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Geochronology and geodynamics of collision magmatism in the Southern Uplands-Down-Longford Terrane in Scotland and Ireland

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Highlights

- Collision magmatism commonplace across the British and Irish Caledonides
- New laser ablation U-Pb zircon data for intrusions in the Southern Uplands, Scotland
- We confirm re-mobilisation of earlier-formed mushes during final emplacement
- Ages of the onset of magmatism consistent with slab rollback and breakoff
- Subsequent emplacement controlled by trans-tensional crustal tectonics

Keywords

Caledonian; Ireland; Magmatism; Scotland; U-Pb Zircon

Abstract

The relationship between igneous activity and the geodynamics of subduction and collision is uncertain in northern Britain and Ireland, which lay on the Laurentian margin during accretion of Baltica and peri-Gondwanan terranes during the Palaeozoic Caledonian - Acadian orogenies. There is uncertainty over the relevance and timing of Iapetus slab breakoff beneath the Laurentian *margin, and modest attention has been paid to typical characteristics of collision magmatism such as its trans-crustal nature and association with ore deposits. The Southern Uplands-Down-Longford terranes were an ocean-continent accretionary complex north of the Iapetus suture and present a natural laboratory to better constrain some of these issues. The terrane is cut by plutonic, hypabyssal, and volcanic complexes whose emplacement overlaps the docking of peri-Gondwanan terranes. Together with existing geochronological data, new laser ablation U-Pb data for the Carsphairn, Bengairn, and Cheviot plutons and the Black Stockarton Moor sub-volcanic complex in Scotland, allow us to identify populations of antecrystic and emplacement-related zircons. The complexes have records of antecrystic zircon growth up to ~30 Myr prior to emplacement, and some plutonic facies could be derived largely from remobilised crystal mushes formerly stored in the lower crust. Crystallisation of magmas began at ~424 Ma as the Iapetus slab began to roll back from the Laurentian margin, permitting melting of the mantle beneath the accretionary complex. The timing of breakoff is potentially constrained to ~420-418 Ma by the cessation of sedimentation in the accretionary prism and the onset of magmatism directly above the suture. Subsequent emplacement from 417 – 387 Ma may be driven by a combination of under-thrusting of Gondwanan lithosphere, sub-lithospheric convection, and a trans-tensional upper plate regime.*

1. Introduction

Continental collision magmatism is a natural continuation of continental arc magmatism spanning the onset of collision, crustal thickening, and slab breakoff, and terminating with the end of continental convergence (Pearce et al., 1990; Turner et al., 1992; Williams et al., 2004; Neill et al., 2015). It is considered inherently important as a contributor to the composition of the continental crust (Annen et al., 2006; Couzinié et al., 2016; Gómez Frutos and Castro, 2023; Neill et al., 2015) and for ore deposits (Richards, 2009). Collision magmatism today occurs primarily in the Alpine-Himalayan Orogen. Sources of melt depend on the thickness, composition, and thermal state of the lithosphere. Significant crustal melting is possible where the crust has been substantially thickened, such as the Himalayas (England and Thompson, 1986), whereas regions such as Turkey, the Caucasus, and Iran are characterised by more extensive melting of lithospheric mantle (Keskin, 2003; Neill et al., 2015). It has become popular to associate this kind of collision magmatism to processes such as lithospheric delamination (e.g., Pearce et al., 1990; Kay and Kay, 1993) and breakoff of the oceanic lithosphere (e.g., Keskin, 2003 and many others). There is also recognition of the importance of crustal stress state in location of magmatism, its depth of emplacement, and ore-forming potential, much as is understood for continental arcs (e.g., Chiaradia et al., 2022; Miles et al., 2016). However, in ancient orogenic belts, we often lack sufficient data to clearly understand the role of different geodynamic processes in the generation, evolution, emplacement, and ore-forming potential of collision magmatism.

The Southern Uplands of Scotland and the equivalent Down-Longford Terrane in Ireland are a natural base to investigate the occurrence of magmatism during the waning stages of continental collision (Fig. 1). A window of magmatic emplacement from ~417 - 387 Myr ago postdates the onset of collision between peri-Gondwanan terranes and Laurentia and is marked by both voluminous plutonism and volcanism (Brown et al., 2008). The magmatism has been of interest previously owing to minor occurrences of mineralisation (e.g., Leake et al., 1977; 1981; 1996; Brown et al., 1979a; Rice et al., 2018). Despite some detailed localised geochronological and geochemical studies (e.g., Fritschle, 2016; Cooper et al., 2016; Miles et al., 2014; Hines et al., 2018 and references therein), our understanding remains somewhat piecemeal. There are geochronological data gaps which make is difficult to fully assess the relationship between igneous activity and the geodynamics of subduction and collision in this region. The aims of this study are therefore to 1) provide detailed geochronological data for three poorly constrained plutons and one sub-volcanic complex in the Southern Uplands of Scotland, and 2) integrate these data across the Southern Uplands-Down-Longford terranes to better constrain patterns of magmatic activity and igneous emplacement, and their relationship with geodynamic processes.

2. Geological Background

2.1. The Iapetus Ocean and Laurentian accretionary prism

The Cambrian to Devonian closure of the Iapetus Ocean and associated tectonism between Laurentia, Baltica, and peri-Gondwanan terranes define the Caledonian and Acadian Orogenies in Britain and Ireland (Archibald and Murphy, 2021; Chew and Strachan, 2014; Lambert and McKerrow, 1976; McKerrow et al., 2000; Oliver et al., 2008). The northern side of the Iapetus Suture in Scotland and Ireland is split into multiple terranes belonging to the Laurentian margin, each experiencing one or more compressional tectonic episodes (Fig. 1). The Northern and Grampian Highland terranes record the Grampian Orogeny (c. 475 – 460 Ma), representing collision of the Midland Valley terrane with the Laurentian margin (Bird et al., 2013). A subsequent Grampian II event (~450 Ma) is recorded in the Northern Highlands terrane and is of debated origin (Dewey et al., 2015; Bird et al., 2013; Milne et al., 2023). The Scandian Orogeny (~435-417 Ma) in the Northern Highlands terrane records oblique terminal docking of Baltica and Laurentia (Strachan et al., 2020).

At the time of the Scandian Orogeny, the Grampian Highlands, Midland Valley, and Southern Uplands-Down-Longford terranes were located far the southwest of the Northern Highlands (Dewey and Strachan, 2003). These terranes did not experience the Scandian Orogeny. The Southern Uplands Terrane in Scotland and the Down-Longford Terrane in Ireland represent an accretionary prism formed on the Laurentian margin (Leggett et al., 1982; Leggett, 1987). The prism started forming due to the initiation of northward subduction of Iapetus oceanic lithosphere beneath the Midland Valley at the end of the Grampian Orogeny (Chew and Strachan, 2014). The prism consists of tracts of largely submarine pelagic sediments, continent-derived siliciclastic material, and volcaniclastic rocks (Stone et al., 2012). The prism is divided into north-verging thrust sheets which formed during subduction processes, to generate successively younger northern, central, and southern belts with their own internal stratigraphy (Leggett et al. 1982). The duration of accretion was from ~455 – ~420 Ma (Brown et al., 2008; Oliver et al. 2008; Chew and Strachan, 2014). Around this time, soft docking of Gondwana-derived terranes began, with a current interpretation being that Ganderia was the first terrane to accrete (Figure 1, e.g., Waldron et al. 2014 and references therein). Ganderia accretion was followed by the Acadian Orogeny (~404 - 394 Ma in Northern England) resulting from accretion of Armorica from the south onto the Laurentian margin (Woodcock et al., 2007; 2019).

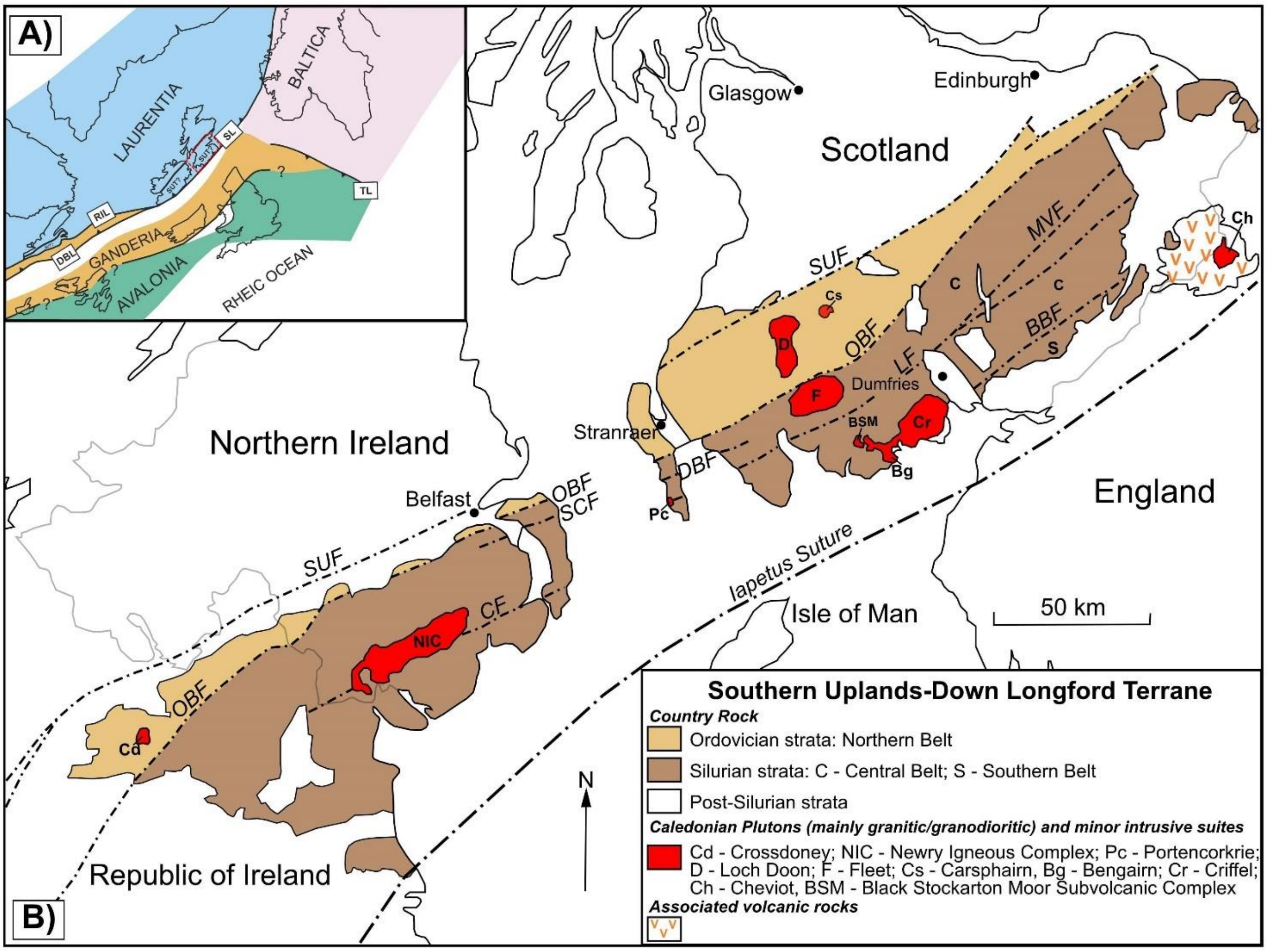


Figure 1. a) Palaeogeographical plate reconstruction at ~420 Ma (not to scale). DBL = Dog Bay Line; RIL = Red Indian Line; SL = Solway Line; TL = Tornquist Line. Adapted from Waldron et al. (2014). b) Locations of Caledonian plutons, intrusive suites, volcanism, and major faults across the Southern Uplands-Down-Longford Terrane. OBF = Orlock Bridge Fault; CF = Cloghy Fault; SUF = Southern Uplands Fault; SCF = Southern Coalpit Bay Fault; DBF = Fault; LF = Laurieston Fault; BBF = Balmae Burn Fault; MVF = Moffat Valley Fault. Adapted from Stone et al. (2012), Miles et al. (2014) and Cooper et al. (2016).

2.2. Collision magmatism and geochronology

The Southern Uplands-Down-Longford terranes are characterised by long-lived intrusive and extrusive magmatism. These were emplaced after termination of sedimentation into the accretionary prism, with typical emplacement ages in the literature ranging from 417 – 387 Ma (see Table 1 and references therein). Such magmatism therefore postdates the onset of collision between Laurentia and peri-Gondwanan terranes but not its termination (Brown et al., 2008; Woodcock et al. 2019). Magmatism is therefore inherently ‘collisional’ in nature and comparable in extent and duration with for example, modern-day Eastern Anatolia and the Caucasus (Keskin, 2003; Neill et al., 2015).

Many plutonic bodies have concentric zonation of facies, attributed to fractional crystallisation and hybridisation processes as well as the emplacement of compositionally distinct magma types (e.g., Thirlwall et al., 1988; Tindle et al., 1988; Anderson et al., 2016). Zircon U-Pb dates and Hf-O isotopes have been used to identify three primary sources of melt: at depth these include the upper mantle and underthrust peri-Gondwanan lithosphere, and at shallower depths, the accretionary prism itself (Miles et al. 2014 and references therein). The zircon record in individual plutons includes extensive antecrystic growth prior to emplacement (Miles et al., 2014; Cooper et al., 2016; Hines et al. 2018). In the case of the Doon pluton in the Southern Uplands, some facies have zircon ages significantly older than field relationships permit, which is interpreted to represent the remobilisation of earlier formed crystal mushes during pluton assembly (Hines et al. 2018), a feature also recognised on the other side of the Iapetus Suture in England (e.g., Woodcock et al., 2019). As the Southern Uplands-Down-Longford and surrounding terranes have a complex and long history of multiple accretion events, magmatism may not have arisen due to a single petrogenetic, geodynamic, or tectonic process (see Section 5.2 and references therein). To explore these relationships, a fuller picture of both the timing of emplacement and the longevity of magmatic systems in this region are necessary. Despite much available geochronology, some intrusive complexes remain undated (Table 1). Others have been dated by whole-rock or mineral Rb-Sr methods (e.g., Thirlwall et al., 1988), which, though providing valuable data about emplacement geochronology, cannot constrain pre-emplacement processes. This study focuses on several intrusive complexes which presently lack U-Pb zircon-based geochronological assessment, including the Carsphairn Pluton, the Black Stockarton Moor sub-volcanic complex and Bengairn pluton, and the Cheviot volcano-plutonic complex, all in the Southern Uplands of Scotland.

Table 1. Summary of the main igneous bodies associated with collision magmatism in the Southern Uplands of Scotland, and the Longford-Down Terrane of Northern Ireland and the Republic of Ireland. Bodies are presented in approximate order of reported emplacement age, with the caveat that some bodies have sufficient data to determine a range of emplacement ages for different facies. Rb-Sr data are reported to x σ, recalculated with the revised ^{87}Rb decay constant of Villa et al. (2015). U-Pb zircon data are reported as weighted mean ^{206}Pb/^{238}U ages as published, except for the Crossdoney pluton, Ireland, where results were re-calculated having originally been published as a weighted mean ^{207}Pb/^{206}Pb age. Abbreviations: SBS = Southern Belt of the Southern Uplands in Scotland. NBS = Northern Belt of the Southern Uplands in Scotland. I = Ireland. E = England. WR = whole rock. Ap = apatite. Bt = biotite. Ms = muscovite. Px = pyroxene. Amp = amphibole. F = feldspar. IMP = ion microprobe. LA-ICP-MS = laser ablation inductively-coupled plasma mass spectrometry. TIMS = isotope dilution thermal ionisation mass spectrometry.

Name	Location and type of magmatism	Rb-Sr-derived time of emplacement	Method	U-Pb zircon-derived time of emplacement	Ages of antecrystic zircon growth	Method	References
Fleet	SBS pluton	399.4 ± 2.1	Bt-Ms WR	387 ± 5 Ma for inner muscovite granite; 410 ± 3 Ma for outer biotite granite	Not apparent	U-Pb IMP	*Halliday et al. (1980); Miles et al. (2014)*
Portencorkrie	SBS pluton	399.9 ± 19.4	WR	395 ± 9 Ma	Not apparent	U-Pb IMP	*Evans (1975); Oliver et al. (2008)*
Doon	NBS pluton	416.5 ± 1.5	Bt-WR	396.7 ± 4.3 Ma for outer quartz diorite; other zones provided older ages interpreted as antecrystic or inherited	~416-424 Ma	U-Pb LA-ICP-MS	*Halliday et al. (1980); Hines et al. (2018)*
Cheviot	SBE+S pluton and volcanic complex	403.8 ± 3.0 403.8 ± 3.9	Bt-WR Bt-Ap	401.4 ± 1.5 Ma for granophyre facies in plutonic complex; 402.6 ± 0.9 Ma for Standrop facies in plutonic complex	~409-418 Ma	U-Pb LA-ICP-MS	*Thirlwall et al. (1988); this study*
Bengairn	SBS pluton	Not analysed	n/a	407.9 ± 1.3 Ma for the outermost of three zones	413 ± 1 Ma	U-Pb LA-ICP-MS	*This study*
Criffell-Dalbeattie	SBS pluton	404.2 ± 2.0	Bt-WR	Range from 408 ± 14 to 412 ± 5 Ma for four zones out of five identified. Overall emplacement age of 410 ± 6 Ma	Not apparent	U-Pb IMP	*Halliday et al. (1980); Miles et al. (2014)*
Newry	SBI plutonic complex	Range from 411.1 ± 3.1 to 407 ± 3.1	WR	Range from 414.0 ± 0.2 to 410.3 ± 0.2 Ma for three zones (Seeconnell, Rathfriland, Newry) and 407.2 ± 0.4 Ma for a younger zone (Cloghoge)	~415 Ma, in Rathfriland zone	U-Pb TIMS	*O'Connor (1975); Cooper et al. (2016)*
Cairnsmore of Carsphairn	NBS pluton	418.6 ± 4.1	WR	Range from 411.7 ± 1.2 to 413.0 ± 1.6 Ma for three zones.	416.9 ± 0.9 Ma for one zone	U-Pb LA-ICP-MS	*Thirlwall et al. (1988); this study*
Crossdoney	NBI pluton	Not analysed	n/a	Granite re-interpreted as 413.2 ± 1.7 Ma (n = 18, MSWD = 0.8).	Not apparent in original study but likely up to 425 Ma as re-interpreted.	U-Pb IMP	*Fritschle (2016), re-interpreted here*
Black Stockarton Moor	SBS sub-volcanic minor intrusions	Not analysed	n/a	417.7 ± 3.1 for the oldest part of the first of three phases. 412.6 ± 3.1 Ma for the youngest part of the first phase, from a single grain. 410.6 ± 1.2 Ma for the second phase. Third phase undated but younger than the Bengairn Pluton (above)	418.3 ± 3.5 Ma during the youngest part of the first phase. 415.3 ± 2.0 during the second phase	U-Pb LA-ICP-MS	*This study*

2.3. Magmatic complexes newly dated in this study

Note that the following descriptions include upwardly-revised Rb-Sr dates following adjustment of the ^{87}Rb decay constant (Villa et al. 2015).

2.4.1. Carsphairn

The Carsphairn Pluton (11 km^2) is located ~7 km northeast of the Doon Pluton in the northern belt of the Southern Uplands (Fig. 2). A previously published Rb-Sr whole rock age of 410.4 ± 4.0 Ma (n = 2) from Thirlwall (1988), is recalculated to 418.6 ± 4.1 Ma. The pluton is compositionally zoned from a less evolved quartz diorite outer zone to a more evolved granitic centre. Previous studies based on whole rock and mineral geochemistry identified fractional crystallisation and hybridisation as important processes in petrogenesis, with Tindle et al. (1988) proposing quartz diorite and granodiorite facies to be genetically related, and the inner fine and coarse granites to be a slightly younger phase of intrusion related to mobilisation of a deeper-stored body of magma.

2.4.2 Black Stockarton Moor

This subvolcanic complex covers >100 km^2, and comprises minor intrusions which predominantly strike NW-SE and NE-SW. Further intrusions are found in an area of ~15 km^2 to the SE of the Bengairn and Criffell-Dalbeattie complexes (Fig. 2). Black Stockarton Moor comprises mafic to intermediate porphyritic dykes, sheets, stocks, and breccia "pipes" categorised by cross-cutting relationships and petrography into three generations (Brown et al., 1979a; Leake and Cooper, 1983; Table 2). The Bengairn pluton is cut by the youngest phase at Black Stockarton Moor, whilst the Criffell-Dalbeattie pluton post-dates the complex (Brown et al., 1979a; Halliday et al., 1980; Leake and Cooper, 1983; Miles et al., 2014). The presence of mineralisation supports shallow crustal emplacement of the complex, recognised as a post-collisional porphyry Cu system during the 1970s - 1990s BGS Mineral Reconnaissance Programme (Brown et al., 1979a; Leake and Cooper, 1983). Five zones of mineralisation are identified (Brown et al., 1979a; Lowry et al., 1997), including the main Cu-sulphide phases (e.g., chalcocite, chalcopyrite, covellite, bornite, enargite) and abundant pyrite, occurring as veinlet- and disseminated-type mineralisation.

2.4.3. Bengairn

As mentioned above, the Bengairn pluton (50 km^2) east of Kirkcudbright is cut by the third generation of Black Stockarton Moor intrusions and by the western margin of the Criffell-Dalbeattie complex (Leake and Cooper, 1983). Miles et al. (2014) treated Bengairn and Criffell-Dalbeattie as a single body, with Bengairn included in the outermost (oldest) part of the complex. Bengairn is compositionally zoned from a quartz diorite marginal zone to a granodiorite core.

2.4.4. Cheviot Pluton and Volcanic Complex

This complex covers ~800 km^2 on the Scotland-England border, providing the largest preserved extent of igneous rocks in the terrane. Cheviot consists of a roughly circular exposure of intermediate to felsic volcanic rocks with ~70 km^2 of plutonic rocks in the centre. The volcanic and plutonic rocks are proposed to be petrogenetically related, with the pluton intruding its own volcanic carapace (Thirlwall, 1979; Al-Hafdh, 1985). Various studies based on mapping, geophysics, petrography, and geochemistry have debated the origins and emplacement of the plutonic rocks (e.g., Jhingran, 1942; Robson and Green, 1979; Lee, 1982; Al-Hafdh, 1985). The plutonic complex has facies ranging from marginal quartz diorite to a granitic core, and its emplacement has been associated with formation of a caldera-like structure (Jhingran, 1942; Al-Hafdh, 1985). Our sampling comes from separate Standrop and granophyre facies according to the original mapping of Jhingran (1942), but Al-Hafdh (1985) thought these belonged to a unified Standrop facies (Table 2). Thirlwall (1988) provided three Rb-Sr dates of 391 ± 8 Ma (whole rock – plagioclase; n = 2), 380 ± 11 (whole rock – clinopyroxene; n = 2), and 395.9 ± 3.8 Ma (biotite, n = 2), for the volcanic rocks, which are corrected to ~399 Ma, ~388, and ~404 Ma, respectively. For the plutonic rocks, a combination of whole rock, biotite, feldspar, and pyroxene Rb-Sr dates ranged from 394.2 ± 5.4 to 398.4 ± 5.1 Ma, corrected to 402.1 ± 5.5 to 406.4 ± 5.2 Ma.

*Table 2. Summary of the studied igneous complexes, with sample names and grid references marked in **bold**. The phase or facies names and their descriptions are adapted from the numbered references as follows: [1]Jhingran (1942); [2]Al-Hafdh (1985); [3]Stone et al. (2012); [4]Brown et al. (1979a); [5]Leake and Cooper (1983); [6]MacGregor, (1937); [7]Tindle et al., (1988).*

Phases	Descriptions and samples	Comments
Cheviot plutonic complex		
Granophyre[1]	Pink, coarse alkali feldspar granite **(CH-02, NT 9232 2047)**	[2]replaced the granophyre with a smaller Hedgehope granodiorite facies. In this interpretation, CH-01 and CH-02 would both belong to the Standrop facies, despite petrographic differences between the two.

Standrop[1]	Pale grey, coarse granodiorite **(CH-01, NT 9369 2041)**	[2]includes a smaller Dunhope granodiorite in the south of the complex prior to intrusion of the Standrop facies.
Marginal[1]	Fine quartz diorite[1]	Intrudes its own volcanic carapace comprising the Cheviot lavas and associated rocks.
Bengairn pluton		
Granodiorite[3, 6]	Fine to medium grained granodiorite[6].	Intruded into the quartz diorite. Heterogeneous throughout. Has been divided into 3 groups based on field, petrographic and chemical characteristics (e.g., G1, G2 and G3 of MacGregor, 1937).
Quartz diorite[3, 6]	Fine to medium plagioclase-dominated quartz monzodiorite **(BG-01, NX 772 538)**	Emplaced first, prior to successive emplacement of granodiorite [6]. Bengairn pluton crosscuts Black Stockarton Moor Phase 1 dykes and is crosscut by Black Stockarton Moor Phase 2 dykes [5].
Black Stockarton Moor sub-volcanic complex		
Phase 3[4, 5]	E-W-trending microgranodiorite dykes[4]	Located S of the complex near Jordieland, are closely related to E-W faulting and cut Phase 1 and Phase 2 dykes [5].
Phase 2[4,5]	NW-SE trending mafic to intermediate dykes[4]	
	NW-SE-trending fine to medium plagioclase-dominated quartz diorite dykes (**SM-01, NX 73293 54509)**	Associated with the Criffel-Dalbeattie pluton. Located around Sheilla Hill and Eldrick Hills and cut Phase 1 dykes[4,5]
Phase 1[4,5]	Plagioclase-dominated fine to medium quartz diorite sheets **(SM-02, NX 72427 54975)**	Located around Black Stockarton Moor through to High Arkland. Sheets likely replace Phase 1 quartz diorite dykes and are cut by Phase 2 dykes [4,5]
	NE-SW-trending mafic dykes[4]	
	NE-SW-trending medium plagioclase-dominated quartz diorite dykes (**JD-01, NX 70947 53015**)	Located to the N of Lochdougan Moor and around Jordieland [5.]
Carsphairn pluton		
Granite[3]	Fine to medium alkali feldspar granite **(CR-05, NX 59450 98020).**	Final phase of emplacement. Coarse grained due to lack of volatile loss and/or slow cooling [7].
Microgranite[3]	Fine to medium plagioclase and quartz dominated granodiorite **(CR-06, NX 59088 97913)**	Includes xenoliths and autoliths of quartz diorite. First pulse of granitic magmatism. Fine grained due to magma chilling and/or volatile loss [7].
Granodiorite[3]	Fine to medium plagioclase feldspar granodiorite **(CR-07, NX 58862 97768)**	Xenoliths and autoliths (quartz diorite) imply granodiorite was emplaced after quartz diorite. Contain microgranite veins suggesting emplacement before microgranite [7].
Quartz diorite[3]	Fine to medium plagioclase feldspar monzogranite **(CR-08, NX 58562 97559).**	Initial phase[7].

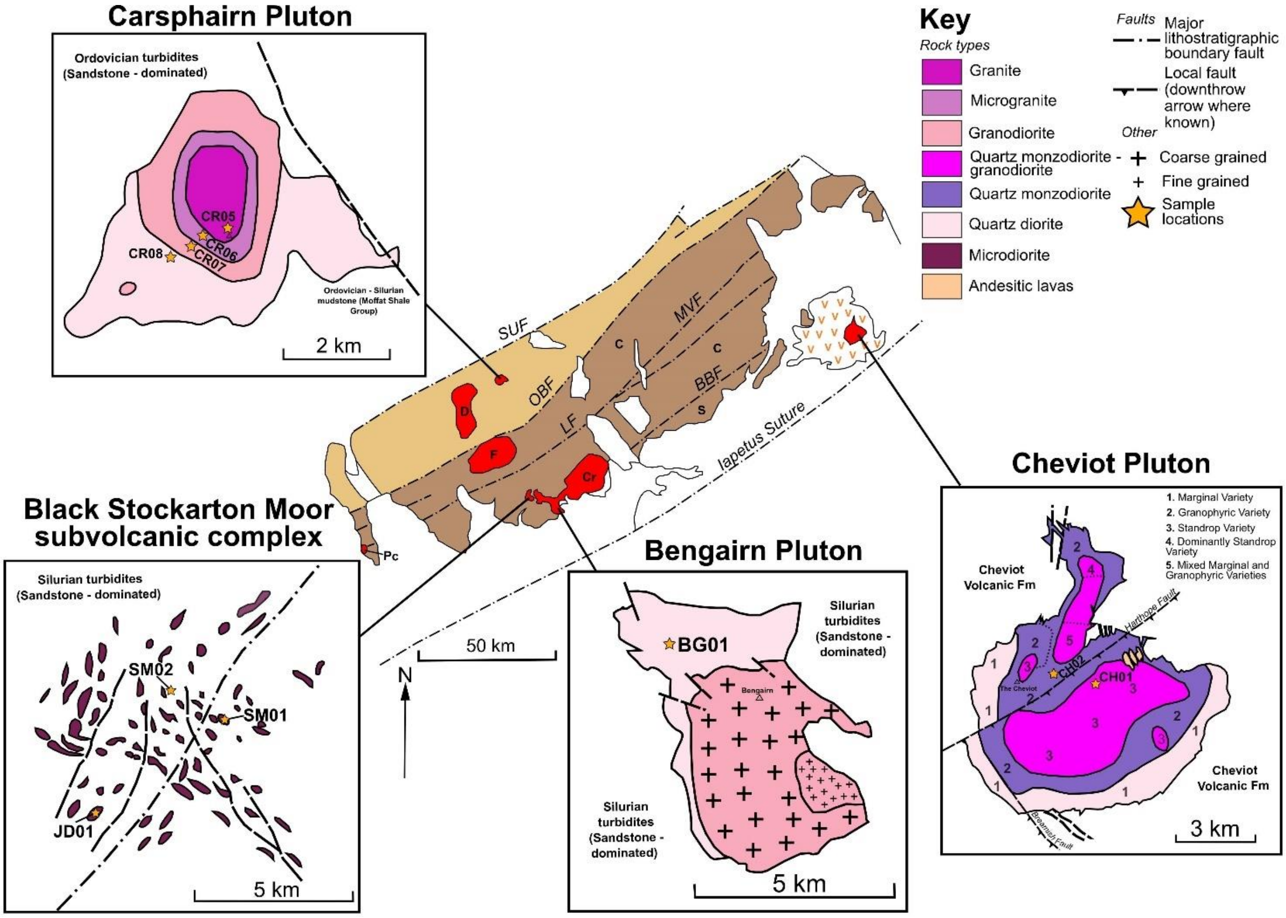


Figure 2. Geological map of the Southern Uplands Terrane showing the Northern and Southern belts. Insets show key lithologies, faults and approximate sample locations for the studied magmatic complexes. See Figure 1 for Southern Uplands-Down-Longford Terrane map key. Adapted from: Hines et al., (2018); Stone et al., (2012); Jhingran (1942) and Al Hafdh (1985).

3. Methodology

New samples for geochronology were taken from the complexes listed in Table 2 during fieldwork in 2022 and 2023. These samples were prepared and analysed at the University of Glasgow. Rock samples were inspected by thin section for the presence of accessory phases. Selected samples were passed through a Retsch jaw crusher and sieved to obtain <500 and >90 µm size fractions. Standard shaking table, heavy liquid and electromagnetic separation methods were then used to isolate zircon crystals for mounting on resin pucks. Back-scatter electron and cathodoluminescence imaging was carried out using a Quanta 200F environmental scanning electron microscope at the Geo-analytical and Electron Microscopy Centre. A sub-set of zircons from each sample were selected for laser ablation - inductively coupled plasma mass spectrometry (LA-ICP-MS) analysis. Site selection on each grain was based on the availability of >30 μm areas devoid of alteration, fracturing, and mineral inclusions.

LA-ICP-MS analysis was conducted using an Australian Scientific Instruments RESOlution laser with 3.3 J fluence and 10 Hz repetition rate. Spot size was 30 μm and ablation lasted 30 s per spot. Material was carried in Ar to a Thermo iCAP-RQ single collector mass spectrometer in the Themochronology facility. Semi-random sample bracketing was used to scatter reference materials throughout each run, with an average of ~4 unknowns between reference materials. The data were generated in 4 separate runs and the raw data were processed in Iolite v.4 (Paton et al., 2011). Data were individually picked over to monitor ^{204}Pb counts, remove components of signals associated with inclusions or Pb loss, and to snip signals where multiple zones were abraded. For each run, data were normalised to reference zircon 91500 (^{206}Pb/^{238}U age of 1062.4 Ma ± 0.4 Ma, Wiedenbeck et al., 1995), with Plešovice (^{206}Pb/^{238}U age of 337.1 ± 0.4 Ma, Slama et al., 2008), Temora2 and NIST-610 as secondary standards. All individual and weighted mean ages are herein reported to 2σ (absolute). The Plešovice reference material produced weighted means of 340.1 ± 1.1 (MSWD = 0.8, n = 18) during analysis of SM02, 338.9 ± 1.2 Ma (MSWD = 1.2, n = 21) during analysis of CH01 and CR05, 340.1 ± 1.8 Ma (MSWD = 1, n = 24) during analysis of CH02, JD01 and CR06; and 336.7 ± 1.3 Ma (MSWD = 0.7, n = 17) during analysis of CR07 and CR08.

4. Results

Rock sample descriptions, marked-up cathodoluminescence images, grain-by-grain descriptions, and full geochronological data are presented in Supplementary Items A-D.

4.1. Cairnsmore of Carsphairn

4.1.1. Sample CR-05, NX 59450 98020.

The sample is a granite of 0.1 – 3 mm grain size. Alkali feldspar dominates with lesser quartz, plagioclase and biotite, and accessory apatite and zircon. There is sericite and epidote after plagioclase and alteration of biotite to chlorite. Of 120 zircon grains mounted for CR-05, 66 were imaged and 53 of these deemed suitable for laser ablation. Grains range from ~100 – 350 μm in length, are dominantly subhedral, and exhibit complex internal structures along with ubiquitous but variable fracturing and mineral inclusions. In most grains, cores are very large with smaller rims. Most of the cores have complex shapes and are either un-zoned or contain faint oscillatory or sector zoning. Evidence of resorption is present on a few cores. The rims typically exhibit faint oscillatory zoning with a few examples of sector zoning. All grains have a dark, un-zoned outermost layer of variable width, which for some grains represents the only overgrowth onto the core.

82 points over 53 grains were analysed for CR-05 and concordant points typically plot between $^{206}Pb/^{238}U$ ages of ~395 – 420 Ma (Fig. 3a). A total of 56 points from 38 grains have >98% concordance. The youngest 6 of the remaining points plot visibly younger than the rest of the concordant dataset, between ~360– 397 Ma on the Wetherill concordia diagram and are interpreted as being affected by partial Pb loss. The oldest 7 points also appear visibly older than the rest of the concordant dataset, with $^{206}Pb/^{238}U$ ages between ~419 – 426 Ma. The weighted mean $^{206}Pb/^{238}U$ age of the remaining points is **411.9 ± 1.0 Ma (n = 43, MSWD = 1.0), which we interpret as representing emplacement** (Fig. 3b). 5 of the oldest 7 points excluded from the mean age calculations plot between ~ 419 Ma – 421 Ma and are texturally like the emplacement-related points. These are interpreted as antecrystic. The oldest 2 points with $^{206}Pb/^{238}U$ ages of 426.1 ± 11.1 Ma and 426.7 ± 6.8 Ma have quite large uncertainties but may predate the end of deposition into the Southern Uplands accretionary prism. These points are interpreted as xenocrystic.

4.1.2. Sample CR-06, NX 59088 97913.

This rock is a granodiorite of 0.2 – 2.5 mm grain size. Plagioclase and quartz dominate with lesser alkali feldspar and biotite, and alteration of feldspar and biotite to sericite and clay. Accessories include zircon ± apatite. Of 110 grains mounted for CR-06, 66 were imaged and 42 deemed suitable for laser ablation. Complex internal textures are observed in most grains, which typically range from ~100 – 350 µm and up to 800 µm. Most grains are subhedral with large cores and small rims, and modest amounts of fracturing and associated alteration. Cores are typically angular, with partial resorption in some. Around half the cores are not zoned, but otherwise zoning is faint and of sector or oscillatory type. Rims have typically faint and patchy oscillatory zoning, with occasional sector zoning. As with CR-05, an outermost dark rim of variable width is present in most grains, in some cases representing the only overgrowth around large cores.

72 points over 42 grains were analysed for CR-06 with many points plotting with $^{206}Pb/^{238}U$ ages between ~390 – 424 Ma (Fig. 3c). 53 points from 34 grains are >98% concordant. The youngest several points are visibly younger than the rest of the concordant points and are suspected of having experienced partial Pb loss. The weighted mean $^{206}Pb/^{238}U$ age of most remaining points is **413.1 ± 1.6 Ma (n = 44, MSWD = 0.85) which we interpret as representing emplacement** (Fig. 3d). We

were unable to identify any antecrystic zircon growth. The oldest 6 points, which were omitted from the weighted mean age, form three small clusters with $^{206}Pb/^{238}U$ ages of ~440 – ~447 Ma, ~492 – ~500 Ma and ~1447 – 1451 Ma. These points came from the core of grains with evidence of resorption, and we interpret them as xenocrystic.

4.1.3. Sample CR-07, NX 58862 97768.

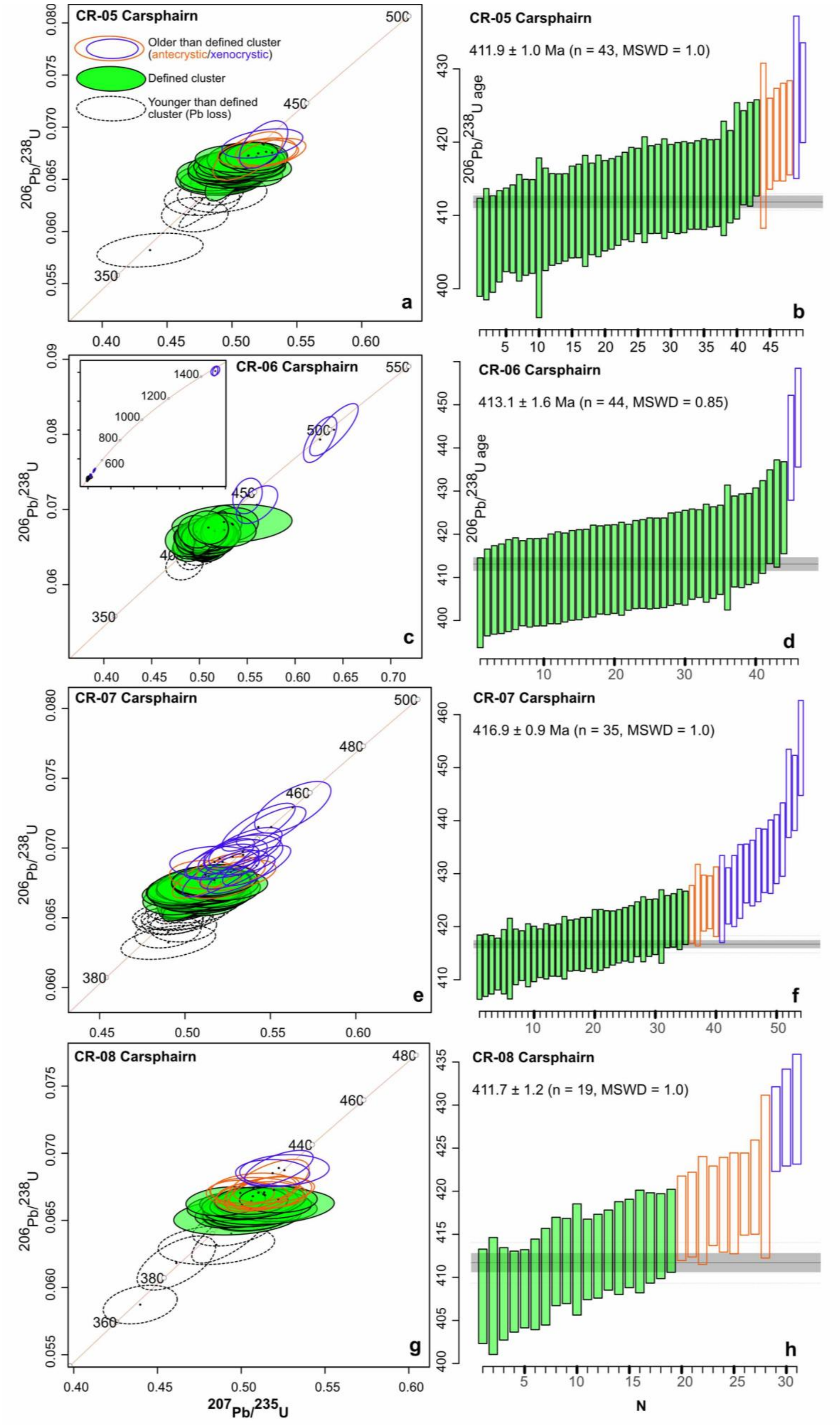
The sample is a plagioclase-dominated granodiorite of 0.1 – 3 mm grain size with subordinate biotite, quartz and alkali feldspar and accessory zircon and titanite. Plagioclase and biotite are partially replaced with sericite, epidote, chlorite, and clay. Of 102 grains imaged, 70 were suitable for laser analysis, being mostly subhedral and ~110 – 375 µm in length, with a few reaching 675 µm. Most grains have moderate fracturing and associated alteration. Many of the grains have complex cores exhibiting some evidence of resorption and only faint and patchy oscillatory zoning. Rims have very faint oscillatory zoning and occasional sector zoning. A dark un-zoned outer layer of variable width is present in most grains.

100 points across the 70 grains were lasered, typically producing $^{206}Pb/^{238}U$ ages between ~395 - ~453 Ma (Fig. 3e). 64 points from 50 grains were >98% concordant. Of these, the 10 youngest grains between ~395 - ~411 Ma are visibly younger and spread out on the Wetherill plot, potentially having experienced partial Pb loss. The 19 oldest points are also visibly spread out from a dominant cluster and have $^{206}Pb/^{238}U$ ages from ~422 - ~453 Ma. The remaining 35 concordant points produce a **weighted mean $^{206}Pb/^{238}U$ age of 416.9 ± 0.9 Ma (n = 35, MSWD = 1.0)** (Fig. 3f). Despite field evidence implying that there is a close spatial and temporal relationship between the four samples from Carsphairn, this age is beyond the uncertainty of the others. The 19 points older than this age include 5 with $^{206}Pb/^{238}U$ ages between ~422 Ma – 425 Ma which have similar textures and Th/U ratios to those points in the ~416.9 Ma cluster. These are interpreted as antecrystic. The oldest 14 points, with $^{206}Pb/^{238}U$ ages of ~425 Ma – ~453 Ma, are interpreted as xenocrystic.

4.1.4. Sample CR-08, NX 58562 97559.

CR-08 is a monzogranite of 0.1 – 3 mm grain size. Plagioclase dominates with minor biotite, alkali feldspar, quartz and clinopyroxene and accessory apatite and zircon. Plagioclase and biotite are replaced with sericite, chlorite, epidote, and clay. From 105 imaged grains of CR-08, 54 grains were suitable for laser ablation, the high rejection rate being due to extensive fracturing. Selected grains were subhedral, typically ~100 – 275 µm in length, with larger cores than rims. Almost all grains have localised loss of zonation or bright patches related to fractures. The cores in CR-08 are typically complex with evidence of resorption and contain mostly faint and patchy oscillatory zoning. Rims also have faint and patchy oscillatory zoning. As with the other samples from Carsphairn, some of the overgrowths are defined only by a narrow un-zoned dark rim.

From the 54 grains, 75 points were lasered and 35 points from 30 of these grains have concordance >98%. These points typically plot between $^{206}Pb/^{238}U$ ages of ~390 - ~429 Ma (Fig. 3g). The youngest 5 of these points are noticeably younger than the rest of the dataset, lying between ~367 – ~403 Ma, and likely experienced Pb loss. A further 12 points are visibly older than the others, plotting between ~417 - ~429 Ma. The weighted mean $^{206}Pb/^{238}U$ age of remaining points is **411.7 ± 1.2 Ma (n = 19, MSWD = 1.0), which we interpret as the age of emplacement** (Fig. 3h). Of the oldest 12 points, 9 have $^{206}Pb/^{238}U$ ages of ~417 - ~422 Ma with similar textural characteristics and overlapping Th/U ratios to the emplacement-related population. These are interpreted as antecrystic. The remaining 3 older points have $^{206}Pb/^{238}U$ ages of 427.2 ± 4.9, 428.5 ± 5.6, and 429.5 ± 6.4 Ma, all older than the termination of sedimentation in the accretionary prism, so are interpreted as xenocrystic.


CR-05 Carsphairn
Older than defined cluster
(antecrystic/xenocrystic)
Defined cluster
Younger than defined cluster (Pb loss)
411.9 ± 1.0 Ma (n = 43, MSWD = 1.0)
CR-06 Carsphairn
413.1 ± 1.6 Ma (n = 44, MSWD = 0.85)
CR-07 Carsphairn
416.9 ± 0.9 Ma (n = 35, MSWD = 1.0)
CR-08 Carsphairn
411.7 ± 1.2 (n = 19, MSWD = 1.0)
$^{206}Pb/^{238}U$
$^{207}Pb/^{235}U$
$^{206}Pb/^{238}U$ age
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385

Figure 3. Summary geochronological data for the Carsphairn Pluton

4.2. Black Stockarton Moor

4.2.1. Sample JD-01, Black Stockarton Moor Phase 1 dyke, NX 70947 53015.

The sample is a quartz diorite of 2 - 3 mm grain size, dominated by plagioclase with subordinate amphibole, quartz, and alkali feldspar, and accessory apatite, monazite, and zircon. There is replacement of feldspar with chlorite and calcite. Out of the 86 grains imaged, only 22 of these were suitable for analysis due to heavy fracturing and alteration. Most grains are subhedral and range from ~63-275 µm. The relative core to rim size is variable, with complex internal structures including loss of zoning and extensive alteration most closely associated with fractures or inclusions. Where visible, though often patchy, zoning is oscillatory in the zircon cores. In most concordant grains, cores are rounded and the core to rim boundary is clearly defined. In the discordant grains, the core to rim boundary is more poorly defined and cores are generally irregularly shaped. In concordant grains, most overgrowths contain heterogenous oscillatory or irregular zoning and occasionally faint sector zoning. 34 points were analysed over the 22 grains, with a minority having >98% concordance. A cluster of overlapping points plot at $^{206}Pb/^{238}U$ ages of ~400 Ma – ~420 Ma (Fig. 4a). The youngest 3 points plot along a possible Pb loss trend. A weighted mean $^{206}Pb/^{238}U$ age of the remaining points is **417.7 ± 3.1 Ma (n = 12, mean square weighted deviation (MSWD) = 1.2)** (Fig. 4b).

4.2.2. Sample SM-02, Black Stockarton Moor Phase 1 sheet; NX 72427 54975.

This is a plagioclase-dominated quartz diorite of < 0.1 - 2.5 mm grain size. There are smaller proportions of amphibole, quartz, and alkali feldspar with accessory apatite, titanite and zircon and secondary sericite, chlorite, and calcite. 70 zircon grains were mounted, with 22 suitable for laser ablation. Most analysed grains are ~75 – ~275 µm in length and subhedral. There is poor definition of the core-rim boundary, but cores generally appear to be larger than any rims. Most analysed grains are unfractured and the sub-set of fractured grains often contain localised alteration. Where defined, cores in SM02 have complex shapes, some evidence of resorption, and are texturally heterogenous with much sector zoning. Rims typically contain patchy oscillatory zoning.

41 points over the 22 grains were analysed with $^{206}Pb/^{238}U$ ages ranging from ~390 Ma – ~420 Ma (Fig. 4c). There were 21 points with >98% concordance from 13 grains. The 4 youngest points in

the concordant dataset are visibly younger than the others and come from complex, altered grains. 14 of the remaining points provided a weighted mean $^{206}Pb/^{238}U$ age of **410.6 ± 1.2 Ma (n = 14, MSWD = 1.1), interpreted as the age of emplacement**, leaving out 3 older points which did not overlap with the final weighted mean age (Fig. 4d). These are interpreted as being recycled, perhaps from earlier in Phase 1 magmatism. The final emplacement age is only slightly older than the Bengairn Pluton, considered by Brown et al. (1979a) and Leake and Cooper (1983) to be penecontemporaneous with the second phase of Black Stockarton Moor intrusions.

4.2.3. Sample SM-01, Black Stockarton Moor Phase 2 dyke; NX 73293 54509.

This sample is a fine to medium grained quartz diorite of 0.1 - 2.5 mm grain size. Plagioclase dominates with minor amphibole, quartz, and alkali feldspar. Zircon is the only accessory phase. Sericite, chlorite, calcite, and epidote form the alteration assemblage. 65 grains were mounted but only 3 were identified as suitable for laser ablation, others being highly fractured, altered, or too complex and small for further analysis. Most grains are euhedral to subhedral with small cores and larger rims. The three selected grains range from ~130 – 310 µm in length, but the others are smaller than these. Most cores in SM-01 are rounded, occasionally resorbed, and vary from having no to very faint oscillatory or irregular zoning. The rims all have oscillatory zoning.

9 points from the 3 suitable grains were lasered, with 3 having >98% concordance and $^{206}Pb/^{238}U$ ages of 404.1 ± 4.1 Ma, 412.6 ± 3.1 Ma, and 418.1 ± 3.5 Ma (Fig. 4e). A further inherited point has an age of ~890 Ma. The concordant Devonian points have a weighted mean $^{206}Pb/^{238}U$ age of 414.1 ± 2.2 Ma (n = 3, MSWD = 8.5) which is outside acceptable statistical bounds (Wendt and Carl, 1991; Spencer et al., 2016). Given that SM-01 is thought to belong to the second generation of Black Stockarton Moor intrusions, our preferred interpretation is that the point dated to **412.6 ± 3.1 Ma best represents the time of emplacement**, with the younger point potentially being affected by slight Pb loss, given it is younger than the accepted age of the Bengairn pluton (Fig. 4f) Section 4.3, below). The older point may be recycled from earlier magmas belonging to the first generation of Black Stockarton Moor intrusions, given it overlaps with the age of JD-01.

4.3. Bengairn Pluton, BG-01, NX 772 538

This rock is a quartz monzodiorite of < 0 .3 – 5 mm grain size, dominated by plagioclase, with subordinate alkali feldspar, amphibole, biotite, quartz and titanite. Accessory phases are apatite, titanite, zircon, and monazite. Secondary sericite, calcite, chlorite, and clays are present. 200 zircon grains were mounted for BG-01 but only 31 were suitable for laser ablation owing to extensive fracturing and alteration, perhaps associated with a fault striking parallel to Phase 2 of the Black Stockarton Moor intrusions (BGS Map, 1993). Zircons range from 40 – 138 µm and are dominantly euhedral. Large cores and smaller rims can be distinguished, the mostly euhedral cores showing irregular or patchy oscillatory or sector zoning with some evidence of resorption. The rims display prominent oscillatory and occasional sector zoning.

59 points from these 31 grains were lasered, with 38 points having >98% concordance and $^{206}Pb/^{238}U$ ages between ~380 Ma – 430 Ma (Fig. 4g). The youngest 9 points formed a spread towards younger ages, likely resulting from Pb loss. Omitting the youngest 9 points left a concordant dataset of 29 points with a weighted mean of 412.1 ± 1.8 Ma (n = 29, MSWD = 5). The wide spread of points and high MSWD indicate they do not belong to a single population. The two oldest points have $^{206}Pb/^{238}U$ ages of 425 ± 5 Ma and 426 ± 6 Ma, respectively, pre-dating termination of sedimentation in the Southern Uplands accretionary prism. These are considered xenocrystic. Removing these points generates one statistical outlier in the remaining dataset, resulting in an improved age of 411.1 ± 1.4 Ma (n = 26, MSWD = 2.7). The high MSWD still indicates over-dispersion of the dataset (Wendt and Carl, 1991; Spencer et al., 2016), so it is likely that the oldest remaining points are antecrystic and do not represent the time of emplacement. Iteratively removing the older points from the weighted mean age produces a $^{206}Pb/^{238}U$ age of **407.9 ± 1.3 Ma (MSWD = 1.0, n = 11), which we take to represent emplacement** (Fig. 4h). The older points define an age of 413.0 ± 1.0 Ma (n = 18, MSWD = 1.1), beyond the uncertainty of the emplacement age. Coming from texturally similar zircons to the emplacement-related points, these older points are interpreted as antecrystic.

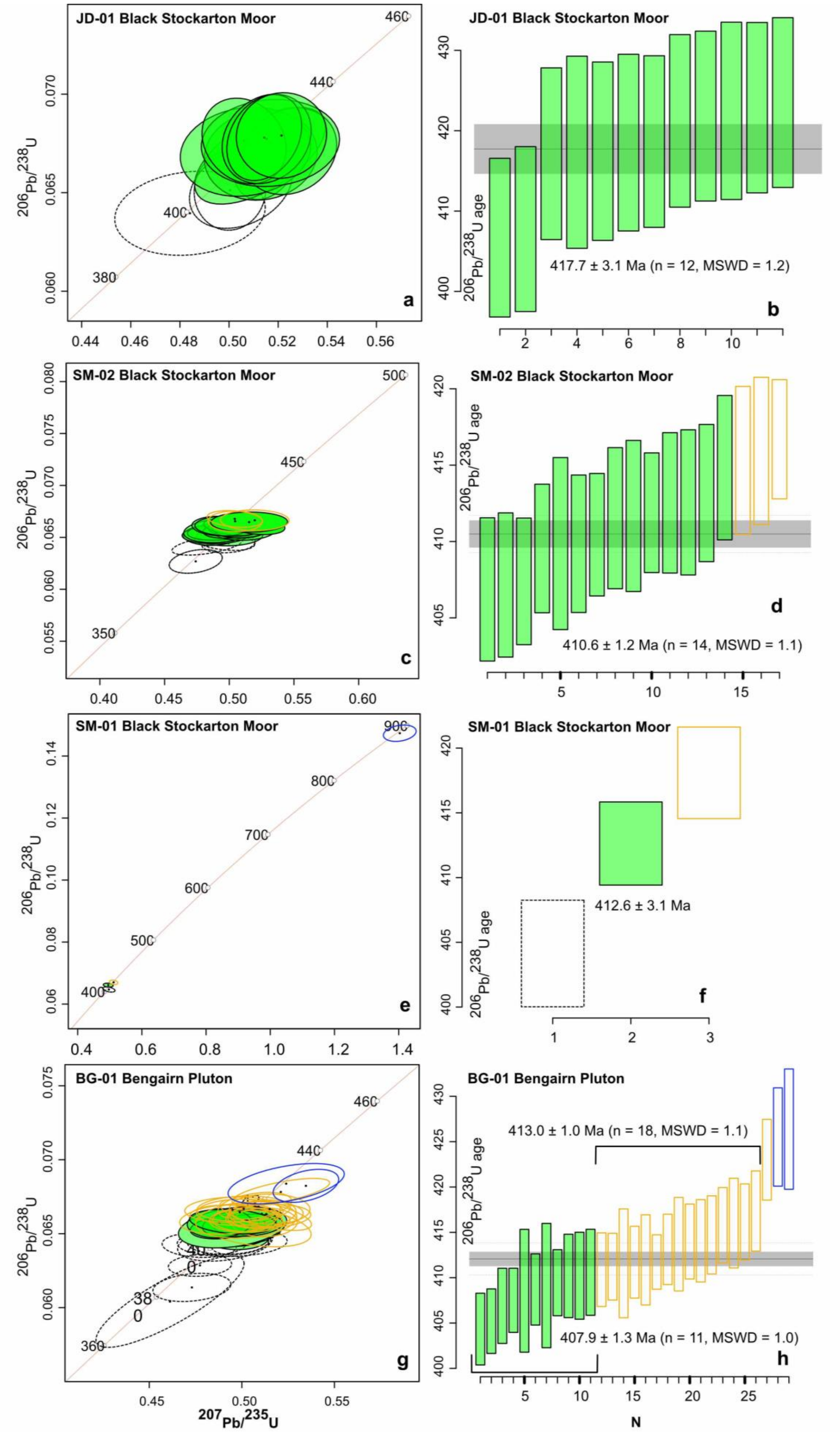
JD-01 Black Stockarton Moor
417.7 ± 3.1 Ma (n = 12, MSWD = 1.2)
SM-02 Black Stockarton Moor
410.6 ± 1.2 Ma (n = 14, MSWD = 1.1)
SM-01 Black Stockarton Moor
412.6 ± 3.1 Ma
BG-01 Bengairn Pluton
413.0 ± 1.0 Ma (n = 18, MSWD = 1.1)
407.9 ± 1.3 Ma (n = 11, MSWD = 1.0)
$^{206}Pb/^{238}U$
$^{207}Pb/^{235}U$
$^{206}Pb/^{238}U$ age
N
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Figure 4. Summary geochronological data for the Black Stockarton Moor sub-volcanic complex and the Bengairn pluton. Symbology as per Figure 4.

4.4. Cheviot

4.4.1. Sample CH-01, NT 9369 2041.

This sample is from the Standrop facies (Table 2), a quartz monzonite of 0.5 – 4 mm grain size, dominated by alkali feldspar with subordinate plagioclase, biotite, quartz, and tourmaline. Accessories include apatite and zircon. There is sericitisation of feldspars and replacement of biotite with chlorite, epidote, and clay. 117 zircons were mounted of which 54 were suitable for laser ablation. Most grains are subhedral, from ~95-350 μm in length, with distinctive cores and rims. In most grains, the core is larger or of equal size to the rims. Many of the grains are lightly fractured with alteration spatially related to those fractures, and there are many small inclusions throughout all grains. Cores in CH-01 vary from un-zoned to faintly zoned, with both oscillatory and sector zoning patterns. Most cores exhibit complex shapes and extensive resorption. Rims are dominated by oscillatory zoning with some sector and convolute zoning also present. 97 points from the 54 grains were lasered and most are >98% concordant between ~390 Ma - ~418 Ma (Fig. 5a). The concordant points defined a weighted mean $^{206}Pb/^{238}U$ age of 402.0 ± 1.1 Ma (n = 62, MSWD = 1.9), with the high MSWD indicating over-dispersion of the dataset. The removal of the 3 youngest points which are slightly younger than the main cluster of points, and may have resulted from partial Pb loss, as well as the 5 oldest points which are suspected of being antecrystic, provides a weighted mean $^{206}Pb/^{238}U$ age of **402.6 ± 0.9 Ma (n = 49, MSWD = 1.0) which we consider represents the time of emplacement** (Fig. 5b). The oldest 5 concordant points, spanning $^{206}Pb/^{238}U$ ages between ~409 - ~418 Ma, are interpreted as antecrystic, sharing similar textures to the emplacement-related population.

4.3.2. Sample CH-02, NT 9232 2047.

This sample is from a northernly tributary of the Harthope river, part of the Hedgehope granophyre facies of Jhingran (1942) (Table 2). The rock is a syenogranite of 0.1 – 5 mm grain size, consisting dominantly of alkali feldspar, subordinate quartz, biotite and plagioclase and accessory apatite and zircon. There is sericitisation of feldspars and replacement of biotite with chlorite, epidote, and clay. The petrography of CH-02 is distinct from that of CH-01, which supports their distinction as separate facies. 124 zircons were mounted for CH-02 of which 56 were suitable for laser ablation.

Most grains are subhedral, ranging from ~150 – 300 µm in length. Cores and rims are observed in most grains, though the relative core to rim size varies. Most grains are very lightly fractured, with some associated alteration. Cores have complex shaped with few euhedral cores, and are mostly poorly zoned, through some faint oscillatory and sector zoning patterns are observed. The core-rim boundaries are sometimes affected by alteration and resorption. Rims are dominated by oscillatory zoning with some sector and convolute zoning also present. 92 points over 56 grains were analysed, with 55 points from 35 grains having >98% concordance. Most concordant points have $^{206}Pb/^{238}U$ ages between ~382 – ~414 Ma, with the largest cluster of points at ~400 Ma (Fig. 5c). 5 of the youngest concordant points were suspected of Pb loss, being slightly younger than the others, and omitted from the final age calculation. The final weighted mean $^{206}Pb/^{238}U$ age of **401.4 +/- 1.5 Ma (MSWD = 0.8, n = 50) is taken as representative of emplacement** (Fig. 5d). Neither antecrystic nor xenocrystic zircon could not be identified in CH-02.

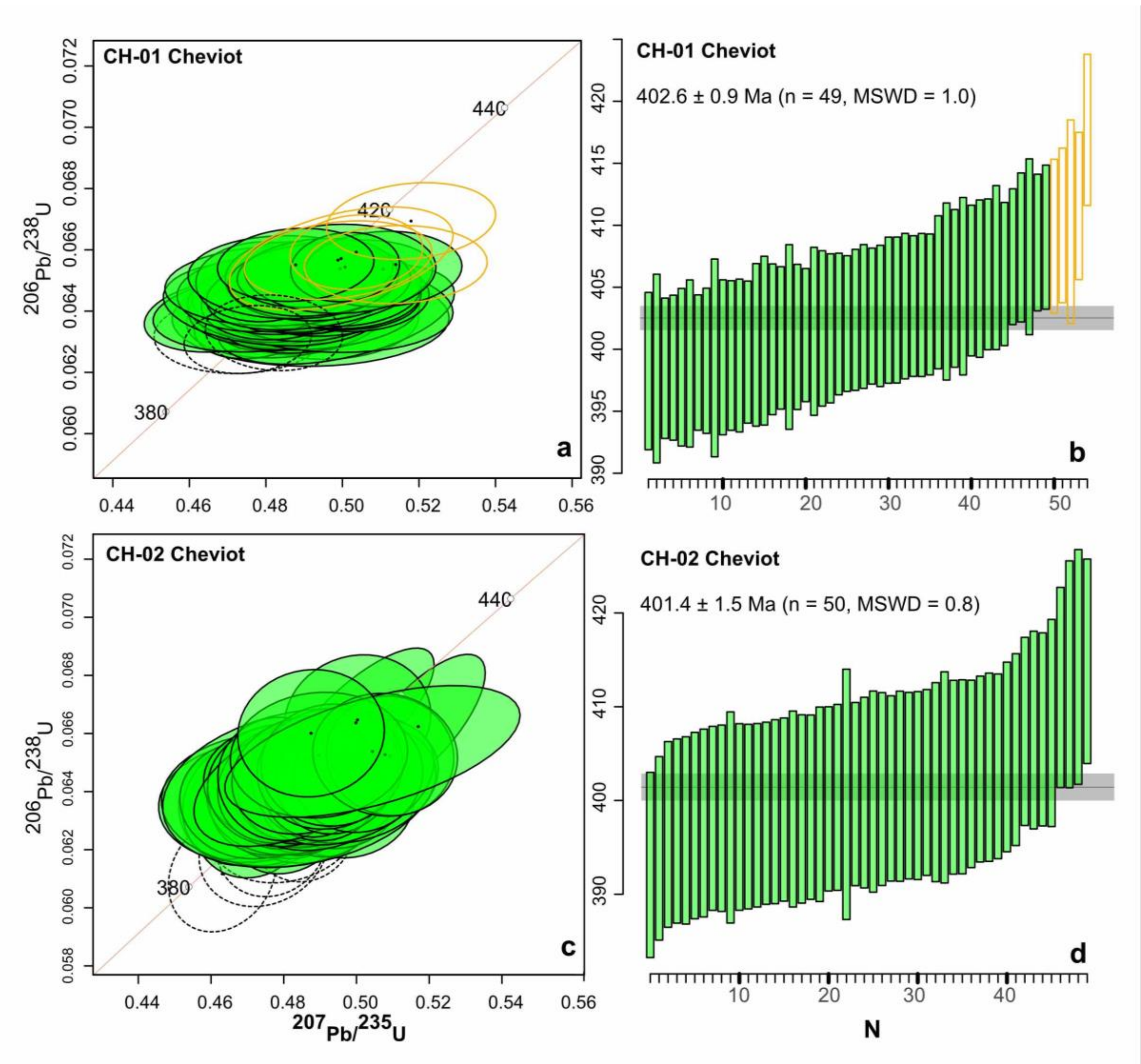

Figure 5. Summary geochronological data for the Cheviot pluton. Symbology as per Figure 4.

5. Discussion

5.1. Interpretation of the new U-Pb results

A visual summary of the age range of interpreted antecrystic growth and emplacement-related zircon ages across the Southern Uplands-Down-Longford terranes is provided in Figure 6. Below, we assess the local interpretation of these results, before considering their integration across the terrane. It should be noted that U-Pb zircon data across the terranes have been obtained from a combination of low-precision but high-volume LA-ICP-MS (e.g., *this study*), higher-precision ion probe (e.g., Miles et al., 2014) and selective high-precision isotope dilution (e.g., Cooper et al., 2016) methods. The likelihood of obtaining representative age spectra from magmatism in long-lived igneous complexes is inversely related to the selectivity of the sampling method (e.g., Spencer et al., 2016; Milne et al., 2023). Where complexes have been analysed by measurement of few grains by isotope dilution, with the specific goal of precisely constraining the age of emplacement, it is possible that antecrystic zircon populations have been missed.

5.1.1. Cairnsmore of Carsphairn

Tindle et al. (1988) argued on geochemical grounds that Carsphairn was emplaced in 4 stages, starting with the outermost quartz diorite (CR08, our date 411.7 ± 1.2 Ma), evolving by fractionation to the inner granodiorite (CR07, our date 416.7 ± 0.9 Ma), and overprinted by a more evolved melt which originated at depth, producing the inner fine-grained granite (CR06, our date 413.1 ± 1.6 Ma) then the innermost coarse-grained granite (CR05, our date 411.9 ± 1 Ma). Whilst three ages are within analytical error of each other, the age of 416.9 ± 0.9 Ma from the inner granodiorite is inconsistent with Tindle et al.'s petrogenetic interpretation and overlaps with the original Rb-Sr dating of Thirlwall et al. (1988). We suspect that this age records crystallisation of the granitoid magmas within a deeper crustal mush. A similar finding has been obtained from the Doon pluton by Hines et al. (2018). If the outer quartz diorite was parental to the inner granodiorite as Tindle et al. (1988) propose, then a complicated history of magma evolution may be required. A body of mafic magma in the lower crust would have to partially evolve to form a granodiorite magma, including zircon crystallisation in the latter, at ~417 Ma. The two magmas could then be emplaced separately, the less-evolved outer magma undergoing further zircon crystallisation to provide the emplacement age of ~412 Ma. The inner granodiorite would have to not crystallise further zircon to the extent that we could detect it with traditional mineral separation and laser ablation analysis techniques, nor would Rb-Sr isotopes be reset. The final emplacement age of ~412

Ma for Carsphairn is nevertheless substantially older than the ~397 Ma age of the nearby Doon pluton, perhaps indicating a >10 Myr history of motion on the Leadhills Fault (c.f., Hines et al., 2018).

5.1.2. Black Stockarton Moor and Bengairn

Because of the small size of these bodies and their comparatively mafic compositions, it is possible that some zircon populations from Black Stockarton Moor are entirely antecrystic. Field evidence indicates that emplacement occurred in the order JD-01 > SM-02 > SM-01, and the above ages of ~417 (moderate certainty), ~411 (higher certainty), and ~412 (single point, low certainty) Ma are not inconsistent with this. However, the gap of ~6 Myr between JD-01 and SM-02 within Phase 1, and of ~4 Myr between SM-01 of Phase 2 and the supposedly contemporary Bengairn Pluton (~408 Ma) indicate more precise dating of magmatism is required. Overall, magmatism occurred from as early as 417.7 ± 3.1 Ma from an antecrystic zircon in JD-01 and finished after ~408 Ma with undated intrusions which cut the Bengairn pluton. Miles et al. (2014) included the Bengairn pluton within the Criffell-Dalbeattie body as its outermost Zone 1, to which they assigned a weighted mean $^{206}Pb/^{238}U$ ion microprobe age of 408 ± 14 Ma (n = 9). The date for Zone 1 in Miles et al. (2014) was collected from the far north of the pluton, ~20 km northeast of the proposed contact with Bengairn, and still further from our sampled location with an age of 407.9 ± 1.3 Ma. Overall, magmatic activity in this cluster of plutonic and sub-volcanic activity appears to have been long-lasting, for at least ~10 Myr, from ~418 to ~408 Ma. Sequential isotope dilution methods on emplacement-related zircons are required to further improve ambiguity over age relationships in this area.

5.1.3. Cheviot

Both ages overlap with existing Rb-Sr data for the pluton and the volcanic complex (Thirlwall et al., 1988). The two ages overlap within 2σ uncertainty of each other and just within 1σ. CH-02 may be part of a slightly younger phase of the pluton, consistent with the original mapping of Jhingran (1942) of a younger ‘granophyre’ distinct from the older Standrop facies of both Jhingran (1942) and Al-Hafdh (1985). The samples themselves are petrographically distinct (Supplementary Item A). The strong clustering of laser ablation data from both samples implies the complex may be ideal candidates for high resolution isotope dilution analysis to further constrain emplacement history. Cheviot has previously been associated with minor epithermal and porphyry-type enrichment in Cu, Mn, Ba, Pb, Zn and U mineralisation (Cameron, 1988), so higher resolution geochronology and re-assessment of metal abundances in each phase are certainly merited.

5.2. Relationship to the end of Iapetus subduction

There are different interpretations for the tectonic setting of magmatism. Past work has implicated subduction (e.g., Thirlwall, 1982; Oliver et al., 2008), as well as extensional tectonics (Dewey and Strachan, 2003; Brown et al., 2008; Miles et al., 2014; Hines et al., 2018), lithospheric delamination (e.g., Freeman et al., 1988; O'Reilly et al., 2012), and under-thrusting of Gondwanan lithosphere (Miles et al., 2014 and references therein). The timing and effect of Iapetus slab breakoff is especially problematic. Hines et al. (2018) envisaged break-off at ~430 Ma, meaning all the magmatism was post-subduction in nature (e.g., Richards, 2009). At the other temporal extreme, Oliver et al. (2008) argued for an episode of divergent double subduction lasting until ~400 Ma beneath terranes north and south of the Iapetus suture. Oliver et al. (2008) then proposed simultaneous break-off of the Iapetus slabs at ~400 Ma. This timing implies that any earlier magmatism in the Southern Uplands-Down-Longford terranes must have been generated in a continental arc. Breakoff prior to the end of sedimentation in the accretionary prism, indeed prior to the onset of continental collision, is inconsistent with the typical occurrence of breakoff some millions of years after continental collision begins (c.f. van Hunen and Allen, 2011). A continental arc setting, with break-off only occurring by 400 Ma, is also difficult to reconcile with the onset of magmatism beneath Cheviot by ~418 Ma, directly above the suture. If Cheviot is derived from melting of mantle sources, then the onset of magmatism by ~418 Ma implies the absence of a slab beneath this site, given the negligible arc-trench gap.

Our data underscore the work of Hines et al. (2018) and Miles et al. (2014) in emphasising that the antecrystic zircon populations imply that there may be ~30 Myr between partial melting first occurring at any given site, and the eventual emplacement of igneous bodies into the shallow crust. We therefore state that magmatism *started* at ~424 Ma (Table 1, Figure 6). Although magmatism did not apparently commence until ~414 Ma at some locations, the caveat is that not all complexes have yet been analysed using large numbers of in-situ zircon analyses. Nevertheless, as we understand it so far, there is no relationship between the *onset* of magmatism and distance *along* the Iapetus suture (Fig. 6, left). However, it is possible to discern a younging pattern *towards* the suture (Fig. 6, right).

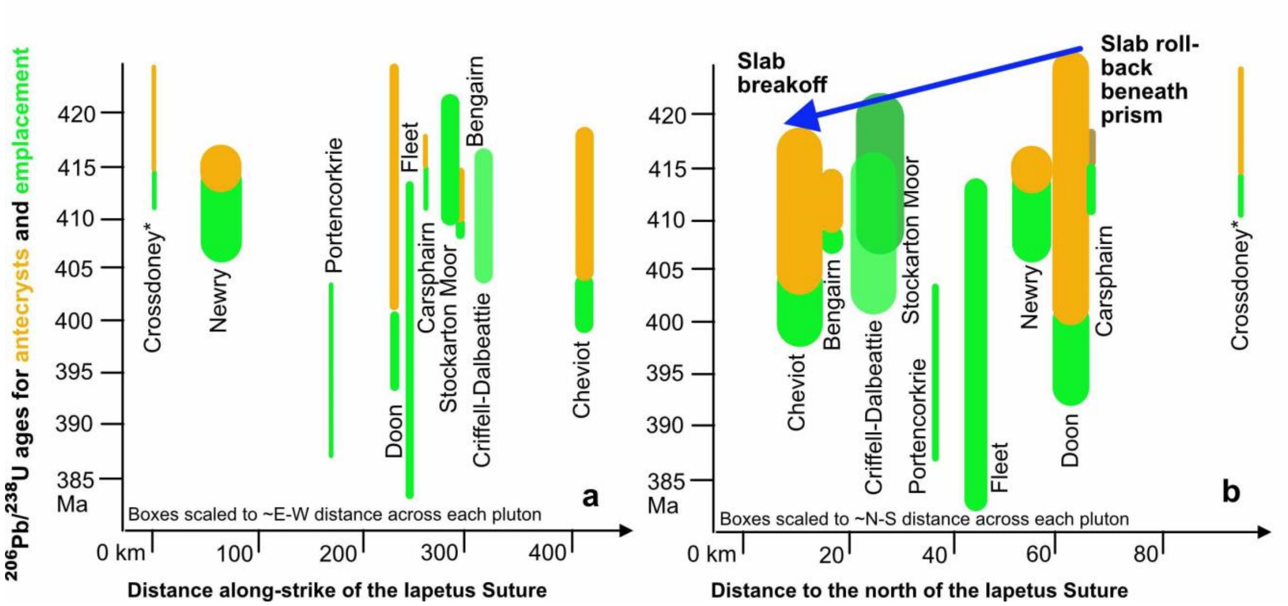

Figure 6. Calculated emplacement ages and ranges of antecrystic zircon populations identified from U-Pb zircon data from the Southern Uplands-Down-Longford terranes, relative to distance along the Iapetus suture zone (a) and distance from the proposed location of the Iapetus suture (b).

5.3. Petrogenesis, the viability of a slab rollback model, and subsequent tectonic processes

As per the Cheviot example in the previous section, if crustal or mantle sources melted to produce the parental magmas, such information can correlate with viable geodynamic settings. If the onset of magmatism requires substantive mantle melting then the Iapetus slab must have already rolled back or broken off by the time magmatism commenced, owing to a narrow arc-trench gap of <100 km (Brown et al. 2008; Miles et al. 2014). This scenario closely matches the Turkic-type orogens described by Sengor and Okurogullari (1991) and Sengor and Natal'in (1996), involving soft docking, moderate crustal thickening, and thin to absent mantle lithosphere beneath the accretionary prism. A southwards younging of the onset of magmatism is also recognised in the Turkic-type example in Eastern Anatolia (Keskin, 2003).

Prior to breakoff, accelerated slab rollback concurrent with the onset of continental collision further leads to suppressed topography in the over-riding plate (Bottrill et al., 2012), i.e., allowing an accretionary complex to lie below sea level until continental collision had been underway for some millions of years. In the Southern Uplands-Down-Longford example, accelerated slab rollback from ~424 – 418 Ma would permit the interaction of hot asthenosphere with the dewatering slab, starting from beneath the north of the prism. Breakoff would then likely have to occur by ~418 Ma to permit the onset of magmatism beneath Cheviot. Magmatism thereafter would be influenced by changing crustal stress, potentially due to the additional under-thrusting of Gondwanan-derived terranes (Halliday et al., 1980, Soper et al., 1992, Stone et al., 2012, Brown et al., 2008; Miles et al., 2014).

Are the Southern Uplands-Down-Longford igneous complexes all ultimately derived from mantle melting? Various authors such as Rapp et al. (1991), Wolf and Wyllie (1994) and Rapp and Watson (1995) have highlighted that melting of typical crustal lithologies leads to the generation of partial melts with SiO_2 >60 wt.%. Data from Carsphairn, Doon, and Newry all show samples which are more mafic than this (Table 3). Analysis of major element ratios for all Southern Uplands plutons (Hines et al., 2018) emphasises mantle-like trace element ratios of magmatism, coupled to some involvement of lower or upper crust during petrogenesis. Few of the complexes have any evidence for xenocrystic zircon (Table 3), and where it does occur, some has been argued to relate to detrital grains in the accretionary prism (Waldron et al., 2008; Hines et al., 2018). Sr/Y ratios, which are sensitive to different depths of differentiation have been used across the terrane to argue for moderate crustal thicknesses of <45 km at the time of magmatism (Hines et al. 2018), much thinner than present-day zones of crustal melting such as the core of the Himalayas (England and Thompson, 1986).

Radiogenic Rb-Sr, Lu-Hf and Pb isotope ratios in whole rocks and minerals as well as stable O in zircon have been used in several studies to identify magma sources (Halliday et al., 1980; Halliday and Stephens, 1984; Halliday et al., 1985; Miles et al., 2014; Table 3). Recently, Miles et al. (2014) identified potential involvement of Gondwanan crust in the source of the Fleet and Criffell-Dalbeattie complexes, which would have to related to under-thrusting beneath the prism. That interpretation can now be reconciled with the U-Pb zircon age data. The timing of under-thrusting of Gondwanan lithosphere must post-date the onset of magmatism at ~420 (at least for the Fleet and Criffell-Dalbeattie complexes) to allow those mantle-derived melts to form and rise into the accretionary prism. Under-thrusting of continental lithosphere would squeeze out the mantle wedge and generally suppress mantle melting. Partial hybridisation of younger, Gondwanan-derived melts with earlier, evolved mantle-derived melts within the lower crust seems inevitable. Another factor to consider would be the effect on asthenospheric dynamics by the insertion of thick continental lithosphere beneath the prism. This process may have generated a strong lithospheric thickness contrast from thick in the south to thin in the north, potentially leading to edge-driven convection (e.g., Missenard and Cadeaux, 2012). In turn such convection may have further triggered mantle-derived magmatism, at least beneath the northern part of the prism. The supporting role of crustal tectonics, specifically trans-tension, have already been covered in some detail by various authors (e.g., Brown et al., 2008; Woodcock et al., 2019).

Table 3. Source characteristics and available data from the granitoids of the Southern Uplands-Down-Longford terranes, arranged in order of proximity to the Iapetus suture.

Complex and its age range from earliest zircon antecrysts to emplacement (Ma)		**Presence of mafic facies**	**U-Pb inheritance (Ma)**	**Available isotope data**	**Comments and references**
Crossdoney	~424 - 410	Not identified	~1900, ~1200, ~480 - ~425	Pb-Pb feldspar, Lu-Hf zircon	Skiba (1952) identified mafic rocks but may be hornfels or restite. Other data from Fritschle (2016).
Carsphairn	~418 – 411	Several samples <60 wt.% SiO_2	~500, ~455- ~430	Rb-Sr whole-rock, feldspar, and biotite	Geochronology: this study. Geochemistry: Tindle et al. (1988), Thirlwall (1988).
Doon	~424 – 392	Many samples <60 wt.% SiO_2	~1090, ~500-470	Rb-Sr, Sm-Nd whole-rock	Geochronology: Halliday et al., (1980); Hines et al., (2018). Geochemistry: Brown et al. (1979b); Halliday et al., (1980); Tindle (1982).
Newry	~416 – 406	Average Seeconnell phase <60 wt.% SiO_2	Not evident	No data	Geochronology: Cooper et al. (2016). Geochemistry: Anderson et al. (2016).
Fleet	~414 – 383	Not identified.	Not evident	Lu-Hf-O zircon, Rb-Sr, Sm-Nd whole-rock, Rb-Sr feldspar, muscovite, biotite	Geochronology: Halliday et al., (1980), Miles et al., (2014). Geochemistry: Halliday et al., (1980); Helps (2009); Miles (2013).
Portencorkrie	~403 – 387	Several samples with <60 wt.% SiO_2.	Not evident	No data	Geochronology: Oliver et al. (2008). Geochemistry: Stone, (1995).
Stockarton Moor	~421 – 407	Mafic dykes during Phase 1, no geochemical data.	~900 and ~430	No data	Geochronology: this study. Facies: Leake and Cooper (1983).
Criffell-Dalbeattie	~416 – 402	One sample with <60 wt.% SiO_2. Contains mafic enclaves.	Not evident	Lu-Hf-O zircon, Sm-Nd Rb-Sr whole-rock, Rb-Sr feldspar, biotite	Geochronology: Halliday et al., (1980), Miles et al., (2014). Geochemistry: Halliday et al., (1980); Holden et al., (1987); Helps (2009); Miles (2013).
Bengairn	~415 – 407	One sample with <60 wt.% SiO_2. Contains mafic enclaves.	Not evident	No data	Geochronology: this study. Geochemistry: MacGregor (1937).
Cheviot	~418 – 398	Not identified.	Not evident	Rb-Sr, Sm-Nd whole-rock, Rb-Sr feldspar, clinopyroxene, biotite	Geochronology: this study. Facies: Jhingran (1942). Isotopes: Halliday et al., (1979), Thirlwall (1988).

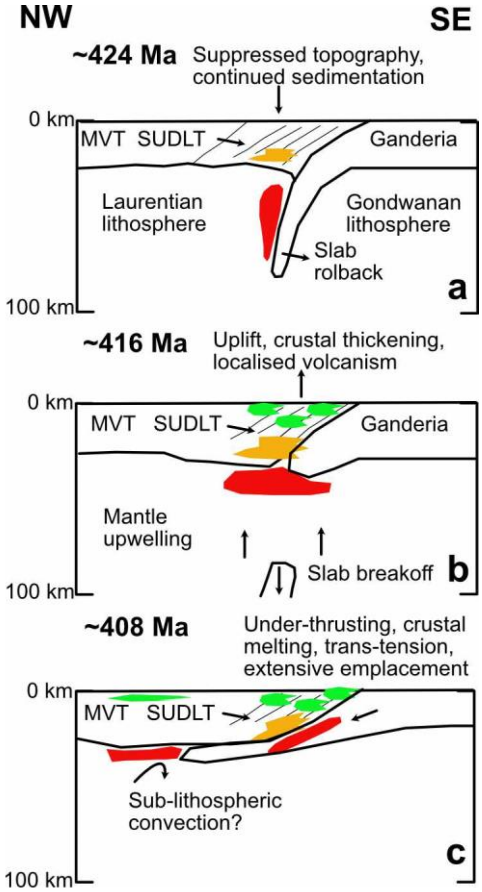

Figure 7. Geodynamic interpretation, adapted from the ~412 Ma reconstruction of Miles et al. (2014). a) ~424 Ma - roll-back of the Iapetus slab as peri-Gondwanan lithosphere under-thrusts the Laurentian continental margin, leading to mantle melting and lower crustal storage at the site of the accretionary prism. b) ~416 Ma – Iapetus slab has detached, leading to mantle melting directly beneath the site of the continental suture, followed by beginning of under-thrusting of peri-Gondwanan continental lithosphere. c) ~408 Ma – under-thrusting continues, leading to crustal melting, re-mobilisation of lower crustal mushes, and potentially edge-driven convection processes towards the north of the accretionary prism. Red = zones dominated by partial melting; orange = zones dominated by storage of magmas; green = zones of emplacement.

6. Conclusions and recommendations for further research

The Southern Uplands-Down-Longford terranes were an accretionary prism on the Laurentian margin of the Iapetus Ocean. The prism contains magmatic complexes associated with collision between the margin and peri-Gondwanan terranes at ~424 – 385 Ma. Each intrusive complex from this time period now has a U-Pb zircon constraint on its geochronology, allowing us to better constrain the magmatic record and its association with geodynamic processes:

1) A majority of intrusive complexes contain populations of zircons which grew prior to final emplacement. At its extreme, samples from Doon (Hines et al., 2018) and Carsphairn (*this study*) have produced weighted mean U-Pb ages for individual zones which are inconsistent with cross-cutting relationships. These zones have been interpreted to be largely or wholly comprised of re-mobilised mushes which previously stalled, evolved, and crystallised zircon in the lower crust. Populations of antecrystic zircon may pre-date emplacement by up to 30 Myr. Xenocrystic zircon is rare, and some of these may come from Laurentian detritus in the accretionary prism, or from buried peri-Gondwanan terranes beneath the accretionary prism.

2) We concur with previous studies that magmatism was at least initially driven by mantle melting processes. As melting occurred closer to the suture than typical arc-trench gaps, accelerated rollback and eventual breakoff of the Iapetus slab are required. The onset of magmatism broadly gets younger towards the Iapetus suture, though there is no temporal pattern along the suture, nor a spatial pattern specifically related to the timing of emplacement. Collision and accelerated slab rollback were underway by ~424 Ma when the first antecrystic zircon populations are recorded. The combination of the termination of sedimentation in the prism by ~420 Ma and the onset of magmatism very close to the suture from ~418 Ma, together imply that slab breakoff occurred in the time period ~420-418 Ma.

3) Subsequent emplacement events involve the remobilisation of existing batches of magma from a lower crustal hot zone and further addition of magmas from melting of under-thrust Gondwanan lithosphere. A trans-tensional tectonic regime aided emplacement, but the role of other processes such as edge-driven convection are unproven.

With this geological framework in place, further research can focus on enhancing knowledge of the petrogenesis of these bodies (e.g., Miles et al., 2014) as well as their mineralisation and subsequent tectonic history. We are currently assessing the Black Stockarton Moor porphyry copper system for the presence of critical raw materials. Most other complexes are under-explored since the work of the Minerals Reconnaissance Programme of the 1970's to 1990's. It may be worthwhile identifying which specific facies have affinity to melting of Gondwanan lithosphere and whether there is a substantial difference in metallogenesis between these and those derived solely by melting of upper mantle and accretionary prism sediments. Some zones within the plutonic complexes also have enhanced radiogenic heat production, including Cheviot, Criffell, Doon and Fleet (Scottish Government, 2013; McCay and Younger, 2017). A low-cost approach to further geothermal exploration would be detailed mapping of post-emplacement faulting and fracturing, modelling of fluid flow potential, and extensive magnetic susceptibility work to identify the likely 3-D structure and continuity at depth of each plutonic complex (e.g., Lawrence et al., 2022).

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List of supplementary items

Supplementary Item A: Hand specimen and thin section photographs of the dated rocks in this study.

Supplementary Item B: Cathodoluminescence images of mounted zircon crystals marked up with spot locations and references.

Supplementary Item C: Verbal descriptions and classifications of imaged zircon crystals.

Supplementary Item D: U-Pb zircon laser ablation data for standards and unknowns.

Supplementary Item A – Hand specimen and Thin Section images

1) Hand specimen photographs (where taken)

Carsphairn

CR05

CR06

CR07

CR08

Bengairn

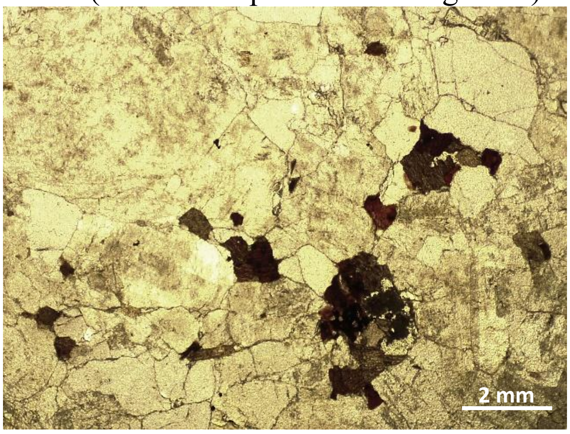
BG01

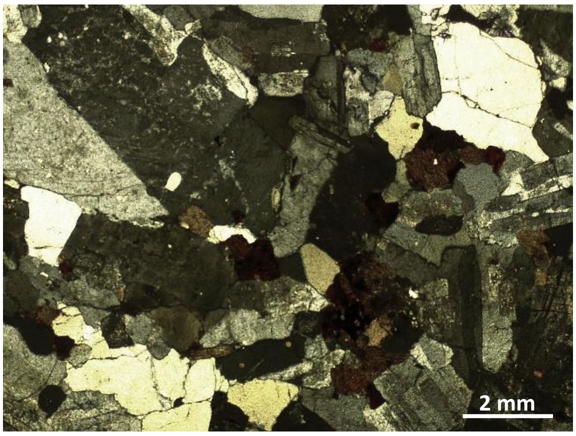
Mafic enclave

2) Thin section images in plain polarised light (LHS) and cross polarised light (RHS)

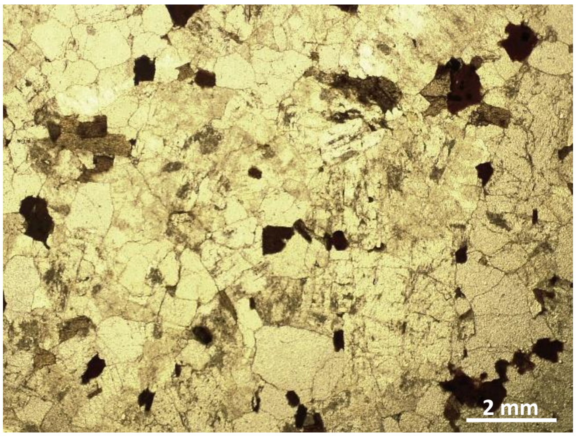
Cairnsmore of Carsphairn

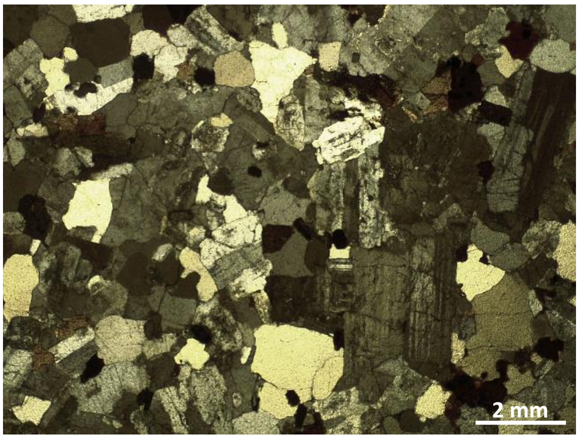
CR05 (Alkali feldspar dominated granite)



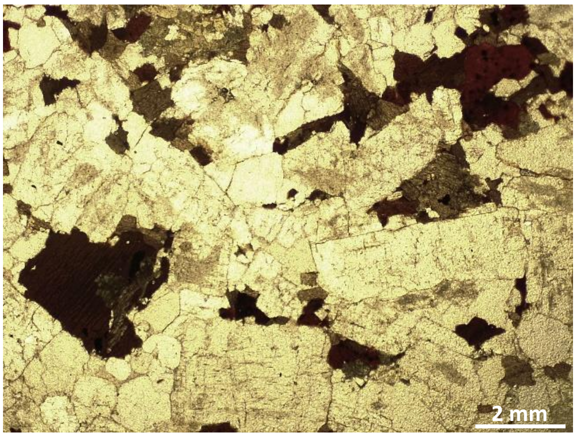


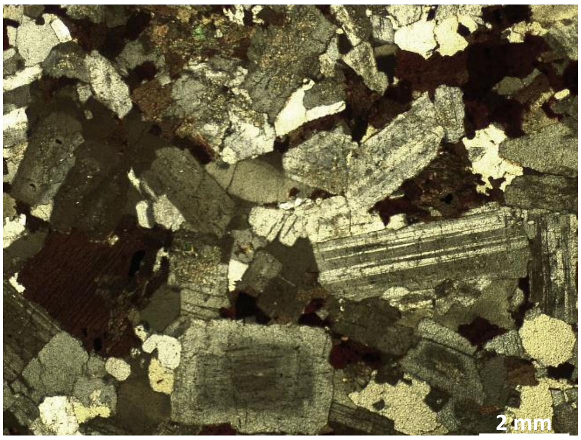
CR06 (Plagioclase and quartz dominated granodiorite)





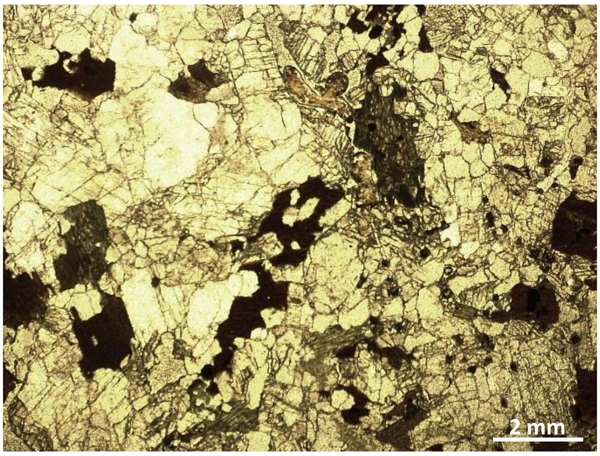
CR07 (Plagioclase dominated granodiorite)

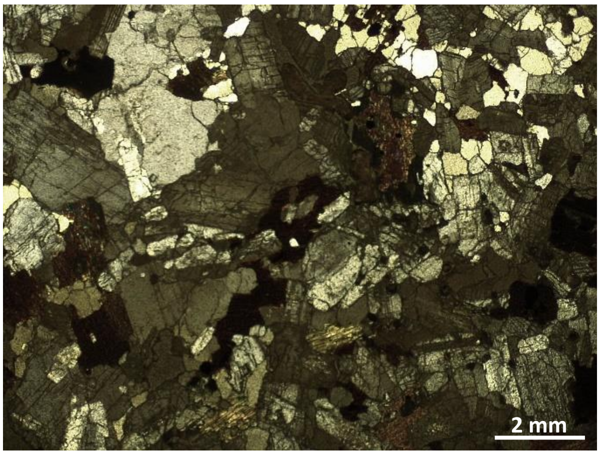




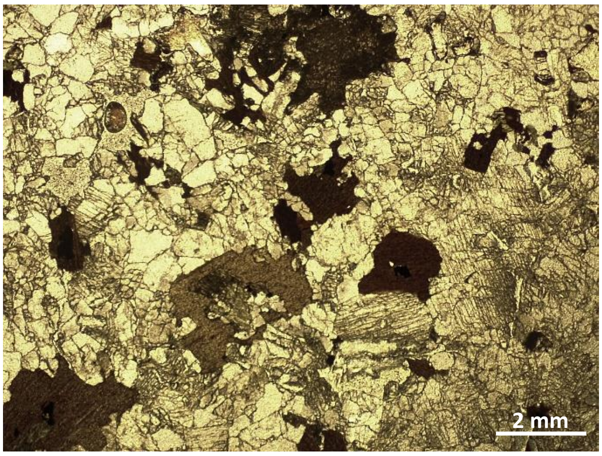
CR08 (Plagioclase dominated monzogranite)

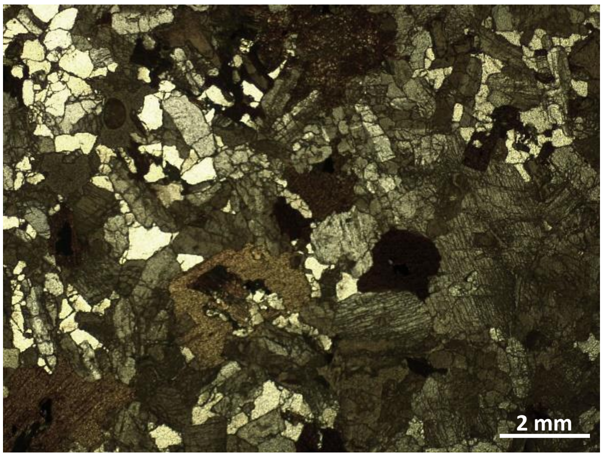
Primary Mineralogy





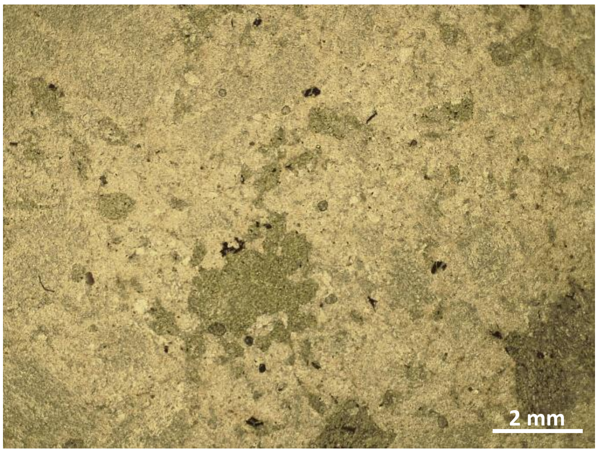
Alteration mineralogy

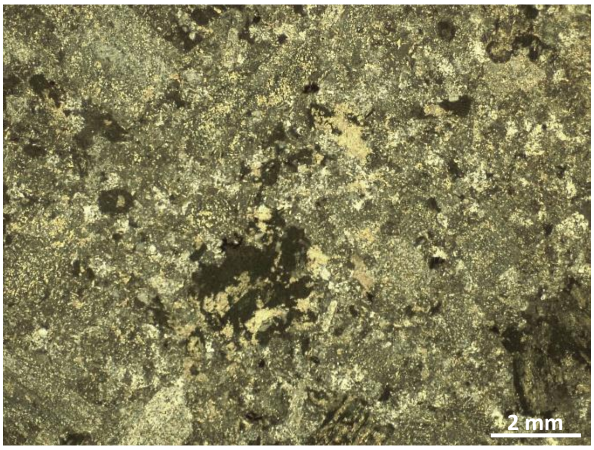




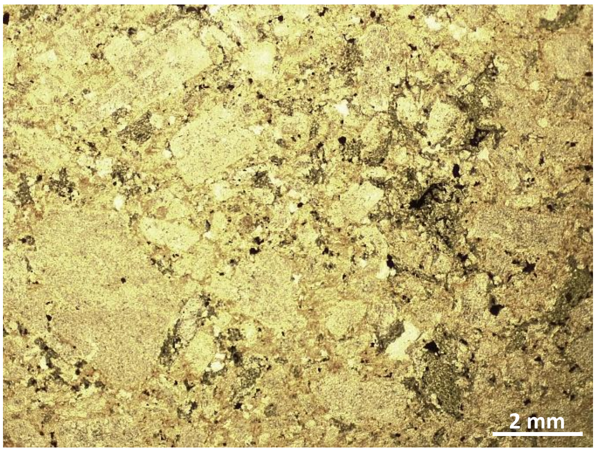
Black Stockarton Moor

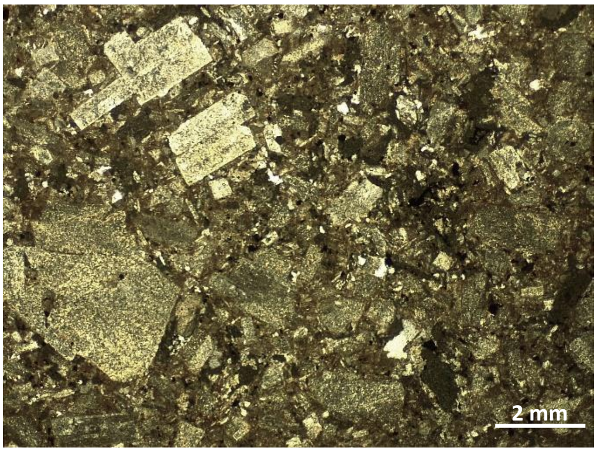
JD01 (Plagioclase dominated quartz diorite)



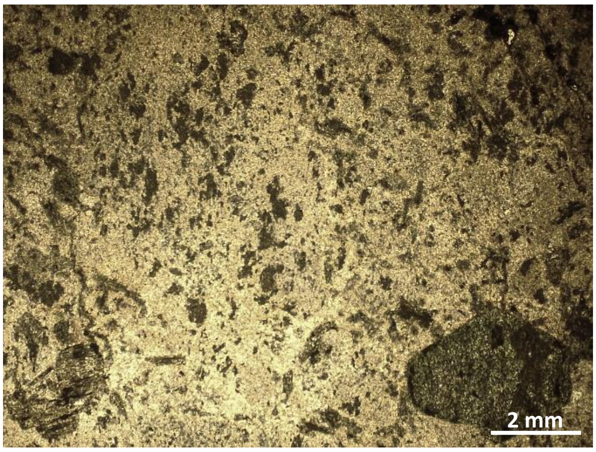


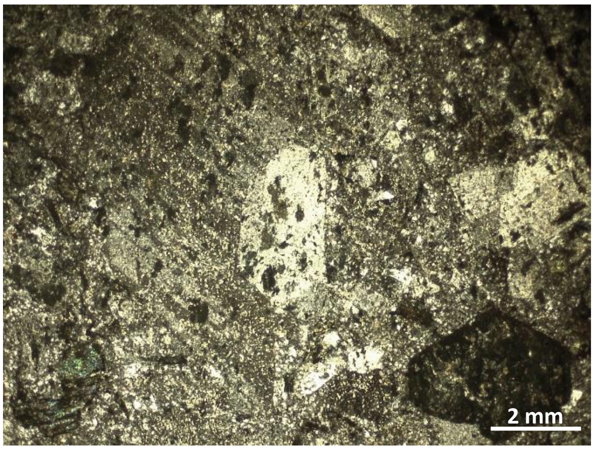
SM02 (Plagioclase dominated quartz diorite)





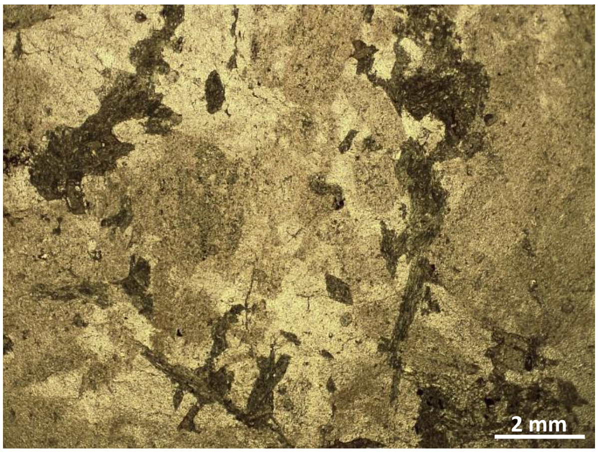
SM01 (Plagioclase dominated quartz diorite)

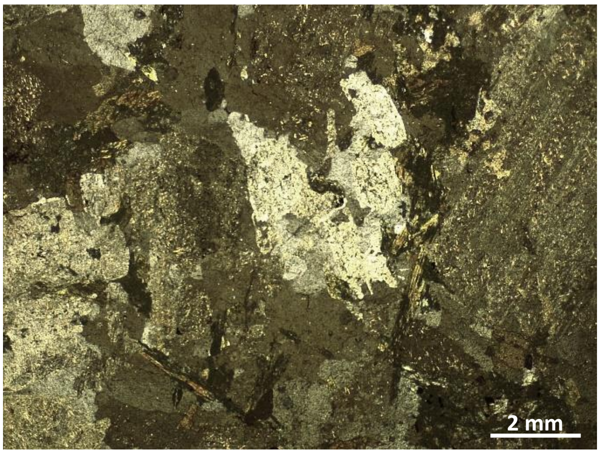




Bengairn

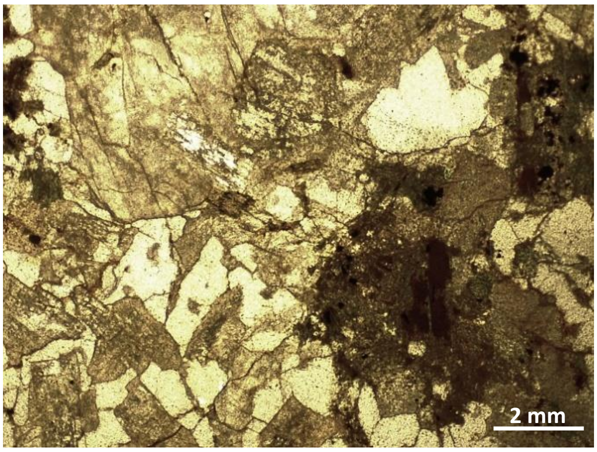
BG01 (Plagioclase dominated quartz monzodiorite)

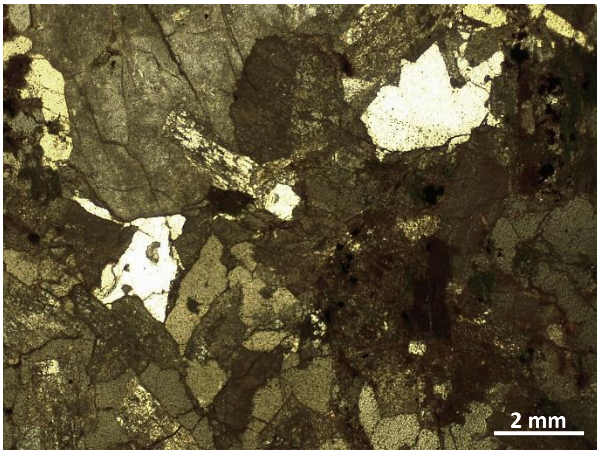




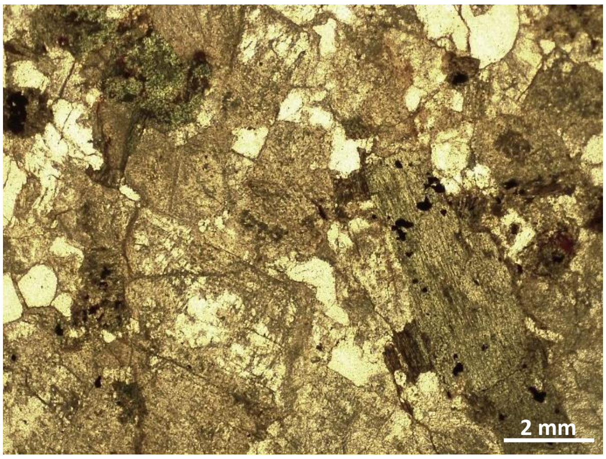
Cheviot

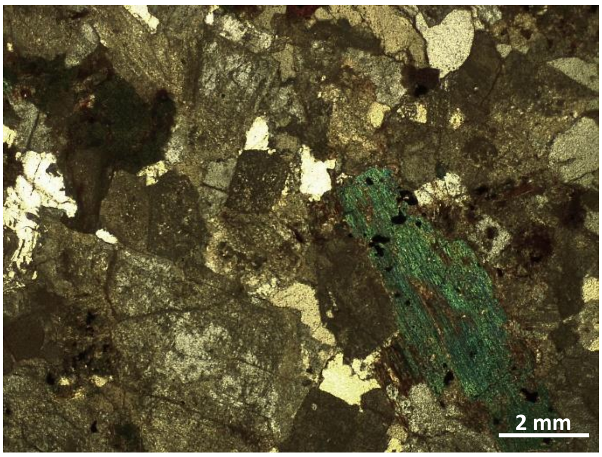
CH01 (Alkali feldspar dominated quartz monzonite)



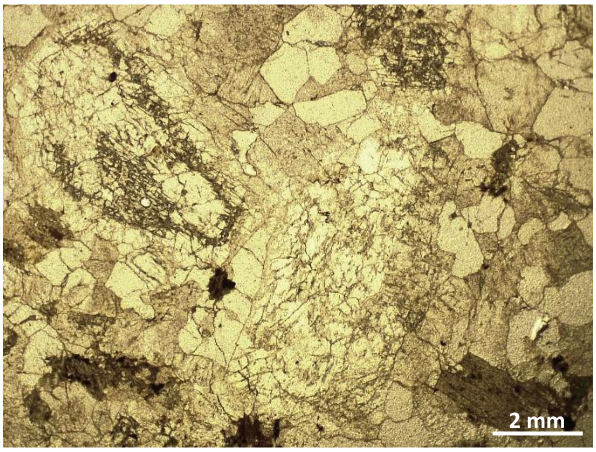


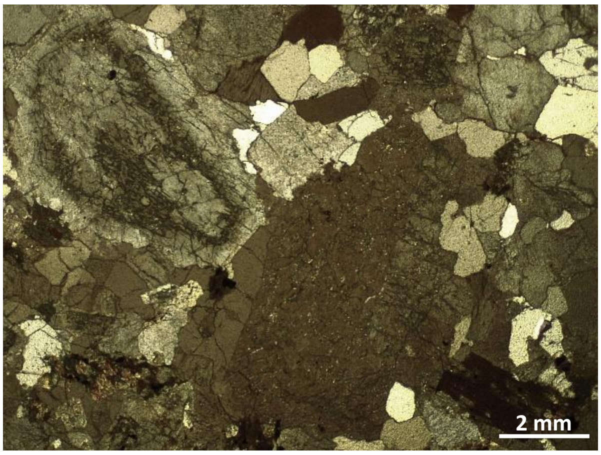
Possible tourmaline (bottom right, high order interference colours in XPL)





CH02 (Alkali feldspar dominated syenogranite)





Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Emplacement zircons (i.e., zircons included in emplacement age calculation)

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

Xenocrystic zircons (i.e., grains with spots > 425 Ma)

Discordant points

Spots that likely record Pb loss but that are included in the age calculation to achieve a statistically acceptable emplacement age (i.e., a MSWD = 1 or as close to 1 as possible)

Grains with no spots were not analysed in this study.

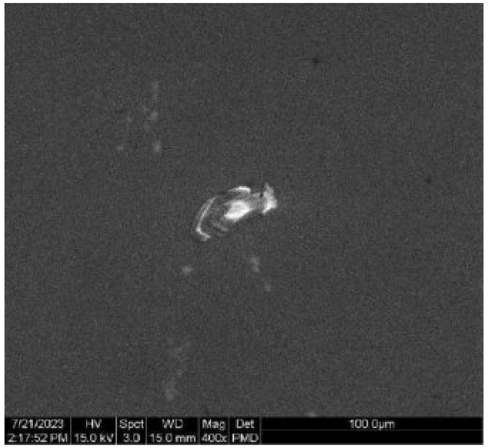
JD01-mount 1

CG22JD01m2-CL_001.tif

No analysis. Grain too small/zones too narrow.

CG22JD01m2-CL_002.tif

No analysis. Grain too small/zones too narrow.

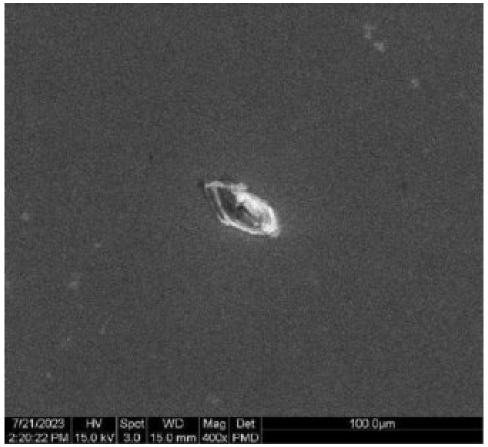


CG22JD01m2-
CL_003.tif

No analysis. Not certain grain is a zircon, looks more apatite shaped.

CG22JD01m2-
CL_004.tif

No analysis. Grain too small/zones too narrow.



CG22JD01m2-
CL_005.tif

2 x U-Pb

5.1, 5.2

CG22JD01m2-
CL_006.tif

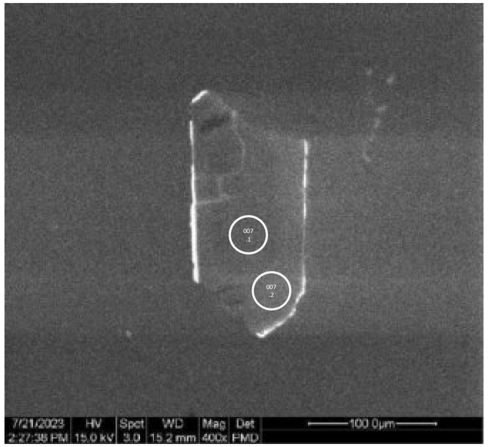
2 x U-Pb

6.1, 6.2

CG22JD01m2-
CL_007.tif

2 x U-Pb

7.1, 7.2



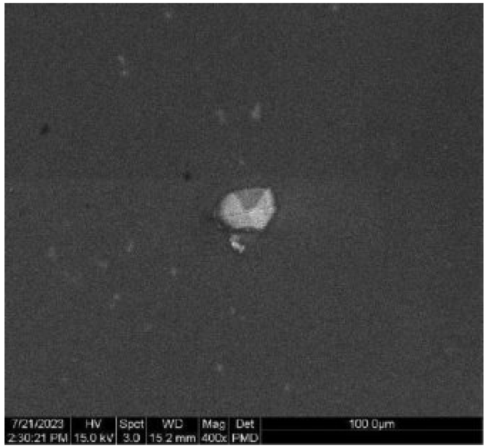
CG22JD01m2-
CL_008.tif

1 x U-Pb

8.1

CG22JD01m2-
CL_009.tif

No analysis. Grain too small/fracture straight through middle.



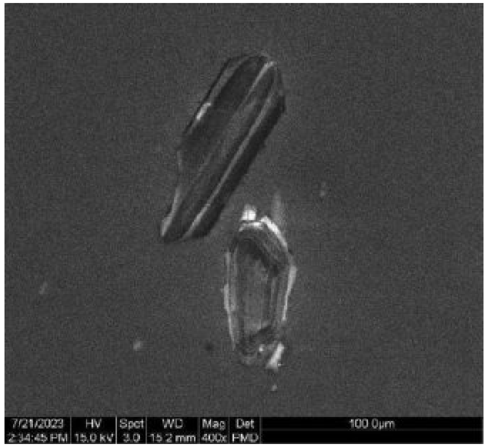
CG22JD01m2-
CL_010.tif

2 x U-Pb

10.1, 10.2

CG22JD01m2-
CL_011.tif

No analysis. Grains too fractured.



CG22JD01m2-
CL_012.tif

1 x U-Pb

12.1

CG22JD01m2-
CL_013.tif

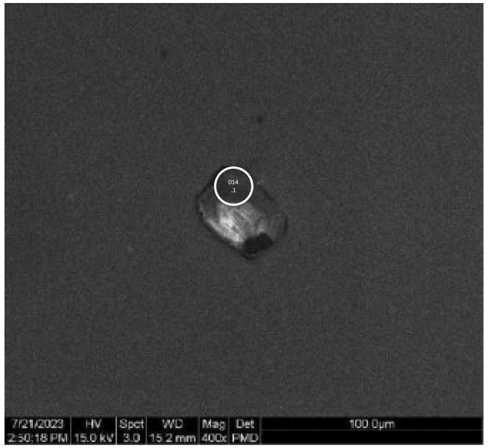
1 x U-Pb

13.1

CG22JD01m2-
CL_014.tif

1 x U-Pb

14.1



CG22JD01m2-
CL_015.tif

3 x U-Pb

15.1, 15.2, 15.3

CG22JD01m2-
CL_017.tif

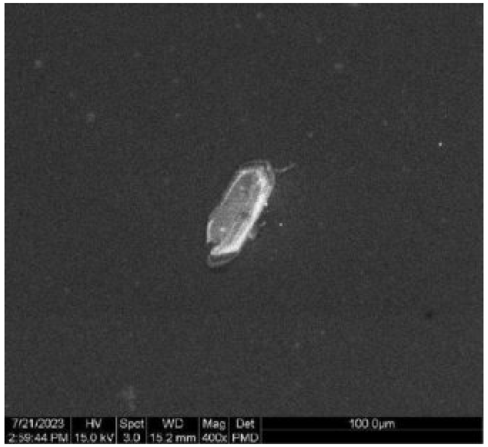
No analysis. Grain too small/zones too narrow.

CG22JD01m2-
CL_018.tif

CG22JD01m2-
CL_019.tif

CG22JD01m2-
CL_020.tif

No analysis. Grain too small/zones too narrow/too fractured.



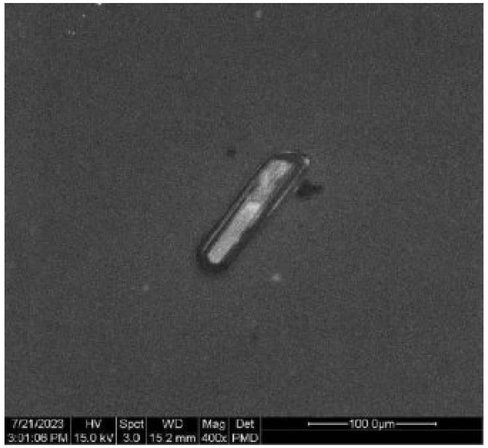
CG22JD01m2-
CL_021.tif

1 x U-Pb

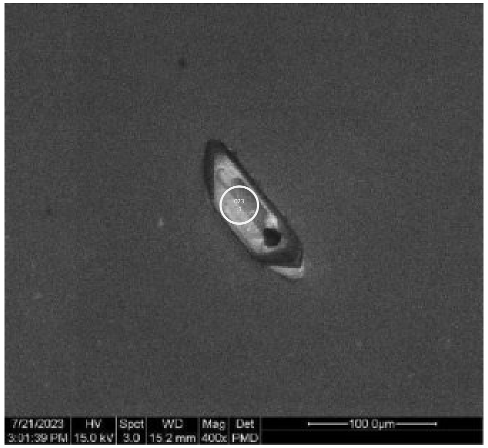
21.1

CG22JD01m2-
CL_022.tif

No analysis. Grain too small/zones too narrow/too fractured.

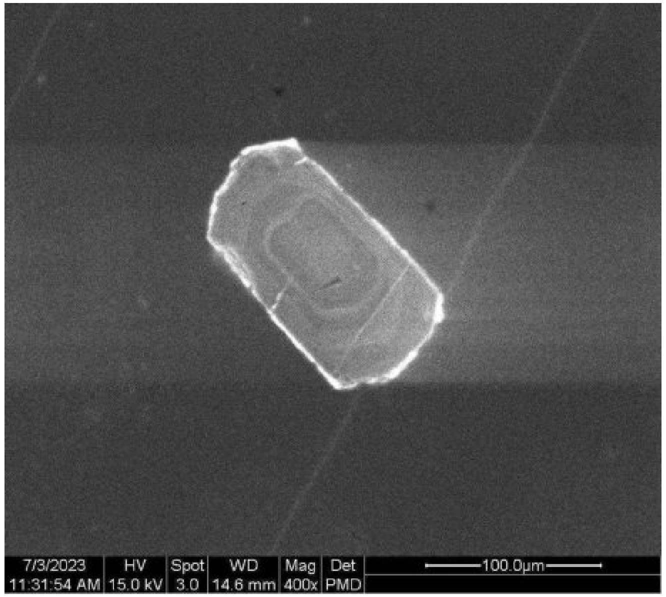


CG22JD01m2-
CL_023.tif

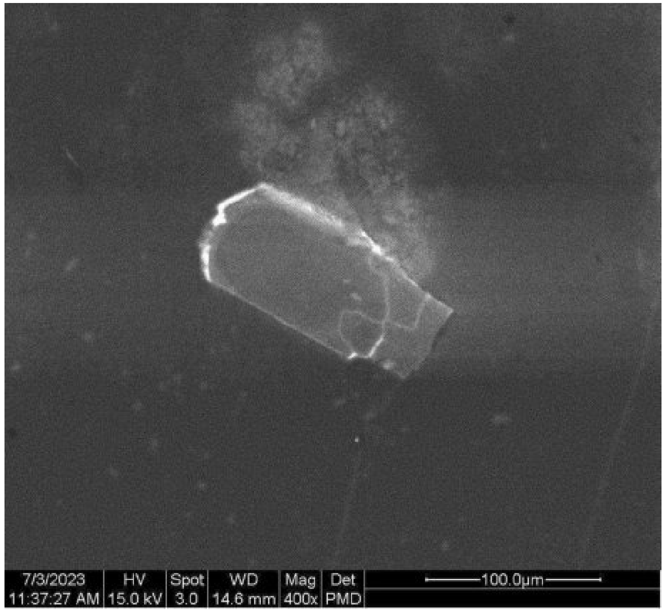


JD01-mount 2

CG22JD01m1-
CL_001.tif

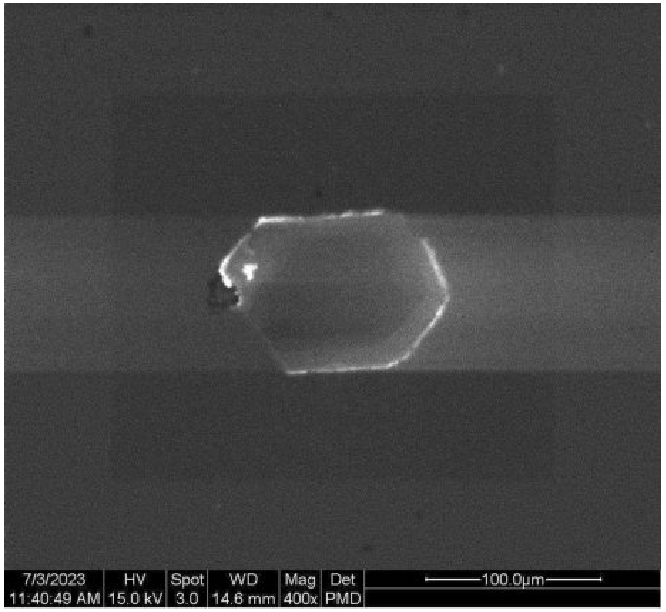


CG22JD01m1-
CL_002.tif



CG22JD01m1-
CL_003.tif

Apatite?



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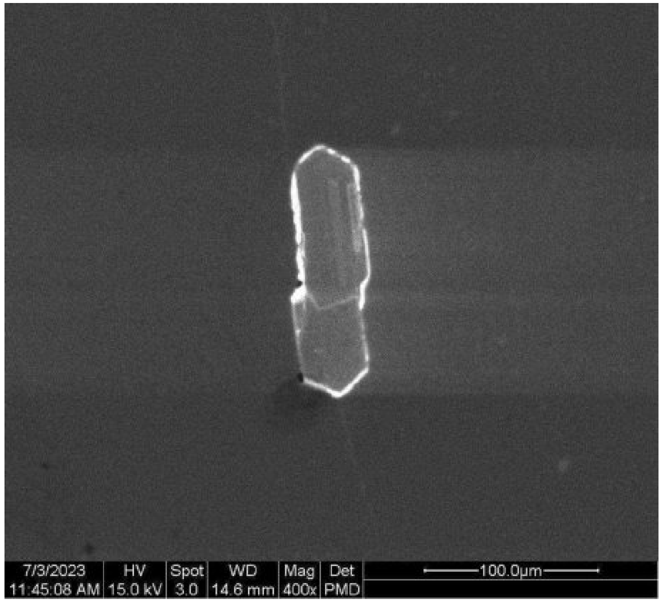
CL_004.tif



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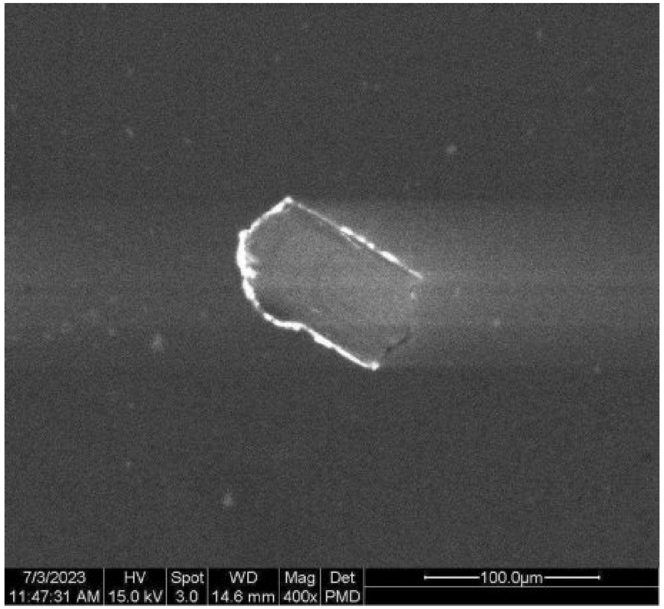

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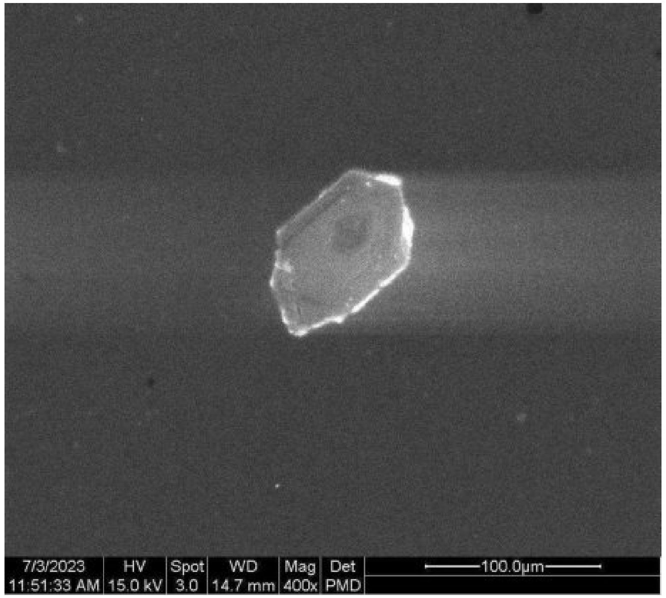

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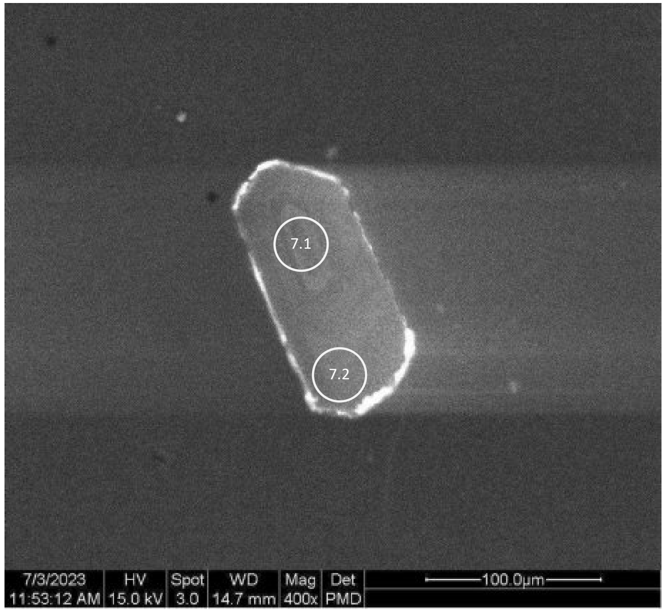

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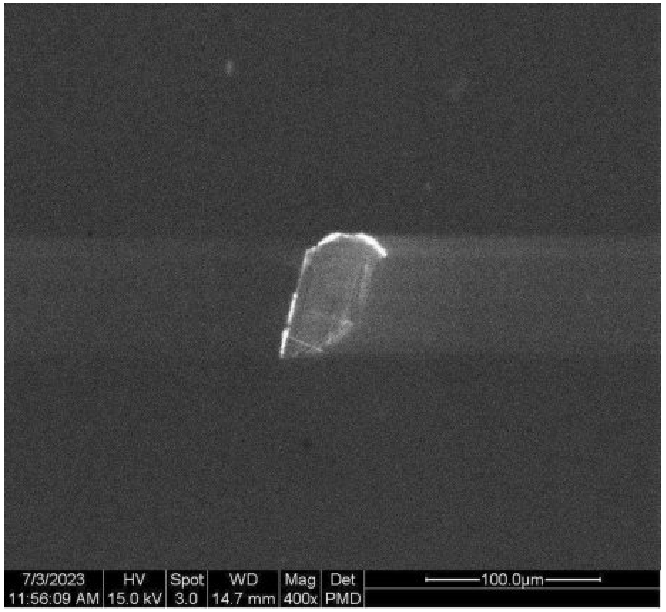

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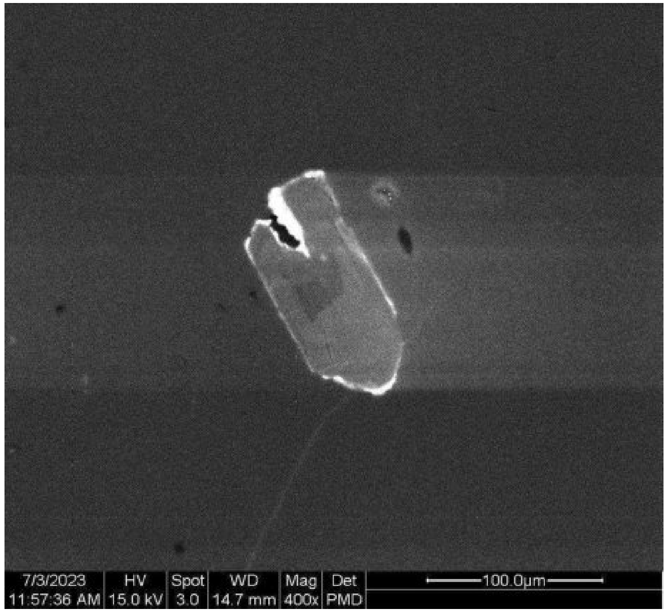

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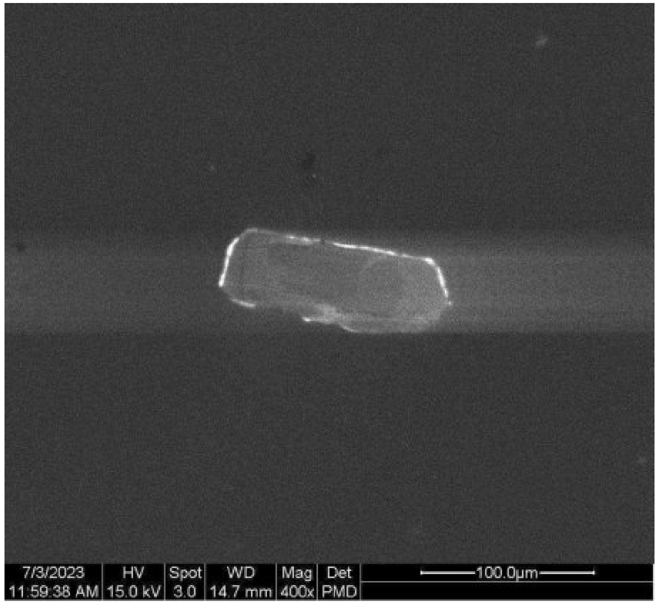
Apatite?



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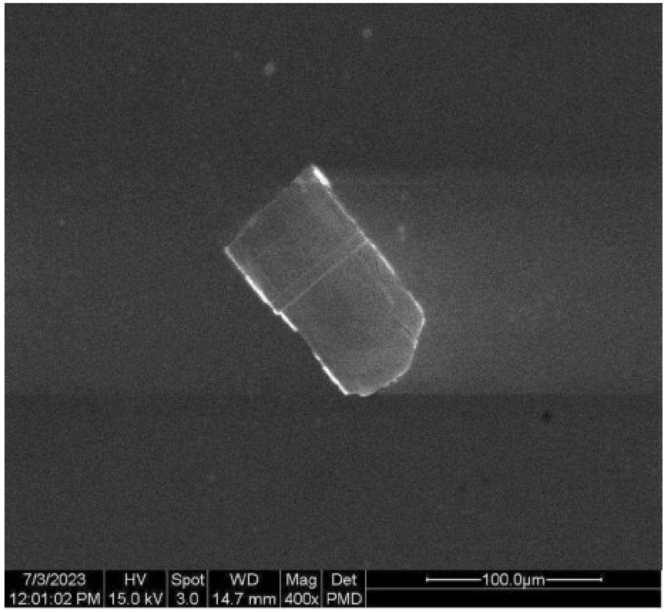
CL_011.tif

Apatite?



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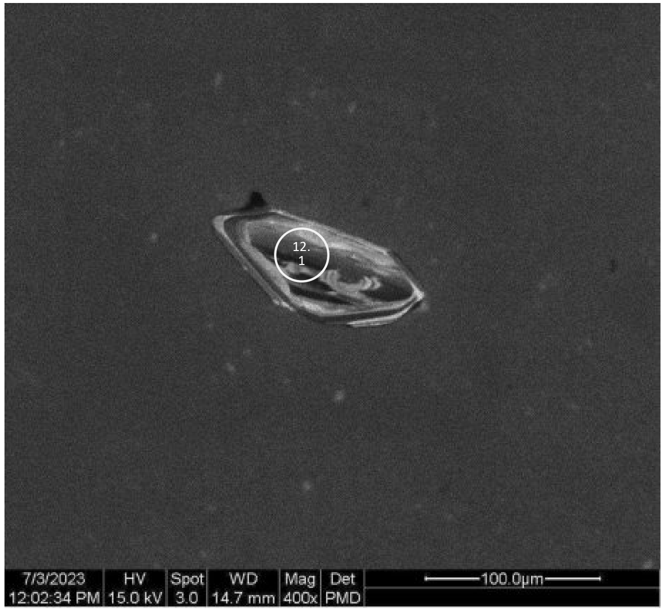

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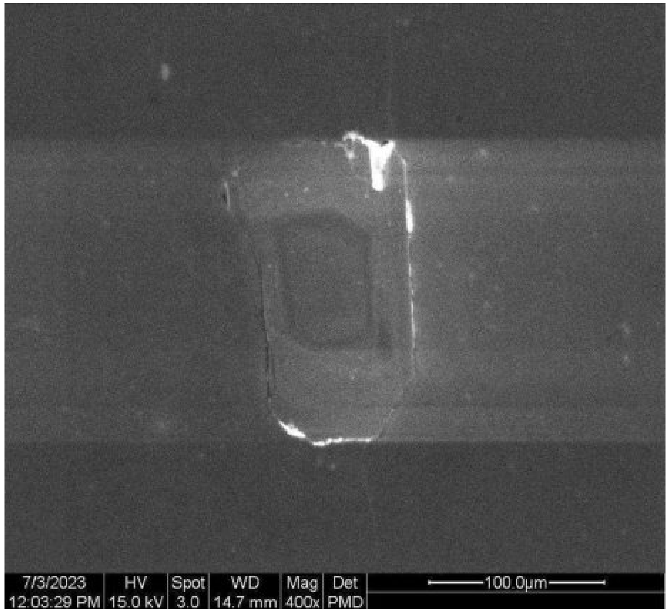

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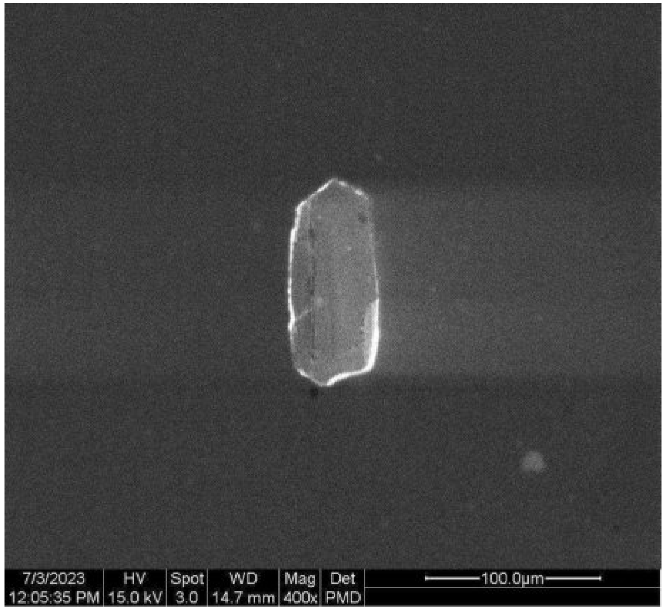

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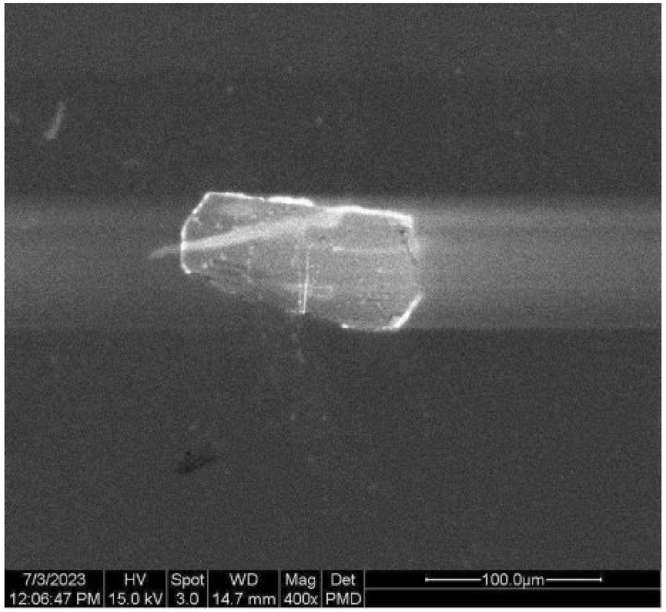
Apatite?



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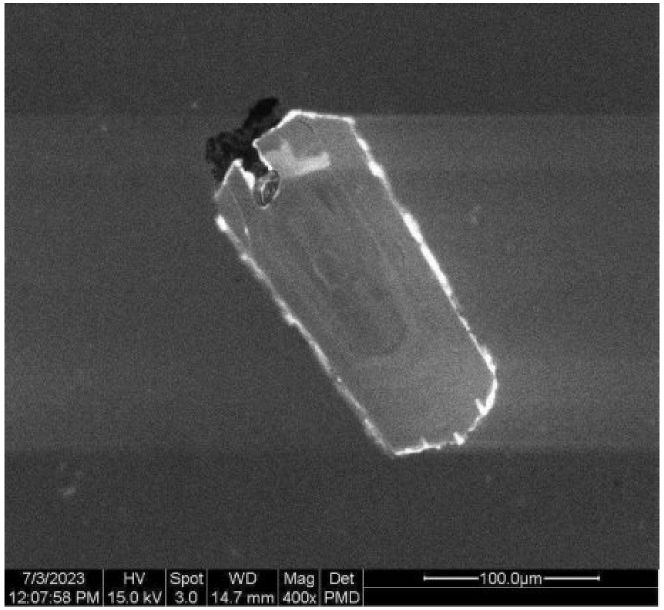

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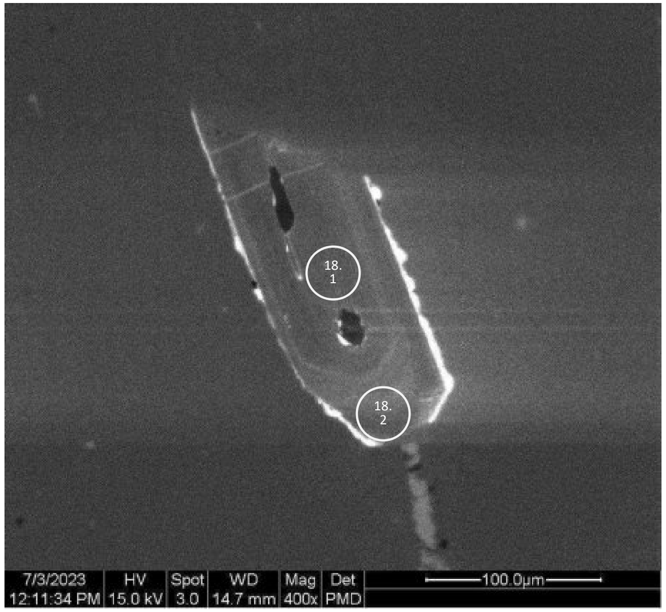

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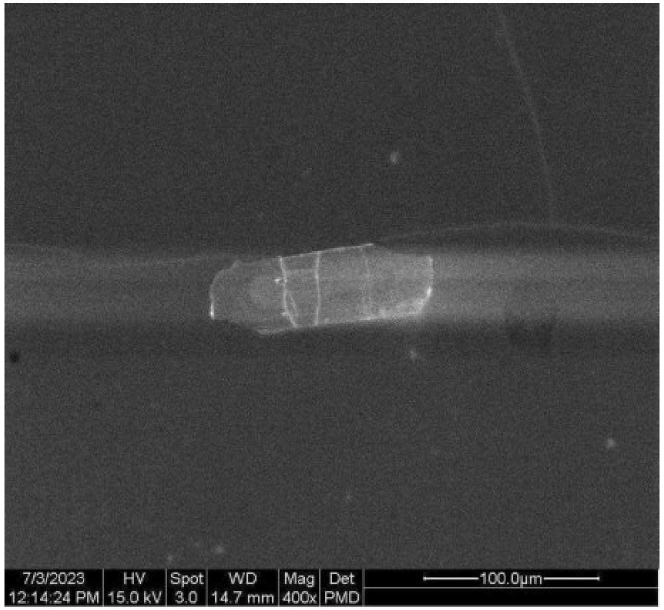

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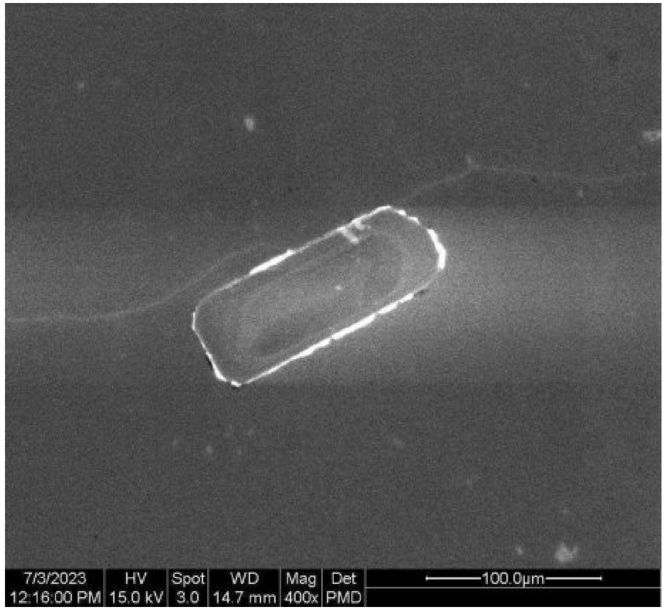

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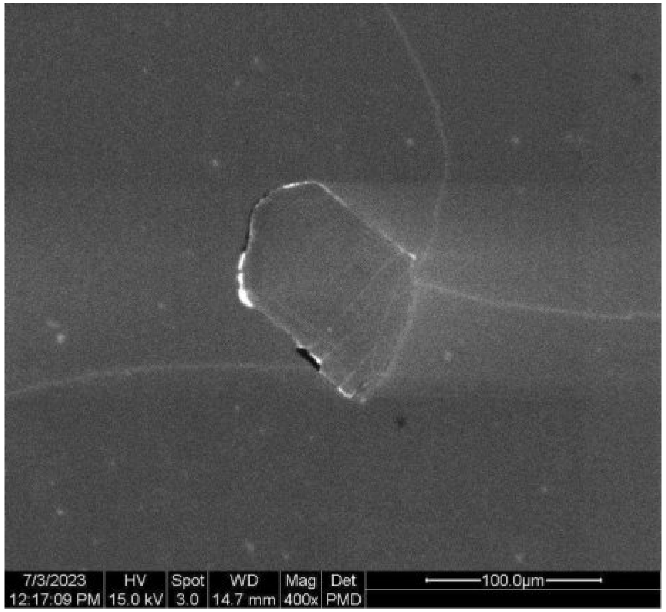
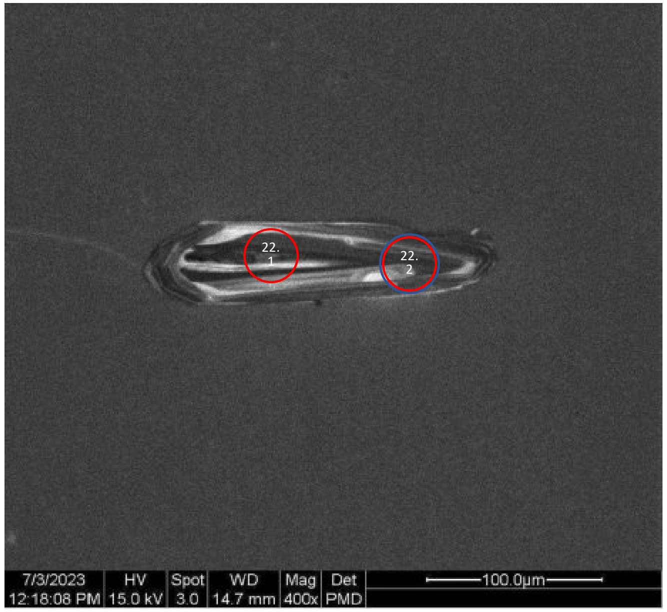
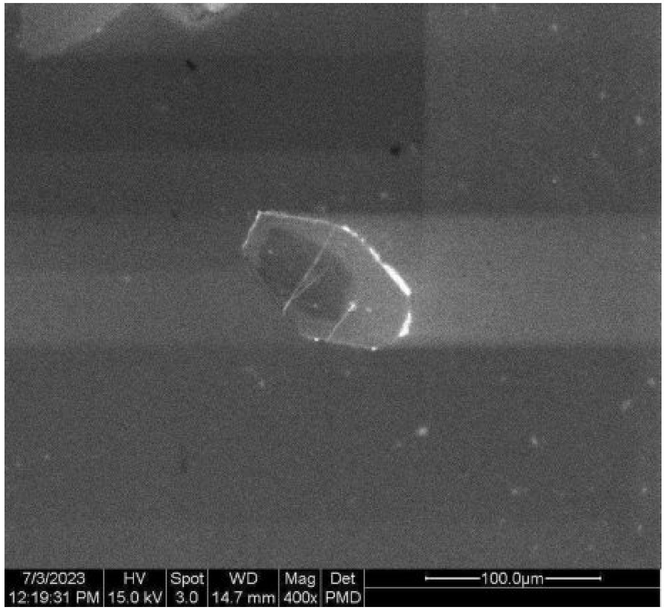


CG22JD01m1-
CL_022.tif

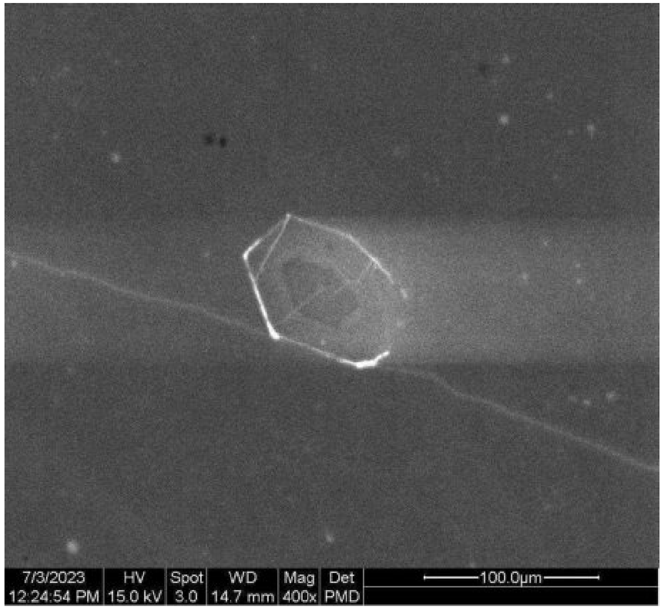


CG22JD01m1-
CL_023.tif

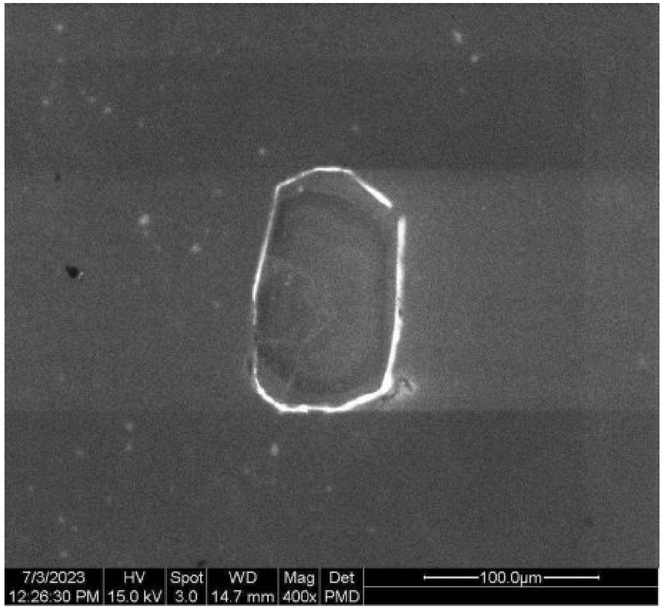


CG22JD01m1-
CL_024.tif

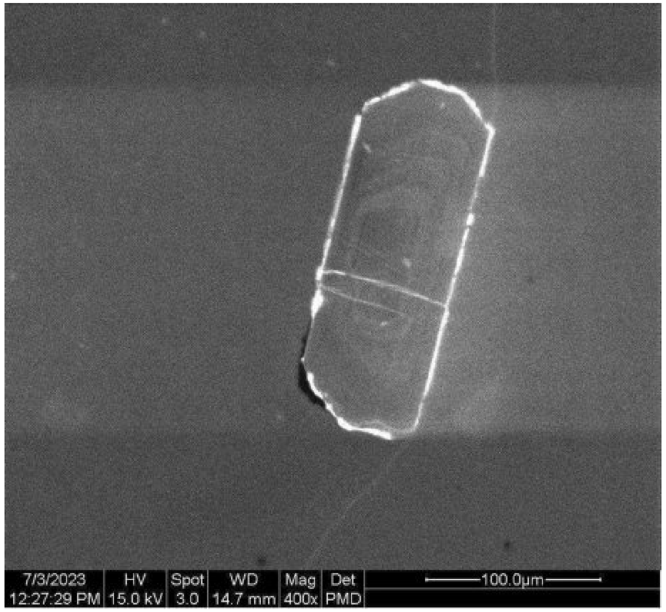
CG22JD01m1-CL_025.tif



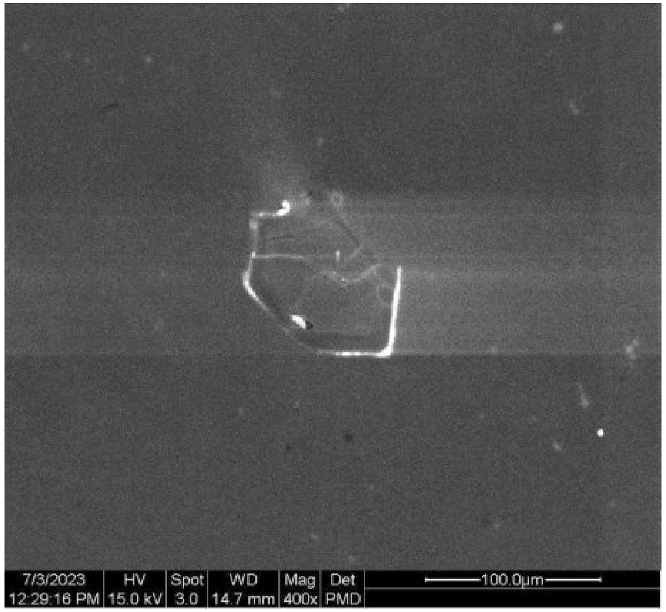
CG22JD01m1-CL_026.tif



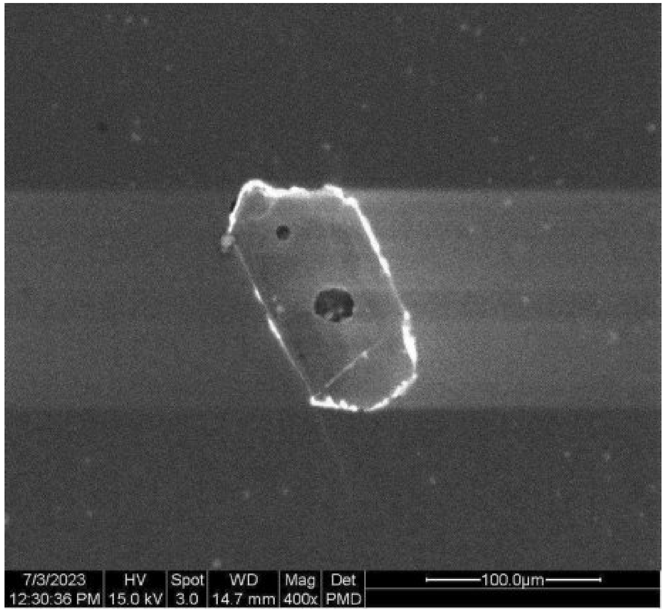
CG22JD01m1-CL_027.tif



CG22JD01m1-CL_028.tif

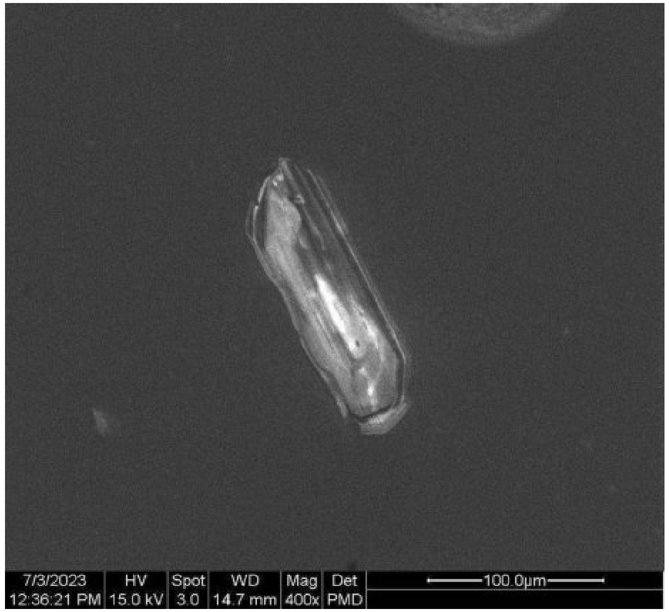


CG22JD01m1-
CL_029.tif

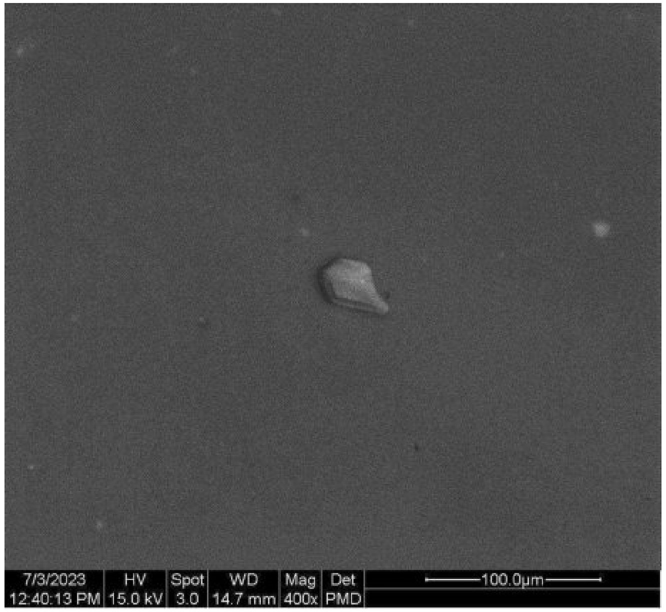


CG22JD01m1-
CL_030.tif

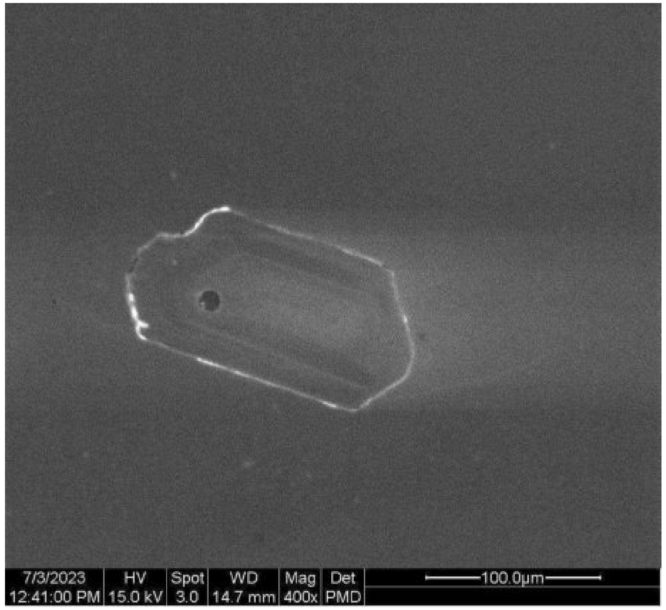
Too
fractured



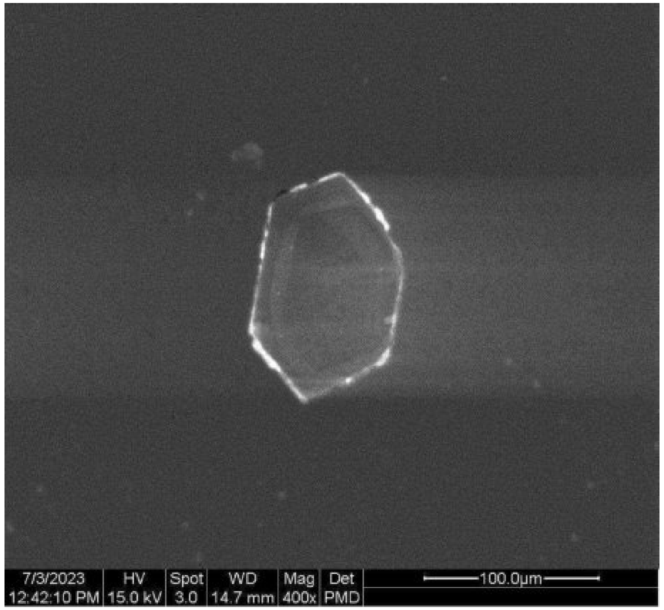
CG22JD01m1-
CL_031.tif



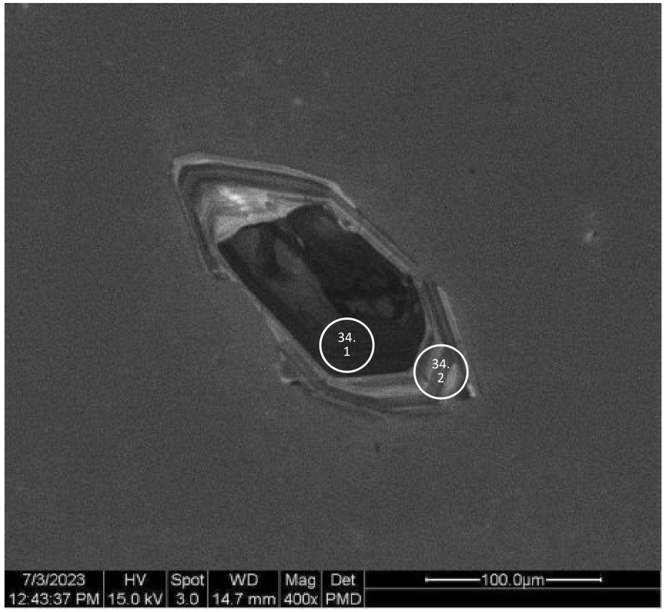
CG22JD01m1-
CL_032.tif



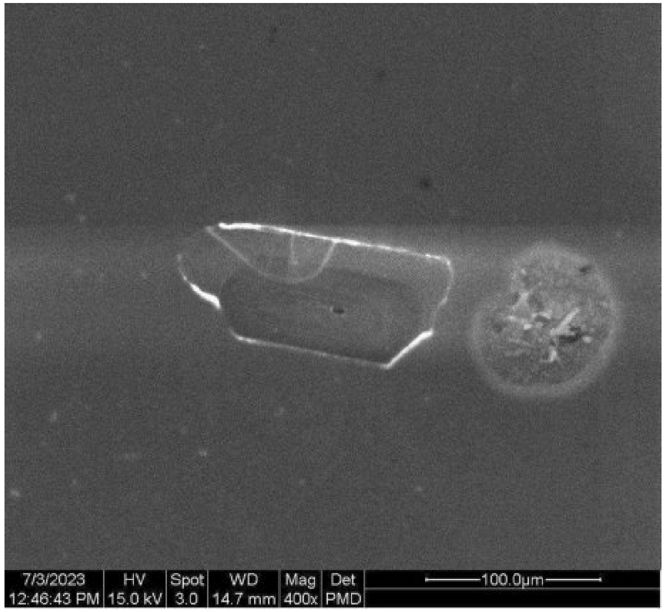
CG22JD01m1-
CL_033.tif



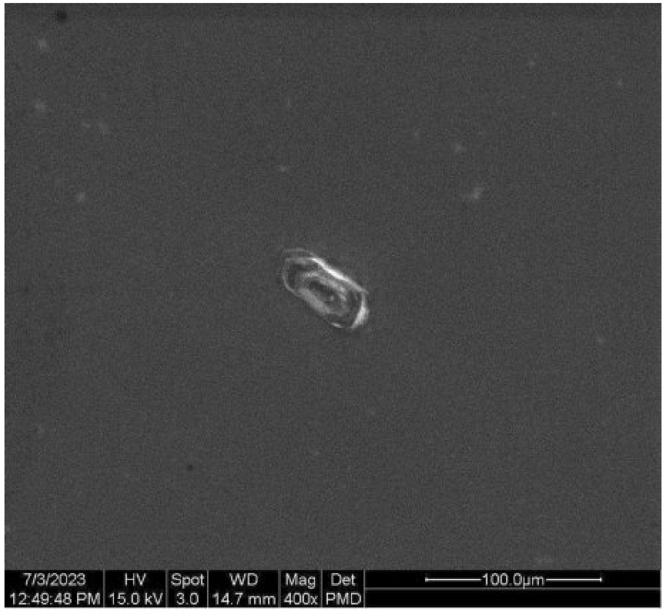
CG22JD01m1-
CL_034.tif



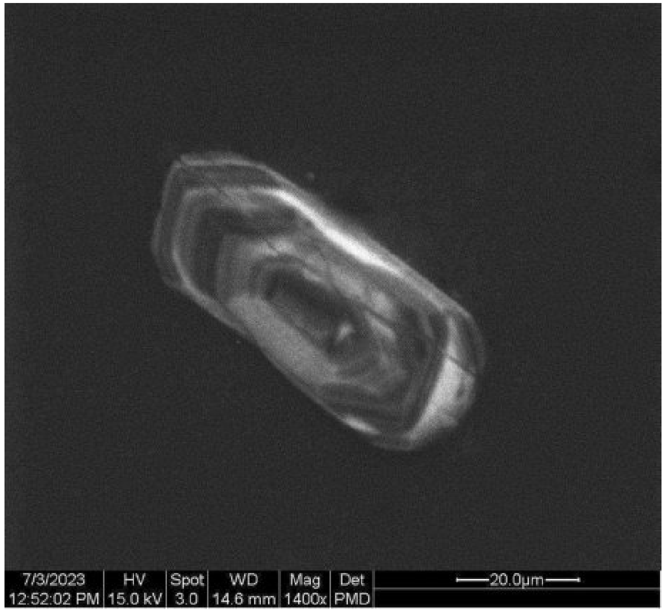
CG22JD01m1-
CL_035.tif



CG22JD01m1-
CL_036.tif

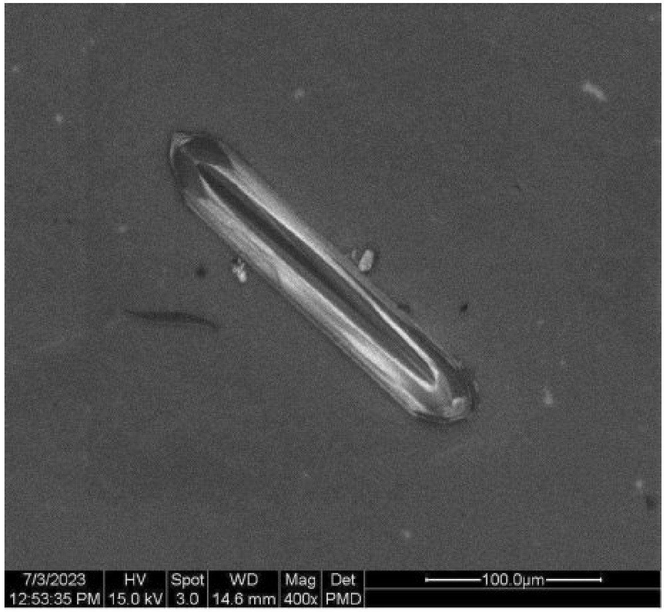


CG22JD01m1-CL_036_1400x.tif

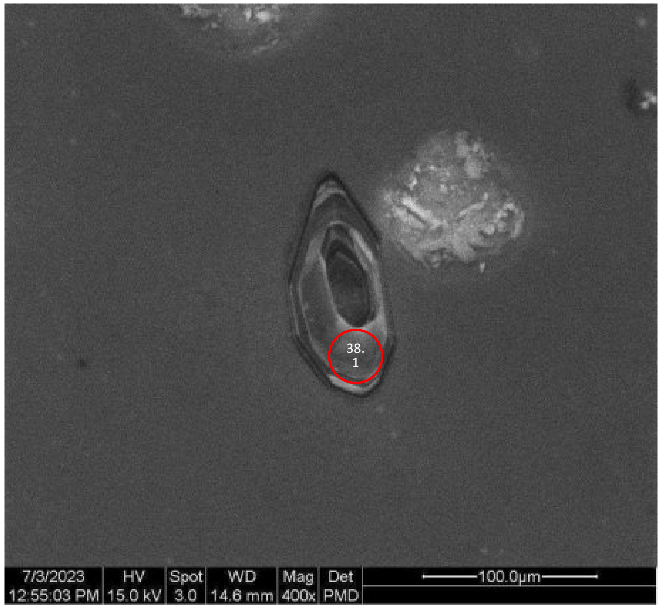


CG22JD01m1-CL_037.tif

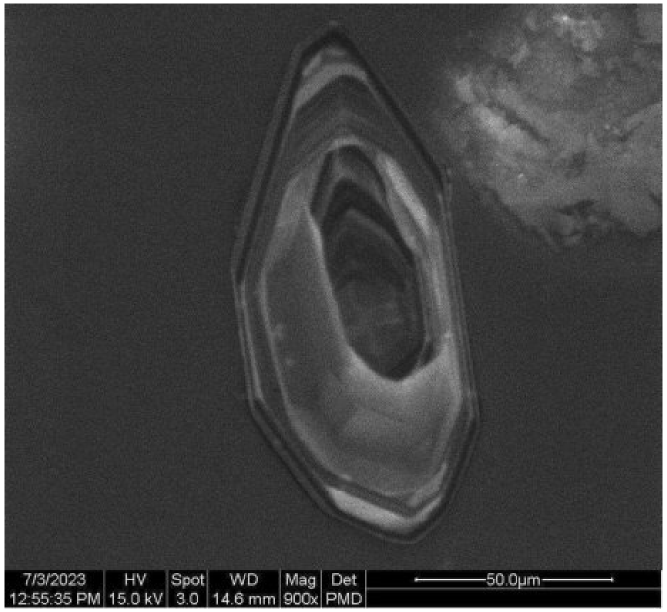
Spot would just cross zones



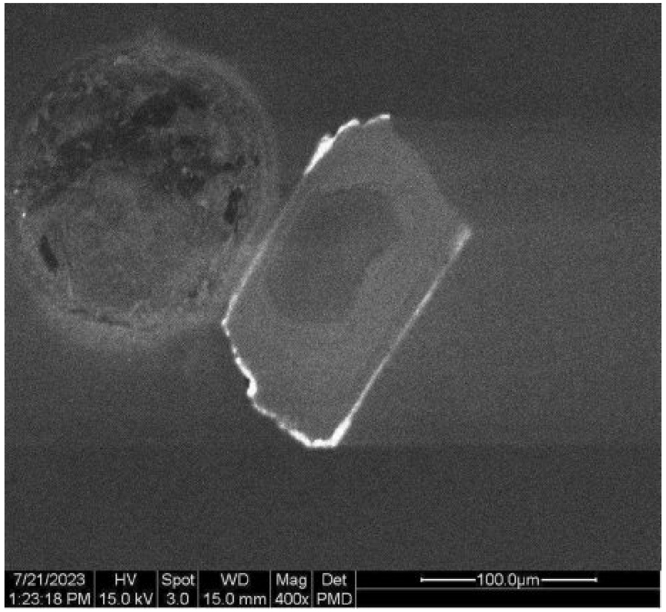
CG22JD01m1-CL_038.tif



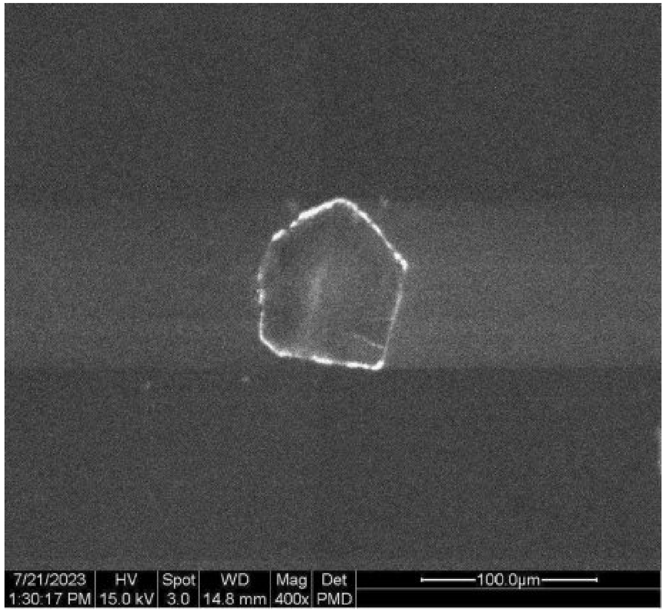
CG22JD01m1-CL_038_900x.tif



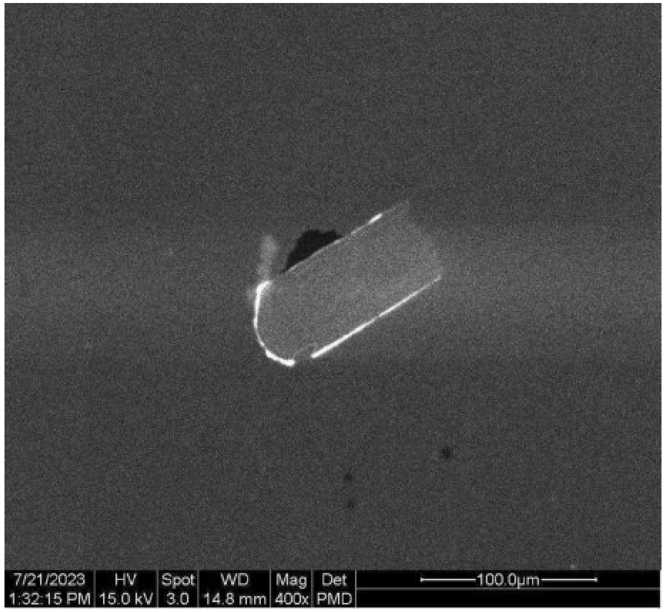
CG22JD01m1-
CL_039.tif



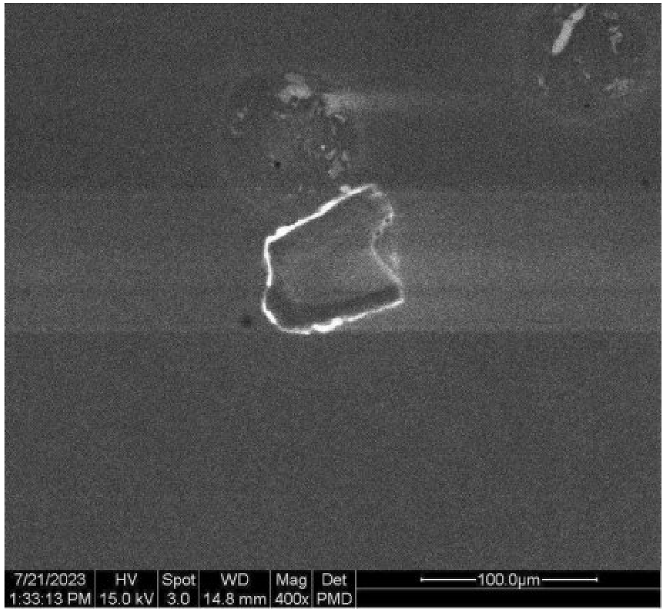
CG22JD01m1-
CL_040.tif



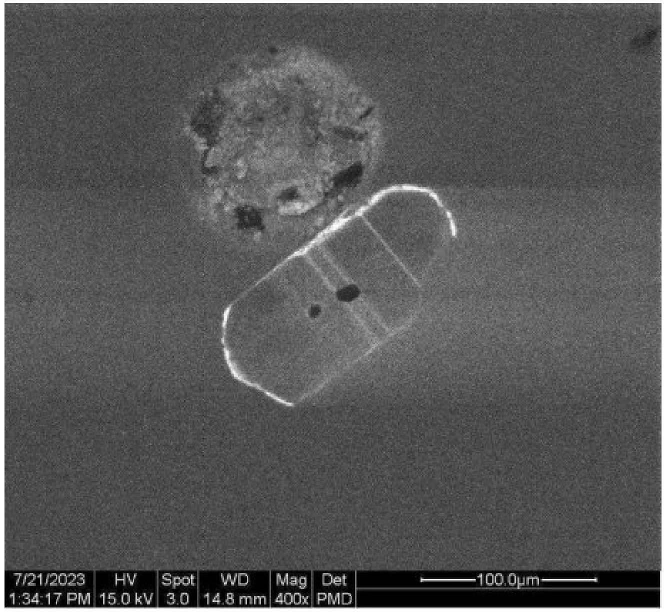
CG22JD01m1-
CL_041.tif



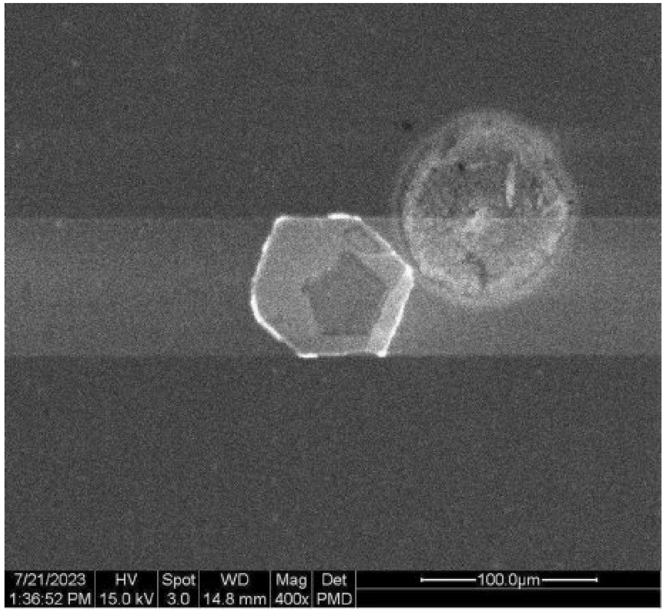
CG22JD01m1-
CL_042.tif



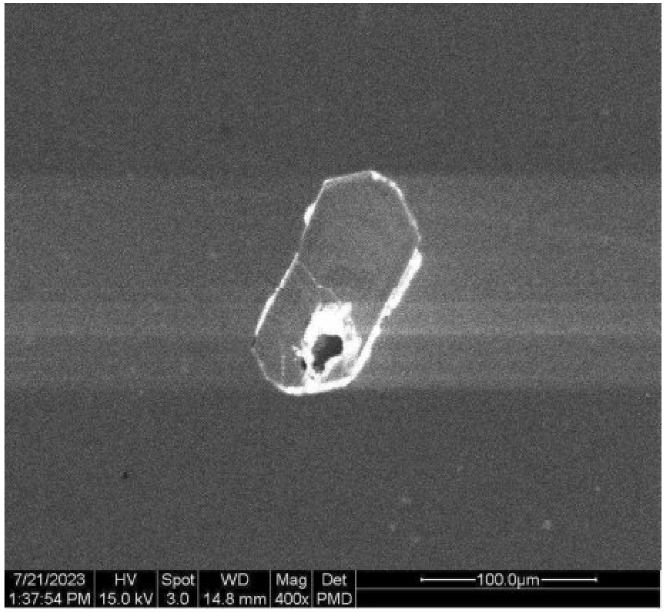
CG22JD01m1-
CL_043.tif



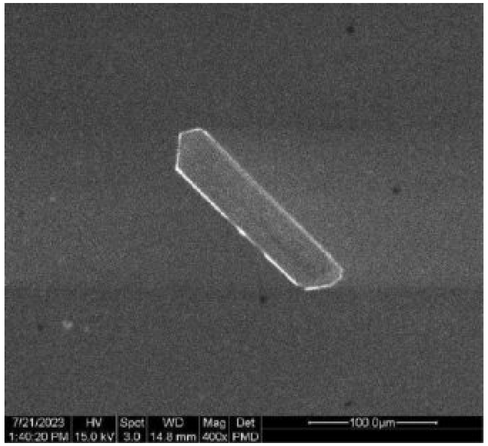
CG22JD01m1-
CL_044.tif



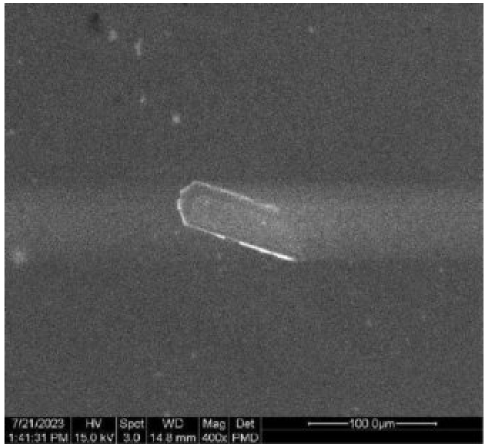
CG22JD01m1-
CL_045.tif



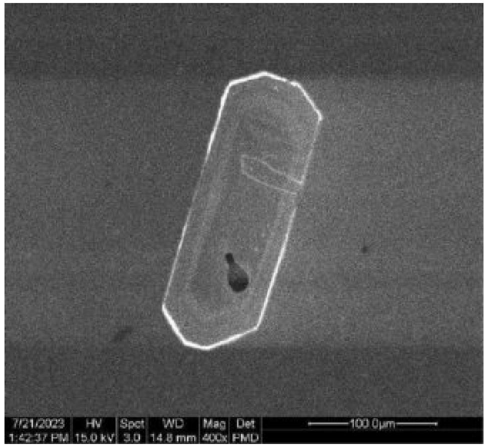
CG22JD01m1-
CL_046.tif



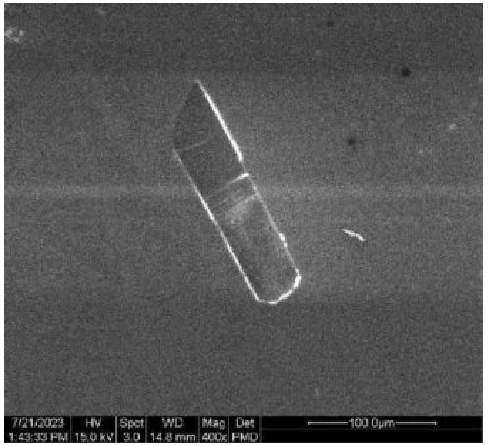
CG22JD01m1-
CL_047.tif



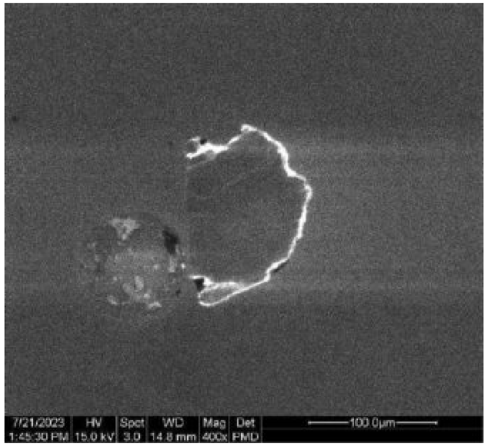
CG22JD01m1-
CL_048.tif



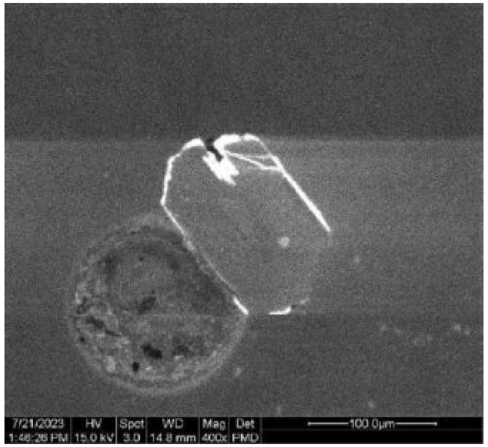
CG22JD01m1-
CL_049.tif



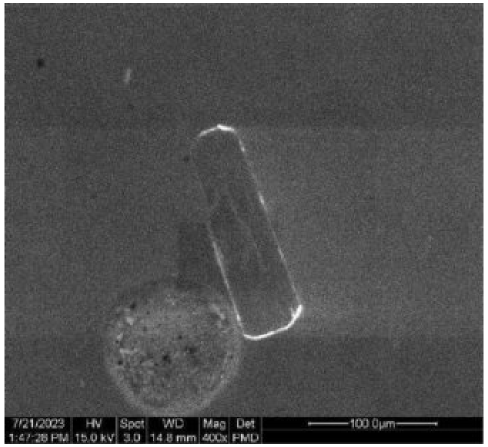
CG22JD01m1-
CL_050.tif



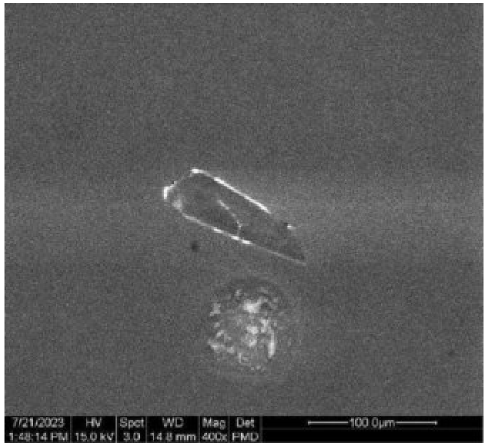
CG22JD01m1-
CL_051.tif



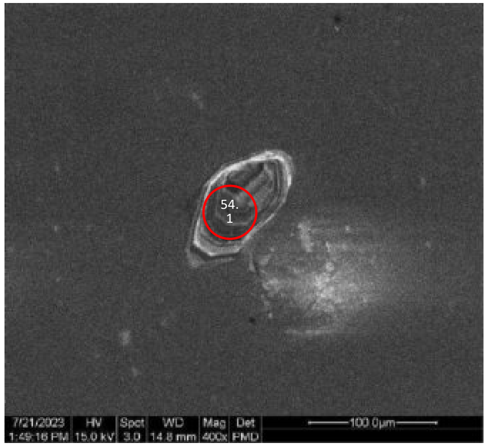
CG22JD01m1-
CL_052.tif



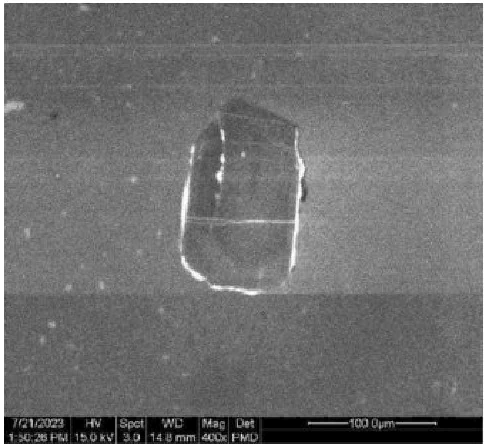
CG22JD01m1-
CL_053.tif



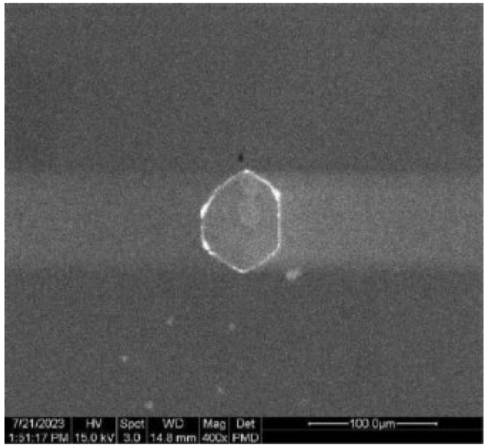
CG22JD01m1-
CL_054.tif



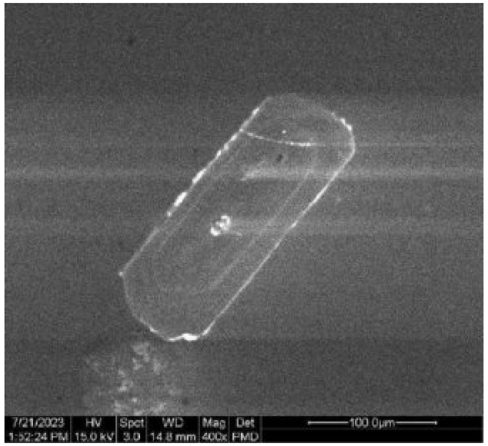
CG22JD01m1-
CL_055.tif



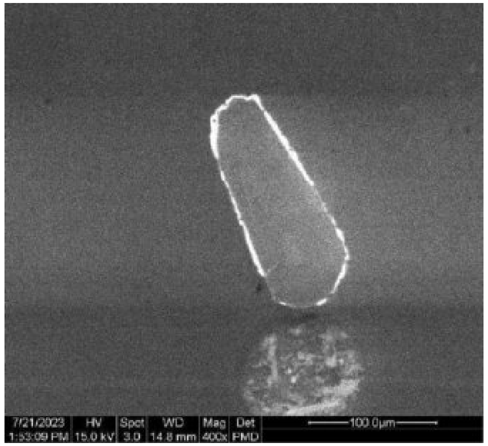
CG22JD01m1-
CL_056.tif



CG22JD01m1-
CL_057.tif



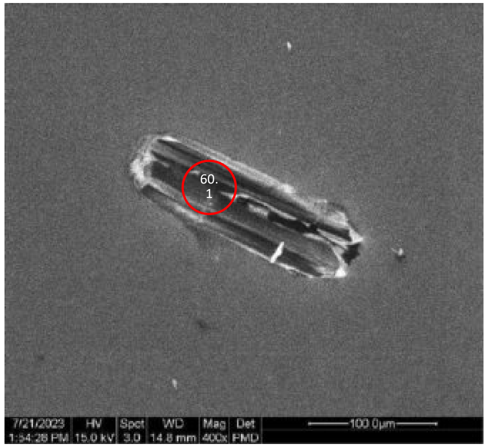
CG22JD01m1-
CL_058.tif



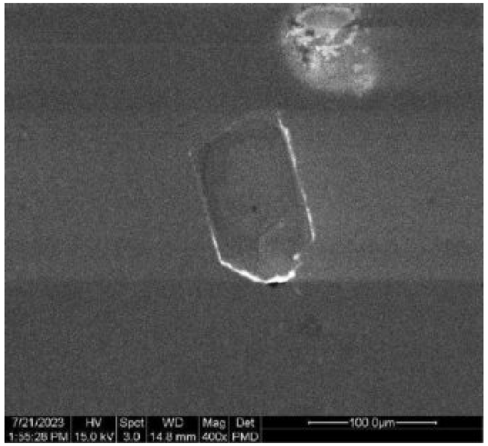
CG22JD01m1-
CL_059.tif

Too narrow
for a spot
to fit?

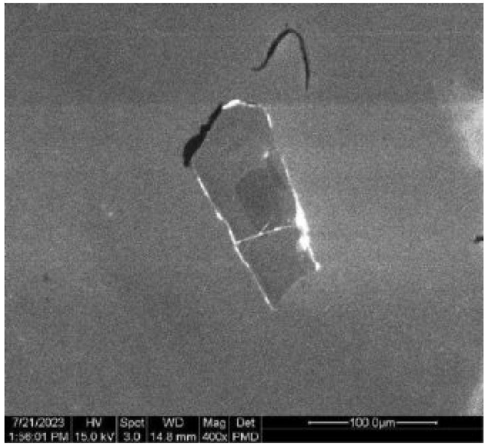
CG22JD01m1-
CL_060.tif



CG22JD01m1-
CL_061.tif



CG22JD01m1-
CL_062.tif



Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Discordant points

Emplacement zircons (i.e., zircons included in emplacement age calculation)

Potential trace element spots for further study

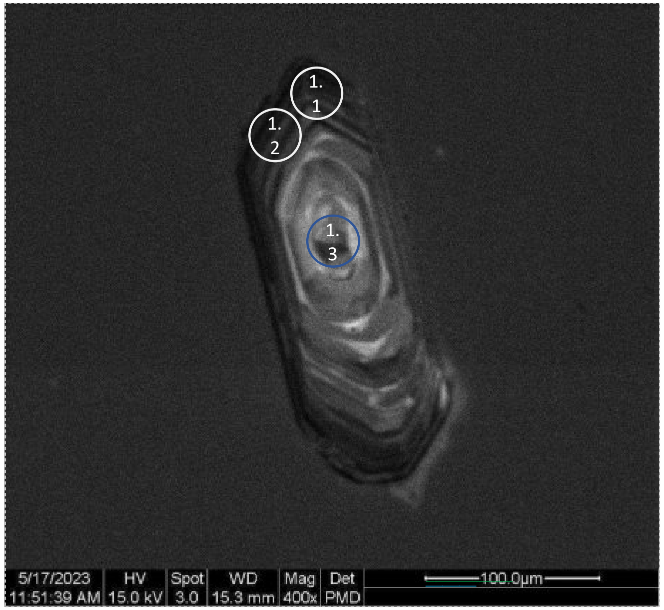
Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

Xenocrystic zircons (i.e., grains with spots > 425 Ma)

CM22SM01-CL_001.tiff

3x U-Pb

1.1, 1.2, 1.3



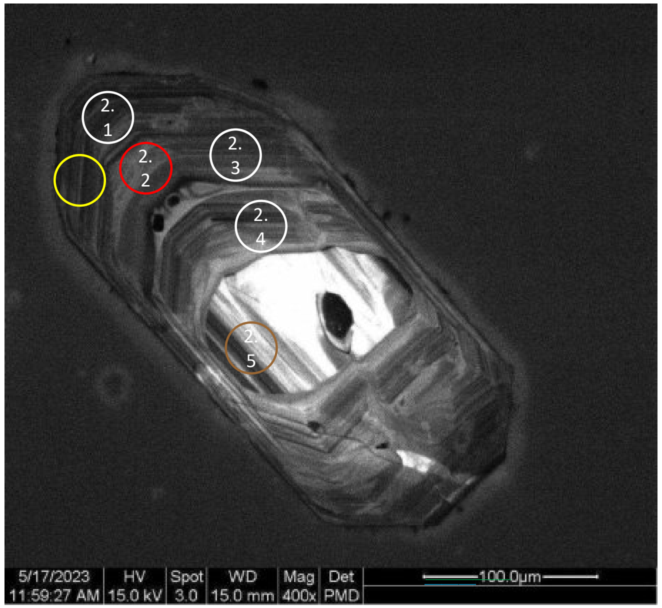
CM22SM01-CL_002.tiff

5x U-Pb

2.1, 2.2, 2.3, 2.4, 2.5

1x TE

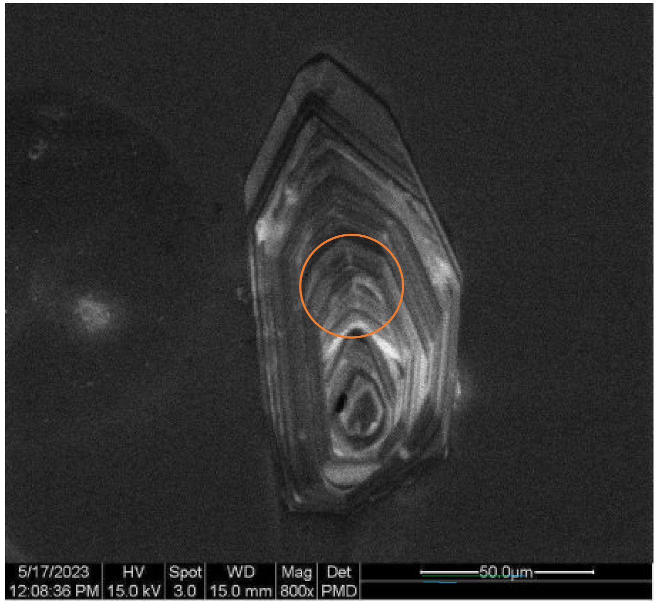
2.1



CM22SM01-CL_003.tiff

1x U-Pb

3.1



Pb loss and/or altered zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Emplacement zircons (i.e., zircons included in emplacement age calculation)

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

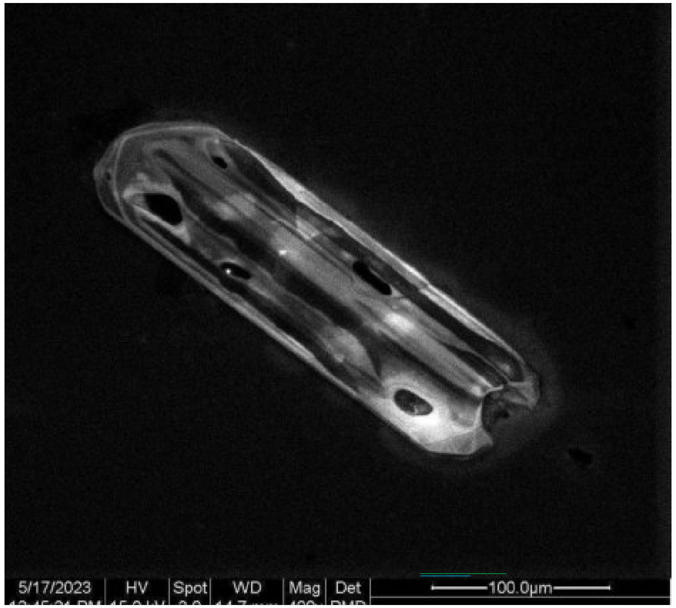
Xenocrystic zircons (i.e., grains with spots > 425 Ma)

Discordant points

Potential trace element spots for further study

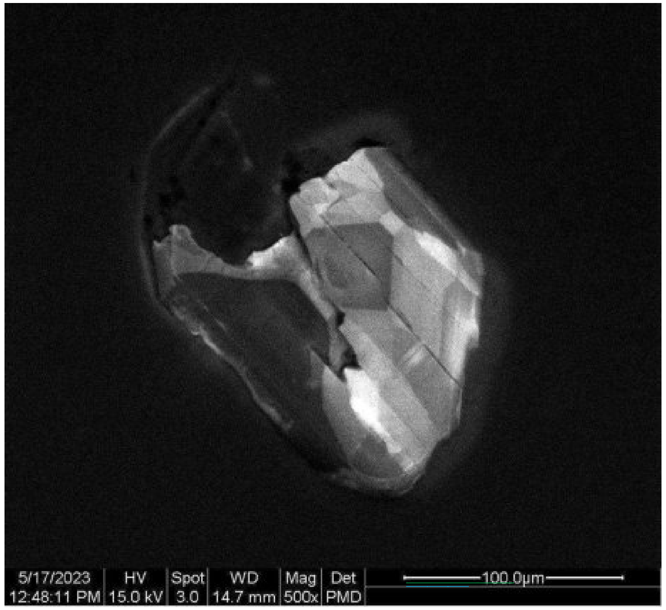
CM22SM02-CL_001.tif

Grain is too messy/altered (Pb-loss??), hard to distinguish between any zones.



CM22SM02-CL_002.tif

Sector zoning?

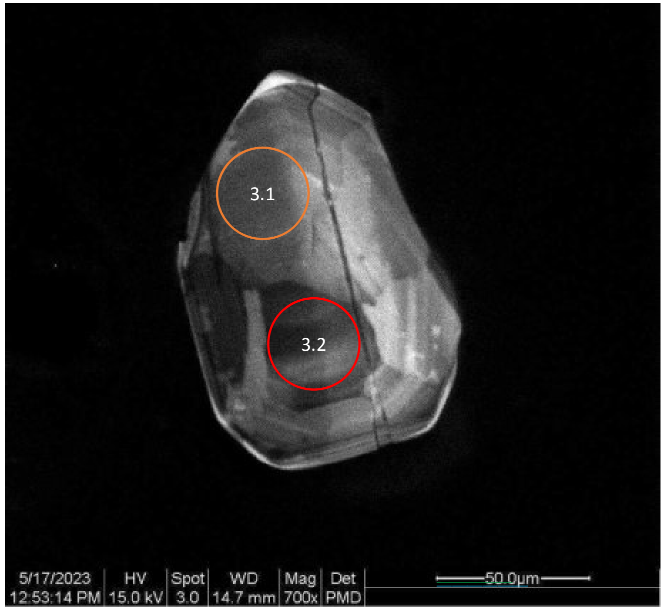


CM22SM02-CL_003.tif

Sector zoning?

2x U-Pb

3.1, 3.2

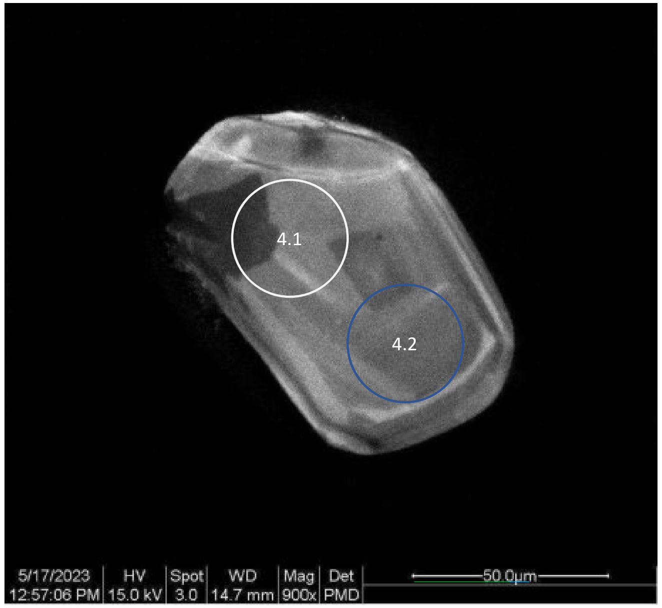


CM22SM02-
CL_004.tif

Sector zoning?

2x U-Pb

4.1, 4.2



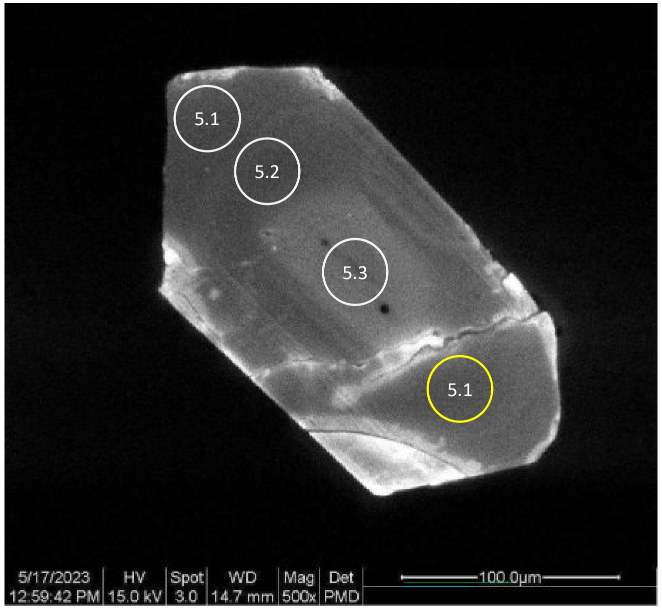
CM22SM02-
CL_005.tif

3x U-Pb

5.1, 5.2, 5.3

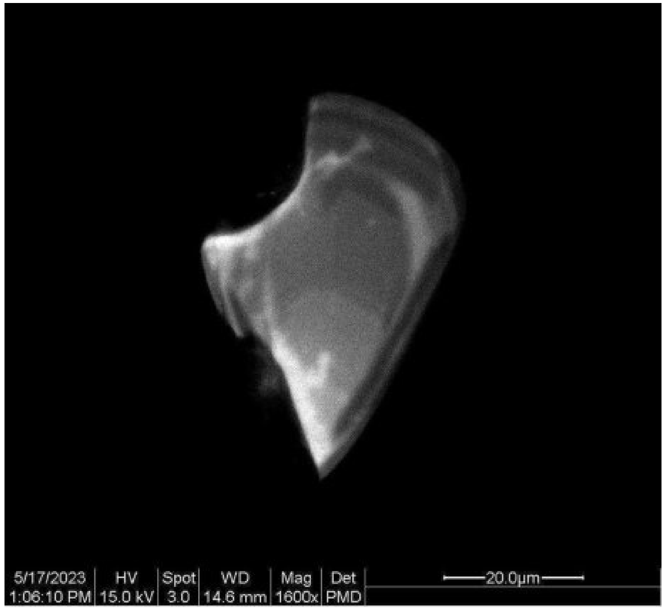
1x TE **(??)**

5.1



CM22SM02-
CL_006.tif

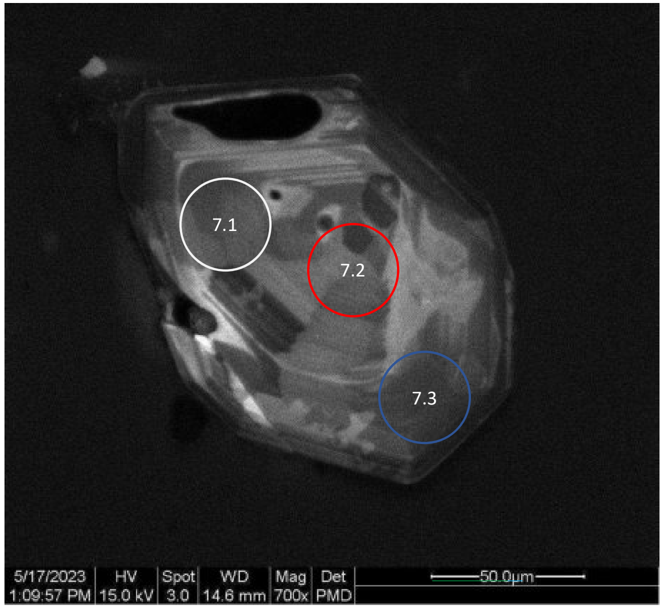
Too small.



CM22SM02-
CL_007.tif

3x U-Pb

7.1, 7.2, 7.3



CM22SM02-
CL_008.tif

1x U-Pb

8.1

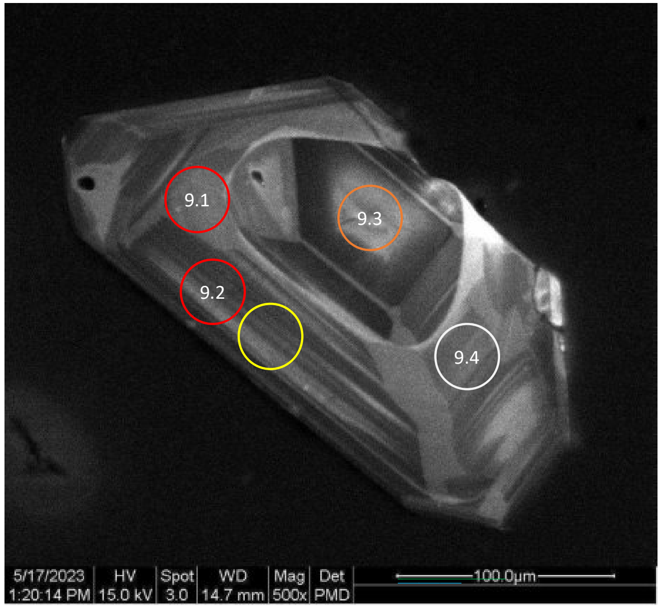
CM22SM02-
CL_009.tif

4x U-Pb

9.1, 9.2, 9.3, 9.4

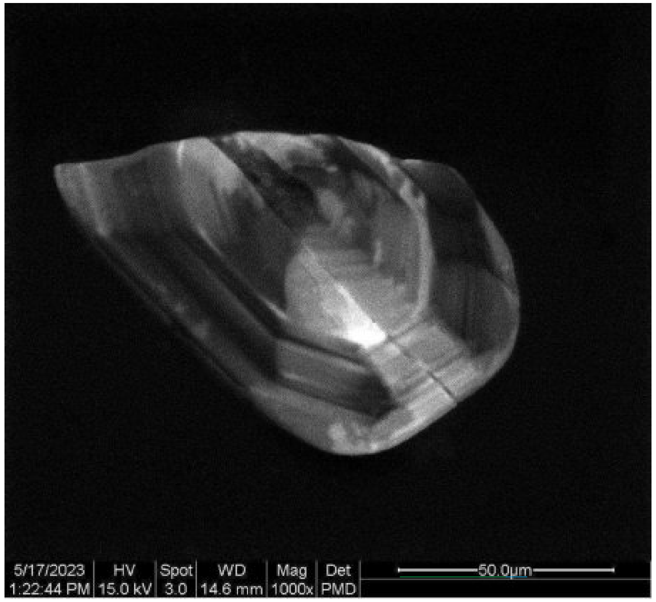
1x TE

9.1



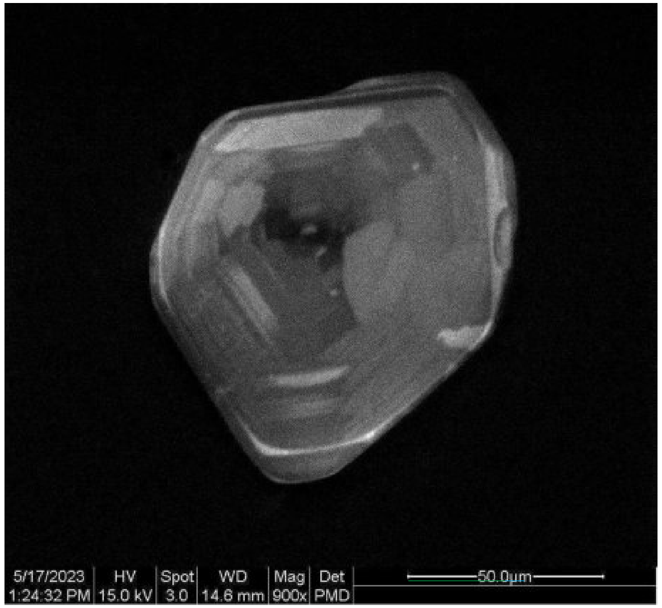
CM22SM02-
CL_010.tif

Fractured/zones too small for 30 micron laser spot.



CM22SM02-
CL_011.tif

Zones too small for 30 micron laser spot.



CM22SM02-
CL_012.tif

1x U-Pb

12.1

CM22SM02-
CL_013.tif

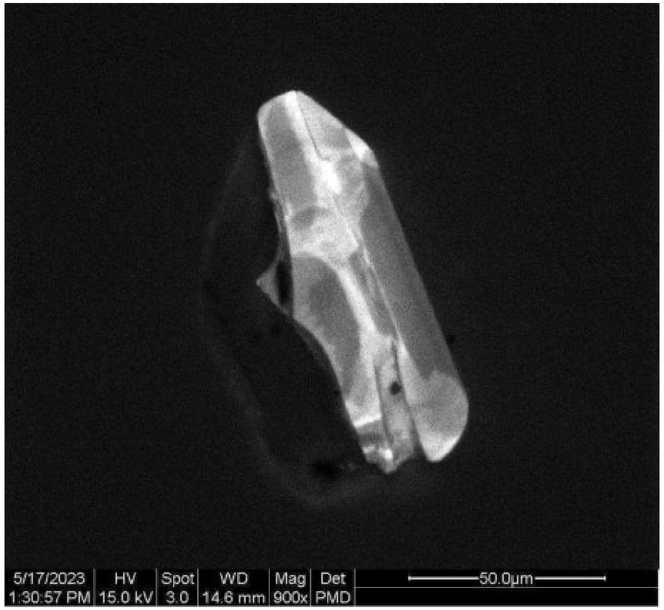
Not sure if this spot is including different zones or not? They all look fairly similar (concentric), just the colour that's different – Pb loss? Alteration?

1x U-Pb

13.1

CM22SM02-
CL_014.tif

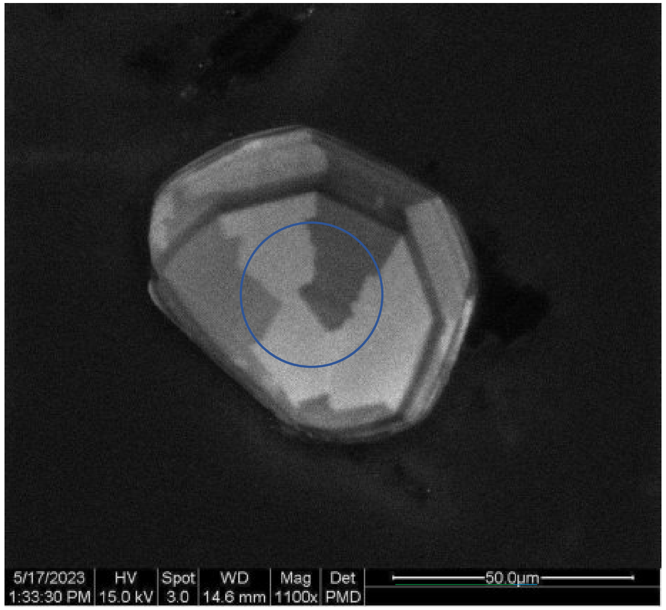
Too fractured/too small for laser spot.



CM22SM02-
CL_015.tif

1x U-Pb

15.1



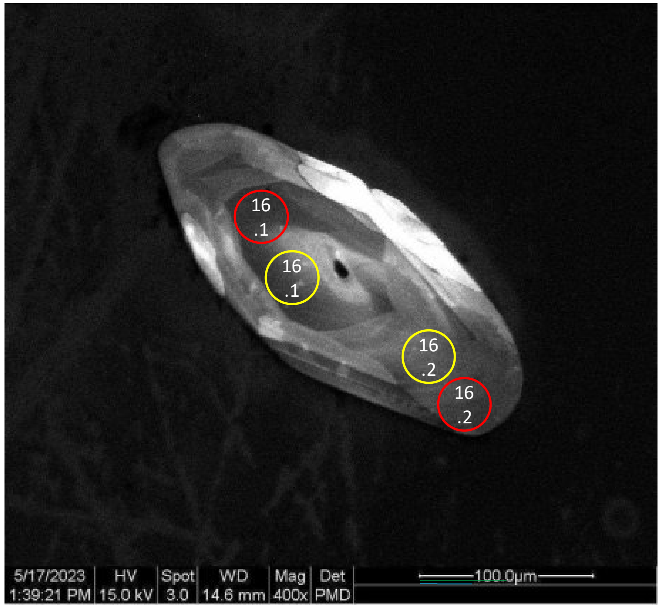
CM22SM02-
CL_016.tif

2x U-Pb

16.1, 16.2

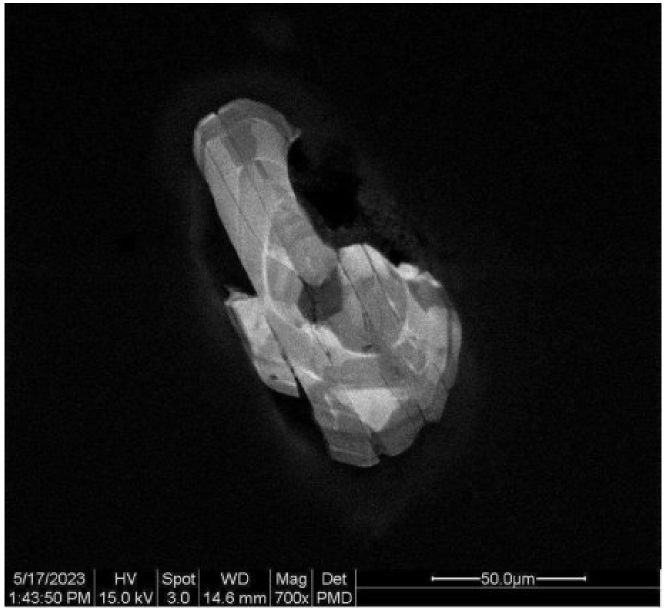
2x TE

16.1, 16.2



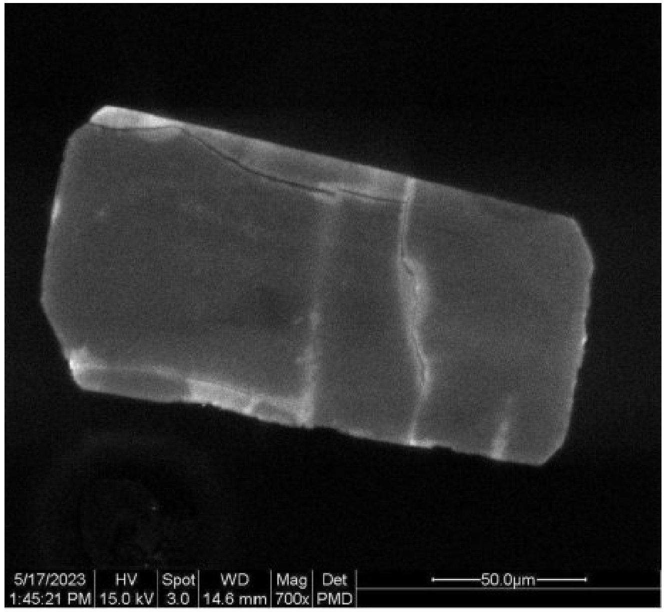
CM22SM02-
CL_017.tif

No analysis. Too fractured/too much of the zircon missing.



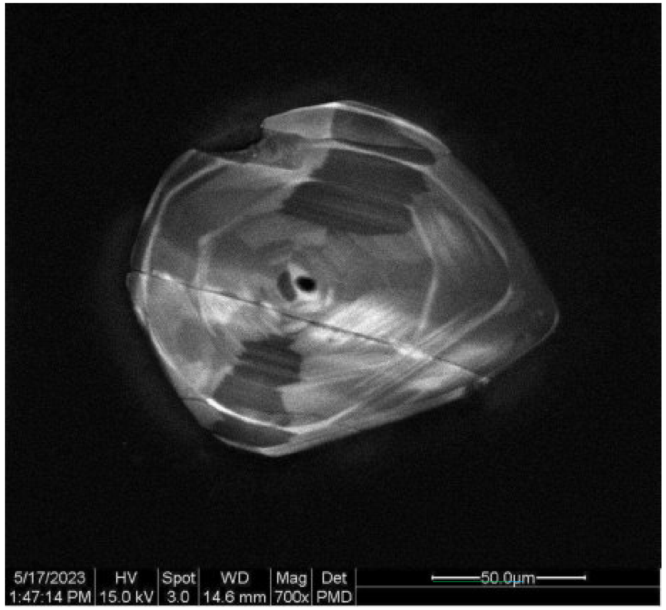
CM22SM02-
CL_018.tif

Apatite, could analyse with apatite stubs?



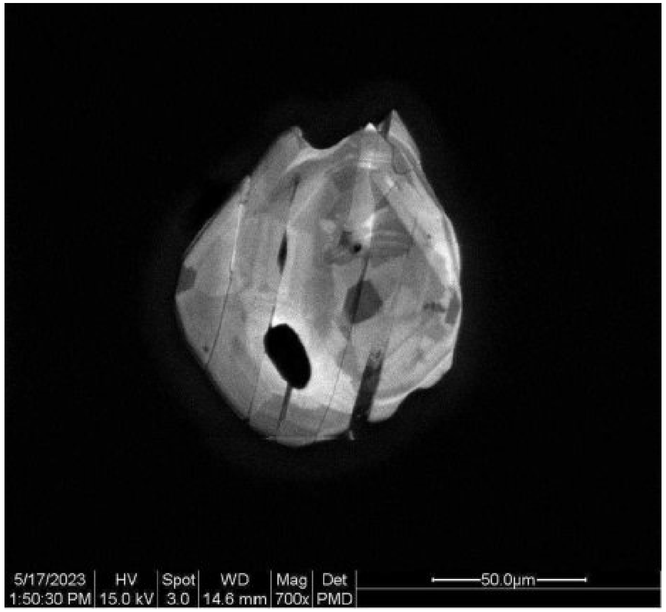
CM22SM02-
CL_019.tif

No analysis. Zones too small and lots of overlapping/cross-cutting zones.



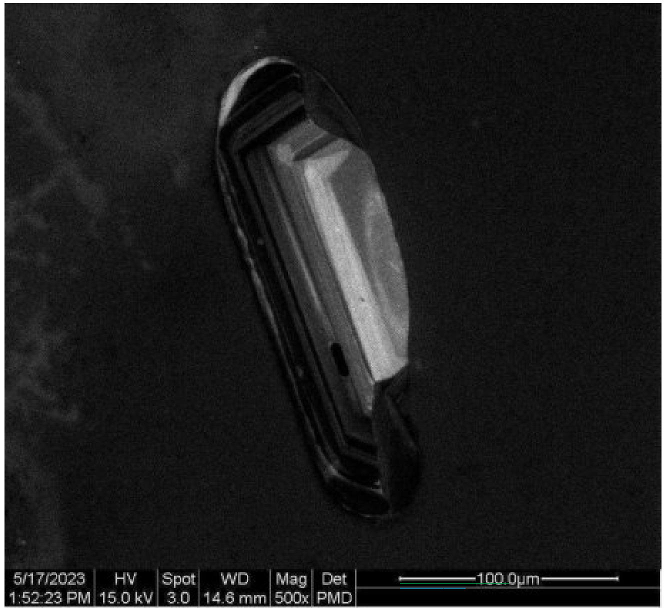
CM22SM02-CL_020.tif

No analysis. Too fractured.



CM22SM02-CL_021.tif

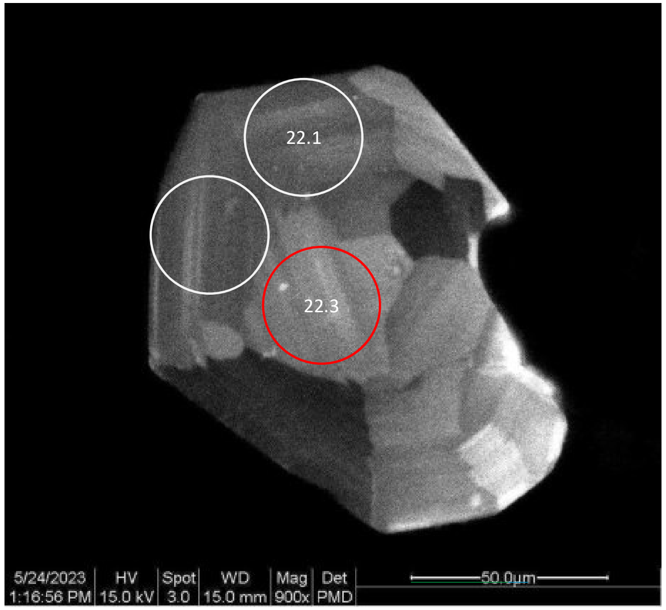
No analysis. Zones are too small for laser spot.



CM22SM02-CL_022.tif

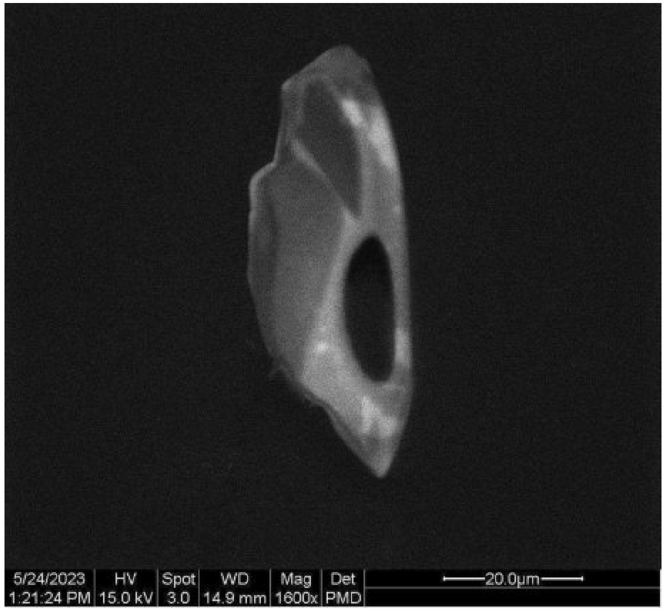
3x U-Pb

22.1, 22.2, 22.3



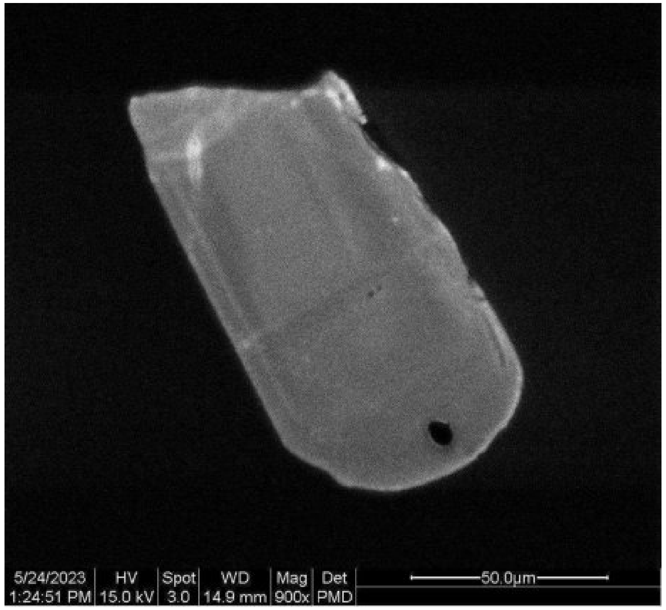
CM22SM02-CL_023.tif

No analysis. Too small.



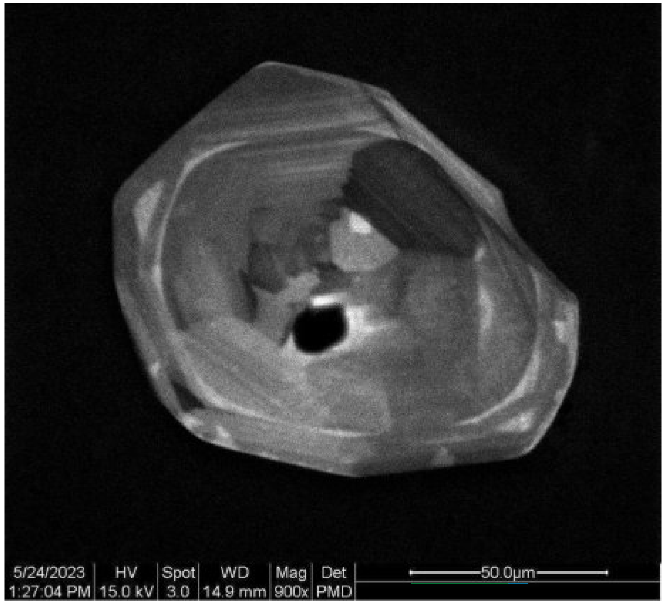
CM22SM02-
CL_024.tif

No analysis.
Apatite??



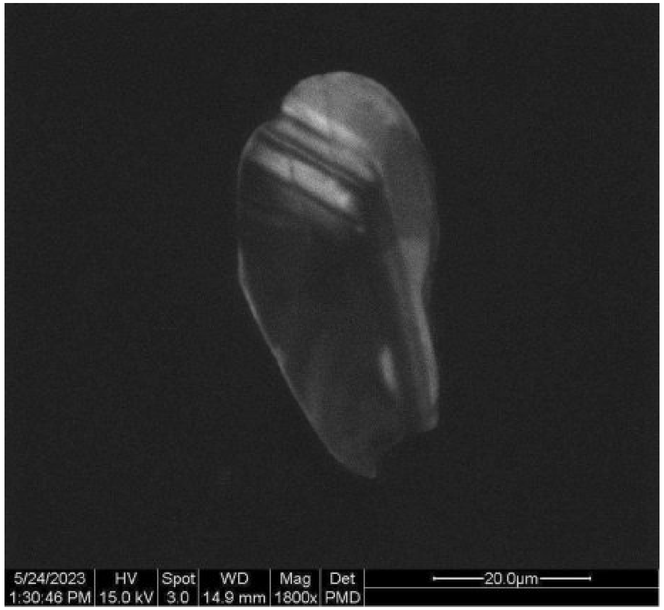
CM22SM02-
CL_025.tif

No analysis. Zones
too small & lots of
overlapping/cross
cutting zones.



CM22SM02-
CL_026.tif

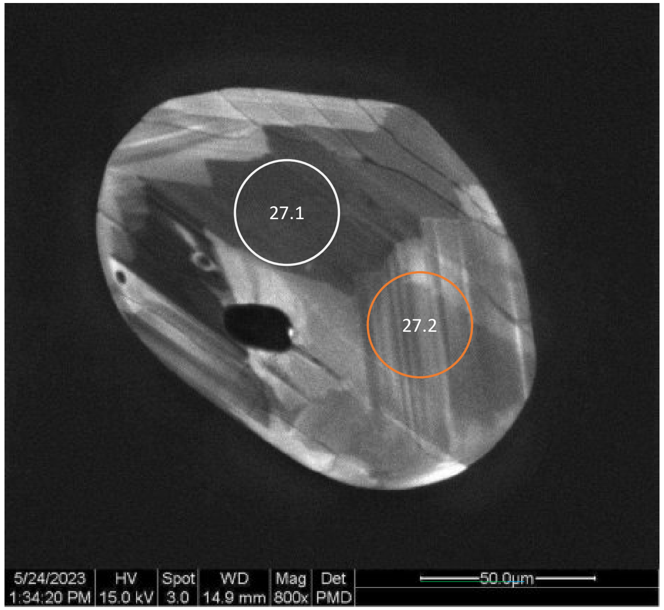
No analysis. Grain
too small.



CM22SM02-
CL_027.tif

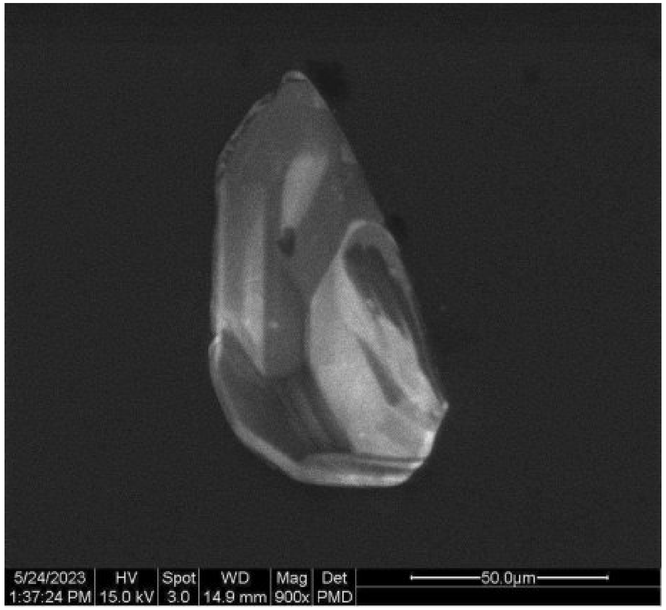
2x U-Pb

27.1, 27.2



CM22SM02-
CL_028.tif

No analysis. Zones are too small.



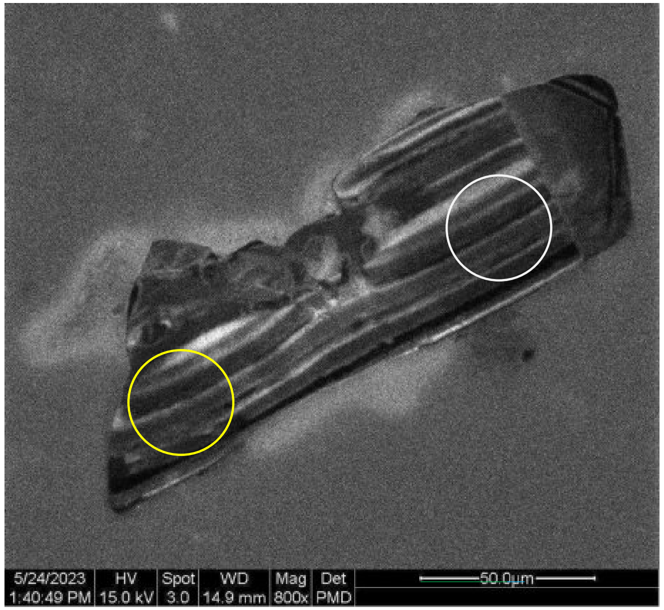
CM22SM02-
CL_029.tif

1x U-Pb

29.1

1x TE

29.1



CM22SM02-
CL_030.tif

1x U-Pb

30.1

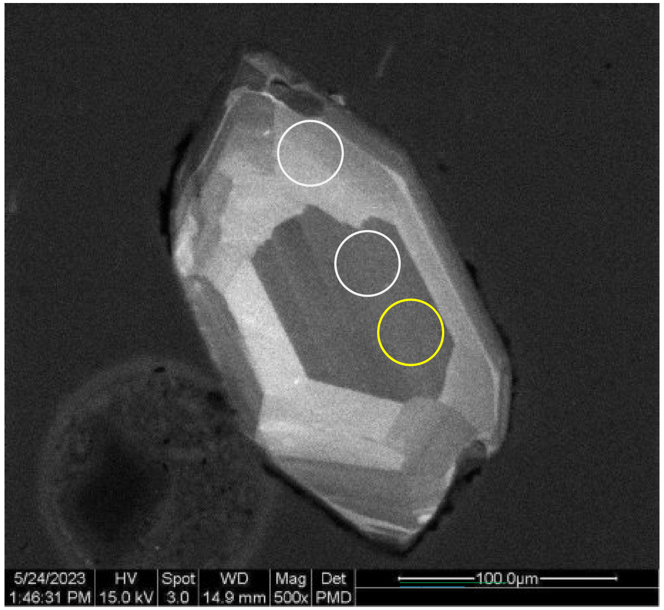
CM22SM02-
CL_031.tif

2x U-Pb

31.1, 31.2

1x TE

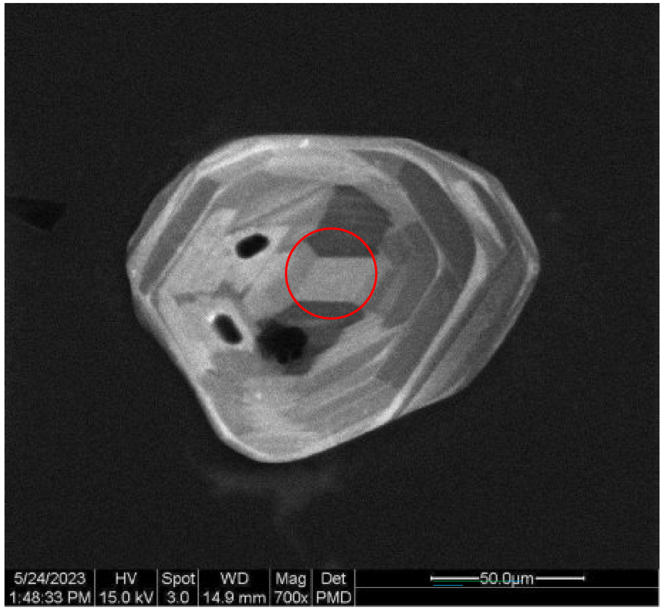
31.1



CM22SM02-CL_032.tif

1x U-Pb

32.1



CM22SM02-CL_033.tif

1x U-Pb

33.1

Zones too small / too much overlapping and cross-cutting zones for any more laser spots.

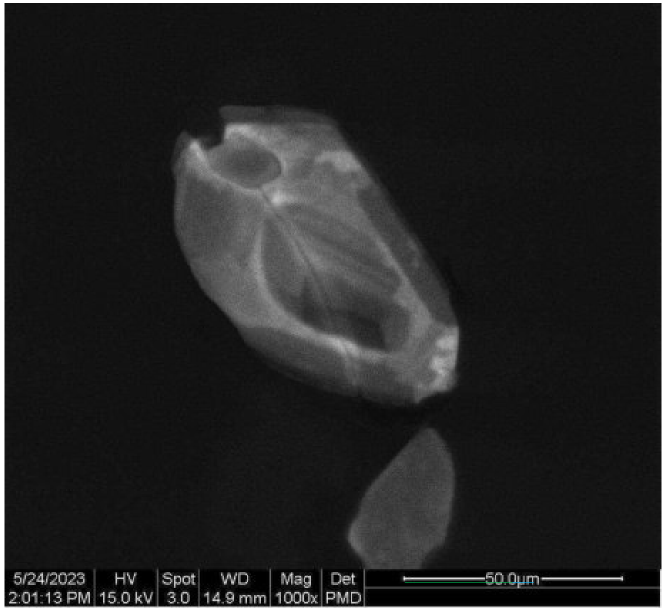
CM22SM02-CL_034.tif

1x U-Pb

34.1

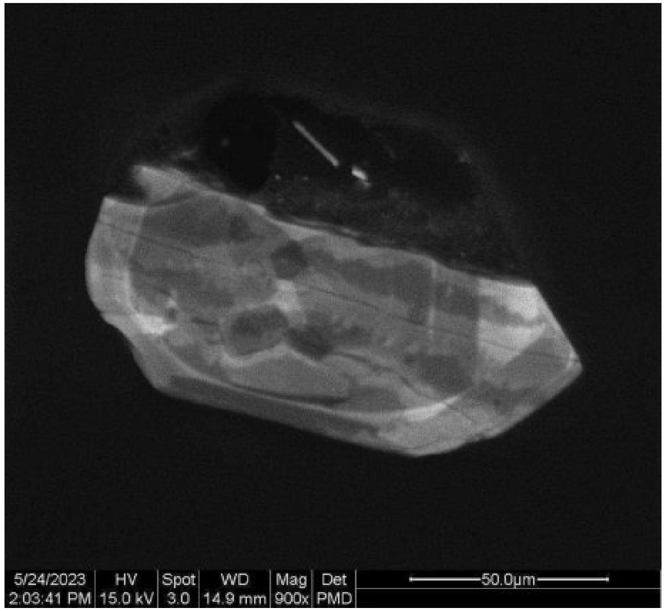
CM22SM02-CL_035.tif

No analysis, grain too small/fractured/zones too small.



CM22SM02-
CL_036.tif

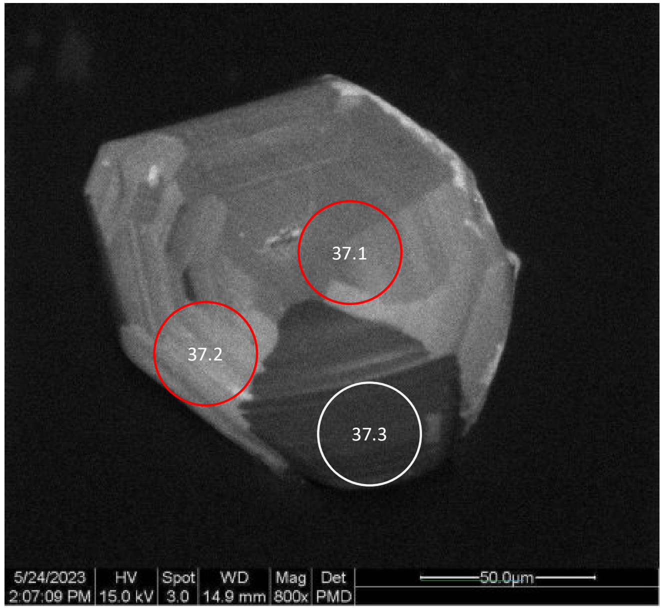
No analysis.



CM22SM02-
CL_037.tif

3x U-Pb

37.1, 37.2, 37.3



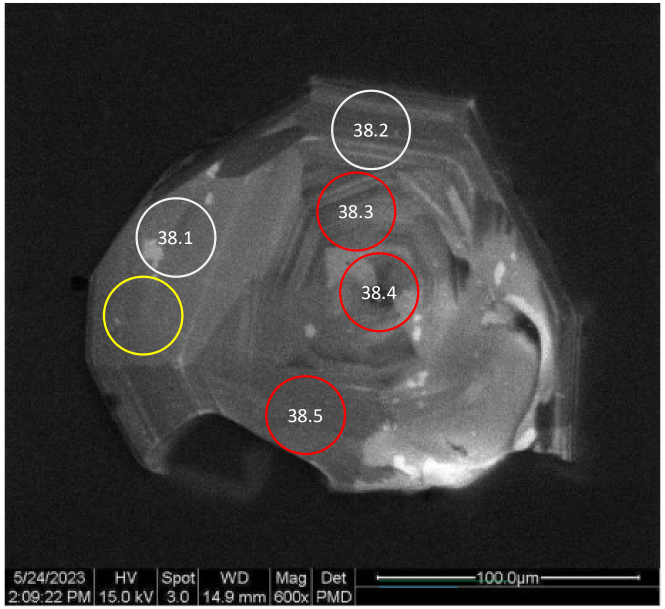
CM22SM02-
CL_038.tif

5x U-Pb

38.1, 38.2, 38.3,
38.4, 38.5

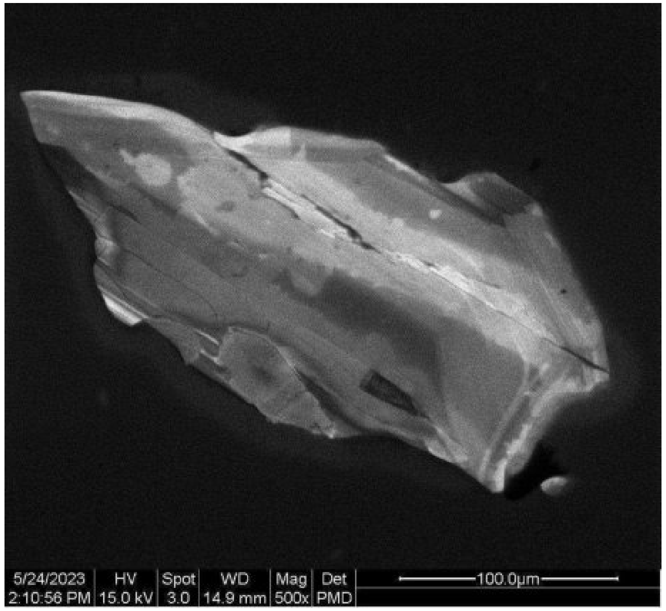
1x TE

38.1



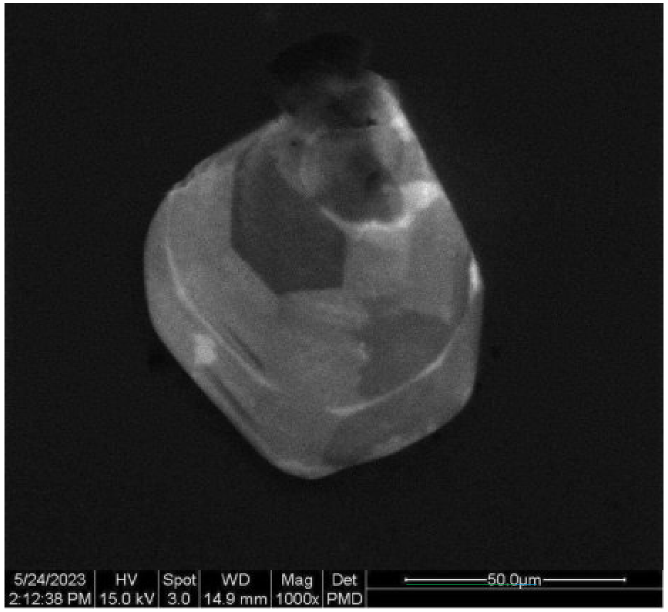
CM22SM02-
CL_039.tif

No analysis.

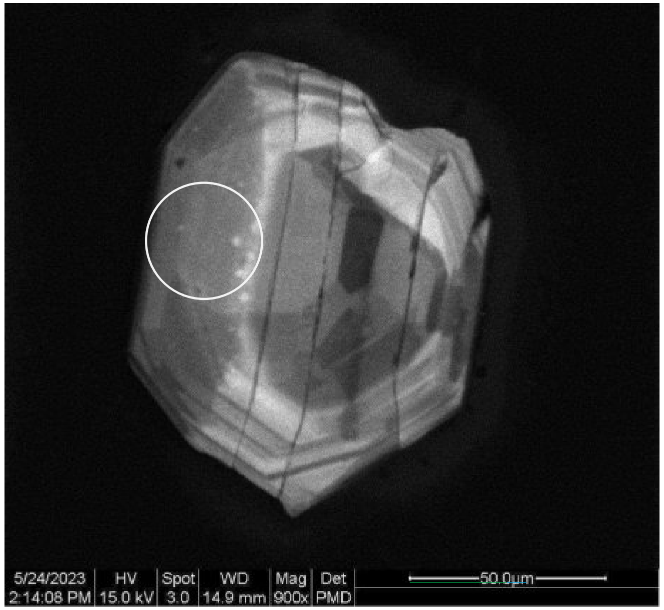


CM22SM02-
CL_040.tif

No analysis – too altered? May be sector zoning? Zones aren't clear/too small.



CM22SM02-
CL_041.tif



Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Emplacement zircons (i.e., zircons included in emplacement age calculation)

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

Xenocrystic zircons (i.e., grains with spots > 425 Ma)

Discordant points

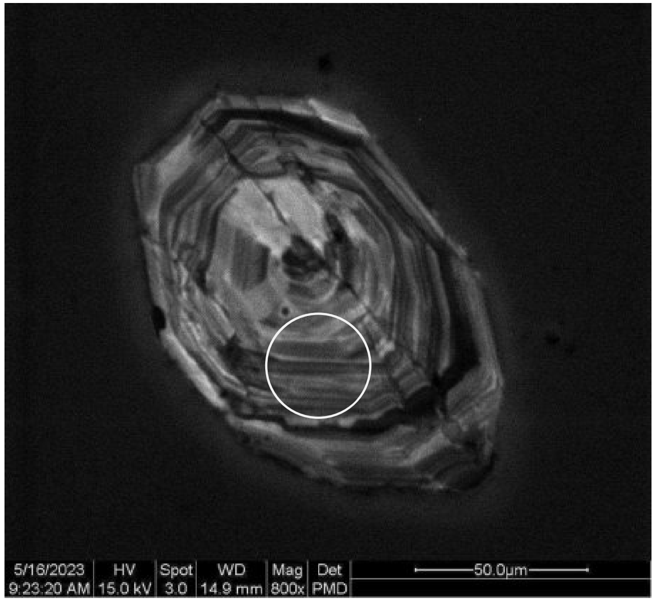
Potential trace element spots for further study

BG01_b1

CG22BG01-
B1_CL_001.tiff

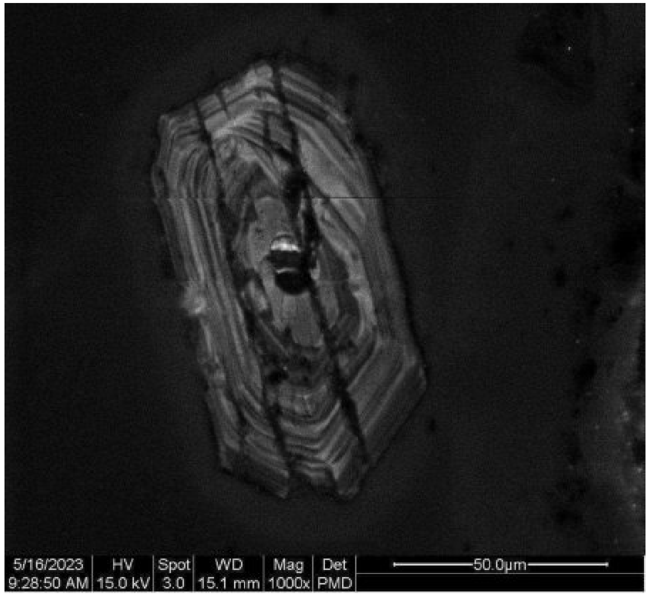
1x U-Pb

1.1



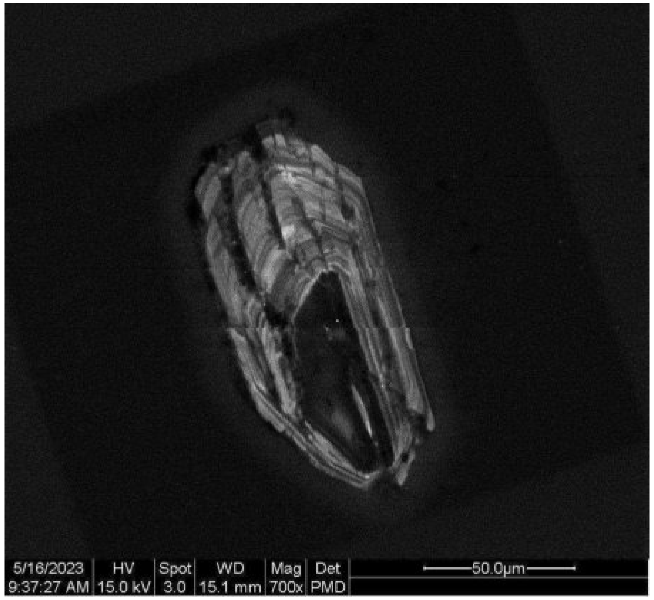
CG22BG01-
B1_CL_002.tiff

No analysis,
too many
fractures!



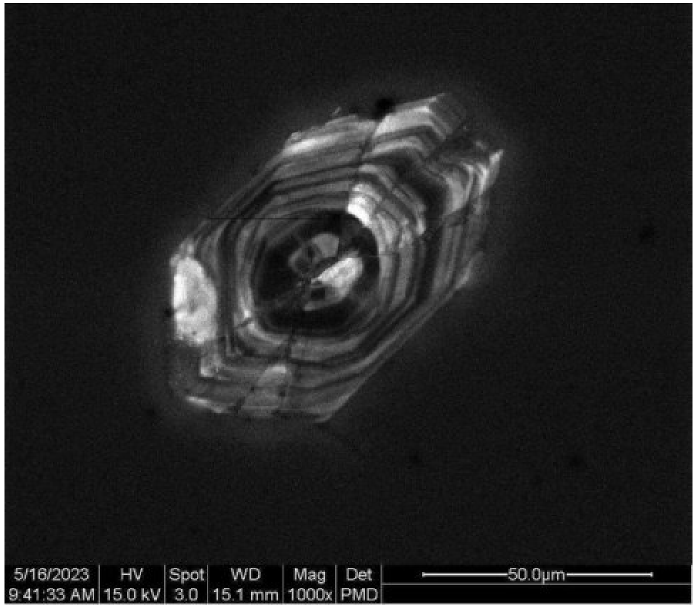
CG22BG01-
B1_CL_003.tiff

No analysis,
too many
fractures!



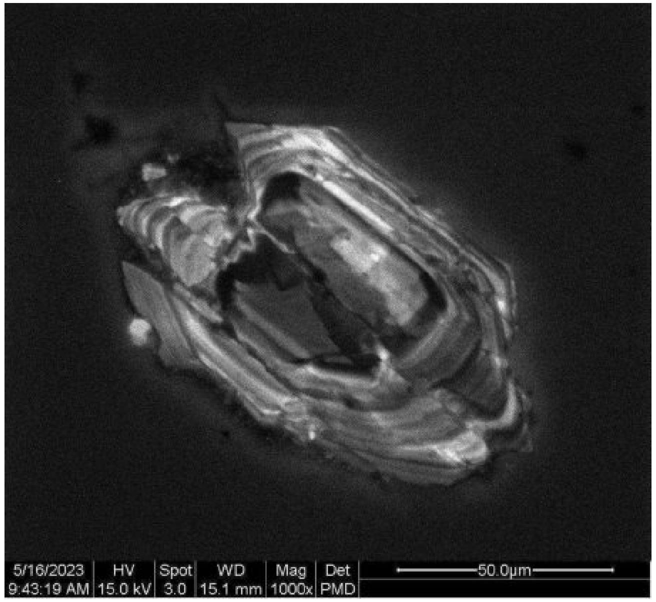
CG22BG01-
B1_CL_004.tiff

No analysis,
too many
fractures/grain
to small!



CG22BG01-B1_CL_005.tiff

No analysis, grain is too altered.



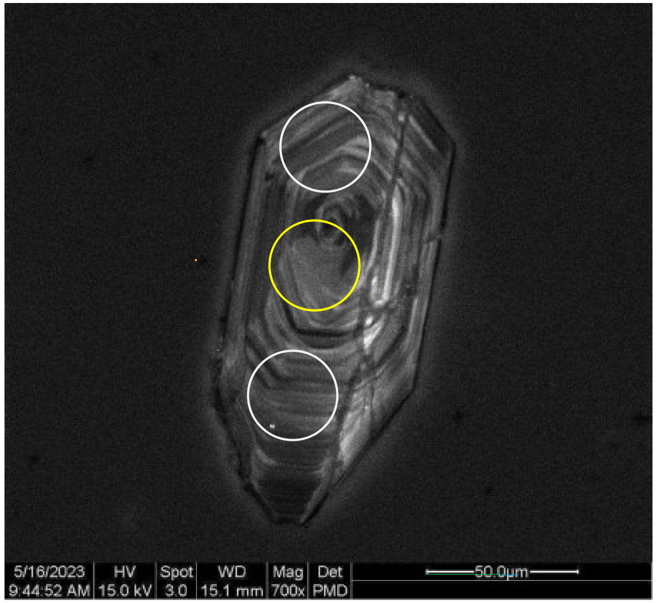
CG22BG01-B1_CL_006.tiff

2x U-Pb

6.1, 6.2

1x TE (??)

6.1



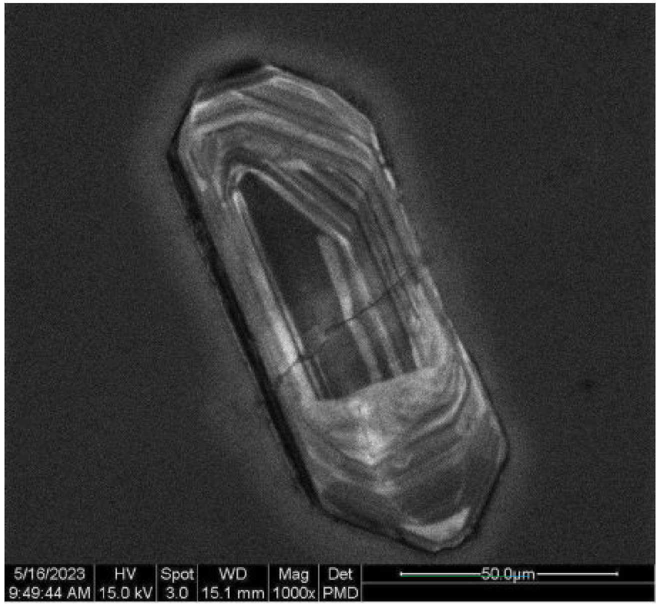
CG22BG01-B1_CL_007.tiff

1x U-Pb

7.1

CG22BG01-B1_CL_008.tiff

No analysis



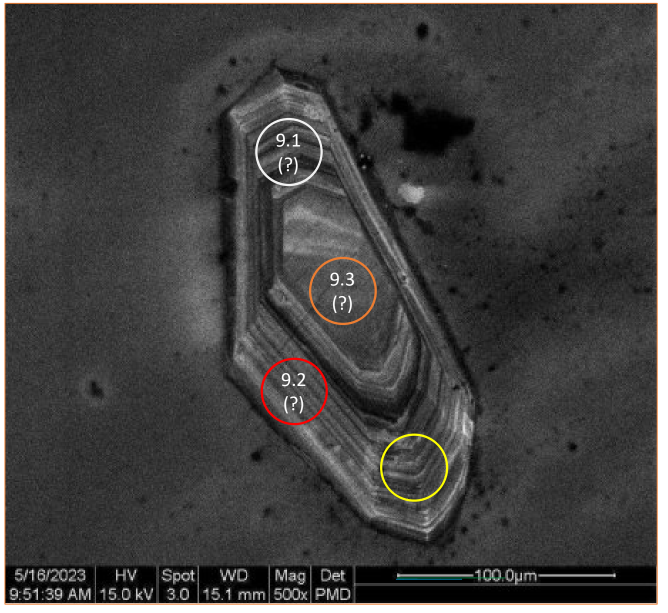
CG22BG01-B1_CL_009.tiff

3x U-Pb

9.1, 9.2, 9.3

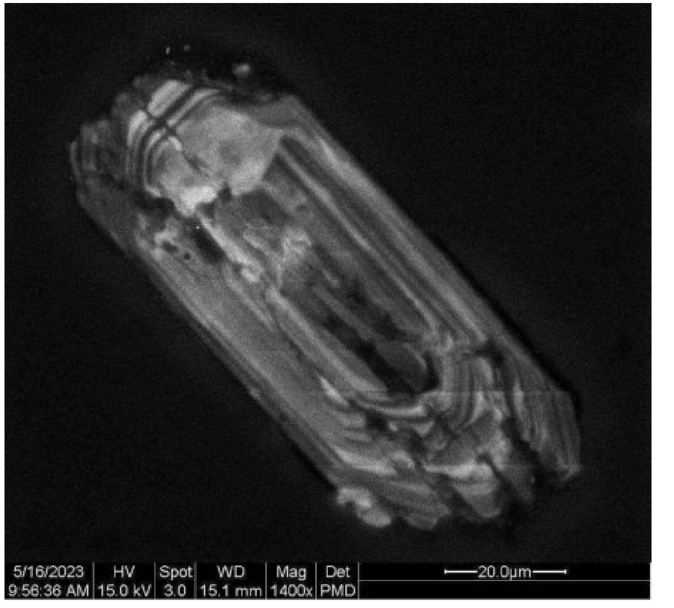
1x TE

9.1



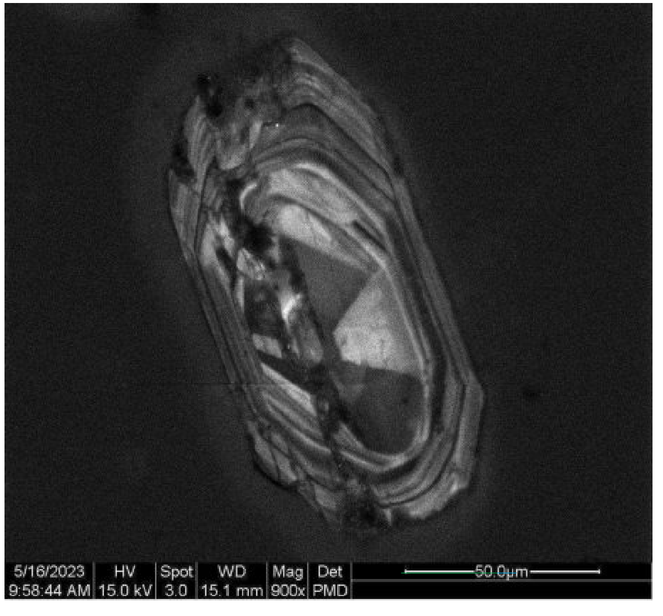
CG22BG01-B1_CL_010.tiff

No analysis, grain is too altered/too small.



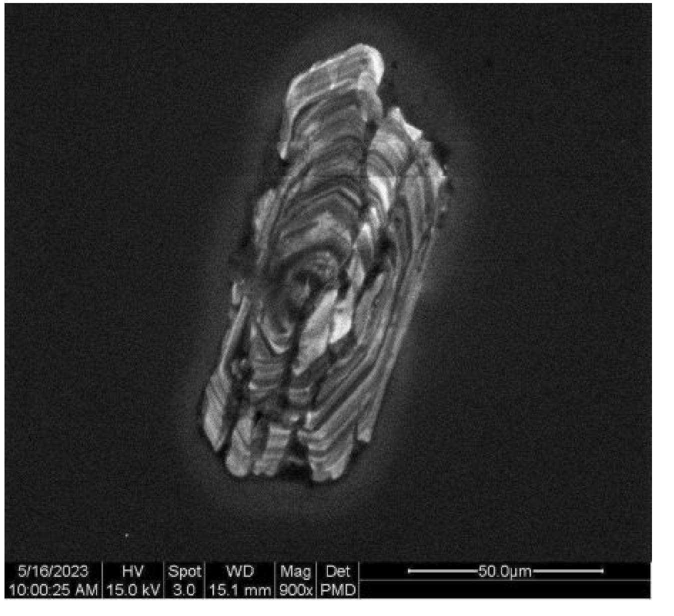
CG22BG01-B1_CL_011.tiff

No analysis, grain is too altered/too small.



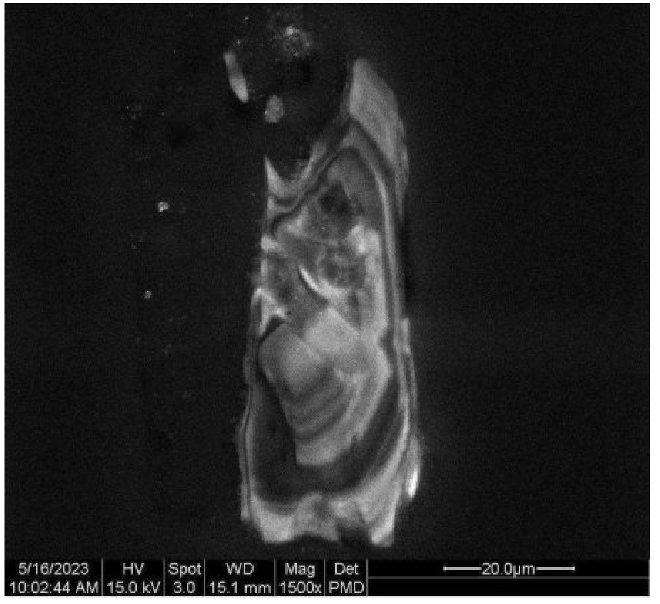
CG22BG01-B1_CL_012.tiff

No analysis, grain is too altered/fractured.



CG22BG01-
B1_CL_013.tiff

No analysis, grain is too altered/fractured.



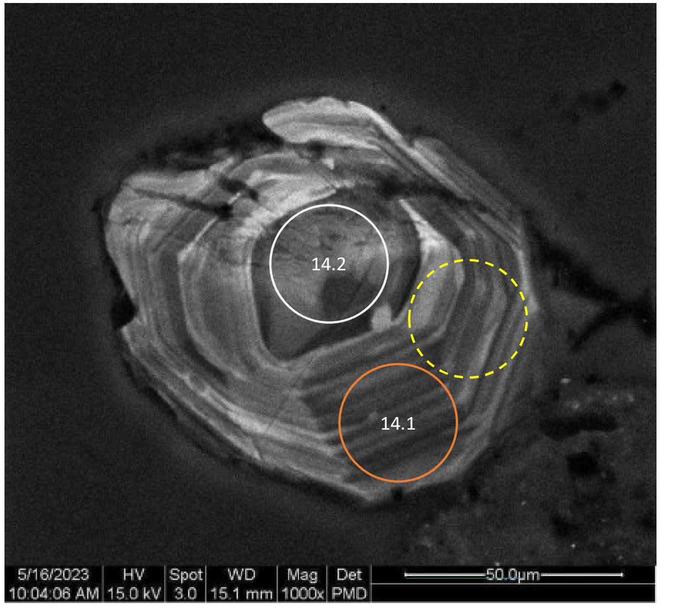
CG22BG01-
B1_CL_014.tiff

2x U-Pb

14.1, 14.2

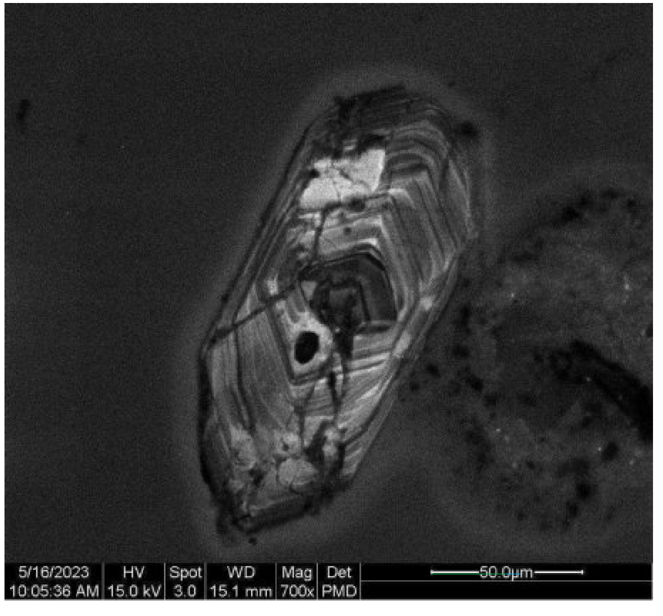
1x TE

14.1



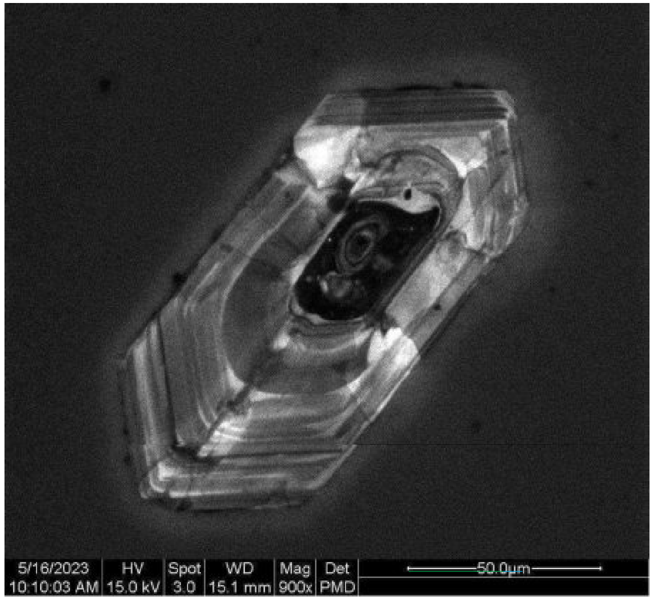
CG22BG01-
B1_CL_015.tiff

No analysis



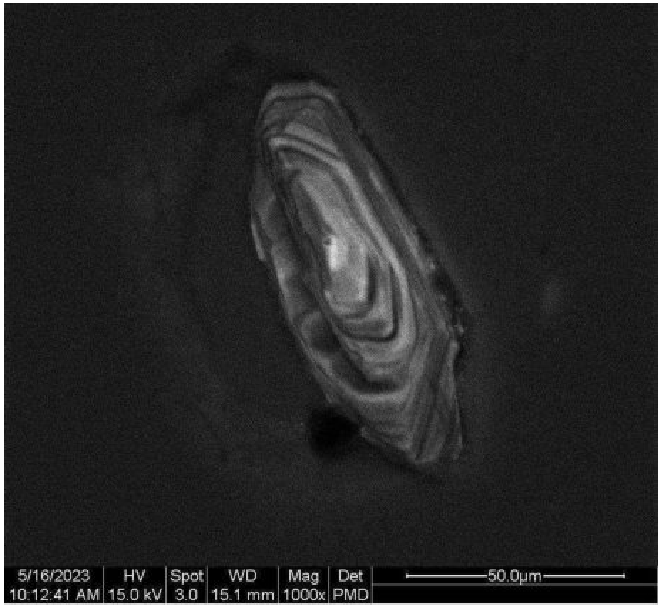
CG22BG01-
B1_CL_016.tiff

No analysis



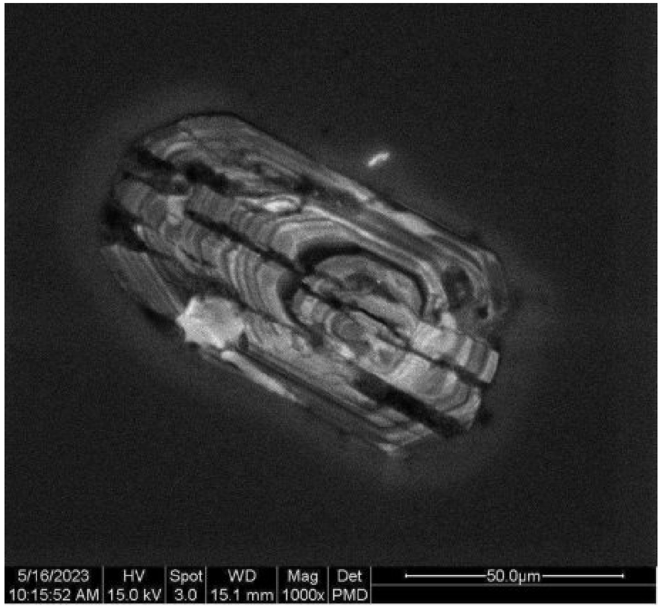
CG22BG01-B1_CL_017.tiff

No analysis, grain is too altered.



CG22BG01-B1_CL_018.tiff

No analysis, grain is too altered/fractured.



CG22BG01-B1_CL_019.tiff

1x U-Pb

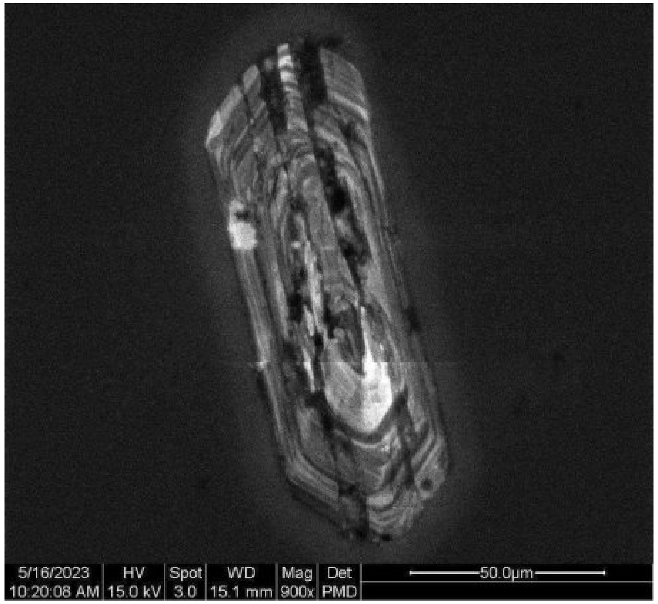
19.1

1x TE

19.1

CG22BG01-B1_CL_020.tiff

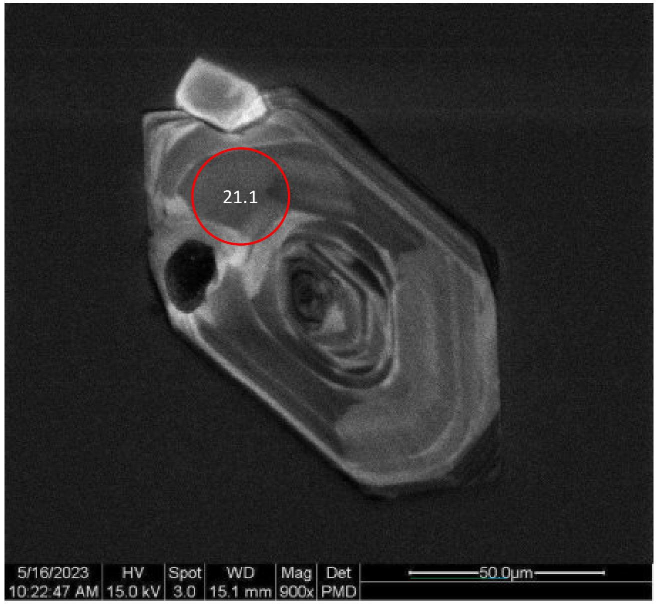
No analysis, grain is too altered/fractured.



CG22BG01-
B1_CL_021.tiff

1x U-Pb

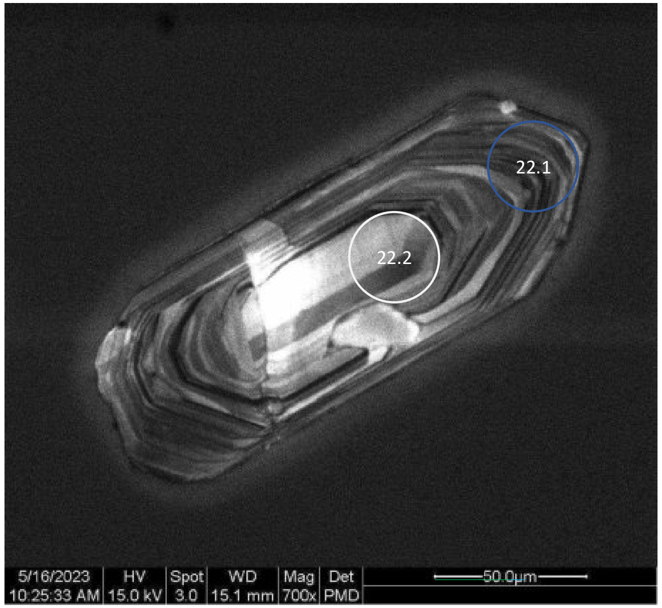
21.1



CG22BG01-
B1_CL_022.tiff

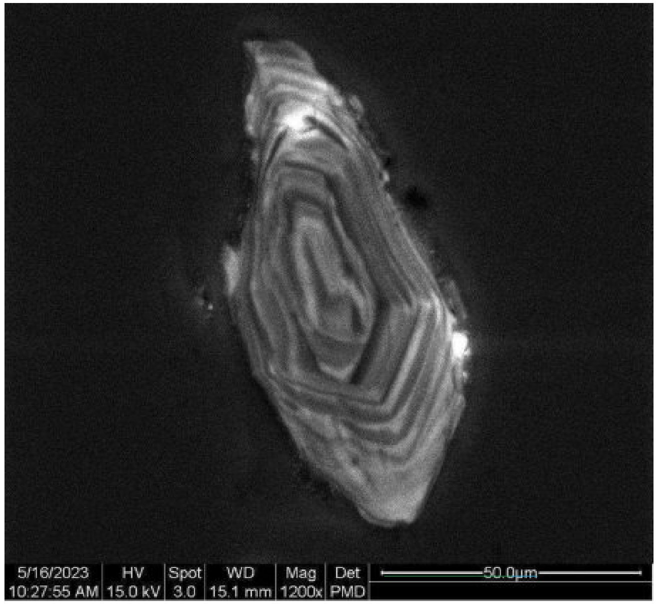
2x U-Pb

22.1, 22.2



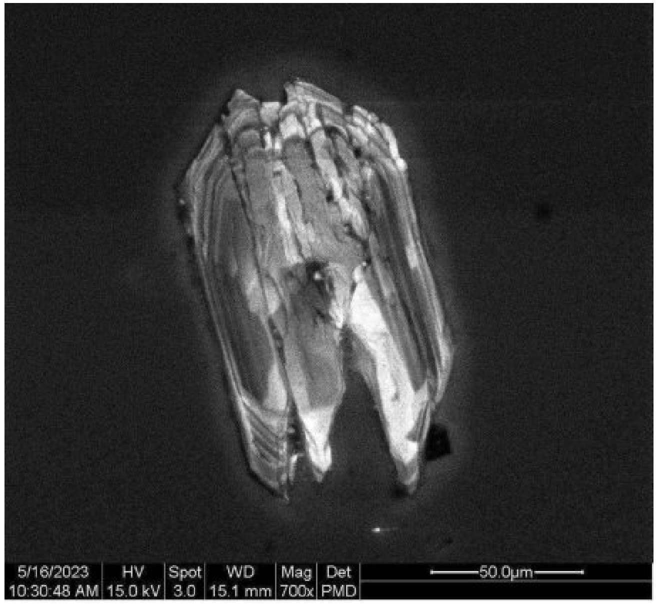
CG22BG01-
B1_CL_023.tiff

No analysis, grain is too altered/fractured and lots of zones cutting zones.



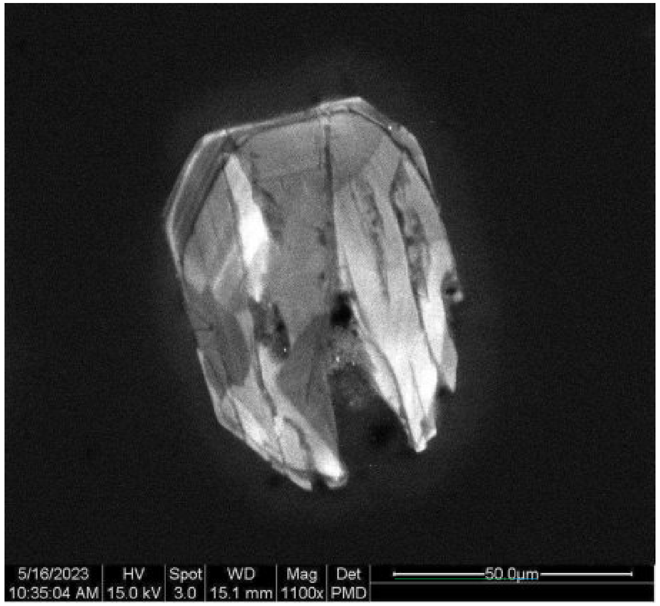
CG22BG01-
B1_CL_024.tiff

No analysis, grain is too altered/fractured.



CG22BG01-
B1_CL_025.tiff

No analysis, grain is too altered/fractured.



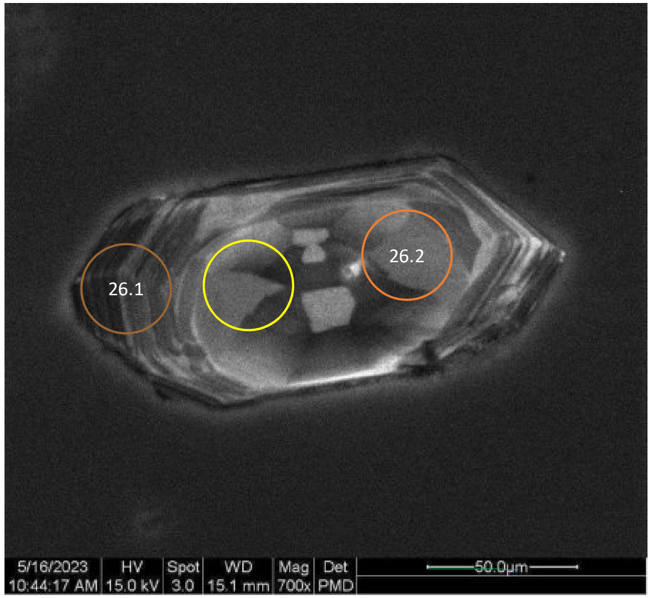
CG22BG01-
B1_CL_026.tiff

2x U-Pb

26.1, 26.2

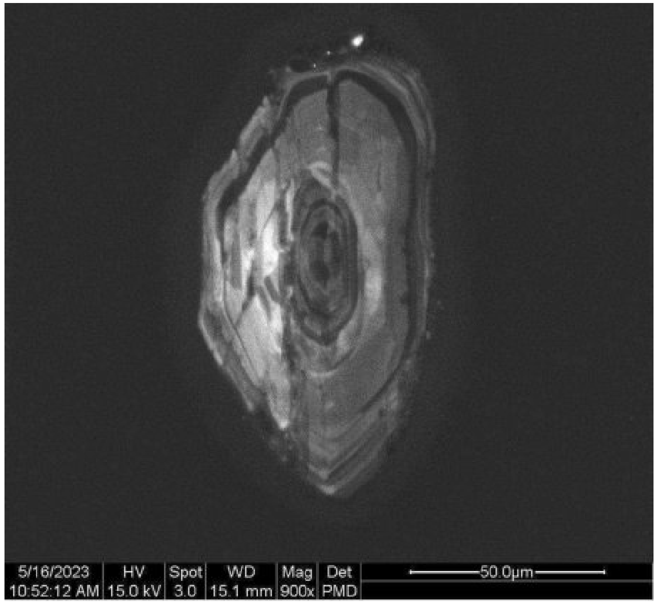
1x TE

26.1



CG22BG01-
B1_CL_027.tiff

No analysis, grain is too altered/fractured.



CG22BG01-
B1_CL_028.tiff

1x U-Pb

28.1

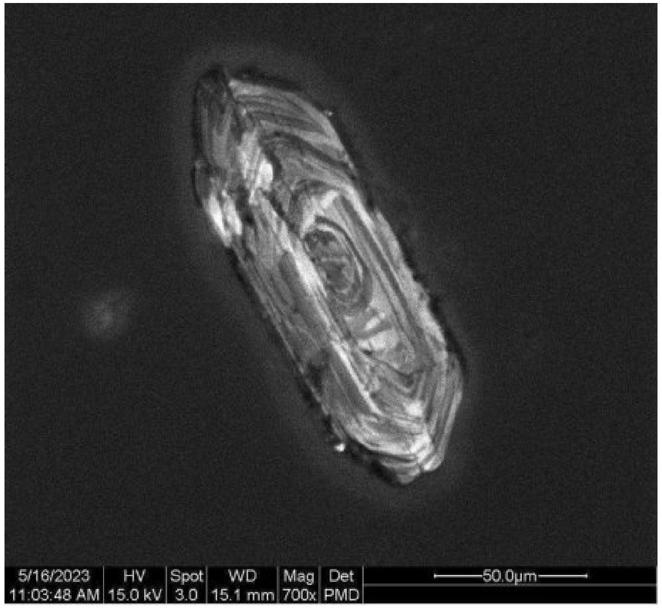
CG22BG01-
B1_CL_029.tiff

1x U-Pb

29.1

CG22BG01-
B1_CL_030.tiff

No analysis, grain is too altered/fractured.



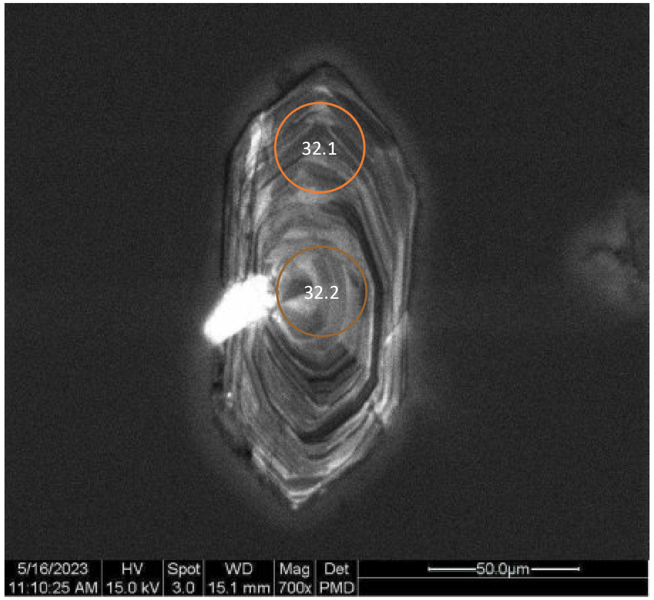
CG22BG01-
B1_CL_031.tiff

No analysis, grain is too altered/fractured.

CG22BG01-
B1_CL_032.tiff

2x U-Pb

32.1, 32.2



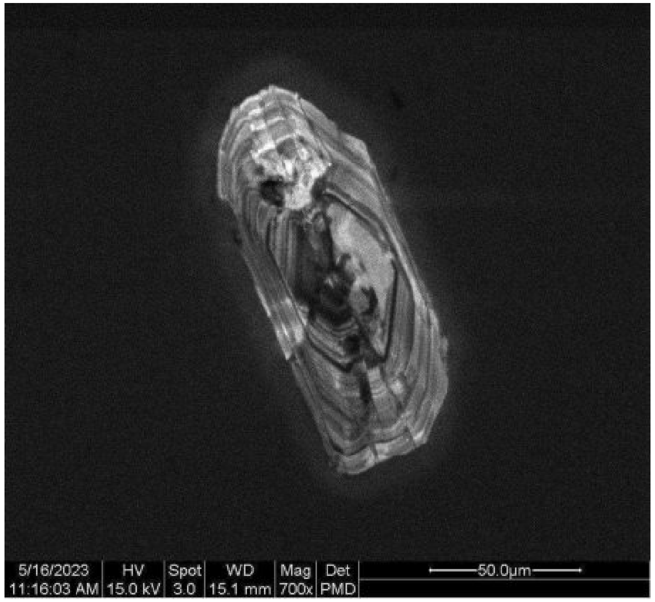
CG22BG01-
B1_CL_033.tiff

1x U-Pb

33.1

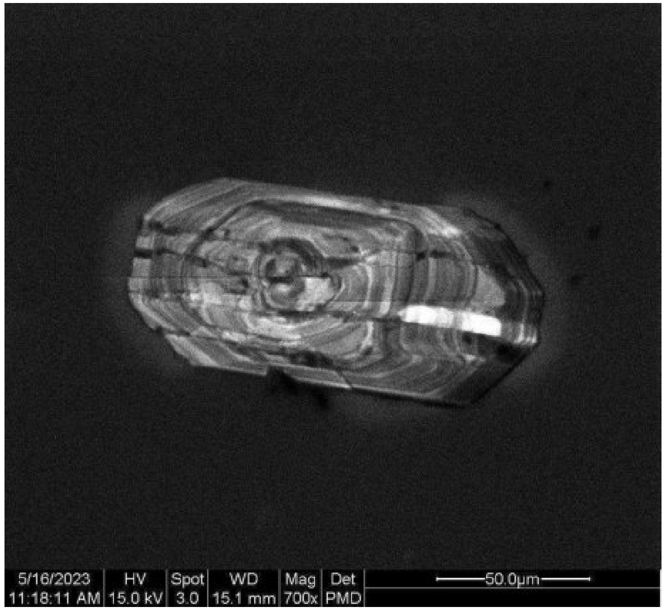
CG22BG01-
B1_CL_034.tiff

No analysis, grain is too altered/fractured.



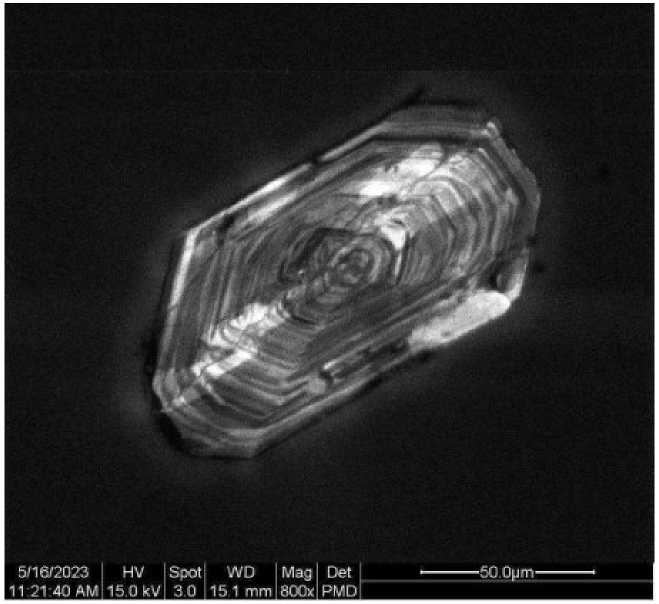
CG22BG01-
B1_CL_035.tiff

No analysis, grain is too altered//fractured



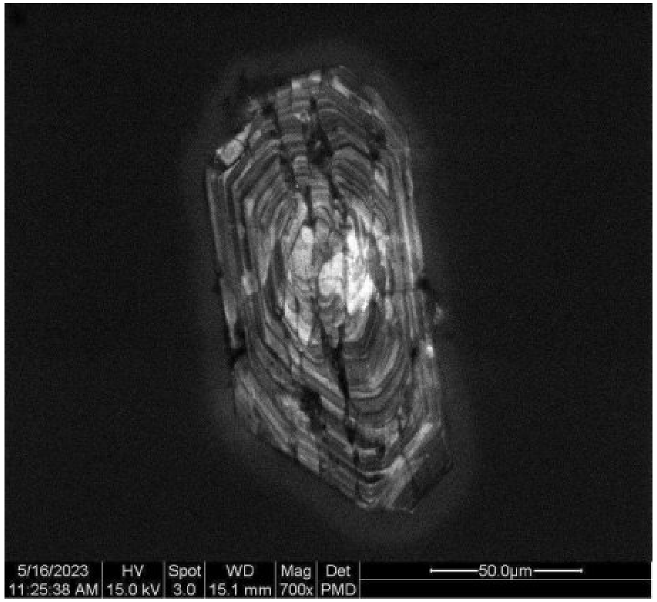
CG22BG01-
B1_CL_036.tiff

No analysis, grain is too altered/fractured.



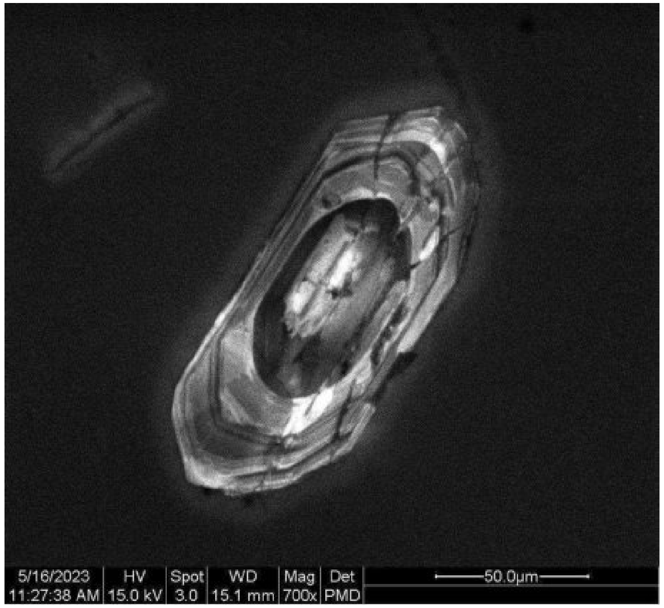
CG22BG01-
B1_CL_037.tiff

No analysis, grain is too altered/fractured.



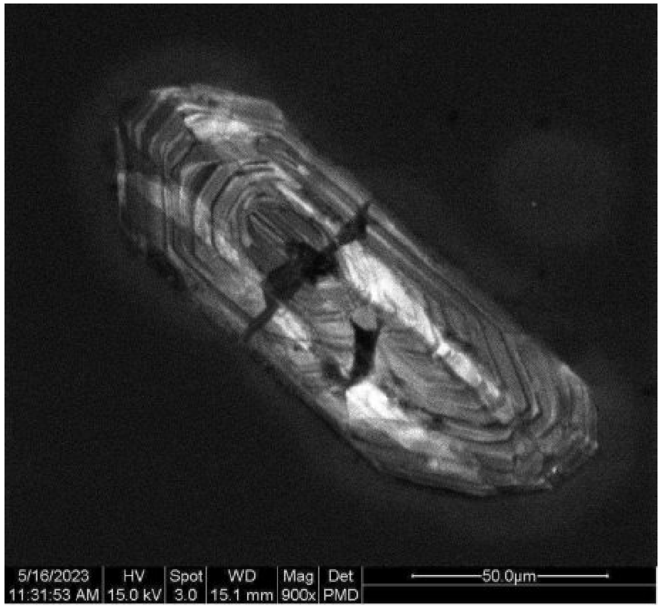
CG22BG01-
B1_CL_038.tiff

No analysis, grain is too altered/fractured.



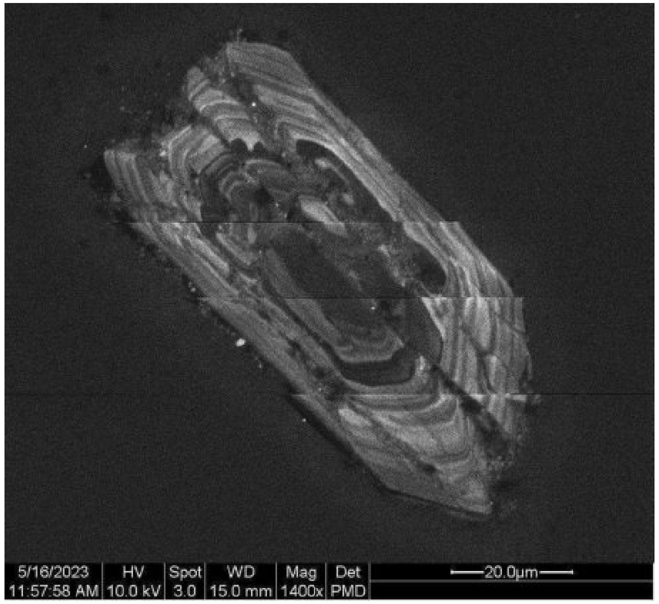
CG22BG01-
B1_CL_039.tiff

No analysis, grain is too altered/fractured.



CG22BG01-
B1_CL_040.tiff

No analysis, grain is too altered/fractured.

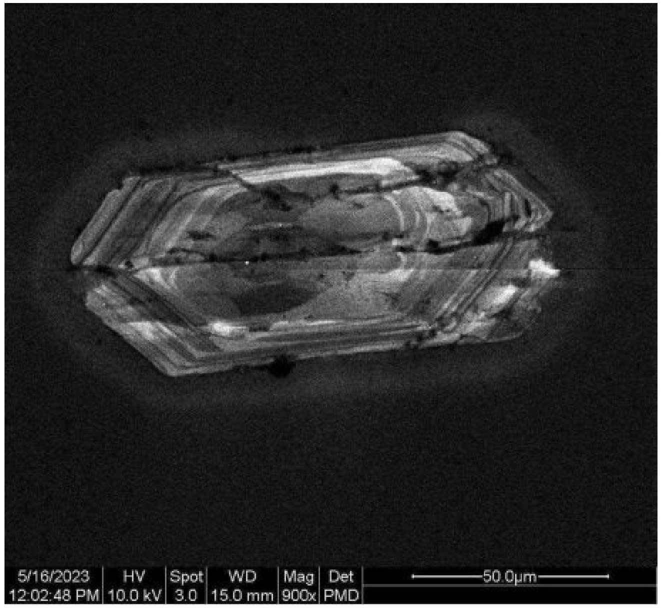


CG22BG01-B1_CL_041.tiff

No analysis, grain is too altered/fractured.

CG22BG01-B1_CL_042.tiff

No analysis, grain is too altered/fractured.

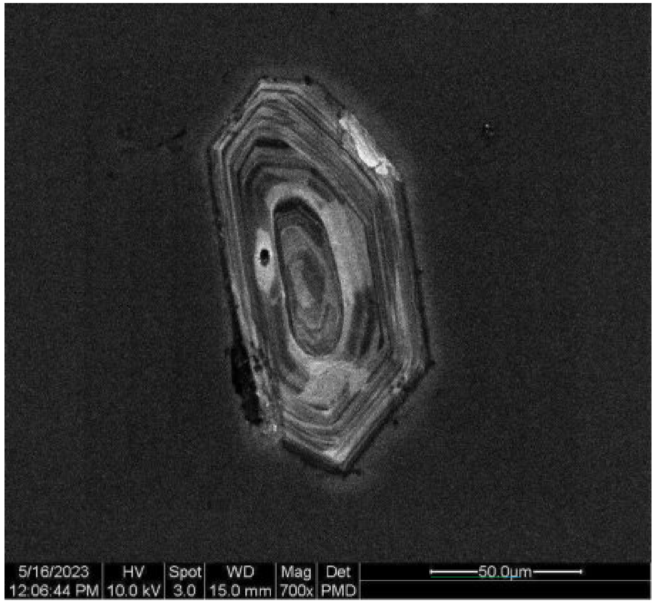


CG22BG01-B1_CL_043.tiff

No analysis, grain is too altered/fractured and zones are too narrow/small for 30 micron laser spot.

CG22BG01-B1_CL_044.tiff

Zones are too small for a laser spot! There’s also lots of overlapping/cross cutting of different zones/alteration/ Pb loss.



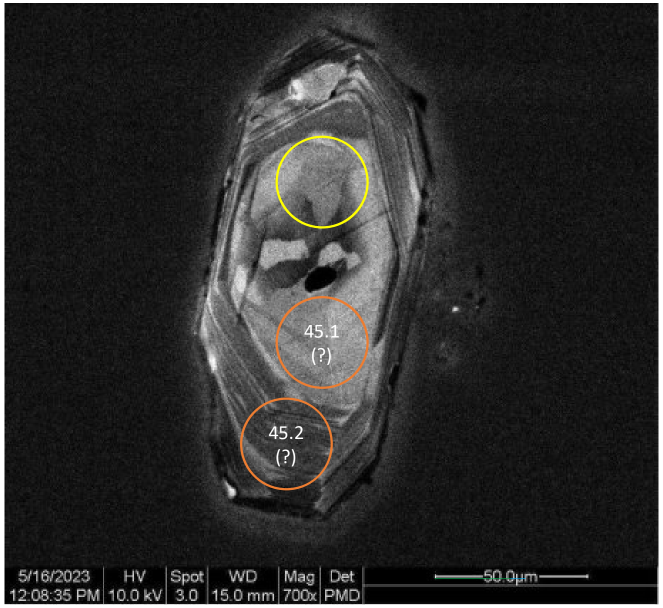
CG22BG01-
B1_CL_045.tiff

2x U-Pb

45.1, 45.2

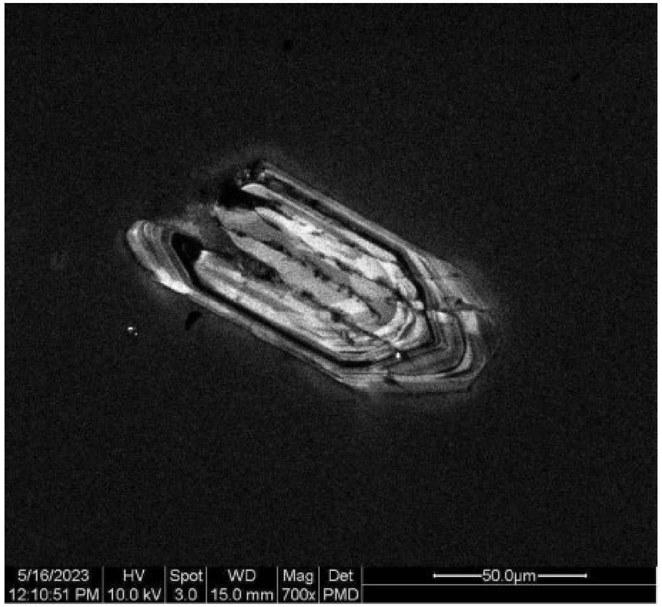
1x TE

45.1



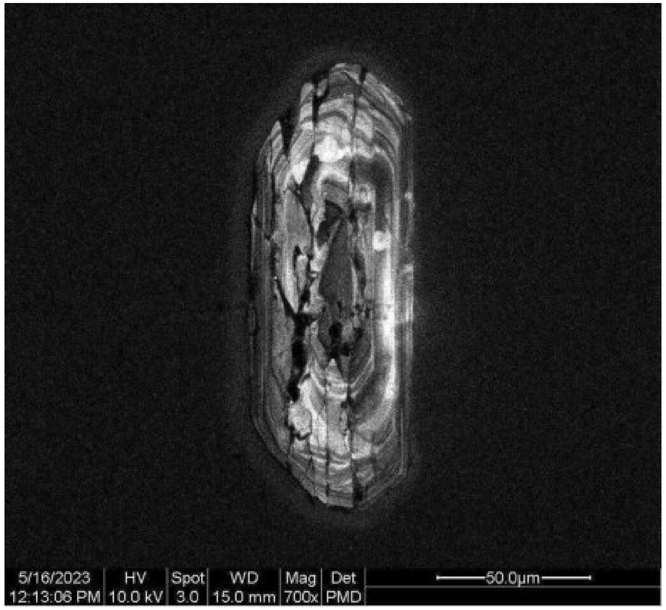
CG22BG01-
B1_CL_046.tiff

No analysis, grain is too altered/fractured.



CG22BG01-
B1_CL_047.tiff

No analysis, grain is too altered/fractured.



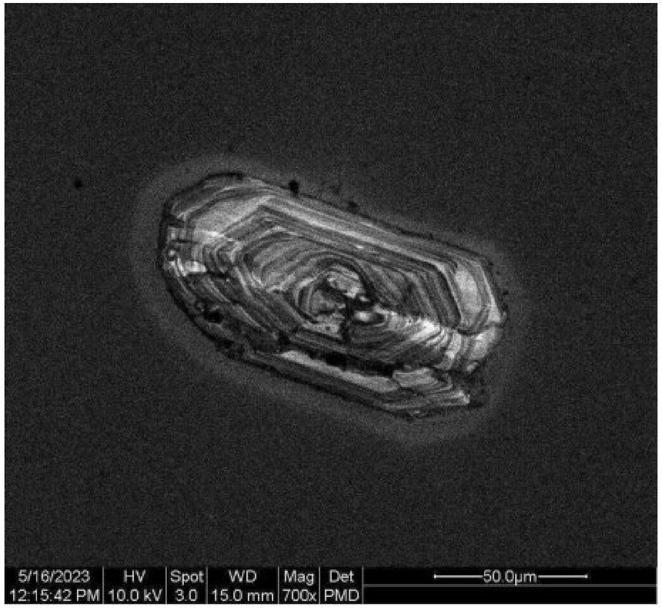
CG22BG01-
B1_CL_048.tiff

2x U-Pb

48.1, 48.2

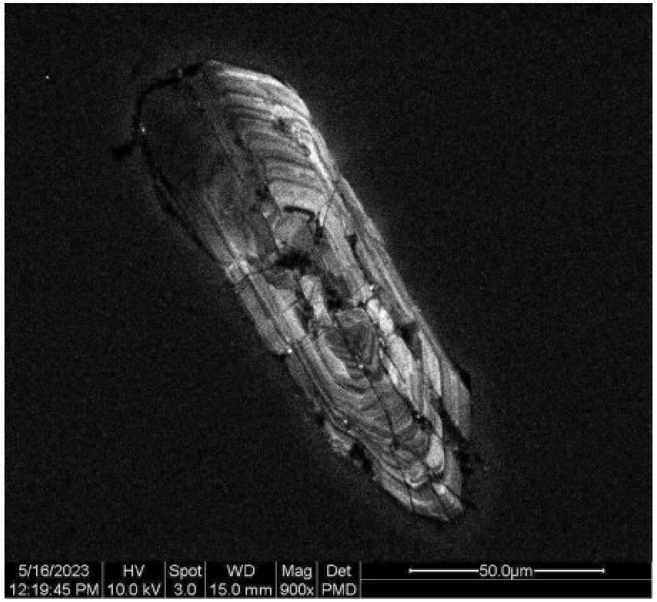
CG22BG01-B1_CL_049.tiff

No analysis, grain is too altered/fractured.



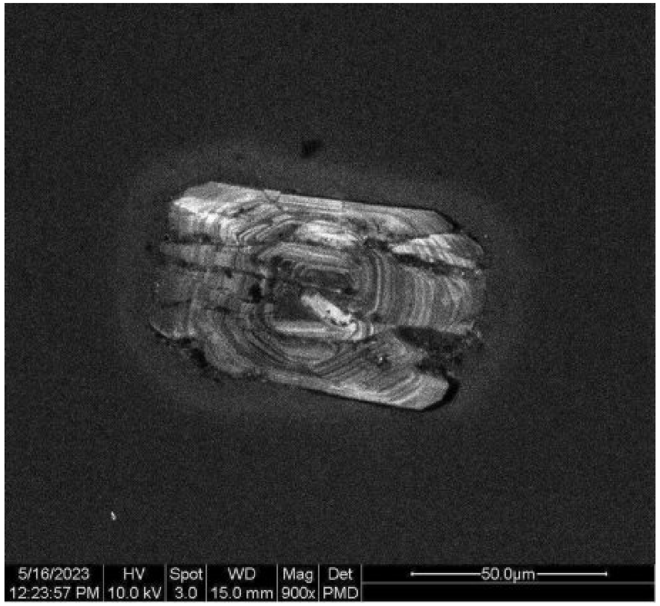
CG22BG01-B1_CL_050.tiff

No analysis, grain is too altered/fractured.



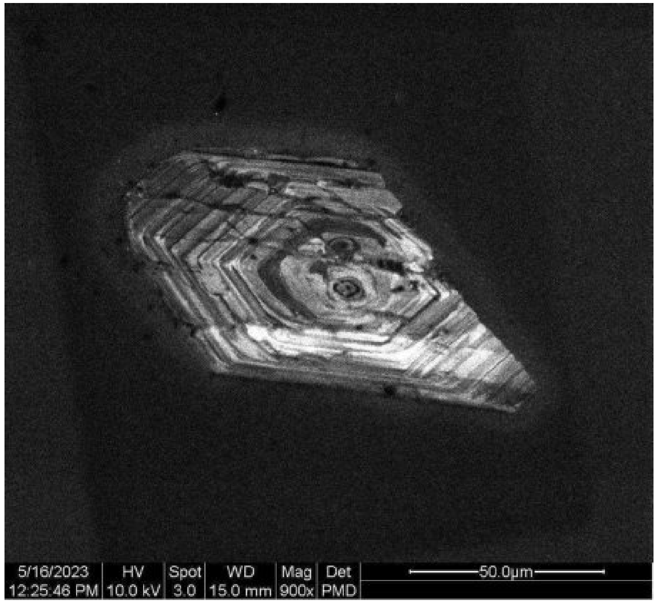
CG22BG01-B1_CL_051.tiff

No analysis, grain is too altered/fractured.



CG22BG01-B1_CL_052.tiff

No analysis, grain is too altered/fractured.

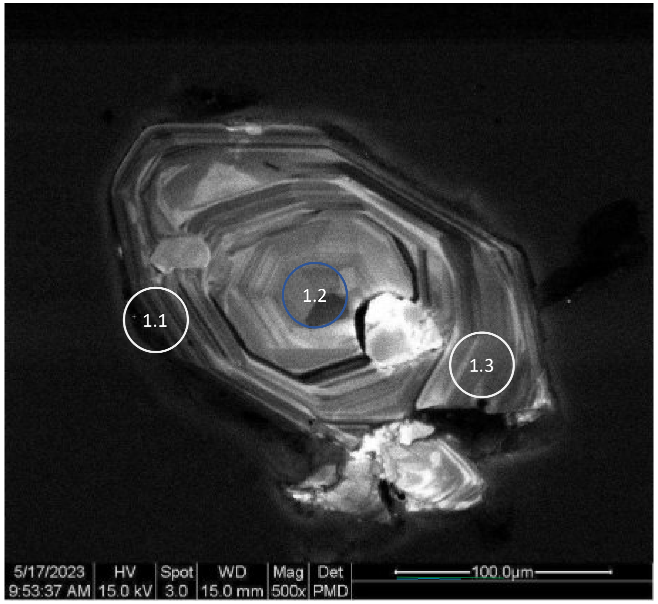


BG01_b2

CM22BG01-
B2_CL_001.tiff

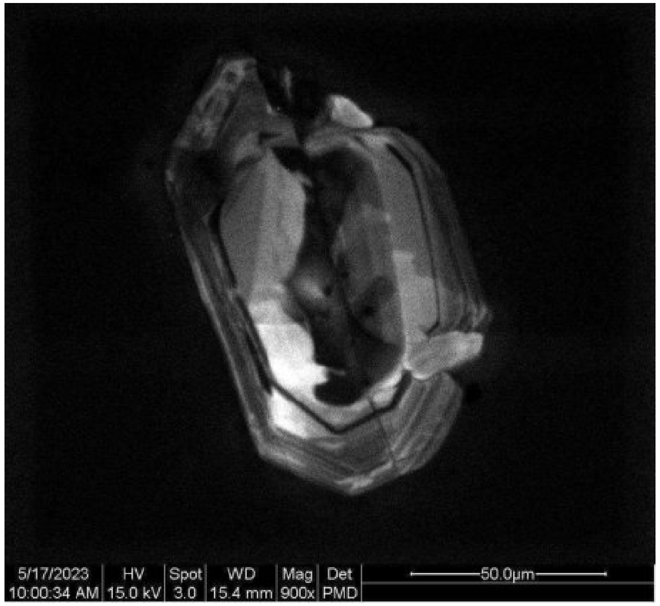
3x U-Pb

1.1, 1.2, 1.3



CM22BG01-
B2_CL_002.tiff

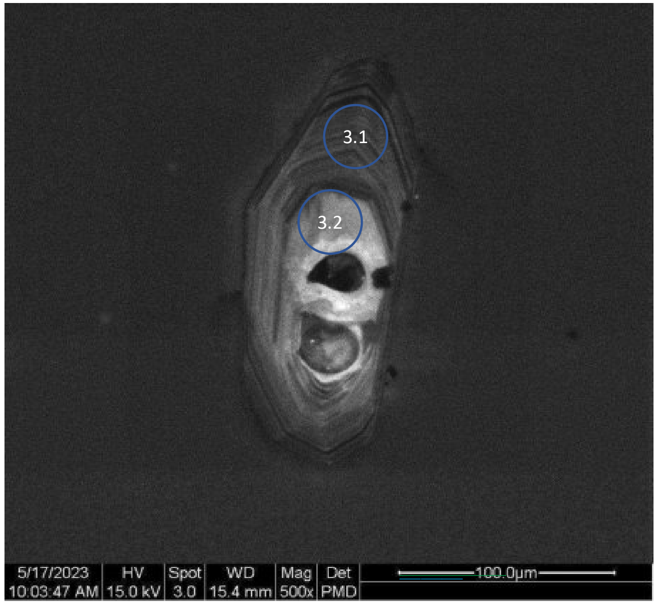
No analysis. Grain is altered/fractured.



CM22BG01-
B2_CL_003.tiff

2x U-Pb

3.1, 3.2



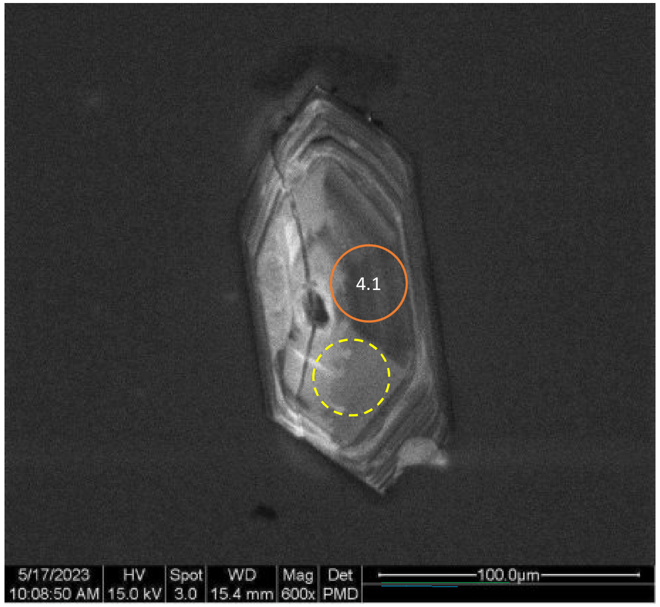
CM22BG01-
B2_CL_004.tiff

2x U-Pb

4.1

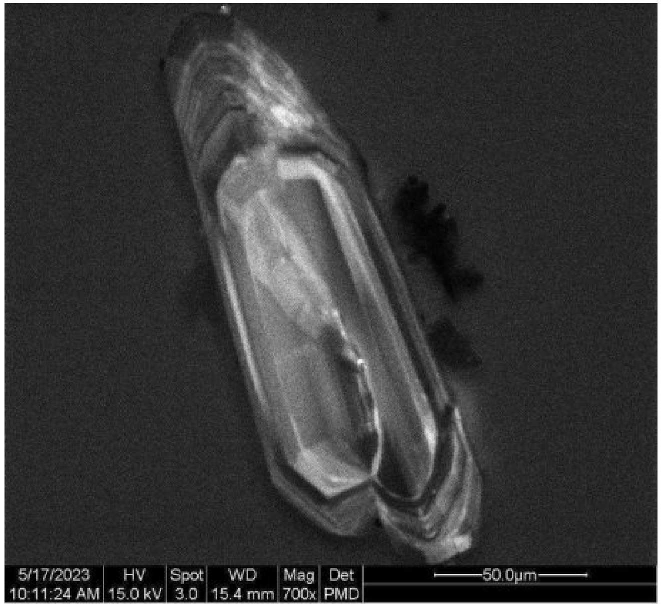
1x TE

4.1



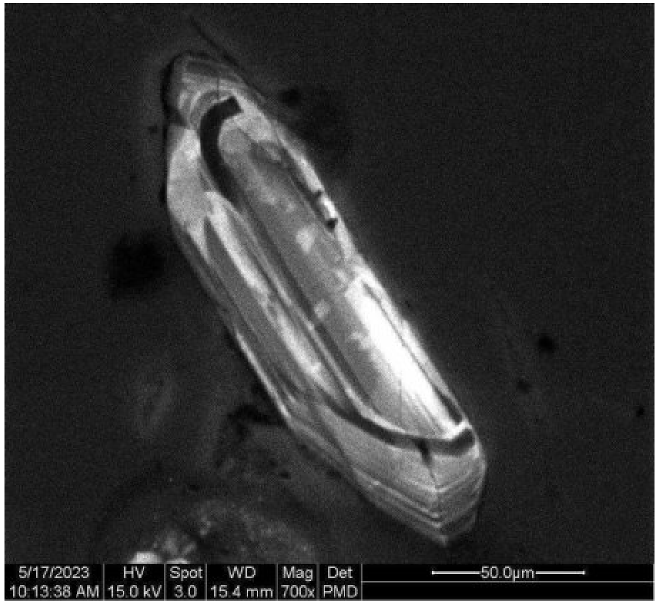
CM22BG01-
B2_CL_005.tiff

No analysis. Grain is too altered/small/zones poorly defined



CM22BG01-
B2_CL_006.tiff

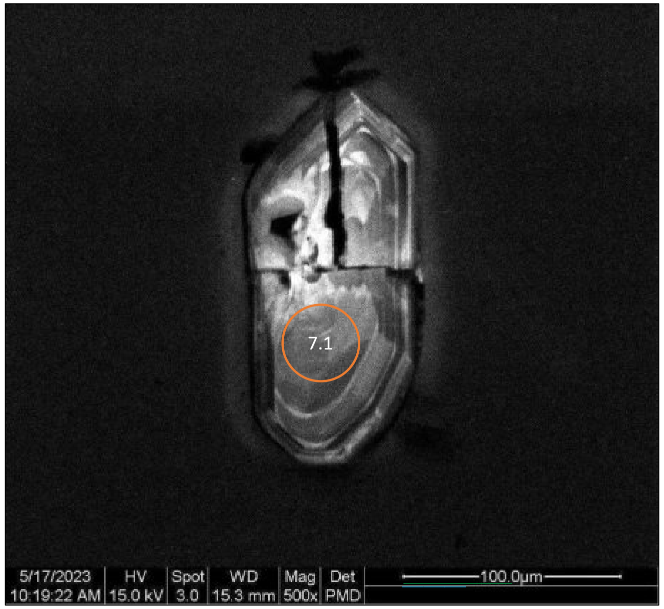
No analysis. Grain is too altered/small/zones poorly defined/fluid alteration



CM22BG01-
B2_CL_007.tiff

1x U-Pb

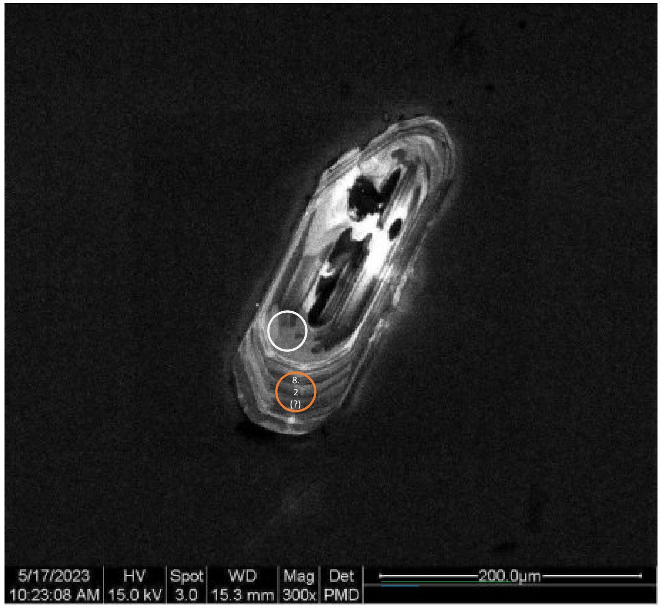
7.1



CM22BG01-
B2_CL_008.tiff

2x U-Pb

8.1, 8.2



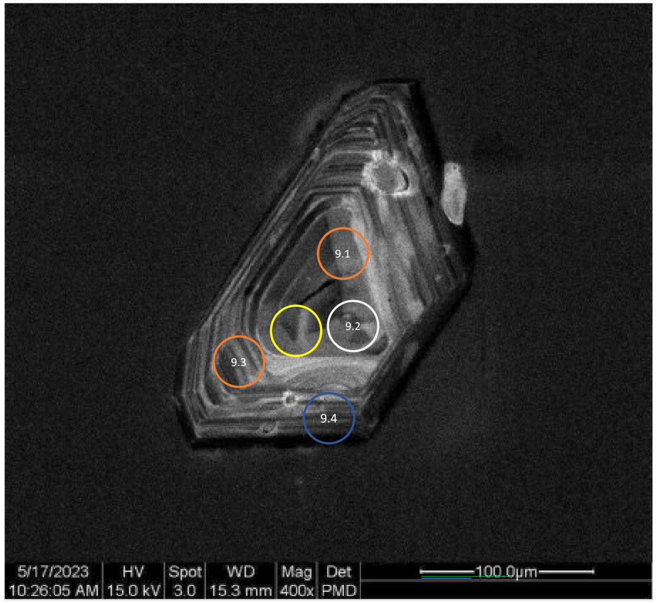
CM22BG01-
B2_CL_009.tiff

4x U-Pb

9.1, 9.2, 9.3, 9.4

1x TE

9.1



CM22BG01-
B2_CL_010.tiff

1x U-Pb

10.1

CM22BG01-
B2_CL_011.tiff

3x U-Pb

11.2, 11.2, 11.3

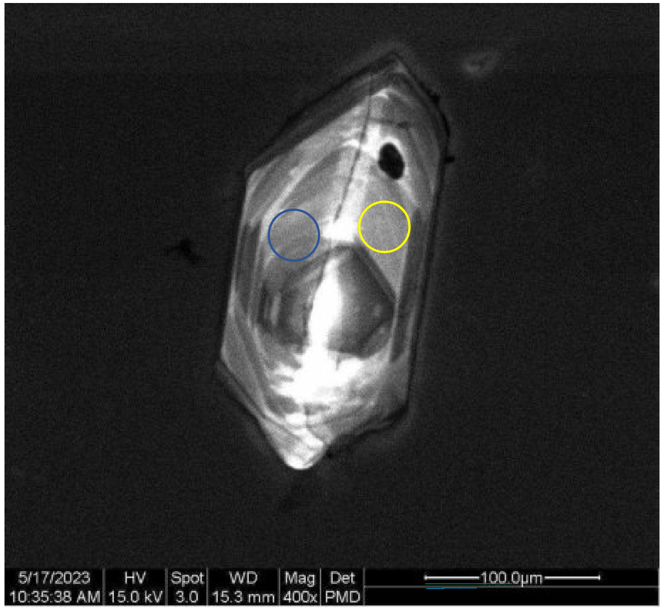
CM22BG01-
B2_CL_012.tiff

1x U-Pb

12.1

1x TE

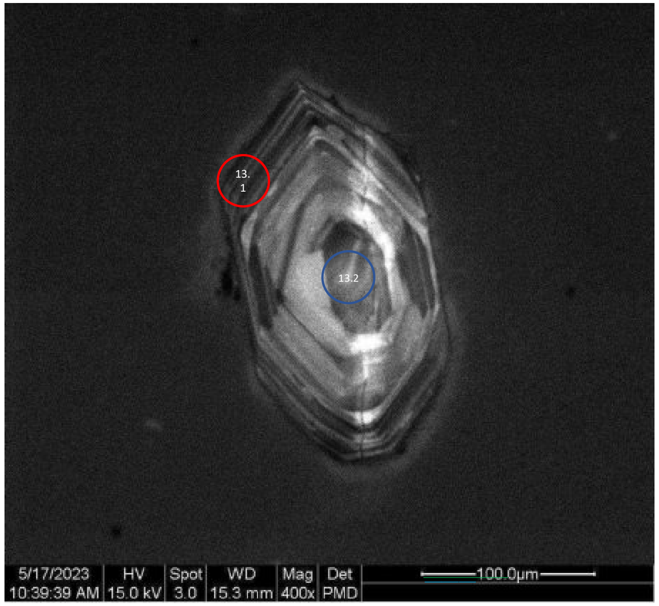
12.1



CM22BG01-
B2_CL_013.tiff

2x U-Pb

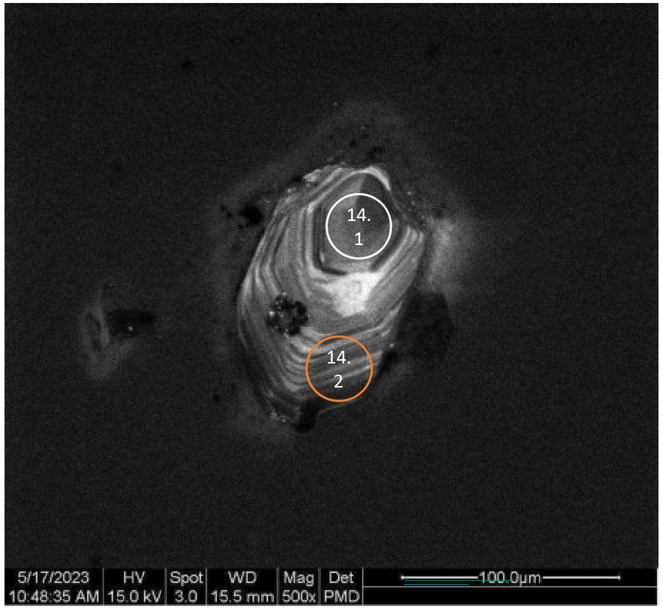
13.1, 13.2



CM22BG01-
B2_CL_014.tiff

2x U-Pb

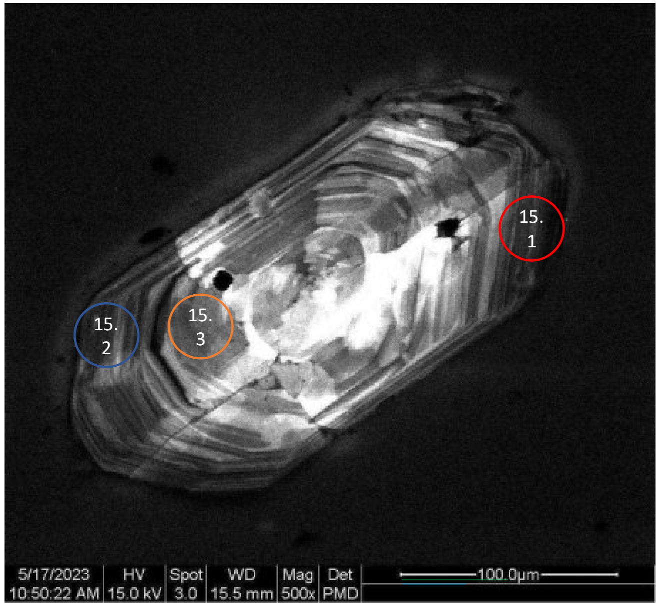
14.1, 14.2



CM22BG01-
B2_CL_015.tiff

3x U-Pb

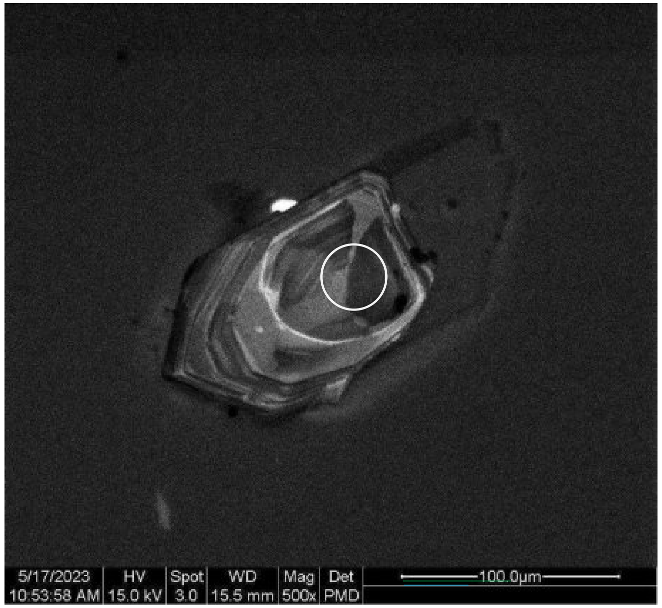
15.1, 15.2, 15.3



CM22BG01-
B2_CL_016.tiff

1x U-Pb

16.1



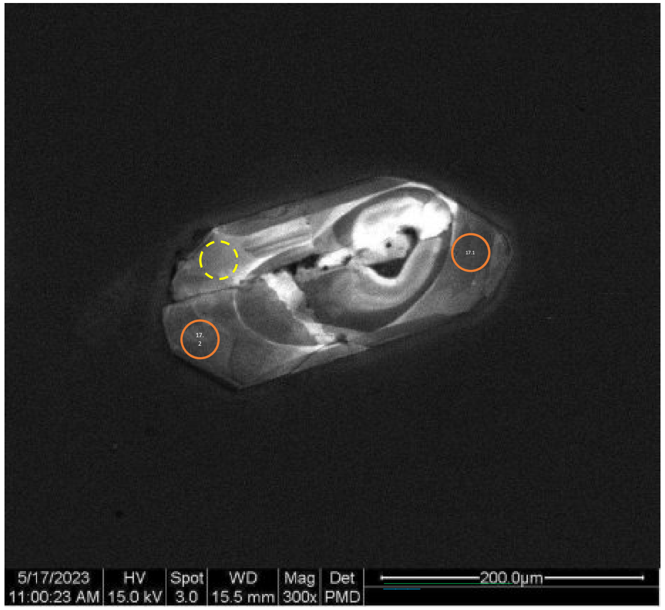
CM22BG01-
B2_CL_017.tiff

2x U-Pb

17.1, 17.2

1x TE

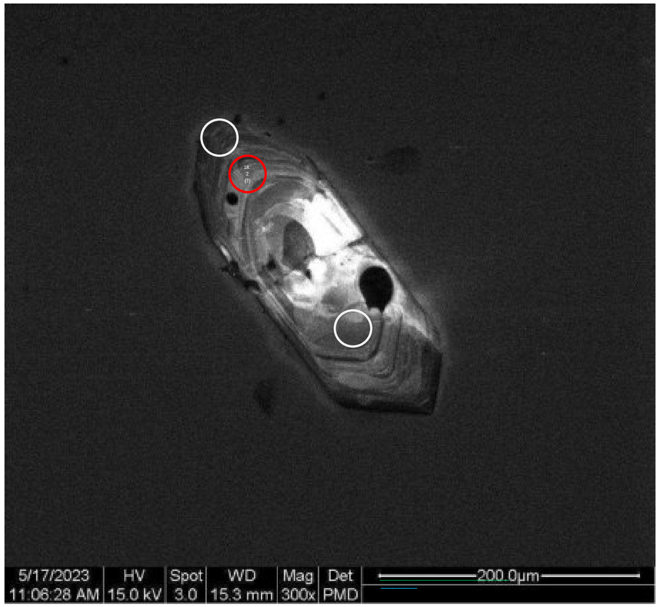
17.1



CM22BG01-
B2_CL_018.tiff

3x U-Pb

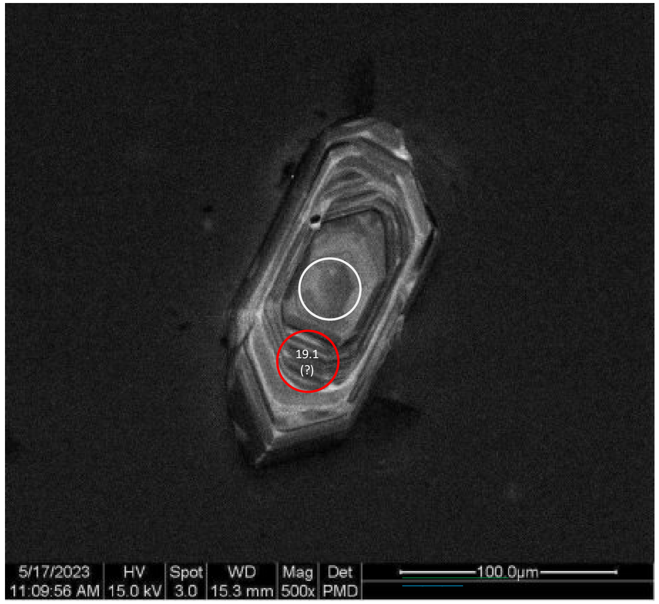
18.1, 18.2, 18.3



CM22BG01-
B2_CL_019.tiff

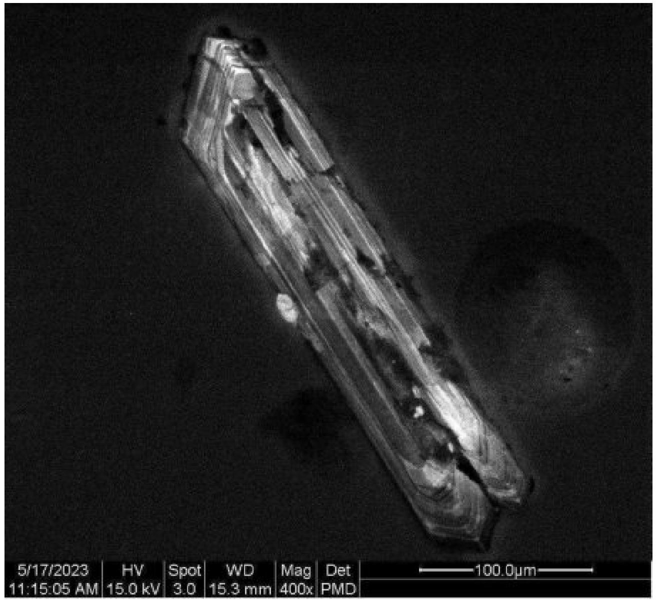
2x U-Pb

19.1, 19.2



CM22BG01-
B2_CL_020.tiff

Grain far too fractured/zones too small for laser spots.



Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Discordant points

Emplacement zircons (i.e., zircons included in emplacement age calculation)

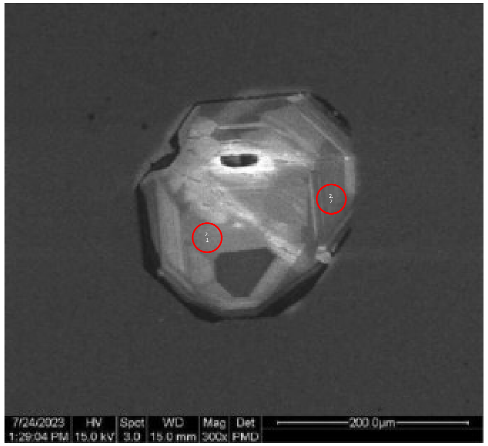
NA = not analysed because grains are too fractured and/or too small and/or too altered etc.

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains, spots < 425 Ma)

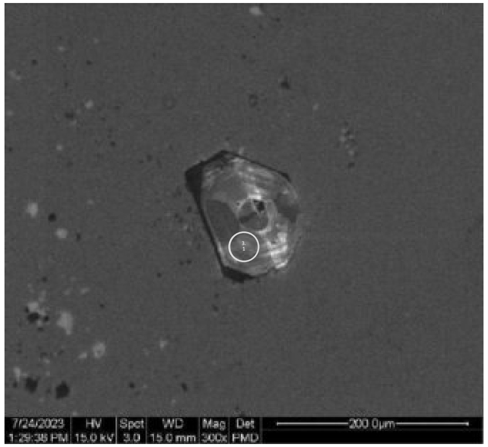
Xenocrystic zircons (i.e., grains with spots > 425 Ma)

CG23CR05-
CL_001.tif

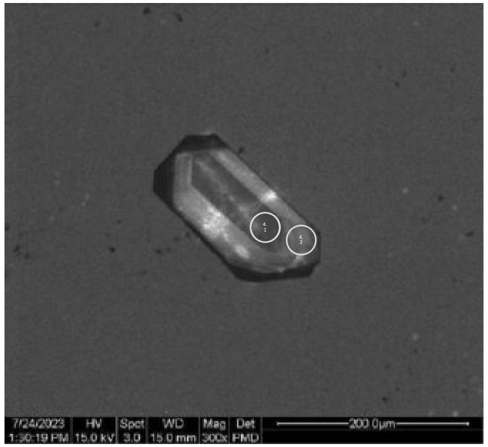
CG23CR05-
CL_002.tif



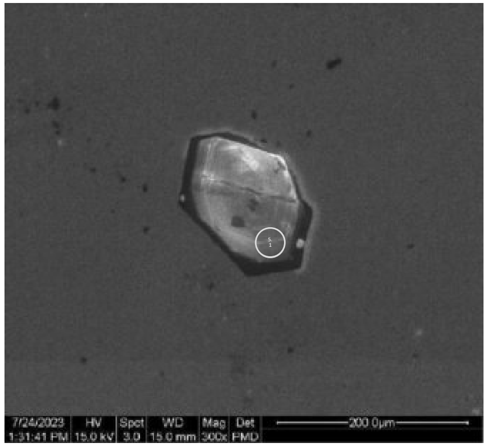
CG23CR05-
CL_003.tif



CG23CR05-
CL_004.tif

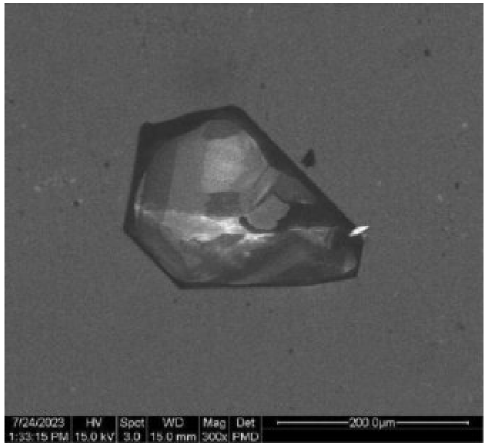


CG23CR05-
CL_005.tif

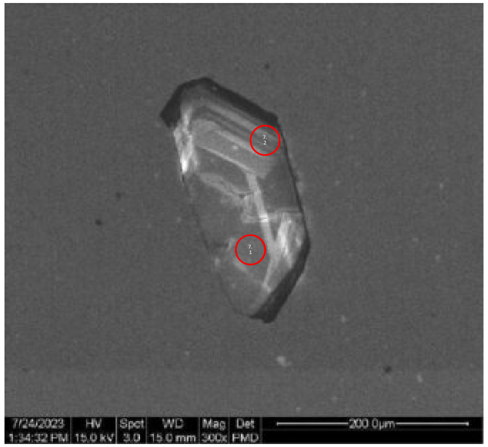


CG23CR05-
CL_006.tif

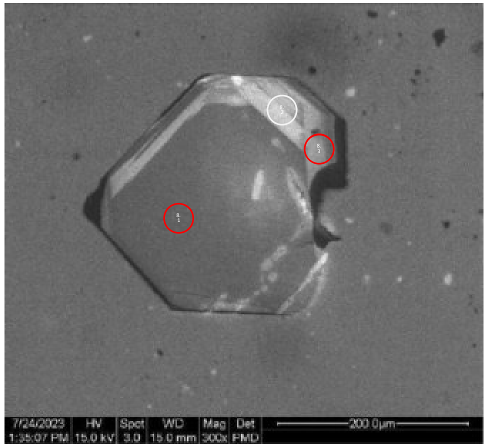
NA



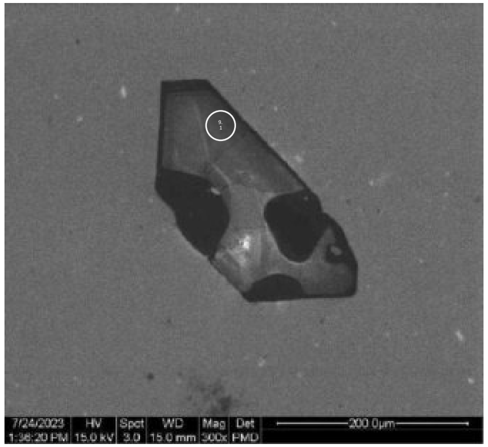
CG23CR05-
CL_007.tif



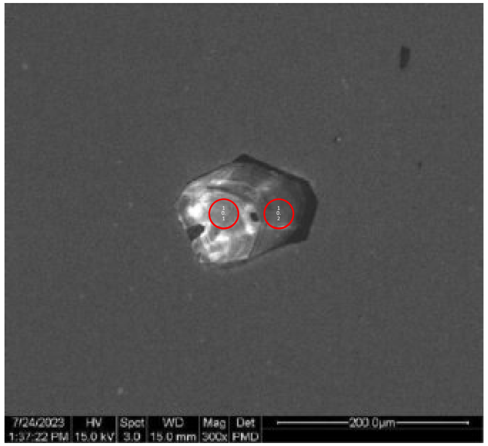
CG23CR05-
CL_008.tif



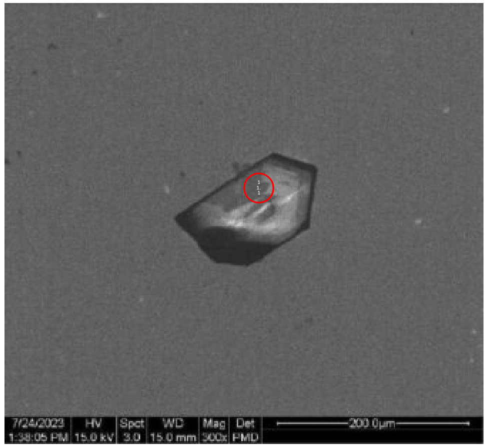
CG23CR05-
CL_009.tif



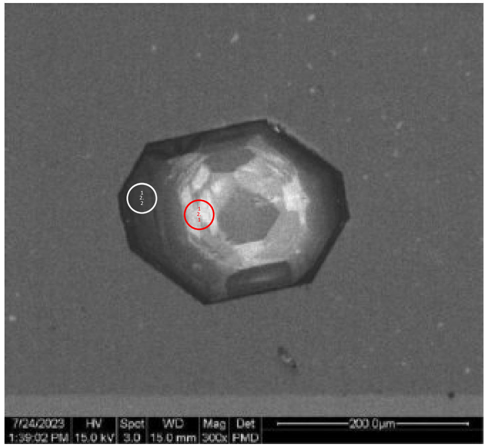
CG23CR05-
CL_010.tif



CG23CR05-
CL_011.tif



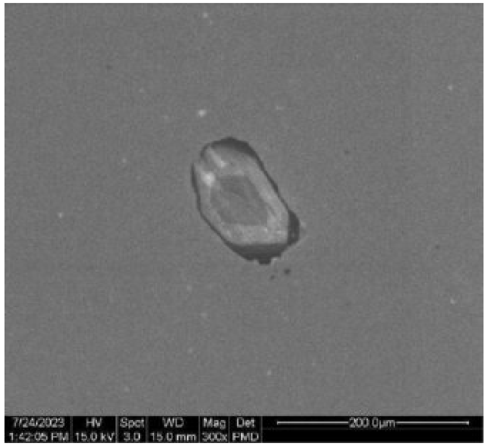
CG23CR05-
CL_012.tif



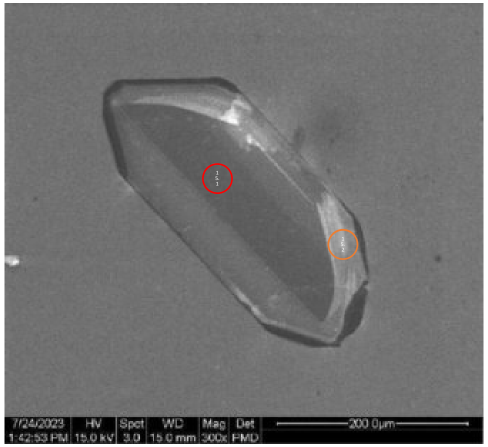
CG23CR05-
CL_013.tif

CG23CR05-
CL_014.tif

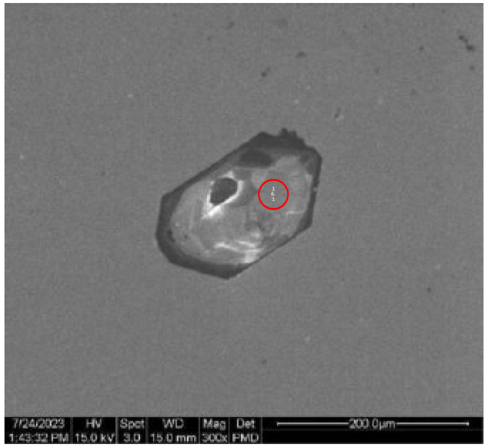
NA



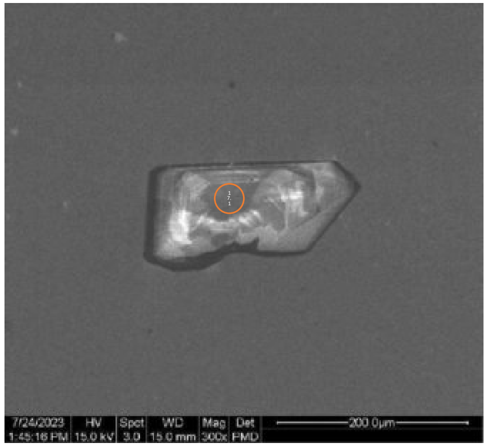
CG23CR05-
CL_015.tif



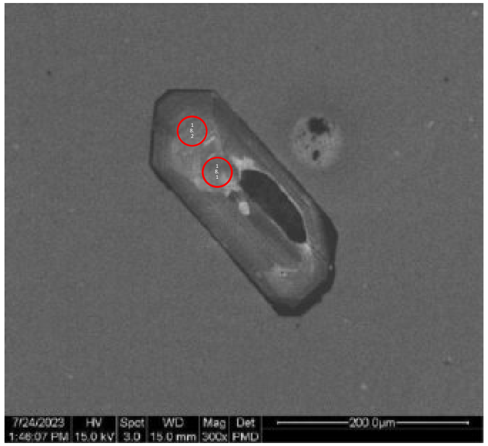
CG23CR05-
CL_016.tif



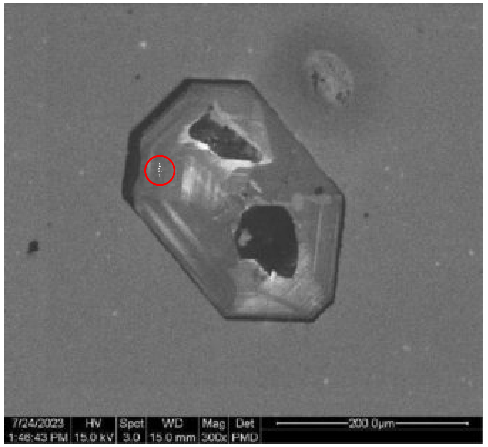
CG23CR05-
CL_017.tif



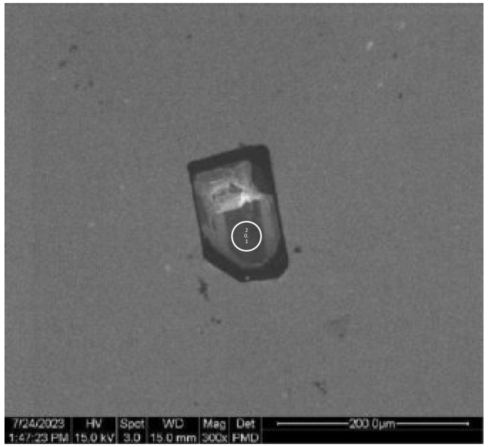
CG23CR05-
CL_018.tif



CG23CR05-
CL_019.tif

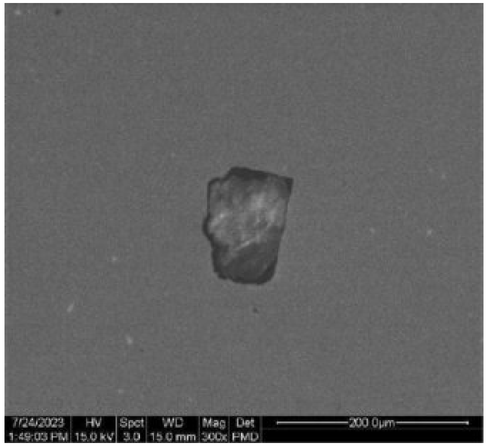


CG23CR05-
CL_020.tif



CG23CR05-
CL_021.tif

NA



CG23CR05-
CL_022.tif

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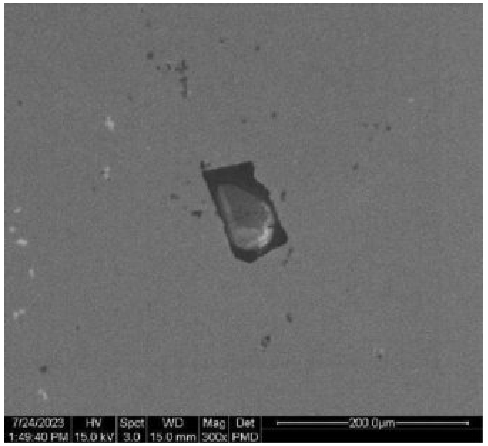
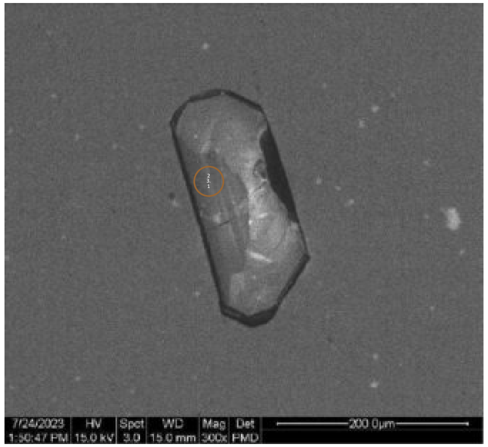
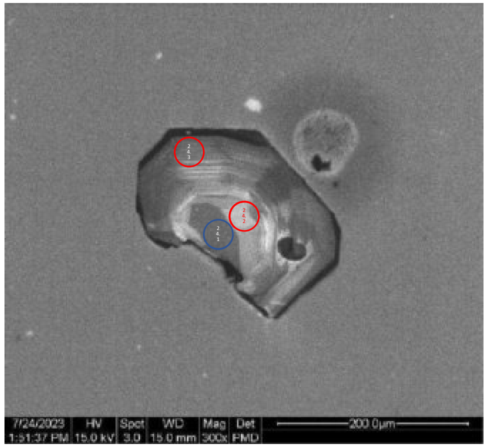


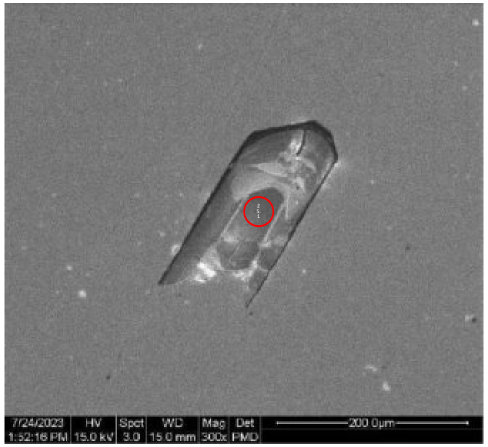
CG23CR05-
CL_023.tif



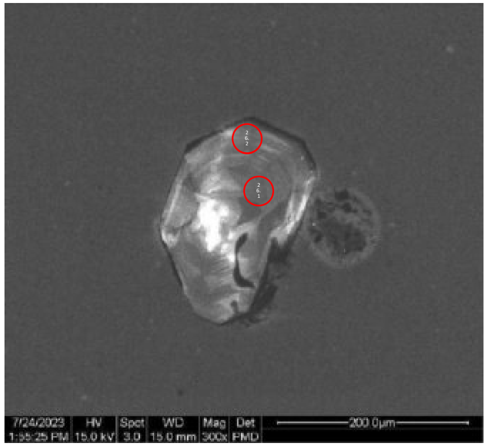
CG23CR05-
CL_024.tif



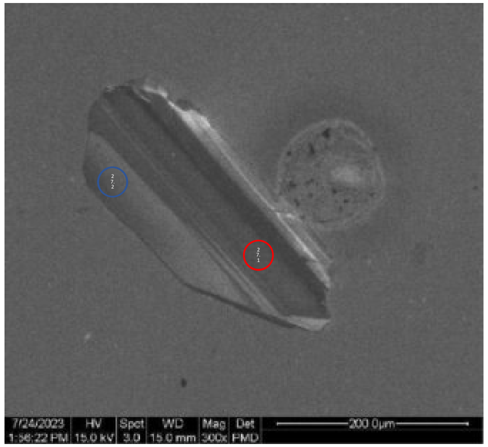
CG23CR05-
CL_025.tif



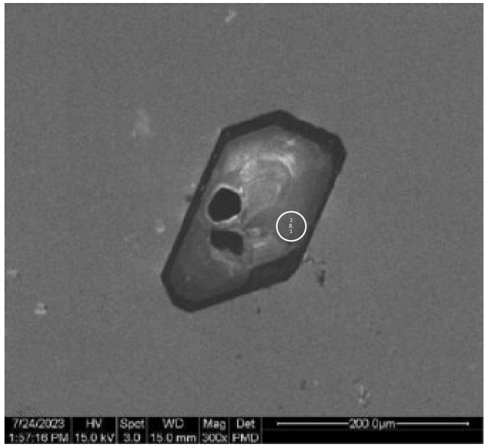
CG23CR05-
CL_026.tif



CG23CR05-
CL_027.tif

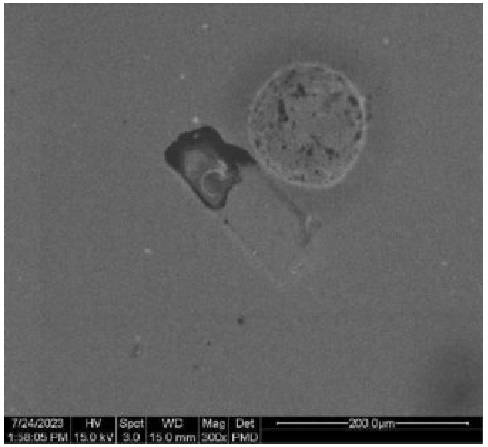


CG23CR05-
CL_028.tif

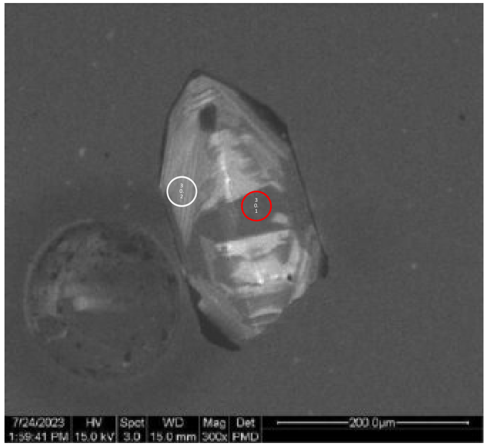


CG23CR05-
CL_029.tif

NA

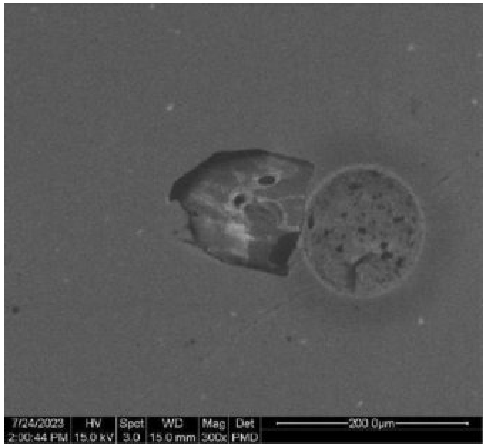


CG23CR05-
CL_030.tif



CG23CR05-
CL_031.tif

NA



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CL_032.tif

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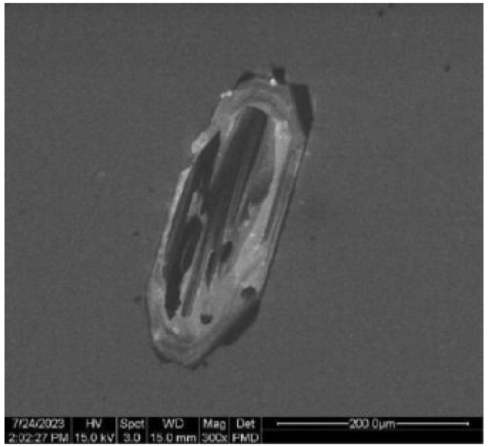
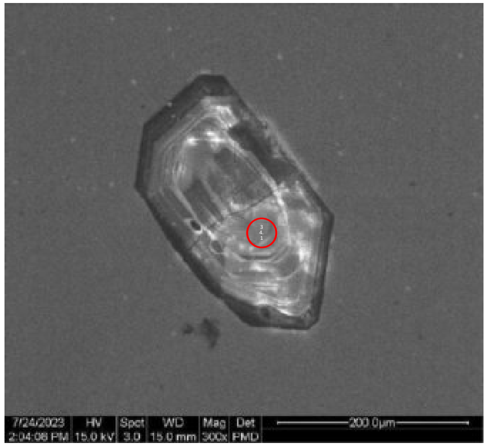
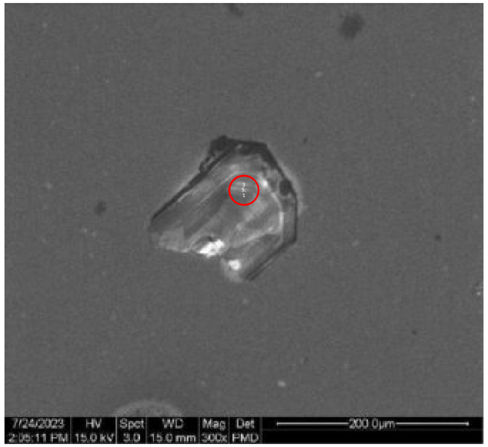


CG23CR05-
CL_033.tif

CG23CR05-
CL_034.tif

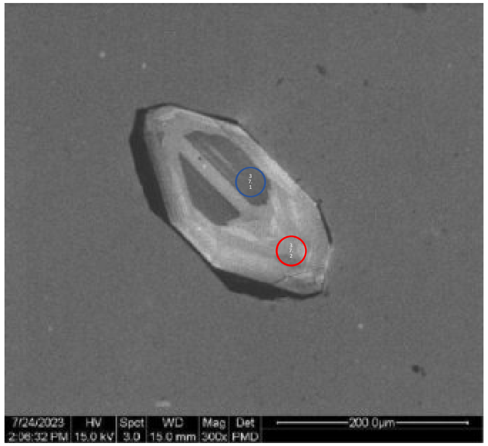


CG23CR05-
CL_035.tif

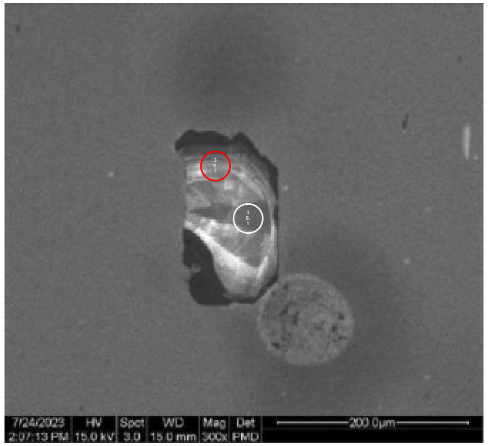


CG23CR05-
CL_036.tif

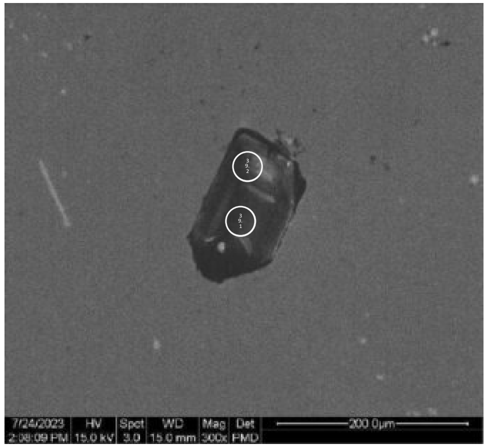
CG23CR05-
CL_037.tif



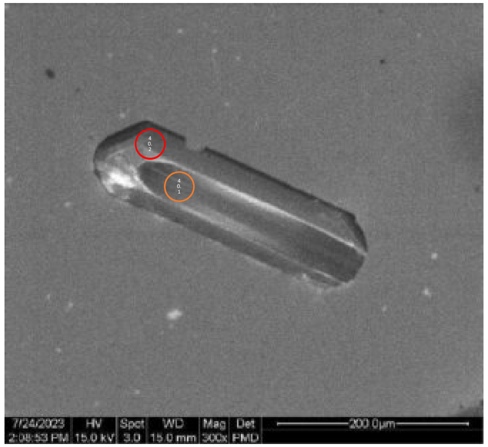
CG23CR05-
CL_038.tif



CG23CR05-
CL_039.tif

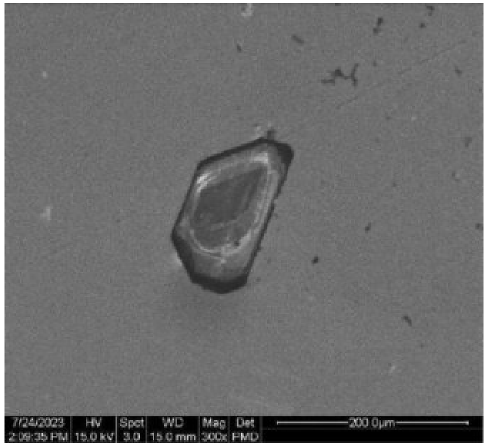


CG23CR05-
CL_040.tif

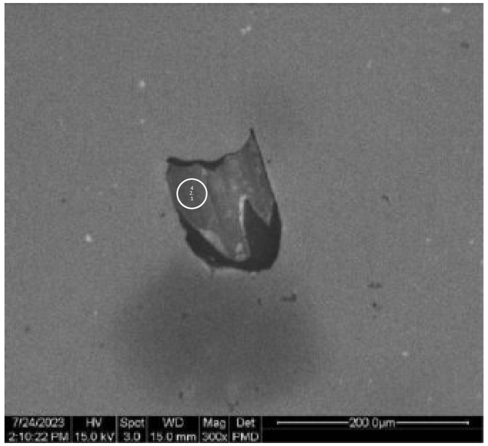


CG23CR05-
CL_041.tif

NA

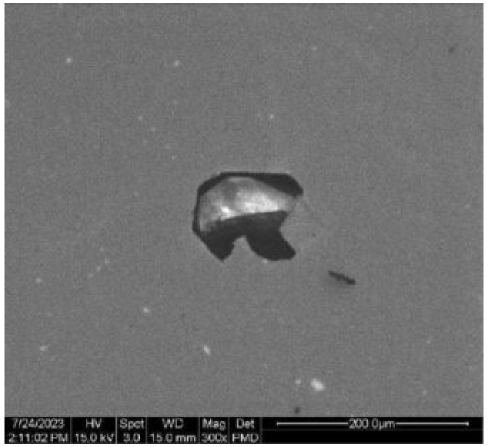


CG23CR05-
CL_042.tif

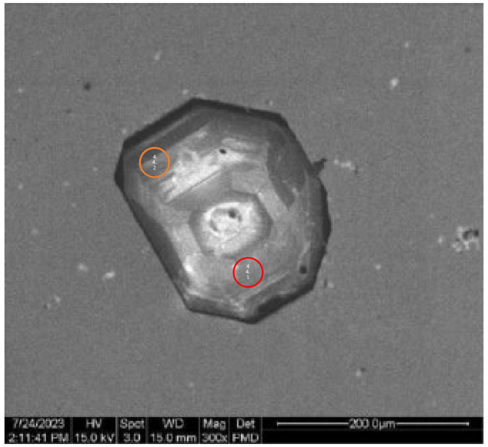


CG23CR05-
CL_043.tif

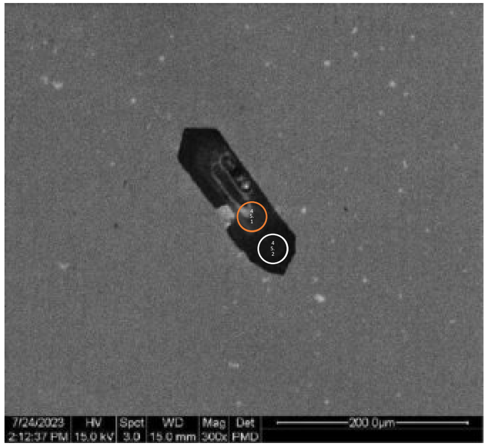
NA



CG23CR05-
CL_044.tif

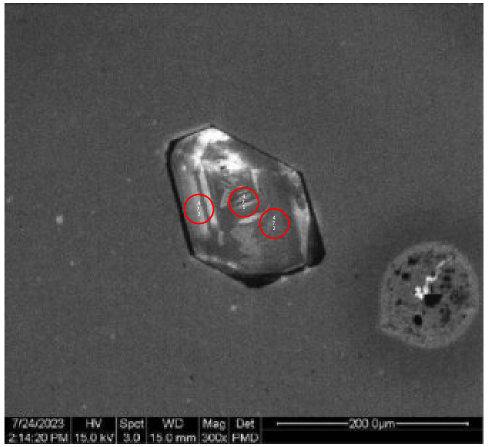


CG23CR05-
CL_045.tif

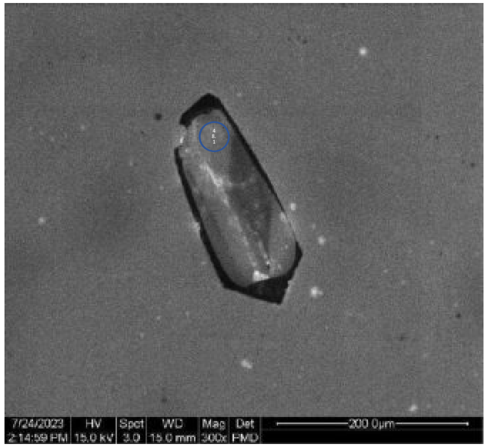


CG23CR05-
CL_046.tif

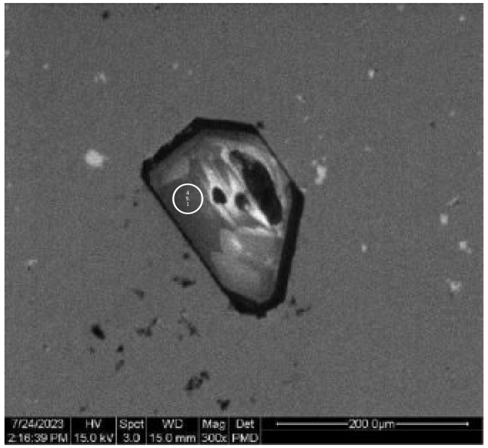
CG23CR05-
CL_047.tif



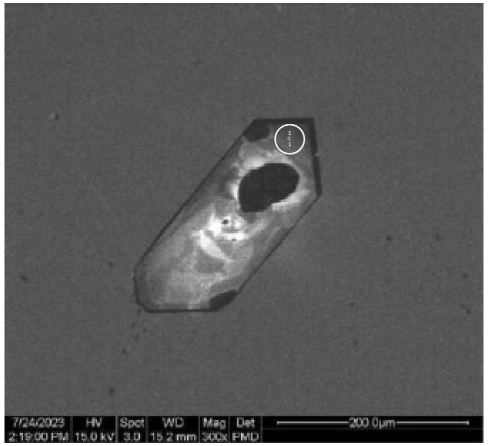
CG23CR05-
CL_048.tif



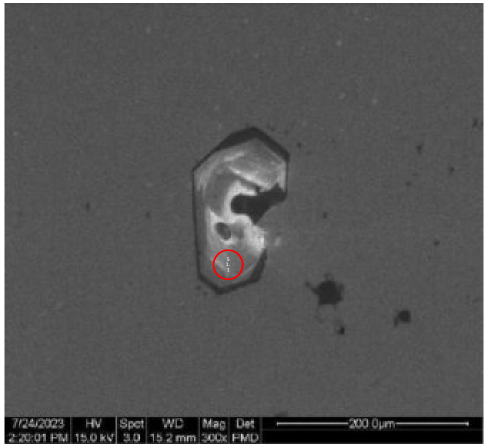
CG23CR05-
CL_049.tif



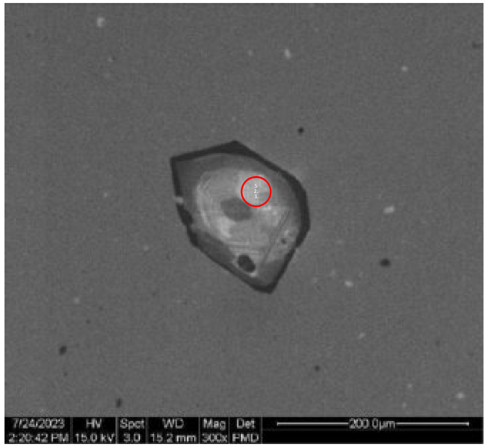
CG23CR05-
CL_050.tif



CG23CR05-
CL_051.tif

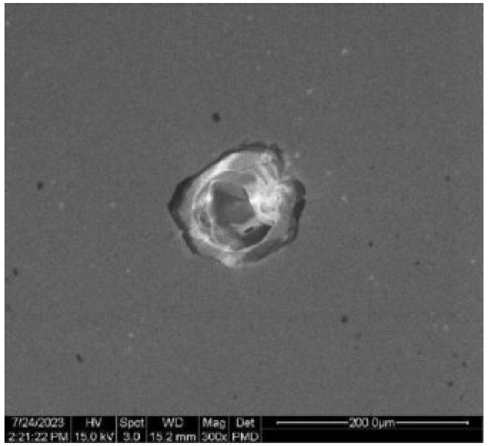


CG23CR05-
CL_052.tif



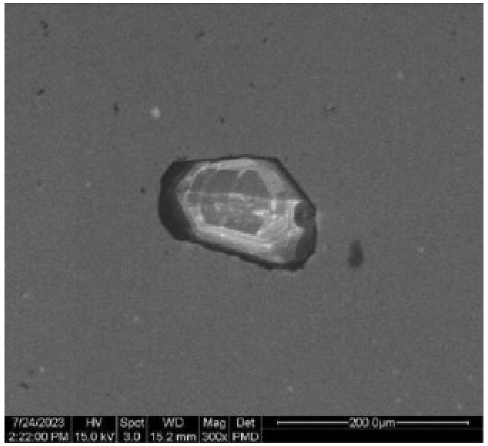
CG23CR05-
CL_053.tif

NA



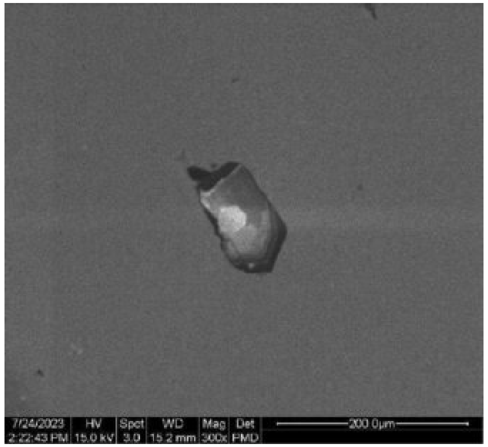
CG23CR05-
CL_054.tif

NA

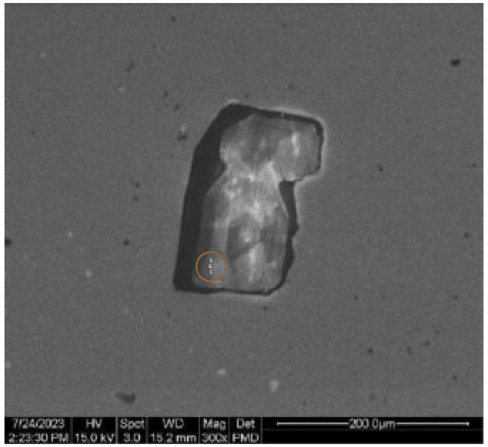


CG23CR05-CL_055.tif

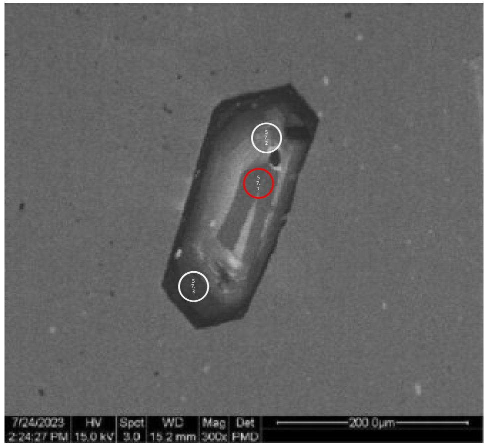
NA



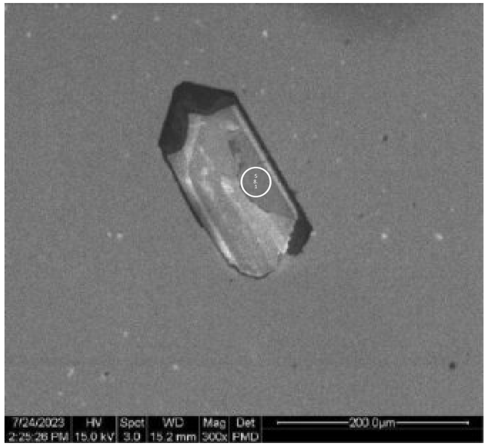
CG23CR05-CL_056.tif



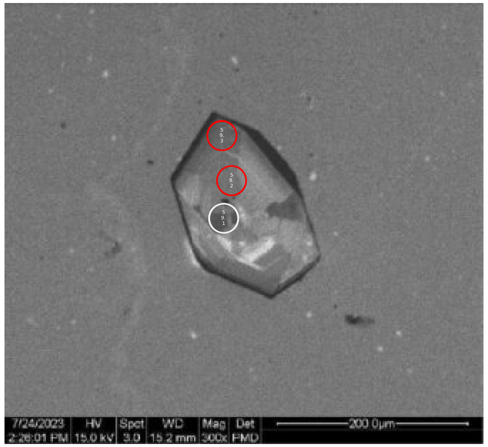
CG23CR05-CL_057.tif



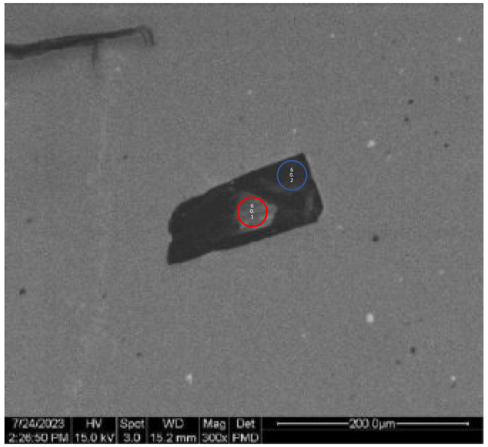
CG23CR05-CL_058.tif



CG23CR05-
CL_059.tif

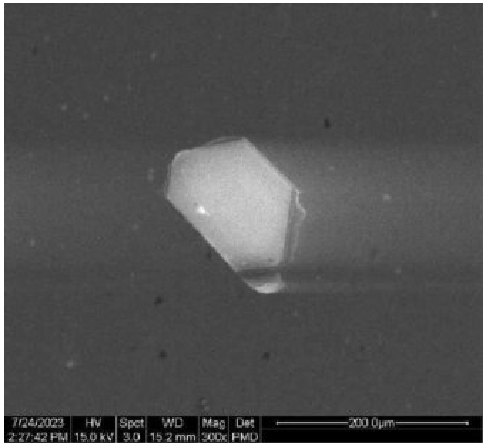


CG23CR05-
CL_060.tif

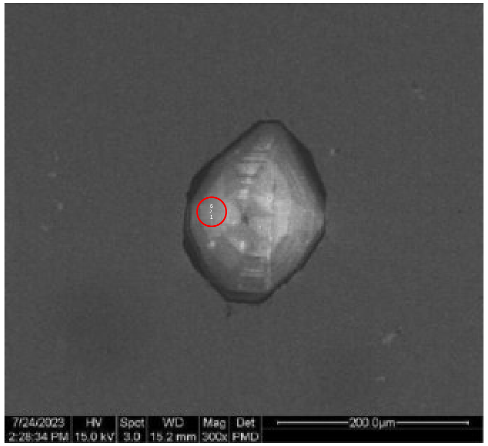


CG23CR05-
CL_061.tif

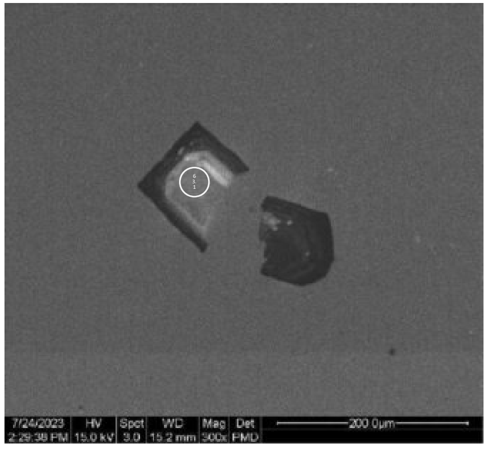
NA



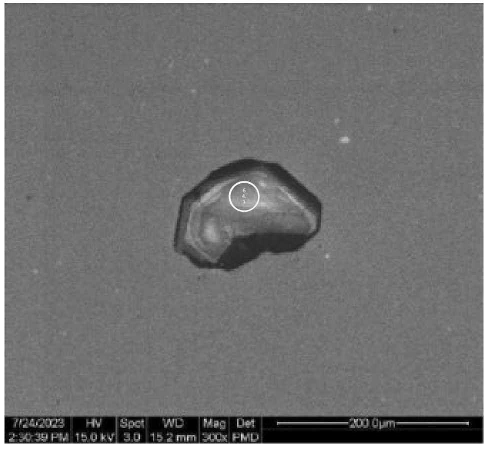
CG23CR05-
CL_062.tif



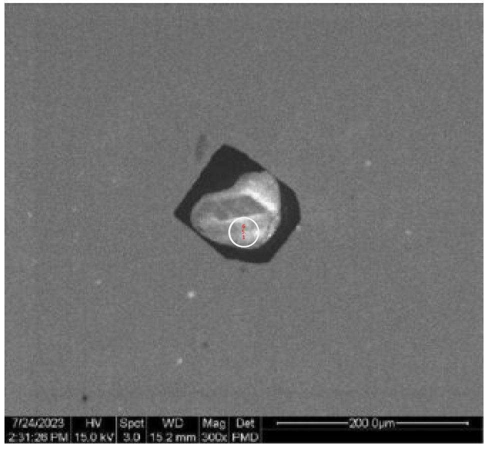
CG23CR05-
CL_063.tif



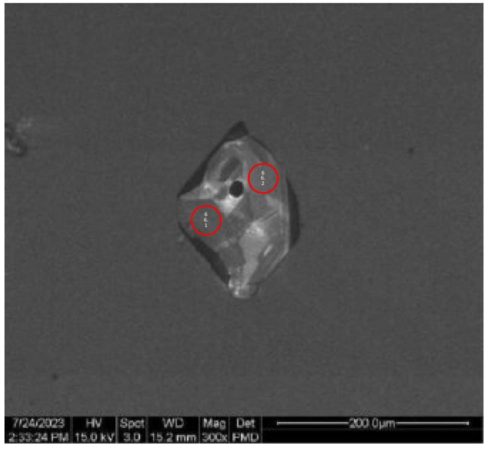
CG23CR05-
CL_064.tif



CG23CR05-
CL_065.tif



CG23CR05-
CL_066.tif



Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Emplacement zircons (i.e., zircons included in emplacement age calculation)

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

Xenocrystic zircons (i.e., grains with spots > 425 Ma)

Discordant points

Potential trace elements for future analysis

Potential further U-Pb spots for future analysis

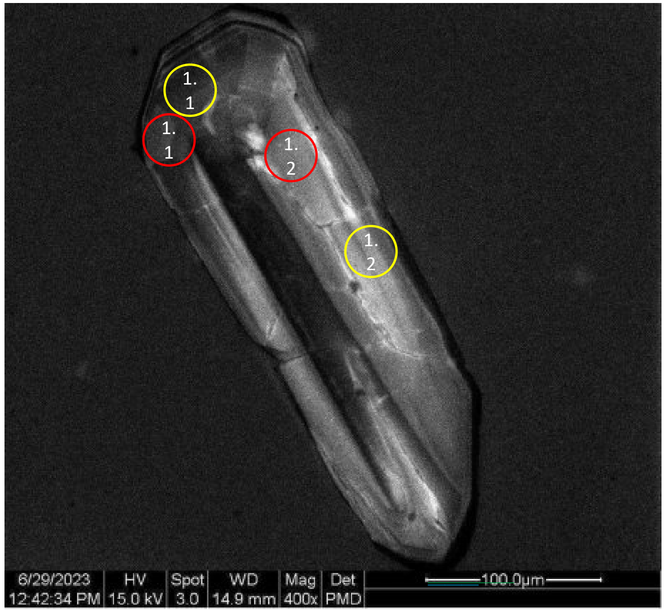
CG23CR06-CL_001.tif

2x U-Pb

1.1, 1.2

2x TE

1.1, 1.2



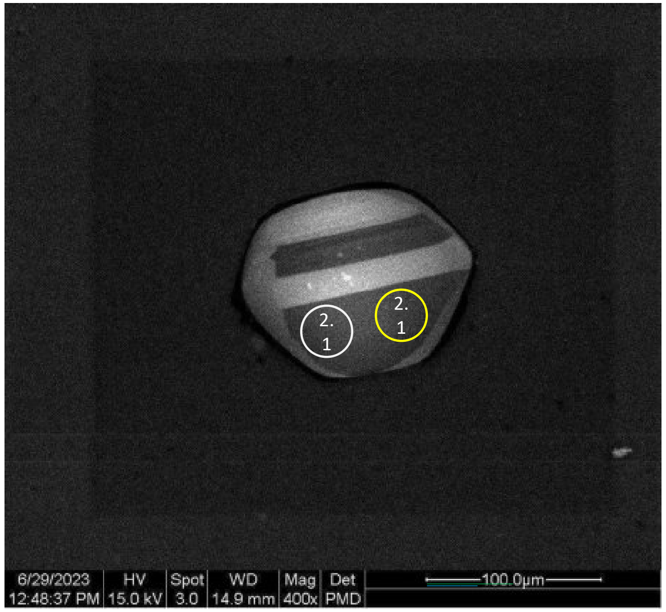
CG23CR06-CL_002.tif

1x U-Pb

2.1

1 x TE

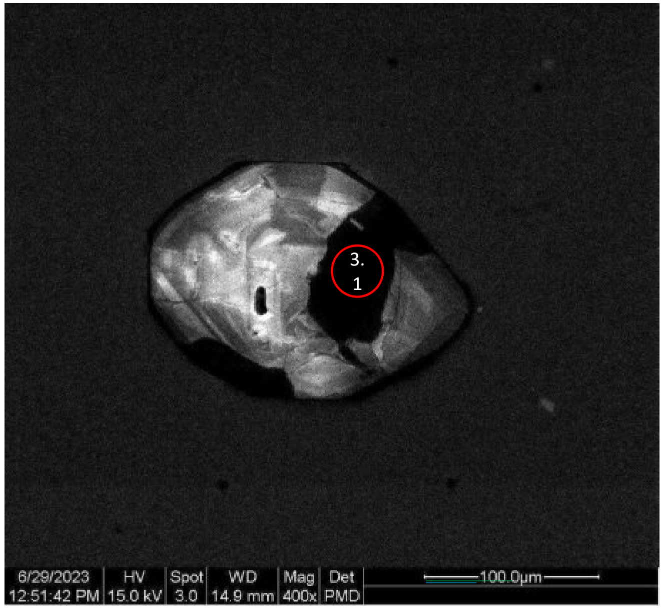
2.1



CG23CR06-CL_003.tif

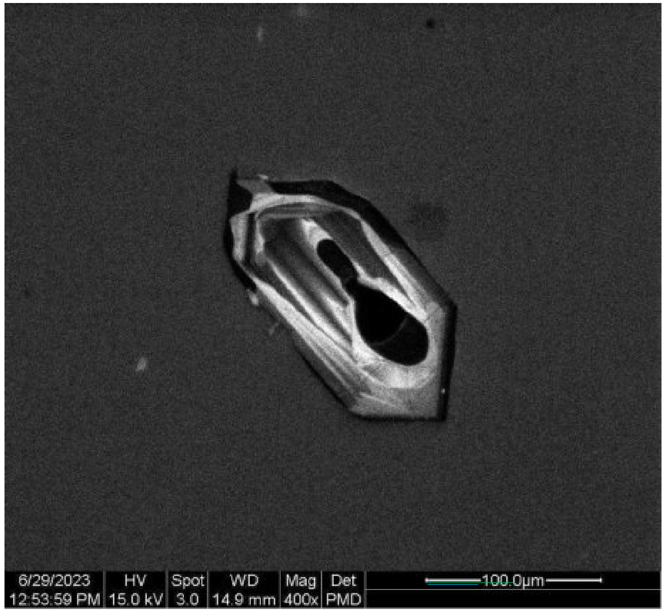
1x U-Pb

3.1



CG23CR06-CL_004.tif

No analysis. Hole in centre/too many small zones/overlapping of zones/alteration.



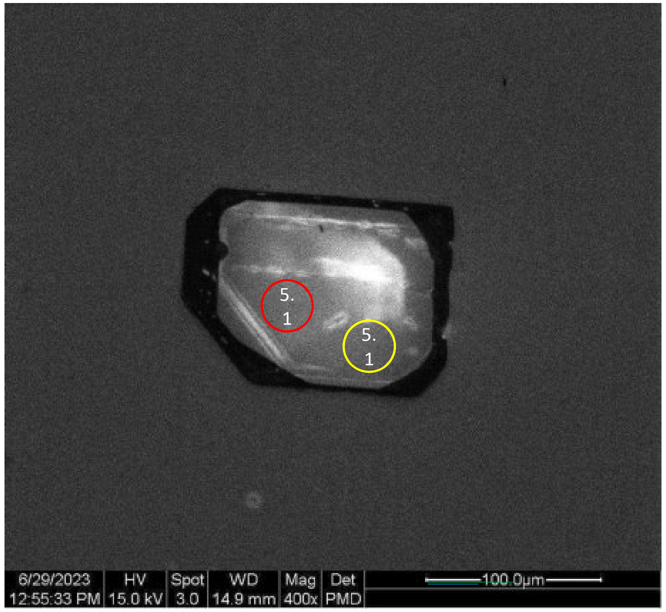
CG23CR06-CL_005.tif

1x U-Pb

5.1

1x TE

5.1



CG23CR06-CL_006.tif

1x U-Pb

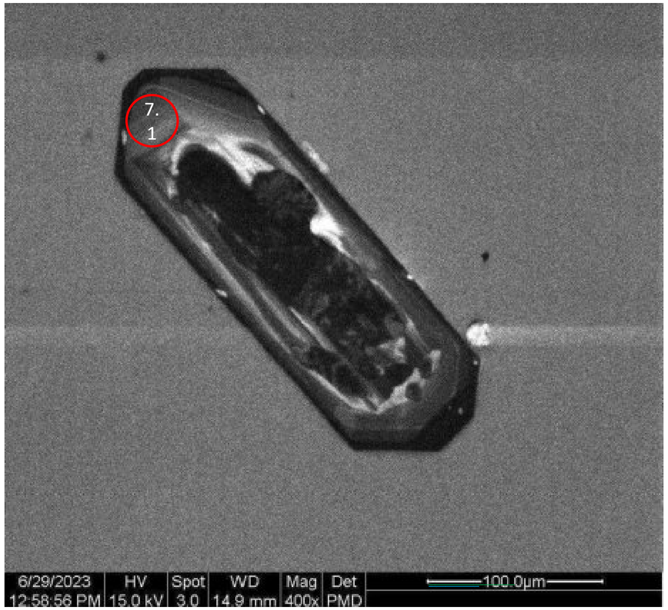
6.1

CG23CR06-CL_007.tif

1x U-Pb

7.1

Limited no. of spots due to small zones/cross-cutting of zones/alteration.

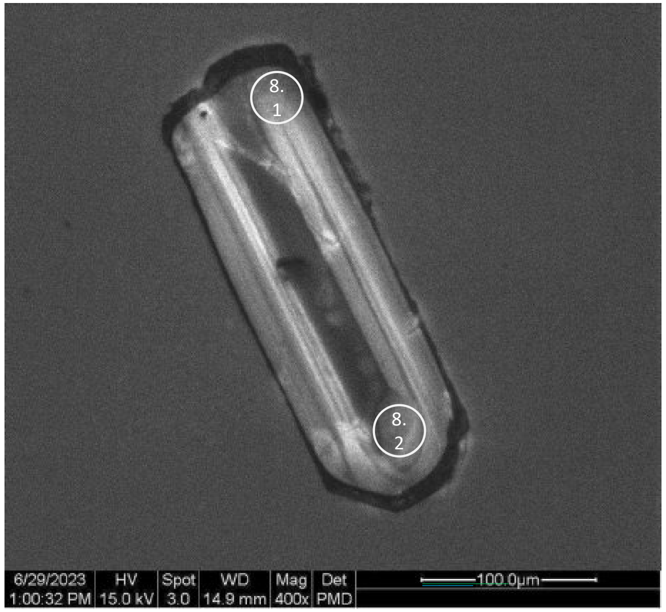


CG23CR06-
CL_008.tif

2x U-Pb

8.1, 8.2

Limited no. of spots due to small dark vs bright zones/fractures.



CG23CR06-
CL_009.tif

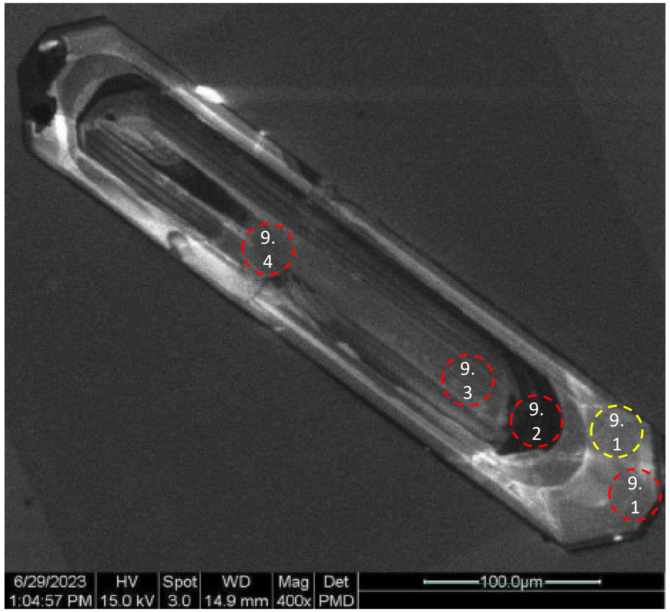
4x U-Pb

9.1, 9.2, 9.3, 9.4

1x TE

9.1

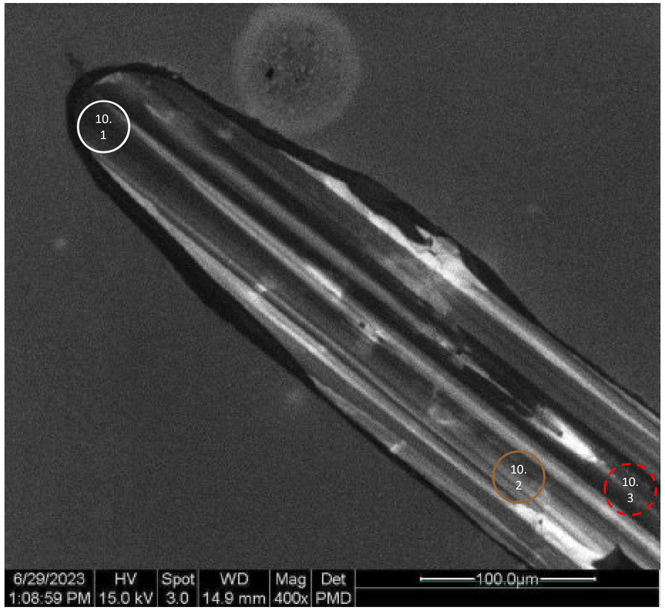
(not analysed in this study due to time constraints)



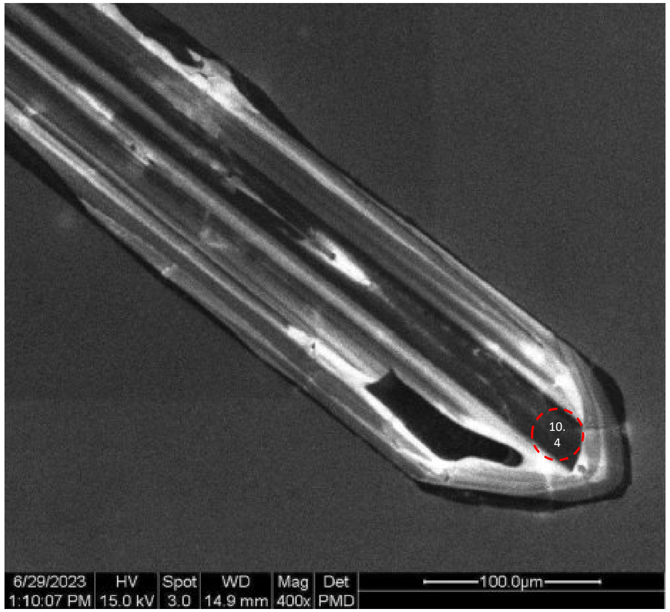
CG23CR06-
CL_010a.tif

2x U-Pb

10.1, 10.2



CG23CR06-
CL_010b.tif



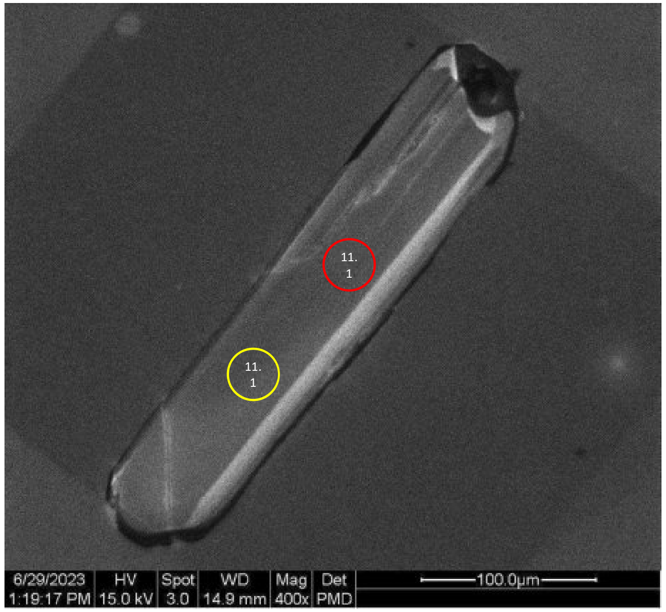
CG23CR06-
CL_011.tif

1x U-Pb

11.1

1x TE

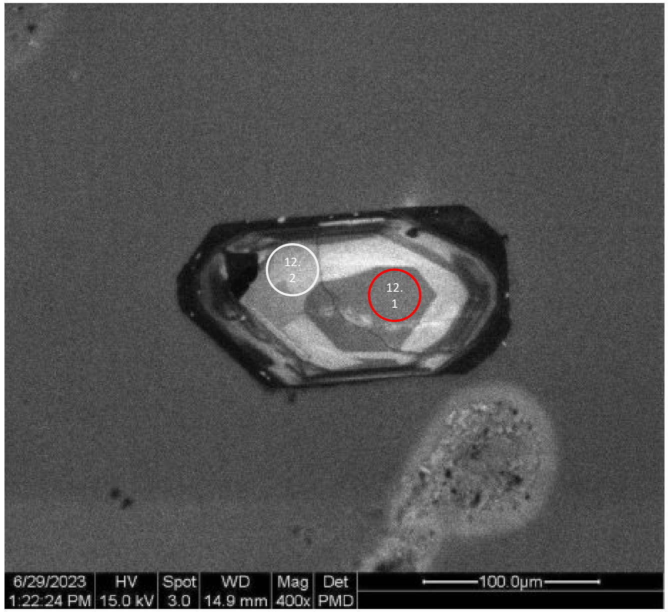
11.1



CG23CR06-
CL_012.tif

2x U-Pb

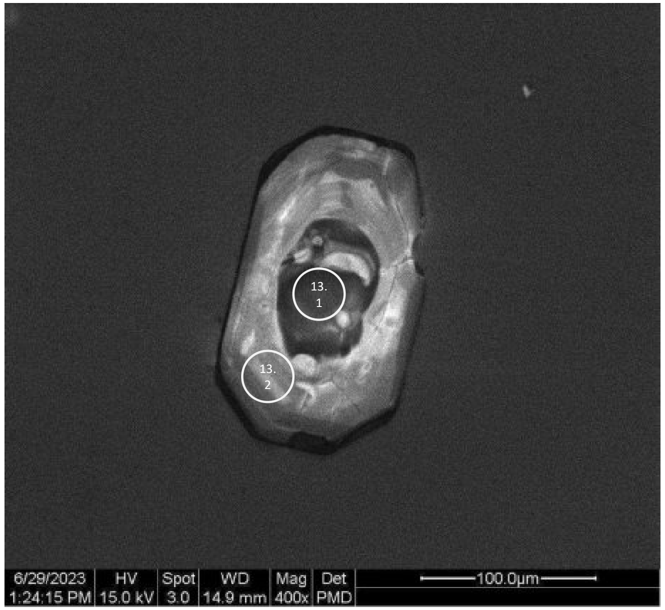
12.1, 12.2



CG23CR06-
CL_013.tif

2x U-Pb

13.1, 13.2



CG23CR06-
CL_014.tif

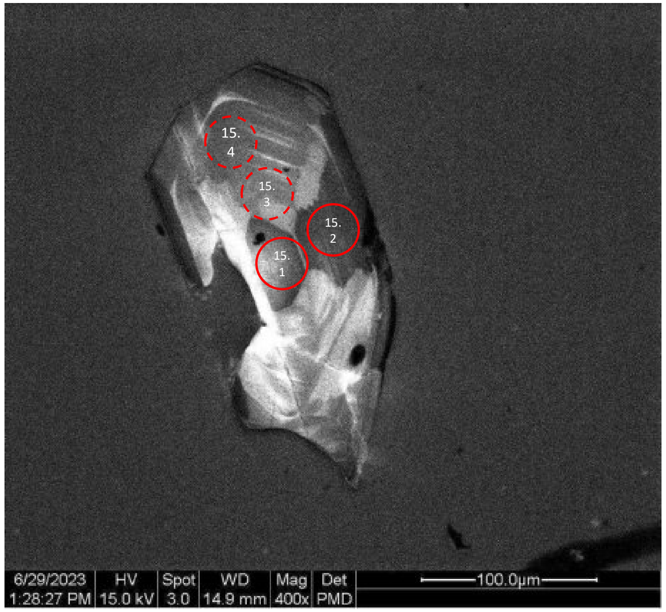
1x U-Pb

14.1

CG23CR06-
CL_015.tif

2x U-Pb

15.1, 15.2



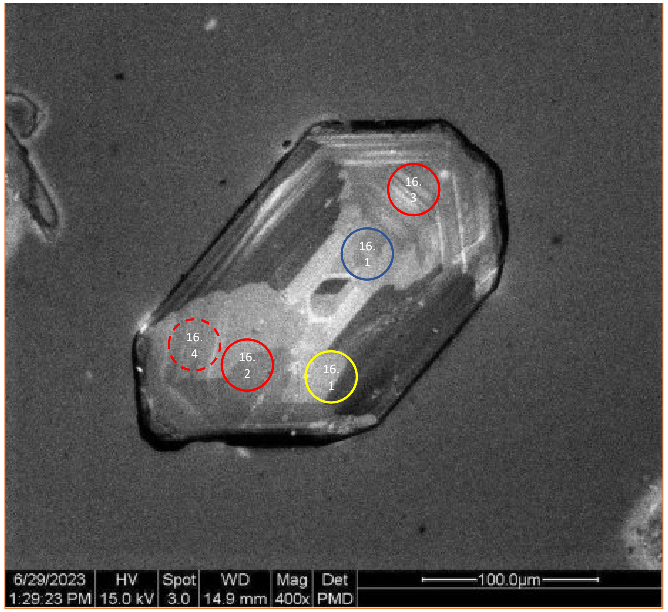
CG23CR06-
CL_016.tif

3x U-Pb

16.1, 16.2. 16.3

1x TE

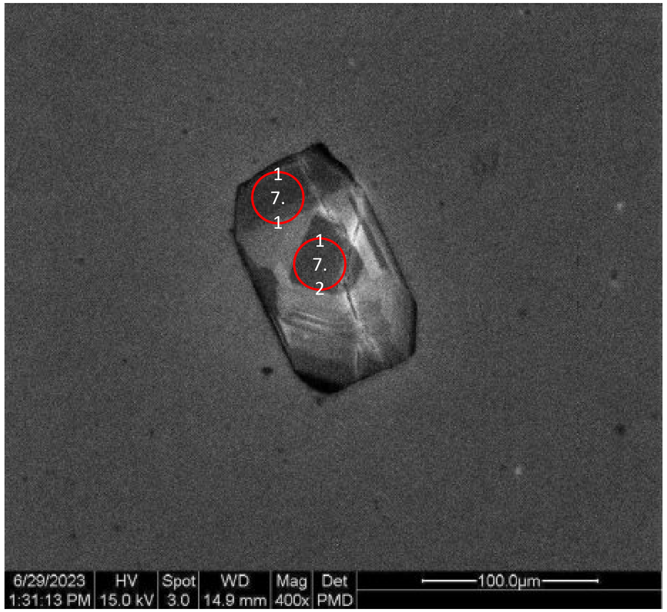
16.1



CG23CR06-
CL_017.tif

2x U-Pb

17.1, 17.2.



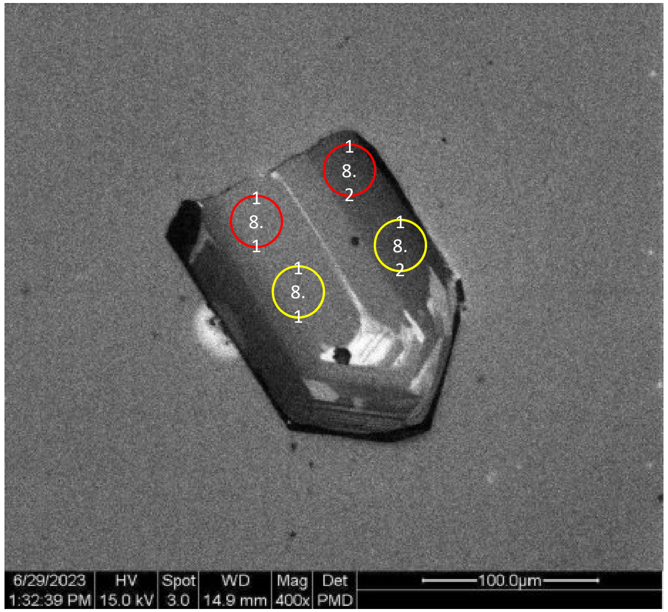
CG23CR06-
CL_018.tif

2x U-Pb

18.1, 18.2

2x TE

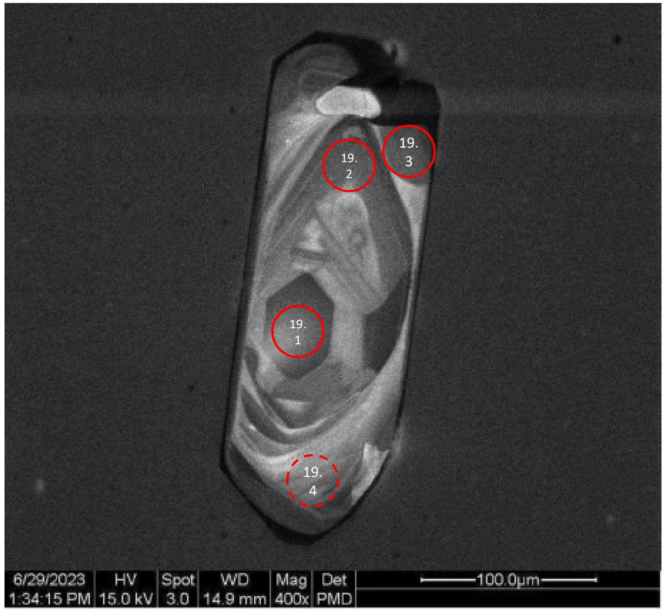
18.1, 18.2



CG23CR06-
CL_019.tif

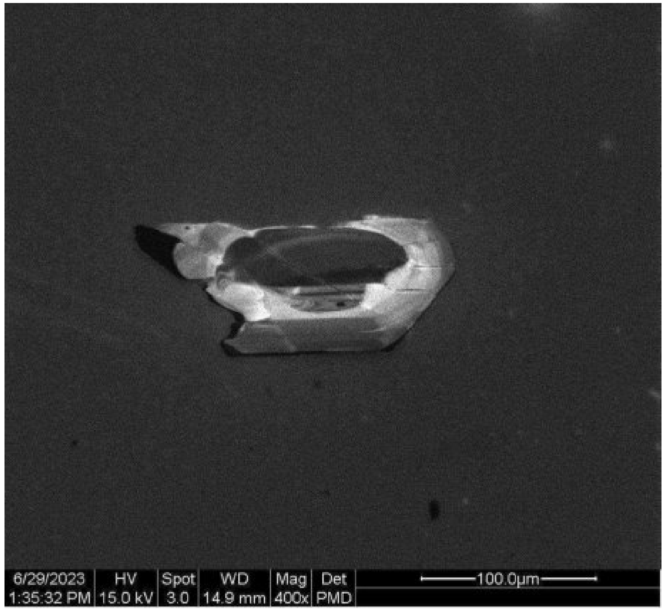
3x U-Pb

19.1, 19.2, 19.3



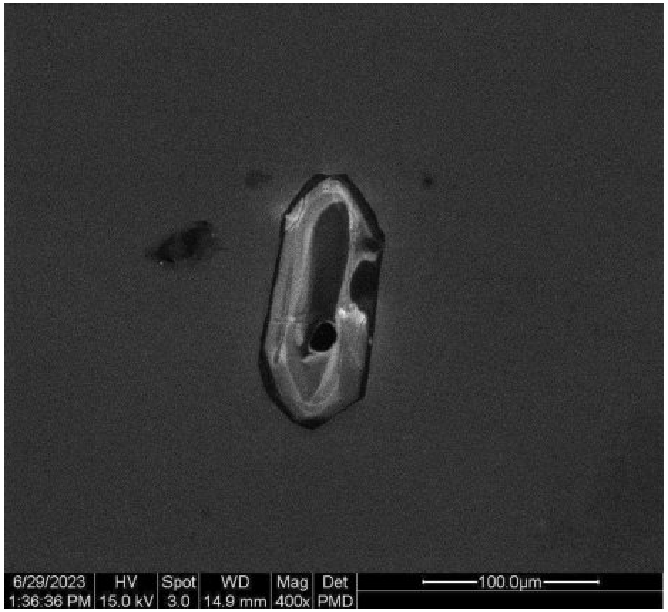
CG23CR06-
CL_020.tif

No analysis. Too fractured/zones too small.



CG23CR06-
CL_021.tif

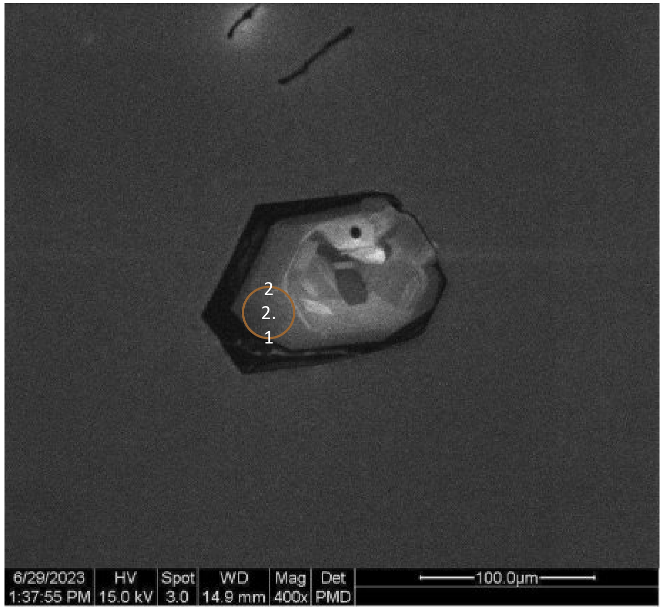
No analysis. Too fractured/zones too small.



CG23CR06-
CL_022.tif

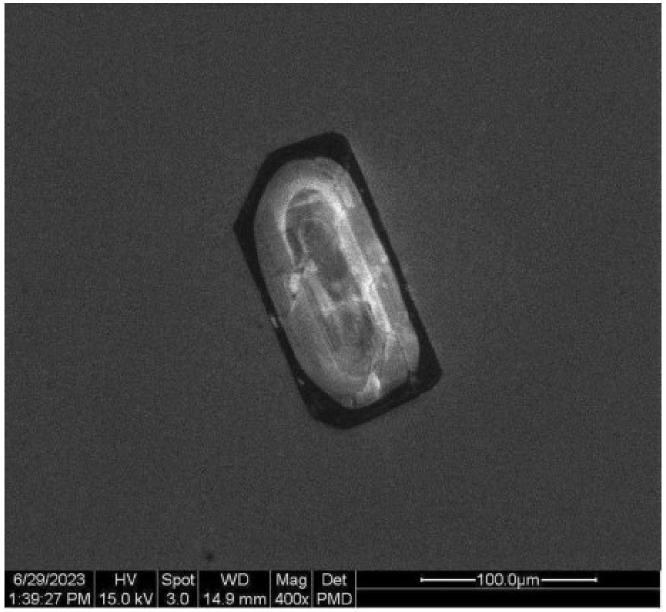
1x U-Pb

22.1



CG23CR06-
CL_023.tif

No analysis. Too fractured/zones too small.



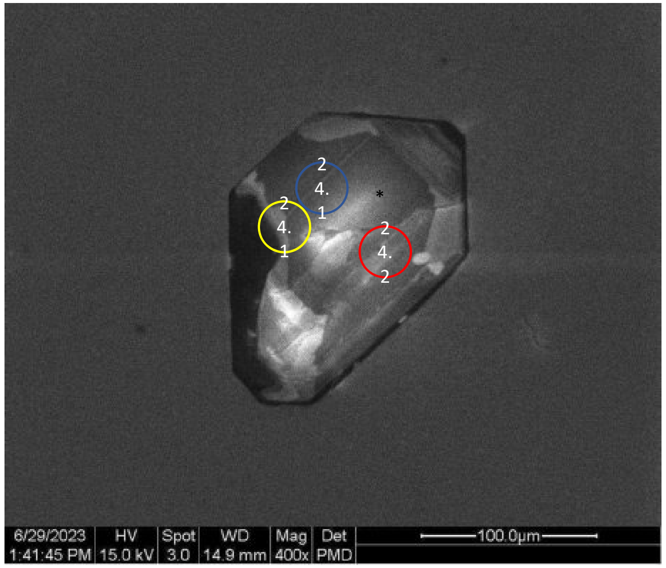
CG23CR06-
CL_024.tif

2x U-Pb

24.1, 24.2

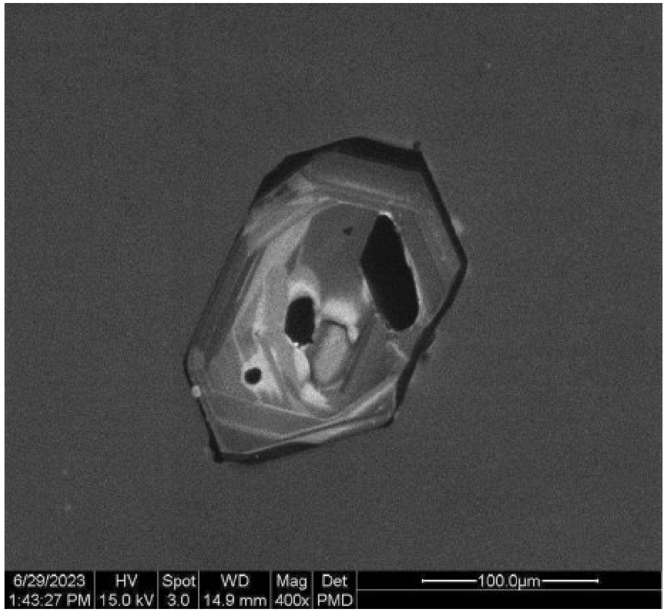
1x TE

24.1



CG23CR06-
CL_025.tif

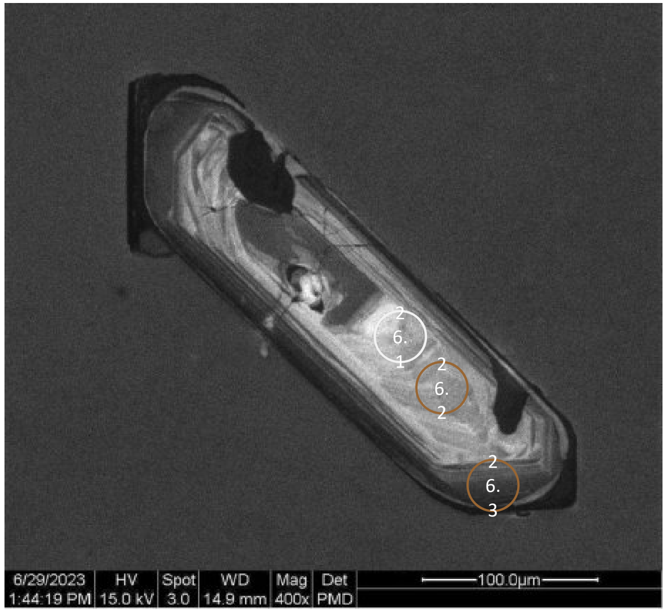
No analysis. Zones too small/too many inclusions and assoc. fractures/overlapping and cross-cutting of zones.



CG23CR06-
CL_026.tif

3x U-Pb

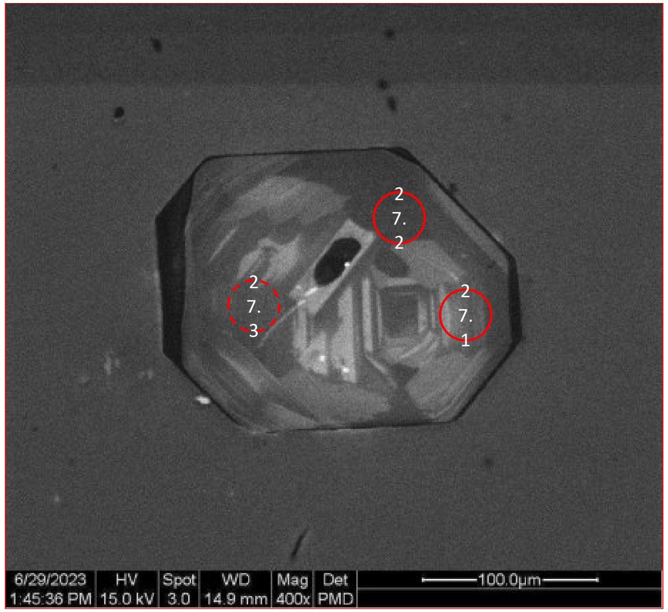
26.1, 26.2, 26.3



CG23CR06-
CL_027.tif

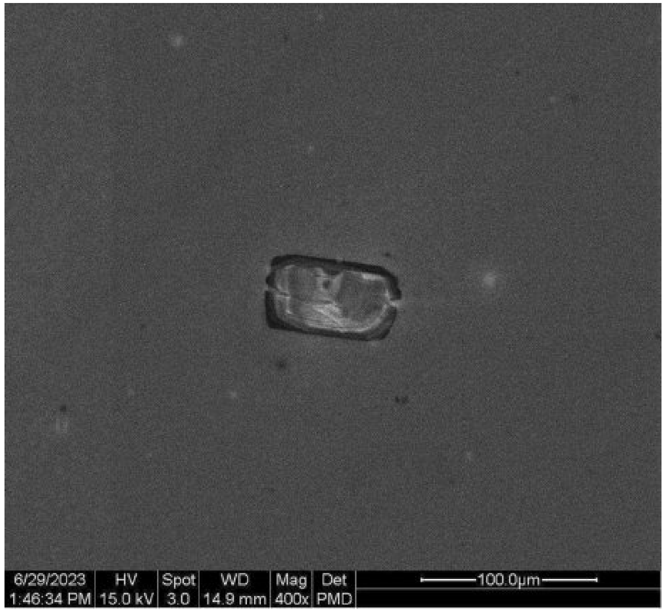
2x U-Pb

27.1, 27.2



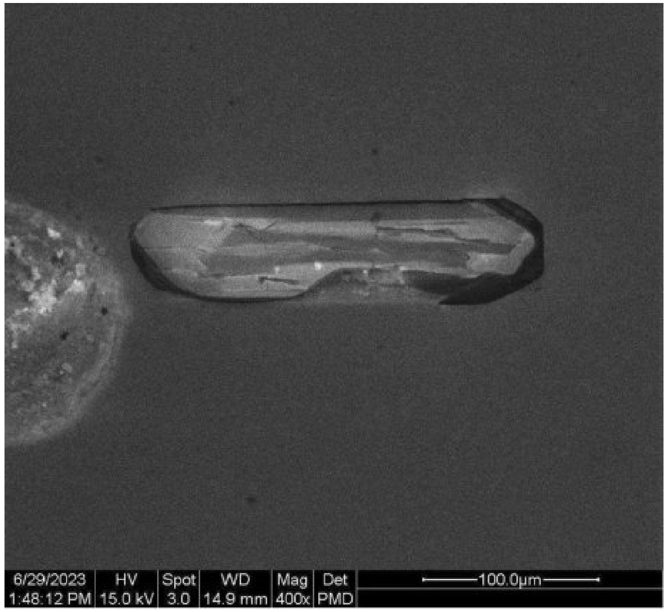
CG23CR06-
CL_028.tif

No analysis. Grain too small.



CG23CR06-
CL_029.tif

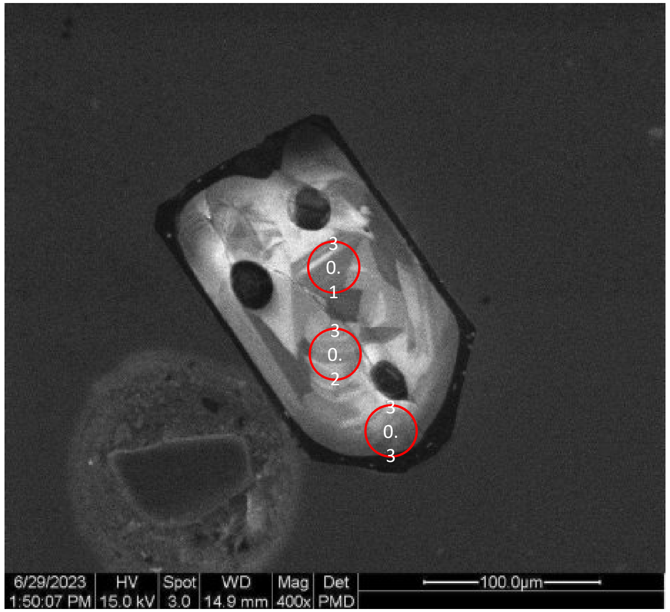
No analysis. Grain too fractured.



CG23CR06-
CL_030.tif

3x U-Pb

30.1, 30.2, 30.3



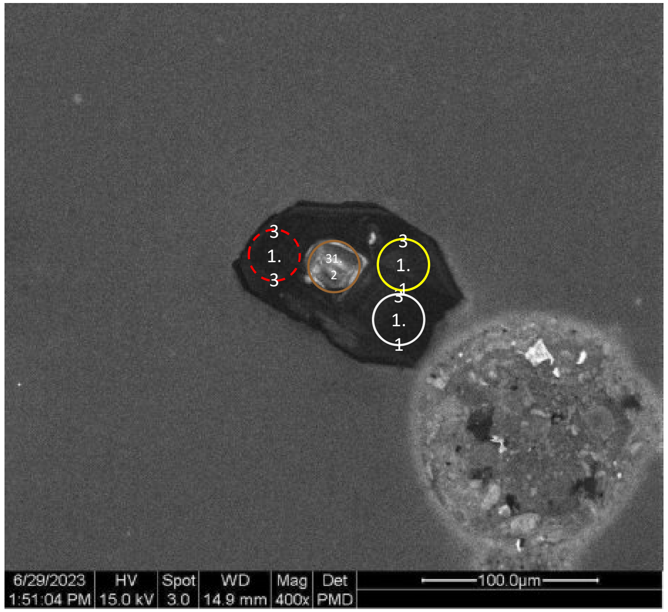
CG23CR06-
CL_031.tif

2x U-Pb

31.1, 31.2

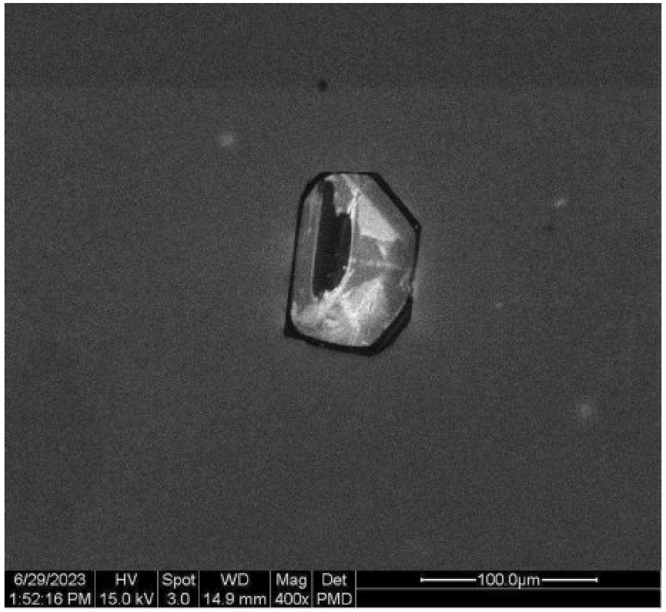
1x TE

31.1



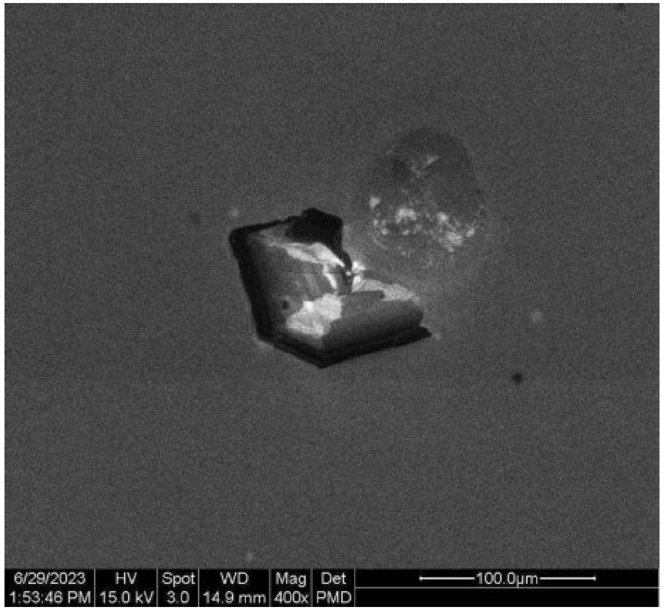
CG23CR06-
CL_032.tif

No analysis. Grain too small/too fractured.



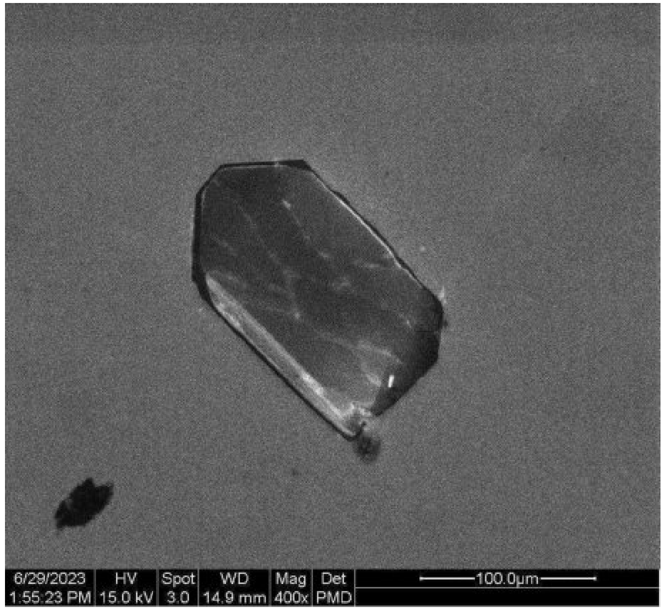
CG23CR06-
CL_033.tif

No analysis. Grain too small/too fractured.



CG23CR06-
CL_034.tif

No analysis. Grain too fractured.

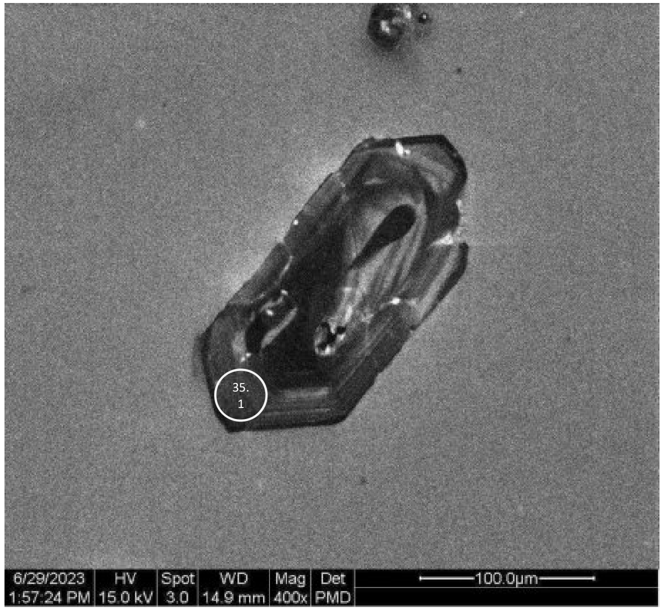


CG23CR06-CL_035.tif

1x U-Pb

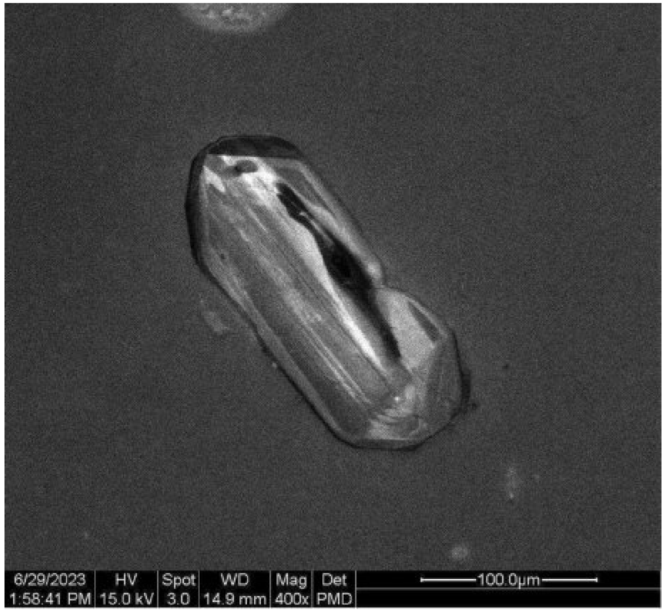
35.1

Otherwise, grain too altered/fractured.



CG23CR06-CL_036.tif

No analysis. Grain too fractured.



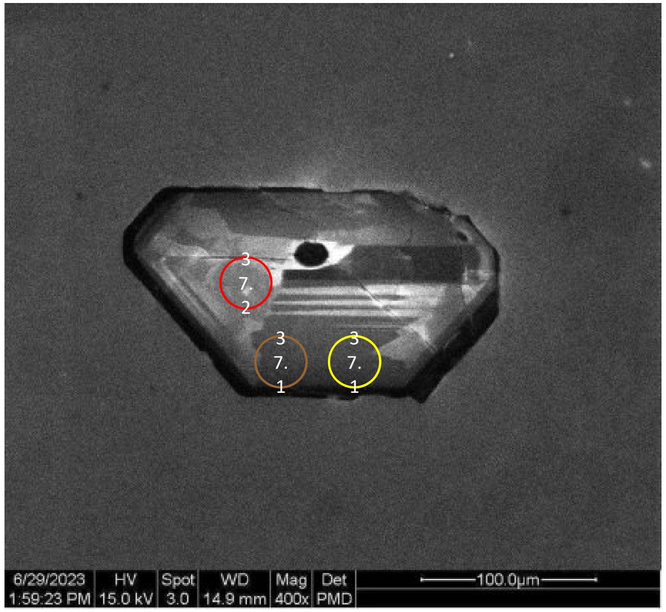
CG23CR06-CL_037.tif

2x U-Pb

37.1, 37.2

1x TE

37.1



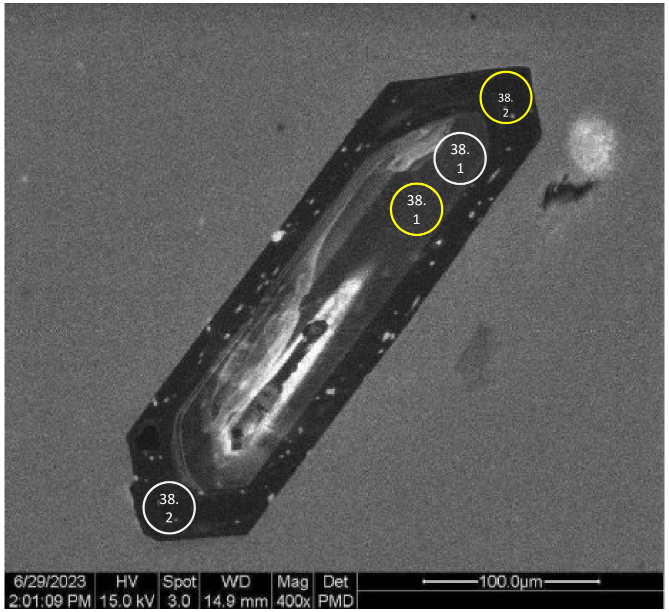
CG23CR06-CL_038.tif

2x U-Pb

38.1, 38.2

1x TE

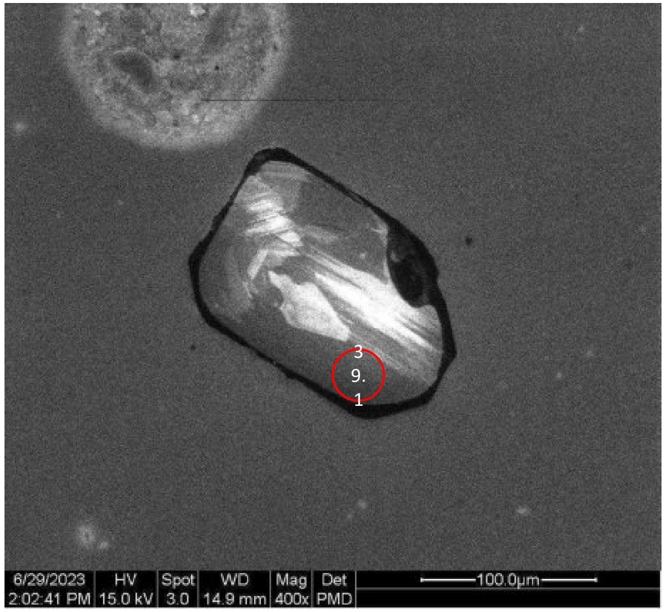
38.1



CG23CR06-CL_039.tif

1x U-Pb

39.1



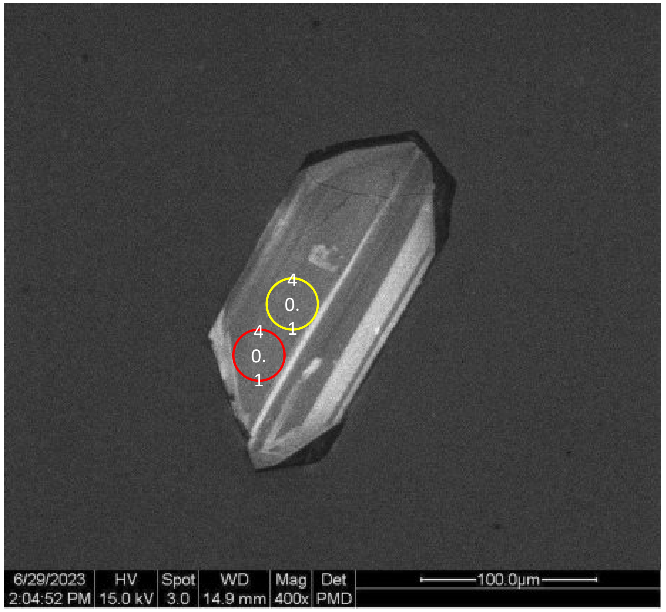
CG23CR06-CL_040.tif

1x U-Pb

40.1

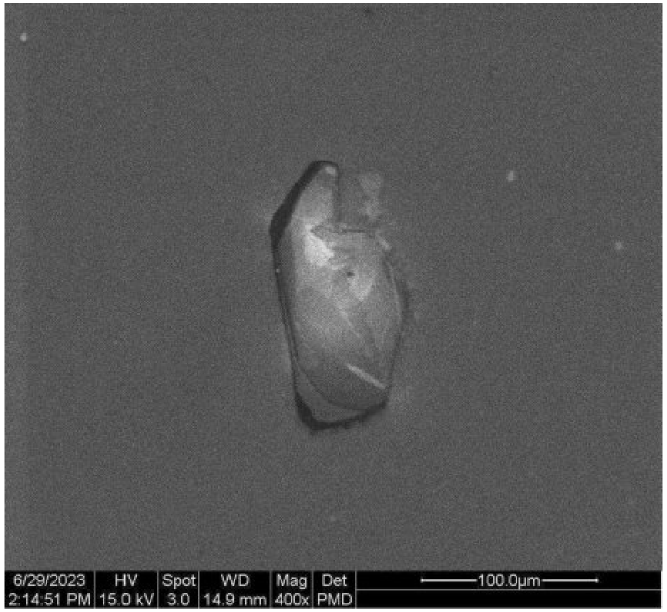
1x TE

40.1



CG23CR06-CL_041.tif

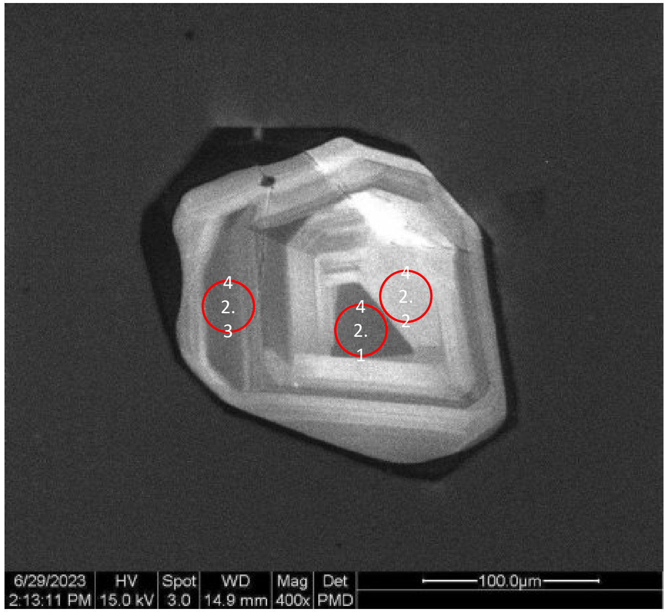
No analysis. Grain too small.



CG23CR06-CL_042.tif

3x U-Pb

42.1, 42.2, 42.3



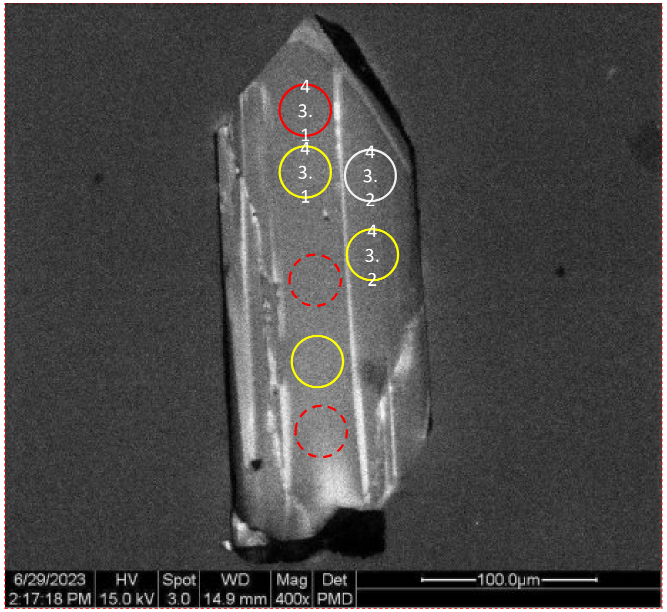
CG23CR06-CL_043.tif

2x U-Pb

43.1, 43.2

3x TE

43.1, 43.2, 43.3



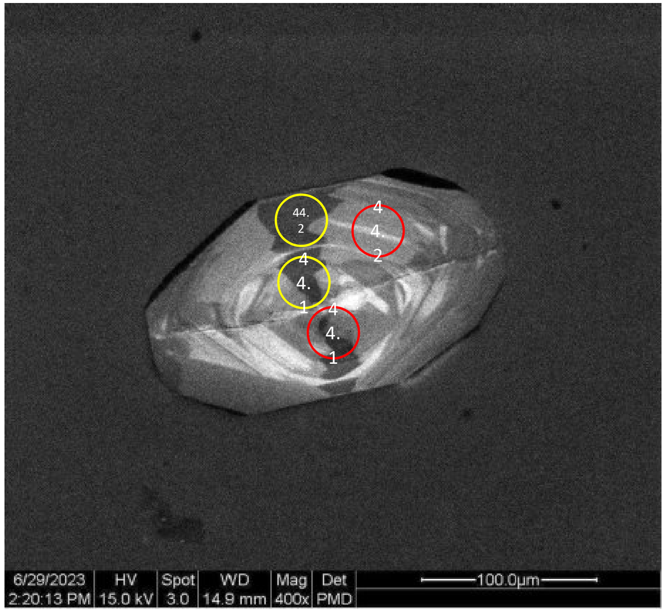
CG23CR06-CL_044.tif

2x U-Pb

44.1, 44.2

2x TE

44.1, 44.2



CG23CR06-CL_045.tif

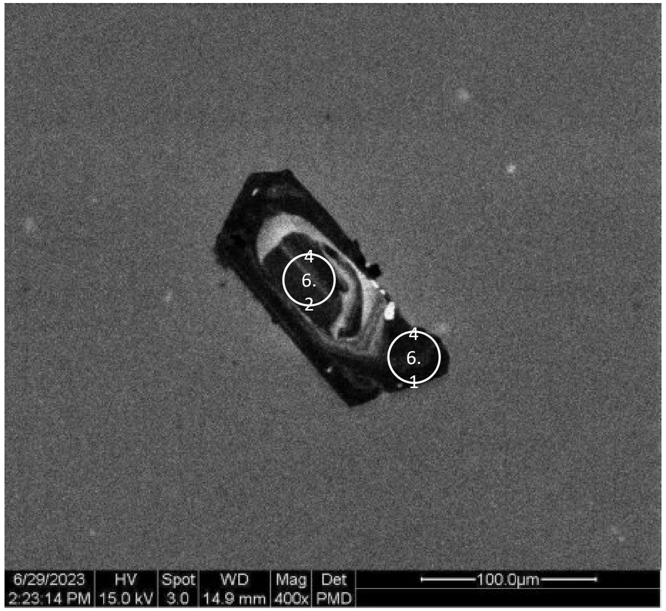
1x U-Pb

45.1

CG23CR06-CL_046.tif

2x U-Pb

46.1, 46.2



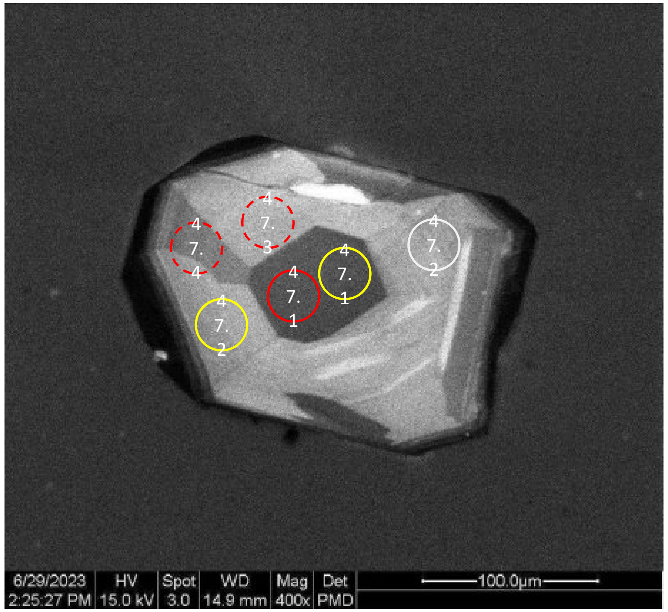
CG23CR06-CL_047.tif

2x U-Pb

47.1, 47.2

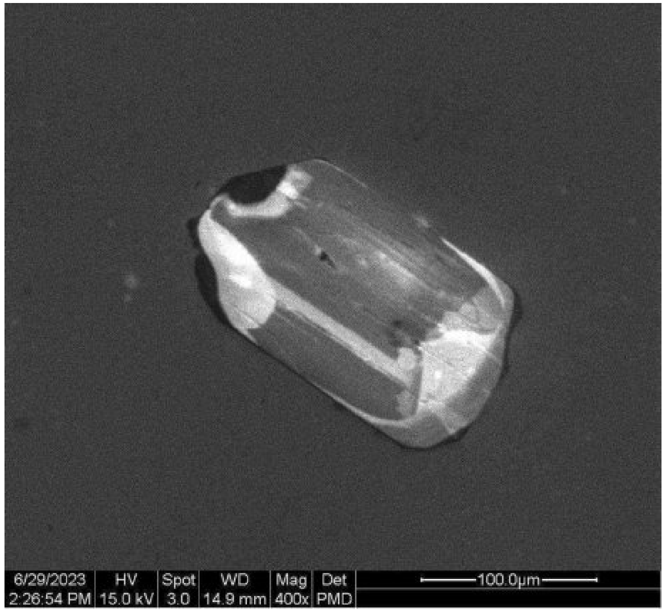
2x TE

47.1, 47.2



CG23CR06-CL_048.tif

No analysis. Grain too fractured.



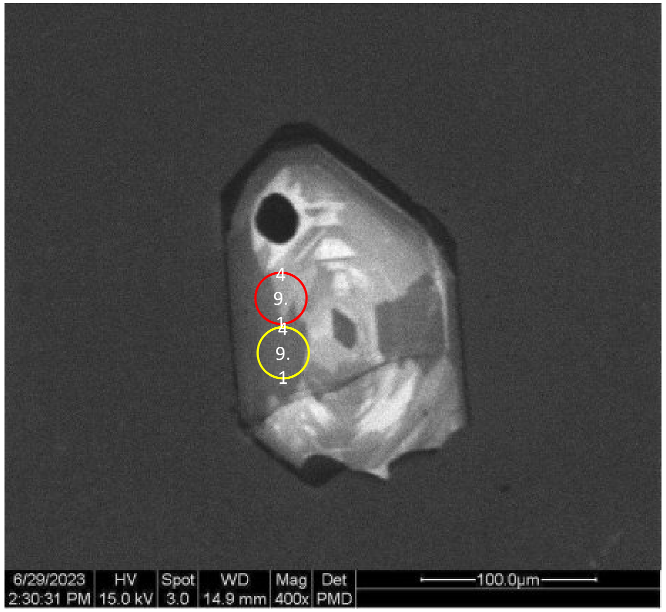
CG23CR06-CL_049.tif

1x U-Pb

49.1

1x TE

49.1



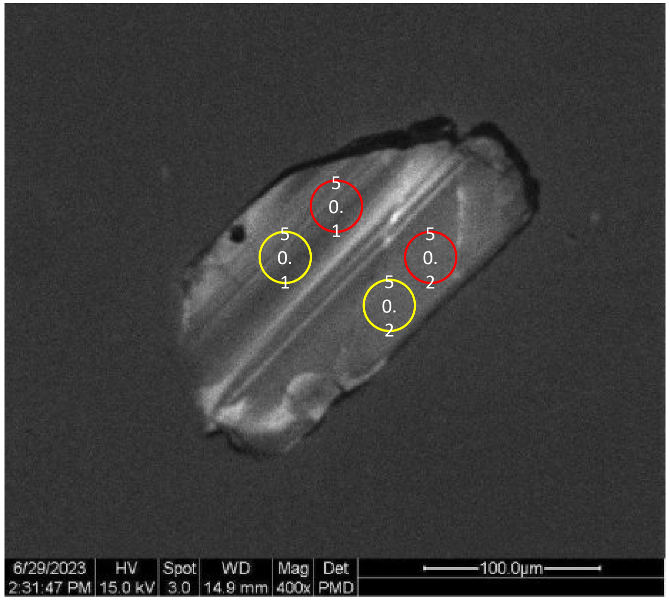
CG23CR06-CL_050.tif

2x U-Pb

50.1, 50.2

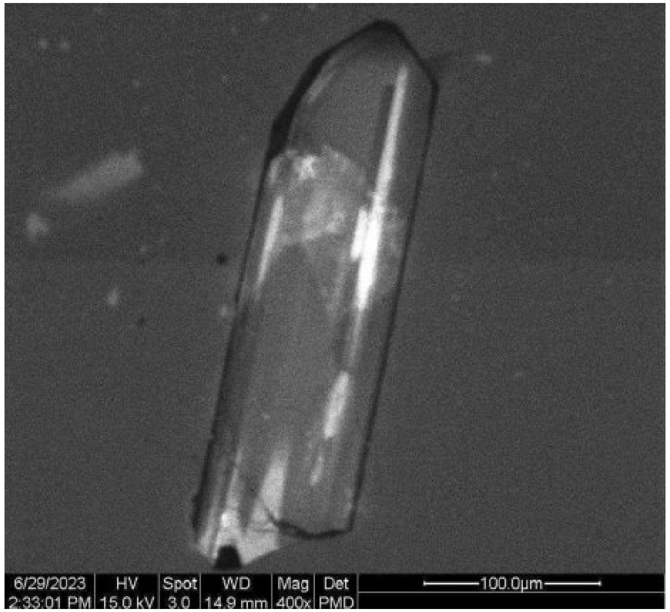
2x TE

50.1, 50.2



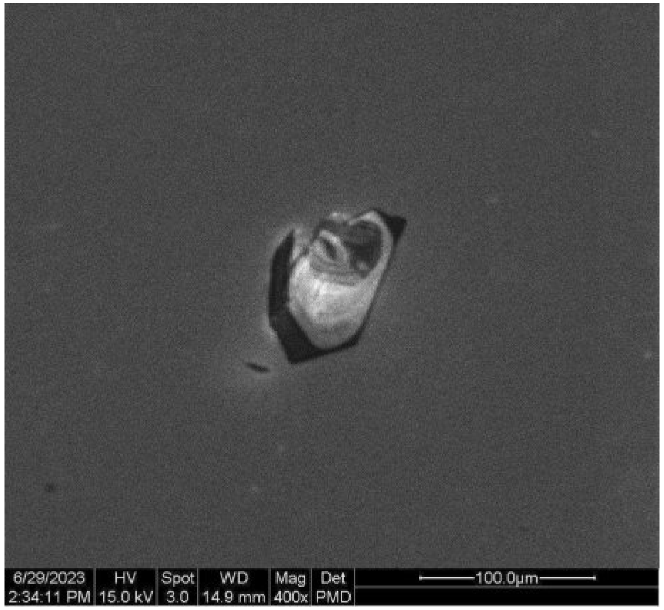
CG23CR06-
CL_051.tif

No analysis. Grain too fractured.



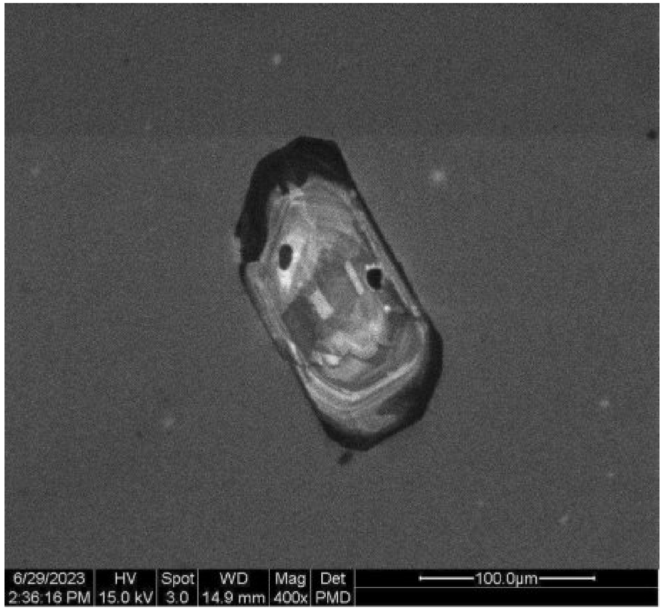
CG23CR06-
CL_052.tif

No analysis. Grain too small.



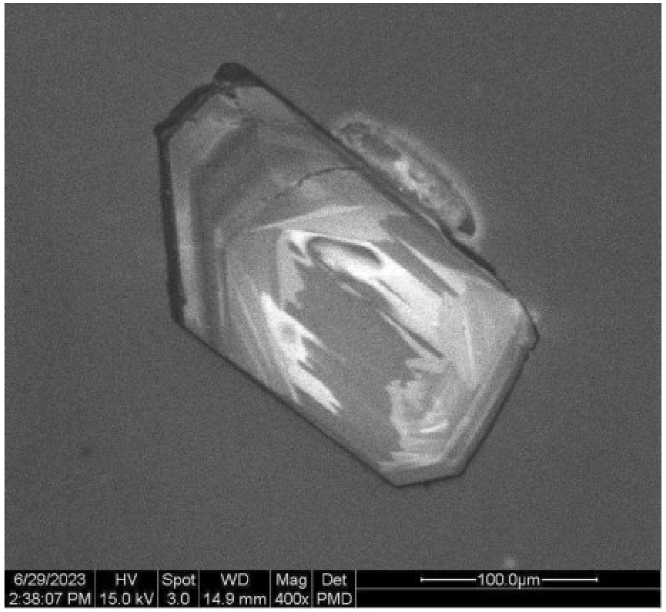
CG23CR06-
CL_053.tif

No analysis. Grain too fractured/altered.



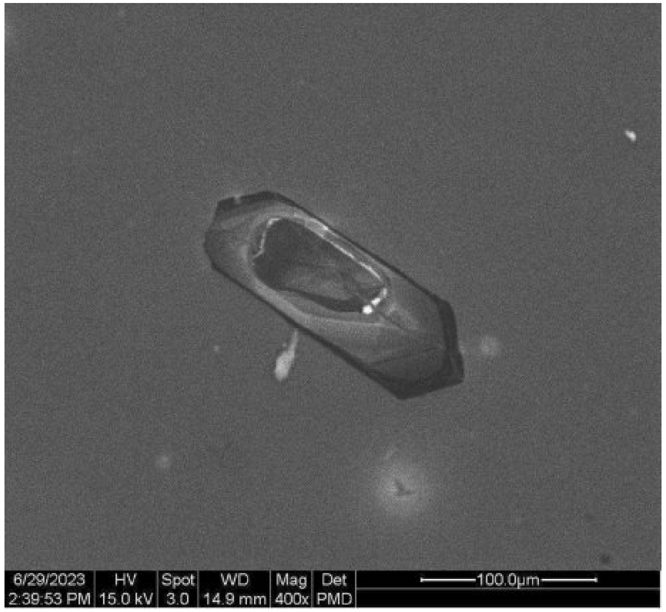
CG23CR06-
CL_054.tif

No analysis. Grain too altered/no clear distinguishable zones.



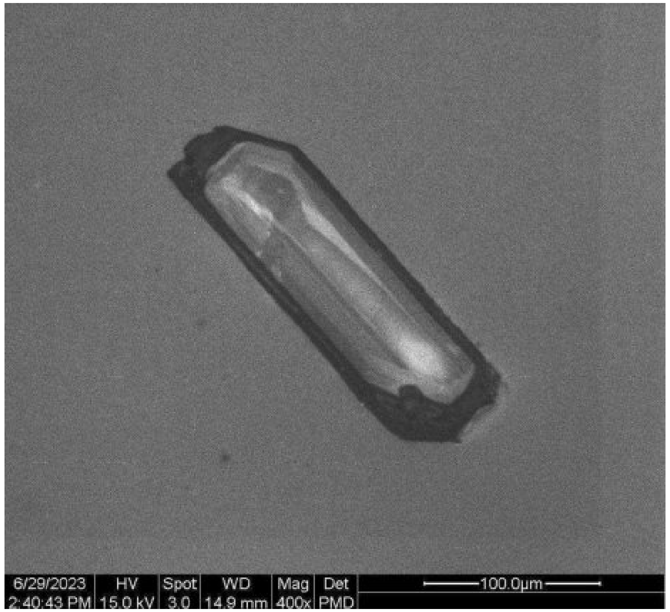
CG23CR06-CL_055.tif

No analysis. Zones too small/too many fractures.



CG23CR06-CL_056.tif

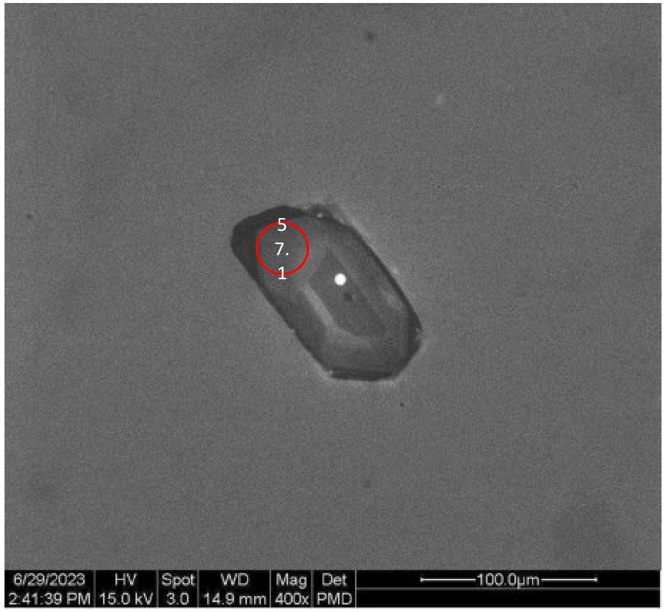
No analysis. Zones too small.



CG23CR06-CL_057.tif

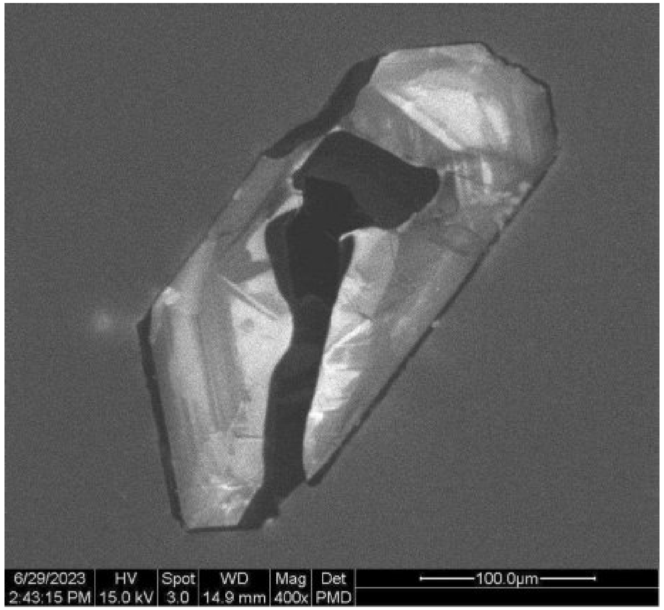
1x U-Pb

57.1



CG23CR06-CL_058.tif

No analysis. Grain is far too altered/zones too small/too many fractures, inclusions.



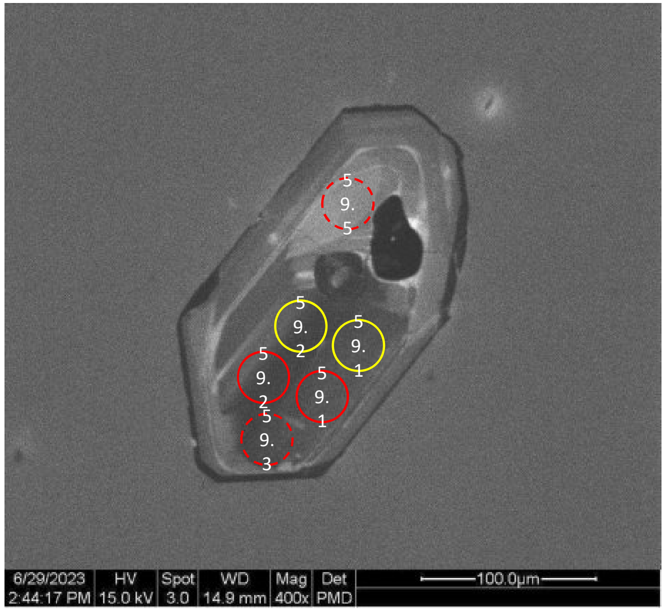
CG23CR06-CL_059.tif

2x U-Pb

59.1, 59.2

2x TE

59.1, 59.2



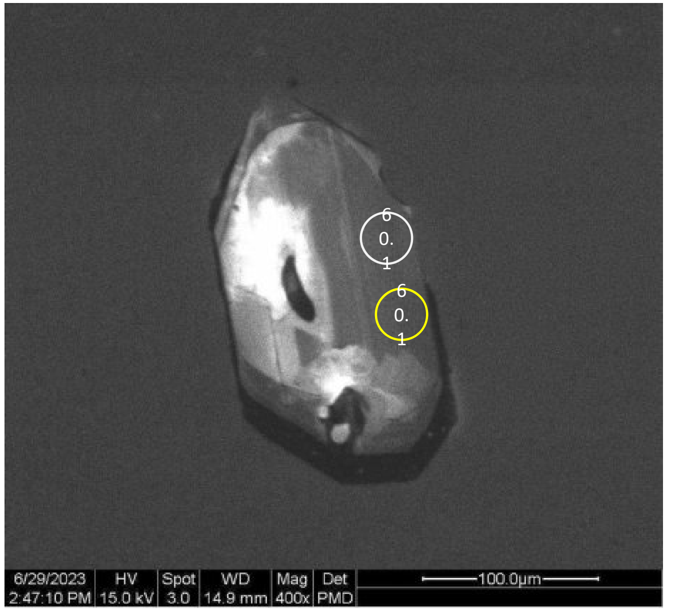
CG23CR06-CL_060.tif

1x U-Pb

60.1

1x TE

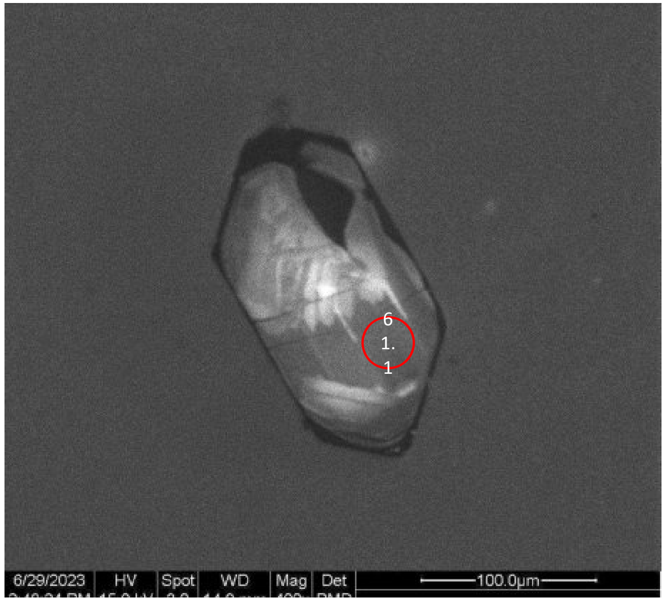
60.1



CG23CR06-CL_061.tif

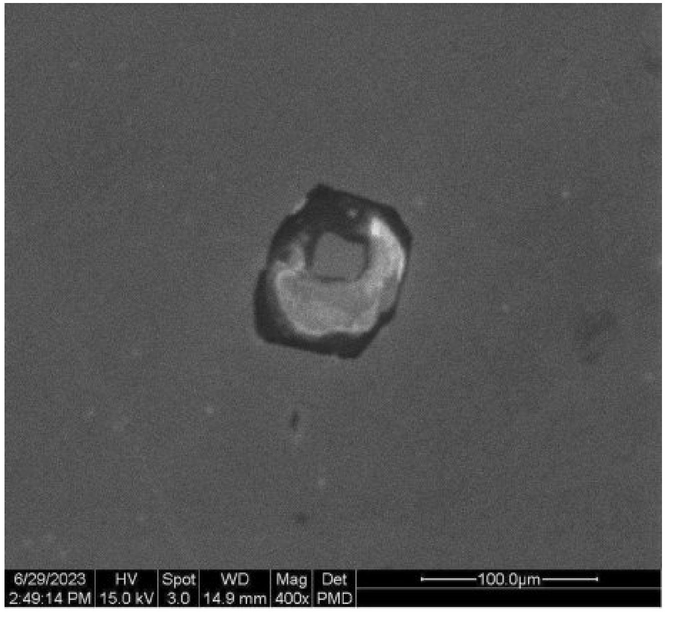
1x U-Pb

61.1



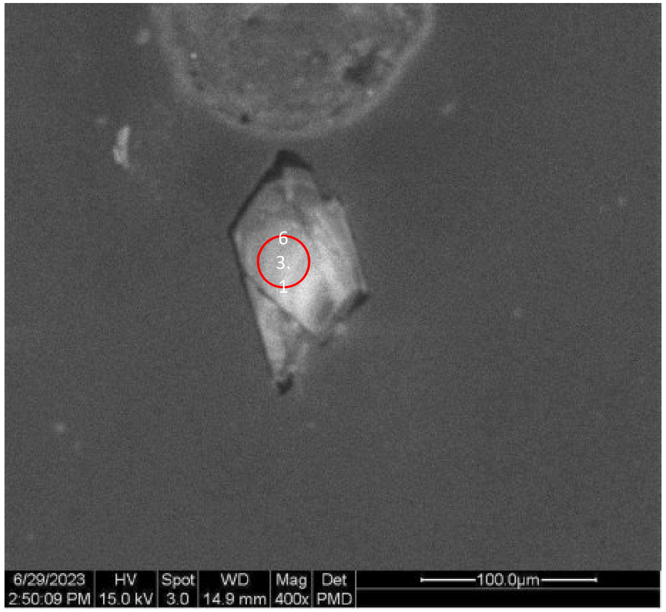
CG23CR06-CL_062.tif

Grain too small.



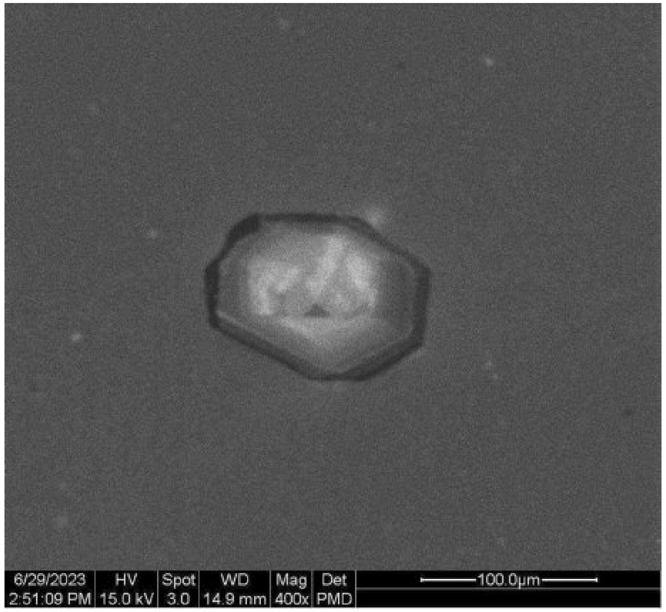
CG23CR06-CL_063.tif

Grain too small.



CG23CR06-CL_064.tif

Grain too small.



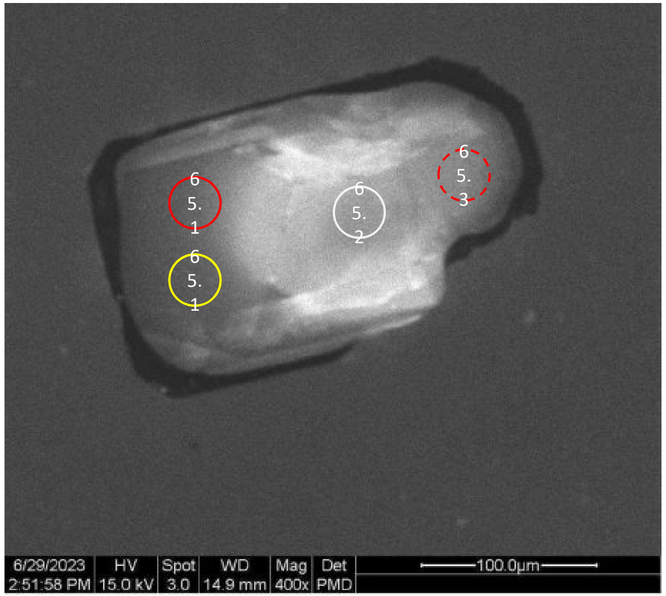
CG23CR06-CL_065.tif

2x U-Pb

65.1, 65.2

1x TE

65.1



Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Emplacement zircons (i.e., zircons included in emplacement age calculation)

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

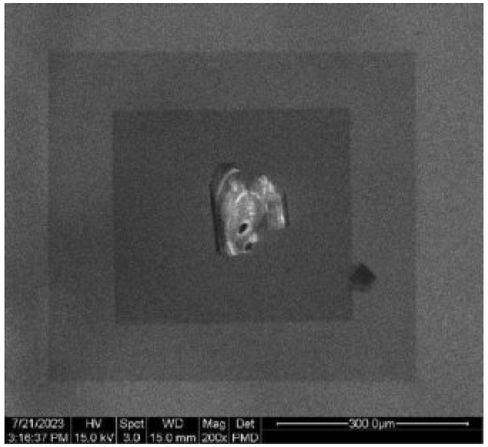
Xenocrystic zircons (i.e., grains with spots > 425 Ma)

Discordant points

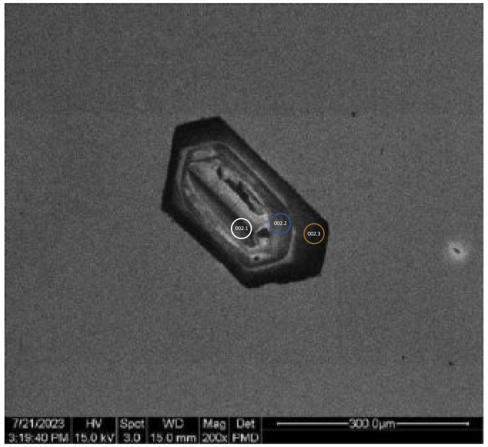
NA = not analysed

CG23CR07-
CL_001.tif

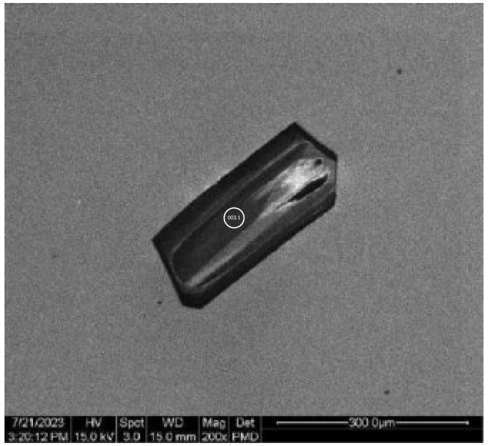
NA



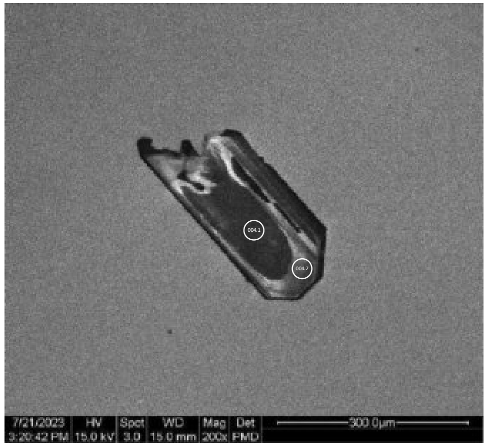
CG23CR07-
CL_002.tif



CG23CR07-
CL_003.tif

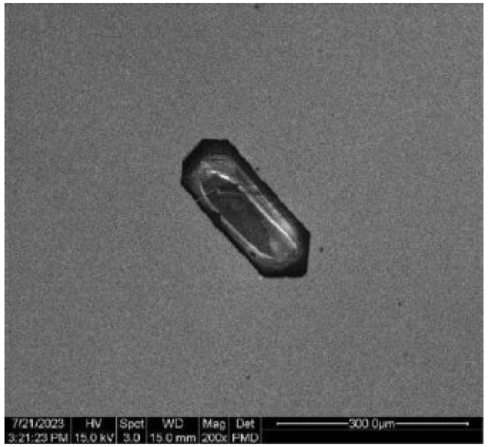


CG23CR07-
CL_004.tif

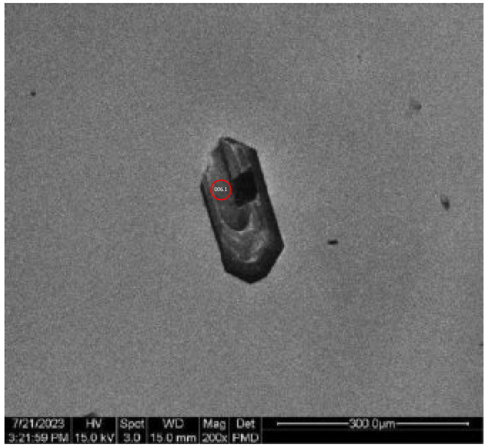


CG23CR07-
CL_005.tif

NA

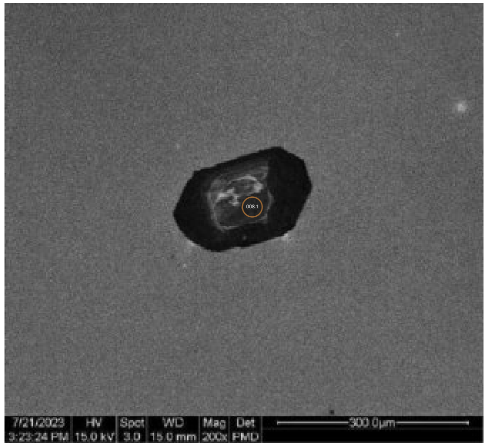


CG23CR07-
CL_006.tif

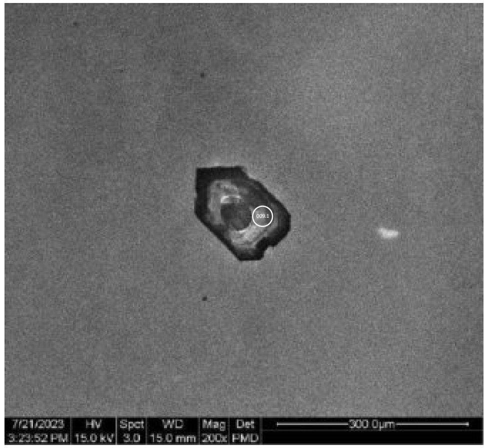


CG23CR07-
CL_007.tif

CG23CR07-
CL_008.tif

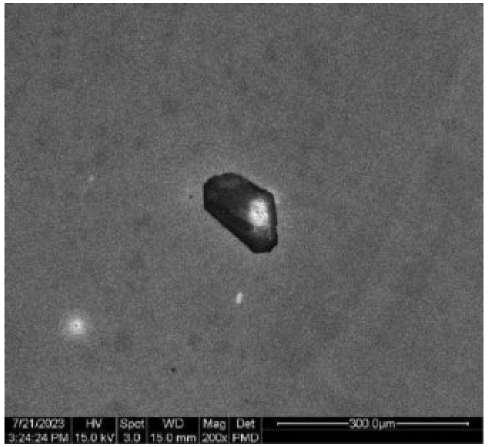


CG23CR07-
CL_009.tif



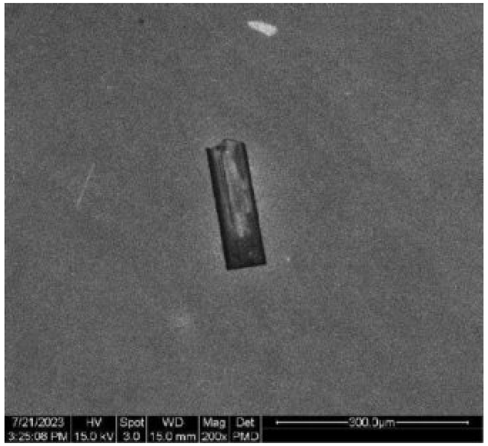
CG23CR07-
CL_010.tif

NA

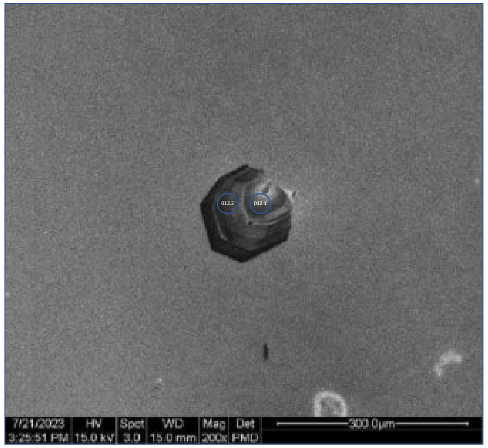


CG23CR07-
CL_011.tif

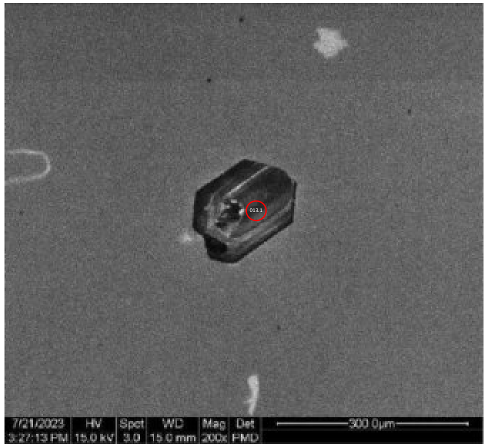
NA



CG23CR07-
CL_012.tif

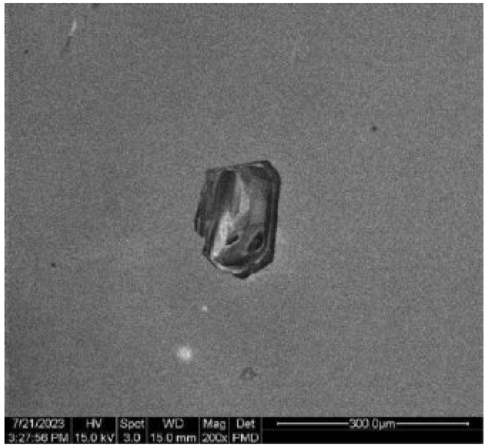


CG23CR07-
CL_013.tif



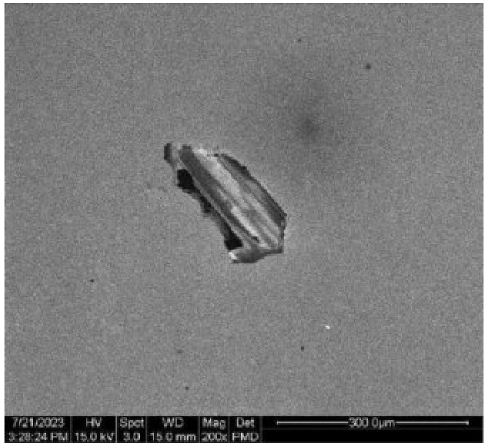
CG23CR07-
CL_014.tif

NA

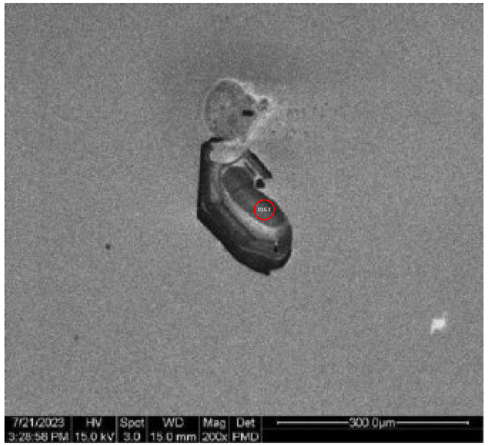


CG23CR07-
CL_015.tif

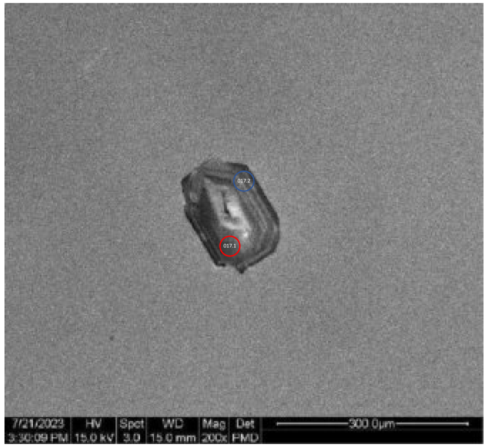
NA



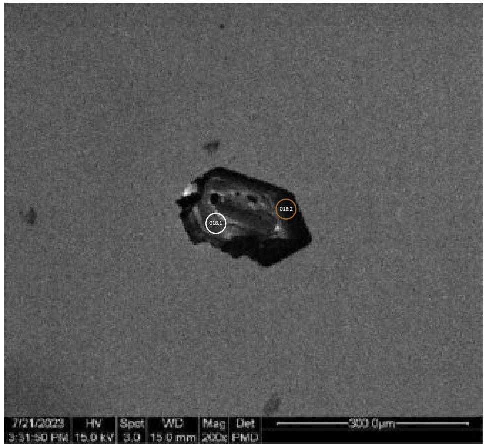
CG23CR07-
CL_016.tif



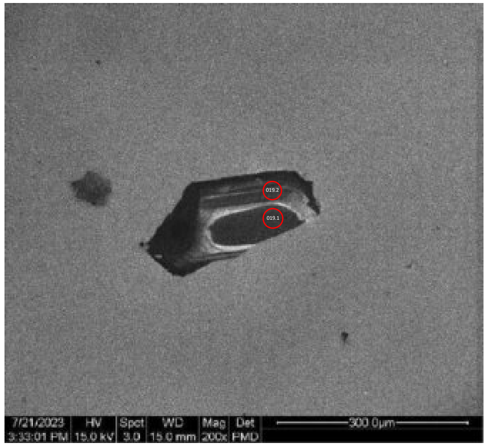
CG23CR07-
CL_017.tif



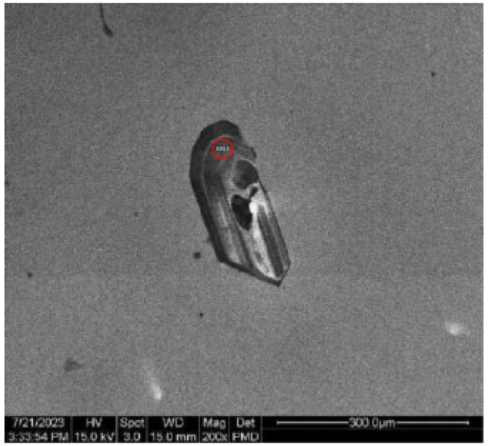
CG23CR07-
CL_018.tif



CG23CR07-
CL_019.tif

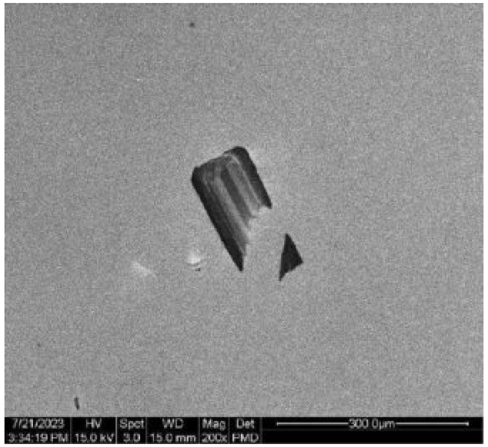


CG23CR07-
CL_020.tif

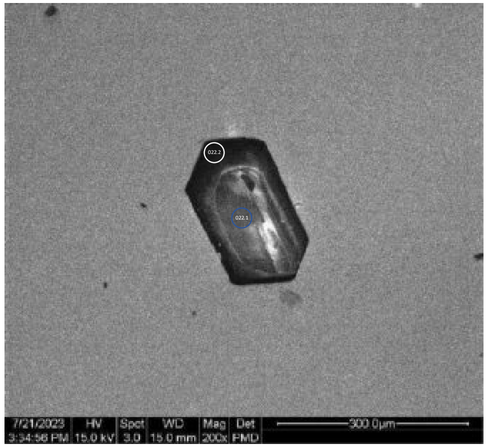


CG23CR07-
CL_021.tif

NA

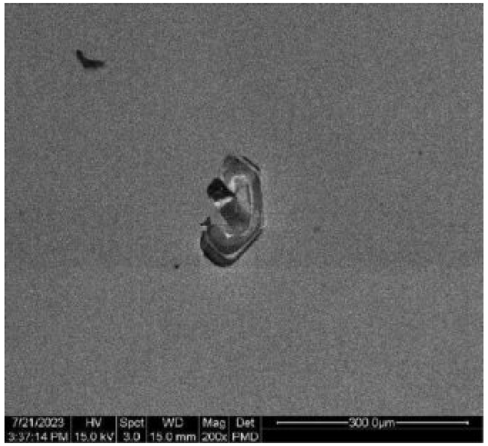


CG23CR07-
CL_022.tif

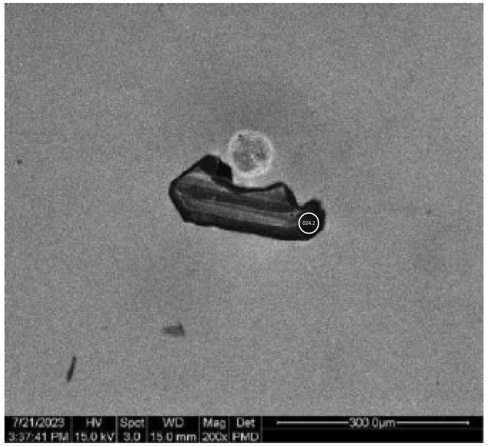


CG23CR07-
CL_023.tif

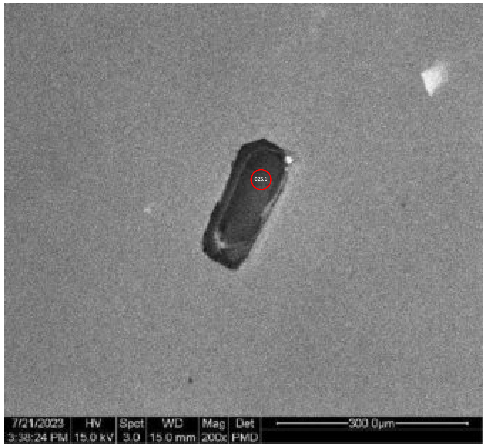
NA



CG23CR07-
CL_024.tif

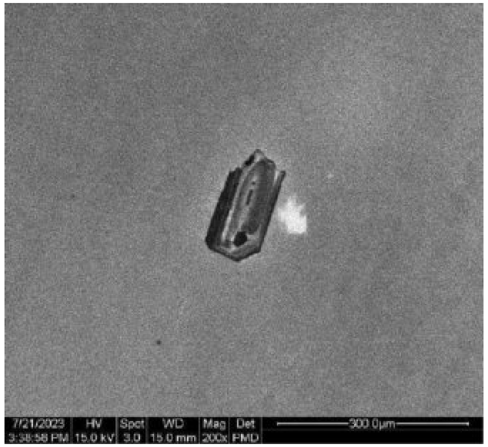


CG23CR07-
CL_025.tif

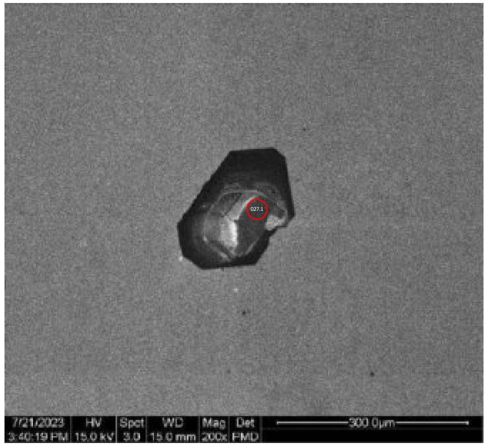


CG23CR07-
CL_026.tif

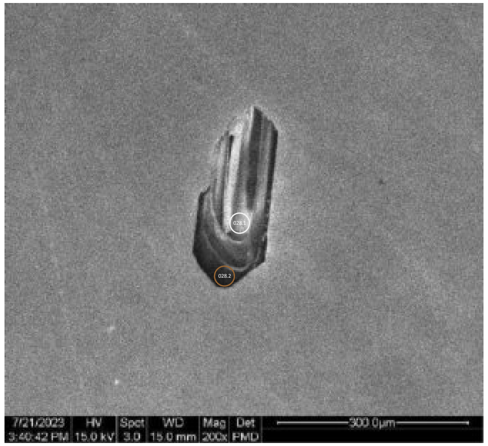
NA



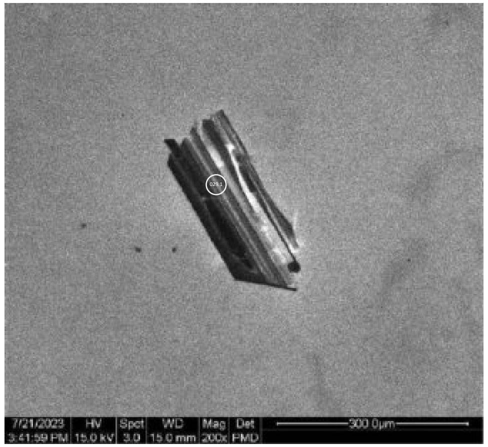
CG23CR07-
CL_027.tif



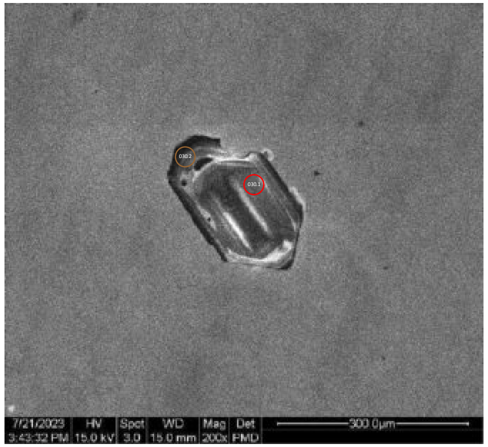
CG23CR07-
CL_028.tif



CG23CR07-
CL_029.tif

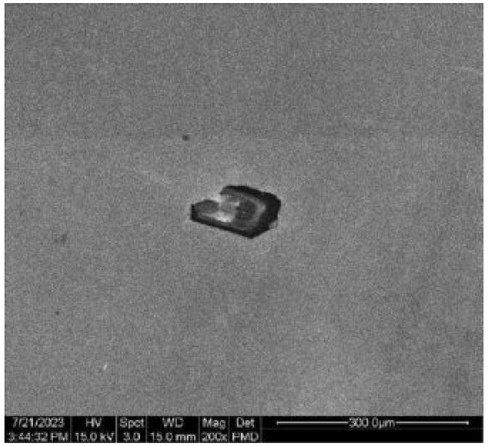


CG23CR07-
CL_030.tif

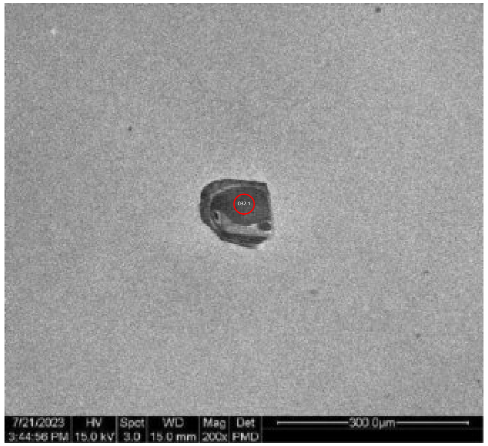


CG23CR07-
CL_031.tif

NA



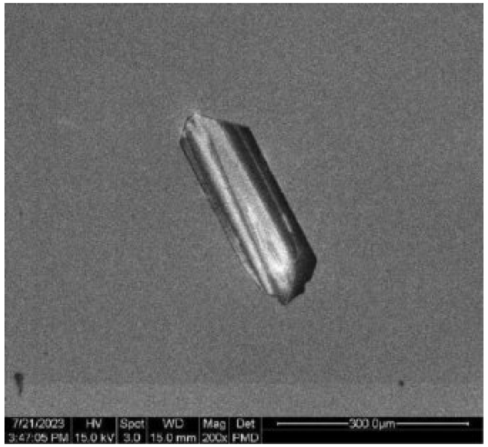
CG23CR07-
CL_032.tif



CG23CR07-
CL_033.tif

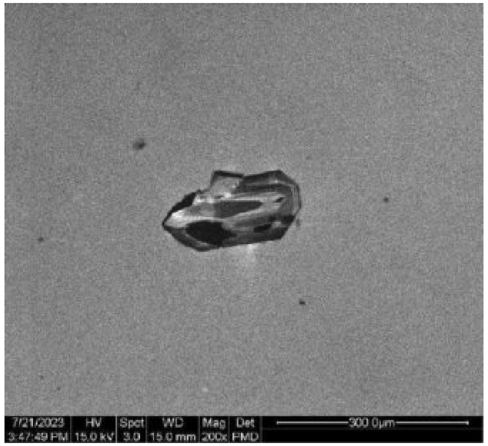
CG23CR07-
CL_034.tif

NA



CG23CR07-
CL_035.tif

NA



CG23CR07-
CL_036.tif

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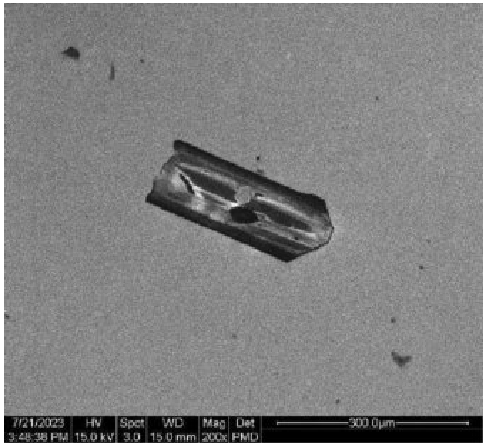
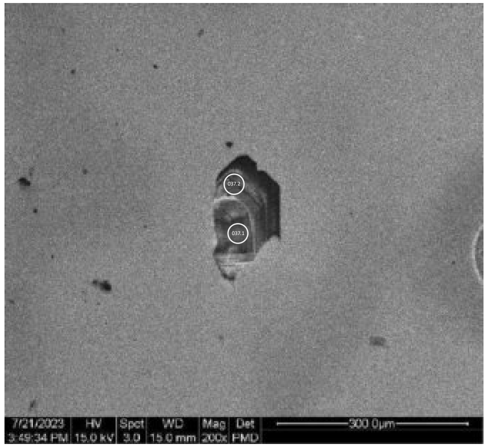
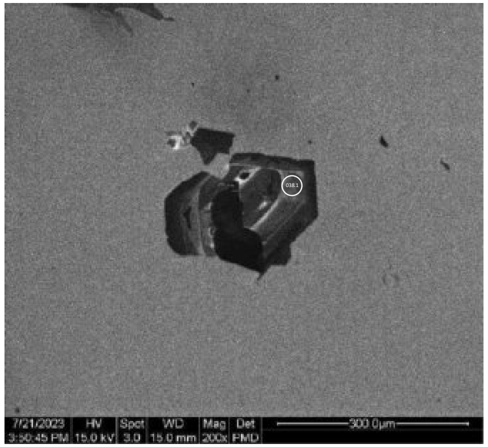


CG23CR07-
CL_037.tif

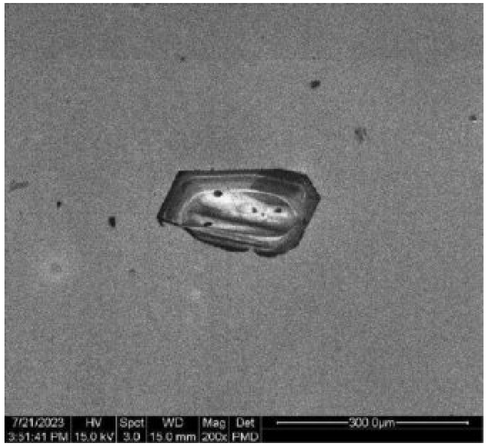


CG23CR07-
CL_038.tif

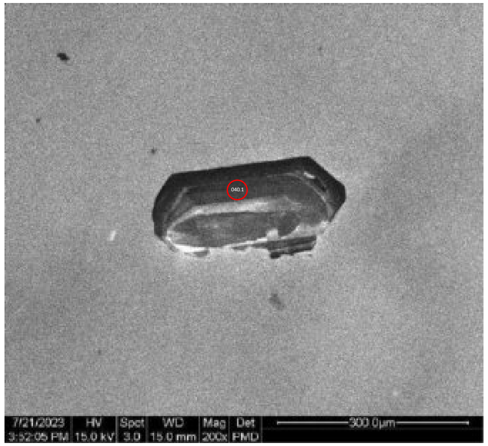


CG23CR07-
CL_039.tif

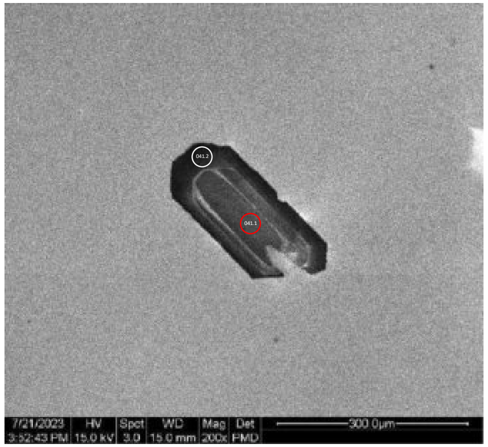
NA



CG23CR07-
CL_040.tif



CG23CR07-
CL_041.tif

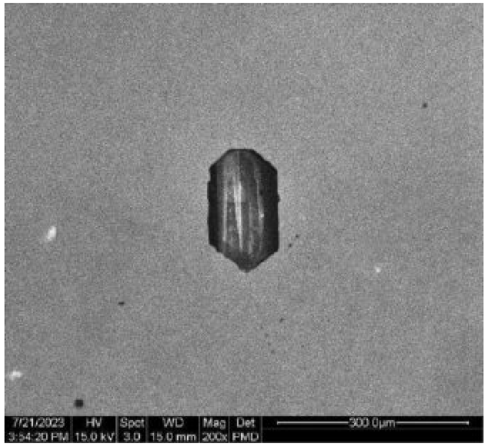


CG23CR07-
CL_042.tif

CG23CR07-
CL_043.tif

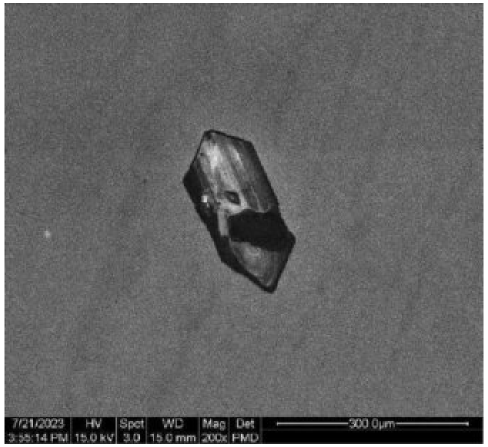
CG23CR07-
CL_044.tif

NA

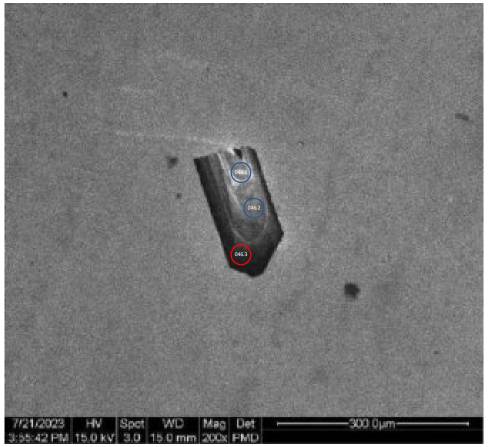


CG23CR07-
CL_045.tif

NA



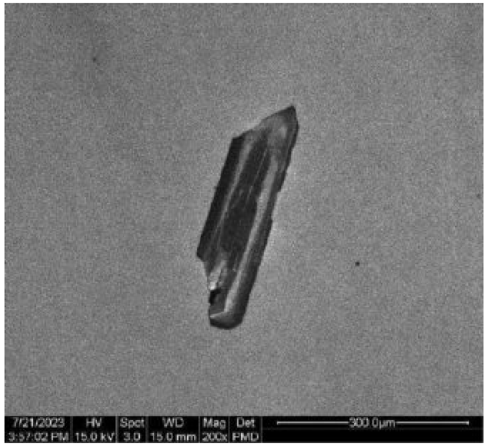
CG23CR07-
CL_046.tif



CG23CR07-
CL_047.tif

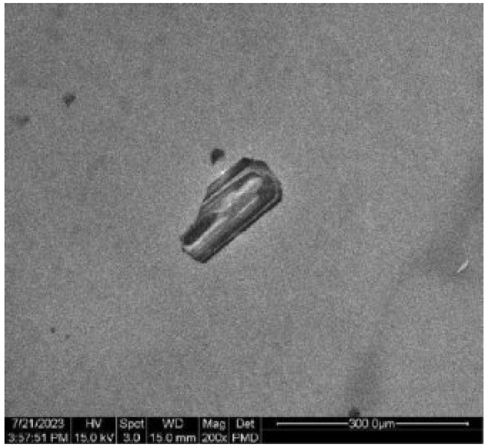
CG23CR07-
CL_048.tif

NA

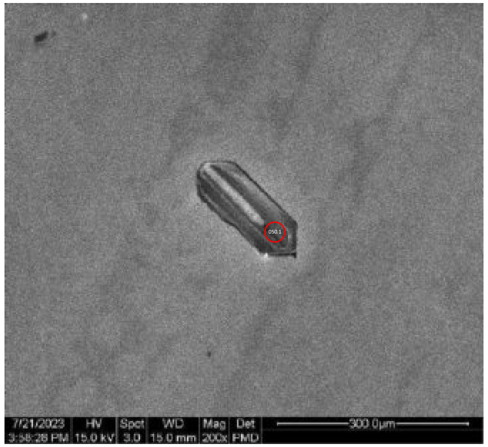


CG23CR07-
CL_049.tif

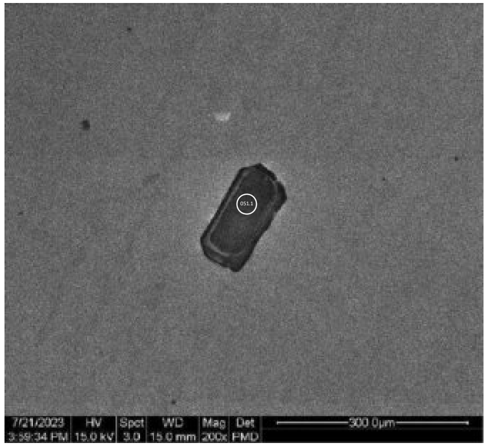
NA



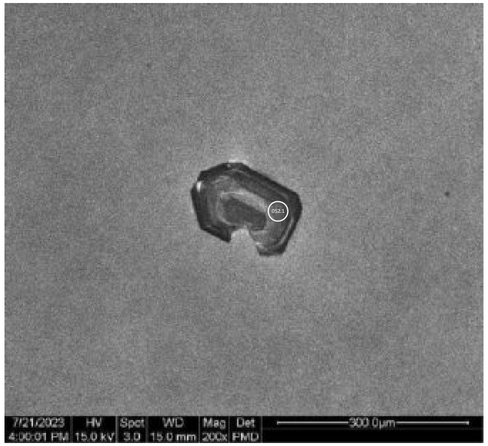
CG23CR07-
CL_050.tif



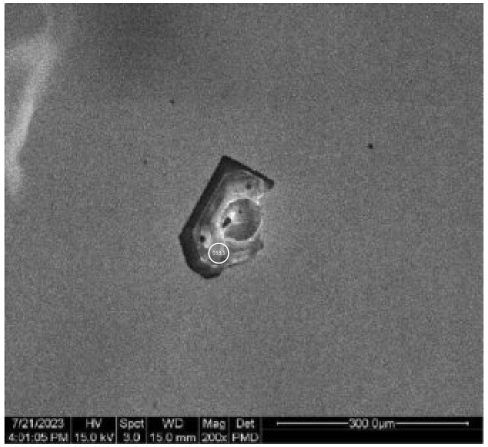
CG23CR07-
CL_051.tif



CG23CR07-
CL_052.tif



CG23CR07-
CL_053.tif



CG23CR07-
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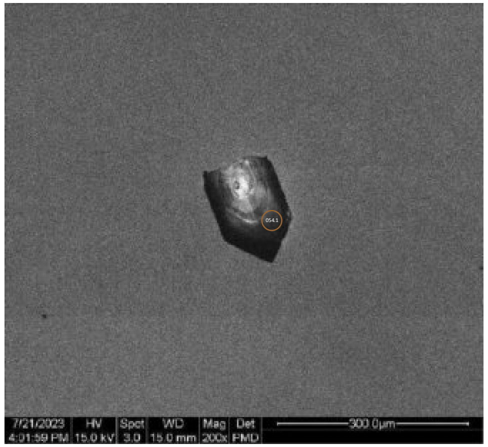

CG23CR07-
CL_055.tif

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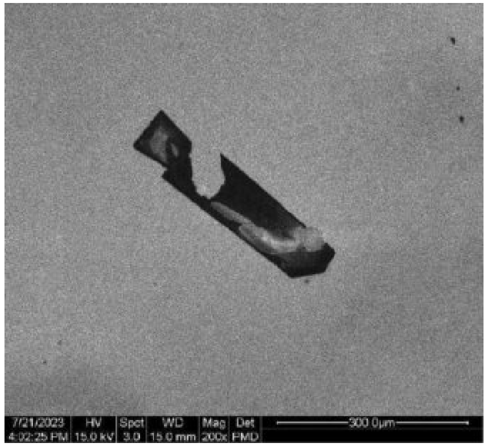

CG23CR07-
CL_056.tif

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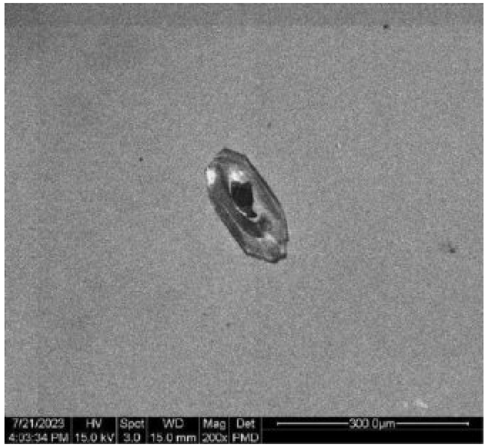
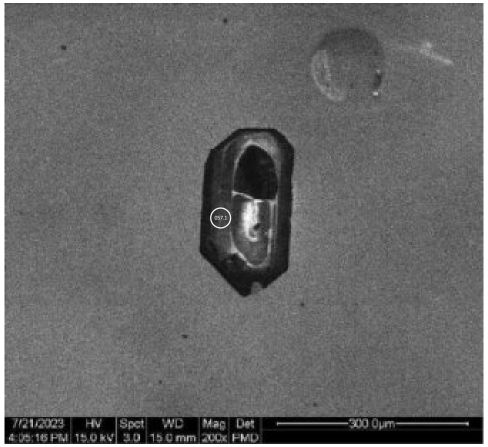
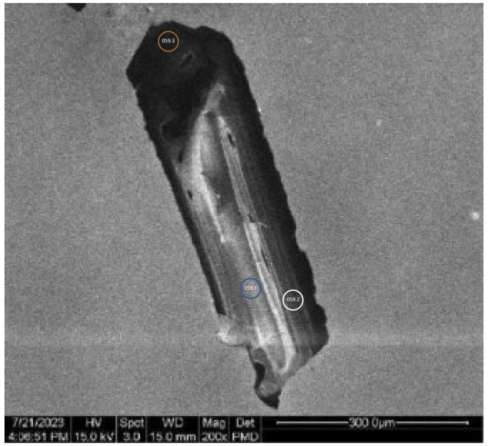


CG23CR07-
CL_057.tif

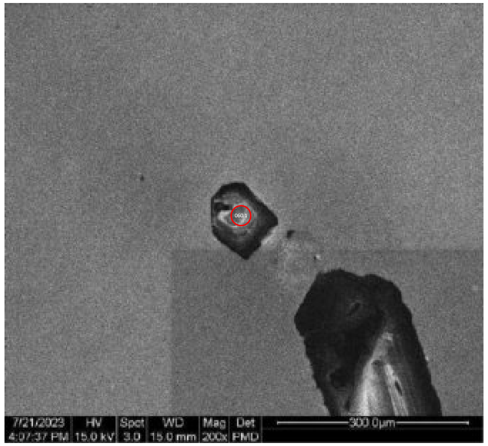


CG23CR07-
CL_058.tif

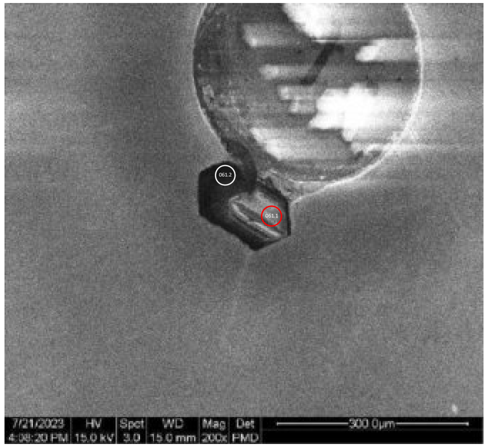
CG23CR07-
CL_059.tif



CG23CR07-
CL_060.tif



CG23CR07-
CL_061.tif

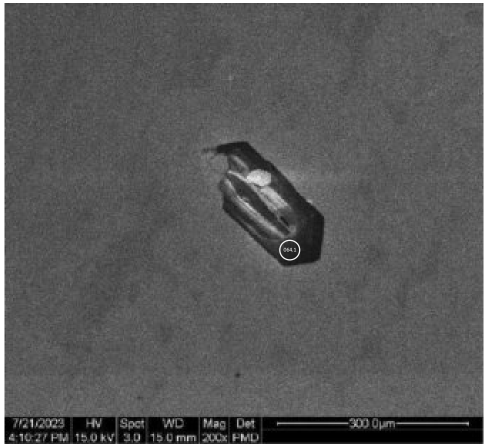


CG23CR07-
CL_062.tif

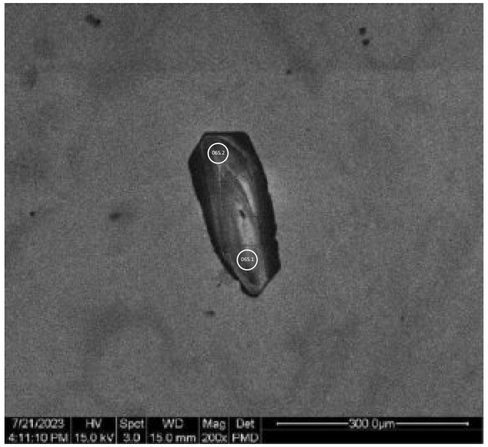
NA

CG23CR07-
CL_063.tif

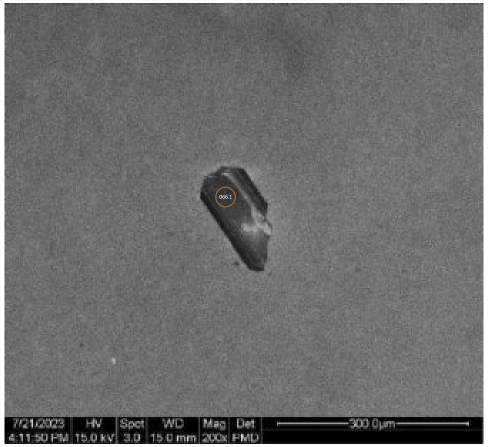
CG23CR07-
CL_064.tif



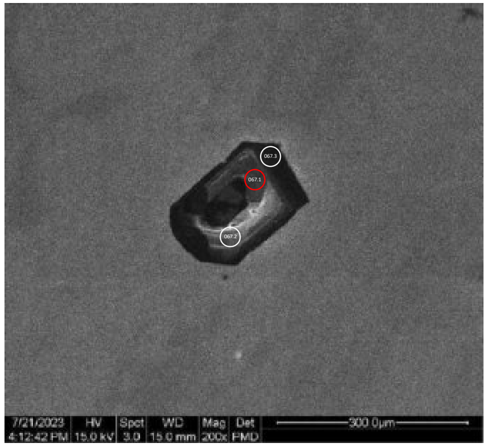
CG23CR07-
CL_065.tif



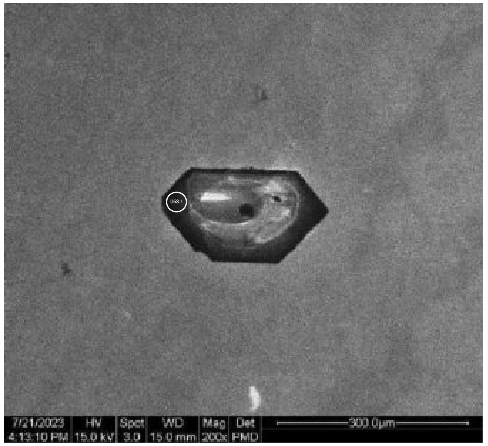
CG23CR07-
CL_066.tif



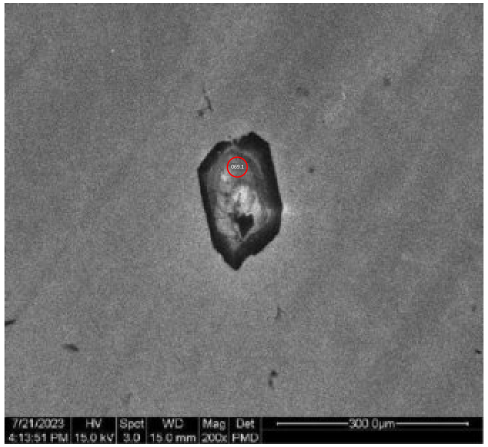
CG23CR07-
CL_067.tif



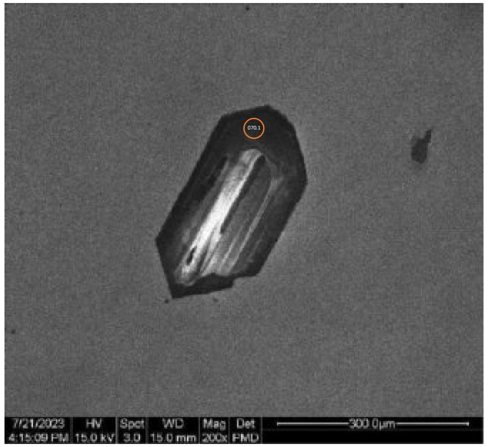
CG23CR07-
CL_068.tif



CG23CR07-
CL_069.tif

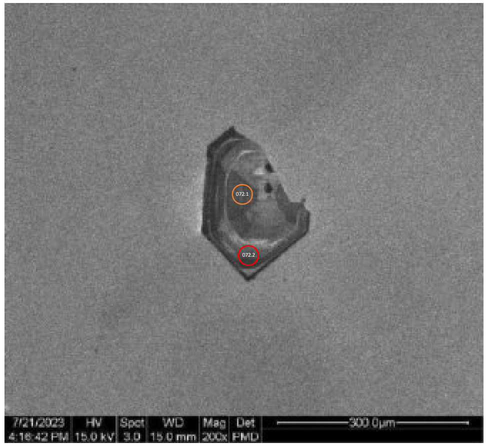


CG23CR07-
CL_070.tif



CG23CR07-
CL_071.tif

CG23CR07-
CL_072.tif



CG23CR07-
CL_073.tif

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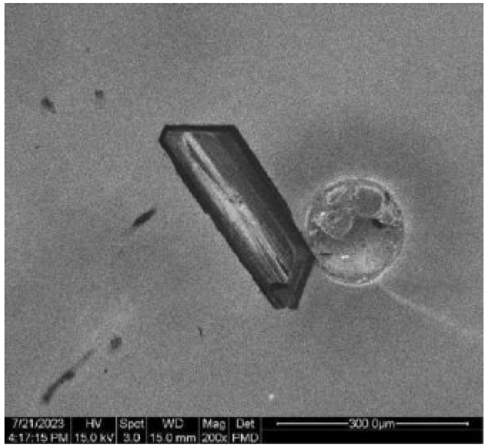

CG23CR07-
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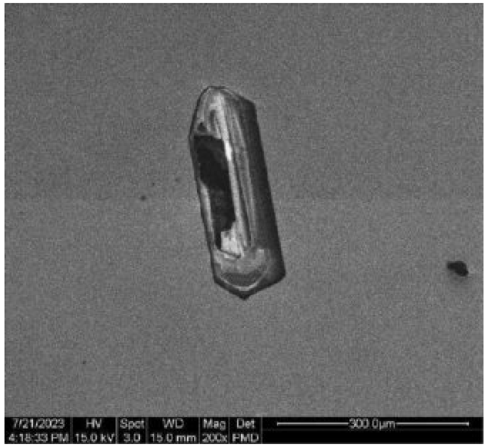

CG23CR07-
CL_075.tif

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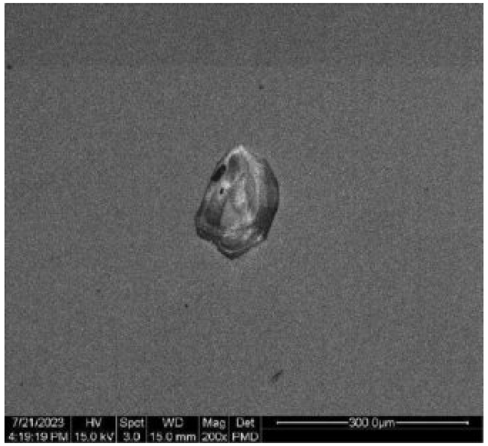
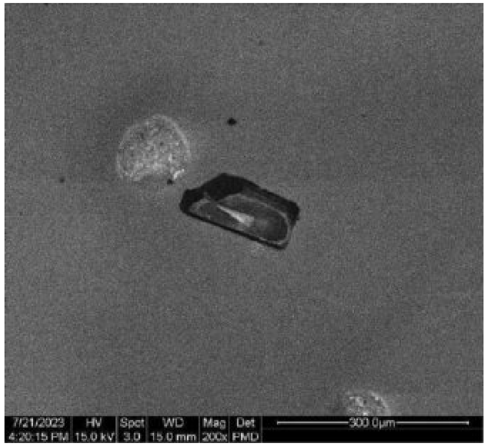


CG23CR07-
CL_076.tif

NA



CG23CR07-
CL_077.tif

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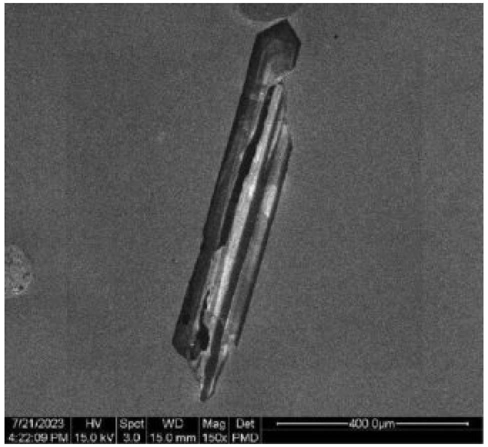
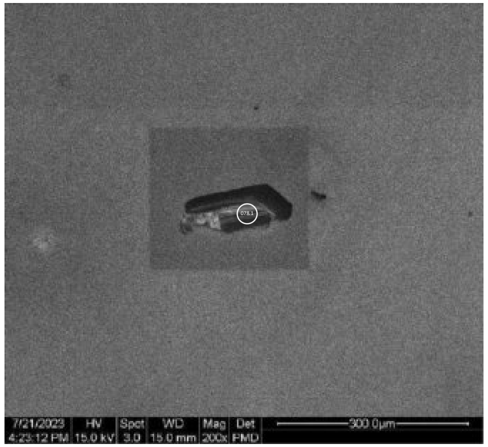
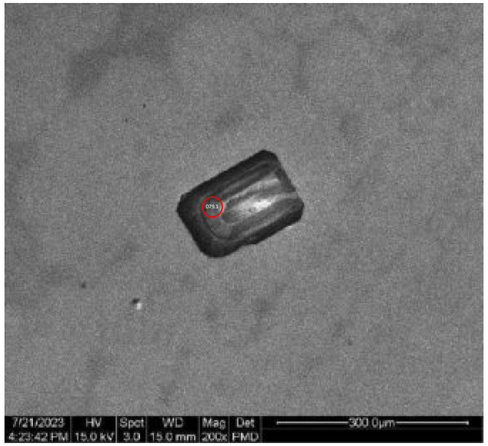


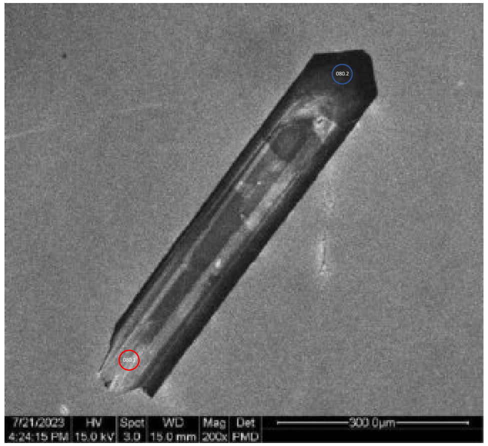
CG23CR07-
CL_078.tif



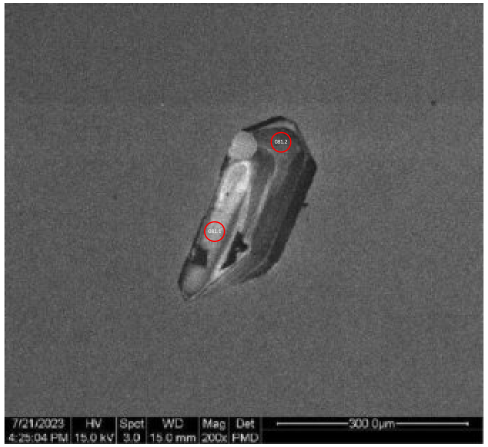
CG23CR07-
CL_079.tif



CG23CR07-
CL_080.tif



CG23CR07-
CL_081.tif



CG23CR07-
CL_082.tif

CG23CR07-
CL_083.tif

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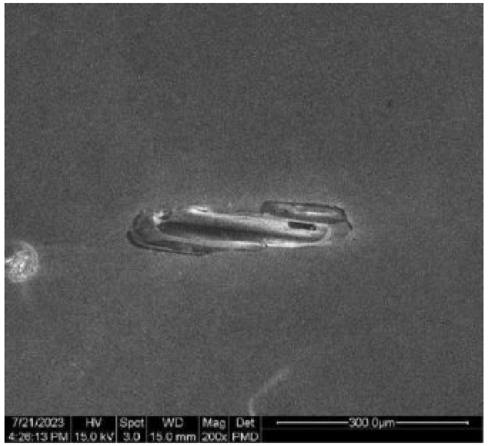
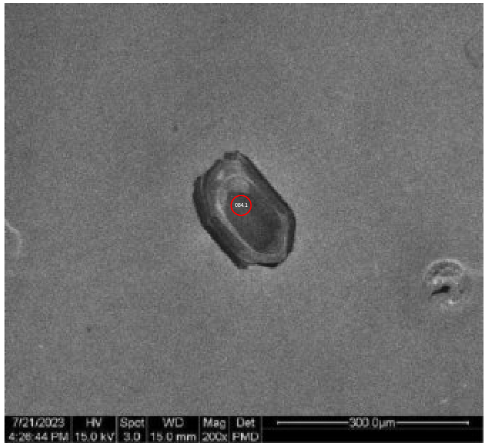
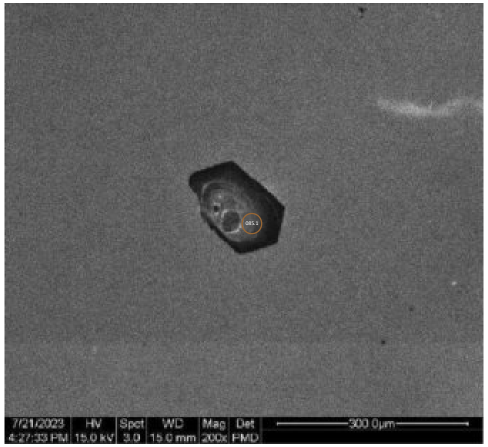


CG23CR07-
CL_084.tif



CG23CR07-
CL_085.tif



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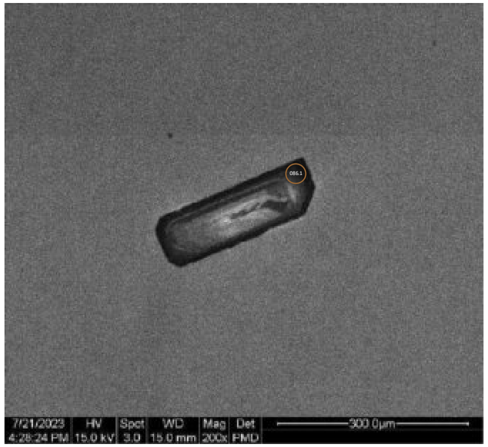

CG23CR07-
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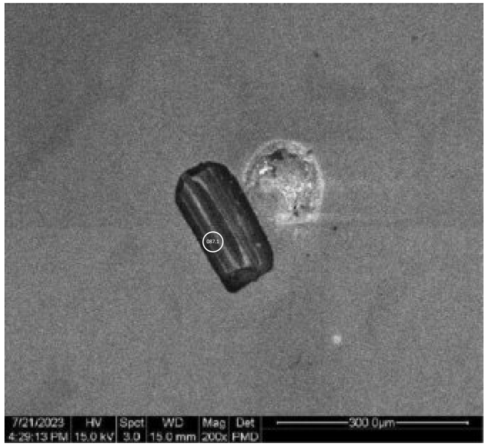
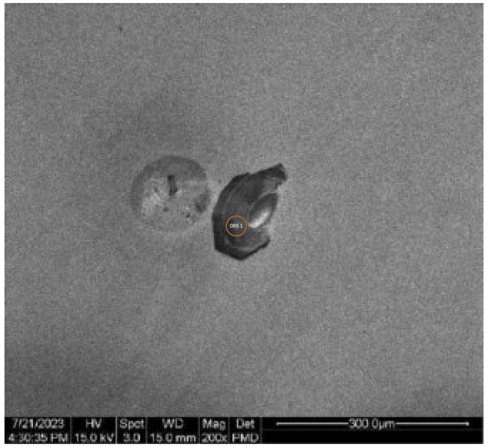


CG23CR07-
CL_088.tif

CG23CR07-
CL_089.tif



CG23CR07-
CL_090.tif

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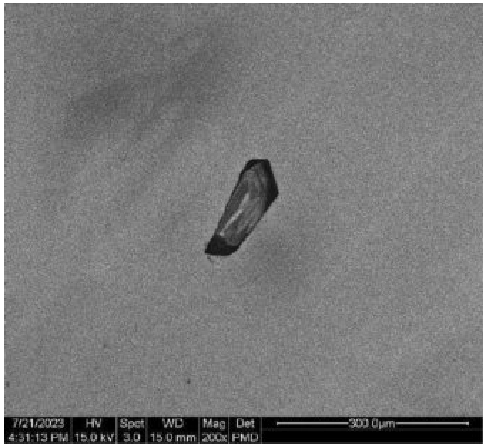
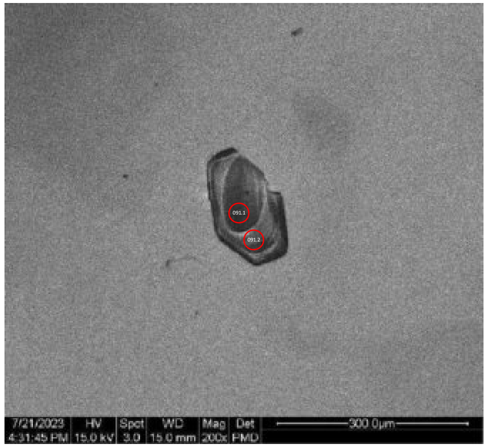
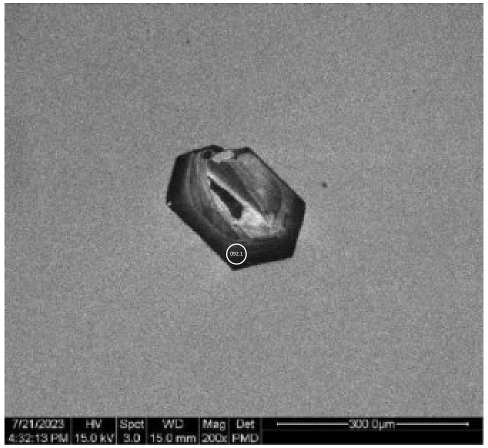


CG23CR07-
CL_091.tif



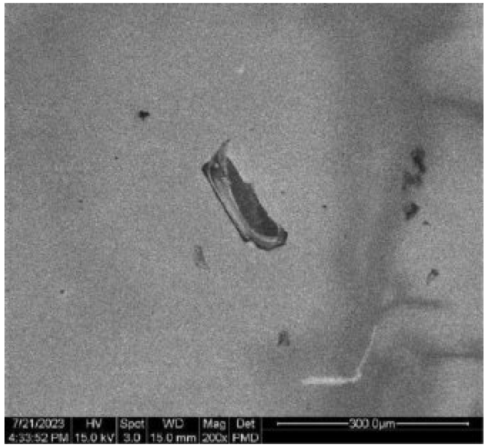
CG23CR07-
CL_092.tif



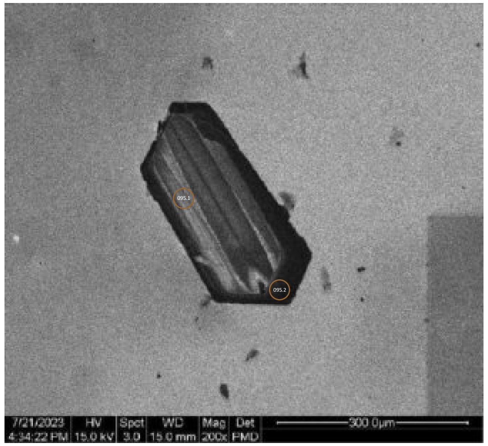
CG23CR07-
CL_093.tif

CG23CR07-
CL_094.tif

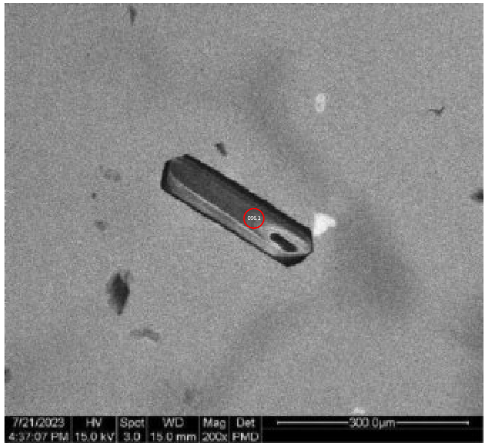
NA



CG23CR07-
CL_095.tif

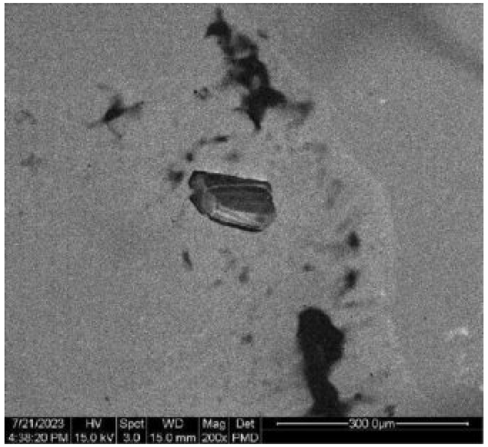


CG23CR07-
CL_096.tif

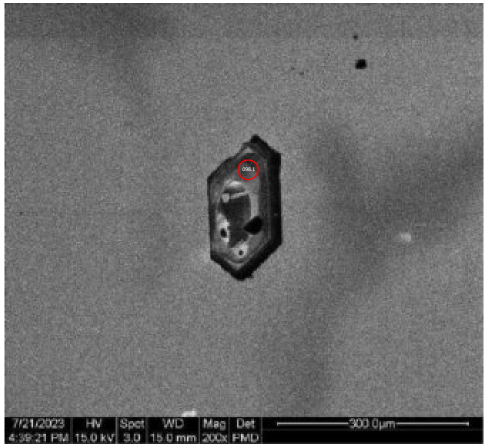


CG23CR07-
CL_097.tif

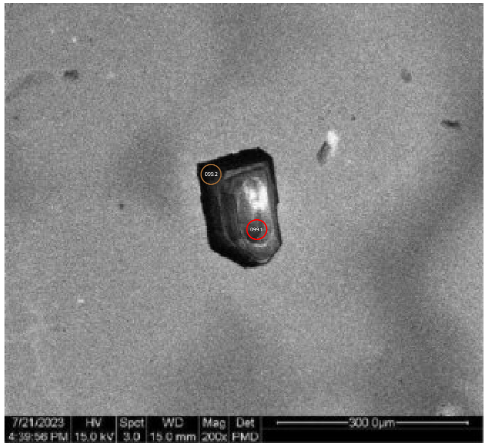
NA



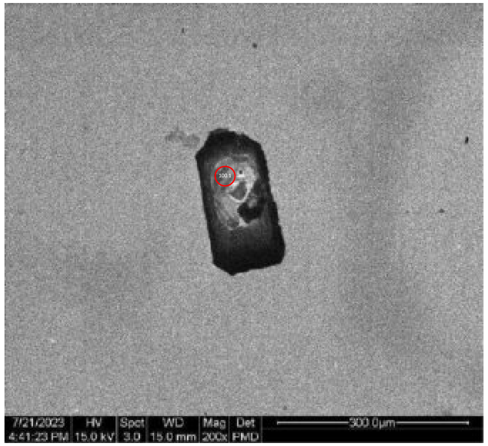
CG23CR07-
CL_098.tif



CG23CR07-
CL_099.tif

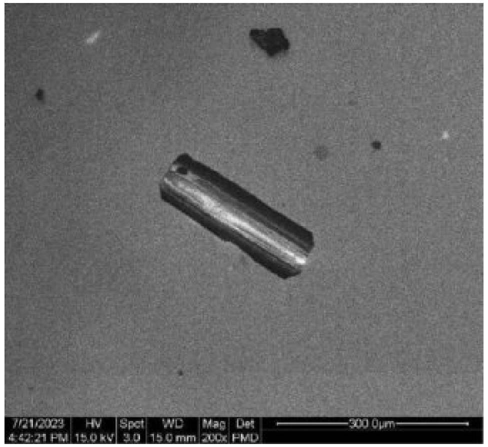


CG23CR07-
CL_100.tif



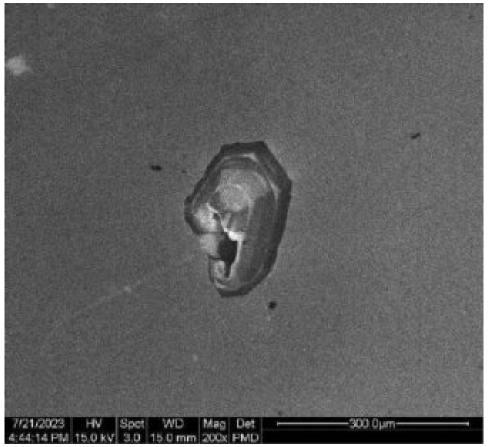
CG23CR07-
CL_101.tif

NA



CG23CR07-
CL_102.tif

NA



Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Discordant points

Emplacement zircons (i.e., zircons included in emplacement age calculation)

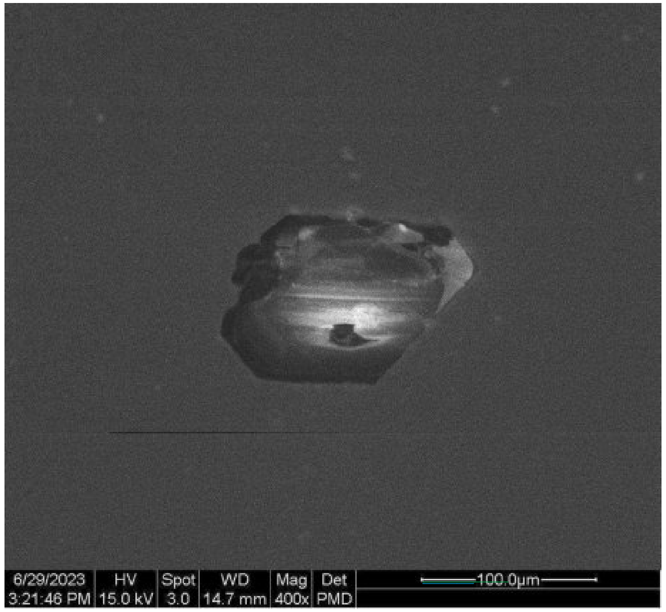
Potential trace elements for future analysis

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

Xenocrystic zircons (i.e., grains with spots > 425 Ma)

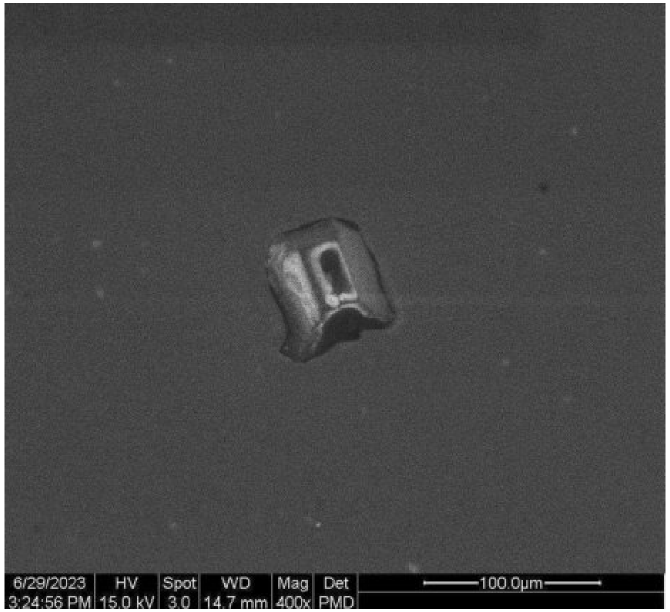
CG23CR08-
CL_001.tif

No analysis. Grain too small/fractured.



CG23CR08-
CL_002.tif

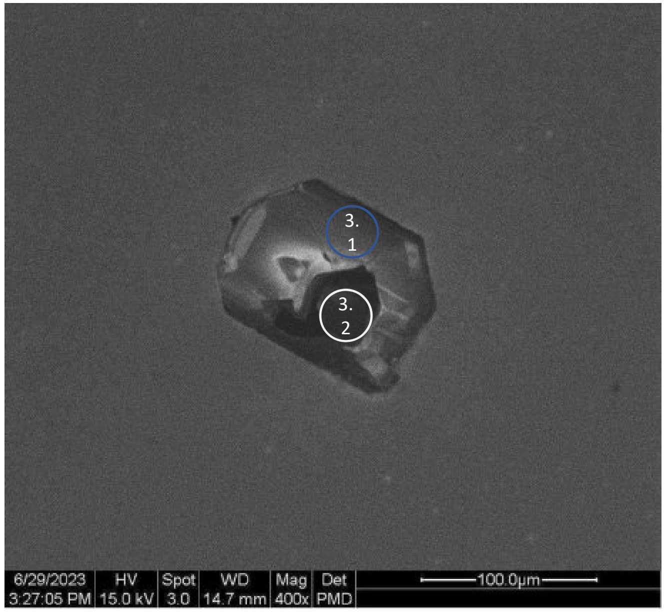
No analysis.
Grain too
small/fractured.



CG23CR08-
CL_003.tif

2x U-Pb

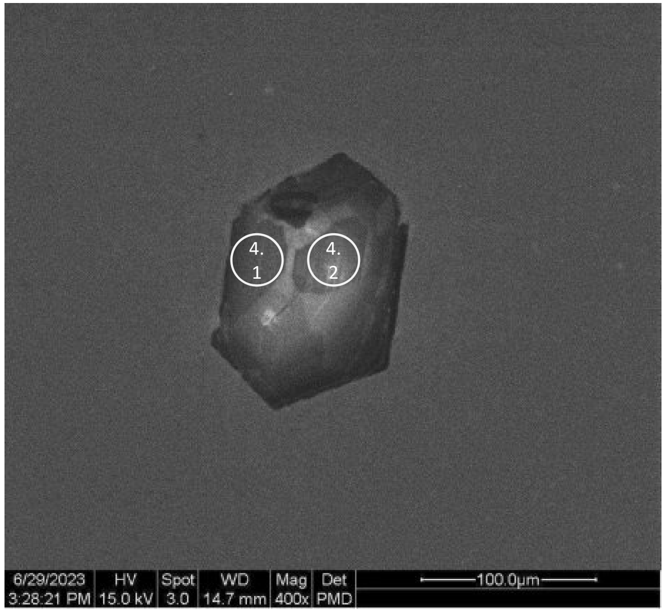
3.1, 3.2



CG23CR08-
CL_004.tif

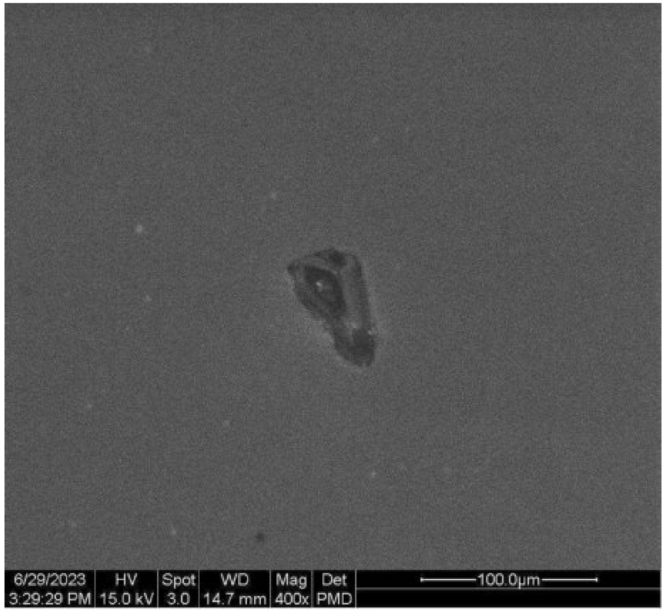
2x U-Pb

4.1, 4.2



CG23CR08-
CL_005.tif

No analysis.
Grain too
small/fractured.



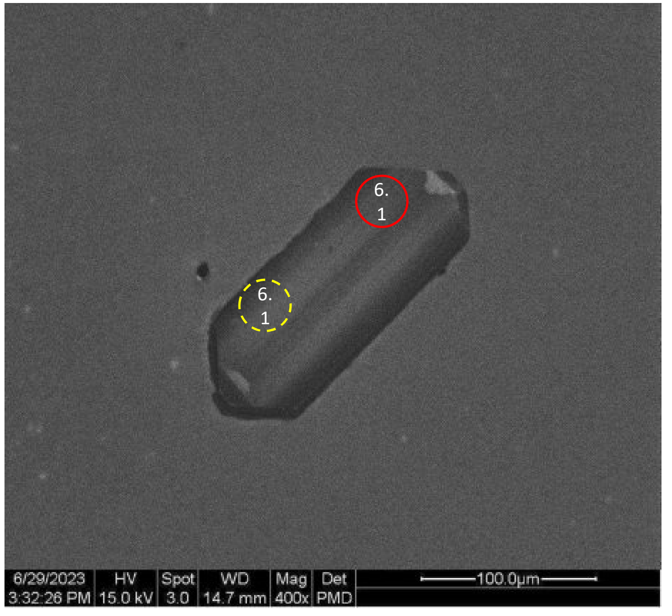
CG23CR08-
CL_006.tif

1x U-Pb

6.1

1x TE

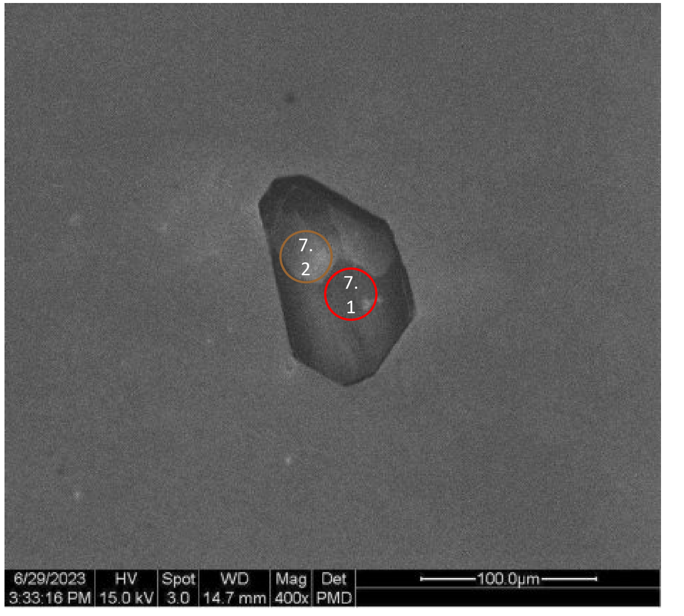
6.1



CG23CR08-
CL_007.tif

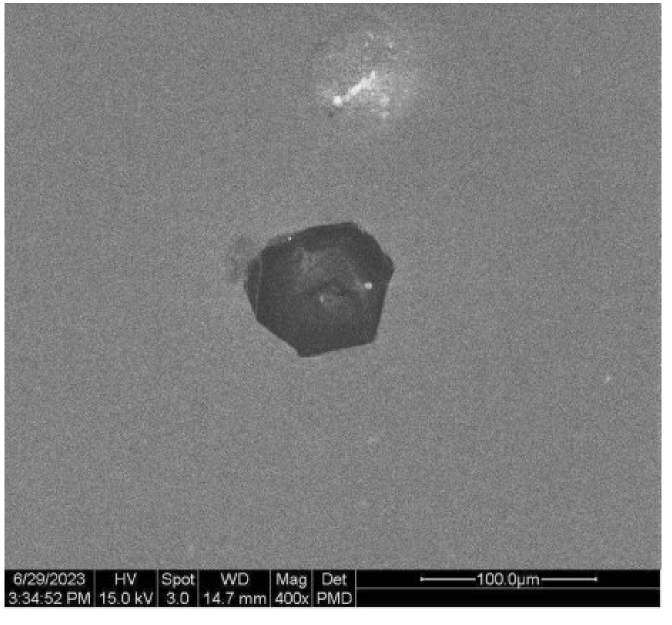
2x U-Pb

7.1, 7.2



CG23CR08-
CL_008.tif

No analysis. Grain
too small/fractured.



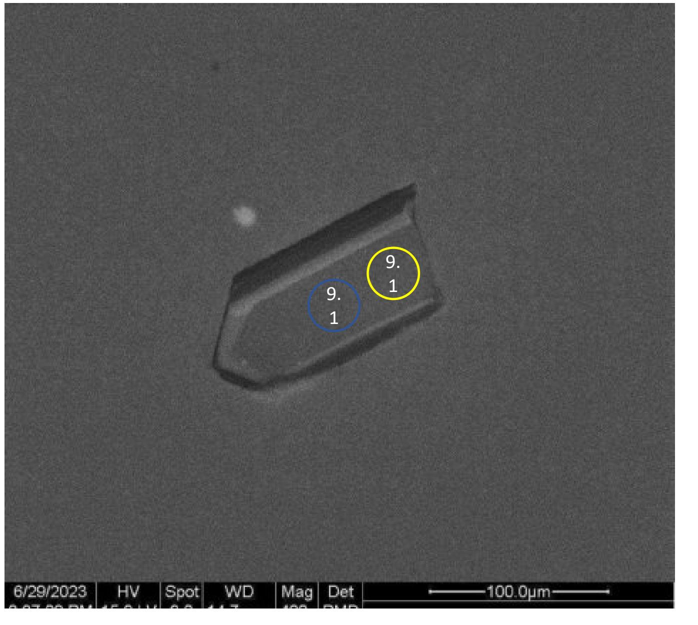
CG23CR08-
CL_009.tif

1x U-Pb

9.1

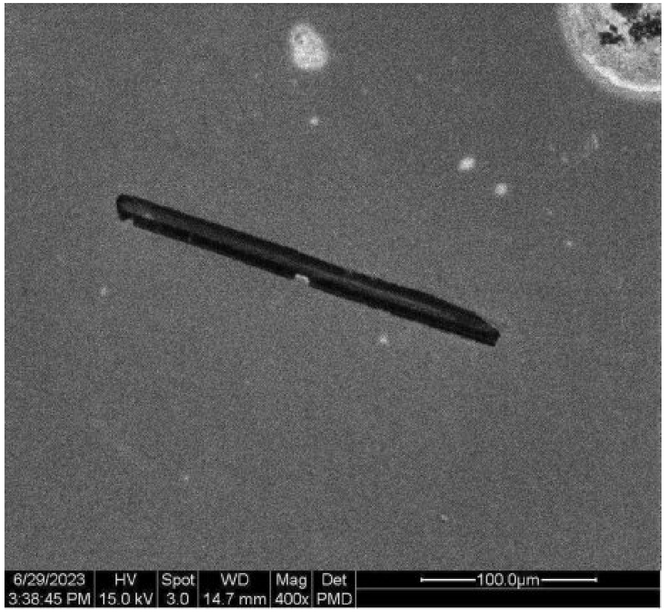
1x TE

9.1



CG23CR08-
CL_010.tif

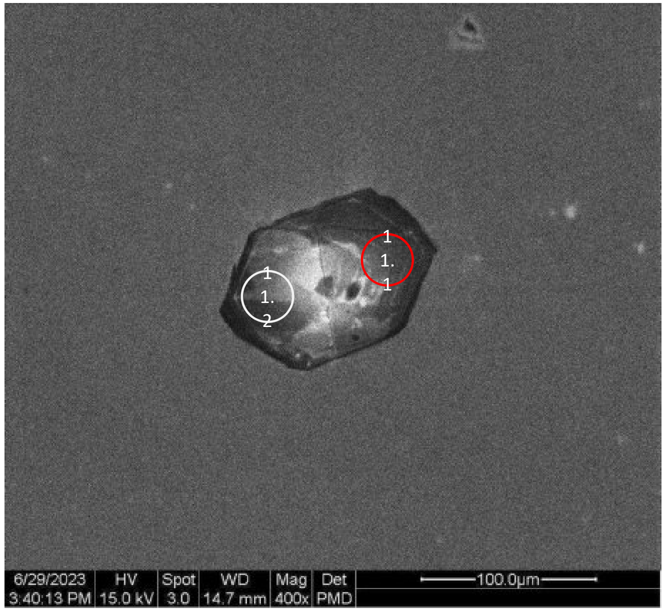
No analysis.
Grain too
small/fractured.



CG23CR08-
CL_011.tif

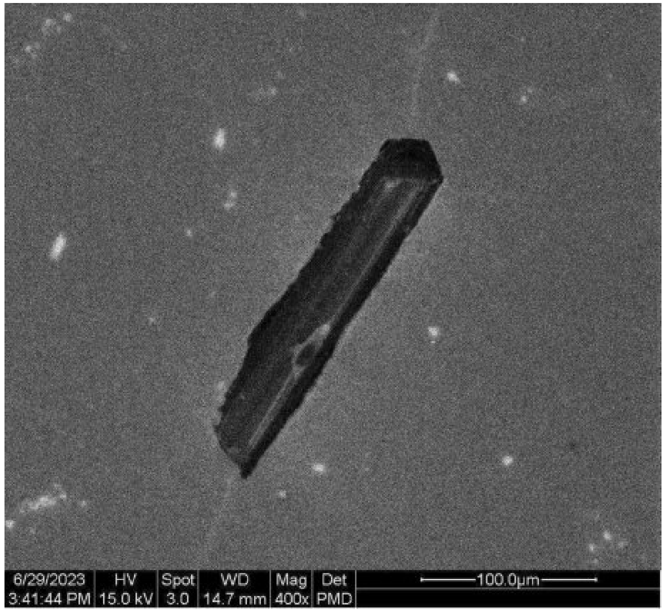
2x U-Pb

11.1, 11.2



CG23CR08-
CL_012.tif

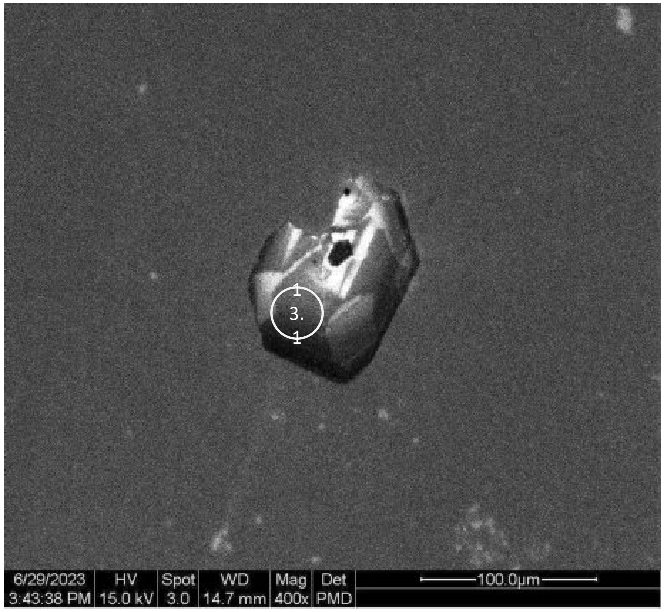
No analysis.
Grain too
small/fractured.



CG23CR08-
CL_013.tif

1x U-Pb

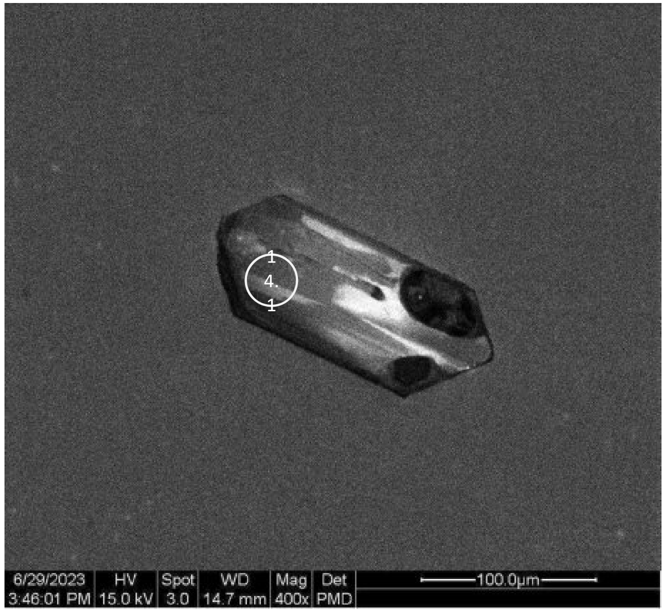
13.1



CG23CR08-
CL_014.tif

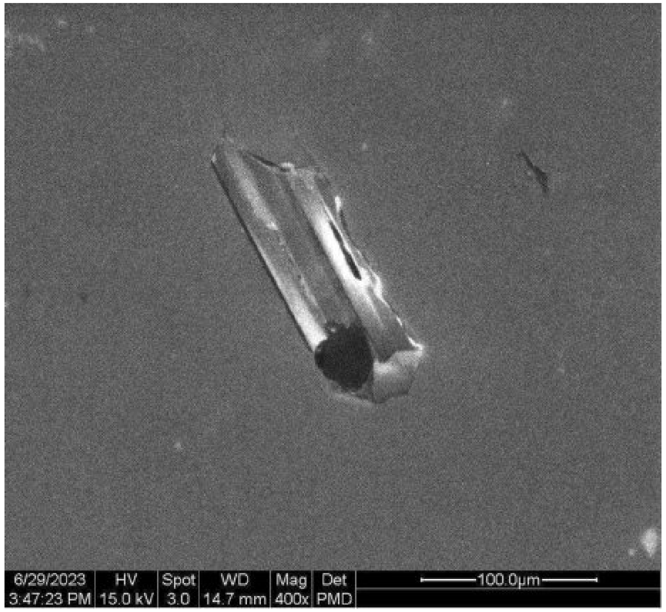
1x U-Pb

14.1



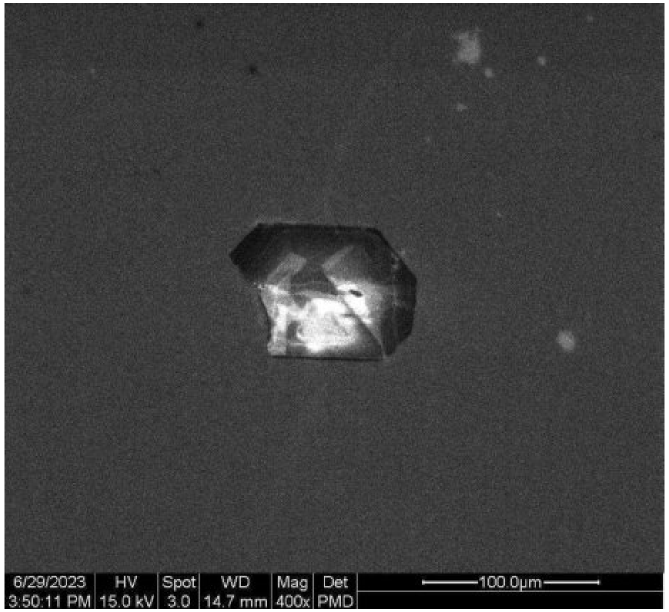
CG23CR08-
CL_015.tif

No analysis.
Grain too
small/fractured.



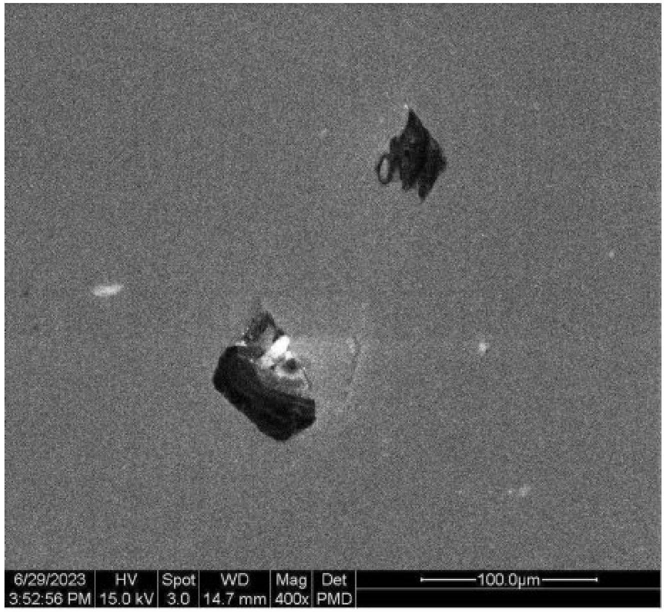
CG23CR08-
CL_016.tif

No analysis.
Grain too
small/fractured.
Unsure if that is
sector zoning or
alteration?



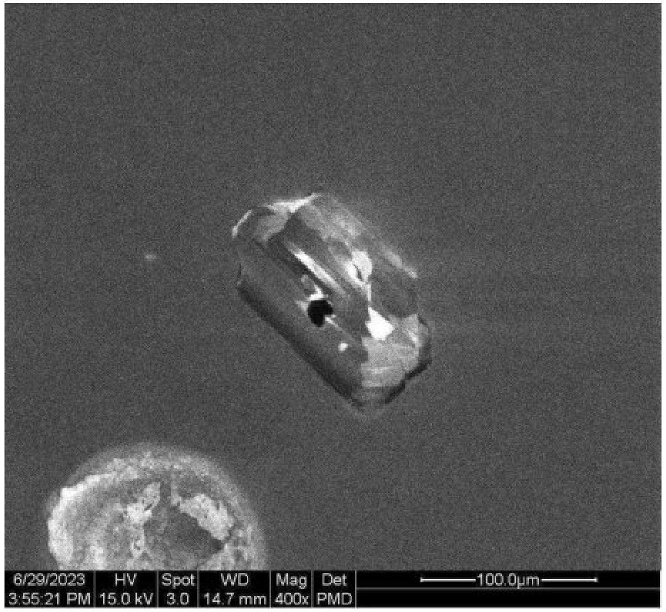
CG23CR08-
CL_017.tif

No analysis.
Grain too
small/fractured.



CG23CR08-CL_018.tif

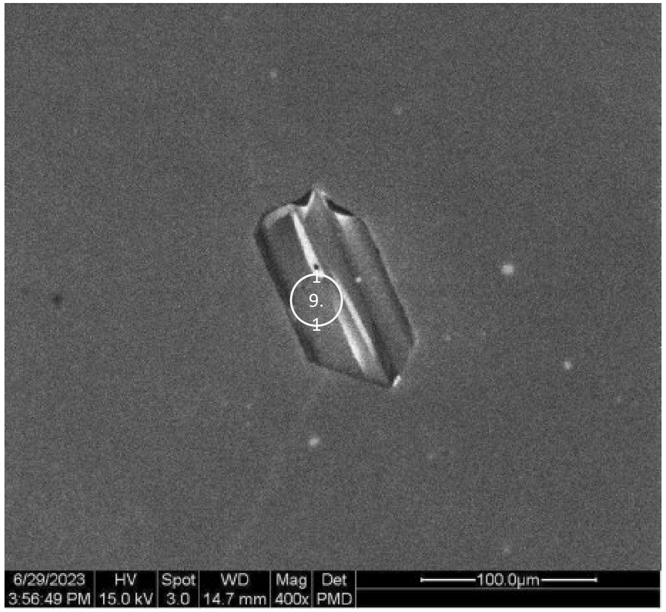
No analysis. Grain too small/fractured/altered/indistinguishable zones.



CG23CR08-CL_019.tif

1x U-Pb

19.1



CG23CR08-CL_020.tif

1x U-Pb

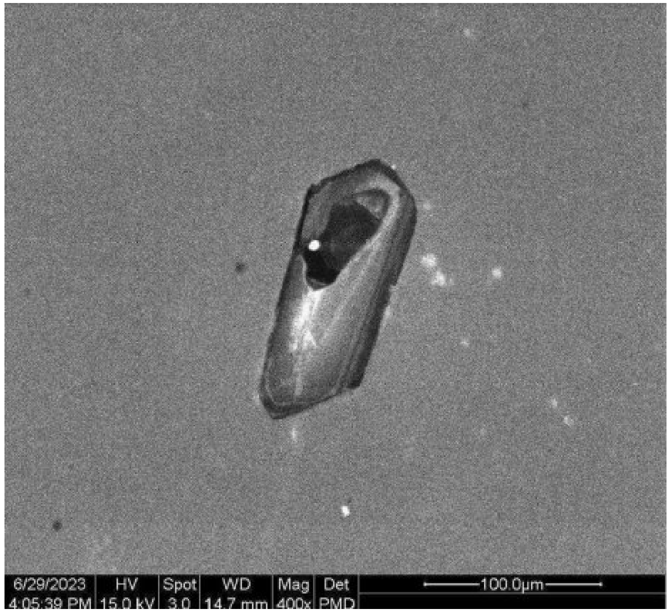
20.1

1x TE

20.1

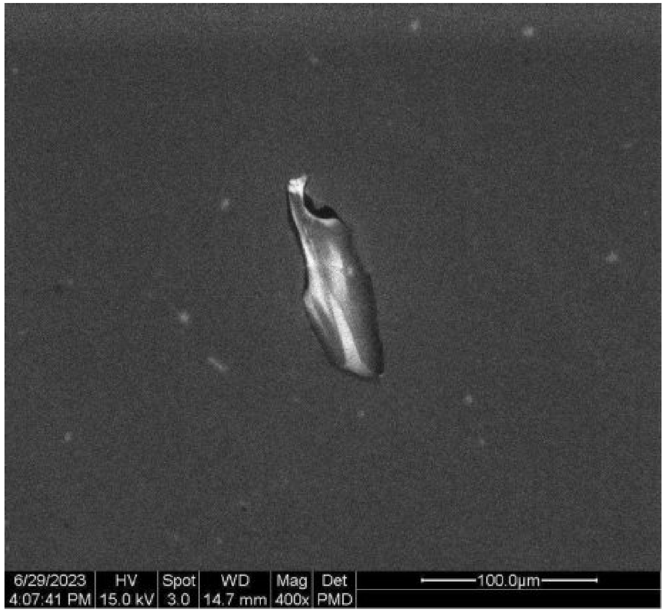
CG23CR08-CL_021.tif

No analysis. Grain too small/fractured/altered/inclusions/zones too narrow.



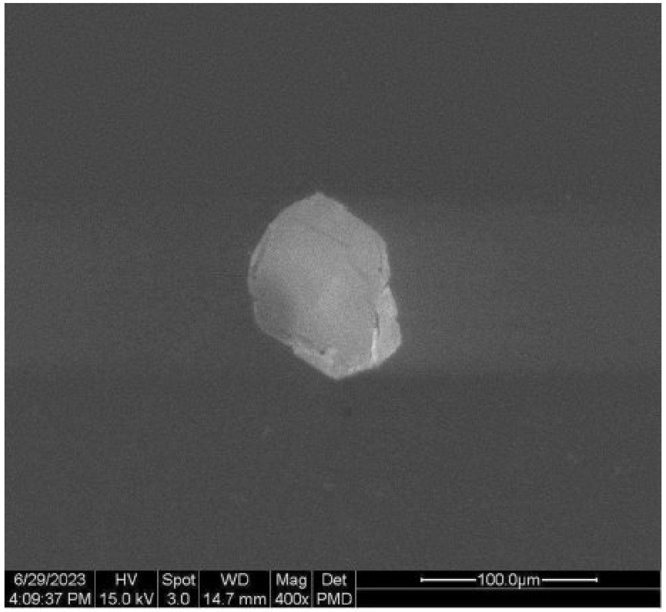
CG23CR08-
CL_022.tif

No analysis.
Grain too
small/fractured/
altered/inclusio
ns/zones too
narrow.



CG23CR08-
CL_023.tif

No analysis.
Unsure if it is a
zircon?



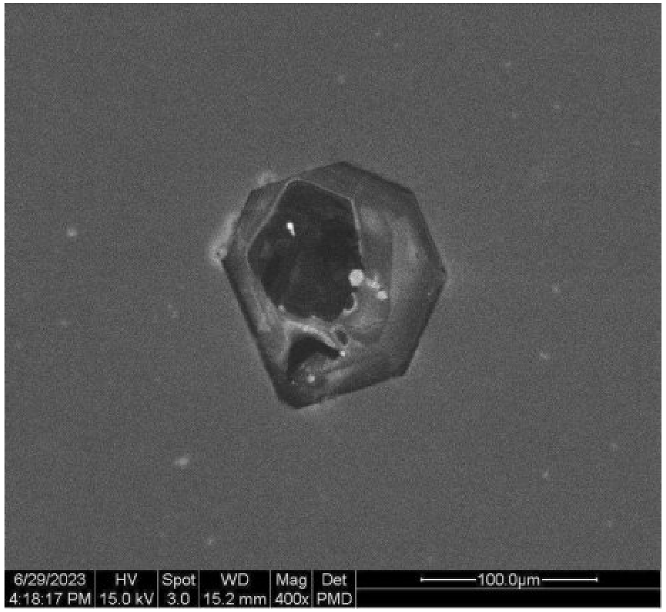
CG23CR08-
CL_024.tif

1x U-Pb

24.1

CG23CR08-
CL_025.tif

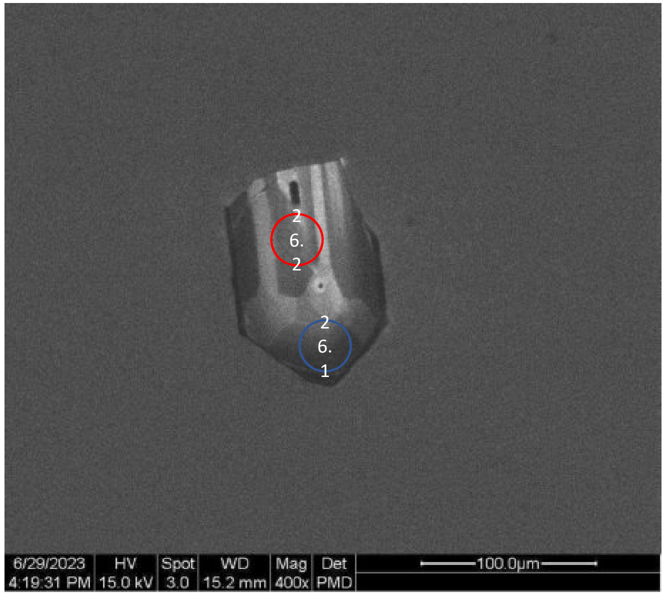
No analysis.
Zones too
small/too
fractured/too
altered (unless
that central
portion is an
inclusion?)



CG23CR08-CL_026.tif

2x U-Pb

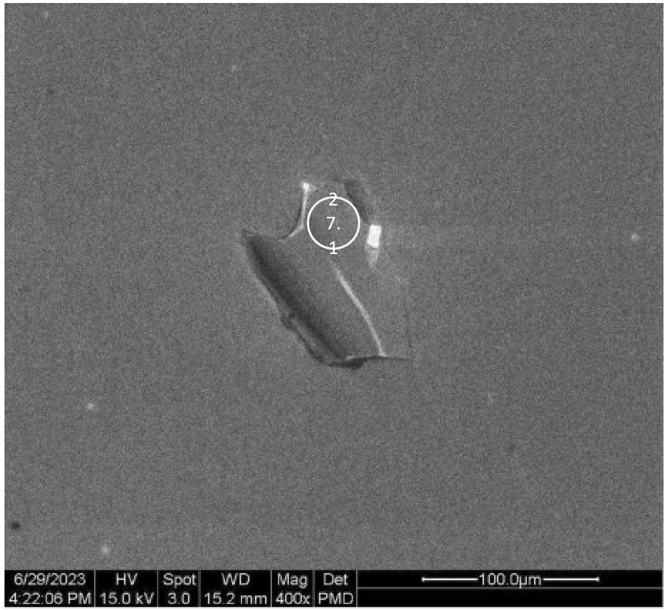
26.1, 26.2



CG23CR08-CL_027.tif

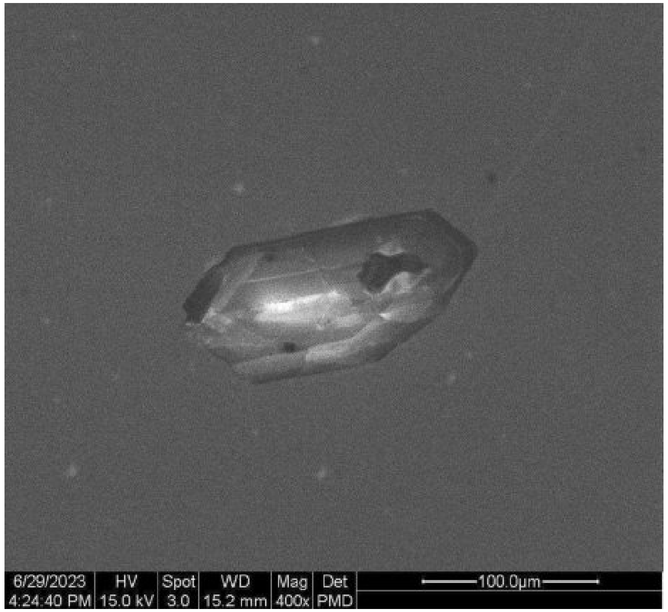
1x U-Pb

27.1



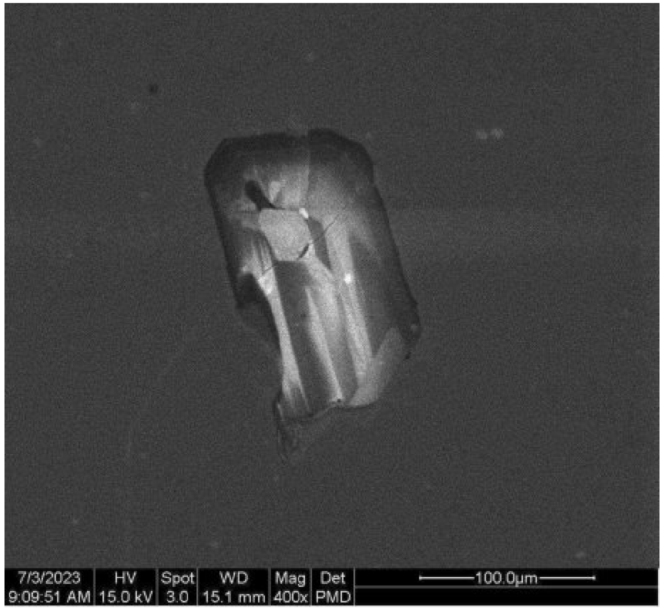
CG23CR08-CL_028.tif

No analysis. Too fractured.



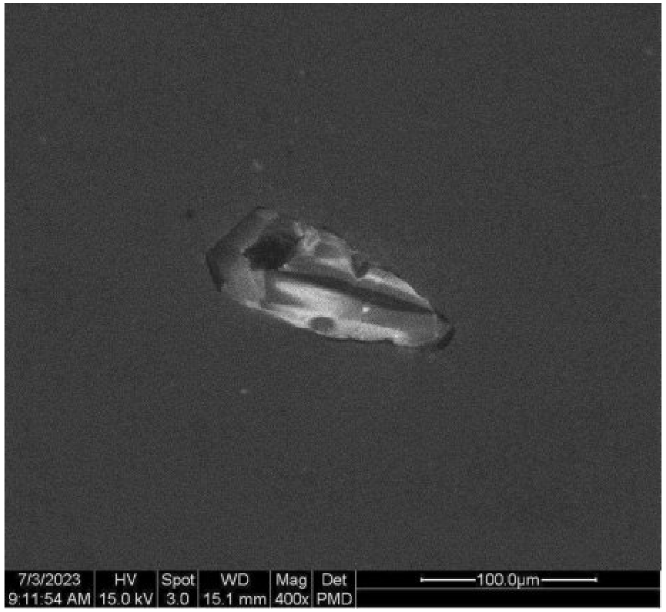
CG23CR08-CL_029.tif

No analysis. Too fractured/indistinguishable zones/zones too small.



CG23CR08-
CL_030.tif

No analysis. Too fractured/indistinguishable zones/zones too small.



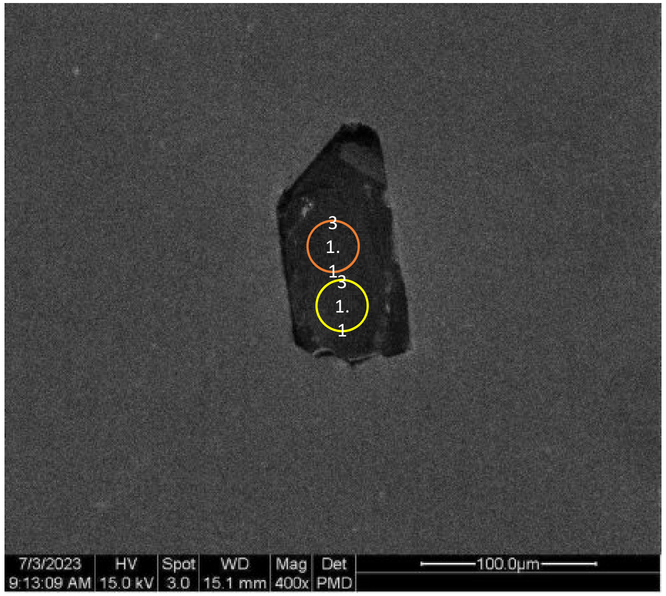
CG23CR08-
CL_031.tif

1x U-Pb

31.1

1x TE

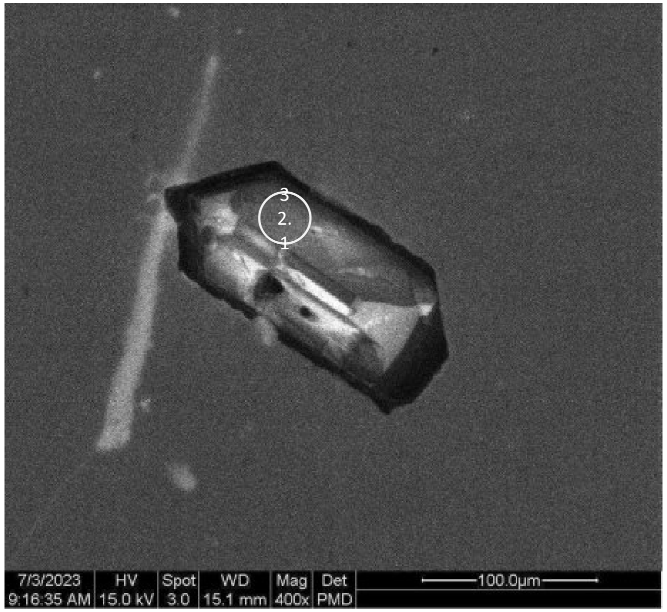
31.1



CG23CR08-
CL_032.tif

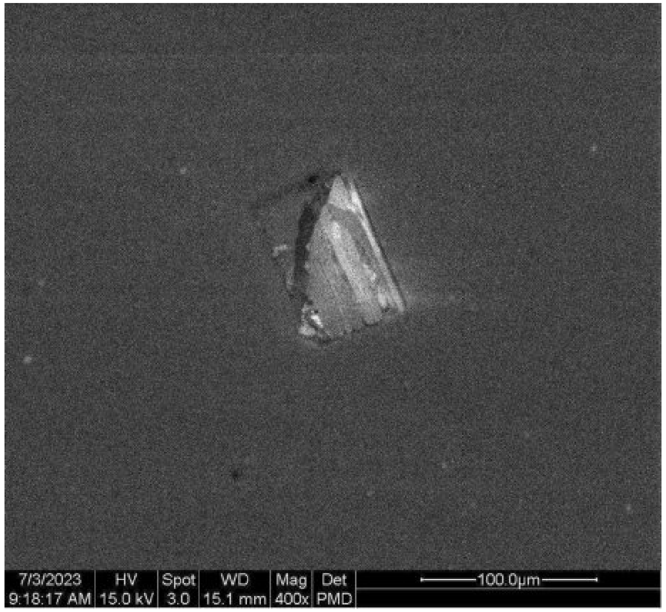
1x U-Pb

32.1



CG23CR08-
CL_033.tif

No analysis. Too fractures, apatite??



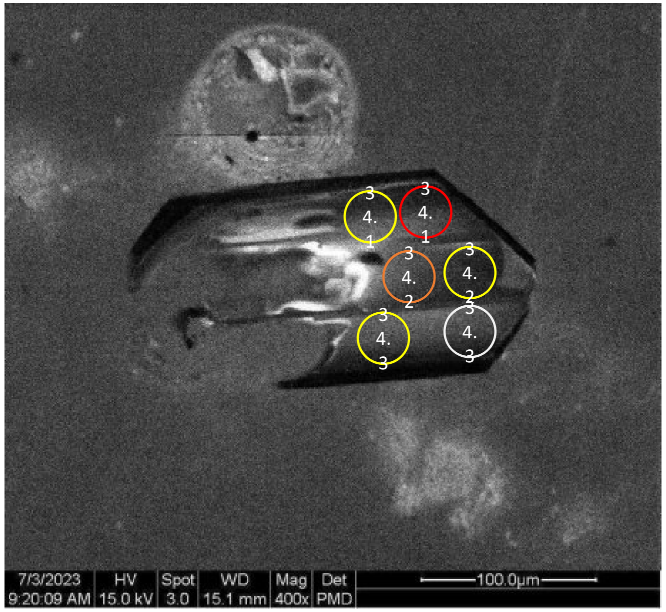
CG23CR08-CL_034.tif

3x U-Pb

34.1, 34.2, 34.3

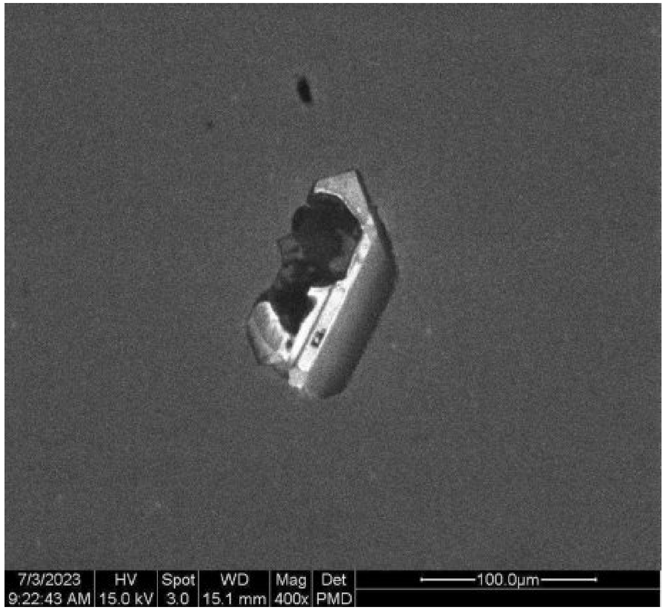
3x TE

34.1, 34.2, 34.3



CG23CR08-CL_035.tif

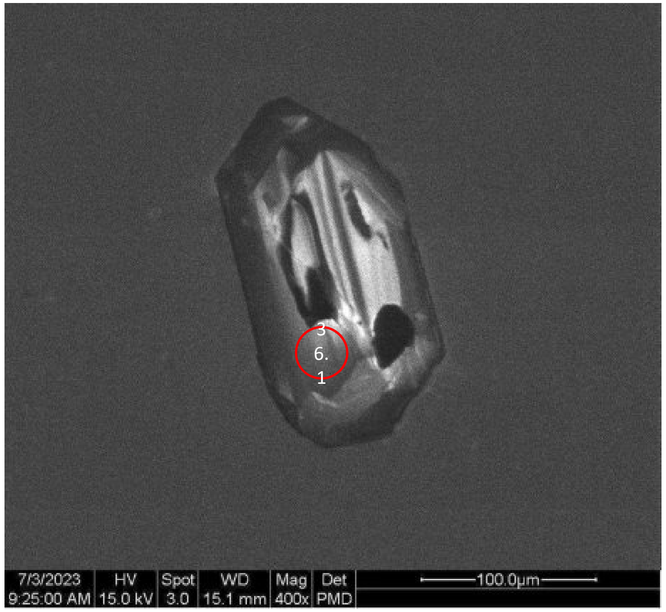
No analysis. Too fractured/indistinguishable zones/altered/zones too small.



CG23CR08-CL_036.tif

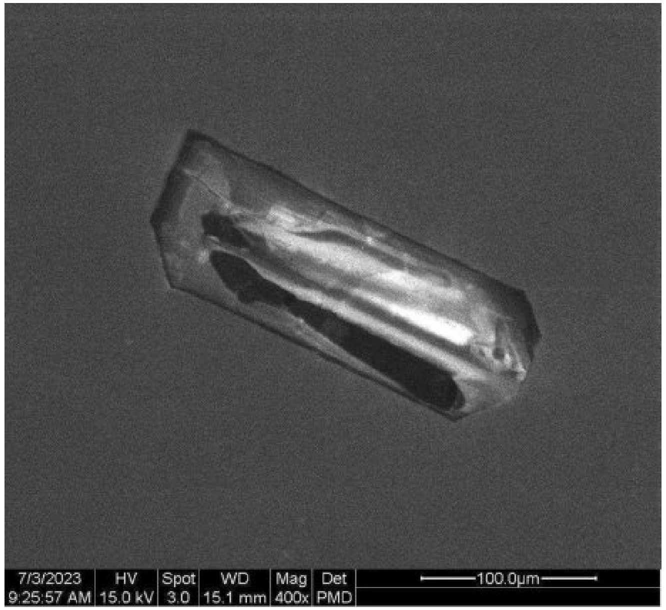
1x U-Pb

36.1



CG23CR08-CL_037.tif

No analysis. Too fractured/indistinguishable zones/altered/zones too small.



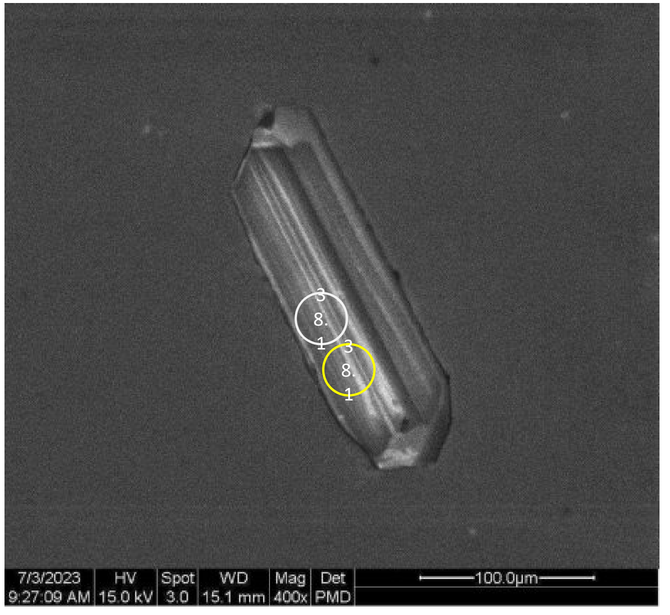
CG23CR08-CL_038.tif

1x U-Pb

38.1

1x TE

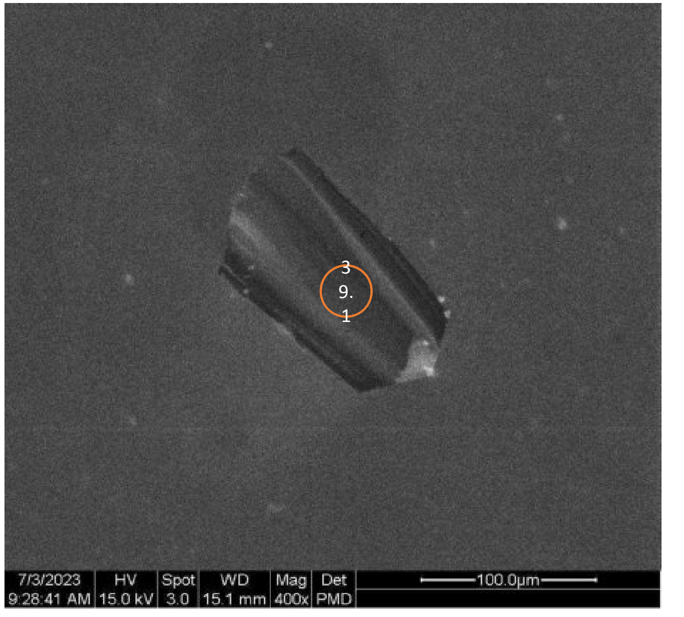
38.1



CG23CR08-CL_039.tif

1x U-Pb

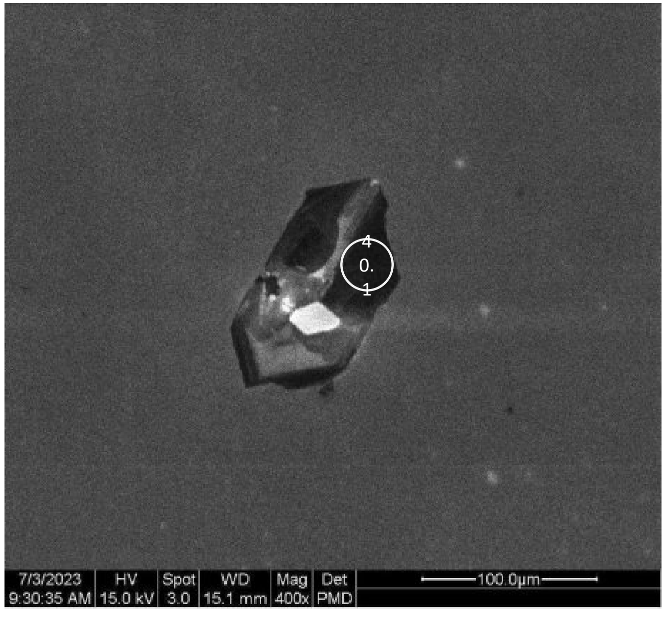
39.1



CG23CR08-CL_040.tif

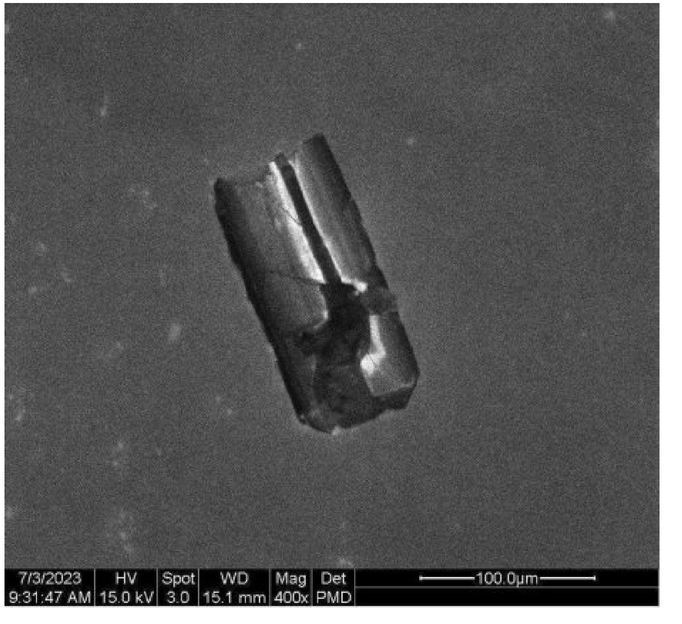
1x U-Pb

40.1



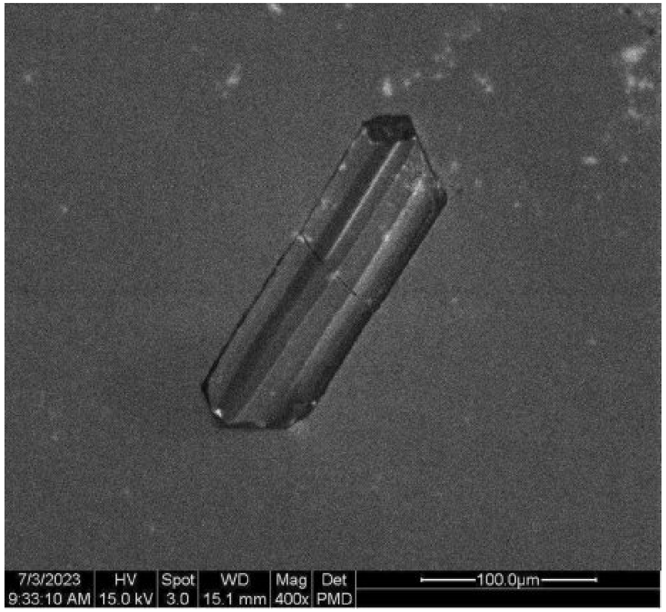
CG23CR08-CL_041.tif

No analysis. Too fractured.



CG23CR08-
CL_042.tif

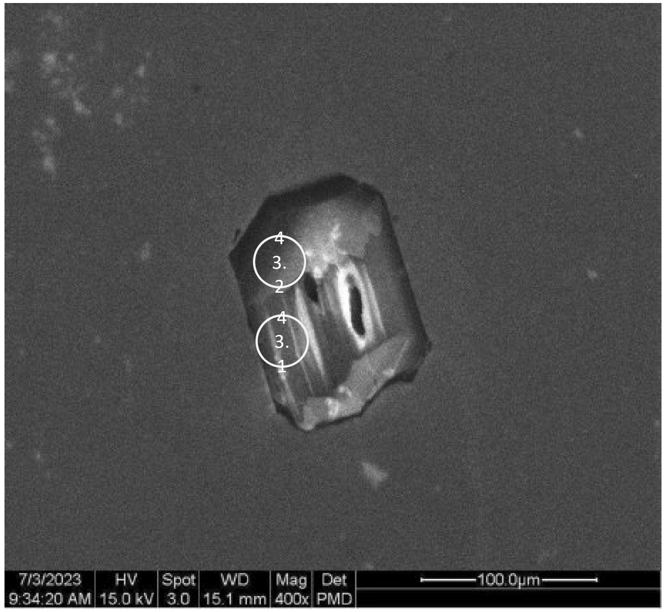
No analysis.
Zones too
narrow.



CG23CR08-
CL_043.tif

2x U-Pb

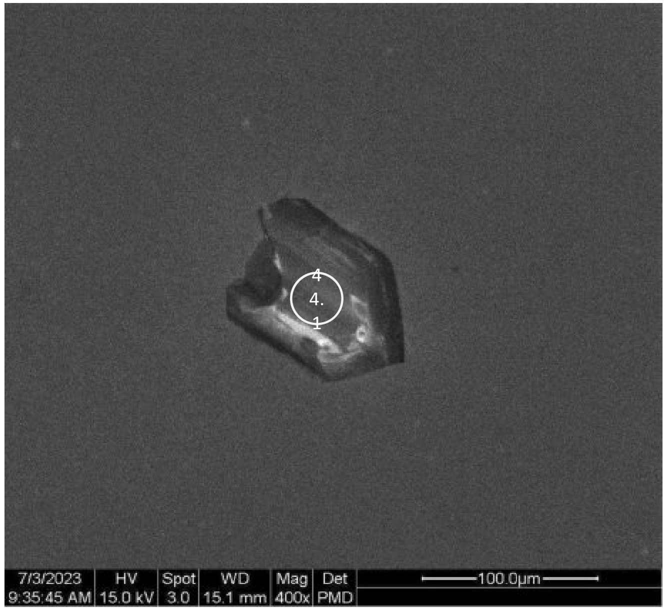
43.1, 43.2



CG23CR08-
CL_044.tif

1x U-Pb

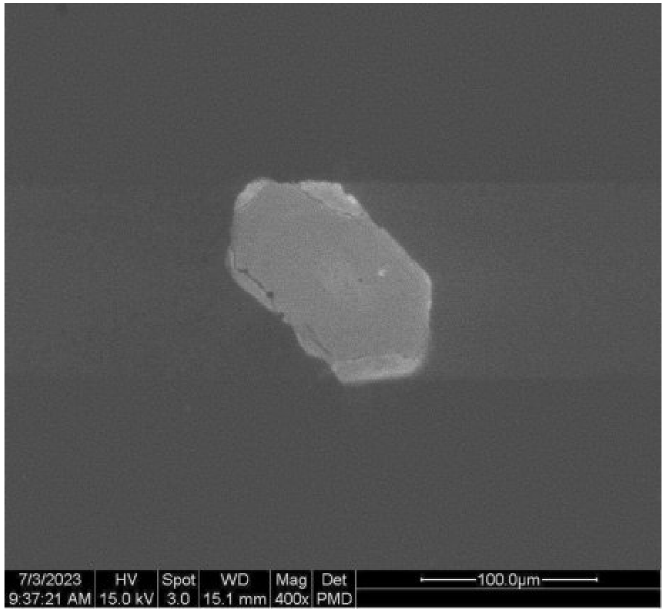
44.1



CG23CR08-
CL_045.tif

No analysis. Not
sure this is a
zircon?

Apatite – in
x section
view??



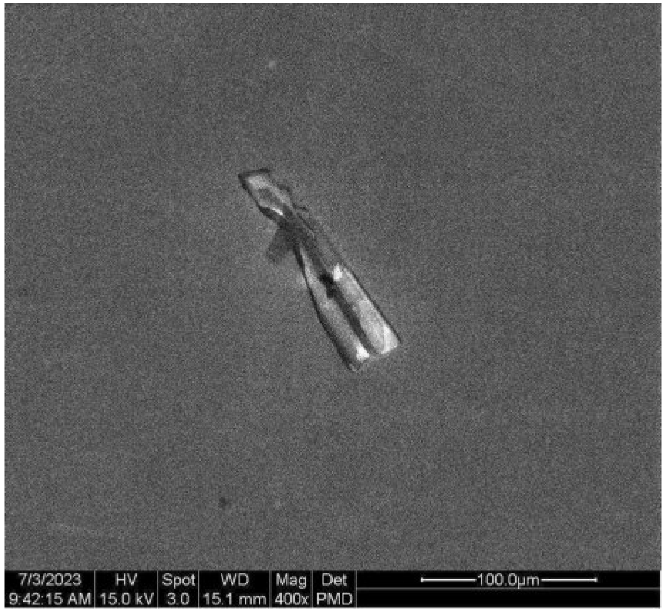
CG23CR08-CL_046.tif

1x U-Pb

46.1

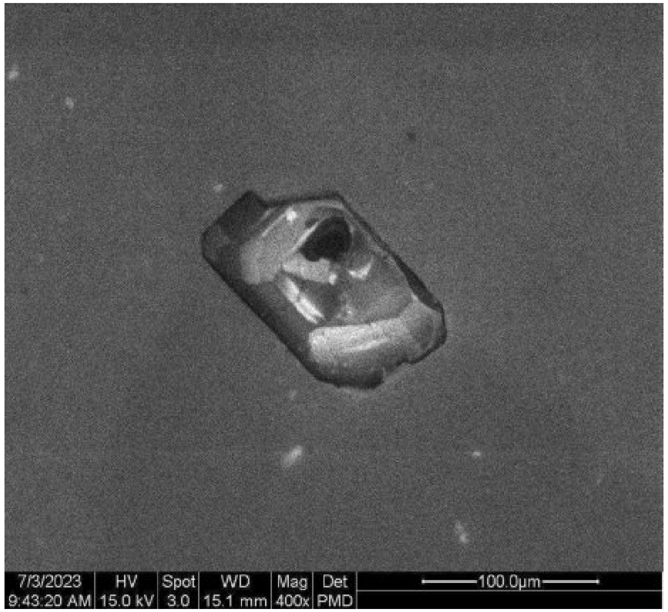
CG23CR08-CL_047.tif

No analysis. Too small.



CG23CR08-CL_048.tif

No analysis. Fractured/sector zoning/alteration/indistinguishable zones.



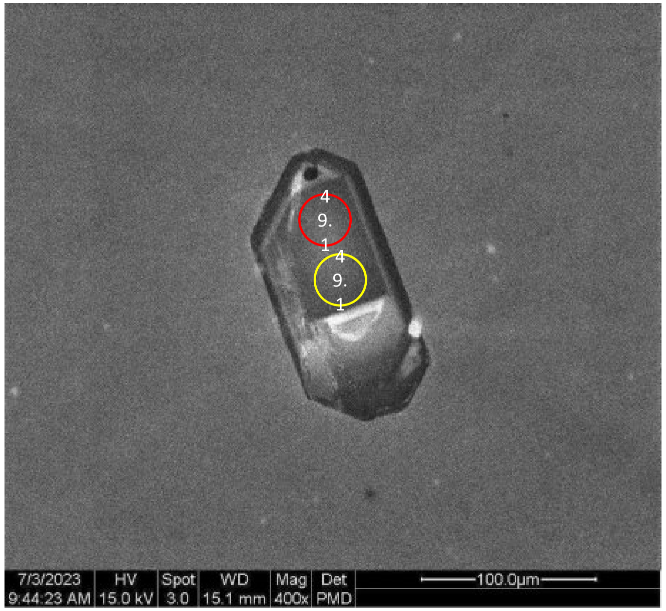
CG23CR08-CL_049.tif

1x U-Pb

49.1

1x TE

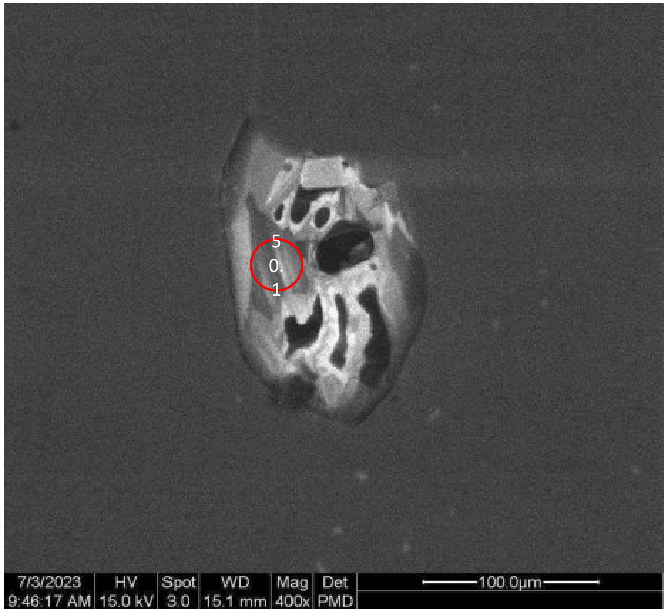
49.1



CG23CR08-CL_050.tif

1x U-Pb

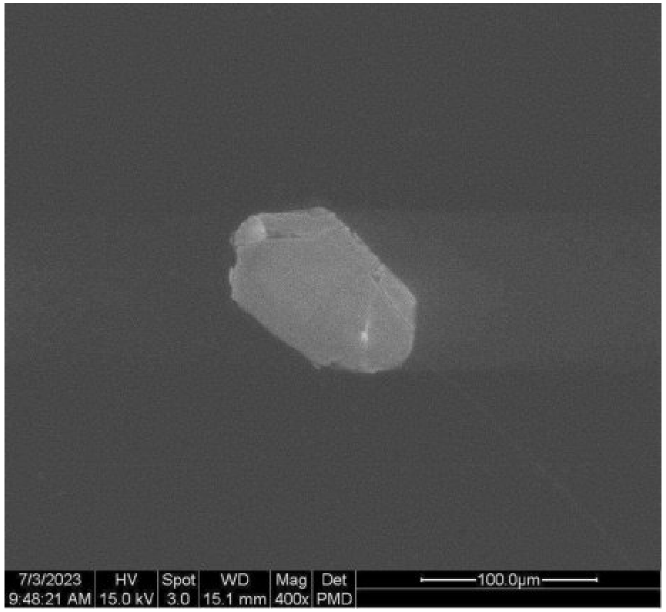
50.1



CG23CR08-CL_051.tif

No analysis. Not sure this is a zircon?

apatite



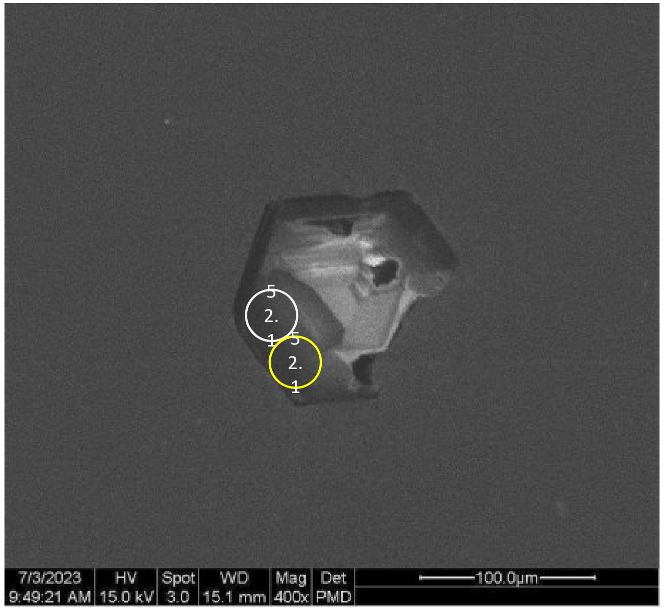
CG23CR08-CL_052.tif

1x U-Pb

52.1

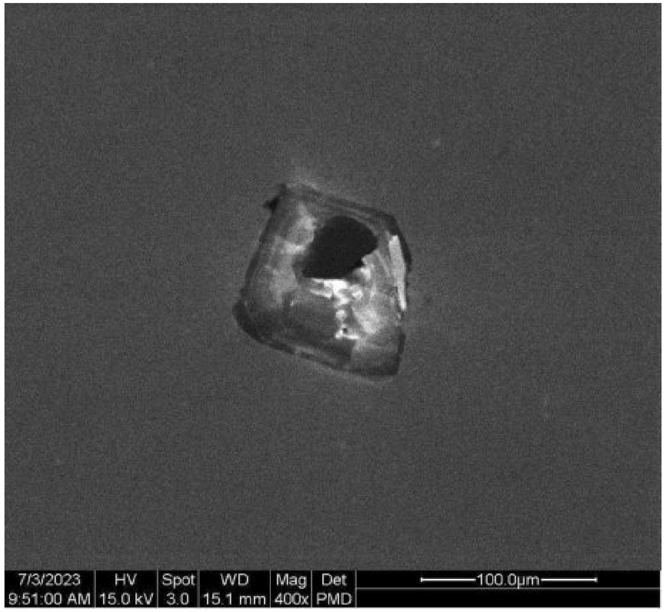
1x TE

52.1



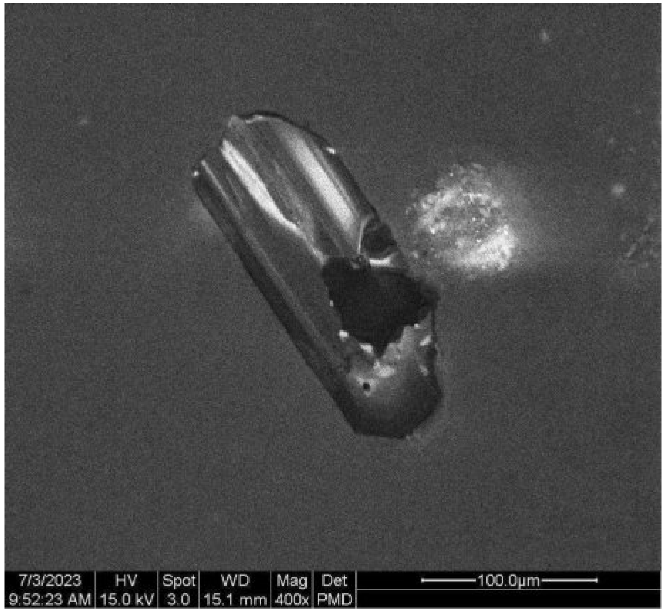
CG23CR08-CL_053.tif

No analysis. Too fractured/indistinguishable zones/altered/zones too small.



CG23CR08-CL_054.tif

No analysis. Fractured/alteration/indistinguishable zones/zones too small.



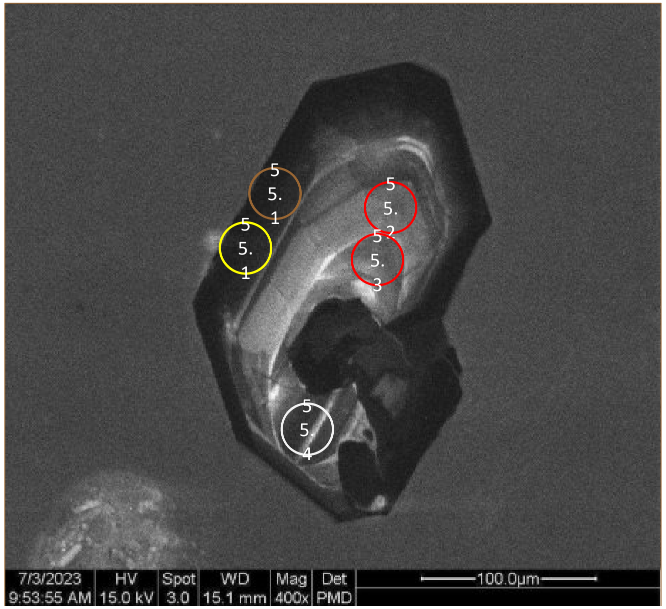
CG23CR08-CL_055.tif

4x U-Pb

55.1, 55.2, 55.3, 55.4

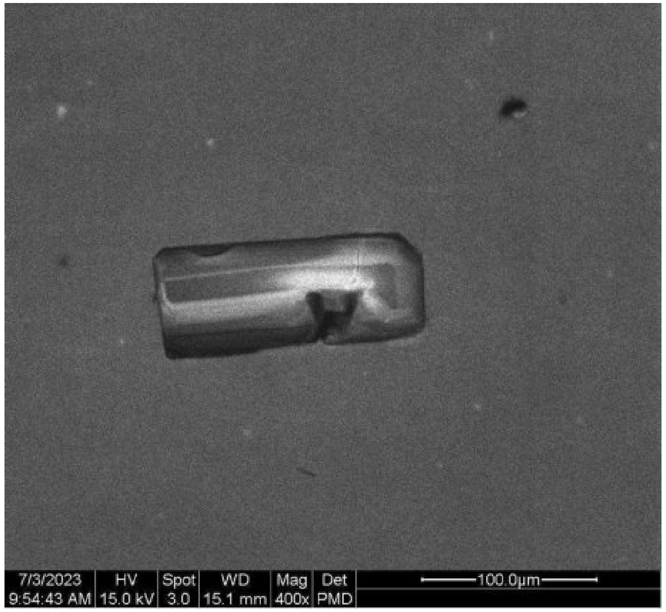
1x TE

55.1



CG23CR08-CL_056.tif

No analysis. Not sure this is a zircon? Think it may be an apatite. Tabular.



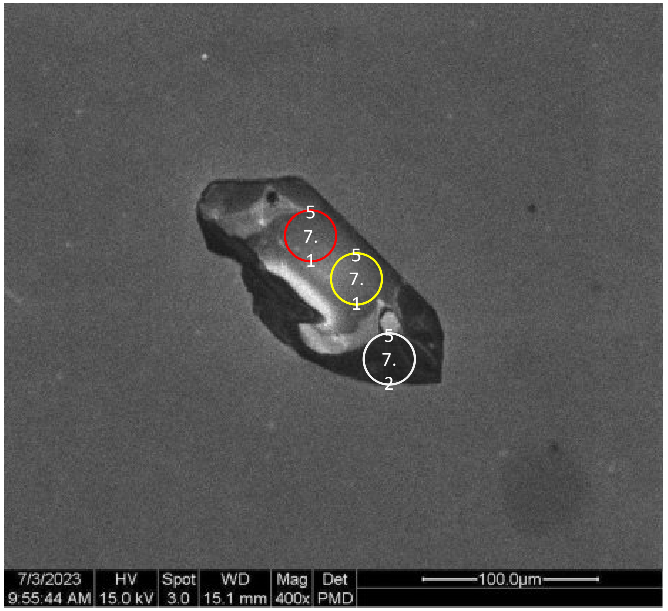
CG23CR08-CL_057.tif

2x U-Pb

57.1, 57.2

1x TE

57.1



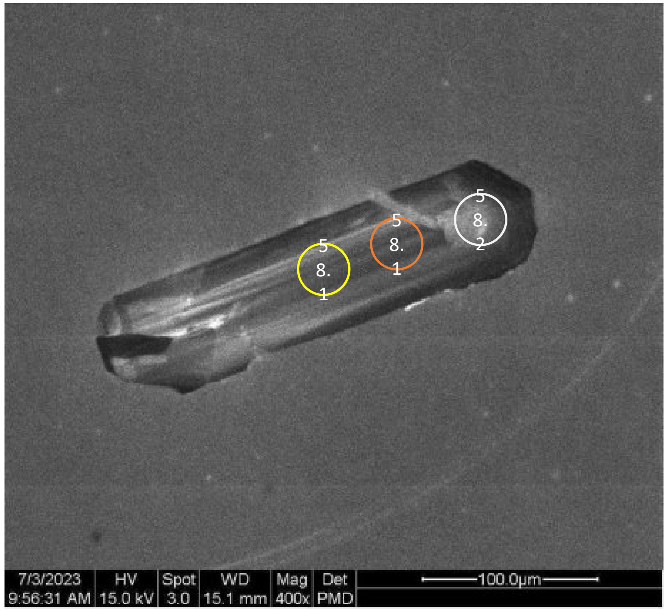
CG23CR08-CL_058.tif

2x U-Pb

58.1, 58.2

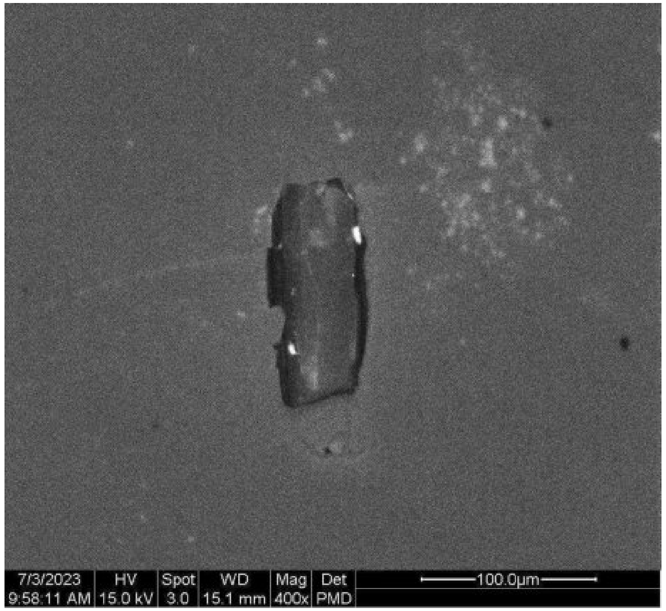
1x TE

58.1



CG23CR08-CL_059.tif

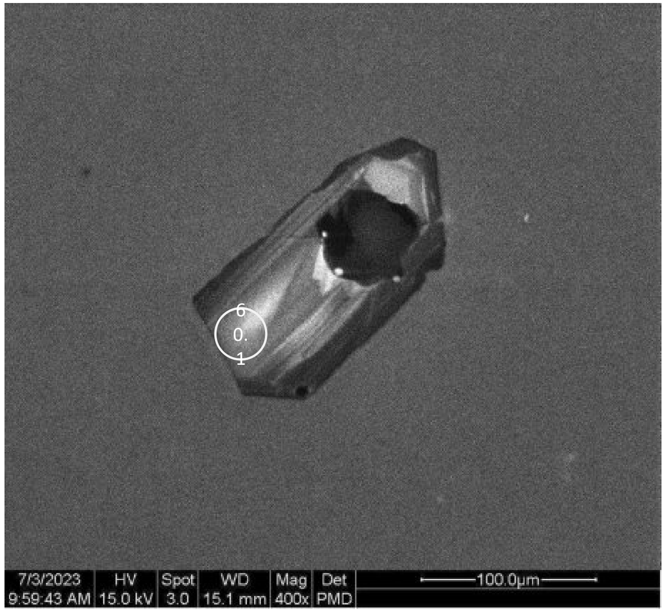
No analysis. Grain too small, hard to distinguish between zones.



CG23CR08-CL_060.tif

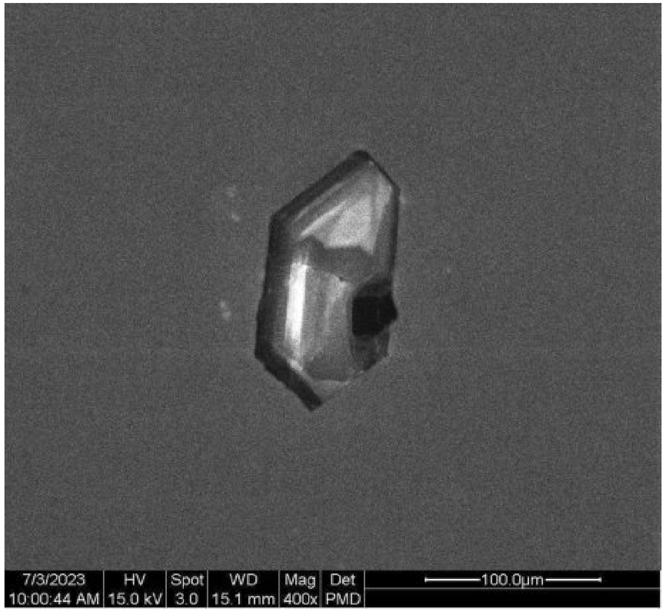
1x U-Pb

60.1



CG23CR08-CL_061.tif

No analysis. Grain too small/zones too narrow.



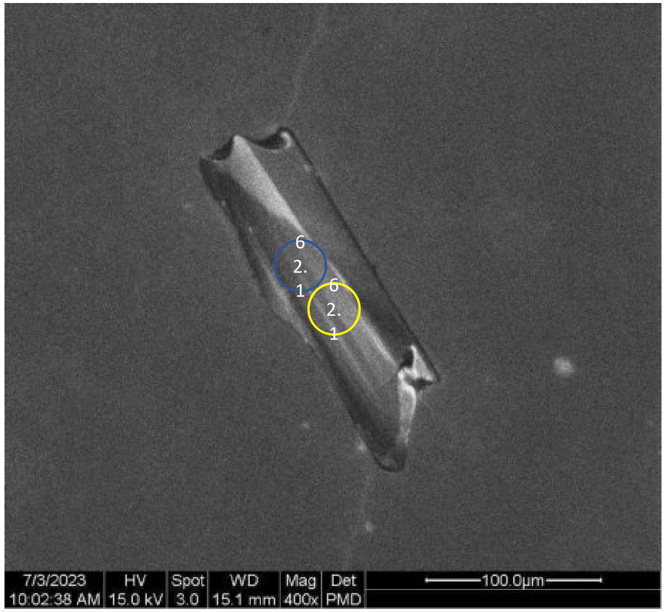
CG23CR08-CL_062.tif

1x U-Pb

62.1

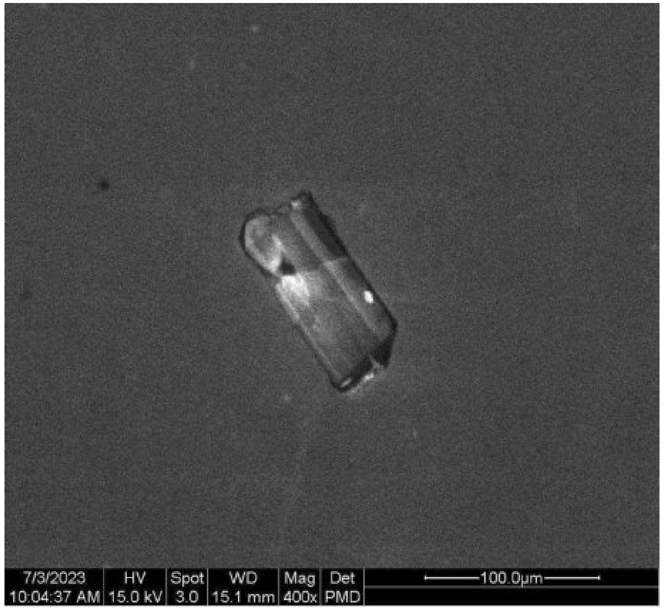
1x TE

62.1



CG23CR08-CL_063.tif

No analysis. Grain too small/zones too narrow/too fractured.

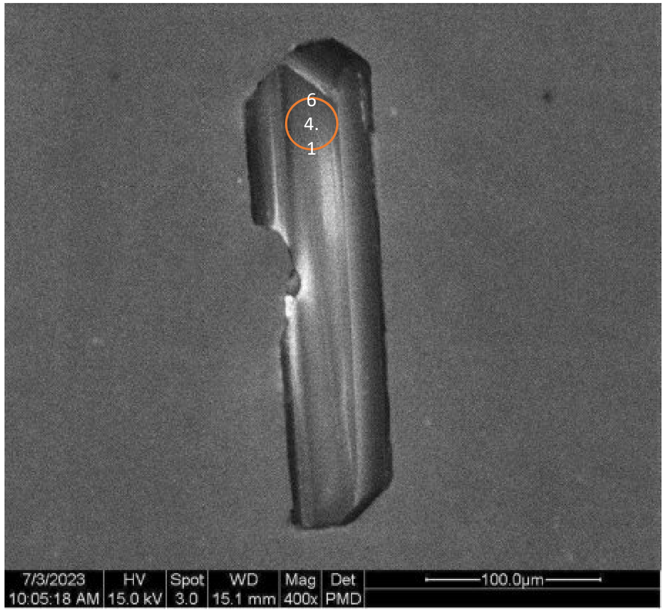


CG23CR08-CL_064.tif

1x U-Pb

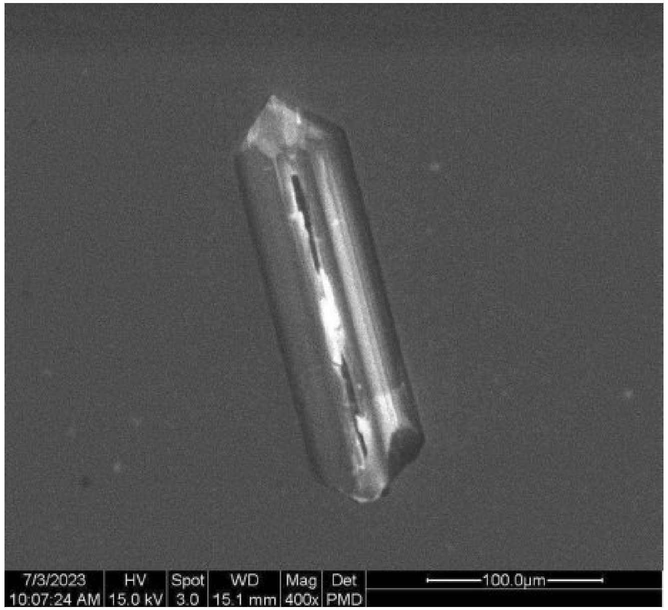
64.1

Zones too narrow/overlapping for any more spots!



CG23CR08-CL_065.tif

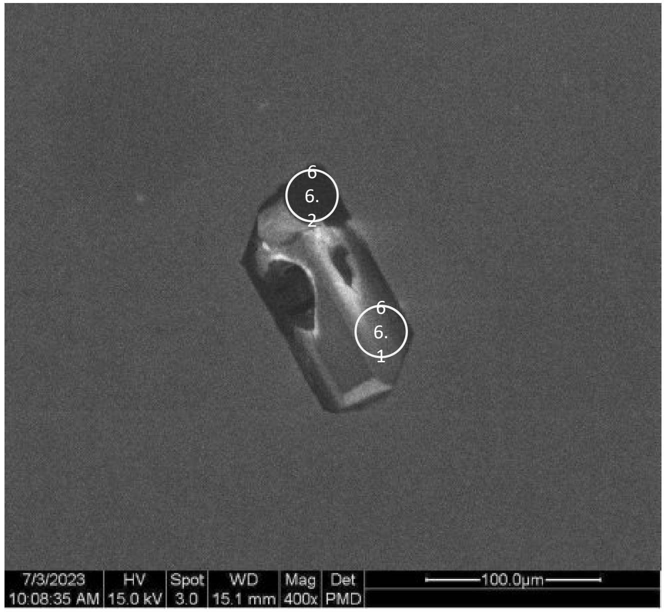
No analysis. Zones too narrow/too fractured.



CG23CR08-CL_066.tif

2x U-Pb

66.1, 66.2



CG23CR08-CL_067.tif

2x U-Pb

67.1, 67.2

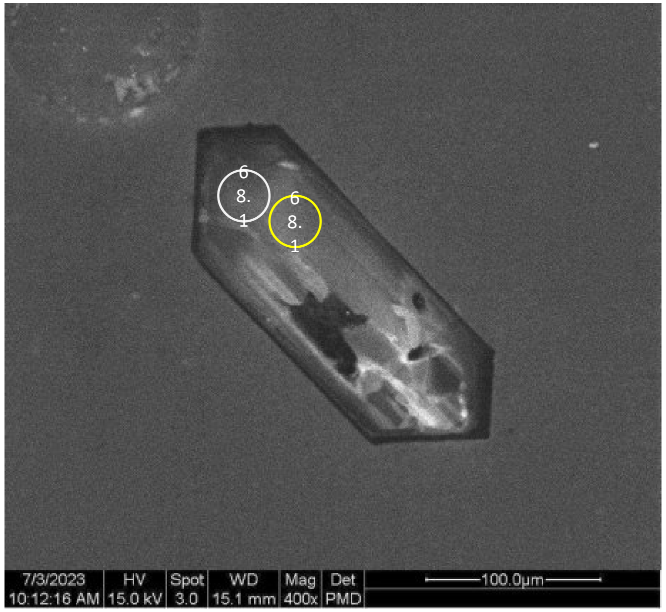
CG23CR08-CL_068.tif

1x U-Pb

68.1

1x TE

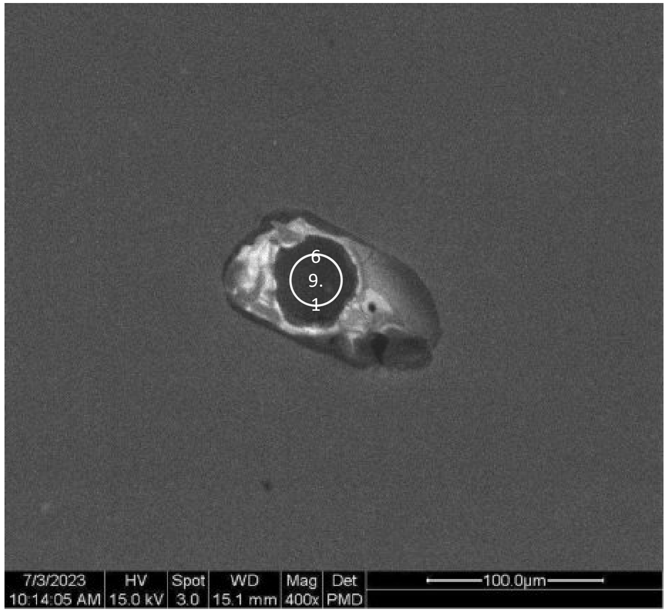
68.1



CG23CR08-CL_069.tif

1x U-Pb

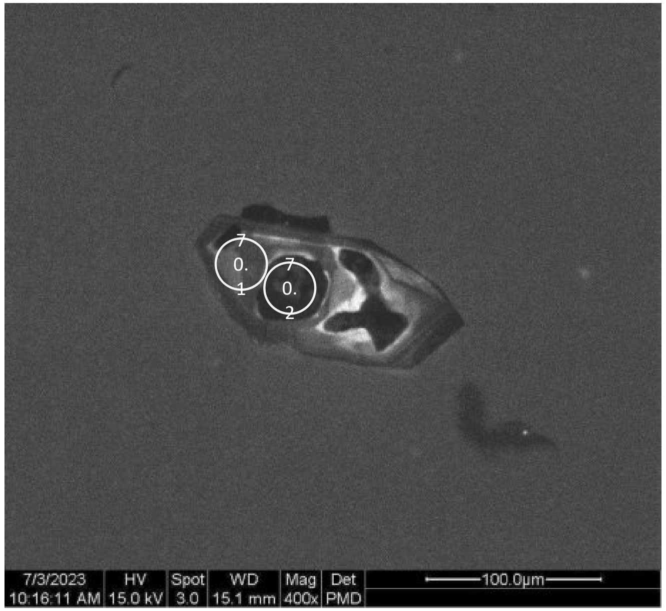
69.1



CG23CR08-CL_070.tif

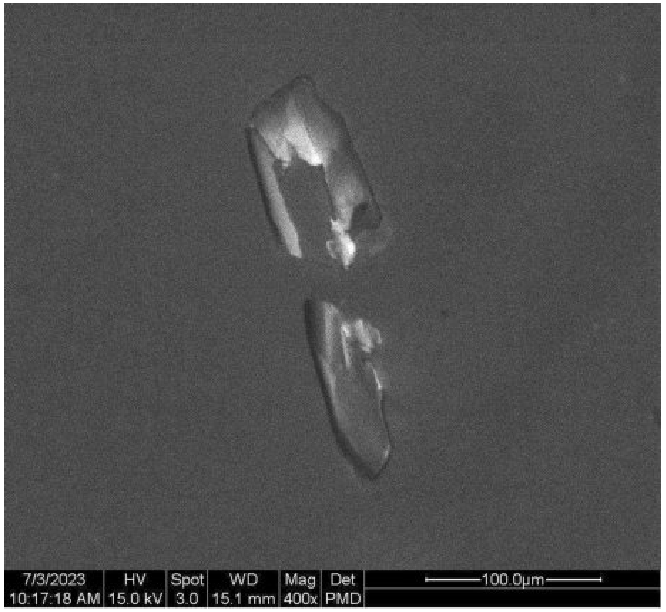
2x U-Pb

70.1, 70.2



CG23CR08-CL_071.tif

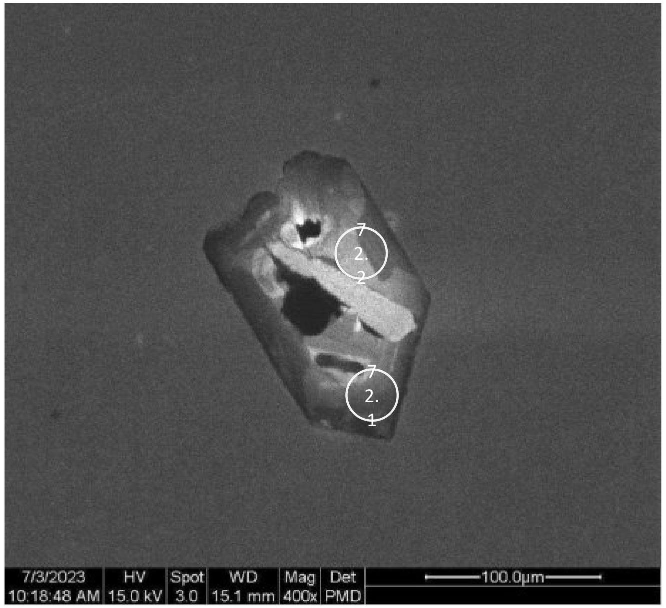
No analysis. Broken grain.



CG23CR08-CL_072.tif

2x U-Pb

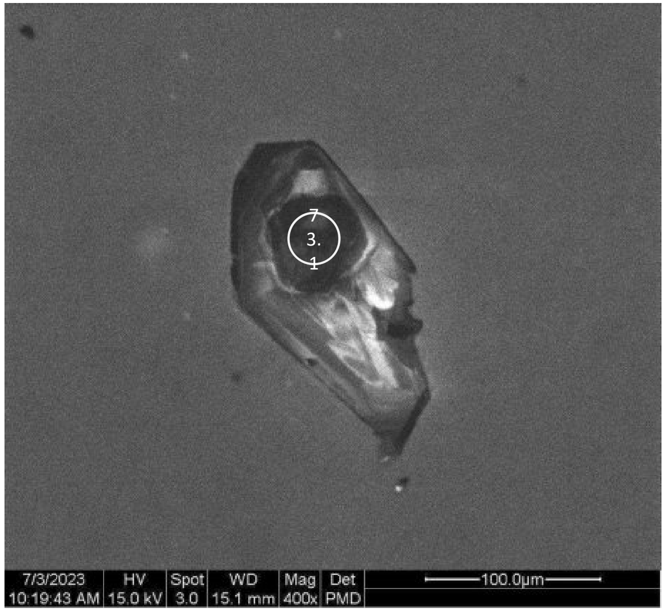
72.1, 72.2



CG23CR08-CL_073.tif

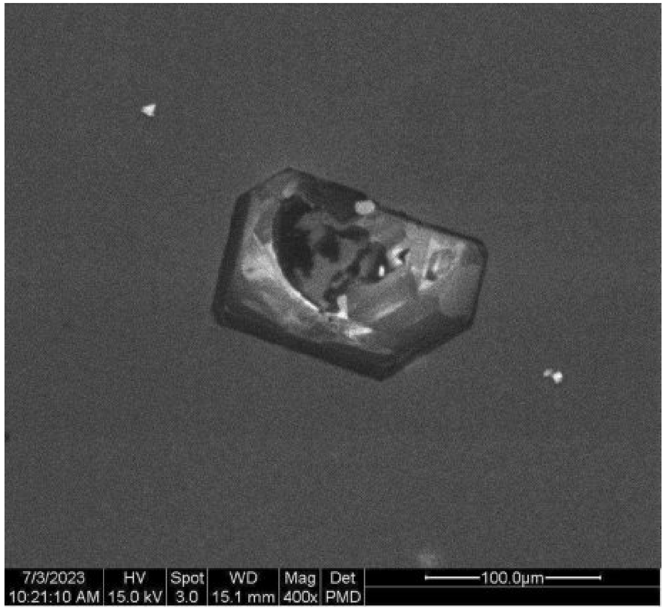
1x U-Pb

73.1



CG23CR08-
CL_074.tif

No analysis. Grain is too altered/fractured/ messy /zones too small.



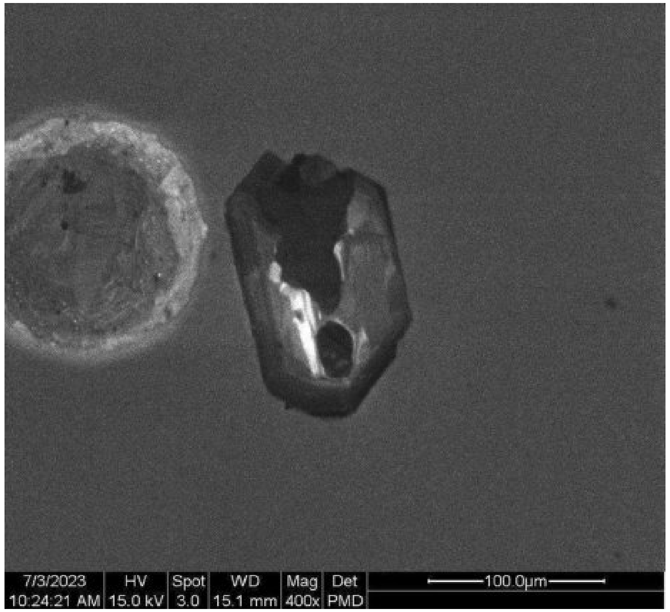
CG23CR08-
CL_075.tif

1x U-Pb

75.1

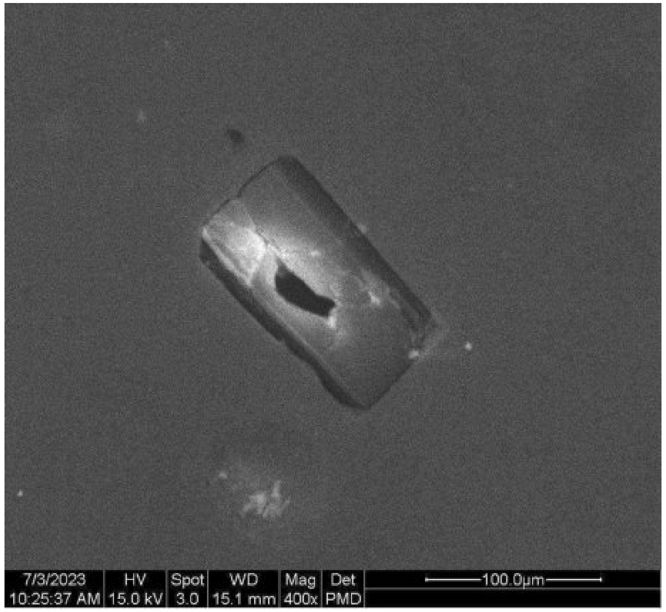
CG23CR08-
CL_076.tif

No analysis. Grain is too altered/fractured/ messy.



CG23CR08-
CL_077.tif

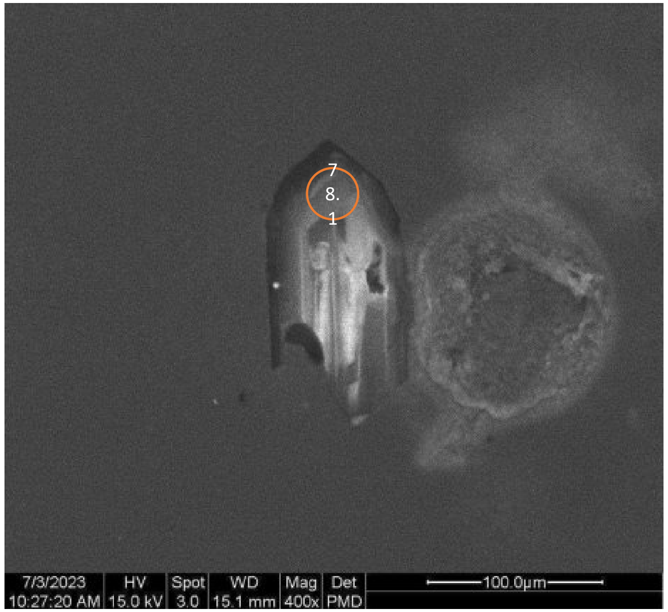
No analysis. Grain is an apatite instead of a zircon?



CG23CR08-
CL_078.tif

1x U-Pb

78.1



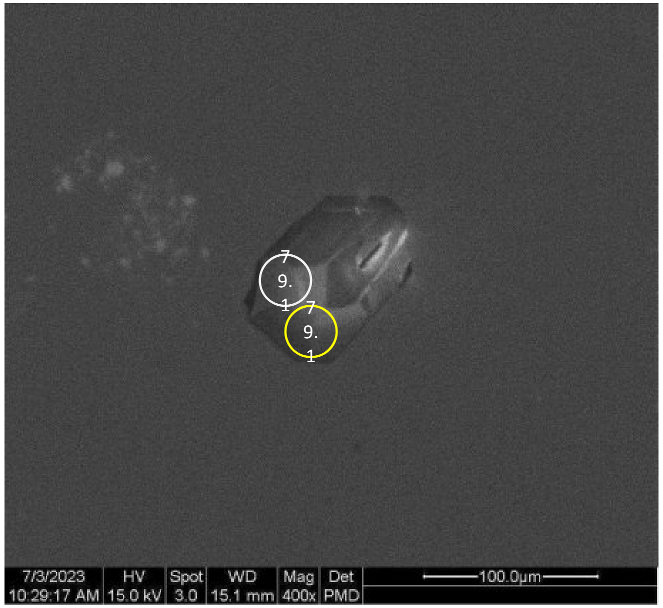
CG23CR08-
CL_079.tif

1x U-Pb

79.1

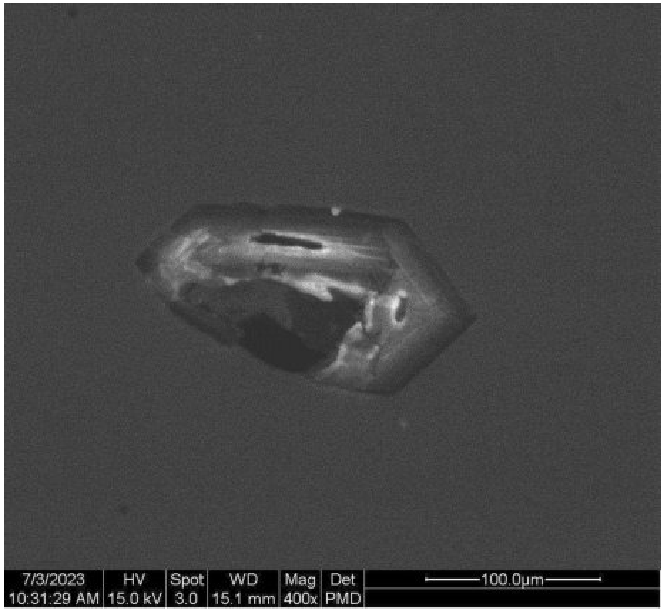
1x TE

79.1



CG23CR08-
CL_080.tif

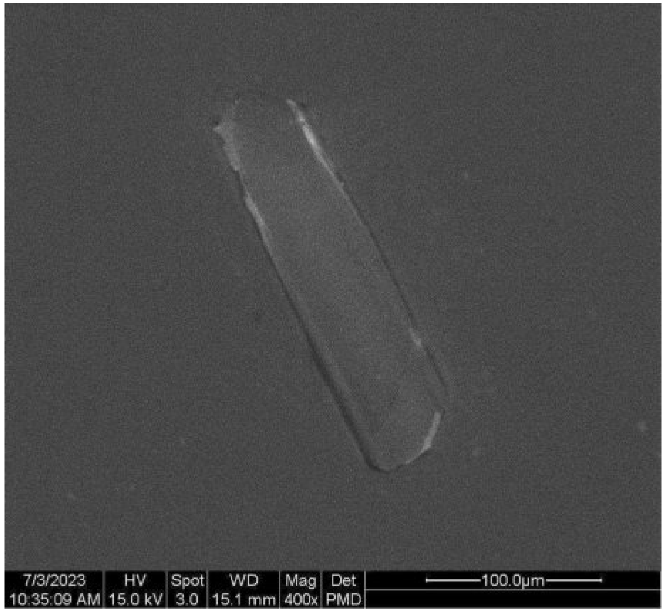
No analysis. Grain is too altered/fractured/ messy.



CG23CR08-
CL_081.tif

No analysis. Grain is an apatite instead of a zircon?

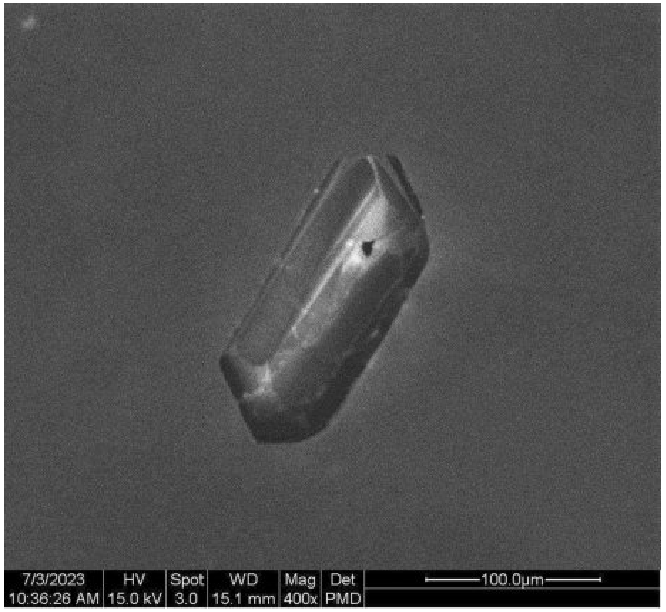
Relabelled this one 82 (was 81) to be consistent with what's on the reference scan. There is now no grain labelled 83, previously there was no grain labelled 81.



CG23CR08-
CL_082.tif

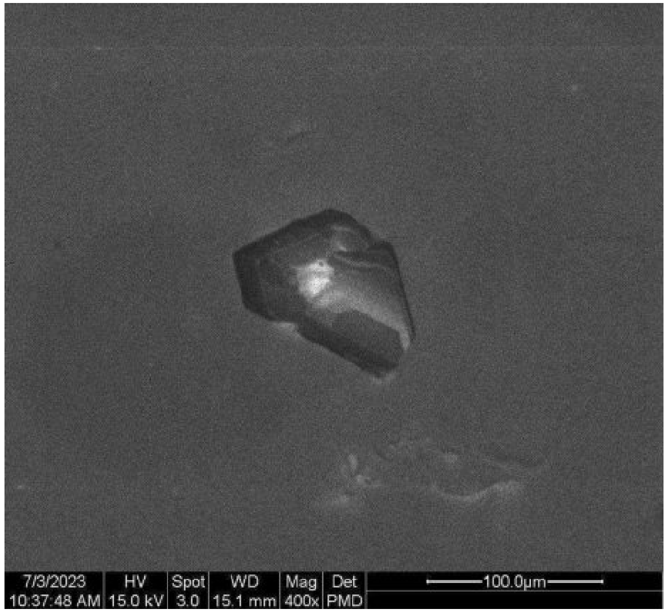
No analysis. Grain is too fractured/zones too small.

Relabelled this one 82 (was 81) to be consistent with what's on the reference scan)



CG23CR08-
CL_084.tif

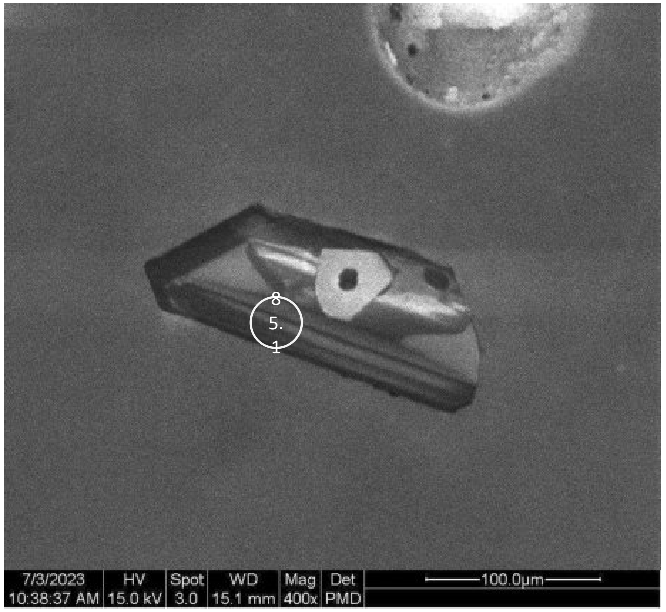
No analysis. Grain is too fractured/zones too small.



CG23CR08-
CL_085.tif

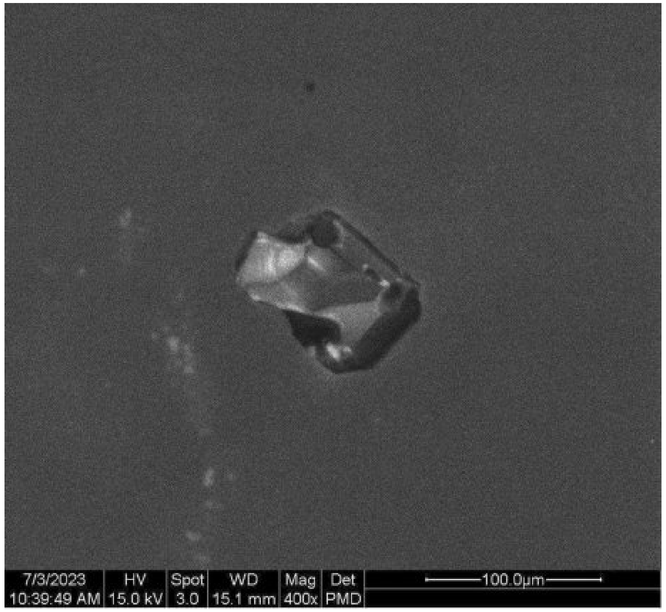
1x U-Pb

85.1



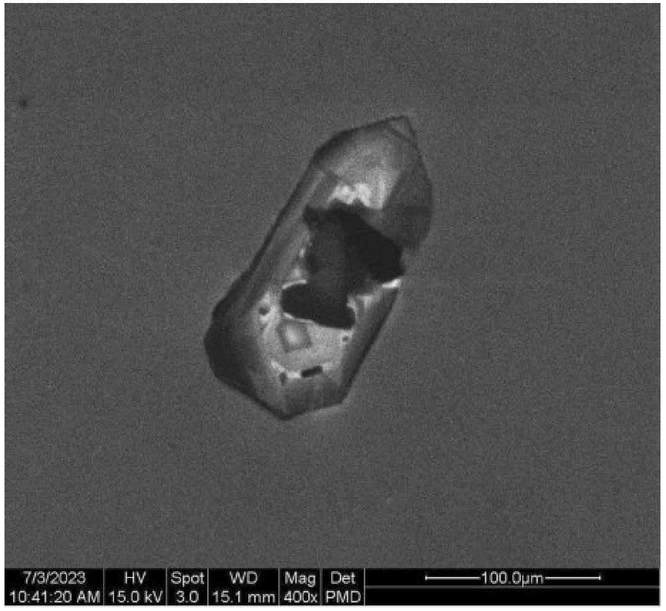
CG23CR08-
CL_086.tif

No analysis. Grain is too small/zones too narrow.



CG23CR08-
CL_087.tif

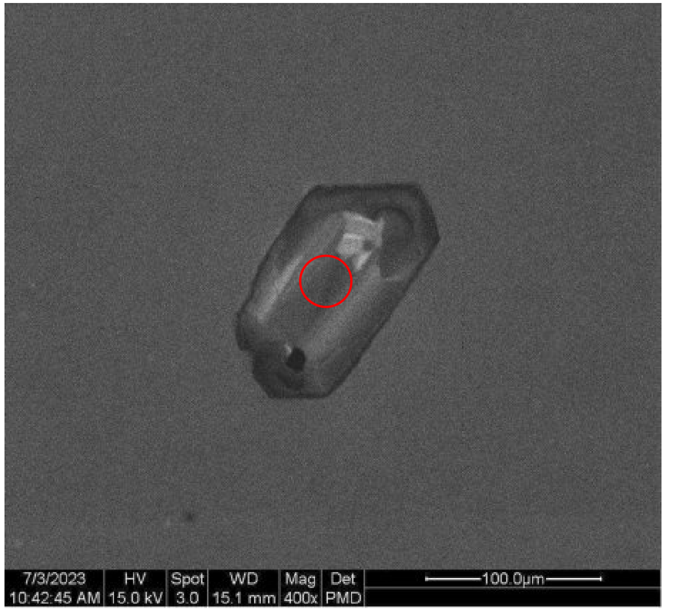
No analysis. Grain is too fractured/zones too small/lots of alteration.



CG23CR08-
CL_088.tif

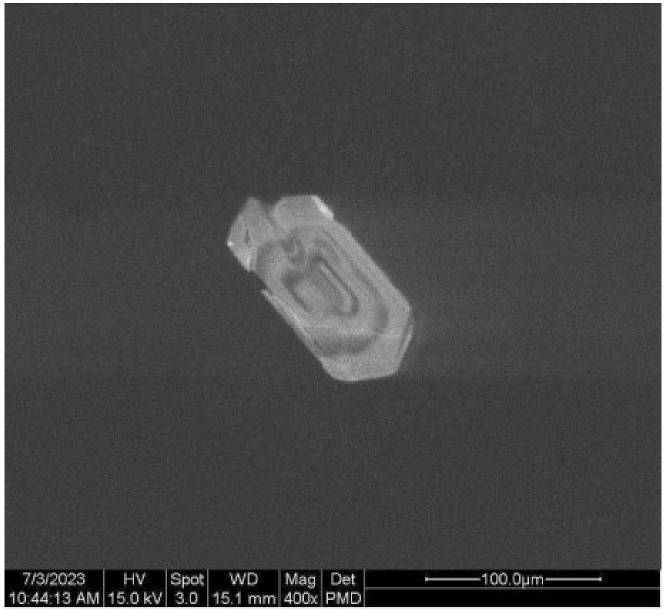
1x U-Pb

88.1



CG23CR08-
CL_089.tif

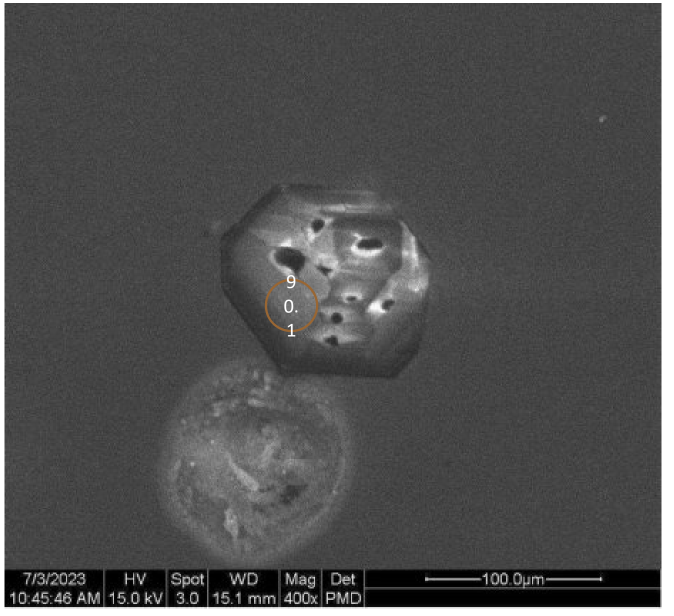
No analysis. Zones too small.



CG23CR08-
CL_090.tif

1x U-Pb

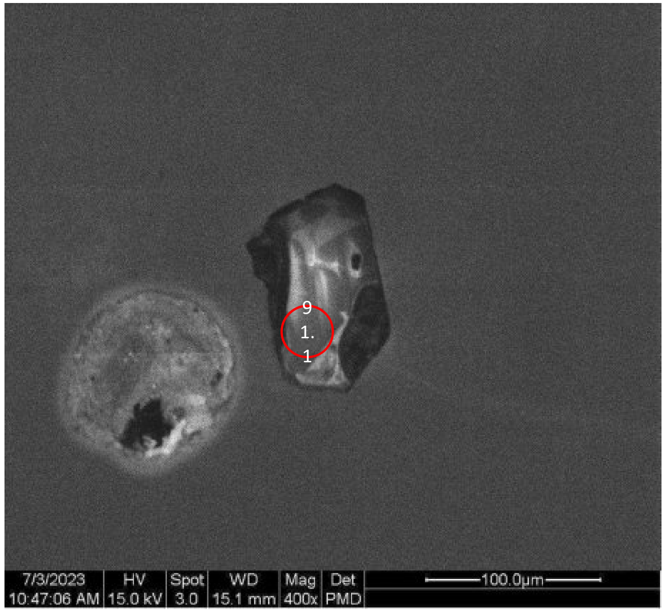
90.1



CG23CR08-
CL_091.tif

1x U-Pb

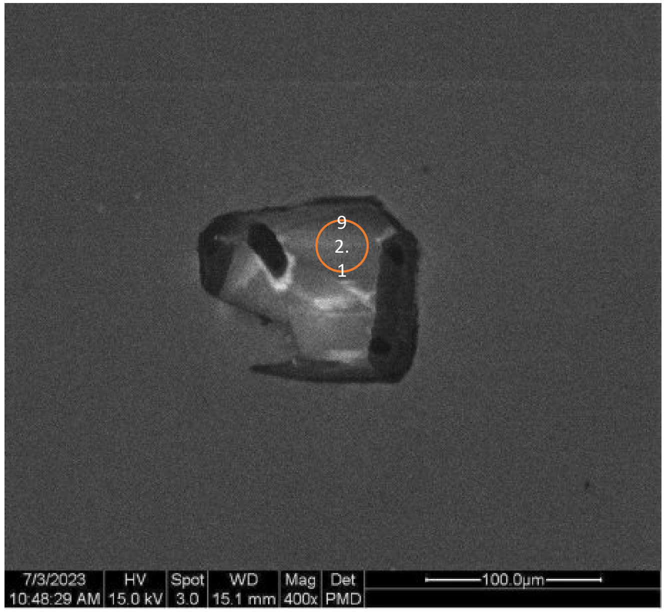
91.1



CG23CR08-
CL_092.tif

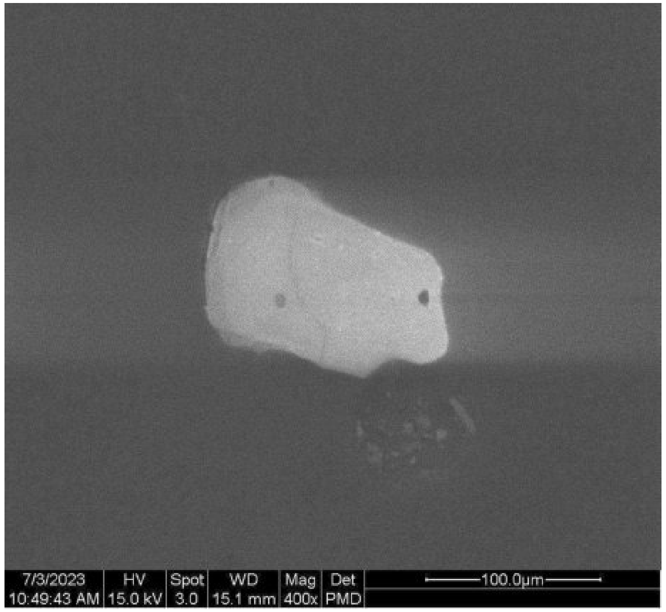
1x U-Pb

92.1



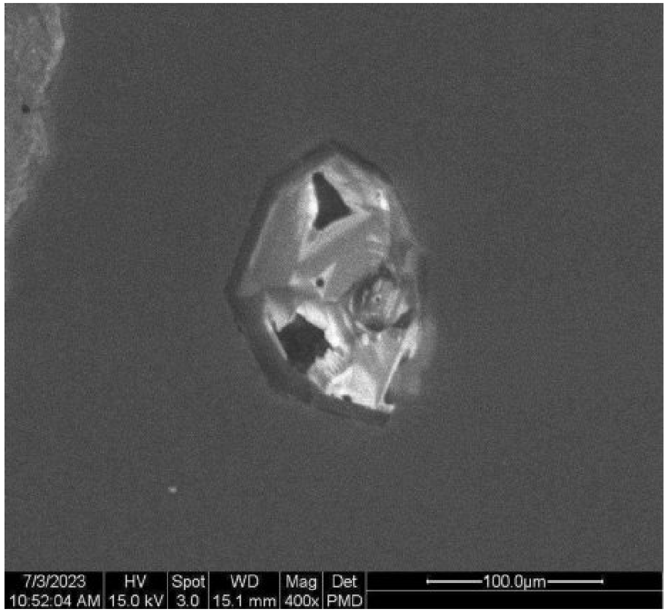
CG23CR08-
CL_093.tif

No analysis –
dust???



CG23CR08-
CL_095.tif

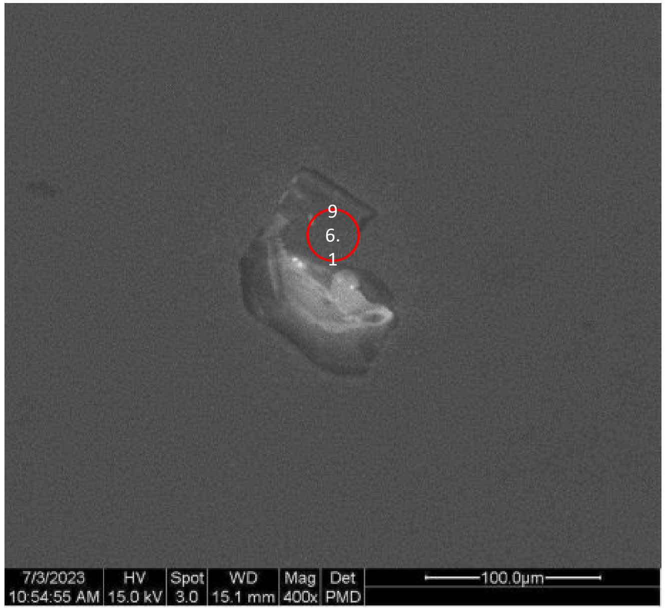
No analysis. Grain
too altered/zones
too small/too
fractured.



CG23CR08-CL_096.tif

1x U-Pb

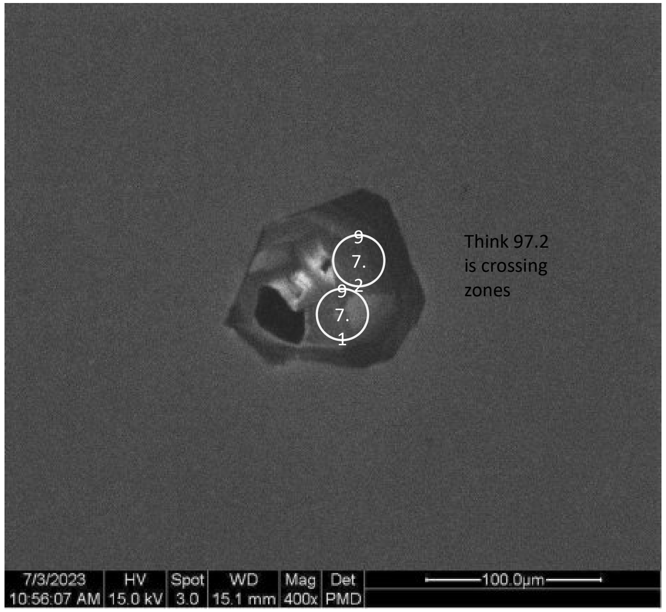
96.1



CG23CR08-CL_097.tif

2x U-Pb

97.1, 97.2

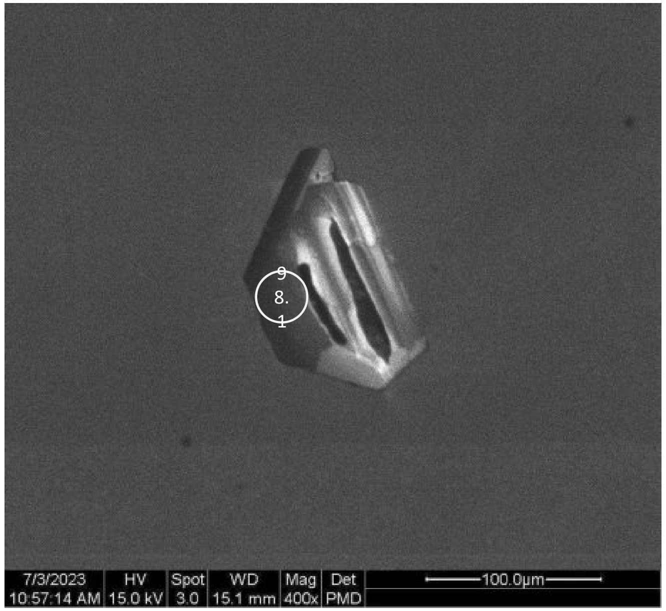


Think 97.2 is crossing zones

CG23CR08-CL_098.tif

1x U-Pb

98.1



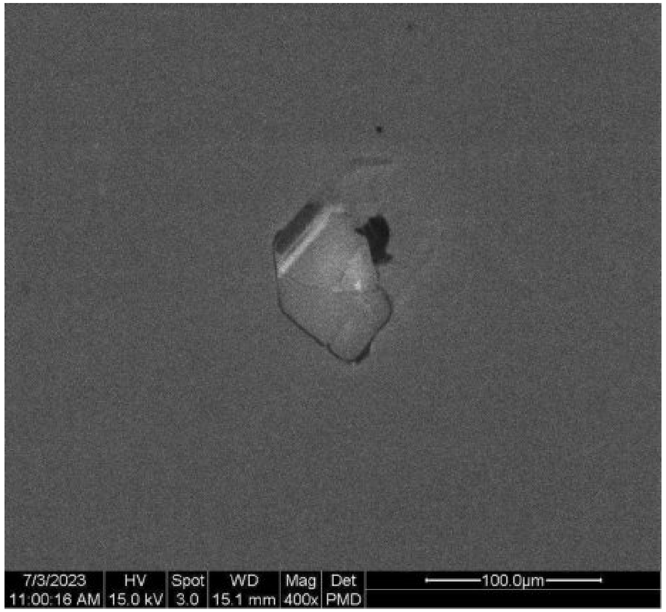
CG23CR08-CL_099.tif

2x U-Pb

99.1, 99.2

CG23CR08-
CL_100.tif

No analysis. Grain too small/too fractured.



CG23CR08-
CL_101.tif

1x U-Pb

101.1

CG23CR08-
CL_102.tif

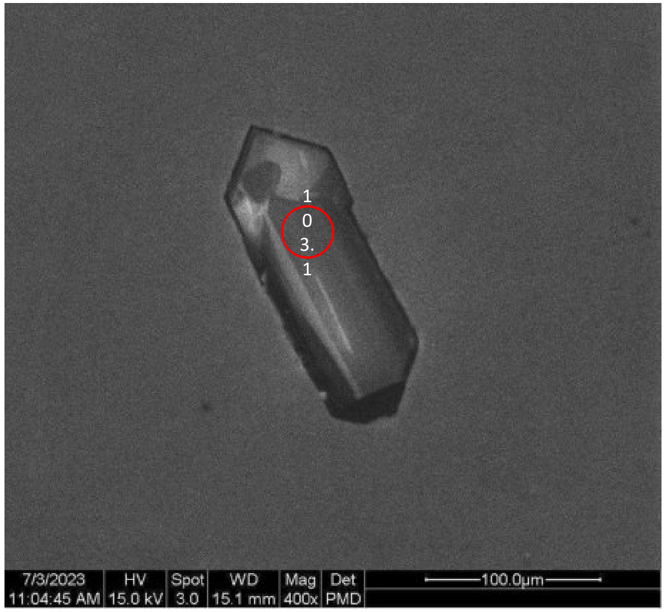
1x U-Pb

102.1

CG23CR08-
CL_103.tif

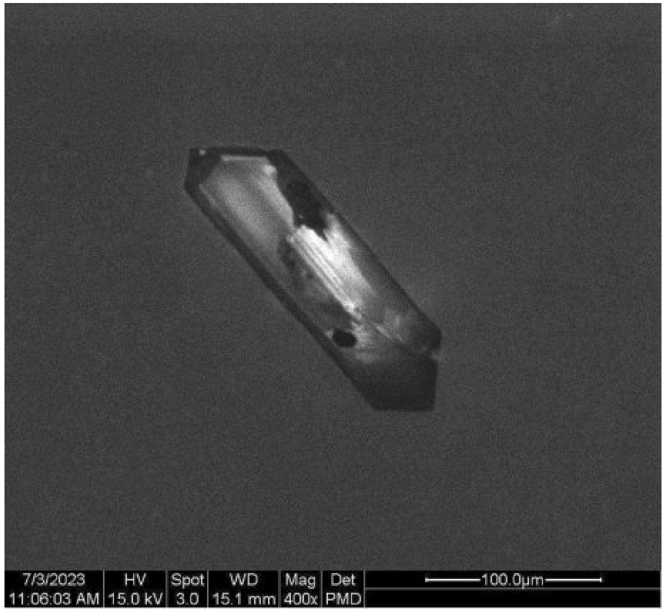
1x U-Pb

103.1



CG23CR08-
CL_104.tif

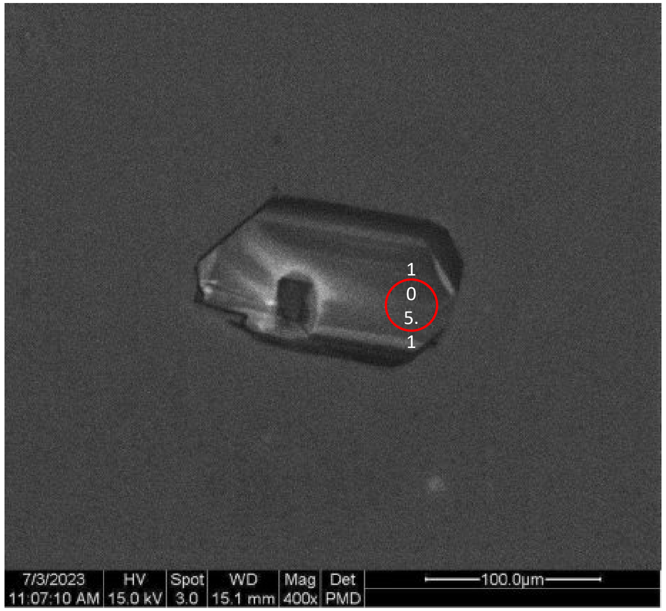
No analysis. Zones too small/too fractured.



CG23CR08-
CL_105.tif

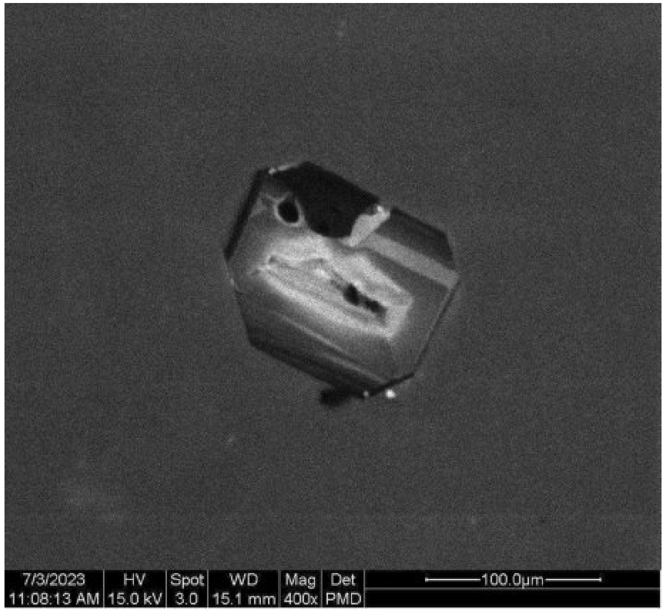
1x U-Pb

105.1



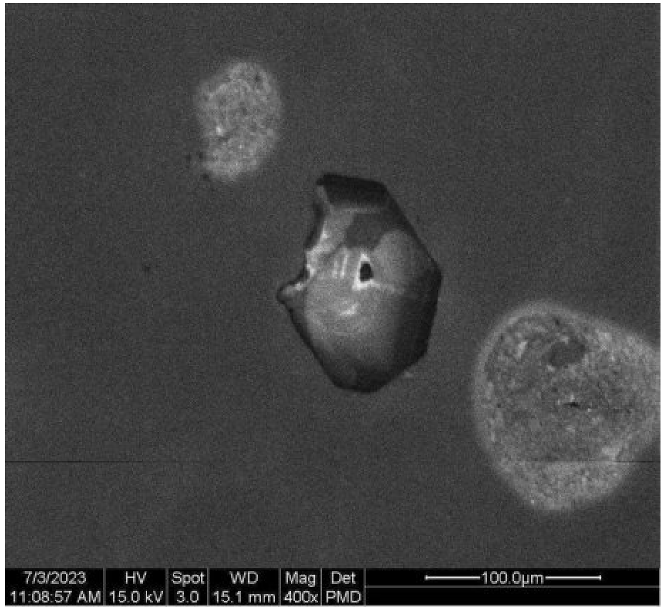
CG23CR08-
CL_106.tif

No analysis. Zones too small/overlapping zones/too fractured.



CG23CR08-
CL_107.tif

No analysis. Zones too small/hard to distinguish between zones.



Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Discordant points

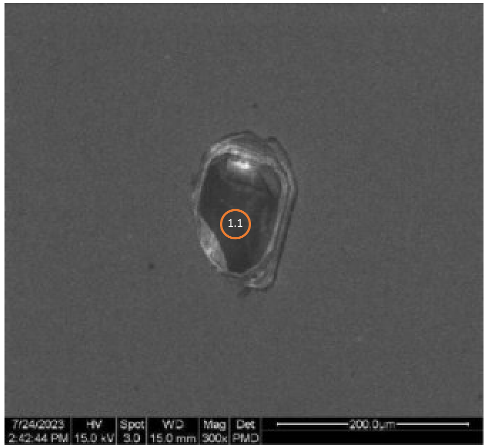
Emplacement zircons (i.e., zircons included in emplacement age calculation)

Grains with no spots were not analysed in this study.

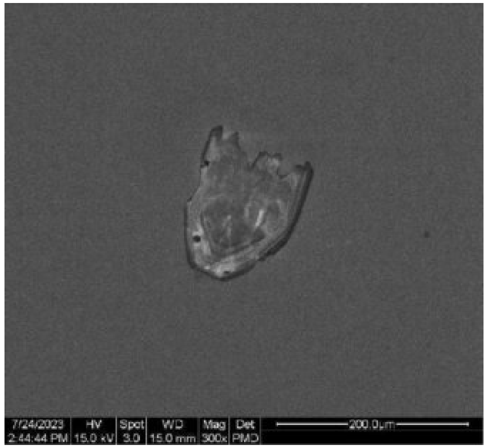
Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

Xenocrystic zircons (i.e., grains with spots > 425 Ma)

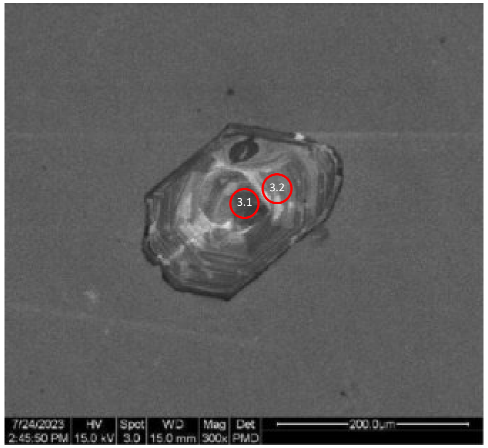
CG23CH01-CL_001.tif



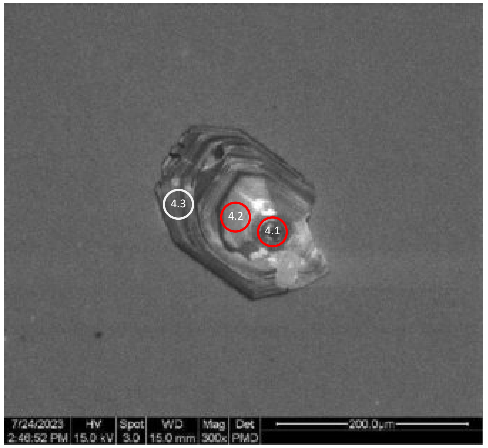
CG23CH01-CL_002.tif



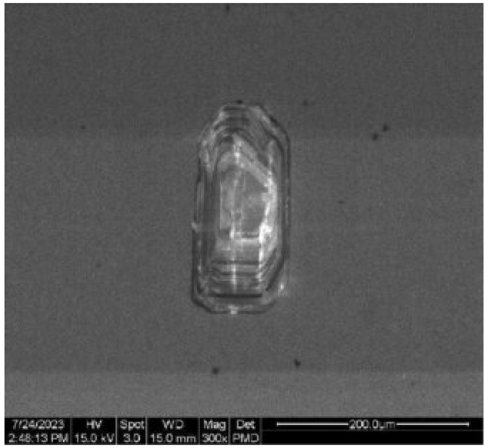
CG23CH01-CL_003.tif



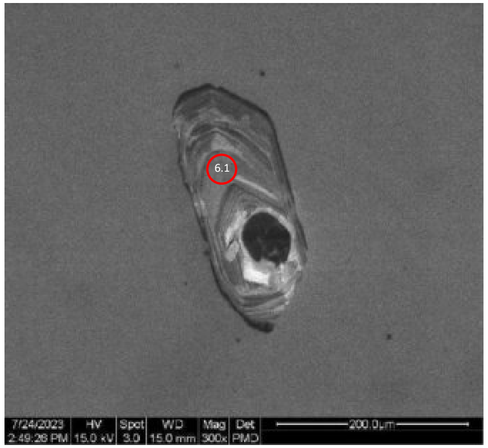
CG23CH01-CL_004.tif



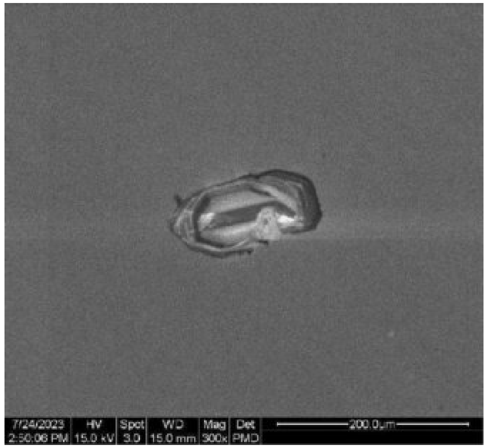
CG23CH01-CL_005.tif



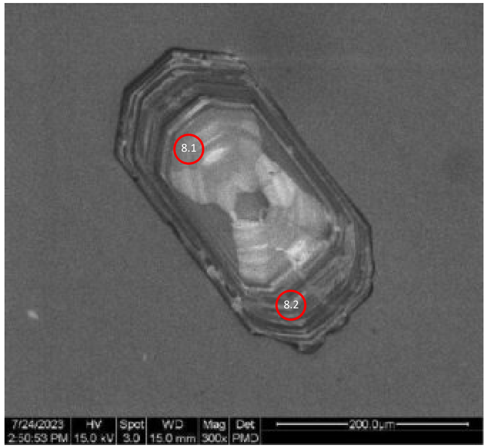
CG23CH01-CL_006.tif



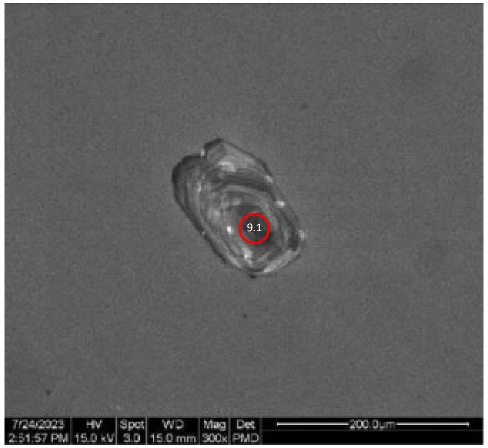
CG23CH01-CL_007.tif



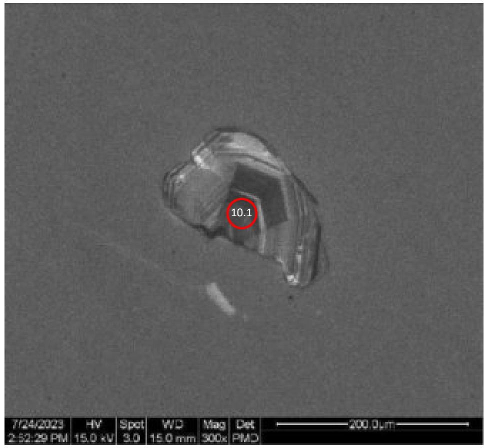
CG23CH01-
CL_008.tif



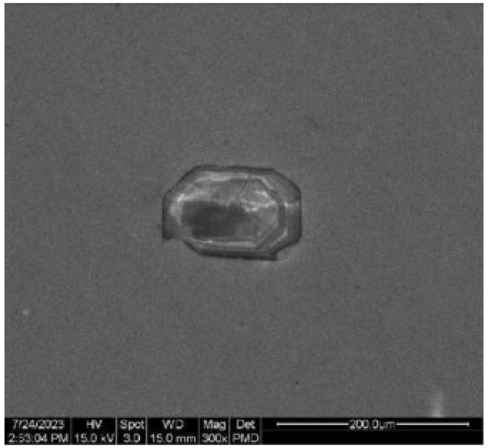
CG23CH01-
CL_009.tif



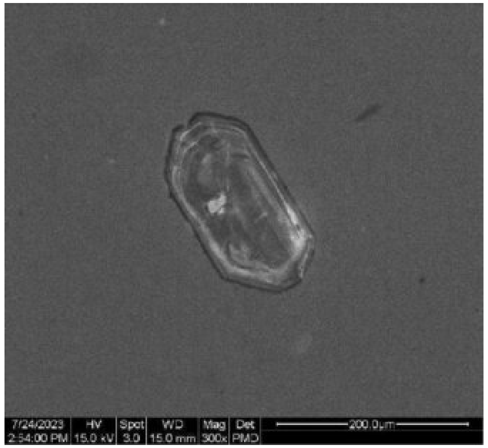
CG23CH01-
CL_010.tif



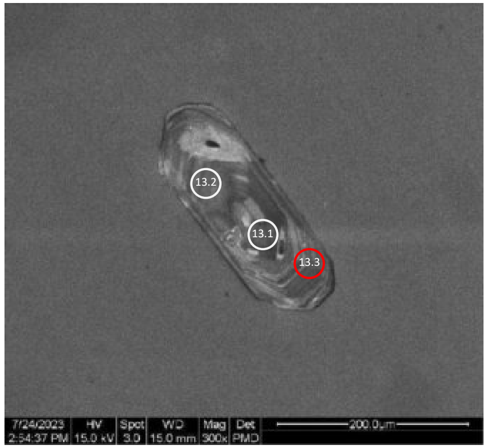
CG23CH01-
CL_011.tif



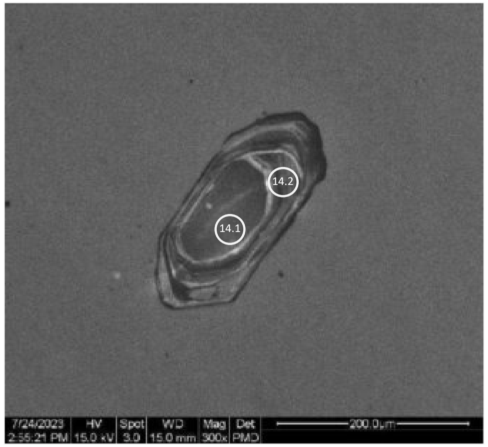
CG23CH01-
CL_012.tif



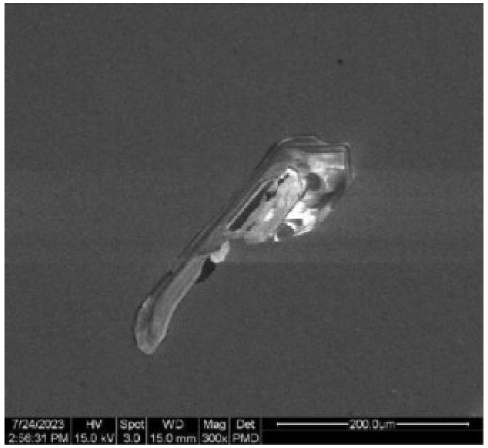
CG23CH01-
CL_013.tif



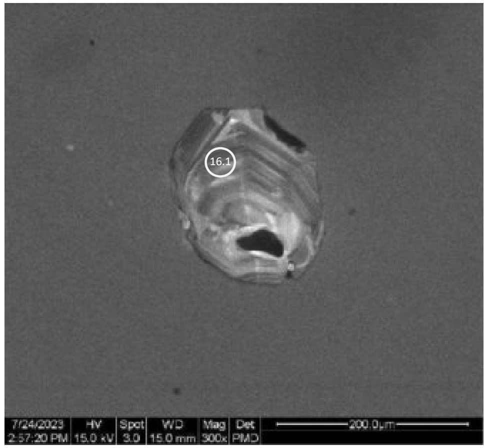
CG23CH01-
CL_014.tif



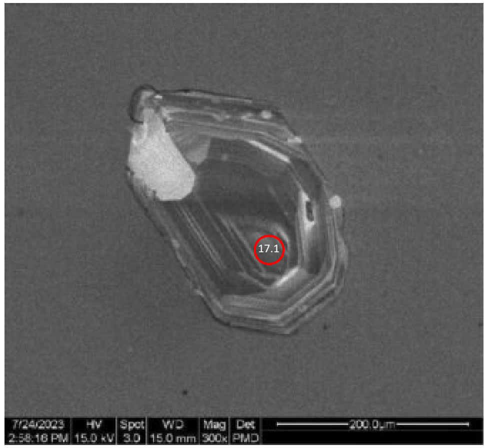
CG23CH01-
CL_015.tif



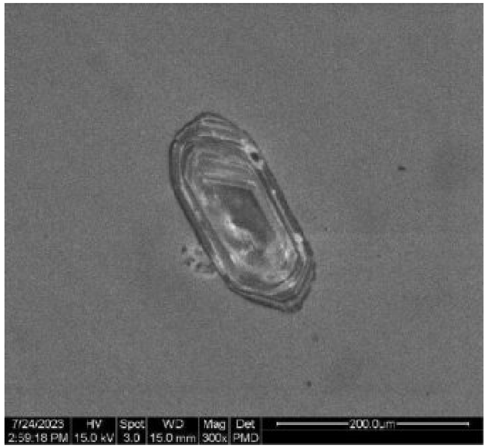
CG23CH01-
CL_016.tif



CG23CH01-
CL_017.tif

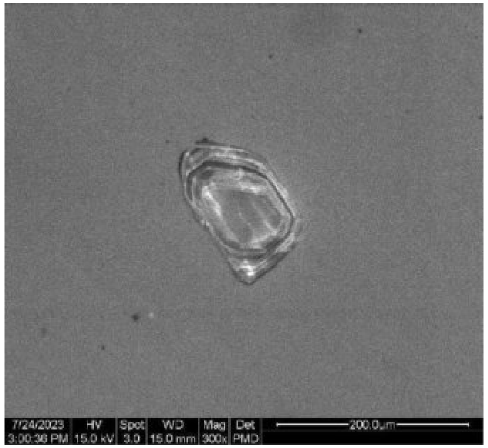


CG23CH01-
CL_018.tif

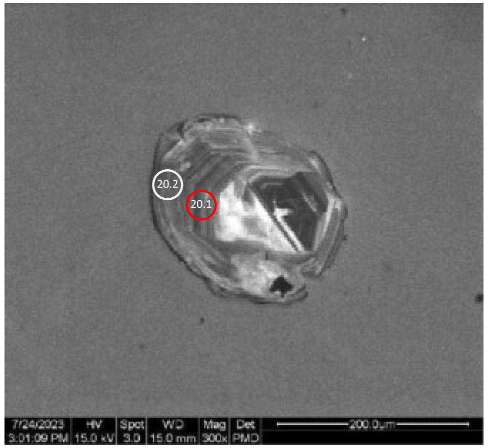


CG23CH01-
CL_019.tif

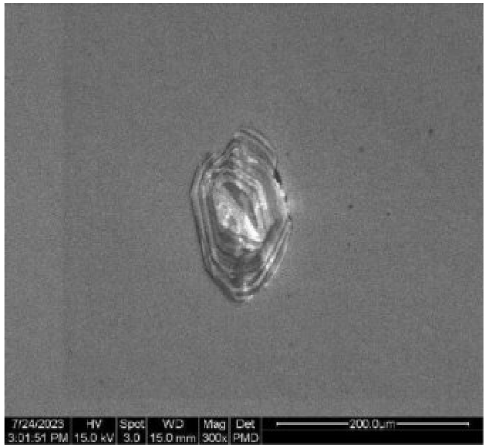
CG23CH01-
CL_020.tif



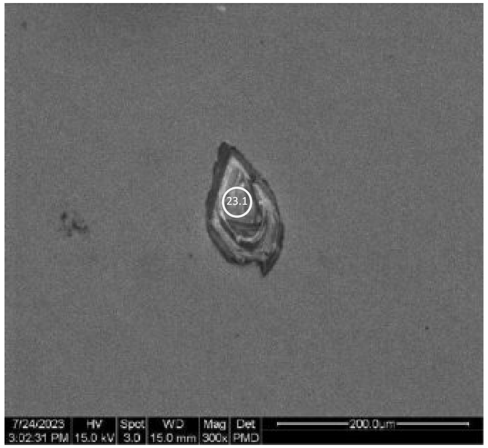
CG23CH01-
CL_021.tif



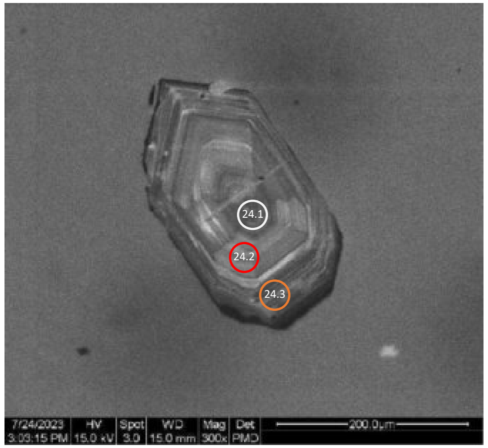
CG23CH01-
CL_022.tif



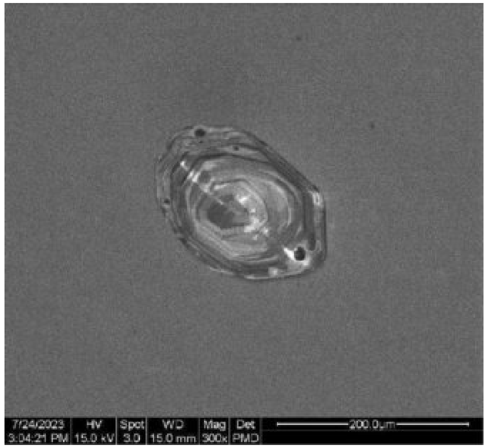
CG23CH01-
CL_023.tif



CG23CH01-
CL_024.tif

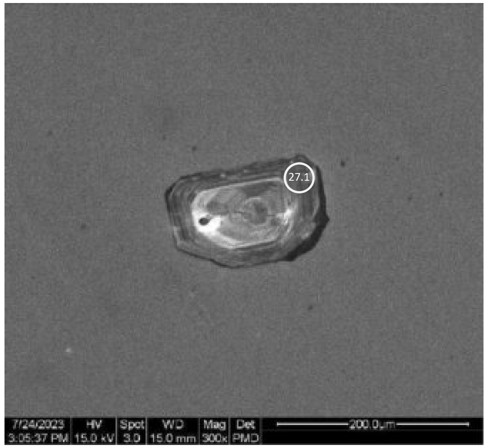


CG23CH01-
CL_025.tif



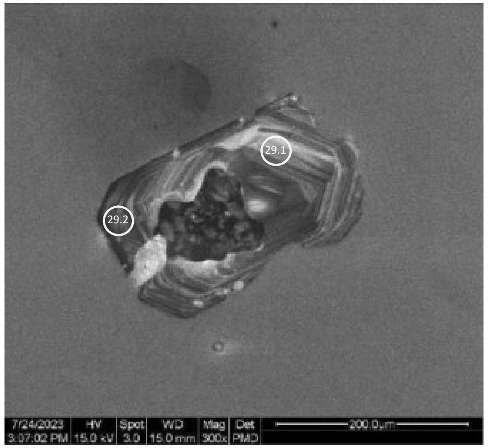
CG23CH01-
CL_026.tif

CG23CH01-
CL_027.tif

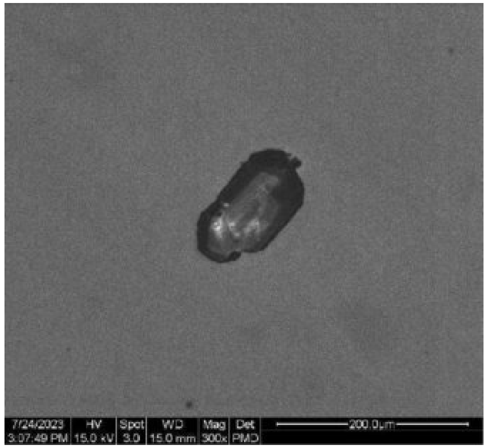


CG23CH01-
CL_028.tif

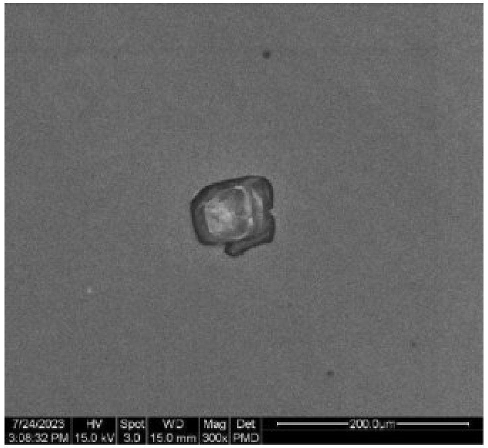
CG23CH01-
CL_029.tif



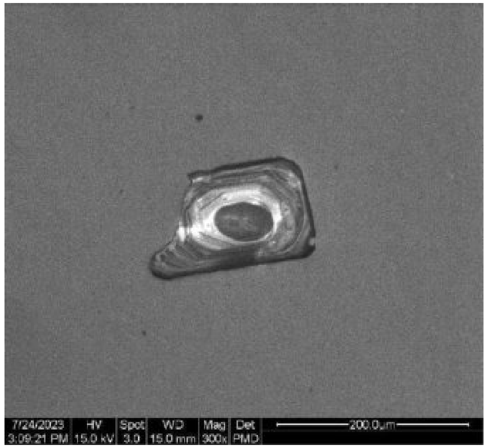
CG23CH01-
CL_030.tif



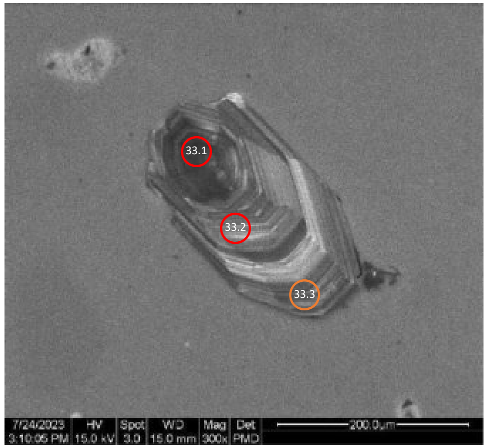
CG23CH01-
CL_031.tif



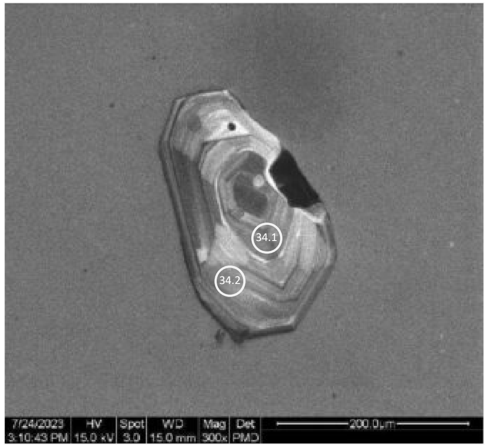
CG23CH01-
CL_032.tif



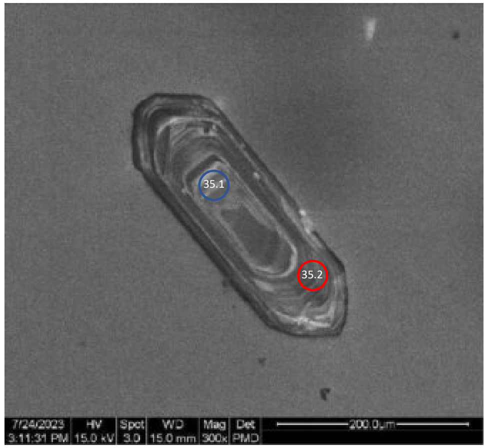
CG23CH01-
CL_033.tif



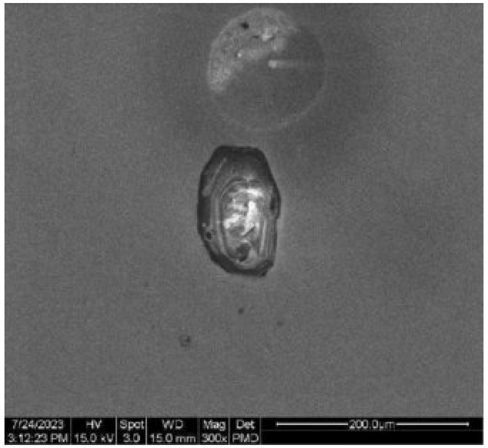
CG23CH01-
CL_034.tif



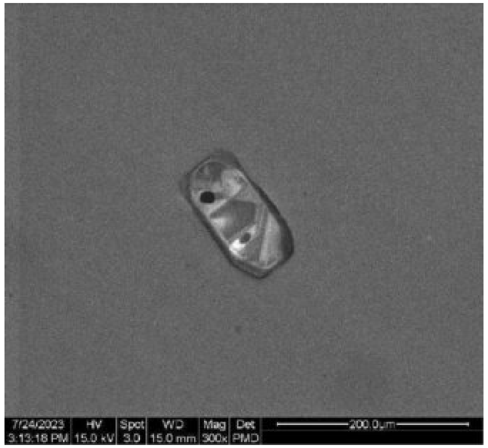
CG23CH01-
CL_035.tif



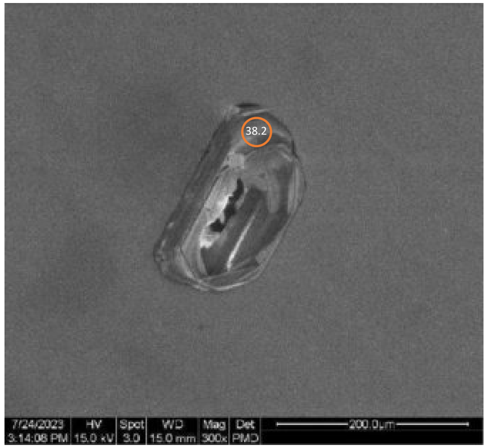
CG23CH01-
CL_036.tif



CG23CH01-
CL_037.tif

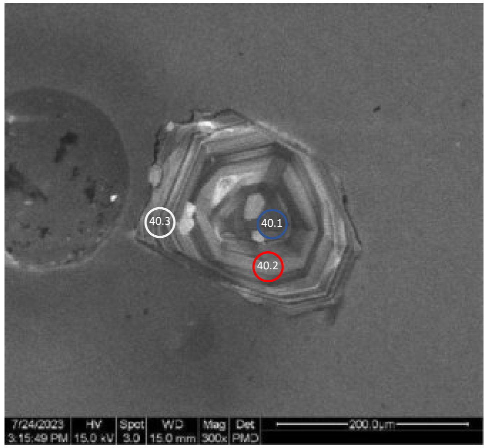


CG23CH01-
CL_038.tif

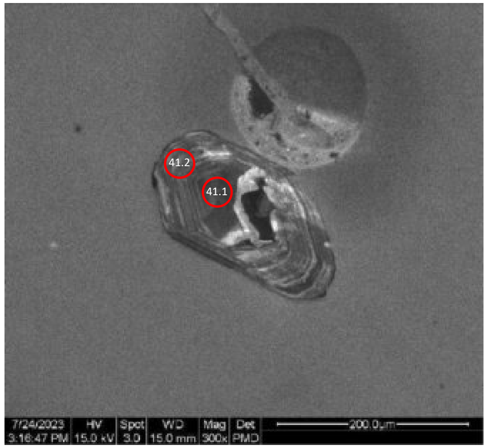


CG23CH01-
CL_039.tif

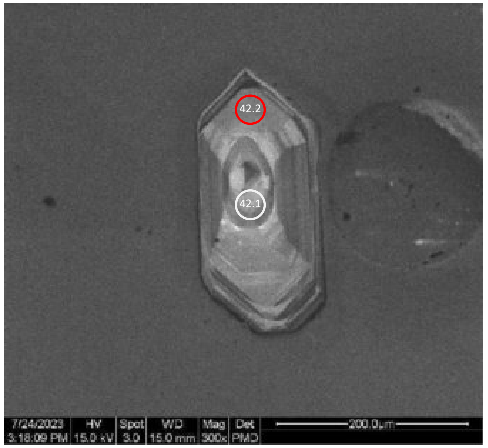
CG23CH01-
CL_040.tif



CG23CH01-
CL_041.tif

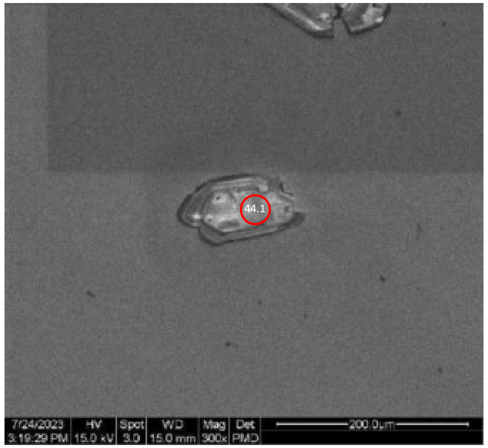


CG23CH01-
CL_042.tif

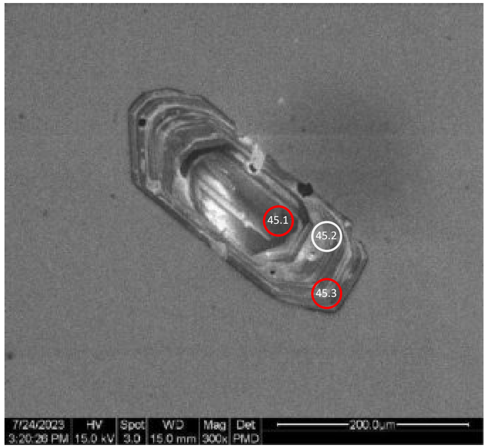


CG23CH01-
CL_043.tif

CG23CH01-
CL_044.tif

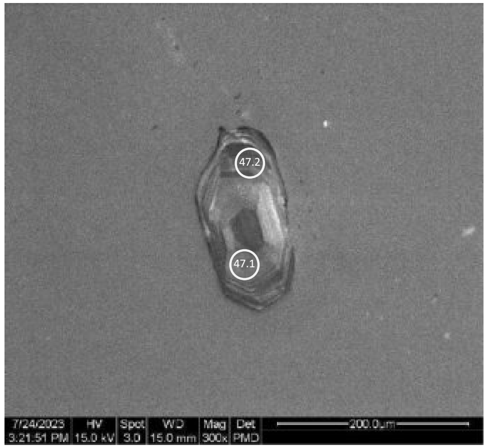


CG23CH01-
CL_045.tif



CG23CH01-
CL_046.tif

CG23CH01-
CL_047.tif



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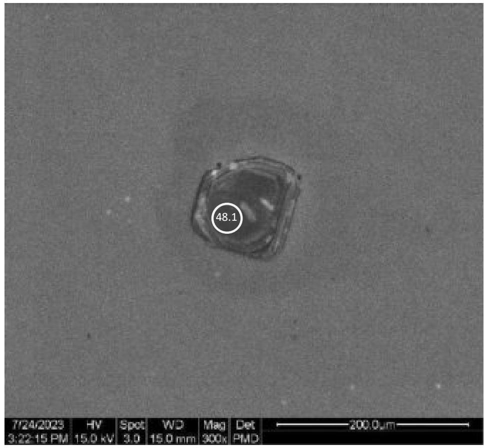

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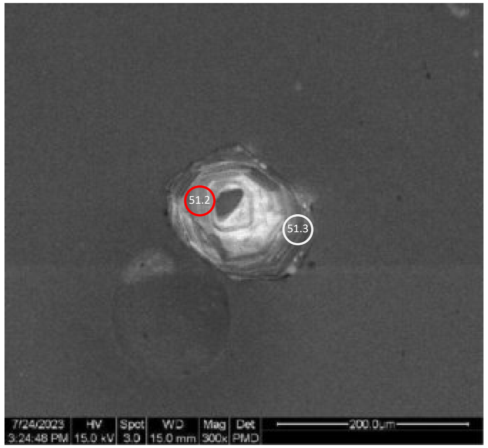

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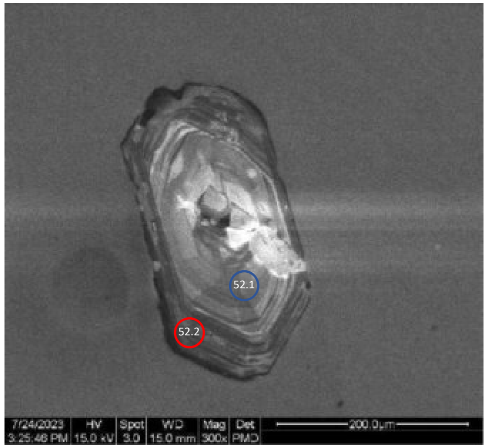

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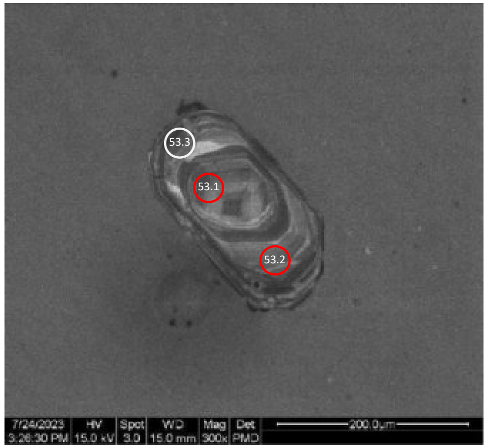

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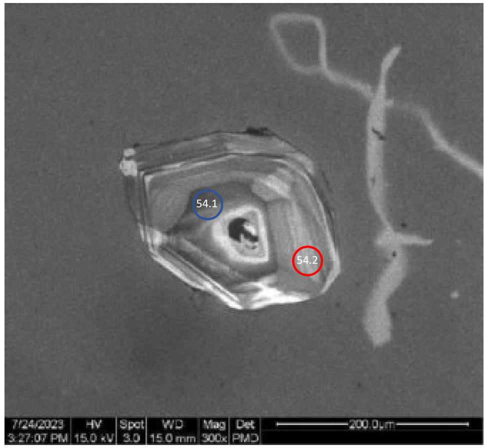

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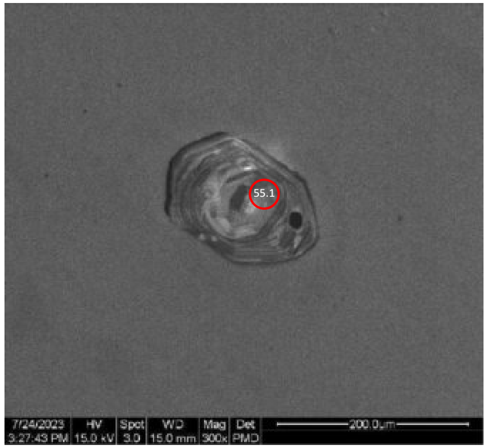

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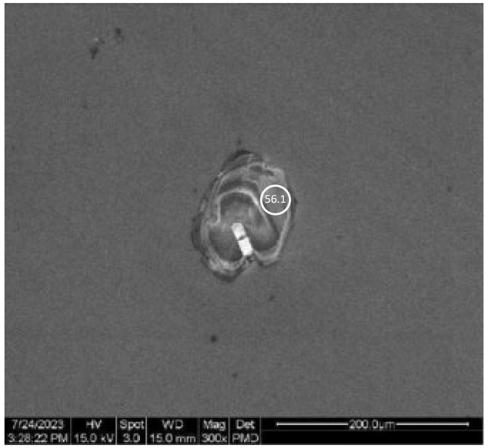

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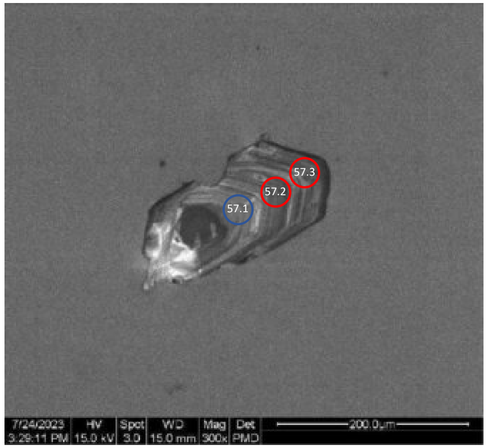

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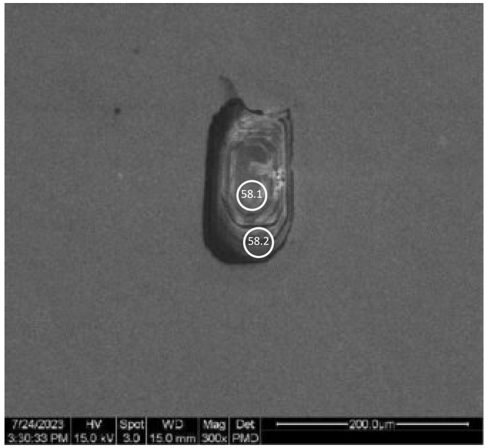

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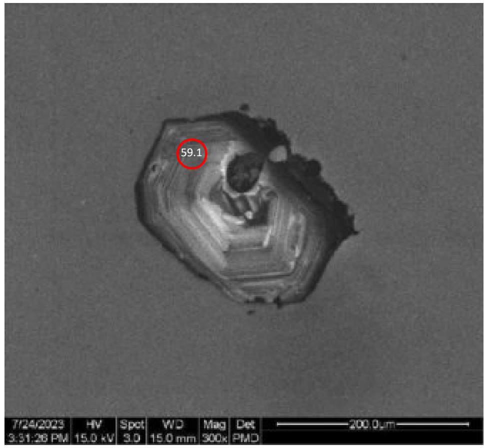

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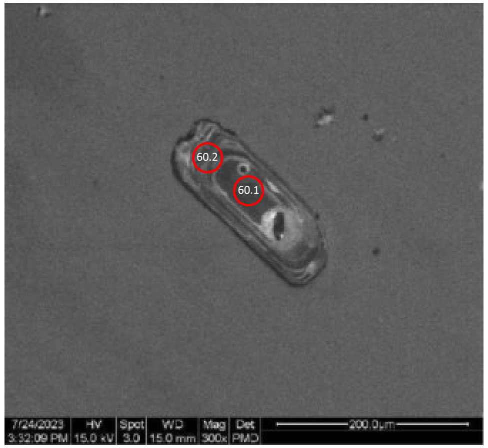

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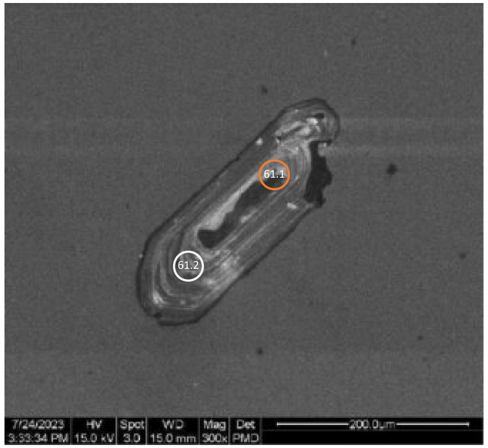

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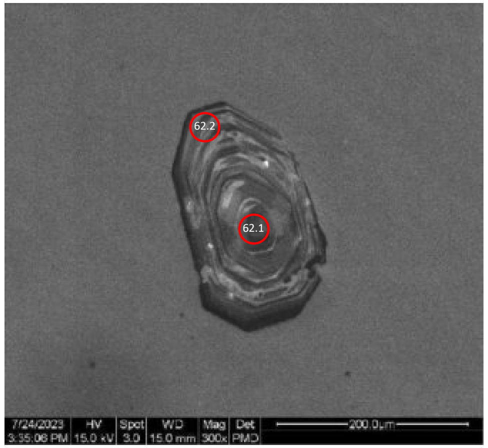

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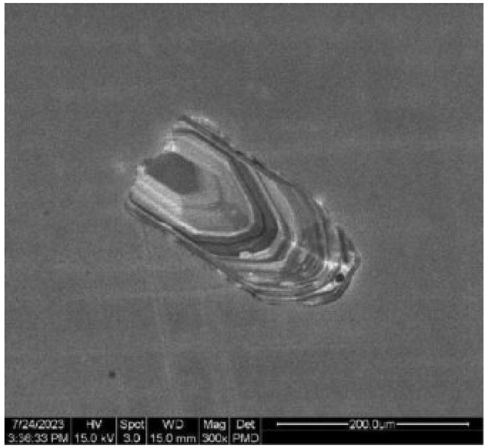

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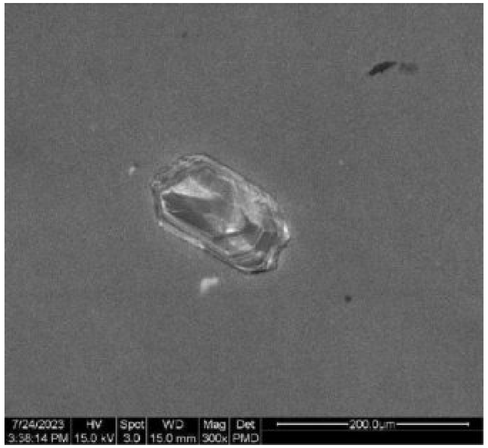

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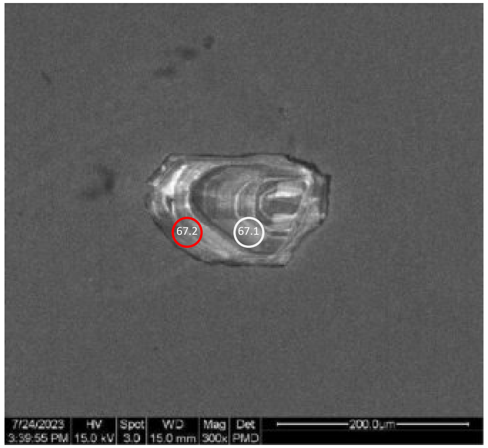

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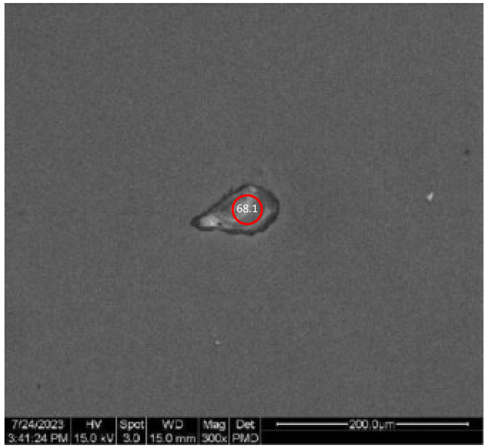

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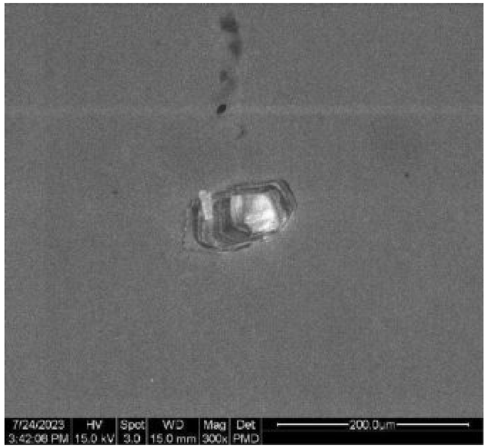

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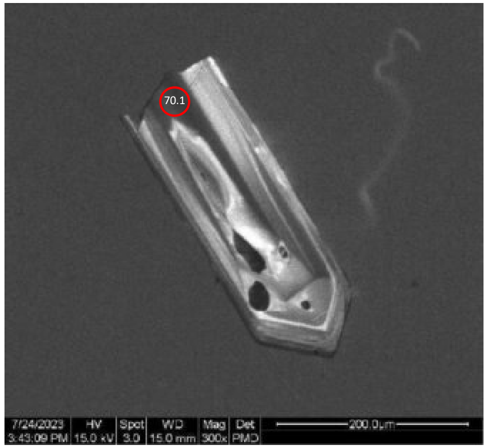

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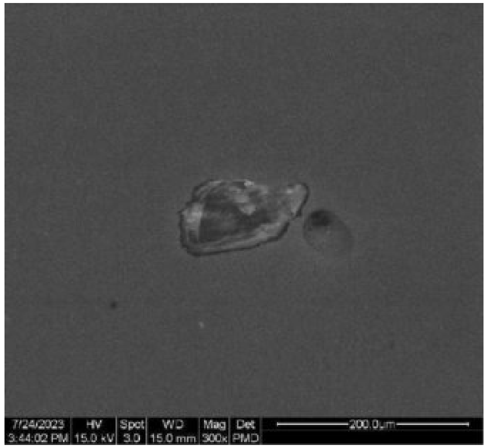

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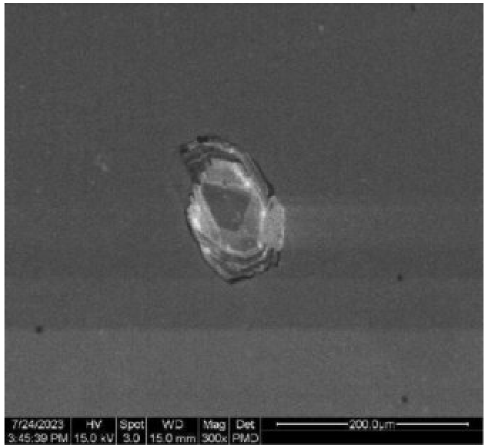

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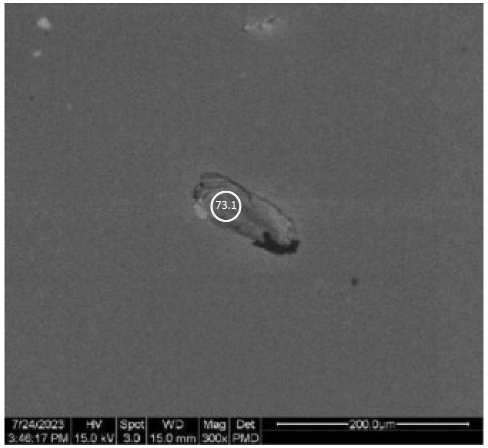


Pb loss zircons (i.e., zircons excluded from emplacement age calculation based on potential partial Pb loss)

Emplacement zircons (i.e., zircons included in emplacement age calculation)

Antecrystic zircons (i.e., slightly older zircons with textural similarity to emplacement grains and < 425 Ma)

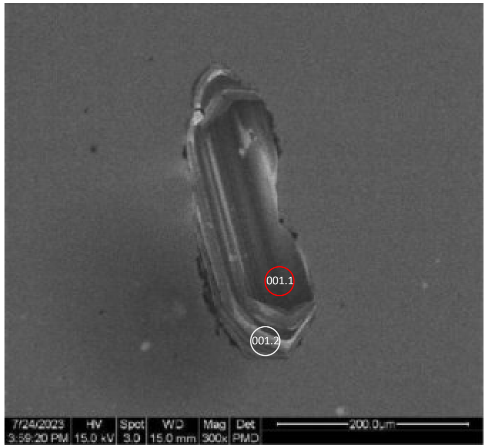
Xenocrystic zircons (i.e., grains with spots > 425 Ma)

Discordant points

Potential trace element spots for further study

Grains with no spots/reference points were not analysed in this study.

CG23CH02-
CL_001.tif



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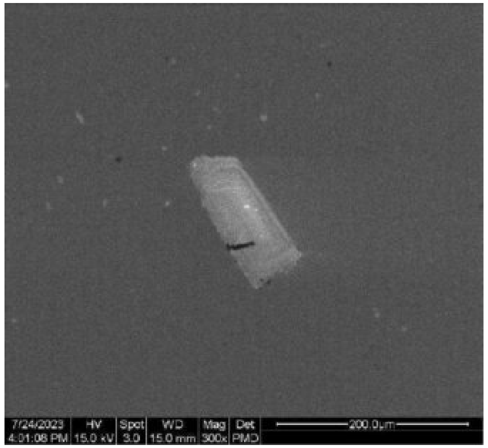

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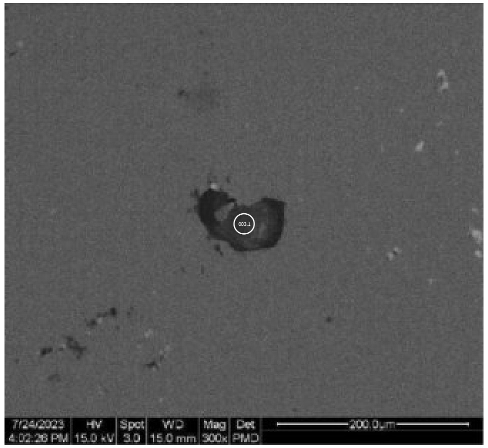

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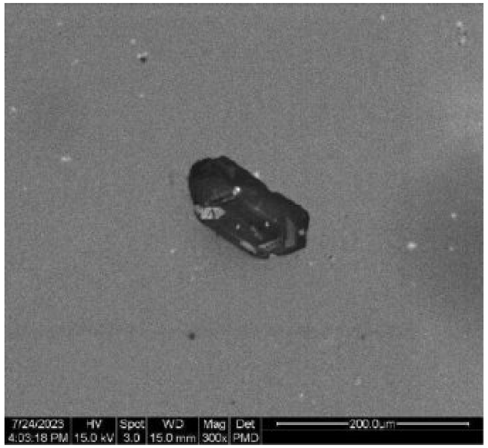

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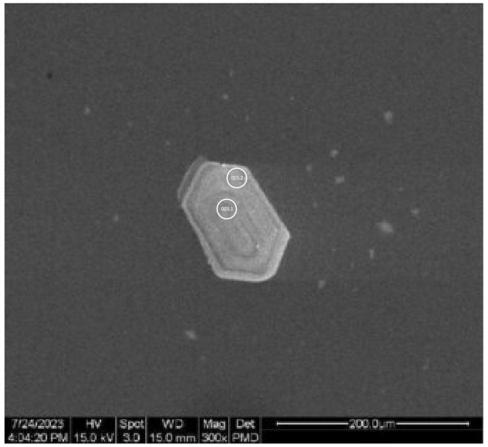

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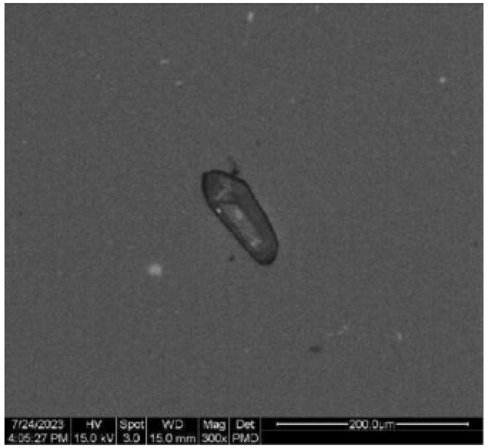

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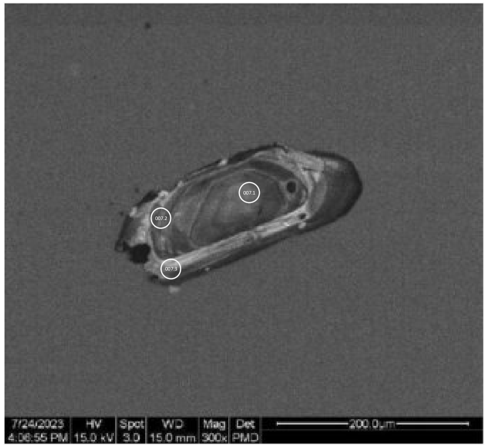

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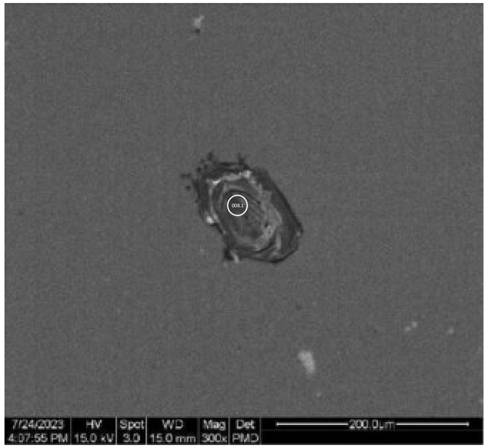

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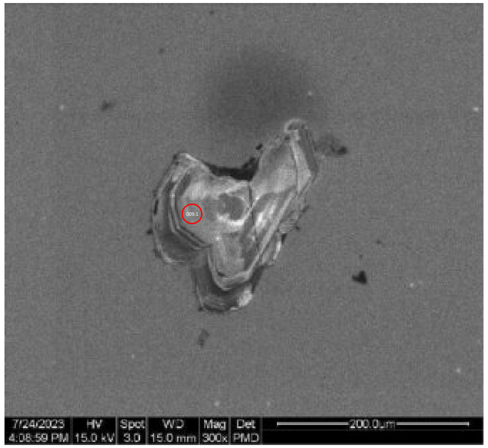

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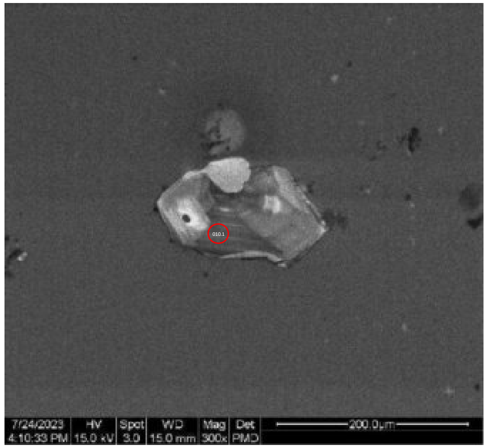

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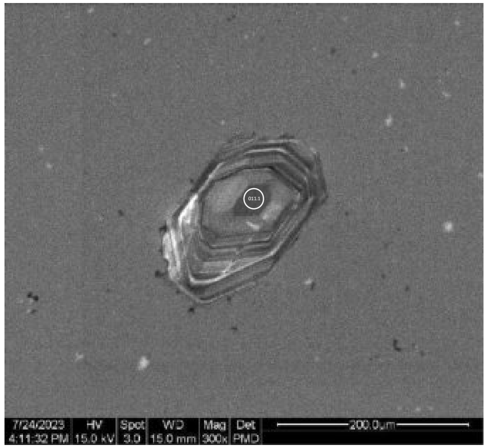

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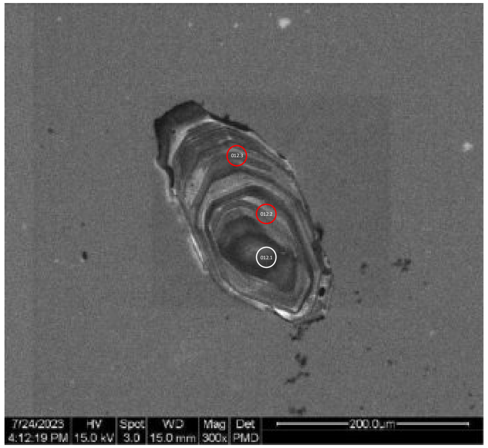

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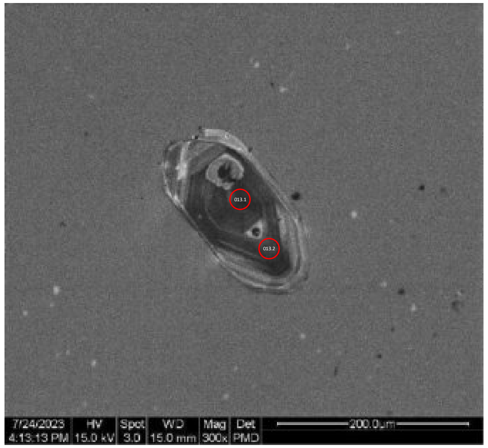

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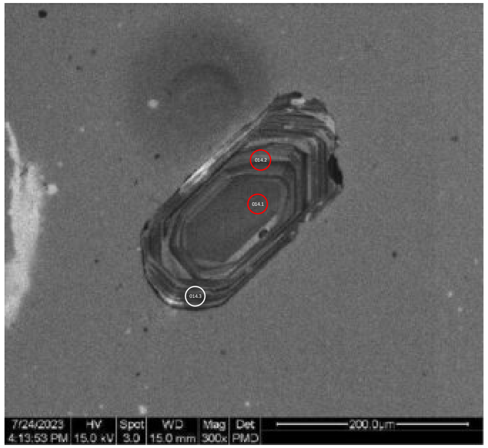

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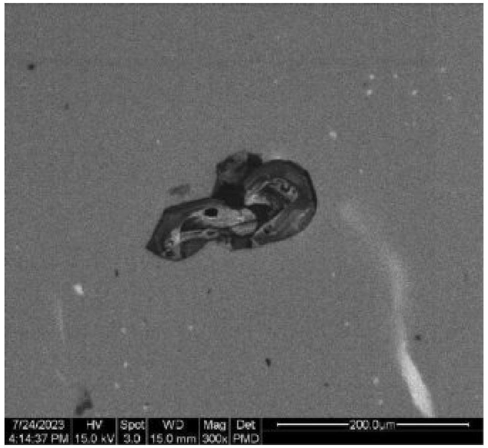

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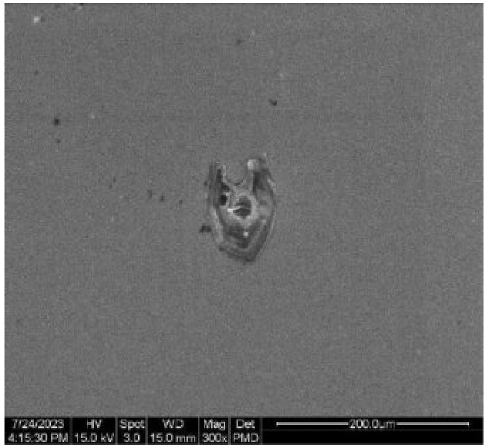

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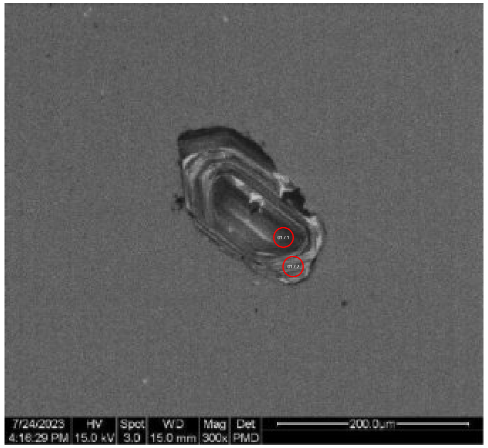

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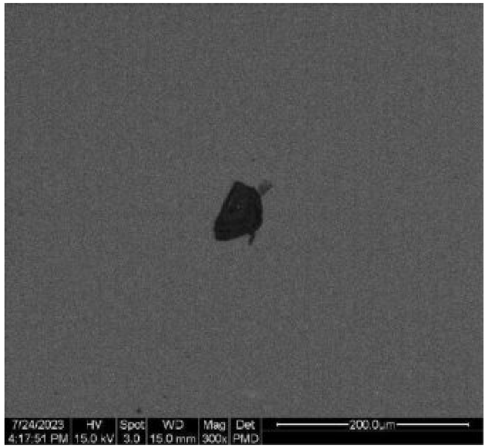

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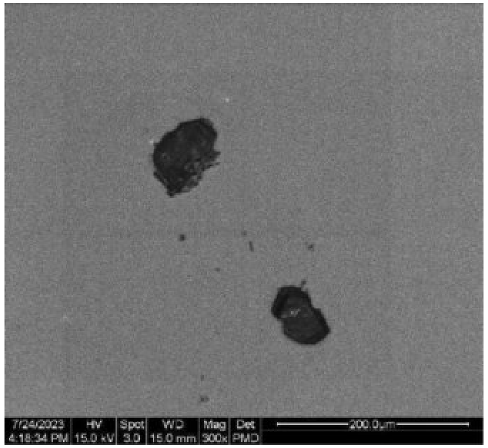

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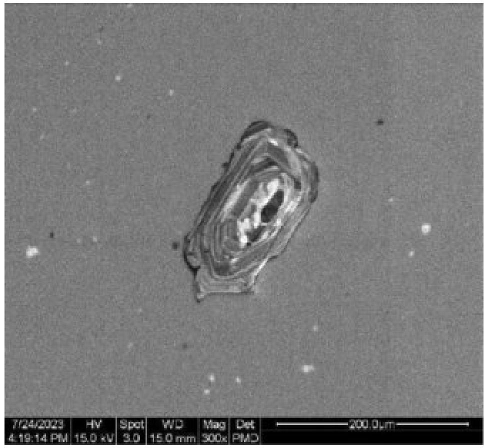

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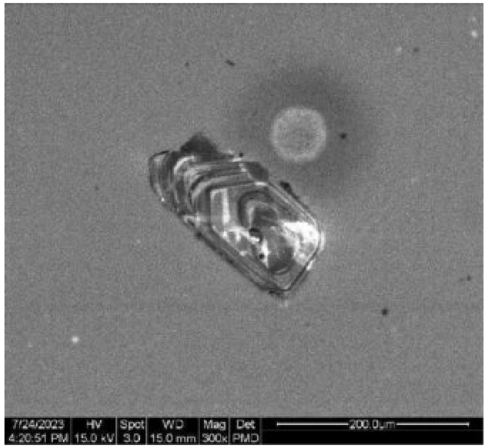

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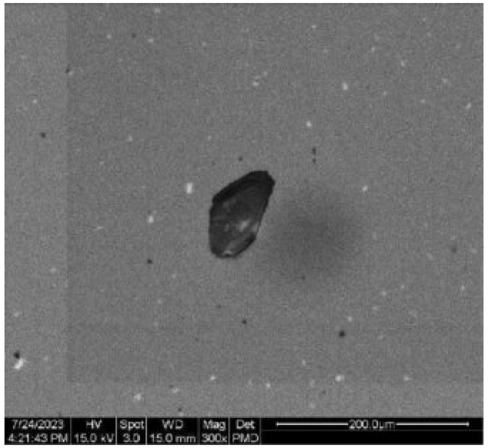

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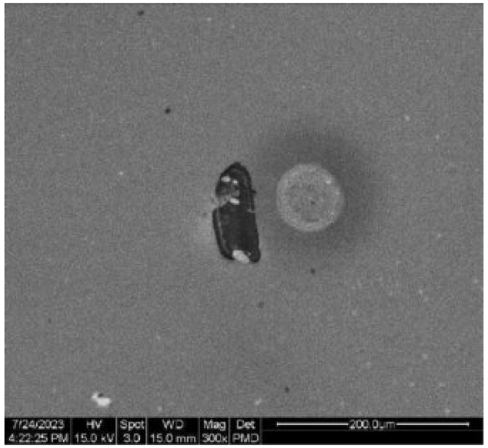

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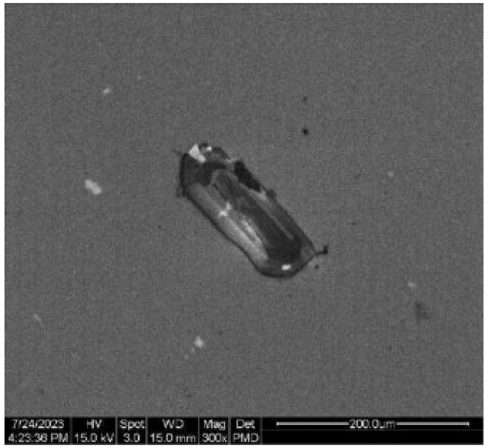

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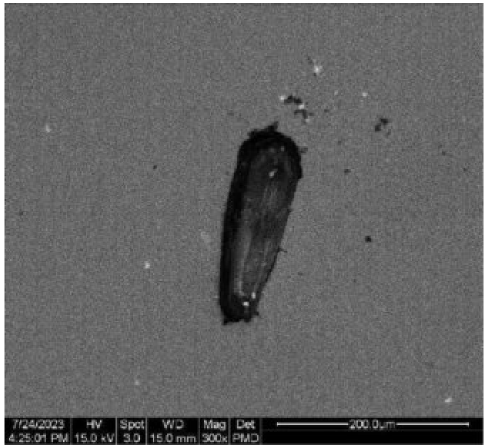

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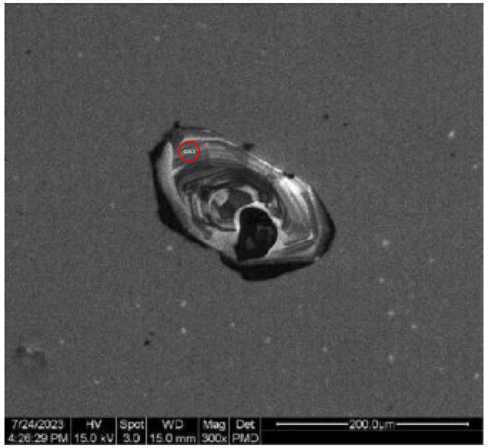

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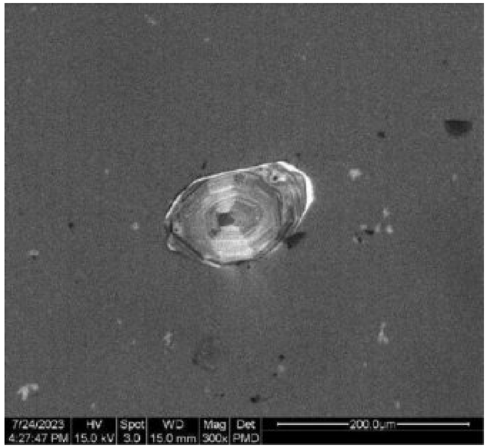

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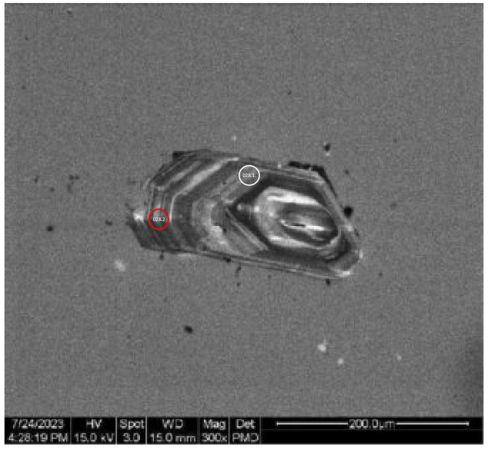

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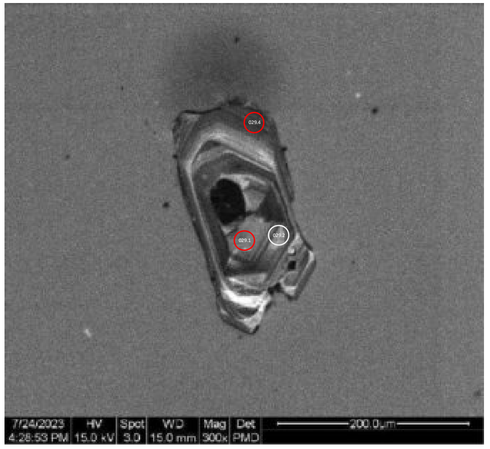

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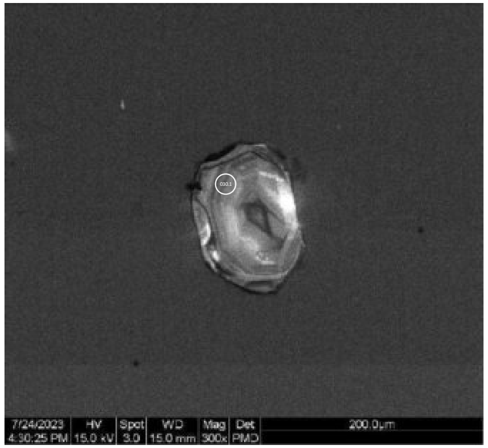

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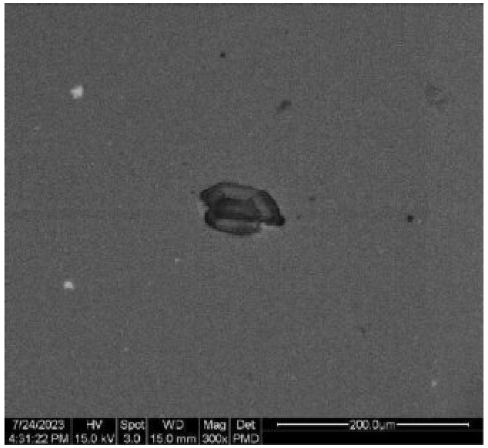

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CG23CH02-
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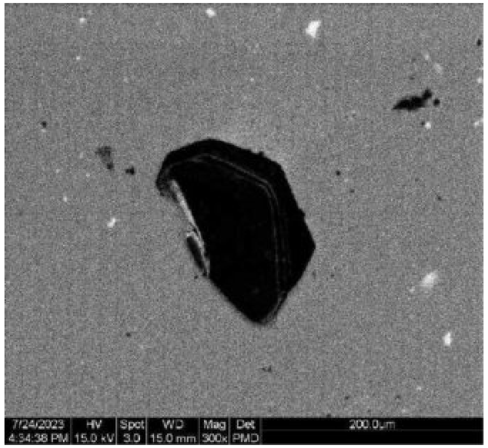

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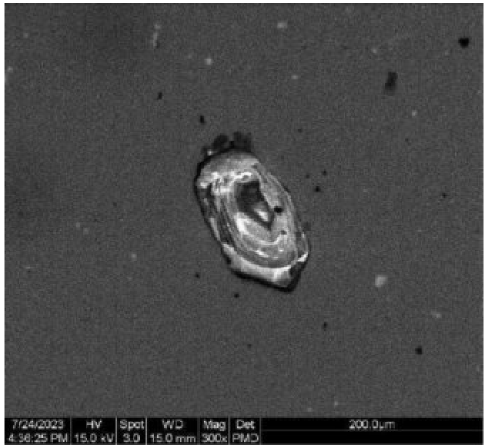

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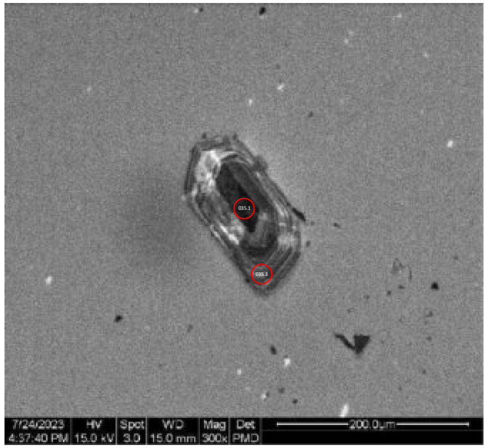

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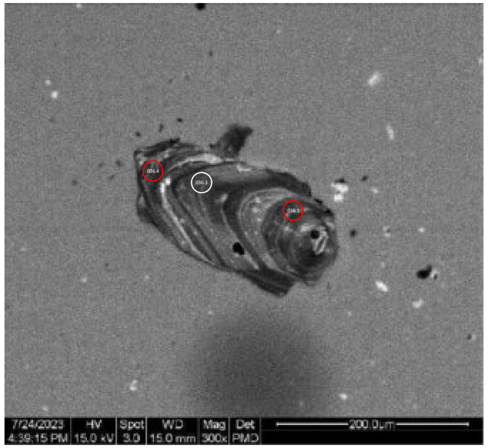

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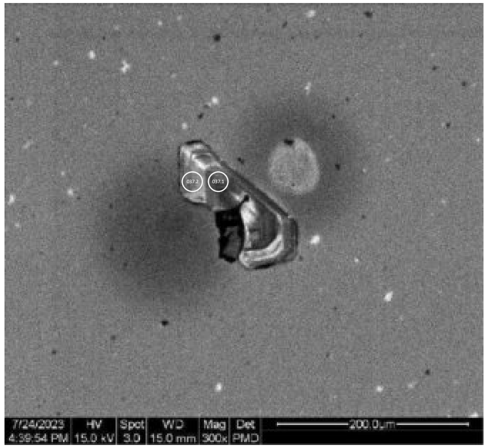

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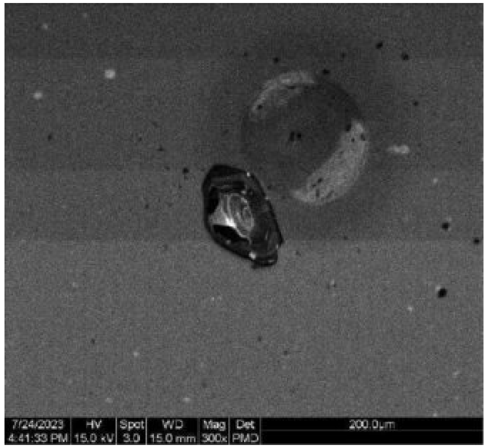

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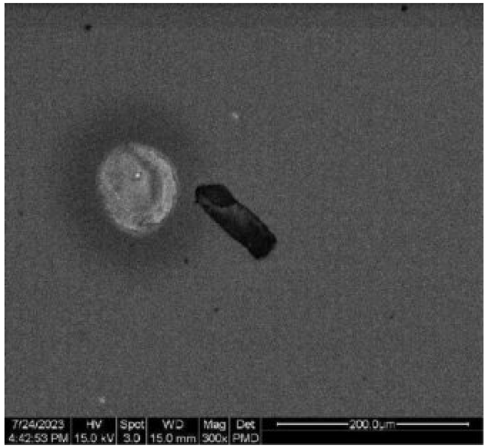

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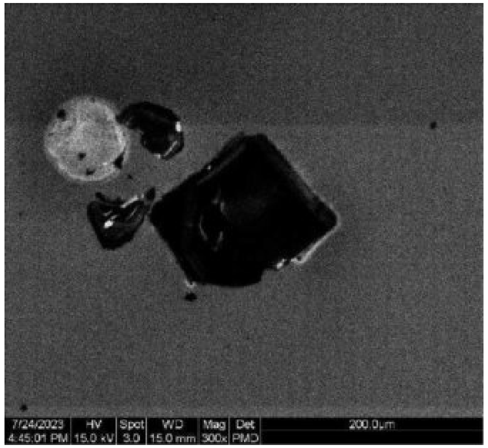

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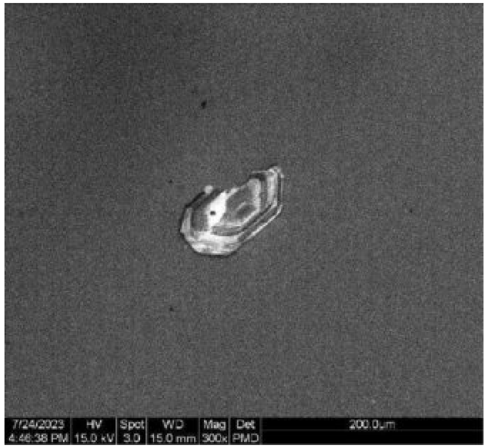

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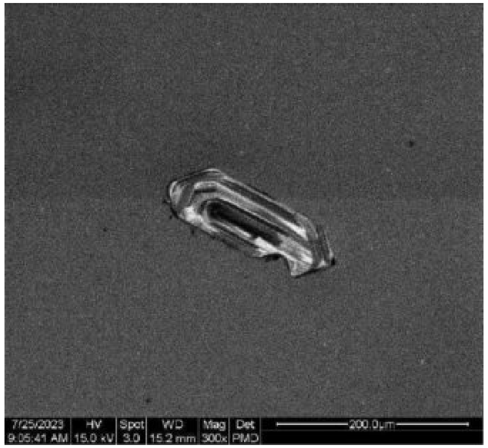

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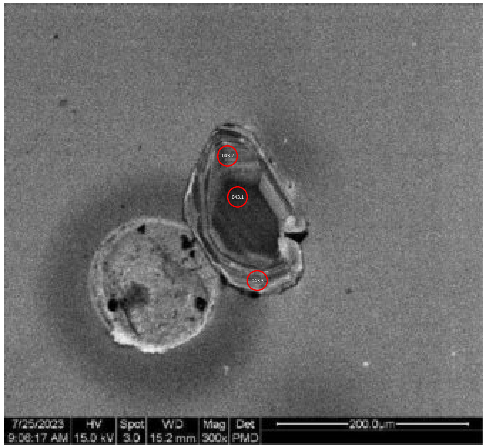

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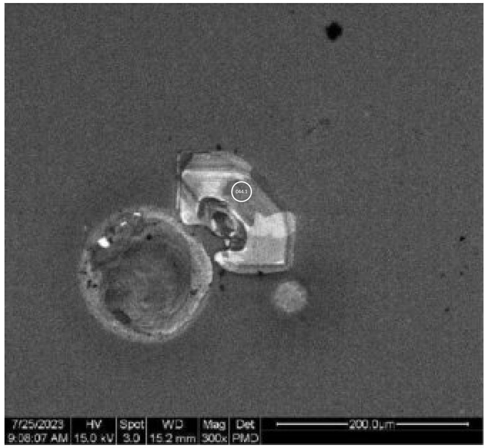

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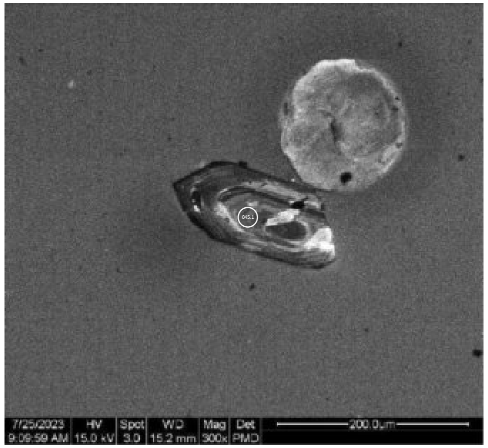

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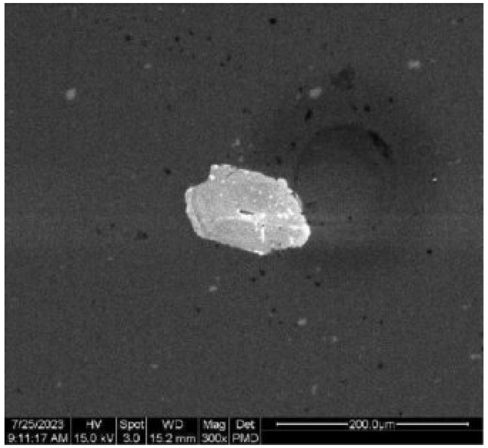

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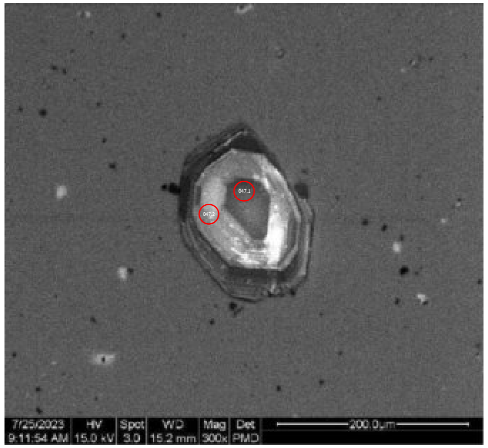

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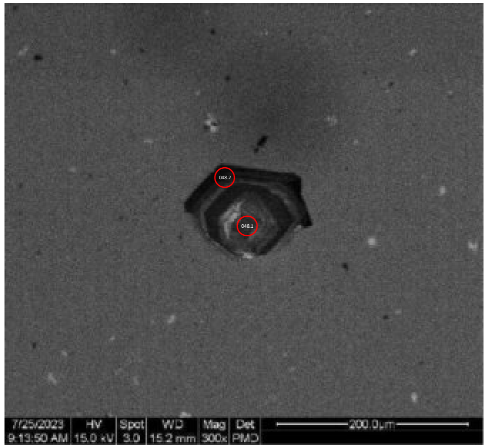

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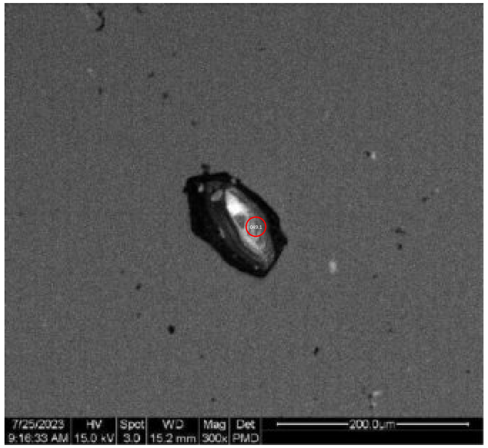

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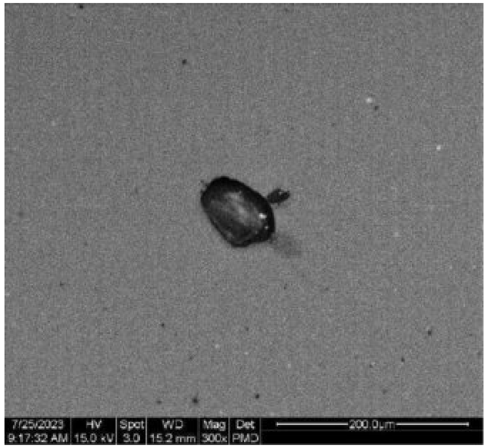

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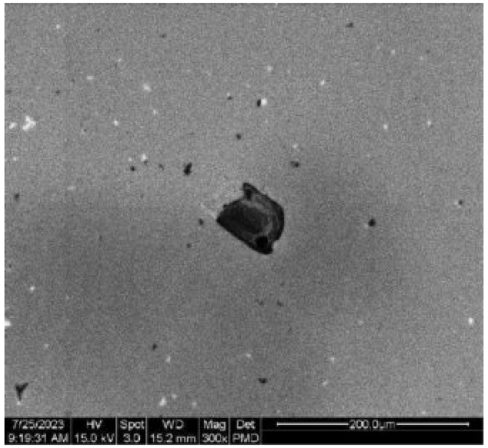

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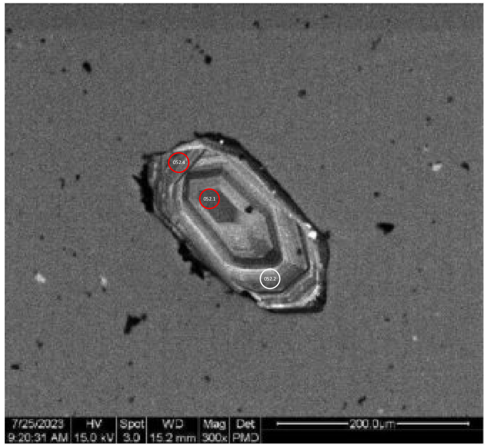

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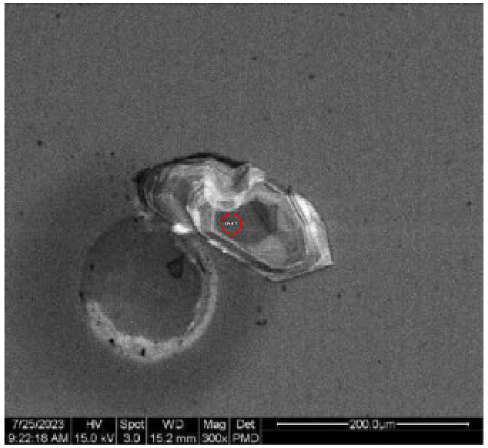

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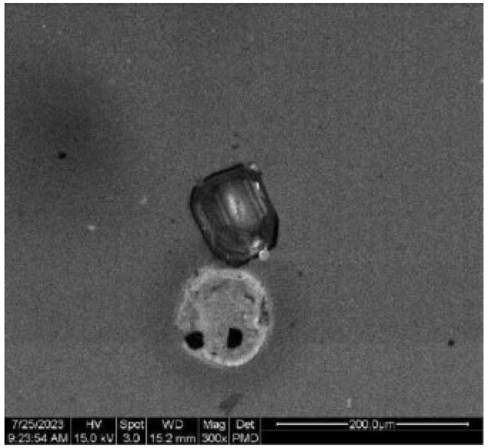

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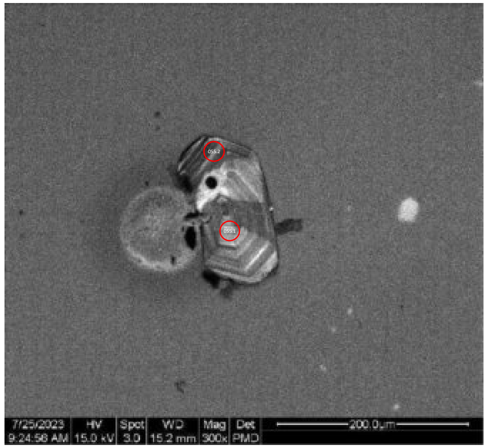

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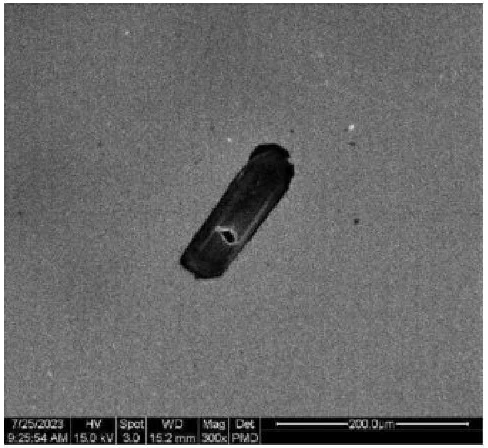

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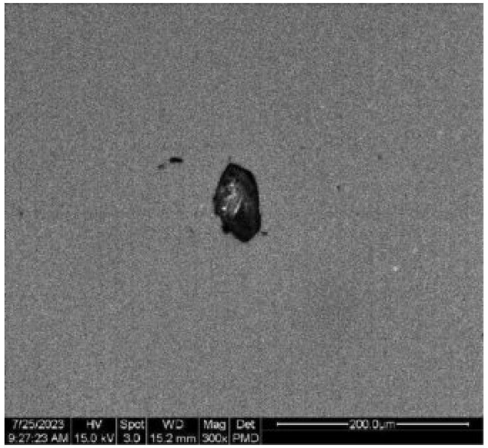

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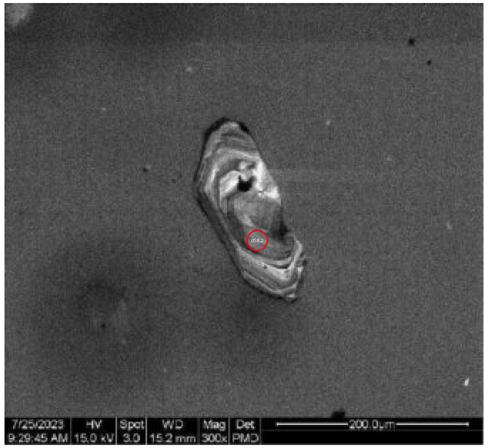

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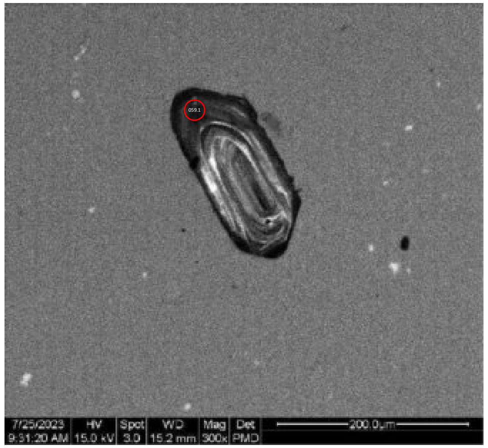

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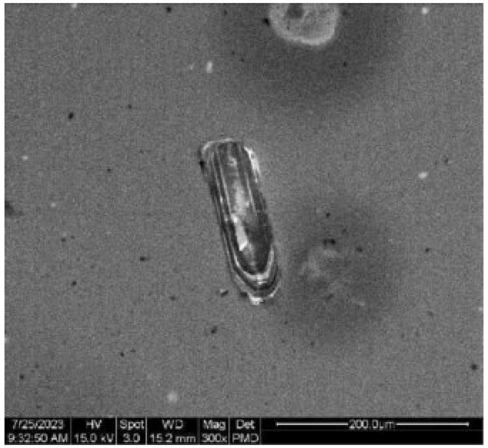

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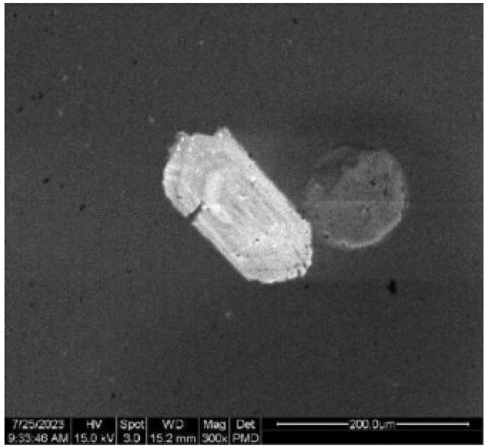

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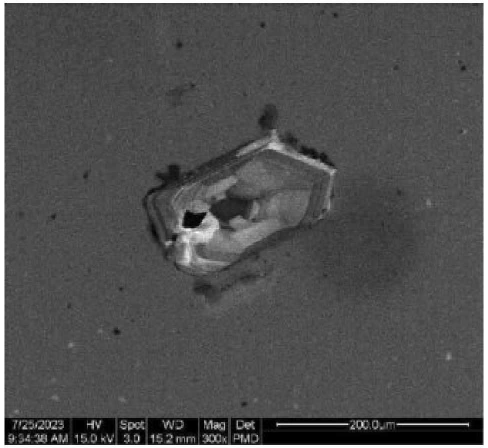

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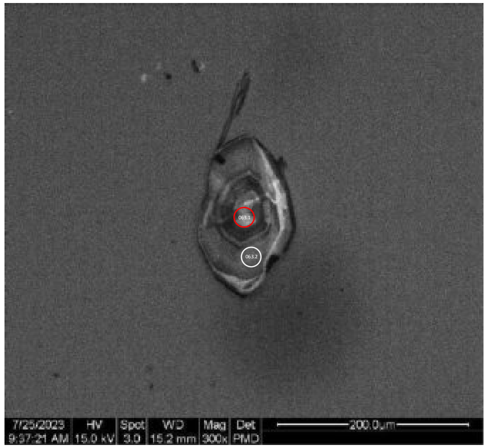

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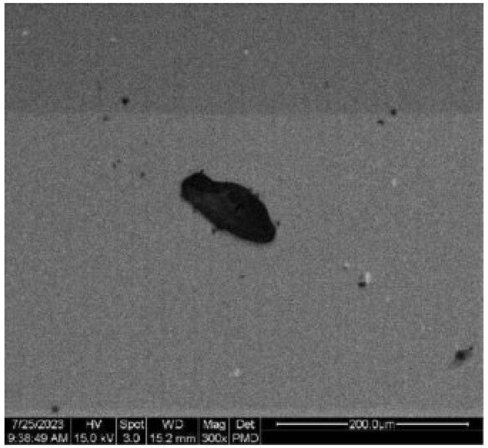

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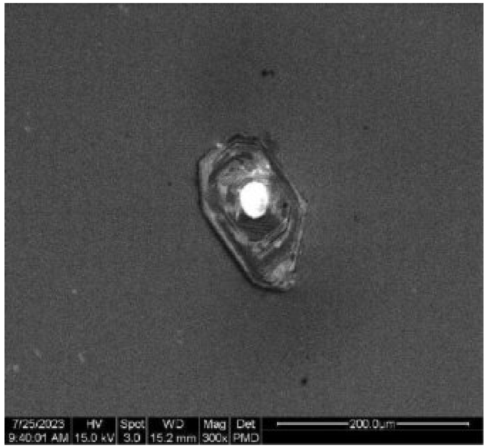

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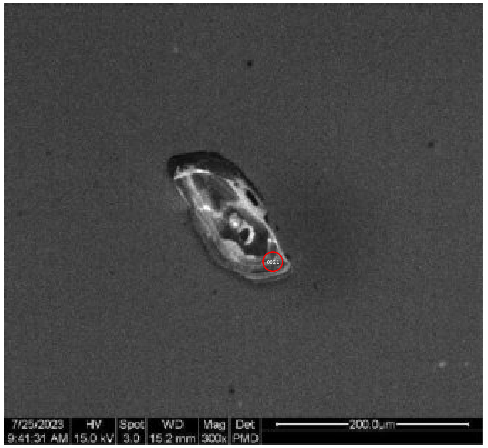

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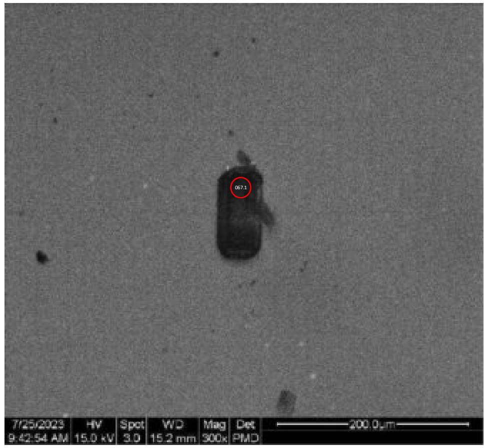

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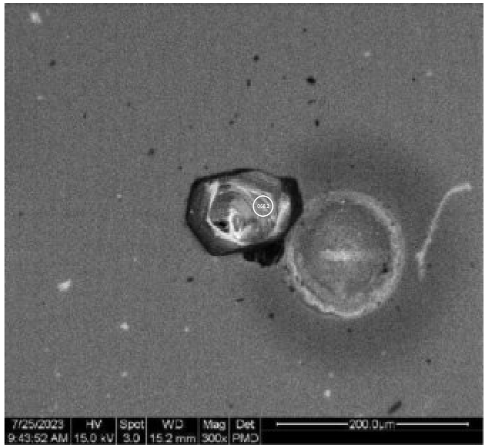

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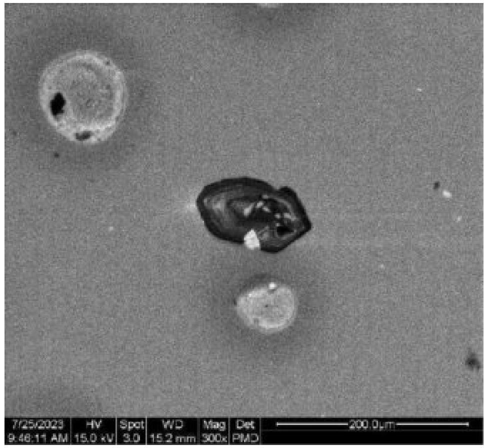

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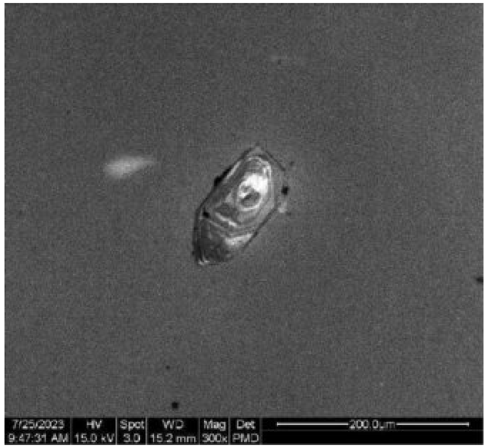

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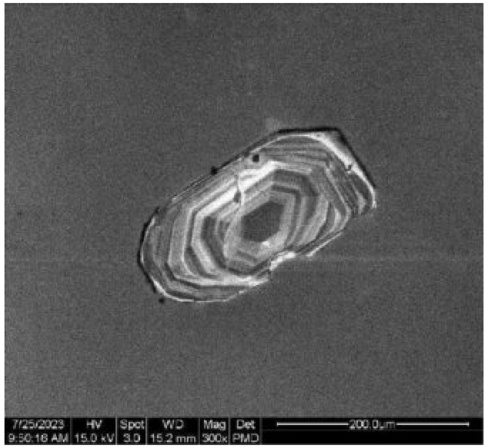

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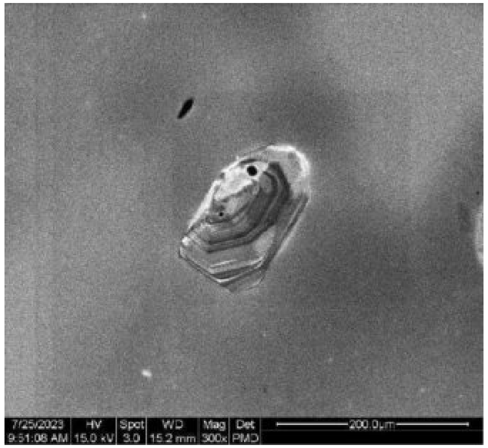

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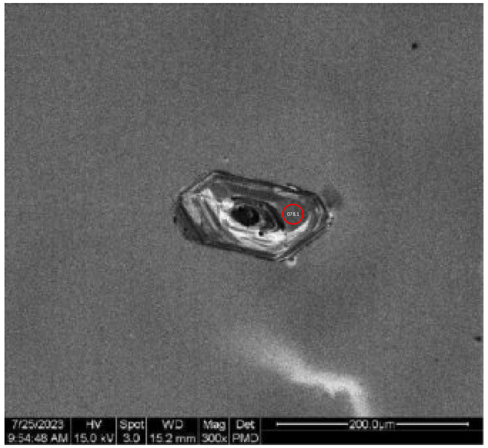

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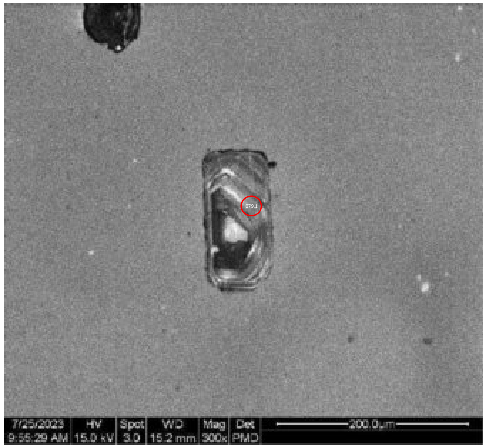

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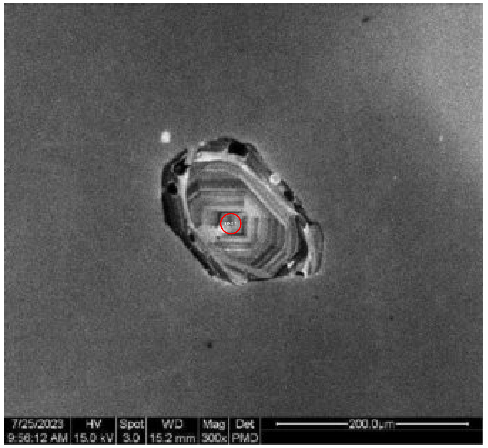

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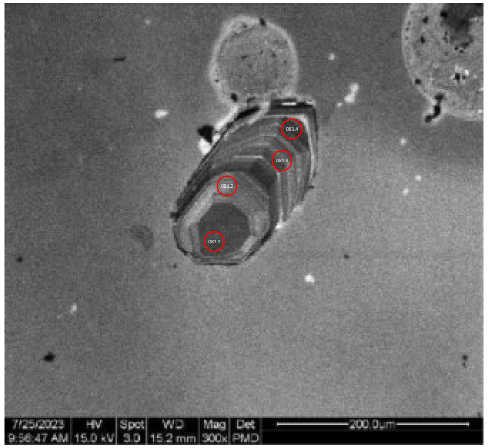

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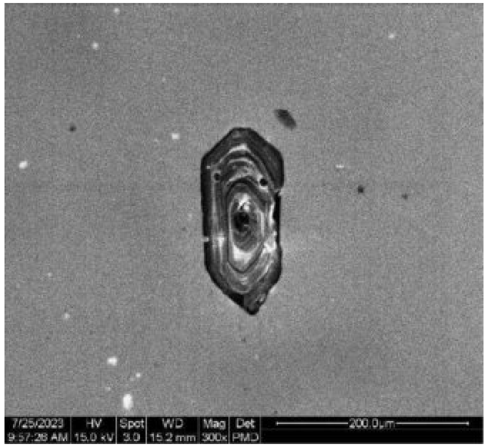

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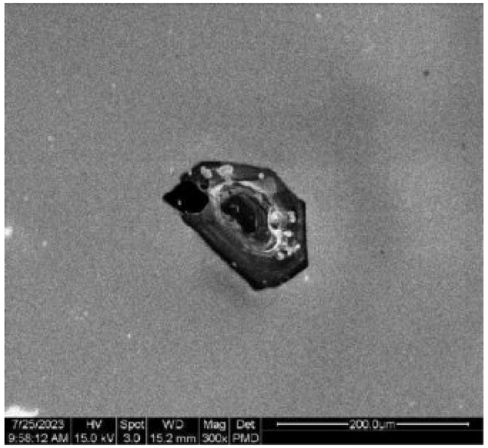

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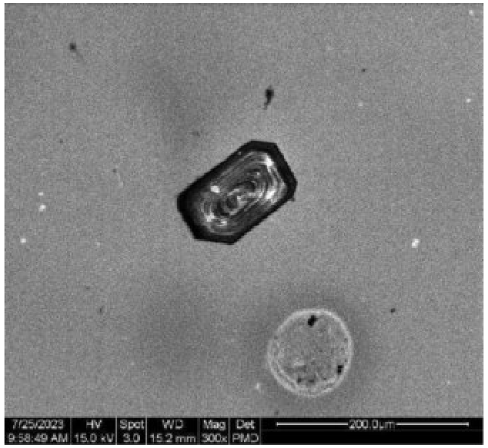

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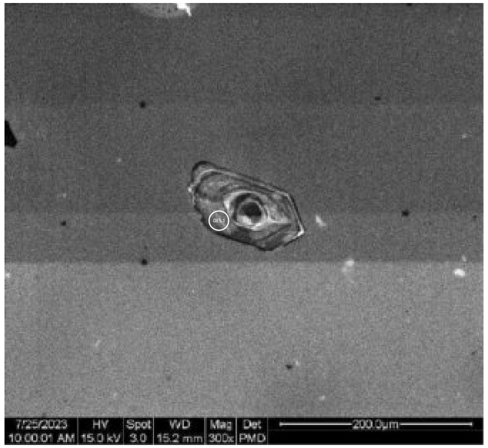

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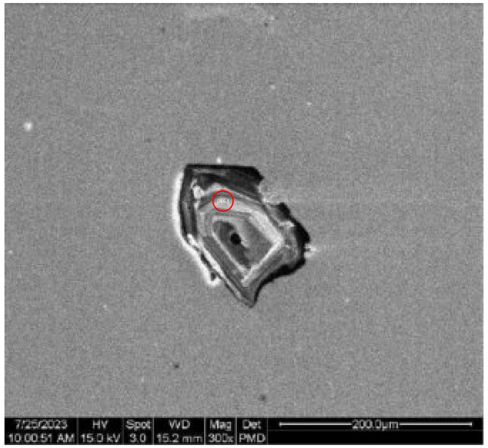

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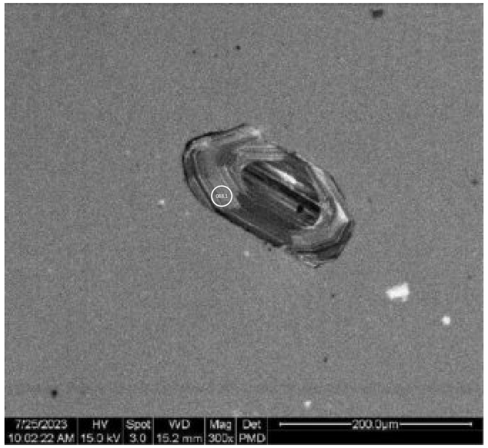

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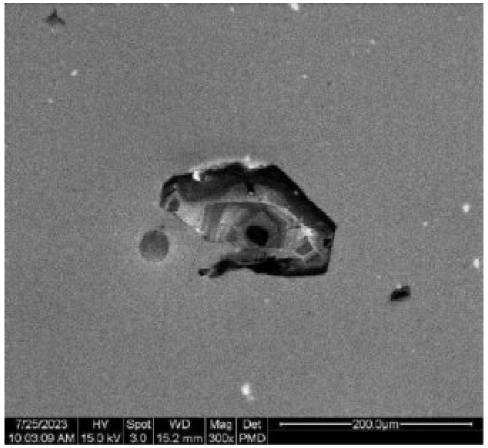

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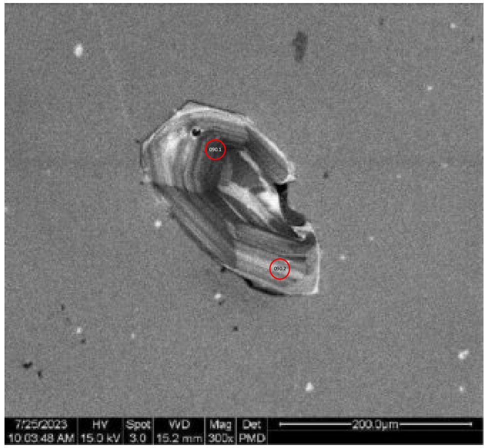

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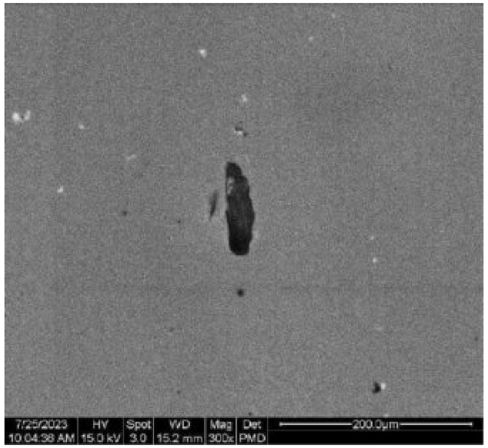

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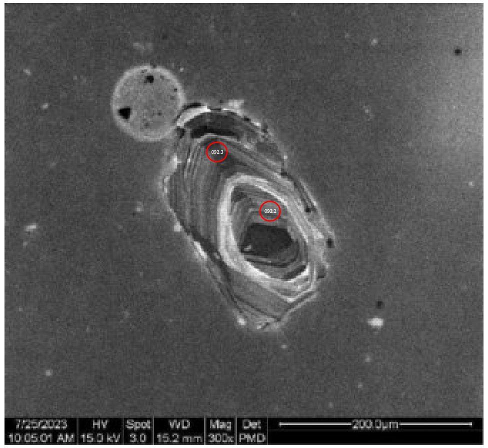

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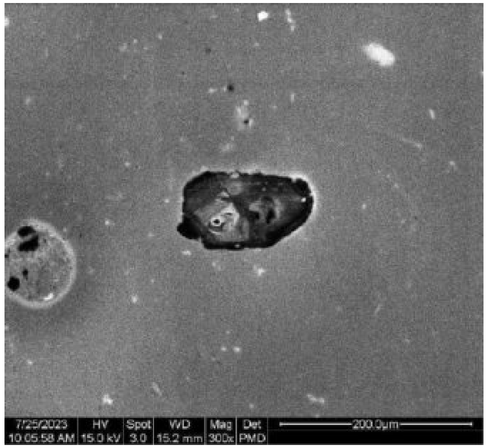

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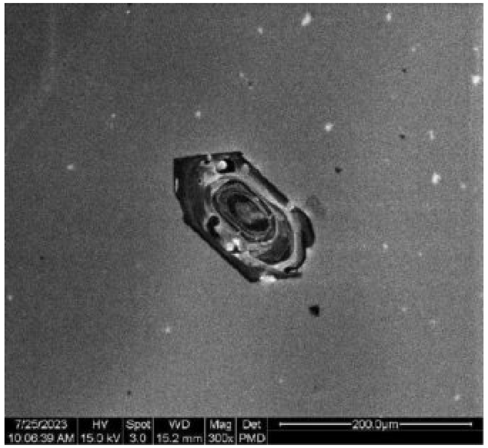

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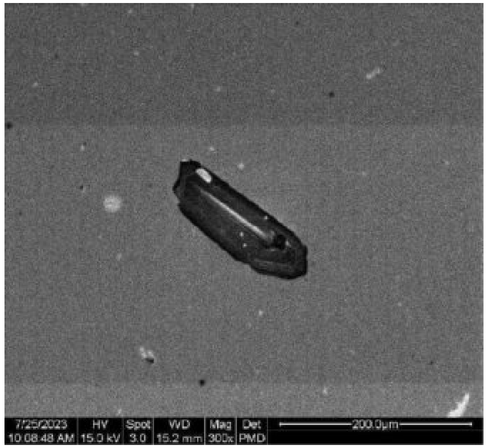

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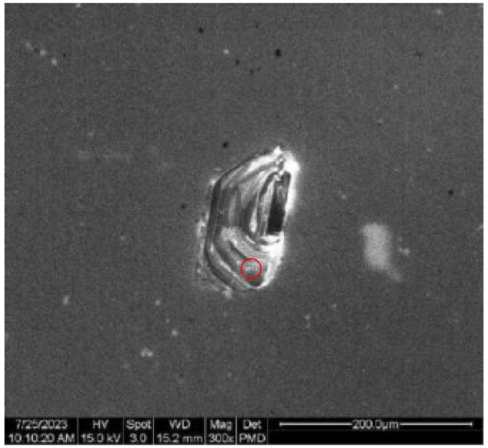

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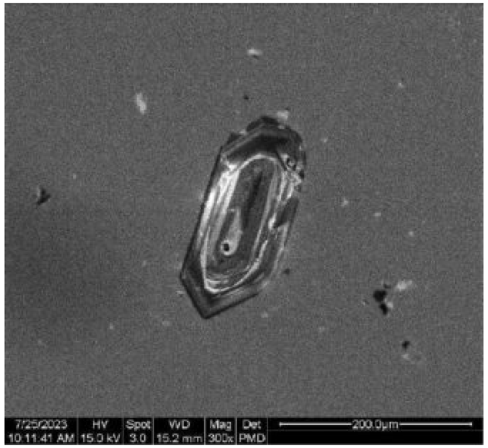

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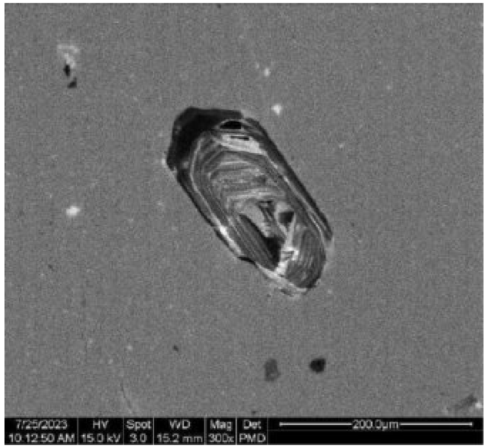

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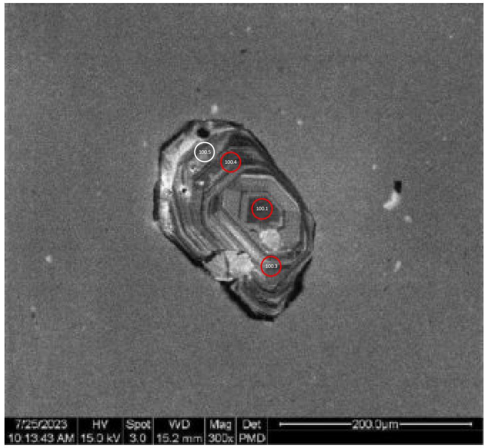

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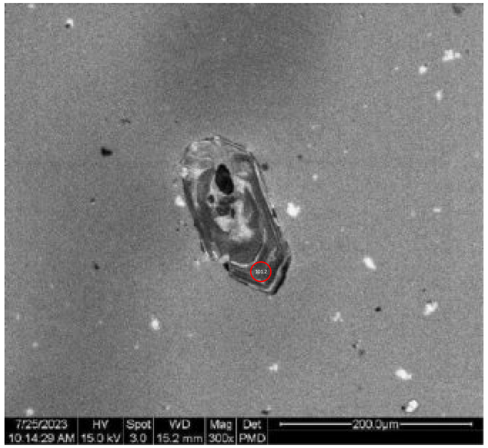

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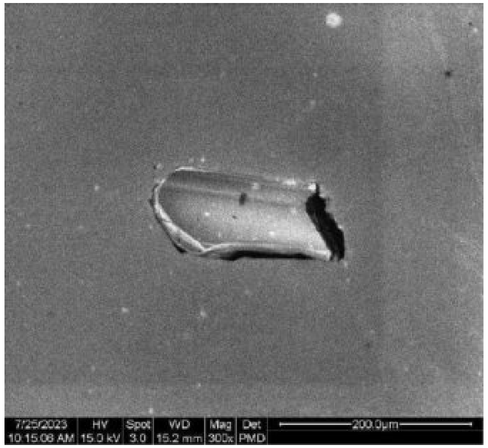

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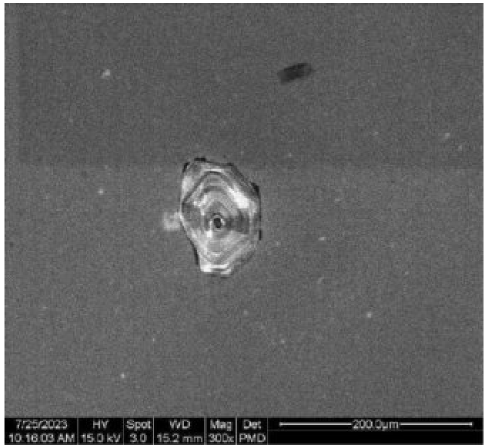

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Supplementary Item C – zircon textural descriptions

Textural descriptions are provided for all zircon grains (i.e., concordant, discordant, those grains not deemed suitable for LA-ICP-MS) remaining after the grinding/polishing stage for each sample. The grain shape (e.g., euhedral, subhedral, anhedral), zoning pattern (e.g., sector or oscillatory zoning) and other textural features including fracturing (e.g., lightly, moderately or heavily fractured) and, where applicable, alteration, recrystallisation and resorption are reported for each grain. For those grains deemed suitable for LA-ICP-MS analysis, the location of the laser spot is provided, where MO = magmatic overgrowth and describes the complexly zoned overgrowth around an 'inherited' or 'magmatic' core. Two tables are provided for each sample. The first texturally characterises all concordant grains (i.e., those included in emplacement age calculations, categorised into Pb loss, emplacement, antecrystic and xenocrystic groups where appropriate) and the second describes discordant grains (i.e., grains analysed by LA-ICP-MS and filtered as discordant at isoplot stage) and those grains not deemed suitable for laser ablation (e.g., too fractured/altered/small, too many overlapping zones etc). The 'Zircon ID' includes the grain number (e.g., sample_9.X) and spot number (e.g., sample_9.1) as recorded in the processed LA-ICP-MS spreadsheets **(See Supplementary Item D).**

1. Bengairn zircons (BG01)

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., fractures, alteration, resorption etc)	Location of laser spot
b1_9.2	408.7	3.9	405.7	9.9	Euhedral	Prominent oscillatory zoning in magmatic overgrowth (= outer zones). Zoning absent in *(inherited?)* core.	N/A	MO
b1_9.3	417.3	4.4	415.0	10.8				Core
b1_14.1	411.6	6.0	412.7	14.9	Subhedral	Prominent oscillatory zoning in magmatic overgrowth. Zoning absent in *(inherited?)* core.	Minor fracturing and alteration.	MO
b1_19.1	410.2	4.6	411.2	11.4	Euhedral	Faint oscillatory zoning in small magmatic overgrowth. Zoning absent in *(inherited?)* core.	Heavily fractured throughout. *Evidence for resorption along core-rim boundary (?).*	Core
b1_21.1	410.2	4.8	403.8	10.0	Euhedral	Faint oscillatory and sector zoning in magmatic overgrowth. Prominent oscillatory zoning in *(inherited?)* core.	N/A	MO
b1_22.1	402.1	5.9	404.7	14.2	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Faint patchy irregular zoning in *(inherited?)* core.	Moderately fractured.	MO
b1_26.1	425.5	5.4	433.8	9.4	Euhedral		N/A	MO

b1_26.2	416.0	4.9	420.2	11.7		Prominent oscillatory zoning in magmatic overgrowth. Faint patchy *(sector?)* zoning in *(inherited?)* core.		Core
b1_28.1	410.6	4.7	420.4	10.0	Euhedral	Prominent oscillatory zoning in multiple magmatic overgrowths around a central magmatic core.	N/A	Core
b1_29.1	408.5	6.8	406.7	16.1	Subhedral	Irregular zoning prominent throughout. No distinction between core and rim.	Moderately fractured. Complex internal structure, possibly inclusions.	N/A
b1_32.1	414.0	4.5	417.7	9.9	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Faint oscillatory zoning in core *(magmatic?).*	Moderately fractured.	MO
b1_32.2	426.4	6.6	426.3	17.0				Core
b1_45.1	414.0	4.1	419.2	10.7	Subhedral	Prominent oscillatory zoning in magmatic overgrowth. Zoning absent in core *(inherited?).*	N/A	Core
b1_45.2	415.8	4.2	405.9	14.0				MO

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other	Location of laser spot
b2_1.2	401.2	4.0	394.5	11.1	Subhedral (broken)	Oscillatory zoning prominent in magmatic overgrowth. Small core *(magmatic?)* absent of zoning.	N/A	Core
b2_3.1	401.8	3.6	403.6	7.7	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Zoning absent in *(inherited?)* core.	N/A	MO
b2_3.2	402.2	3.9	410.6	8.7				Core
b2_4.1	423.0	4.4	423.4	14.1	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Sector zoning and faint patchy oscillatory zoning in *(magmatic??)* core.	Moderately fractured. *Alteration possibly associated with this fracture.*	Core
b2_7.1	414.7	4.3	409.0	12.6	Euhedral	Faint oscillatory zoning in magmatic overgrowth. Core *(magmatic?)* lacks any zoning.	Heavily fractured. Pb-loss/alteration associated with these fractures. Very messy internal structure.	Core
b2_8.2	416.1	4.2	410.1	13.7	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Irregular zoning in core.	Moderately fractured. Alteration *(Pb-loss?)* associated with fractures.	MO
b2_9.1	411.9	5.0	406.9	13.9	Euhedral	Prominent oscillatory zoning in magmatic	Possible deformation *(bending of zones?)* in	Core

b2_9.3	413.1	3.9	422.1	12.6		overgrowth. Faint sector zoning in *(magmatic?)* core.	core-proximal magmatic overgrowth.	MO
b2_9.4	393.0	3.6	395.2	9.5				MO
b2_10.1	409.4	3.6	412.9	10.2	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Irregular zoning in *magmatic (??)* core.	Messy internal structure.	Core
b2_11.2	411.2	3.7	412.5	10.2	Euhedral	Prominent oscillatory zoning throughout magmatic overgrowth. Sector zoning also present. Faint irregular zoning in *magmatic (?)* core.	Lightly fractured.	MO
b2_11.3	409.1	6.9	412.8	17.9				Core
b2_12.1	402.5	4.7	405.0	16.3	Euhedral	Faint oscillatory zoning throughout magmatic overgrowth. *Magmatic (?)* core absent of any zoning.	Lightly fractured.	MO
b2_13.1	404.3	4.0	408.8	9.4	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. No zoning in *magmatic (?)* core.	Lightly fractured.	MO
b2_13.2	402.6	4.1	404.9	12.0				Core
b2_14.2	412.1	3.1	416.5	9.4	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Faint sector zoning in *inherited magmatic (?)* core.	N/A	MO

b2_15.1	407.5	3.5	412.0	10.2	Euhedral	Prominent oscillatory zoning throughout magmatic overgrowth. Core *(magmatic?)* absent of any clear zoning.	Heavily fractured.	MO
b2_15.2	383.9	4.7	391.6	11.7				MO
b2_15.3	413.7	5.2	419.5	13.4				MO
b2_17.1	411.7	4.0	411.7	10.5	Euhedral	No zoning in magmatic overgrowth or *(inherited?)* core.	Moderately fractured. Messy internal structure. Possible resorption of zircon core.	MO
b2_17.2	410.9	4.1	406.4	12.8				MO
b2_18.2	406.9	4.1	410.3	10.4	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. No zoning observed in *inherited (??)* core.	Moderately fractured. Messy internal structure.	MO
b2_19.1	405.2	3.6	407.1	9.9	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Very faint patchy oscillatory zoning in *(inherited?)* core.	N/A	MO

Table 1: Textural descriptions for all **concordant** points in **BG01**. Pale blue = grains affected by partial Pb loss. Pale red = emplacement grains. Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not included in age calculations.

Zircon ID	**206Pb/238U age (Ma)**	**2σ**	**207Pb/235U age (Ma)**	**2σ**	**Grain shape**	**Zoning pattern**	**Other**	**Location of laser spot(s)**
b1_1.1	420.4	4.3	443.1	8.2	Euhedral	Prominent oscillatory zoning in smaller magmatic overgrowth around a large central magmatic core *which* also contains patchy oscillatory zoning.	Heavily fractured. *Possible recrystallisation of homogenised core along a fracture.*	MO
b1_002	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. No zoning in *inherited* core.	Heavily fractured.	N/A
b1_003	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. *Very dark (black)* inherited core	Heavily fractured.	N/A
b1_004	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in	Moderately fractured. Possible recrystallisation	N/A

						magmatic overgrowth. Zoning absent in *(inherited?)* core.	or alteration in some areas near fractures (i.e., patchy white, unzoned areas).	
b1_005	N/A	N/A	N/A	N/A	Subhedral	Prominent complex oscillatory zoning in magmatic overgrowth. Patchy irregular zoning in *inherited (?)* core.	Heavily fractured. Ragged edges around core indicate possible resorption.	N/A
b1_6.1	431.1	5.2	473.5	11.7	Euhedral	Prominent oscillatory zoning in smaller magmatic overgrowth. Larger core contains patchy oscillatory zoning and faint sector zoning which continues into the overgrowth.	Lightly fractured.	MO
b1_6.2	424.3	6.6	435.3	11.9				MO
b1_7.1	407.1	6.8	430.4	13.1	Euhedral	Faint to prominent oscillatory zoning throughout large magmatic	Moderately fractured. Possible alteration/recrystallisation	MO

						overgrowth. Small core lacks any zoning.	of overgrowth associated with fractures.	
b1_008	N/A	N/A	N/A	N/A	Euhedral	Complex oscillatory zoning in magmatic overgrowth. *Inherited* core contains patchy irregular zoning.	Lightly fractured. Possible alteration/recrystallisation in overgrowth zones closest to core (i.e., loss of zoning structure, pale/patchy areas).	N/A
b1_010	N/A	N/A	N/A	N/A	Subhedral	Complex oscillatory zoning throughout. Cannot distinguish between core/rim.	Heavily fractured. Very messy internal structure. Alteration/recrystallisation associated with fractures across entire grain.	N/A
b1_011	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Patchy irregular zoning in complex *inherited* core.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., disrupts zoning pattern).	N/A
b1_012	N/A	N/A	N/A	N/A	Subhedral	Prominent oscillatory zoning throughout. Cannot fully	Heavily fractured.	N/A

						distinguish between *magmatic* core and rim.		
b1_013	N/A	N/A	N/A	N/A	Subhedral (broken?)	Complex irregular patchy zoning throughout.	Lightly fractured.	N/A
b1_015	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Core *(magmatic?)* contains patchy oscillatory zoning.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., ‘overprinting’ of zoning by bright structureless ‘patches’).	N/A
b1_016	N/A	N/A	N/A	N/A	Euhedral	Prominent to faint oscillatory zoning in magmatic overgrowth. Patchy oscillatory zoning in *magmatic* core.	Heavily fractured. Irregular core boundaries indicate possible resorption.	N/A

b1_017	N/A	N/A	N/A	N/A	Subhedral	Complex oscillatory zoning throughout.	Moderately fractured.	N/A
b1_018	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in magmatic overgrowth and patchy oscillatory zoning in *magmatic* core.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., ‘overprinting’ of zoning by bright structureless ‘patches’).	N/A
b1_020	N/A	N/A	N/A	N/A	Euhedral	Complex oscillatory zoning throughout. Cannot fully distinguish between core and rim.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., ‘overprinting’ of zoning by bright structureless ‘patches’).	N/A
b1_023	N/A	N/A	N/A	N/A	Subhedral	Complex oscillatory zoning throughout.	Lightly fractured.	N/A
b1_024	N/A	N/A	N/A	N/A	Subhedral	Complex oscillatory zoning in magmatic overgrowth. Patchy sector zoning in	Heavily fractured.	N/A

						inherited (?) core.		
b1_025	N/A	N/A	N/A	N/A	Subhedral	Complex irregular patchy zoning throughout.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., ‘overprinting’ of zoning by bright structureless ‘patches’).	N/A
b1_027	N/A	N/A	N/A	N/A	Subhedral	Patchy faint oscillatory zoning in magmatic overgrowth. More prominent oscillatory zoning in *magmatic* core.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., dark/bright unzoned spots).	N/A
b1_030	N/A	N/A	N/A	N/A	Euhedral	Complex prominent oscillatory zoning throughout magmatic overgrowth and *magmatic* core.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., dark/bright unzoned spots).	N/A
b1_031	N/A	N/A	N/A	N/A	Subhedral	Complex oscillatory zoning throughout magmatic	Heavily fractured. Alteration/recrystallisation spatially related to fractures.	N/A

						overgrowth and faint irregular zoning in inherited *magmatic* core.	Possible partial resorption around and within core.	
b1_33.1	418.8	4.4	437.3	12.9	Subhedral	Prominent oscillatory zoning in smaller magmatic overgrowth. Large core contains faint irregular zoning.	Moderately fractured. Possible partial resorption within core. Alteration/recrystallisation associated with fractures (indicated by bright spots).	Core
b1_034	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Unaltered region of *magmatic* core contains faint oscillatory zoning.	Heavily fractured. Possible recrystallisation of core along associated fractures (i.e., ‘overprinting’ of zoning by bright structureless ‘patches’). Random alteration throughout grain (bright spots).	N/A
b1_035	N/A	N/A	N/A	N/A	Euhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration/recrystallisation along fractures (dark/bright spots).	N/A

b1_036	N/A	N/A	N/A	N/A	Euhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Alteration/recrystallisation associated with fractures (i.e., ‘overprinting’ of zoning by random bright structureless ‘patches’).	N/A
b1_037	N/A	N/A	N/A	N/A	Euhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration associated with fractures.	N/A
b1_038	N/A	N/A	N/A	N/A	Euhedral	Faint patchy oscillatory zoning throughout magmatic overgrowth. *Inherited (?)* core lacks any zoning.	Heavily fractured. Possible alteration associated with fractures (dark and bright spots).	N/A
b1_039	N/A	N/A	N/A	N/A	Euhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration (i.e., dark patches indicate Pb loss, bright patches – other fluid activity?) and recrystallisation associated with fractures.	N/A

b1_040	N/A	N/A	N/A	N/A	Subhedral	Complex prominent oscillatory zoning throughout magmatic overgrowth and faint patchy oscillatory zoning in *magmatic* core.	Heavily fractured. Possible resorption within core and around core (indicated by v irregular edges). Possible alteration associated with fractures.	N/A
b1_041	N/A	N/A	N/A	N/A	Subhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration associated with fractures (dark and bright patches).	N/A
b1_042	N/A	N/A	N/A	N/A	Euhedral	Prominent oscillatory zoning in magmatic overgrowth and faint patchy oscillatory zoning in *magmatic* core.	Heavily fractured. Possible alteration/recrystallisation associated with fractures.	
b1_043	N/A	N/A	N/A	N/A	Subhedral	Prominent oscillatory zoning in magmatic overgrowth. Zoning is absent in the *(??)* core.	Heavily fractured. Possible alteration/recrystallisation associated with fractures (i.e., partial recrystallisation of core by introduction of fluids through fractures).	N/A

b1_044	N/A	N/A	N/A	N/A	Euhedral	Prominent to faint oscillatory zoning in magmatic overgrowth. *Magmatic* core contains faint oscillatory zoning.	Lightly fractured.	N/A
b1_046	N/A	N/A	N/A	N/A	Subhedral	Complex oscillatory zoning throughout magmatic overgrowth. Faint irregular zoning in *(?)* core.	Heavily fractured. Possible alteration associated with fractures.	N/A
b1_047	N/A	N/A	N/A	N/A	Euhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration/recrystallisation associated with fractures (lots of bright spots, zoneless patches, disruption to zoning pattern).	N/A
b1_48.1	390.3	7.3	420.0	12.9	Euhedral	Complex prominent to faint oscillatory zoning in magmatic	Lightly fractured. Possible alteration associated with fractures (i.e., bright patches,	Rim?

b1_48.2	414.5	3.8	434.2	9.7		overgrowth. *Magmatic* core contains patchy oscillatory zoning. Core and rim are proportionate i.e., equal size	disruption to zoning near fractures).	Core?
b1_049	N/A	N/A	N/A	N/A	Euhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration associated with fractures.	N/A
b1_050	N/A	N/A	N/A	N/A	Subhedral	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration associated with fractures.	N/A
b1_051	N/A	N/A	N/A	N/A	Subhedral	Complex prominent oscillatory zoning in magmatic overgrowth. Poorly defined *(??)* core lacks any zoning.	Heavily fractured. Possible alteration associated with fractures.	N/A
b1_052	N/A	N/A	N/A	N/A	Subhedral (broken)	Complex prominent oscillatory zoning throughout.	Heavily fractured. Possible alteration/recrystallisation associated with fractures.	N/A

b2_002	N/A	N/A	N/A	N/A	Subhedral	Oscillatory zoning in magmatic overgrowth. Faint patchy sector zoning in *inherited (?)* core, extending into overgrowth.	Moderately fractured. Possible alteration (Pb-loss)/recrystallisation associated with fractures.	N/A
b2_005	N/A	N/A	N/A	N/A	Subhedral	Oscillatory zoning in magmatic overgrowth. Irregular patchy zoning in *(?)* core.	Lightly fractured. Possible alteration/recrystallisation associated with fractures.	N/A
b2_006	N/A	N/A	N/A	N/A	Subhedral	Complex zoning throughout. Cannot properly distinguish between core and rim.	Lightly fractured. Possible alteration/recrystallisation associated with fractures.	N/A
b2_16.1	391.4	4.9	406.4	10.4	Subhedral (broken)	Complex zoning throughout. Larger core, smaller magmatic overgrowth.	No fractures. Possible Pb-loss in core.	Core
b2_020	N/A	N/A	N/A	N/A	Euhedral	Complex zoning throughout.	Heavily fractured. Possible	N/A

							alteration/recrystallisation associated with fractures.	

Table 2: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **BG01**. Orange = too fractured/too small/too many overlapping zones/grains too altered for analysis. Blue = lasered but completely discordant.

2. Cheviot zircons (CH01, CH02)

Zircon ID	206Pb/238 U age (Ma)	2σ	207Pb/235 U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
1.1	410.0	6.2	410.1	13.2	Subhedral	Faint oscillatory zoning in magmatic overgrowth. No zoning in heterogeneous core.	Lightly fractured.	Core
3.1	402.6	5.8	404.9	7.8	Subhedral	Heterogeneous oscillatory and convolute zoning in magmatic overgrowth. Faint irregular zoning in magmatic core.	Very lightly fractured.	Core
3.2	408.2	7.1	410.0	13.7				MO
4.1	405.7	6.3	396.3	9.6	Subhedral (broken)	Prominent oscillatory and prominent sector zoning in magmatic overgrowth Prominent oscillatory zoning in core.	Lightly fractured. Possible recrystallisation around inclusions (i.e., pale zoneless patches in MO).	Core
4.2	399.3	8.0	409.4	16.7				MO
6.1	403.1	5.9	395.1	11.6	Subhedral (broken)	Heterogeneous oscillatory zoning in magmatic overgrowth. Heterogeneous partial core i.e., part of core ‘popped’ out	Lightly fractured. Possible localised recrystallisation (i.e., pale unzoned homogeneous ‘patches’) in some oscillatory zones. Inclusion crosscuts core?	MO
8.1	400.3	6.6	402.5	16.4	Euhedral	Prominent oscillatory zoning in magmatic overgrowth. Faint oscillatory and	Potential random localised recrystallisation in some oscillatory zones.	Core
8.2	402.7	5.7	404.8	10.6				MO

						prominent sector zoning in *large* core.		
9.1	404.6	7.1	402.4	9.1	Subhedral	Heterogeneous oscillatory zoning throughout overgrowth and core.	Lightly fractured. Possible recrystallisation/alteration associated with fractures and inclusions.	Core
10.1	401.1	5.4	398.7	9.5	Subhedral (broken)	Heterogeneous oscillatory and sector zoning in magmatic overgrowth. Missing core.	Possible recrystallisation (homogeneous pale ‘patch’) at overgrowth margin.	MO
13.3	403.5	5.9	408.5	12.7	Euhedral	Heterogeneous oscillatory zoning throughout. Faint sector zoning from core into overgrowth.	Possible recrystallisation e.g., 60 µm wide homogeneous zoneless patch overprints oscillatory zones in overgrowth around an inclusion.	MO
17.1	398.9	5.5	403.6	8.8	Subhedral	Heterogeneous oscillatory zoning throughout.	A large inclusion (~80 µm length) included in this grain.	Core(?)
21.1	407.5	5.5	405.8	11.1	Subhedral	Heterogeneous oscillatory (and faint convoluted?) zoning in overgrowth. Complex zoning in *heterogeneous* core.	Possible partial resorption at core-rim boundary. Potential partial recrystallisation of core (i.e., total loss of original zoning, replaced by homogeneous unzoned pale patch).	MO

24.2	399.0	5.9	389.4	11.8	Euhedral	Prominent oscillatory zoning throughout. Faint sector zoning from core into overgrowth.	N/A	MO
24.3	410.3	8.2	410.3	16.0				MO
26.1	395.8	5.4	395.4	9.4	Subhedral	Heterogeneous oscillatory zoning in core and overgrowth.	Lightly fractured. Possible alteration/recrystallisation associated with these fractures (i.e., loss of zones). Potential onset of resorption at core-rim boundary (i.e., core margin 'spilling' into overgrowth).	MO
28.1	399.3	6.2	404.3	11.9	Euhedral	Heterogeneous oscillatory zoning throughout.	N/A	MO
33.1	401.4	6.8	398.6	15.9	Subhedral (broken)	Prominent oscillatory zoning and faint sector zoning throughout magmatic overgrowth. Faint patchy oscillatory zoning in core.	N/A	Core
33.2	409.0	5.8	402.1	11.1				MO
33.3	411.5	5.9	413.1	9.5				MO
34.1	397.0	6.5	395.5	13.1	Subhedral (broken)	Prominent oscillatory zoning and faint sector zoning in magmatic overgrowth. Faint patchy oscillatory zoning in core.	Core deformed around large inclusion (~50 µm length). Possible recrystallisation around inclusion.	Core
34.2	397.6	5.6	398.3	11.4				MO
35.1	395.2	6.2	392.4	12.3	Euhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Faint patchy oscillatory zoning in core.	Lightly fractured. Potential localised recrystallisation around fractures	Core
35.2	403.5	5.8	404.4	9.8				MO

							(i.e., overprinting and disruption of zones).	
38.2	409.1	6.2	419.1	12.9	Subhedral	Heterogeneous zoning throughout.	Possible recrystallisation associated with central gap in the grain.	MO
39.1	405.1	7.1	410.7	18.0	Subhedral (broken)	Heterogeneous oscillatory zoning throughout magmatic overgrowth. Homogeneous unzoned core.	Lightly fractured. Potential localised recrystallisation around fractures.	Core
40.1	394.3	5.4	396.2	9.9	Subhedral	Prominent oscillatory zoning in magmatic overgrowth. Faint heterogeneous zoning in core.	Possible localised recrystallisation around inclusions.	Core
40.2	405.5	6.1	406.6	12.5				MO
41.1	402.7	5.5	404.1	8.4	Subhedral	Prominent oscillatory zoning in magmatic overgrowth. Heterogeneous *(messy)* unzoned core.	Moderately fractured. Potential alteration and recrystallisation associated with fractures. Possible partial resorption of core.	Core
41.2	408.6	5.5	411.5	7.7				MO
42.2	395.7	5.8	391.2	13.2	Euhedral	Heterogeneous oscillatory zoning and prominent sector zoning in magmatic overgrowth. Complex unzoned core.	N/A	MO
43.1	402.1	5.5	400.8	11.4	Subhedral (broken)	Heterogeneous oscillatory zoning in magmatic overgrowth. Unzoned semi-homogeneous core.	N/A	Core

44.1	398.5	6.4	400.2	13.5	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Heterogeneous unzoned core.	Lightly fractured. Possible partially resorbed core (i.e., irregular ‘mixed’ edges)	Core
45.1	398.5	5.8	403.8	10.6	Euhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Irregular patchy zoning in core.	Lightly fractured. Possible recrystallisation, spatially related to inclusions.	Core
45.3	399.5	6.2	396.7	16.1				MO
46.1	398.8	6.7	396.9	10.0	Euhedral	Prominent oscillatory and faint sector zoning in magmatic overgrowth. Unzoned semi-homogeneous core.	N/A	Core
46.2	406.0	6.1	401.5	9.4				MO
46.3	400.9	5.7	400.6	11.1				MO
49.2	401.0	7.4	407.5	18.6	Anhedral	Heterogeneous zoning throughout.	Possible partial resorption or recrystallisation of inner growth zones.	MO
50.1	401.0	5.9	397.6	11.8	Subhedral	Heterogeneous oscillatory zoning throughout magmatic overgrowth. Heterogeneous unzoned core.	Lightly fractured.	MO
51.2	406.6	6.6	400.2	14.6	Subhedral	Heterogeneous oscillatory and faint sector zoning throughout magmatic overgrowth. Heterogeneous unzoned core.	Lightly fractured. Possible alteration/recrystallisation associated with some fractures.	MO
52.1	397.4	5.9	404.1	11.6	Euhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Cannot determine core texture as it is	Moderately fractured. Potential recrystallisation	MO
52.2	408.2	6.0	418.0	11.2				MO

						overalapped by an inclusion.	associated with fractures (i.e., homogeneous unzoned ‘patches’ throughout). Possible partial resorption in outermost overgrowth zone.	
53.1	398.2	6.3	408.1	12.6	Euhedral	Heterogeneous oscillatory zoning throughout. Semi-homogeneous core.	Lightly fractured. Possible onset of resorption along core – rim boundary (i.e., irregular boundary and homogeneous unzoned ‘patch’ in overgrowth).	Core
53.2	402.4	5.7	403.4	10.7				MO
54.1	394.6	6.1	398.0	9.5	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Unzoned *inherited(?)* core.	Lightly fractured. Possible alteration (fluid ingress?) of core proximal zones (i.e., bright zones) along fractures.	MO
54.2	399.7	5.7	400.5	13.5				MO
55.1	406.7	6.1	404.9	12.1	Euhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Unzoned semi-homogeneous core.	Lightly fractured. Possible partial resorption or recrystallisation at core – overgrowth boundary, associated with fractures.	Core
57.1	395.6	6.0	398.6	9.9	Subhedral (broken)	Heterogeneous oscillatory zoning in	Lightly fractured.	MO
57.2	398.4	5.7	403.9	10.5				MO

57.3	404.6	6.2	410.3	11.5		magmatic overgrowth. Semi-homogeneous unzoned core.	Alteration and/or recrystallisation associated with fractures (i.e., total removal of zones).	MO
59.1	399.5	6.0	402.9	11.6	Subhedral	Heterogeneous oscillatory and faint sector zoning in magmatic overgrowth. Cannot determine core texture as it is overlapped by an inclusion/another core/hole in the grain (?).	Lightly fractured. Potential recrystallisation associated with inclusions and fractures. Inclusion overlaps core.	MO
60.1	400.8	6.1	401.7	11.3	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Homogeneous unzoned core.	Very lightly fractured. Potential recrystallisation (i.e., homogeneous unzoned ‘patches’) around inclusions and fractures.	Core
60.2	403.5	5.7	410.1	11.7				MO
61.1	417.7	6.1	422.3	11.9	Subhedral (broken)	Heterogeneous oscillatory zoning around central heterogeneous unzoned core.	Lightly fractured. Possible alteration and/or recrystallisation of core (Pb-loss?) and rim, associated with fractures. Potential partial resorption along core – rim boundary (i.e., homogeneous unzoned white ‘patches’	Core

							overprinting original core).	
62.1	403.6	5.7	410.4	8.9	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Faint irregular zoning in homogeneous core.	Very lightly fractured. Possible recrystallisation associated with inclusions and fractures.	Core
62.2	403.1	5.9	412.0	10.9				MO
64.1	402.0	5.7	408.6	12.2	Subhedral (broken)	Heterogeneous oscillatory zoning throughout magmatic overgrowth. Faint patchy oscillatory zoning in core.	Potential onset of resorption along core – rim boundary (?).	Core
66.2	401.7	6.0	398.9	10.9	Euhedral	Heterogeneous oscillatory and faint sector zoning throughout magmatic overgrowth. Small (~ 10 µm) heterogeneous core.	Hole/inclusion (?)	MO
67.2	401.7	6.3	404.7	12.1	Subhedral	Heterogeneous oscillatory zoning throughout magmatic overgrowth and heterogeneous core.	Heavily fractured. Possible alteration and/or recrystallisation associated with fractures (i.e., overprinting of core with faintly zoned ‘patch’).	MO
68.1	398.4	7.6	404.7	19.8	Anhedral	Faint patchy zoning throughout.	Lightly fractured.	Core/MO
70.1	404.9	6.4	397.5	16.4	Subhedral (broken)	Heterogeneous zoning throughout.	Lightly fractured.	Core?

Table 3: Textural descriptions for all **concordant** points in **CH01**. Pale blue = grains affected by partial Pb loss. Pale red = emplacement grains. Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not used in age calculations.

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
Grain_2.0	N/A	N/A	N/A	N/A	Subhedral (broken)	Heterogeneous faint oscillatory zoning in magmatic overgrowth. Poorly defined unzoned heterogeneous core.	Heavily fractured. Possible partial resorption and/or recrystallisation of core associated with fractures.	N/A
Grain_5.0	N/A	N/A	N/A	N/A	Euhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Unzoned heterogeneous core.	Moderately fractured. Potential alteration and/or recrystallisation associated with fractures in core and overgrowth.	N/A
Grain_7.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Irregular zoning in core.	Moderately fractured. Large mineral (?) inclusion (~20 µm) crosscuts core. Possible *(fluid?)* alteration associated with fractures.	N/A
Grain_11.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous faint oscillatory zoning in magmatic overgrowth. Poorly defined unzoned heterogeneous core.	Heavily fractured. Potential alteration and/or recrystallisation associated with fractures (i.e., removed any original	N/A

							core structure by fluid ingress?).	
Grain_12.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Poorly defined unzoned heterogeneous core.	Heavily fractured. Potential alteration and/or recrystallisation associated with fractures (i.e., removed any original core structure by fluid ingress?).	
14.1	394.2	7.3	424.5	21.4	Euhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Lightly fractured. Possible recrystallisation and/or alteration spatially related to fractures (i.e., overprinting of zones by homogeneous dark and pale 'patches').	Core
14.2	406.6	5.9	475.4	10.7				MO
Grain_15.0	N/A	N/A	N/A	N/A	Subhedral (broken)	Heterogeneous zoning and overall structure throughout.	Moderately fractured. Large heterogeneous (mineral?) inclusion preserved (~95 µm length). Potential alteration and/or recrystallisation associated with fractures and inclusion (i.e., original zoning replaced by heterogeneous dark/bright patches).	N/A

16.1	409.3	6.1	437.5	12.2	Subhedral	Heterogeneous oscillatory zoning throughout.	Very lightly fractured. Large anhedral mineral (?) inclusion (~50 µm) in centre. Possible alteration and/or recrystallisation associated with fractures and inclusions (i.e., homogeneous patches overprinting zoning).	MO
Grain_18.0	N/A	N/A	N/A	N/A	Euhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Poorly defined unzoned heterogeneous core.	Moderately fractured. Potential alteration and/or recrystallisation of core and overgrowth, associated with fractures. Partially resorbed core (?).	N/A
19.1	407.0	8.3	420.7	18.3	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Semi-homogeneous unzoned core. Core and rim of approximately equal size.	Moderately fractured. Possible alteration and/or recrystallisation associated with fractures.	Core
19.2	404.0	6.7	427.4	12.6				MO
Grain_20.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Unzoned homogeneous core.	Moderately fractured. Possible alteration and/or recrystallisation	N/A

							associated with fractures.	
Grain_22.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Heterogeneous unzoned core.	Moderately fractured. Potential alteration and recrystallisation of core and overgrowth, associated with fractures and inclusions.	
23.1	406.5	6.3	437.2	10.7	Subhedral	Heterogeneous oscillatory (and convolute?) zoning throughout.	Lightly fractured. Possible alteration and recrystallisation of core and overgrowth.	Core
Grain_25.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	Lightly fractured. Alteration and/or recrystallisation of core and overgrowth associated with central fracture and inclusions.	N/A
27.1	384.3	6.6	486.6	13.1	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Faint patchy oscillatory and sector zoning in large core.	Moderately fractured. Alteration and/or recrystallisation associated with central fracture (i.e., bright unzoned areas around fracture in CL).	MO
29.1	402.5	6.6	415.4	14.6	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Complex heterogeneous anhedral core.	Very lightly fractured. Partial resorption of core (faint irregular core (faint irregular zoning, irregular core – rim boundary). Potential alteration	MO
29.2	403.5	5.70	445.9	11.2				MO

							and/or recrystallisation randomly throughout.	
Grain_30.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous faint zoning throughout.	Moderately fractured. Possible alteration (fluid ingress?) associated with fractures.	N/A
Grain_31.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous faint zoning in magmatic overgrowth. Unzoned heterogeneous core.	Lightly fractured. Possible alteration/recrystallisation (mainly in core) associated with fractures.	N/A
Grain_32.0	N/A	N/A	N/A	N/A	Subhedral (broken)	Heterogeneous oscillatory zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	Lightly fractured. Possible alteration and/or recrystallisation (bright areas, fluid ingress?) associated with fractures.	N/A
Grain_36.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous zoning throughout.	Lightly fractured. Alteration (fluid ingress?) and possible recrystallisation associated with fractures (i.e., distortion/overprinting of original structure with bright patches).	N/A
Grain_37.0	N/A	N/A	N/A	N/A	Euhedral	Heterogeneous irregular random zoning throughout.	Alteration and/or possible recrystallisation associated with inclusions.	N/A

47.1	406.9	5.6	483.9	13.0	Subhedral	Prominent oscillatory and faint sector zoning in smaller magmatic overgrowth. Larger semi-homogeneous unzoned core.	Very lightly fractured. Possible alteration associated with fractures.	MO
47.2	404.2	5.7	443.4	10.1				MO
48.1	400.1	7.3	421.9	17.7	Subhedral	Heterogeneous oscillatory zoning in small magmatic overgrowth. Large semi-homogeneous unzoned core.	N/A	Core
56.1	391.7	7.2	497.1	34.8	Subhedral	Heterogeneous oscillatory zoning throughout smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Moderately fractured. Potential alteration and/or recrystallisation associated with fractures randomly throughout. Inclusion overlaps core.	MO
58.1	405.4	5.8	418.6	10.9	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Larger semi-homogeneous unzoned core.	Lightly fractured. Possible alteration and/or recrystallisation associated with fractures and inclusions.	Core
58.2	379.1	11.1	397.7	11.2				MO
Grain_65.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous patchy oscillatory zoning throughout magmatic overgrowth. Poorly defined unzoned heterogeneous core.	Heavily fractured. Alteration and/or recrystallisation associated with fractures (i.e., original zoning overprinted by homogeneous	N/A

							unzoned patches) throughout.	
Grain_69.0	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous prominent oscillatory zoning in magmatic overgrowth. Heterogeneous unzoned core.	Heavily fractured. Possible alteration (fluid ingress?) and/or recrystallisation in core, associated with fractures.	N/A
Grain_71.0	N/A	N/A	N/A	N/A	Anhedral	Zoning not observed throughout.	Very heavily fractured. Alteration and/or recrystallisation associated with extensive fractures.	N/A
Grain_72.0	N/A	N/A	N/A	N/A	Subhedral (broken)	Heterogeneous oscillatory zoning in magmatic overgrowth. Heterogeneous unzoned core.	Very heavily fractured. Possible alteration (fluid ingress?) associated with fractures.	N/A
73.1	375.4	8.3	388.7	16.8	Subhedral (broken)	Faint patchy oscillatory zoning throughout.	Heavily fractured.	N/A

Table 4: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **CH01**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
1.1	398.6	9.7	401.2	6.9	Subhedral	Heterogeneous oscillatory zoning in small magmatic overgrowth. Large semi-homogeneous faintly zoned core.	PLA/PLR	Core
9.2	407.5	10.5	403.2	13.2	Anhedral (broken)	Heterogeneous patchy oscillatory zoning in small magmatic overgrowth. Faint sector zoning in large heterogeneous core.	Very lightly fractured.	MO
10.1	400.3	9.9	406.0	10.3	Subhedral	Faint oscillatory and prominent sector zoning in large magmatic overgrowth. Inclusion overlaps small core.	PLA/PLR - *incl*	MO
12.2	399.1	10.0	395.4	10.2	Subhedral	Heterogeneous prominent oscillatory zoning in large magmatic overgrowth. Semi-homogeneous faintly zoned small core.	Very lightly fractured. PLA/PLR - *fract/incl*	MO
12.3	402.4	10.3	403.0	9.8				MO
13.1	401.5	10.1	400.4	10.4	Euhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	PLA/PLR - *incl*	Core
13.2	400.7	9.8	403.0	9.2				MO

14.1	403.5	10.0	407.2	9.1	Subhedral	Heterogeneous prominent oscillatory zoning in smaller magmatic overgrowth. Large homogeneous unzoned core.	Lightly fractured. PLA/PLR - *fract/incl*	Core
14.2	403.6	9.9	411.0	9.6				MO
17.1	400.2	9.8	398.2	8.3	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Faint irregular zoning in large semi-homogeneous core.	Very lightly fractured. PLA/PLR - *fract/incl*	Core
17.2	401.9	10.6	408.7	13.1				MO
26.1	399.3	9.8	399.0	8.9	Subhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Small semi-homogeneous unzoned core.	Large anhedral mineral (?) inclusion partially overlaps the core.	MO
28.2	407.3	10.0	417.0	9.5	Subhedral	Heterogeneous prominent oscillatory zoning in smaller magmatic overgrowth. Faint irregular zoning in large heterogeneous core.	Moderately fractured. PLA/PLR - *fract*	MO
29.1	398.3	9.8	407.8	10.8	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Possible faint sector zoning in large heterogeneous core?	Large euhedral mineral (?) inclusion partially overlaps core. PLA/PLR - *incl/fract*	Core
29.4	407.6	10.3	415.7	10.8				MO
35.1	399.0	10.4	398.3	8.8	Subhedral			Core

35.3	401.9	9.9	401.7	10.0		Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Lightly fractured. PLA/PLR - *incl/fract*	MO
36.1	401.3	9.9	400.7	7.9	Anhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Faint patchy oscillatory zoning in smaller core.	PLA/PLR - *incl*	Core
36.4	398.4	9.8	404.4	8.4				MO
43.1	398.2	11.3	395.6	17.2	Subhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Semi-homogeneous unzoned core.	Very lightly fractured. PLA/PLR - *fract*	Core
43.2	399.0	9.8	399.6	7.4				MO
43.3	398.8	9.8	400.9	9.5				MO
47.1	401.2	10.3	396.3	11.3	Subhedral	Heterogeneous faint oscillatory zoning in magmatic overgrowth. Homogeneous unzoned core.	Very lightly fractured. PLA/PLR - *fract*	Core
47.2	398.2	10.0	390.7	11.2				MO
48.1	400.9	10.7	404.7	13.2	Subhedral	Heterogeneous faint oscillatory zoning in large magmatic overgrowth. Semi-homogeneous unzoned small core.	Very lightly fractured.	Core
48.2	413.4	12.1	422.0	9.8				MO
49.1	408.2	11.0	412.0	20.0	Subhedral	Heterogeneous oscillatory zoning in larger (?) magmatic overgrowth. Small	Lightly fractured. PLA - *fract*	MO?

						homogeneous unzoned core.		
52.1	396.8	10.0	393.9	10.1	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	N/A	Core
52.4	404.6	10.1	405.0	10.8				MO
53.1	401.6	10.0	408.6	12.7	Subhedral	Heterogeneous faint oscillatory, convolute and sector zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	PLA/PLR – *not fract/incl*	Core
55.1	405.4	10.2	405.8	10.7	Subhedral	Heterogeneous oscillatory and sector zoning in larger magmatic overgrowth. Small semi-homogeneous unzoned core.	PLA/PLR - *incl*	Core
55.2	414.8	10.9	410.5	10.9				MO
58.2	401.6	9.9	396.8	9.9	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large heterogeneous core with complex zoning.	PLA/PLR - *incl*	Core
59.1	412.0	10.7	402.5	11.1	Euhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Faint irregular zoning in semi-homogeneous core.	Lightly fractured. PLA/PLR - *fract*	MO

63.1	402.4	11.3	399.7	15.5	Subhedral	Heterogeneous faint zoning in large magmatic overgrowth. Small semi-homogeneous unzoned core.	Very lightly fractured. PLA/PLR - *fract*	Core
66.1	400.6	13.3	400.4	20.7	Subhedral	Heterogeneous faint patchy oscillatory zoning in magmatic overgrowth. Heterogeneous core.	Very lightly fractured. PLA/PLR – *fract* PR – *core (?)*	MO
67.1	414.2	12.5	410.8	11.5	Euhedral	Faint oscillatory zoning in small magmatic overgrowth. Large homogeneous unzoned core.	N/A	Core
77.1	390.1	9.8	395.1	8.7	Subhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Smaller heterogeneous core.	Moderately fractured. PLA/PLR – *incl/fract*	MO
78.1	394.9	9.8	398.2	9.2	Euhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Small semi-homogeneous unzoned core.	Moderately fractured. PLA/PLR – *incl/fract*	MO
79.1	396.4	9.9	394.2	9.8	Euhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large heterogeneous unzoned core.	Lightly fractured. PLA/PLR – *fract*	

80.1	393.1	9.9	396.8	11.5	Subhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Small semi-homogeneous unzoned core.	Very lightly fractured. PLA/PLR - *fract/incl*	Core
81.1	398.1	9.9	388.5	8.4	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Faint patchy zoning in semi-homogeneous core.	PLA?	Core
81.2	397.3	9.9	400.0	11.0				Core
81.3	396.7	9.8	388.3	8.9				MO
81.4	403.3	9.9	400.4	10.7				MO
86.1	400.8	10.2	396.9	12.9	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Lightly fractured. PLA/PLR - *fract/incl*	MO
90.1	402.5	10.3	398.0	9.0	Subhedral	Prominent oscillatory and sector zoning in magmatic overgrowth. Heterogeneous core.	PLA/PLR - *within spec oscil zones/core*	MO
90.2	397.6	10.0	389.7	14.2				MO
92.2	402.8	10.0	403.7	8.5	Subhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Small homogeneous core.	PLA/PLR - *within spec oscil zones*	MO
92.3	398.1	9.8	398.9	10.1				MO
97.1	399.6	10.4	397.6	12.2	Subhedral	Heterogeneous oscillatory and sector zoning in magmatic overgrowth. Heterogeneous poorly defined core.	Lightly fractured. PLA/PLR - *fract*	MO
100.1	382.7	9.7	385.6	8.2	Subhedral			Core

100.3	393.7	10.2	401.9	8.9		Heterogeneous oscillatory zoning in magmatic overgrowth. Faint patchy zoning in semi-homogeneous core.	Very lightly fractured. PLA/PLR - *fract/incl*	MO
100.4	388.0	9.8	393.2	9.8				MO
101.2	394.0	9.8	392.2	9.1	Subhedral	Heterogeneous oscillatory and convolute (?) zoning in smaller magmatic overgrowth. Heterogeneous large partially resorbed (?) core.	Very lightly fractured. PLA/PLR - *fract/incl*	MO

Table 5: Textural descriptions for all **concordant** points in **CH02**. Blue = Pb loss/altered grains. Pale red = emplacement grains. Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not used in age calculations.

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
Grain_002	N/A	N/A	N/A	N/A	N/A	N/A	Apatite?	N/A
3.1	440.9	15.2	999.3	69.4	Anhedral	Heterogeneous structure throughout.	Lightly fractured. *LI*	Core?
Grain_004	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous structure throughout.	Lightly fractured. *LI*	N/A
5.1	437.5	11.9	1149.3	20.5	Euhedral	Heterogeneous faint oscillatory zoning throughout.	N/A	Core
5.2	452.1	13.6	1214.7	21.8				MO
Grain_006	N/A	N/A	N/A	N/A	Subhedral	Large unzoned magmatic overgrowth. Small semi-homogeneous unzoned core.	Very lightly fractured. PLA/PLR - *fract*	N/A
7.1	395.8	10.6	432.1	16.1	Subhedral	Small heterogeneous faintly zoned magmatic overgrowth. Large heterogeneous core with faint oscillatory zoning.	Very lightly fractured. PLA/PLR - *fract/incl*	Core
7.2	426.7	11.2	645.7	28.4				Core?
7.3	561.9	16.3	1545.7	40.0				MO
8.1	420.4	14.7	563.7	75.5	Subhedral	Smaller heterogeneous variably zoned magmatic overgrowth. Large heterogeneous core with faint oscillatory zoning.	*LI* PLA/PLR - *incl*	Core
11.1	396.5	10.1	383.1	9.2	Subhedral	Heterogeneous prominent oscillatory zoning in smaller	Very lightly fractured.	Core

						magmatic overgrowth. Faint oscillatory zoning in large semi-homogeneous core.	PLA/PLR - *fract*	
30.1	404.8	10.5	391.3	11.6	Subhedral	Heterogeneous faint oscillatory zoning in larger magmatic overgrowth. Small semi-homogeneous unzoned core.	Very lightly fractured. PLA/PLR - *fract*	MO
Grain_031	N/A	N/A	N/A	N/A	Subhedral	Faint oscillatory zoning in smaller magmatic overgrowth. Larger semi-homogeneous unzoned core.	Lightly fractured.	NA
32.1	685.9	32.1	2112.8	76.0	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Heterogeneous core.	Moderately fractured. PLA/PLR - *fract/incl* *LI*	MO
Grain_033	N/A	N/A	N/A	N/A	Subhedral	Faint oscillatory zoning in magmatic overgrowth. Semi-homogeneous core?	Lightly fractured. PLA - *fract*	N/A
Grain_034	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Small heterogeneous core.	Very lightly fractured. PLA/PLR - *fract/incl* *LI*	N/A

37.1	411.3	10.1	576.3	36.7	Subhedral (broken)	Heterogeneous faint oscillatory zoning throughout smaller magmatic overgrowth. Faint patchy oscillatory zoning in large heterogeneous core.	PLA/PLR - break *in grain*	Core
37.2	400.7	10.4	449.3	12.8				MO
Grain_038	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous faint zoning in magmatic overgrowth. Faint oscillatory zoning in semi-homogeneous core.	Very lightly fractured. PLA/PLR - *fract/incl*	N/A
Grain_039	N/A	N/A	N/A	N/A	Subhedral	No zoning throughout. Semi-homogeneous grain. No core observed.	Lightly fractured.	N/A
Grain_040	N/A	N/A	N/A	N/A	Subhedral (broken)	Heterogeneous structure throughout. Cannot distinguish between core and rim.	Moderately fractured.	N/A
Grain_041	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Lightly fractured. PLA/PLR - *fract/incl*	N/A
Grain_042	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning throughout magmatic overgrowth. Irregular patchy zoning in heterogeneous core.	PLA/PLR	N/A

44.1	403.2	10.3	438.7	16.1	Subhedral	Faint oscillatory and prominent sector zoning in magmatic overgrowth. Heterogeneous core.	PLA/PLR - *broken region at core?*	
45.1	399.9	9.8	425.3	11.5	Subhedral	Heterogeneous faint oscillatory zoning in larger magmatic overgrowth. Semi-homogeneous unzoned core.	Very lightly fractured. PLA/PLR - *fract/incl*	MO
Grain_046	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous very faintly zoned grain.	Unsure if zircon or apatite?	N/A
Grain_050	N/A	N/A	N/A	N/A	Subhedral	Small homogeneous unzoned magmatic overgrowth. Large semi-homogeneous unzoned core.	Moderately fractured.	N/A
Grain_051	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous throughout. Cannot distinguish between core and rim.	Lightly fractured.	N/A
Grain_054	N/A	N/A	N/A	N/A	Euhedral	Heterogeneous faint zoning throughout small magmatic overgrowth. Faint irregular zoning in large semi-homogeneous core.	Lightly fractured. PLA/PLR - *fract*	N/A
Grain_056	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous faintly zoned grain. Cannot distinguish between a core and rim.	Moderately fractured. PLA/PLR - *incl*	N/A

Grain_057	N/A	N/A	N/A	N/A	Subhedral	Very small (< 100 µm) heterogeneous grain.	Very lightly fractured.	N/A
Grain_060	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in small magmatic overgrowth. Faint patchy irregular zoning in large heterogeneous core.	Lightly fractured. PLA/PLR - *fract/incl*	N/A
Grain_061	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous very faintly zoned grain.	Very lightly fractured. Unsure if zircon or apatite?	N/A
Grain_062	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous faint oscillatory zoning in small magmatic overgrowth. Faint sector zoning in large heterogeneous core.	PLA/PLR - *incl* PR - *partial resorption of core and outer growth zones*	N/A
Grain_064	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous structure throughout.	N/A	N/A
Grain_065	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in larger magmatic overgrowth. Small unzoned semi-homogeneous (inherited?) core.	Lightly fractured. PLA/PLR - *fract/incl* PR - *partial resorption in magmatic overgrowth*	N/A
68.2	401.3	9.9	427.4	14.8	Subhedral	Heterogeneous oscillatory and faint sector zoning throughout.	PLA/PLR - *incl*	N/A

69.1	408.2	10.1	473.4	11.1	Euhedral	Heterogeneous oscillatory zoning in smaller magmatic overgrowth. Large homogeneous unzoned core.	Very lightly fractured. PLA/PLR	Core
69.2	398.4	10.4	461.7	18.4				MO
Grain_070	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous faint oscillatory zoning in smaller magmatic overgrowth. Large heterogeneous unzoned core.	*LI*	N/A
Grain_071	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous and faint sector (?) zoning in larger magmatic overgrowth. Small semi-homogeneous unzoned core.	Heavily fractured. PLA/PLR - *fract, core very altered?*	N/A
72.2	408.7	10.0	444.3	14.4	Subhedral	Heterogeneous oscillatory zoning throughout.	Very lightly fractured. PLA/PLR - *fract*	MO
Grain_075	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous structure throughout	Heavily fractured. PLA/PLR - *fract*	N/A
Grain_076	N/A	N/A	N/A	N/A	Subhedral	Faint oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Heavily fractured.	N/A
Grain_082	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth and core.	Moderately fractured.	N/A

							PLA/PLR - *fract/incl*	
Grain_083	N/A	N/A	N/A	N/A	Subhedral	Faint oscillatory zoning in magmatic overgrowth. Faint patchy irregular zoning in heterogeneous core.	Very heavily fractured. PLA/PLR - *fract* *LI*	N/A
Grain_084	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning throughout.	Moderately fractured. PLA/PLR - *fract/incl*	N/A
85.1	399.0	10.1	411.1	12.2	Subhedral	Heterogeneous oscillatory zoning in magmatic overgrowth. Heterogeneous unzoned core.	Heavily fractured. PLA/PLR - *fract*	MO
Grain_087	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning throughout.	Very heavily fractured. PLA/PLR - *fract/incl*	N/A
88.1	408.6	10.2	436.4	14.2	Subhedral	Heterogeneous oscillatory and prominent sector zoning throughout magmatic overgrowth. Prominent irregular zoning in heterogeneous core.	Lightly fractured. PLA/PLR - *fract/incl*	MO
Grain_089	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning throughout larger	Heavily fractured. PLA/PLR - *fract*	N/A

						magmatic overgrowth. Small semi-homogeneous unzoned core.		
Grain_091	N/A	N/A	N/A	N/A	Anhedral	Cannot determine grain textures.	Very lightly fractured.	N/A
Grain_093	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous texture throughout.	Very heavily fractured. PLA/PLR – *fract*	N/A
Grain_094	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous irregular zoning throughout smaller magmatic overgrowth. Heterogeneous oscillatory zoning in large core.	Moderately fractured. PLA/PLR - *fract/incl* LI	N/A
95.1	625.3	25.7	1724.0	62.6	Subhedral	Heterogeneous oscillatory zoning throughout magmatic overgrowth. Homogeneous unzoned core.	Moderately fractured. PLA/PLR - *fract/incl*	Core
95.2	378.3	23.2	1422.2	97.3				MO
Grain_096	N/A	N/A	N/A	N/A	Subhedral	Faint oscillatory zoning throughout smaller magmatic overgrowth. Faint irregular patchy zoning in large semi-homogeneous core.	Lightly fractured.	N/A
Grain_103	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory and faint sector zoning throughout large magmatic	Heavily fractured. PLA/PLR - *fract/inc*	N/A

						overgrowth. Small heterogeneous unzoned core.		
Grain_104	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory zoning throughout smaller magmatic overgrowth. Patchy oscillatory zoning in large heterogeneous core.	Heavily fractured. PLA/PLR – *of core, assoc with incl/fract*	N/A

Table 6: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **CH02**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

3. Black Stockarton Moor zircons (SM01, SM02, JD01)

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
1.3	404.1	4.1	408.5	10.4	Euhedral	Heterogeneous oscillatory zoning throughout larger magmatic overgrowth. Small semi-homogeneous core.	PLA/PLR - *incl?*	Core
2.2	412.6	3.2	409.0	8.1	Euhedral	Heterogeneous prominent oscillatory zoning in larger magmatic overgrowth. Patchy chaotic irregular zoning in smaller heterogeneous core.	Lightly fractured. PLA/PLR - *fract* PR - *partial resorption in magmatic overgrowth (or may just be alt assoc with fracture)* *LI (apatites?)*	MO
2.5	886.0	12.1	888.8	17.7				Core
3.1	418.1	3.5	419.2	7.1	Subhedral	Heterogeneous prominent oscillatory zoning throughout larger magmatic overgrowth. Faint oscillatory zoning in small semi-homogeneous core.	Very lightly fractured. PLA/PLR - *fract*	MO

Table 7: Textural descriptions for all grains in **SM01**. Only 3 grains for this sample. Pale blue = grains affected by partial Pb loss. Pale red = emplacement grains. Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not used in age calculations.

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
3.1	416.7	3.9	412.9	11.5	Subhedral	Heterogeneous faint patchy oscillatory and sector zoning throughout. Cannot distinguish between core and rim.	Lightly fractured. PLA/PLR - *fract*	MO
3.2	411.9	3.9	410.9	11.3				Core?
4.2	403.7	4.3	407.4	12.7	Subhedral	Heterogeneous faint patchy irregular zoning throughout. Cannot distinguish between core and rim.	Lightly fractured. PLA/PLR - *fract*	MO?
7.2	413.1	4.5	423.1	12.5	Subhedral	Heterogeneous faint patchy oscillatory and sector zoning throughout. Cannot distinguish between core and rim.	Lightly fractured. PLA/PLR - *fract* PR - *partial resorption in magmatic overgrowth (or may just be alt assoc with fracture)*	Core?
7.3	402.4	4.4	409.9	11.3				MO
9.1	409.8	5.6	403.5	14.8	Subhedral	Heterogeneous prominent patchy oscillatory and sector (?) zoning throughout smaller magmatic overgrowth. Larger unzoned semi-homogeneous core.	PLA/PLR - *incl/vv light fractures*	MO
9.2	406.8	4.7	409.5	13.9				
9.3	415.3	4.8	413.2	11.4				Core
15.1	391.9	5.6	392.6	11.4	Subhedral	Faint patchy oscillatory zoning in	N/A	Core

						smaller magmatic overgrowth. Prominent sector zoning in large semi-homogeneous core.		
16.1	410.4	4.0	411.1	11.8	Subhedral	Heterogeneous faintly zoned magmatic overgrowth. Semi-homogeneous unzoned core (?).	Lightly fractured. PLA/PLR - *fract*	Core?
16.2	407.1	4.7	402.2	12.1				MO?
22.3	407.4	4.1	402.4	14.2	Subhedral	Heterogeneous faint patchy oscillatory and prominent sector (?) zoning in smaller magmatic overgrowth. Faint irregular zoning in large heterogeneous core.	PLA/PLR - *grain edges*	Core
27.2	415.9	4.8	422.5	14.3	Subhedral	Heterogeneous oscillatory and sector zoning throughout magmatic overgrowth. Heterogeneous core? Cannot fully distinguish between core and rim.	Heavily fractured. PLA/PLR - *fract* If present, very complex (shape, structure etc) core.	MO?
30.1	414.8	4.7	419.0	15.8	Subhedral	Heterogeneous structure throughout. Cannot fully distinguish between core and rim.	PLA/PLR	Core?
32.1	411.6	4.9	417.7	11.3	Subhedral	Heterogeneous patchy oscillatory	N/A	Core?

						and sector zoning throughout. Cannot distinguish between core and rim.		
34.1	401.3	4.5	401.8	13.9	Subhedral	Faint oscillatory and sector zoning throughout larger magmatic overgrowth. Small semi-homogeneous unzoned core.	Lightly fractured. PLA/PLR – *fract*	MO
37.1	409.8	4.5	417.4	13.1	Subhedral	Heterogeneous patchy oscillatory and prominent sector zoning throughout. Cannot distinguish between core and rim.	N/A	Core?
37.2	412.5	4.6	405.4	12.0				MO?
38.3	411.5	4.6	417.2	11.7	Subhedral	Heterogeneous patchy oscillatory and sector (?) zoning throughout larger magmatic overgrowth. Small unzoned heterogeneous core. Poorly defined core - rim boundary.	PLA/PLR - *fract/topographic low*	MO
38.4	412.5	4.8	410.1	14.9				Core
38.5	409.5	4.2	405.1	14.3				MO

Table 8: Textural descriptions for all **concordant** points in **SM02**. Pale blue = Pb loss/alteration grains. Pale red = emplacement grains. Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains did contain discordant points, not used in age calculations.

Zircon ID	206Pb/238U age (Ma)	2σ	207Pb/235U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
Grain_001	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout.	Heavily fractured. PLA/PLR. *LI.*	N/A
Grain_002	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout.	Very heavily fractured. Broken grain. PLA/PLR.	N/A
5.1	1740.8	90.9	3469.4	59.6	Subhedral	Complex internal structure, heterogeneous zoning throughout.	Lightly fractured. PLA/PLR associated with fractures.	MO
5.2	1568.9	34.2	3330.1	27.7				MO
5.3	1692.1	49.8	3443.1	37.4				Core?
Grain_006	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure.	Very lightly fractured. PLA/PLR. Very small grain.	N/A
8.1	401.0	5.5	415.7	13.7	Subhedral	Complex internal structure, heterogeneous zoning throughout.	Lightly fractured. PLA/PLR.	MO?
Grain_010	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous oscillatory and sector zoning throughout. Narrow zones.	Lightly fractured. Broken grain. PLA/PLR.	N/A
Grain_011	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	PLA/PLR?	N/A
12.1	391.9	5.8	417.6	17.5	Subhedral	Complex internal structure.	Moderately fractured. PLA/PLR.	Core?

13.1	369.6	7.9	444.7	36.8	Subhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	Lightly fractured. Large inclusion in core (?). PLA/PLR.	MO?
Grain_014	N/A	N/A	N/A	N/A	Subhedral (broken)	Complex internal structure.	Very heavily fractured. PLA/PLR.	N/A
Grain_017	N/A	N/A	N/A	N/A	Subhedral (broken)	Complex internal structure.	Very heavily fractured. PLA/PLR.	N/A
Grain_018	N/A	N/A	N/A	N/A	Euhedral	Semi-homogeneous internal structure. Unzoned.	Lightly fractured. **Apatite?**	N/A
Grain_019	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	Moderately fractured. PLA/PLR.	N/A
Grain_020	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout.	Very heavily fractured. PLA/PLR.	N/A
Grain_021	N/A	N/A	N/A	N/A	Subhedral	Prominent oscillatory zoning throughout. Narrow zones.	PLA/PLR.	N/A
Grain_023	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure.	Large central inclusion. Very small grain.	N/A
Grain_024	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous internal structure. Unzoned.	**Apatite?**	N/A
Grain_025	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout. Narrow cross-cutting zones.	PLA/PLR.	N/A

Grain_026	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure, heterogeneous zoning throughout.	Lightly fractured. Very small grain.	N/A
Grain_028	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	Very lightly fractured. PLA/PLR.	N/A
29.1	422.6	10.5	439.4	13.1	Subhedral	Complex internal structure, heterogeneous zoning throughout.	Heavily fractured. PLA/PLR.	Core?
31.1	427.8	5.2	503.6	18.2	Subhedral	Complex internal structure.	N/A	Core?
31.2	410.3	5.0	421.6	15.1				MO?
33.1	408.6	5.4	441.8	23.5	Euhedral	Complex internal structure, heterogeneous zoning throughout. Narrow cross-cutting zones.	Very lightly fractured. PLA/PLR.	
Grain_035	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	Lightly fractured. PLA/PLR.	N/A
Grain_036	N/A	N/A	N/A	N/A	Subhedral (broken)	Complex internal structure.	Very heavily fractured. PLA/PLR.	N/A
Grain_039	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure.	Very heavily fractured. PLA/PLR.	N/A
Grain_040	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	Large mineral inclusion in zircon core (?). PLA/PLR.	N/A

41.1	403.2	10.4	424.5	27.3	Subhedral	Complex internal structure, heterogeneous zoning throughout.	Heavily fractured. PLA/PLR.	N/A

Table 9: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **SM02**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

Zircon ID	206Pb/238 U age (Ma)	2σ	207Pb/235 U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
JD01m1_5.1	406.7	9.9	412.6	7.5	Subhedral	Heterogeneous prominent oscillatory zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	PLA/PLR within core.	Core
JD01m1_5.2	422.8	10.6	420.6	8.2				MO
JD01m1_6.2	407.7	10.3	414.0	11.2	Subhedral	Heterogeneous oscillatory zoning throughout magmatic overgrowth. Semi-homogeneous unzoned core.	Moderately fractured. PLA/PLR in core and overgrowth, associated with fractures.	MO
JD01m1_8.1	418.5	11.0	414.6	14.4	Subhedral	Heterogeneous patchy irregular zoning in magmatic overgrowth. Faint oscillatory zoning in heterogeneous core.	Lightly fractured. PLA/PLR in core. Fracture related.	MO
JD01m1_13.1	423.5	10.6	425.3	9.9	Subhedral	Heterogeneous faint oscillatory zoning in smaller magmatic overgrowth. Large heterogeneous unzoned core.	Heavily fractured. PLA/PLR in core and overgrowth, fracture related. PR – *slight resorption along core-rim boundary?*	Core
JD01m1_18.1	421.2	10.7	420.6	15.1	Subhedral	Complex structure throughout. Faint patchy oscillatory zoning within smaller	Large inclusion overlaps core. PLA/PLR in core	Core?

						magmatic overgrowth (?). Larger heterogeneous unzoned core (?).	and overgrowth, inclusion related.	
JD01m1_19.1	418.6	10.7	427.0	10.3	Subhedral	Heterogeneous prominent oscillatory and faint sector (?) zoning throughout larger magmatic overgrowth. Smaller faintly zoned semi-homogeneous core.	PLA/PLR in magmatic overgrowth.	Core
JD01-m2_22.1	422.4	11.0	423.2	9.1	Subhedral	Complex internal structure. Prominent oscillatory zoning within margins. Patchy irregular zoning within central portion of grain.	Very lightly fractured. PLA/PLR throughout.	Core?
JD01-m2_22.2	399.6	10.4	399.4	16.8				Core + MO?
JD01-m2_24.1	421.8	10.6	414.8	9.4	Subhedral	Complex internal structure.	Very lightly fractured. PLA/PLR throughout.	Core?
JD01-m2_38.1	417.4	11.1	419.7	12.4	Subhedral	Heterogeneous oscillatory zoning throughout smaller magmatic overgrowth. Faint patchy oscillatory zoning in larger semi-homogeneous core.	PLA/PLR in overgrowth.	MO

JD01-m2_54.1	417.1	10.7	422.8	7.9	Subhedral	Heterogeneous oscillatory zoning throughout. Core - rim boundary unclear.	Lightly fractured. PLA/PLR in core and overgrowth.	MO?
JD01-m2_60.1	417.3	12.0	419.2	14.3	Subhedral	Complex internal structure. Heterogeneous irregular zoning throughout. Cannot distinguish between core and rim.	Heavily fractured. PLA/PLR throughout.	Core?

Table 10: Textural descriptions for all **concordant** points in **JD01**. Pale blue = slight Pb loss/alteration grains. Pale red = emplacement grains, Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not used in age calculations.

Zircon ID	206Pb/238 U age (Ma)	2σ	207Pb/235 U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
m1_001	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	Lightly fractured. PLA in core (?). Grain too small for 30 μm laser spot.	N/A
m1_002	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure, heterogeneous zoning throughout. Narrow zones.	Heavily fractured. PLA/PLR in core (?). Grain too small for 30 μm laser spot.	N/A

m1_003	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous unzoned internal structure.	Very lightly fractured. Tabular shaped. Apatite?	N/A
m1_004	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure.	PR of core (?) and PLR and/or PLA of overgrowth. Grain and individual zones too small for 30 µm laser spot.	N/A
m1_7.1	1052.0	36.8	2780.2	40.5	Subhedral	Unzoned semi-homogeneous structure throughout. Faint core - rim boundary.	Poorly developed zircon or apatite?	Core?
m1_7.2	1171.5	40.2	2930.1	37.3				MO?
m1_009	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous faintly zoned (sector pattern) grain.	Lightly fractured. Grain too small for 30 µm laser spot.	N/A
m1_10.1	1100.9	39.0	2839.0	34.7	Euhedral	Faint patchy zoning (oscillatory?) throughout smaller magmatic overgrowth (?). Large homogeneous unzoned core (?).	Semi-developed zircon or apatite?	Core?
m1_10.2	1144.6	47.7	2866.7	44.4				MO?
m1_011	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous zoning throughout. Narrow zones.	Very heavily fractured. PLA in magmatic overgrowth and core.	N/A
m1_12.1	1422.4	54.2	3169.0	34.9	Subhedral (broken)	Faint patchy irregular zoning throughout smaller magmatic overgrowth (?). Large	Very lightly fractured. Uncertain if grain is a zircon.	Core

						semi-homogeneous unzoned core.		
m1_14.1	414.3	10.6	693.0	11.5	Subhedral	Faint patchy zoning (oscillatory?) throughout smaller magmatic overgrowth. Large heterogeneous unzoned core.	Very small grain (~70 μm). Moderately fractured. PLA/PLR of core - associated with fractures.	MO?
m1_15.1	977.2	32.1	2644.7	31.8	Subhedral	Unzoned semi-homogeneous structure throughout. Faint core – rim boundary.	Poorly developed zircon or apatite?	Core?
m1_15.2	1328.1	54.0	3092.4	42.4				MO?
m1_15.3	982.2	32.8	2670.4	28.3				Core?
m1_017	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure. Heterogeneous zoning throughout.	Grain too small for 30 μm laser spot.	N/A
m1_020	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure.	Heavily fractured. PLA in core. Grain too small for 30 μm laser spot.	N/A
m1_21.1	382.6	9.9	393.1	8.1	Subhedral	Heterogeneous faint oscillatory zoning throughout large magmatic overgrowth. Faint irregular zoning in small *elongated* heterogeneous core.	PLA/PLR – in MO and core. Associated with inclusions.	MO
m1_022	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous zoning in magmatic overgrowth. Complex core.	PR in core. Grain and individual zones too small for 30 μm laser spot.	N/A

m1_23.1	385.0	9.9	396.0	9.5	Subhedral	Semi-homogeneous faintly zoned (oscillatory?) smaller magmatic overgrowth. Large unzoned heterogeneous core. Poorly defined core - rim boundary.	PLA/PLR -possibly in core, associated with large inclusion.	Core
m2_001	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Apatite?	N/A
m2_002	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Faint core – rim boundary.	Apatite?	N/A
m2_003	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Faint core – rim boundary.	Very lightly fractured. Apatite?	N/A
m2_004	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Unzoned.	Very lightly fractured. Zircon shaped. Poorly developed zircon or an apatite?	N/A
m2_005	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Very lightly fractured. Apatite?	N/A
m2_006	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and very faintly zoned throughout.	Lightly fractured. Apatite?	N/A
m2_7.1	1095.7	38.3	2816.1	41.6	Subhedral	Faint patchy zoning (oscillatory?) throughout larger magmatic overgrowth (?). Faint irregular zoning in	Poorly developed zircon or apatite?	Core?
m2_7.2	1081.3	37.0	2801.1	37.7				MO?

						smaller semi-homogeneous core.		
m2_008	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Complex structure throughout.	Moderately fractured. Apatite?	N/A
m2_009	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Complex structure throughout.	Very lightly fractured. Apatite?	N/A
m2_010	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Complex structure throughout.	Moderately fractured. Apatite?	N/A
m2_011	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Very lightly fractured. Apatite?	N/A
m2_12.1	392.6	13.8	421.7	22.6	Subhedral	Prominent oscillatory zoning in very narrow magmatic overgrowth. Large heterogeneous core. Irregular core - rim boundary.	Very lightly fractured. PLA/PLR within core. PR along core-rim boundary.	Core?
m2_013	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout. Well defined core-rim boundary.	Very lightly fractured. Apatite?	N/A
m2_014	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Complex structure throughout. Unzoned.	Moderately fractured. Apatite?	N/A
m2_015	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous. Complex texture throughout.	Lightly fractured. Apatite?	N/A
m2_016	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Lightly fractured. Contains very small oscillatory zoned	N/A

							zircon inclusion. Apatite?	
m2_017	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Lightly fractured. Apatite?	N/A
m2_18.1	1187.3	43.3	2932.5	38.4	Subhedral	Faint patchy zoning (oscillatory?) throughout smaller magmatic overgrowth (?). Large semi-homogeneous unzoned core (?).	Very lightly fractured. Semi-developed zircon or apatite?	Core?
m2_18.2	1399.1	56.0	3095.9	41.1				MO?
m2_019	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous and very faintly zoned throughout.	Very lightly fractured. Apatite?	N/A
m2_020	N/A	N/A	N/A	N/A	Euhedral	Heterogeneous and very faintly zoned throughout.	Very lightly fractured. Apatite?	N/A
m2_021	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and unzoned throughout.	Apatite?	N/A
m2_023	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Faint core - rim boundary.	Zircon or an apatite?	N/A
m2_025	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Faint core - rim boundary.	Zircon or an apatite?	N/A
m2_026	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Apatite?	N/A
m2_027	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Apatite?	N/A
m2_028	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Very lightly fractured. Zircon or apatite?	N/A

m2_029	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and unzoned throughout.	Apatite?	N/A
m2_030	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure.	Very heavily fractured. PR and or PLR/PLA throughout grain.	N/A
m2_031	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and very faintly zoned at grain margin.	Very lightly fractured. Very small partial grain.	N/A
m2_032	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Zircon or apatite?	N/A
m2_033	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and very faintly zoned throughout.	Zircon or apatite?	N/A
m2_34.1	402.0	11.2	432.3	7.0	Subhedral	Heterogeneous prominent oscillatory zoning throughout smaller magmatic overgrowth. Faint patchy oscillatory zoning in very large dark heterogeneous core. Irregular core - rim boundary.	Heavily fractured. PLA/PLR at core - rim boundary, associated with fractures. PR within core and along core-rim boundary.	Core
m2_34.2	395.8	12.0	431.2	7.4				MO
m2_035	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout. Well defined core - rim boundary.	Apatite?	N/A
m2_036	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure. Heterogeneous	Moderately fractured. Very small grain. Grain	N/A

						oscillatory zoning throughout.	and individual zones too small for 30 µm laser spot.	
m2_037	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure. Heterogeneous zoning throughout.	Individual zones too small for 30 µm laser spot.	N/A
m2_039	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout. Faint core – rim boundary.	Apatite?	N/A
m2_040	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Unzoned.	Apatite?	N/A
m2_041	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Unzoned.	Apatite?	N/A
m2_042	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Very faintly zoned at grain margin.	Lightly fractured. Apatite?	N/A
m2_043	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous throughout. Unzoned.	Very lightly fractured. Apatite?	N/A
m2_044	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned. Well-developed core - rim boundary.	Very lightly fractured. Apatite?	N/A
m2_045	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous and very faintly zoned throughout.	Very lightly fractured. Apatite?	N/A
m2_046	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Very faintly zoned throughout.	Zircon or apatite?	N/A
m2_047	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and very faintly	Apatite?	N/A

						zoned at grain margin.		
m2_048	N/A	N/A	N/A	N/A	Euhedral	Semi-homogeneous. Faintly zoned throughout. Faint core – rim boundary.	Zircon or apatite?	N/A
m2_049	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned.	Apatite?	N/A
m2_050	N/A	N/A	N/A	N/A	Anhedral	Semi-homogeneous. Unzoned.	Unsure what mineral this grain is?	N/A
m2_051	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned.	Apatite?	N/A
m2_052	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned.	Apatite?	N/A
m2_053	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned.	Apatite?	N/A
m2_055	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Apatite?	N/A
m2_056	N/A	N/A	N/A	N/A	Euhedral	Semi-homogeneous and very faintly zoned throughout. Poorly developed core – rim boundary.	Poorly developed zircon? (zircon - shaped)	N/A
m2_057	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and faintly zoned throughout.	Apatite?	N/A
m2_058	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned.	Apatite?	N/A
m2_059	N/A	N/A	N/A	N/A	Subhedral	Prominent oscillatory zoning throughout magmatic overgrowth. Narrow zones. Complex core	Very lightly fractured. PLR and/or PLA in core and overgrowth.	N/A

						with irregular patchy zoning.		
m2_061	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and very faintly zoned throughout.	Apatite?	N/A
m2_062	N/A	N/A	N/A	N/A	Anhedral	Semi-homogeneous and very faintly zoned throughout. Well-defined core – rim boundary.	Apatite?	N/A

Table 11: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **JD01**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

4. Carsphairn zircons (CR05, CR06, CR07, CR08)

Zircon ID	206Pb/238 U age (Ma)	2σ	207Pb/235 U age (Ma)	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
1.1	364.7	8.0	362.7	23.1	Subhedral	Heterogeneous faint patchy oscillatory zoning throughout larger magmatic overgrowth. Smaller unzoned semi-homogeneous core (?).	Very heavily fractured. PLA in individual MO zones associated with fractures. PR of core or large (~70 µm) complexly shaped inclusion overlapping core (?). Very narrow dark rim around MO. LI	MO?
2.1	409.4	7.0	406.3	14.0	Subhedral	Heterogeneous faint patchy oscillatory and faint sector zoning throughout smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Heavily fractured. PLA in MO and core associated with fractures. Very narrow dark rim around MO.	Core?
2.2	408.5	6.4	414.3	11.7				MO
7.1	411.5	6.2	411.9	12.6	Subhedral	Heterogenous oscillatory and faint sector zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Heavily fractured. PLA in MO and core associated with fractures. Narrow dark rim around MO.	Core
7.2	405.6	6.7	408.0	15.4				MO
8.1	414.0	5.9	407.7	10.1	Subhedral			Core

8.3	417.9	6.4	412.2	17.6		Heterogeneous very faint patchy oscillatory zoning in very small magmatic overgrowth. Very large (> 100 µm width) semi-homogeneous unzoned core.	Moderately fractured. PLA in MO and core associated with fractures. Narrow partial dark rim around MO.	MO
10.1	406.1	6.6	405.3	17.9	Subhedral	Faint oscillatory zoning in magmatic overgrowth. Very faint patchy oscillatory zoning in heterogeneous core.	Very heavily fractured. PLA in MO and core associated with fractures. Narrow dark rim around MO. FI	Core
10.2	418.3	7.1	421.5	13.6				MO
11.1	419.2	6.6	422.7	12.9	Subhedral	Heterogenous structure throughout. Faint sector zoning observed. Very large core with narrow black unzoned magmatic overgrowth (?).	Lightly fractured. PLA and/or PLR in core (?) associated with fractures.	Core?
12.1	413.8	6.2	420.5	13.3	Subhedral	Unzoned to very faint heterogeneous oscillatory zoning in the smaller magmatic overgrowth. Faint sector and patchy oscillatory zoning in large heterogeneous core.	Lightly fractured. PLA in core associated with fractures. Narrow – broad dark rim around MO.	Core

15.1	410.6	7.6	416.0	14.1	Subhedral	Heterogeneous faint patchy oscillatory zoning in very small magmatic overgrowth. Very large (> 100 µm width) semi-homogeneous faintly zoned core.	Heavily fractured. PLA in core and mainly in MO, associated with fractures. Narrow dark rim around MO.	Core
15.2	419.8	6.2	418.7	12.2				MO
16.1	414.3	6.0	407.5	12.9	Euhedral	Complex structure throughout. Very large heterogeneous faintly zoned (oscillatory/sector) core with narrow black unzoned magmatic overgrowth (?).	Very heavily fractured. PLA and/or PLR of core, associated with fractures.	MO?
17.1	421.9	6.4	427.7	12.6	Anhedral	Heterogenous structure throughout. Cannot identify well defined boundary between core and rim.	Very heavily fractured. PLA and/or PLR (loss/overprinting of zoning) throughout grain, associated with fractures. Narrow to broad dark rim around MO.	Core?
18.1	412.0	6.1	413.2	11.1	Subhedral	Heterogenous faint patchy oscillatory zoning and sector zoning throughout larger magmatic overgrowth. Poorly	Lightly fractured. PLA in core and MO, spatially related to fractures and inclusions.	Core?
18.2	408.1	6.0	412.9	12.2				MO

						defined core - rim boundary. Smaller semi-homogeneous unzoned core.	Very narrow to narrow dark rim round MO. FI - variable in size (up to 100 µm in length).	
19.1	408.0	5.7	414.3	12.0	Euhedral	Complex structure throughout. Narrow to very narrow dark unzoned magmatic overgrowth (?). Very large (> 200 µm) heterogeneous core with faint patchy oscillatory zoning and prominent sector zoning throughout (?). Poorly defined core - rim boundary. Large semi-homogeneous mineral inclusion (*c.* 80 µm) overlaps centre of grain.	Very heavily fractured. PLA and/or PLR throughout, spatially related to fractures and inclusions. Uncertain if central semi-homogenous dark patch is a mineral inclusion or inherited core. FI - large	MO
23.1	426.7	6.8	426.6	16.8	Subhedral	Complex structure throughout. Narrow - broad dark unzoned magmatic overgrowth. Faint patchy oscillatory and sector zoning throughout very large heterogeneous core.	Heavily fractured. PLA and PLR throughout core, spatially related to fractures.	MO?
24.1	385.4	8.1	391.3	14.3	Subhedral	Heterogeneous oscillatory zoning	Very lightly fractured.	Core
24.2	412.6	6.0	419.9	14.0				Core

24.3	409.7	6.0	410.2	14.4		and faint sector zoning throughout magmatic overgrowth. Semi-homogeneous unzoned core.	PLA throughout MO, associated with fractures and inclusions. Narrow to very narrow dark rim around MO. FI	MO
25.1	410.4	6.3	413.8	11.5	Subhedral (broken)	Heterogeneous structure throughout magmatic overgrowth. Faint sector zoning in MO. Semi-homogeneous unzoned core.	Moderately fractured. PLA throughout, spatially related to fractures. Narrow to very narrow dark rim around MO.	Core
26.1	414.1	6.0	412.1	14.5	Subhedral	Complex structure throughout. Cannot distinguish between core and rim. Faint patchy oscillatory zoning throughout.	Very heavily fractured. PLA throughout, PLR of core (?) spatially related to fractures. Narrow to very narrow dark rim around MO. FI	MO?
26.2	413.6	6.1	416.8	13.4				MO
27.1	415.3	6.3	410.0	13.5	Subhedral	Faintly zoned throughout (oscillatory?). Cannot distinguish between core and rim.	Lightly fractured. PLA throughout, spatially related to fractures. Very narrow partial black rim around grain edge.	Core?
27.2	394.6	7.7	395.2	16.1				MO?
30.1	411.3	6.9	408.2	17.0	Subhedral	Complex structure throughout.	Moderately fractured.	Core

						Heterogeneous faint patchy oscillatory and sector zoning throughout smaller magmatic overgrowth. Large heterogeneous core.	PLA and PLR throughout core, spatially related to fractures. Very narrow to narrow partial black rim around grain edge. FI	
33.2	406.0	7.6	403.0	18.3	Subhedral	Complex structure throughout. Heterogeneous oscillatory and faint sector zoning throughout larger magmatic overgrowth. Small heterogeneous unzoned core.	Heavily fractured. PLA and PLR throughout core and MO, associated with fractures. Very narrow to narrow dark overgrowth around grain edge.	MO?
34.1	410.9	6.3	409.4	13.6	Subhedral	Complex structure throughout. Heterogeneous oscillatory and faint sector zoning throughout smaller magmatic overgrowth. Larger heterogeneous core with sector zoning. Continuous sector zoning from core to MO.	Very heavily fractured. PLA and PLR throughout core and MO, associated with fractures. Narrow dark overgrowth around grain edge.	Core?
35.1	409.5	6.1	410.4	12.4	Subhedral (broken)	Complex structure throughout. Heterogeneous faint	Heavily fractured. PLA and PLR throughout core	MO?

						oscillatory and sector zoning in magmatic overgrowth. Only partial core present due to broken grain.	and MO, associated with fractures. Very narrow to narrow dark overgrowth around grain edge. FI	
36.1	413.6	6.8	408.7	13.7	Subhedral	Complex structure throughout. Narrow - broad partial dark unzoned magmatic overgrowth. Faint patchy oscillatory and sector zoning throughout very large heterogeneous core.	Moderately fractured. PLA and/or PLR (?) throughout core, associated with fractures. FI	Core?
37.1	397.9	5.6	402.5	11.1	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning in magmatic overgrowth. Prominent sector zoning in semi-homogeneous core. Poorly defined core - rim boundary.	Lightly fractured. PLA of MO associated with fractures. Very narrow to broad dark overgrowth around grain edge.	Core
37.2	409.4	6.3	418.1	14.1				MO
38.2	412.8	6.4	423.3	13.6	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning throughout smaller magmatic overgrowth. Large heterogeneous core	Very heavily fractured. PLA and PLR throughout core and MO, associated with fractures. Very narrow to broad dark overgrowth around	MO

						with faint sector zoning.	grain edge.	
40.1	421.0	6.3	423.7	16.7	Subhedral	Complex structure throughout. Smaller heterogeneous faintly zoned magmatic overgrowth. Larger semi-homogeneous faintly zoned core.	Lightly fractured. PLA of MO associated with fractures. Narrow partial dark overgrowth around grain edge.	Core
40.2	413.7	6.0	416.0	12.1				MO
44.1	413.7	6.2	420.0	14.1	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory and sector zoning throughout larger magmatic overgrowth. Smaller heterogeneous unzoned core.	Moderately fractured. PLA and PLR throughout core and MO, associated with fractures. Very narrow - narrow dark overgrowth around grain edge. FI	MO
44.2	421.3	6.7	430.6	13.8				MO
45.1	419.5	11.3	419.2	14.7	Subhedral	Complex structure throughout. Larger heterogeneous unzoned magmatic overgrowth. Smaller semi-homogeneous unzoned core.	Very lightly fractured. FI (apatite shaped).	Core?
46.1	414.4	5.9	412.1	11.3	Subhedral	Complex structure throughout. Very narrow – broad dark unzoned magmatic overgrowth. Faint patchy zoning	Moderately fractured. PLA of core associated with fractures.	Core?

						(oscillatory?) throughout very large heterogeneous core		
47.1	417.4	7.9	418.2	16.9	Subhedral	Complex structure throughout. Very narrow – broad dark unzoned magmatic overgrowth. Faint patchy oscillatory (and sector?) zoning throughout very large heterogeneous core.	Moderately fractured. PLA and PLR throughout core, associated with fractures.	Core?
47.2	408.3	6.5	413.4	10.4				Core or MO?
47.3	410.6	6.4	418.0	12.1				Core or MO?
48.1	397.6	8.7	404.9	18.7	Subhedral	Complex structure throughout. Very narrow – broad dark unzoned magmatic overgrowth. Very large heterogeneous faintly zoned core.	Very heavily fractured. PLA of core associated with fractures.	Core
51.1	413.5	7.2	407.2	15.9	Subhedral (broken)	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning in magmatic overgrowth. Heterogeneous unzoned core. Difficult to distinguish between core and rim.	Lightly fractured. PLA and PLR throughout core, associated with fractures. PR of core, associated with outer very narrow - broad dark outer MO. FI	Core and MO?
52.1	415.0	7.8	415.4	11.8	Subhedral	Complex structure throughout. Smaller heterogeneous	Lightly fractured. PLA of core and MO associated with fractures.	Core?

						unzoned magmatic overgrowth. Large heterogeneous faintly zoned (oscillatory?) core.	Very narrow - narrow dark overgrowth around grain edge. FI	
56.1	426.1	11.1	427.7	10.1	Subhedral	Complex structure throughout. Narrow - broad dark unzoned magmatic overgrowth. Faint patchy zoning (sector?) throughout very large heterogeneous core.	Very heavily fractured. PLA of core associated with fractures.	Core?
57.1	407.1	6.2	415.2	9.2	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning in magmatic overgrowth. Heterogeneous core.	Moderately fractured. PLA of MO associated with fractures. Very narrow - narrow dark overgrowth around grain edge. FI	Core
59.2	413.5	6.0	414.0	13.0	Subhedral	Complex structure throughout. Very narrow - narrow dark unzoned magmatic overgrowth. Very large heterogeneous core with faint patchy oscillatory and sector zoning.	Very lightly fractured. PLA of core associated with fractures.	Core?
59.3	414.2	6.2	413.9	11.8				Core?

60.1	406.9	10.9	408.9	9.1	Subhedral	Complex structure throughout. Large heterogeneous magmatic overgrowth. Small semi-homogeneous unzoned core.	Zircon or apatite? Tabular shaped.	Core?
60.2	391.9	11.3	399.6	12.7				MO
62.1	408.3	7.3	398.6	13.8	Subhedral	Complex structure throughout. Very narrow - narrow dark unzoned magmatic overgrowth. Heterogeneous faint patchy oscillatory zoning in large heterogeneous magmatic core.	Lightly fractured. PLA of core associated with fractures.	
66.1	411.3	6.2	401.9	11.6	Anhedral	Complex structure throughout. Very narrow - narrow dark partial unzoned magmatic overgrowth. Very large heterogeneous core.	Lightly fractured. PLA of core associated with fractures. FI	Core?
66.2	413.3	5.8	414.0	11.7				Core?

Table 12: Textural descriptions for all **concordant** points in **CR05**. Pale blue = slight Pb loss/alteration grains. Pale red = emplacement grains, Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not used in age calculations.

Zircon ID	206Pb/238U age	2σ	207Pb/235U age	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
3.1	411.3	8.2	424.5	22.5	Subhedral	Heterogeneous faint patchy oscillatory and faint sector zoning throughout larger magmatic overgrowth. Small heterogeneous unzoned core.	Moderately fractured. PLA in MO and core, related to fractures. Narrow dark partial rim around MO.	MO
4.1	412.5	5.9	401.8	11.5	Subhedral	Very faint patchy oscillatory zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	Moderately fractured. PLA in MO and core, related to fractures. Narrow dark partial rim around MO.	Core
4.2	420.2	6.1	407.7	13.8				MO
5.1	382.8	12.3	408.4	12.3	Subhedral	Very faint patchy oscillatory zoning in smaller magmatic overgrowth. Poorly defined core - rim boundary. Larger semi-homogeneous unzoned core.	Moderately fractured. PLA in MO and core (?), related to fractures. Narrow dark partial rim around MO.	MO?
Grain_006	N/A	NA	N/A	N/A	Subhedral	Heterogeneous and complex structure throughout. No clear core – rim boundary.	Heavily fractured. PLA associated with fractures.	N/A
9.1	395.0	7.1	469.8	11.9	Subhedral	Smaller complex dark magmatic overgrowth. Large heterogeneous	Heavily fractured. PLA throughout grain, associated with fractures.	MO?

						faintly zoned (oscillatory?) core (?). Poorly defined core – rim boundary.	Loss of internal structure/zoning = TR of core and/or PLR across grain? FI	
13.1	411.5	5.7	423.0	12.2	Subhedral	Heterogeneous faint patchy oscillatory zoning and prominent sector zoning throughout larger magmatic overgrowth. Smaller heterogeneous unzoned core.	Moderately fractured. PLA and/or PLR throughout core and MO, associated with fractures (i.e., loss/overprinting of original zoning). PR of core by introduction of outermost dark magmatic growth zone. Fractures as conduit for this. Very narrow to broad dark rim around MO.	MO?
Grain_014	N/A	NA	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned too faintly zoned. Poorly developed core – rim boundary.	Very heavily fractured. PLA associated with fractures.	N/A
20.1	376.6	13.2	393.0	11.5	Subhedral	Heterogenous structure throughout. Unzoned magmatic overgrowth. Semi-homogeneous unzoned core.	Lightly fractured. PLA of core and MO associated with fractures. Broad to very narrow dark rim around edge of	Core

							grain.	
Grain_021	N/A	NA	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned. No clear core - rim boundary.	Very heavily fractured. PLA associated with fractures.	N/A
Grain_022	N/A	NA	N/A	N/A	Subhedral	Semi-homogeneous. Faintly zoned. Somewhat defined core – rim boundary. Small grain.	Heavily fractured. PLA associated with fractures.	N/A
28.1	400.3	7.0	449.9	12.5	Subhedral	Complex structure throughout. Broad dark unzoned magmatic overgrowth. Very faint patchy oscillatory zoning throughout very large heterogeneous core (?).	Heavily fractured. PLA and PLR throughout core, spatially related to fractures and inclusions. LI	Core?
Grain_029	N/A	NA	N/A	N/A	Anhedral	Heterogeneous. Complex internal structure. Very small grain.	Heavily fractured. Broken grain. Only small fragment preserved. PLA associated with fractures.	N/A
Grain_031	N/A	NA	N/A	N/A	Subhedral	Heterogeneous. Complex internal structure. Unzoned. Cannot distinguish between core and rim. Poorly defined core – rim boundary.	Very heavily fractured. PLA associated with fractures. FI	N/A

Grain_032	N/A	NA	N/A	N/A	Subhedral	Heterogeneous. Complex internal structure. Variable faint patchy zoning. Faint core - rim boundary.	Heavily fractured. PLA associated with fractures. LI	N/A
39.1	413.5	12.1	539.8	24.9	Subhedral	Heterogeneous faintly zoned smaller magmatic overgrowth. Larger semi-homogeneous unzoned core.	Heavily fractured. PLA of core and MO associated with fractures. Very narrow to broad dark overgrowth around grain edge.	Core
39.2	414.0	7.3	441.4	10.0				MO
Grain_041	N/A	NA	N/A	N/A	Subhedral	Heterogeneous. Faint patchy oscillatory zoning throughout magmatic overgrowth. Semi-homogeneous unzoned core. Narrow zones.	Heavily fractured. PLA associated with fractures.	N/A
42.1	410.0	6.1	423.0	12.1	Anhedral	Complex structure throughout. Very narrow - broad dark unzoned magmatic overgrowth. Large heterogeneous unzoned core.	Moderately fractured. PLA of core associated with fractures.	Core?
Grain_043	N/A	NA	N/A	N/A	Anhedral	Complex structure throughout. Unzoned. Small grain. Cannot identify core - rim boundary.	Moderately fractured. PLA associated with fractures.	N/A

49.1	413.1	5.5	431.0	8.1	Subhedral	Complex structure throughout. Very narrow to broad unzoned dark magmatic overgrowth. Very large heterogeneous core with faint patchy sector zoning.	Very lightly fractured. PLA of core associated with fractures and inclusions. LI	Core?
50.1	398.8	6.6	412.2	15.7	Euhedral	Complex structure throughout. Cannot distinguish between core and rim, no boundary present.	Heavily fractured. PLA and PLR throughout grain, associated with fractures and large mineral inclusion. Very narrow to narrow dark overgrowth around grain edge. FI	MO?
Grain_053	N/A	NA	N/A	N/A	Subhedral	Heterogeneous. Complex structure throughout. Faint patchy zoning. Narrow discontinuous zones. Small grain. Complex core – rim boundary.	Heavily fractured. PLA associated with fractures.	N/A
Grain_054	N/A	NA	N/A	N/A	Subhedral	Heterogeneous. Complex structure throughout. Faint patchy oscillatory zoning. Very narrow zones. Complex core – rim boundary.	Moderately fractured. PLA associated with fractures.	N/A

Grain_055	N/A	NA	N/A	N/A	Subhedral	Heterogeneous. Complex structure throughout. Unzoned. Small grain. Cannot identify core – rim boundary.	Lightly fractured. PLA associated with fractures. Large inclusion in central portion of grain.	N/A
58.1	367.0	6.1	623.9	16.1	Subhedral	Complex structure throughout. Smaller heterogeneous unzoned magmatic overgrowth. Large heterogeneous unzoned core.	Heavily fractured. PLA and PLR throughout core and MO, spatially related to fractures. Very narrow - broad partial dark overgrowth around grain edge.	Core
Grain_061	N/A	NA	N/A	N/A	Subhedral	Homogeneous throughout. Unzoned.	Zircon or apatite?	N/A
63.1	404.4	7.1	436.6	17.1	Subhedral (broken)	Complex structure throughout. Heterogeneous faint oscillatory zoning in larger magmatic overgrowth. Large semi-homogeneous unzoned core.	Part of grain spot was on is lightly fractured. Grain broken in half.	Core
64.1	402.4	6.5	419.6	12.7	Anhedral	Complex structure throughout. Heterogeneous faint oscillatory zoning in smaller magmatic overgrowth. Very large semi-	Moderately fractured. PLA of core associated with fractures. Very narrow - broad dark	Core

						homogeneous unzoned core.	overgrowth around grain edge.	
65.1	330.4	12.4	448.4	16.6	Subhedral	Complex structure throughout. Very narrow to broad unzoned dark magmatic overgrowth. Large heterogeneous unzoned core.	Very lightly fractured. PLA of core associated with fractures. Complex shaped core – PR of core related to outermost dark MO?	Core

Table 13: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **CR05**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

Zircon ID	**206Pb/238U age**	**2σ**	**207Pb/235U age**	**2σ**	**Grain shape**	**Zoning pattern**	**Other (e.g., surface fractures, alteration, resorption etc)**	**Location of laser spot**
1.1	426.1	10.7	428.1	10.0	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning in smaller magmatic overgrowth. Faint patchy sector and convolute (?) zoning in very large heterogeneous core.	Heavily fractured. PLA of core associated with fractures. PR of inner portion of core (?). Very narrow - narrow dark overgrowth around grain edge.	MO
1.2	406.5	10.1	414.5	10.9				Core

3.1	411.3	10.9	419.3	5.1	Subhedral	Complex structure throughout. Heterogeneous faint patchy zoning (oscillatory and sector?) throughout. Cannot distinguish between core and rim.	Heavily fractured. PLA throughout associated with fractures. Very narrow to broad dark overgrowth around grain edge. Overgrowth 'spilling' into central portion of grain. PR or late-stage magma movement through fractures?	?
5.1	408.7	10.2	415.5	9.8	Subhedral	Complex structure throughout. Narrow - broad dark unzoned speckly magmatic overgrowth. Very large semi-homogeneous core with faint patchy oscillatory zoning.	Moderately fractured. PLA in core, associated with fractures.	Core
6.1	411.9	10.3	409.8	10.0	Euhedral	Complex structure throughout. Narrow - broad dark unzoned speckly magmatic overgrowth. Very faint patchy oscillatory zoning in very large heterogeneous core.	Moderately fractured. PLA in core, associated with fractures. FI	Core?
7.1	415.5	10.2	416.8	7.9	Euhedral	Complex structure throughout. Very faint patchy	Lightly fractured. PLA in core, associated with	MO?

						oscillatory zoning in smaller magmatic overgrowth. Very large heterogeneous core.	fractures. Very narrow to broad dark speckly overgrowth around grain edge. Complex shaped texturally very variable core = PR or TR of core?	
10.2	440.0	12.2	450.2	11.2	Subhedral	Complex structure throughout. Heterogeneous oscillatory (?) zoning throughout. No clear core – rim boundary. Cannot distinguish between core and rim.	Heavily fractured. Very large grain. PLA throughout associated with fractures. Very narrow to broad dark speckly overgrowth around grain edge.	?
11.1	415.4	10.5	423.1	10.9	Subhedral	Heterogeneous unzoned smaller magmatic overgrowth. Very large semi-homogeneous unzoned core.	Lightly fractured. PLA in core and overgrowth, associated with fractures. Very narrow to broad partial dark overgrowth around grain edge. FI	Core
12.1	404.1	10.4	412.6	12.3	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning in magmatic overgrowth. Semi-	Lightly fractured. PLA in core and overgrowth, associated with fractures. Very narrow to broad partial dark	

						homogeneous unzoned core.	overgrowth around grain edge. Loss of original zoning, in places a heterogeneous unzoned MO = PR or PLR in MO?	
14.1	414.5	11.0	421.8	13.6	Subhedral	Narrow – broad dark unzoned magmatic overgrowth. Heterogeneous faint patchy oscillatory (?) zoning throughout large heterogeneous core.	Moderately fractured. PLA in core and MO, associated with fractures.	Core
15.1	407.1	10.2	405.3	11.5	Subhedral (broken)	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning and prominent sector throughout larger magmatic overgrowth. Small partial semi-homogenous unzoned core.	Moderately fractured. PLA in MO, associated with fractures. Very narrow partial dark overgrowth around grain edge. FI	Core
15.2	410.9	10.2	406.6	9.7				MO
16.1	391.8	10.0	399.7	10.8	Subhedral	Heterogeneous patchy oscillatory zoning and prominent sector zoning throughout very large magmatic overgrowth. Very small semi-	Moderately fractured. PLA in MO, associated with fractures. Very narrow to narrow partial dark overgrowth	MO
16.2	407.3	10.4	417.5	10.9				MO
16.3	408.8	10.1	410.5	10.8				MO

						homogeneous unzoned core.	around grain edge.	
17.1	411.7	10.4	412.3	8.8	Subhedral	Heterogeneous faint patchy oscillatory and sector zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	Lightly fractured. PLA in MO and core, associated with fractures. Very narrow to narrow dark overgrowth around grain edge.	MO
17.2	409.6	10.4	418.2	10.0				Core
18.1	412.3	10.0	405.1	9.1	Subhedral	Complex structure throughout. Heterogeneous patchy oscillatory zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	PLA in core, associated with an inclusion (?). Very narrow to broad dark overgrowth around grain edge.	Core?
18.2	408.6	9.9	416.7	6.8				Core?
19.1	409.9	10.3	414.1	10.2	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory and sector zoning throughout large magmatic overgrowth(s). Small semi-homogeneous unzoned core.	Very lightly fractured. PLA in MO, associated with fractures and inclusions (?). Very narrow to broad dark overgrowth around grain edge. FI	Core
19.2	421.6	10.7	416.6	11.2				MO
19.3	408.1	10.6	411.1	13.6				MO
22.1	499.6	16.8	500.9	12.6	Subhedral	Complex structure throughout. Very narrow - broad dark unzoned magmatic overgrowth. Very large heterogeneous	Very lightly fractured. PLA in MO, associated with fractures.	Core

						unzoned inherited core.	FI	
24.1	401.2	10.9	404.8	8.6	Subhedral	Complex structure throughout. Heterogeneous faint patchy zoning in smaller magmatic overgrowth (?). Larger heterogeneous core. Core may contain faint patchy sector zoning.	Heavily fractured. PLA in core and MO, associated with fractures. Very narrow to broad dark overgrowth around grain edge. FI	Core?
24.2	416.4	10.3	417.5	8.9				Core?
26.2	1451.4	34.0	1473.6	18.3	Subhedral	Complex structure throughout. Heterogeneous prominent oscillatory zoning throughout larger magmatic overgrowth. Smaller heterogeneous unzoned inherited (?) core.	Lightly fractured. PLA in MO and core, associated with fractures. PLR within core (?). Very narrow to broad dark partial overgrowth around grain edge. Outermost overgrowth ‘spilling’ onto (overlaps) central portion of overgrowth.	MO
26.3	1447.1	32.6	1474.6	10.7				MO
27.1	413.1	10.3	410.2	12.6	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory (and sector?) zoning throughout larger	Very lightly fractured. Very narrow to broad dark overgrowth around grain edge.	MO?
27.2	411.7	10.2	412.5	8.3				MO?

						magmatic overgrowth. Small semi-homogeneous unzoned core.	FI	
30.1	415.7	10.6	415.7	15.5	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory and sector zoning throughout magmatic overgrowth and heterogeneous core.	Moderately fractured. PLA in MO, associated with fractures and inclusions. Narrow to broad dark speckly overgrowth around grain edge. FI	Core
30.2	413.2	10.6	414.7	13.9				Core?
30.3	412.0	10.8	412.6	17.5				MO
31.2	447.0	11.4	444.4	8.1	Anhedral	Larger semi-homogeneous faintly zoned magmatic overgrowth. Small heterogeneous unzoned core.	Very lightly fractured. PLA in core, associated with fractures. Very narrow dark overgrowth around grain edge.	Core
37.1	491.9	14.7	492.8	8.7	Subhedral	Complex structure throughout. Very narrow - broad dark unzoned magmatic overgrowth. Very large inherited (?) heterogeneous core with chaotic/irregular zoning.	Heavily fractured. PLA in core, associated with fractures. FI	Core?
37.2	408.9	10.2	405.8	11.5				Core?
39.1	418.5	10.8	426.6	10.8	Subhedral	Complex structure throughout. Narrow dark unzoned smaller	Heavily fractured. PLA and PLR (?) in core, associated	Core?

						magmatic overgrowth. Larger heterogeneous core with faint patchy oscillatory zoning.	with fractures. FI	
40.1	415.6	11.4	413.5	16.9	Subhedral	Complex structure throughout. Narrow partial dark unzoned smaller magmatic overgrowth. Very large faintly zoned heterogeneous core.	Lightly fractured.	Core
42.1	409.9	10.7	417.5	15.0	Anhedral	Complex structure throughout. Heterogeneous oscillatory zoning throughout larger magmatic overgrowth. Small homogeneous unzoned core.	Lightly fractured. PLA in MO, associated with fractures. Very narrow to broad dark overgrowth around grain edge.	Core
42.2	419.7	11.0	425.6	17.7				MO
42.3	411.4	10.6	403.2	13.2				MO
43.1	413.0	10.2	417.1	9.6	Subhedral	Complex structure throughout. Very narrow to broad partial dark unzoned small magmatic overgrowth. Very large heterogeneous unzoned core.	Moderately fractured. PLA in core, associated with fractures.	Core?
44.1	414.2	10.7	411.6	12.2	Euhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory and sector zoning throughout magmatic	Lightly fractured. PLA in core and MO, associated with fractures. Narrow to very narrow partial	Core
44.2	413.4	10.4	413.0	12.5				MO

						overgrowth and heterogeneous core.	dark overgrowth around grain edge.	
47.1	410.6	10.4	407.3	10.8	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory and sector zoning throughout larger magmatic overgrowth. Smaller unzoned homogeneous core.	Lightly fractured. PLA in MO, associated with fractures. Very narrow to broad dark overgrowth around grain edge.	Core
49.1	410.4	10.4	415.8	13.6	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory and sector zoning throughout. Poorly defined core – rim boundary.	Lightly fractured. PLA associated with inclusions and fractures. Very narrow to broad dark overgrowth around grain edge. FI	MO?
50.1	408.5	10.6	415.5	12.6	Anhedral	Complex structure throughout. Very narrow to narrow partial dark unzoned smaller magmatic overgrowth. Very large faintly zoned heterogeneous core.	Lightly fractured. PLA in core, associated with fractures.	Core?
50.2	414.5	10.6	415.5	10.7				Core?
57.1	416.8	14.5	418.4	9.5	Subhedral	Faint patchy sector zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	Very lightly fractured. Very narrow to broad dark overgrowth around	MO

							grain edge.	
59.1	418.9	10.5	421.7	7.9	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory and sector zoning throughout smaller magmatic overgrowth. Larger semi-homogeneous unzoned core. Poorly defined core – rim boundary.	Moderately fractured. PLA of MO associated with inclusions and fractures. Very narrow to narrow dark overgrowth around grain edge.	Core
59.2	418.3	10.5	408.2	10.5				MO?
61.1	424.8	12.4	429.4	31.9	Subhedral	Complex structure throughout. Very narrow to broad dark unzoned smaller magmatic overgrowth. Very large heterogeneous chaotically zoned core.	PLA? Outermost dark overgrowth 'spilling' into core.	Core?
63.1	424.0	10.9	433.0	14.1	Subhedral (broken)	Complex structure throughout.	Very heavily fractured. Very narrow to narrow dark overgrowth around grain edge.	Core?
65.1	413.3	10.5	411.5	9.2	Subhedral	Complex structure throughout. Very narrow to broad partial dark unzoned smaller magmatic overgrowth. Very	Heavily fractured. PLA in core, associated with fractures.	Core?

						large heterogeneous unzoned core.		

Table 14: Textural descriptions for all **concordant** points in **CR06**. Pale blue = slight Pb loss/alteration grains. Pale red = emplacement grains, Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains did contain discordant points, not used in age calculations.

Zircon ID	206Pb/238 U age	2σ	207Pb/23 5U age	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
2.1	412.2	10.6	423.3	15.4	Euhedral	Complex structure throughout. Smaller unzoned magmatic overgrowth (?). Faint broad zoning throughout large core. Poorly defined core - rim boundary.	Very narrow dark overgrowth around grain edge.	Core?
Grain_004	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous irregular zoning. Narrow zones. Overlapping zones.	Very lightly fractured. PLA associated with fractures. Dark unzoned outermost overgrowth. FI	N/A
8.1	429.4	12.2	444.3	22.8	Subhedral	Complex structure throughout. Heterogeneous faint oscillatory zoning throughout larger magmatic overgrowth. Smaller semi-homogeneous unzoned core.	Moderately fractured. Very narrow to narrow dark overgrowth around grain edge. PLA in MO and core, associated with fractures.	MO?
8.2	413.4	10.6	439.6	12.2				MO?
Grain_009	N/A	N/A	N/A	N/A	Euhedral	Complex structure throughout. Heterogeneous irregular zoning throughout magmatic overgrowth. Zones	Heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth. FI	N/A

						too narrow for 30 µm laser spot.		
13.1	399.1	10.0	443.9	11.9	Subhedral	Complex structure throughout. Heterogeneous faint patchy oscillatory zoning throughout smaller magmatic overgrowth. Larger heterogeneous unzoned core.	Heavily fractured. Very narrow to narrow dark overgrowth around grain edge. PLA in MO and core, associated with fractures. PR of core (?). FI	Core
13.2	410.9	10.3	426.0	12.3				MO
Grain_0 20	N/A	N/A	N/A	N/A	Subhedral (broken)	Complex structure throughout. Zones too narrow for 30 µm laser spot.	Heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth.	N/A
Grain_0 21	N/A	N/A	N/A	N/A	Euhedral	Complex structure throughout. Zones too narrow for 30 µm laser spot.	Heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth. FI	N/A
Grain_0 23	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Zones too narrow for 30 µm laser spot.	Very heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth.	N/A
Grain_0 25	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Zones too narrow for 30 µm laser spot. Lots of	Moderately fractured. PLA associated with fractures and	N/A

						overlapping and cross-cutting zones.	inclusions. Dark unzoned outermost overgrowth. FI	
Grain_028	N/A	N/A	N/A	N/A	Subhedral	Grain too small for analysis.	Very heavily fractured. Dark unzoned outermost overgrowth.	N/A
Grain_029	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. Dark unzoned outermost overgrowth.	N/A
Grain_032	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. Dark unzoned outermost overgrowth. Messy internal texture, too altered for analysis.	N/A
Grain_034	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous unzoned structure throughout.	Very heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth.	N/A
35.1	347.6	12.3	432.9	11.0	Subhedral	Complex structure throughout. Heterogeneous patchy oscillatory zoning throughout	Heavily fractured. PLA in core and MO, associated with fractures and inclusions.	

						smaller magmatic overgrowth. Irregular patchy zoning in large heterogeneous core.	PR of core or just complex texture? Very narrow to narrow partial dark overgrowth around grain edge. FI	
Grain_036	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous irregular zoning.	Very heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth.	N/A
38.1	423.2	17.5	440.0	27.4	Subhedral	Small semi-homogeneous broad dark speckly unzoned magmatic overgrowth. Large heterogeneous unzoned core.	Moderately fractured. PLA in core associated with fractures and inclusions. LI	Core
Grain_041	N/A	N/A	N/A	N/A	Subhedral (broken)	Complex structure throughout.	Very lightly fractured. PLA associated with fractures. Dark unzoned outermost overgrowth.	N/A
45.1	396.8	11.9	410.1	7.3	Subhedral	Heterogeneous patchy oscillatory and sector zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Moderately fractured. PLA in core and MO associated with fractures. Very narrow to narrow dark	MO

							overgrowth around grain edge.	
46.1	404.6	11.3	426.7	9.2	Subhedral	Small semi-homogeneous broad dark faintly zoned magmatic overgrowth. Faint patchy zoning in large heterogeneous core.	Lightly fractured. PLA in core associated with fractures.	MO
46.2	420.2	12.9	464.9	12.4				Core
Grain_048	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth.	N/A
Grain_051	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. PLA associated with fractures. Dark unzoned outermost overgrowth.	N/A
Grain_052	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. PLA associated with fractures. Grain too small for 30 µm laser spot. Dark unzoned outermost overgrowth.	N/A
Grain_053	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous irregular patchy	Very heavily fractured. PLA associated with fractures.	N/A

						zoning. Very narrow zones.	Dark unzoned outermost overgrowth. FI	
Grain_054	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Zones too narrow for 30 µm laser spot. Zoning is irregular/messy.	Moderately fractured. PLA? Dark unzoned outermost overgrowth. FI	N/A
Grain_055	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Zones too narrow for 30 µm laser spot.	Heavily fractured. Partially altered. Dark unzoned outermost overgrowth. FI	N/A
Grain_056	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Zones too narrow for 30 µm laser spot.	Lightly fractured. PLA? Dark unzoned outermost overgrowth. FI	N/A
Grain_058	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Zoning is irregular. Zones too narrow for 30 µm laser spot.	Very heavily fractured. Very altered, associated with fractures. Complex shaped dark core = PR or holes in grain? Dark unzoned outermost overgrowth. FI	N/A

60.1	408.9	10.2	709.2	37.4	Subhedral	Small semi-homogeneous very narrow to broad dark magmatic overgrowth. Very large heterogeneous core.	Heavily fractured. PLA in core associated with fractures and inclusions. FI	Core?
Grain_062	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. Partial grain, too small for 30 µm laser spot. Dark unzoned outermost overgrowth. FI	N/A
Grain_064	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Zones too small for 30 µm laser spot.	Very lightly fractured. Dark unzoned outermost overgrowth. FI	N/A

Table 15: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **CR06**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

Zircon ID	206Pb/238U age	**2σ**	207Pb/235U age	**2σ**	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
2.2	407.1	5.1	405.1	12.0	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Large heterogeneous faintly zoned rounded core.	Moderately fractured. PLA in core associated with fractures and inclusions. LI	Core
2.3	445.2	7.1	444.9	10.7				MO
6.1	415.3	5.2	417.1	12.4	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger semi-homogeneous unzoned rounded core.	Very heavily fractured. PLA in MO associated with fractures. FI	Core
7.1	419.5	6.1	417.7	14.1	Anhedral (broken)	Smaller semi-homogeneous unzoned magmatic overgrowth. Very large semi-homogeneous unzoned partial rounded core.	Heavily fractured. PLA in core associated with fractures. FI	Core
8.1	433.2	6.9	434.0	12.4	Subhedral	Smaller homogeneous unzoned magmatic overgrowth. Very faint patchy oscillatory zoning in larger heterogeneous subangular core.	Moderately fractured. PLA in core associated with fractures. FI	Core
12.1	406.8	4.8	411.2	12.4	Subhedral (broken)	Very faint oscillatory and sector zoning in	*Unfractured.* FI	Core
12.2	405.9	4.4	407.3	11.0				MO

						magmatic overgrowth. Very faint zoning in semi-homogeneous rounded core.		
13.1	415.6	5.0	419.6	13.5	Subhedral	Very faint patchy oscillatory zoning throughout smaller magmatic overgrowth. Larger semi-homogeneous unzoned rounded core.	Heavily fractured. PLA in MO associated with fractures. FI	Core
16.1	418.2	5.0	411.3	12.5	Subhedral (broken)	Very faint patchy oscillatory zoning throughout larger magmatic overgrowth. Smaller semi-homogeneous unzoned rounded core.	Lightly fractured. PLA in MO associated with fractures.	Core
17.1	414.6	5.9	409.3	12.2	Subhedral	Faint oscillatory zoning throughout smaller magmatic overgrowth. Larger heterogeneous unzoned core.	Lightly fractured. PLA in core and MO associated with fractures.	Core
17.2	402.2	5.4	411.5	10.2				MO
18.2	434.6	6.5	433.6	11.9	Subhedral	Semi-homogeneous smaller unzoned magmatic overgrowth. Very faint patchy zoning in larger heterogeneous subrounded core.	Heavily fractured. PLA in core associated with fractures. FI	MO
19.1	417.6	5.4	417.5	11.2				Core

19.2	412.3	6.1	414.3	11.0	Subhedral (broken)	Very faint patchy oscillatory (and sector?) zoning in smaller magmatic overgrowth. Larger homogeneous unzoned rounded core.	Lightly fractured. PLA in core associated with fractures. FI	MO
20.1	419.5	5.2	414.5	12.1	Subhedral	Faint patchy oscillatory zoning throughout smaller partial magmatic overgrowth. Faint patchy oscillatory zoning in larger heterogeneous core.	Moderately fractured. PLA in core and MO associated with fractures. PR of core or overlap by mineral inclusion? FI	MO?
22.1	404.9	4.8	408.0	11.4	Euhedral	Small semi-homogeneous unzoned magmatic overgrowth. Large semi-homogeneous unzoned subrounded core.	Moderately fractured. PLA in core and MO associated with fractures. FI	Core
25.1	413.4	6.1	415.3	10.9	Subhedral	Very faint oscillatory zoning in small magmatic overgrowth. Larger homogeneous unzoned subrounded core.	Very lightly fractures. PLA in MO associated with fractures.	Core
27.1	416.4	4.8	408.4	11.7	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger heterogeneous	Moderately fractured. PLA in core and MO associated	Core

						unzoned subangular core.	with fractures. LI	
28.2	432.4	6.0	429.9	10.9	Subhedral	Semi-homogeneous small partial unzoned magmatic overgrowth. Large subrounded heterogenous core with faint zoning.	Very lightly fractured. PLA throughout, sometimes associated with fractures. FI	MO
30.1	416.7	5.1	410.1	11.5	Subhedral	Faint oscillatory zoning throughout smaller magmatic overgrowth. Large semi-homogeneous unzoned subrounded core.	Moderately fractured. PLA in MO and core associated with fractures. LI	Core
30.2	445.1	8.3	439.7	11.4				MO
32.1	412.8	5.5	413.7	10.9	Subhedral	Very faint patchy oscillatory zoning in smaller magmatic overgrowth. Larger semi-homogeneous unzoned subrounded core.	Moderately fractured. PLA in MO associated with fractures.	Core
33.2	424.7	6.6	433.3	10.6	Subhedral	Faint patchy oscillatory zoning in larger semi-homogeneous magmatic overgrowth. Semi-homogeneous unzoned subrounded partial core.	Moderately fractured. PLA in MO and core associated with fractures. FI	MO
40.1	412.9	4.9	419.9	11.7	Subhedral	Smaller semi-homogeneous unzoned partial magmatic	Heavily fractured. PLA in core and MO associated	Core

						overgrowth. Larger unzoned heterogeneous subrounded core.	with fractures. FI	
41.1	418.6	5.3	421.9	10.9	Subhedral	Smaller semi-homogeneous unzoned partial magmatic overgrowth. Larger unzoned semi-homogeneous euhedral partial core.	Moderately fractured. PLA in core associated with fractures. FI	Core
43.1	416.0	5.9	416.1	13.0	Subhedral	Smaller semi-homogeneous very faintly zoned partial (i.e., doesn't wrap around entire core) magmatic overgrowth. Faint zoning (oscillatory?) in larger heterogeneous subrounded core.	Moderately fractured. PLA in MO and core associated with fractures.	MO
46.1	410.2	5.2	412.0	13.6	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger very faintly zoned (oscillatory?) heterogeneous core.	Lightly fractured. PLA in core associated with fractures.	Core?
46.2	395.3	6.0	404.2	15.1				Core?
46.3	413.9	7.6	415.8	10.8				MO
47.1	417.8	5.1	416.3	11.8	Anhedral	Complex structure throughout. Very narrow to broad unzoned outermost magmatic	Very lightly fractured. PLA throughout related to	MO?

						overgrowth. Very faint patchy oscillatory zoning throughout inner grain. No core - rim boundary observed (missing core?).	fractures. FI	
50.1	414.5	4.7	420.9	11.1	Subhedral	Complex structure throughout. Very faint patchy oscillatory zoning throughout smaller magmatic overgrowth. Large heterogeneous unzoned subrounded core.	Very lightly fractured.	MO?
54.1	431.6	6.9	425.8	11.5	Subhedral	Complex structure throughout. Smaller semi-homogeneous unzoned magmatic overgrowth. Faint patchy oscillatory zoning in larger heterogeneous subrounded core.	Moderately fractured. PLA throughout core, related to fractures.	MO
59.1	404.6	4.8	404.7	10.9	Subhedral	Semi-homogenous magmatic overgrowth with faint patchy oscillatory zoning. Faint patchy oscillatory zoning in heterogenous subrounded core.	Heavily fractured. PLA throughout core and magmatic overgrowth, related to fractures. Very large grain (>300 μm). Magmatic	Core?
59.3	426.7	6.7	430.5	10.6				MO?

							overgrowth is very large, varying from very broad to very narrow in width. LI	
60.1	420.9	4.9	421.6	12.3	Subhedral	Larger semi-homogenous magmatic overgrowth with faint patchy oscillatory zoning. Small semi-homogenous unzoned subrounded core.	Heavily fractured. PLA throughout, associated with fractures. FI	Core-MO
61.1	421.3	5.7	425.0	11.6	Euhedral	Smaller semi-homogenous unzoned magmatic overgrowth. Faint patchy oscillatory zoning in large unzoned euhedral core.	Very lightly fractured. FI	Core
66.1	430.0	5.5	422.3	14.3	Subhedral	Small partial magmatic overgrowth with very faint patchy oscillatory zoning. Larger semi-homogeneous unzoned subangular core.	Moderately fractured. PLA throughout core, associated with fractures.	Core
67.1	420.0	6.9	414.8	15.0	Subhedral	Larger magmatic overgrowth with very faint patchy oscillatory zoning.	Moderately fractured. PLA throughout MO, associated	MO

						Smaller unzoned subrounded semi-homogeneous core.	with fractures. Very dark semi-homogenous core. SE image suggests a possible mineral inclusion. May also be PR/TR of core? FI	
69.1	418.5	5.0	413.2	13.8	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Large unzoned heterogeneous core.	Heavily fractured. PLA throughout core, associated with fractures. PR of core? FI	Core?
70.1	424.0	7.7	420.4	11.3	Subhedral	Smaller semi-homogeneous magmatic overgrowth with faint patchy zoning. Large heterogeneous subrounded core with faint (narrow to broad) patchy oscillatory zoning.	Heavily fractured. PLA in core and MO, associated with fractures. FI (elongated).	MO
71.1	421.7	5.0	420.8	12.3	Subhedral	Very faint patchy oscillatory (and sector?) zoning in smaller magmatic overgrowth. Larger semi-homogeneous unzoned subrounded core.	Very lightly fractured. PLA randomly throughout, associated with fractures.	Core
72.1	424.6	5.0	419.1	11.5	Subhedral	Faint patchy oscillatory and sector zoning throughout smaller magmatic	Very lightly fractured. Partial grain i.e., part of grain has	Core
72.2	415.0	4.6	411.5	11.6				MO

						overgrowth. Large semi-homogeneous subrounded core with prominent sector zoning.	been broken and subsequently removed. FI	
79.1	415.5	4.8	413.4	11.2	Euhedral	Faint patchy oscillatory and prominent sector zoning throughout larger magmatic overgrowth. Smaller heterogeneous unzoned subrounded core.	Very lightly fractured. PLA of core, associated with fractures. FI	MO
80.1	420.0	5.2	426.8	13.1	Subhedral	Very faint patchy oscillatory zoning in smaller semi-homogeneous magmatic overgrowth. Larger semi-homogeneous subrounded core with faint patchy oscillatory zoning.	Heavily fractured. PLA of core and overgrowth, associated with fractures. PR of core or just significant fracture-related alteration?	Core
80.2	411.0	6.2	413.3	10.8				MO
81.1	417.5	5.7	424.6	12.6	Subhedral	Larger magmatic overgrowth with faint patchy oscillatory and sector zoning. Smaller semi-homogeneous unzoned rounded core.	Moderately fractured. PLA of core, associated with inclusions (?). LI	Core
81.2	414.8	5.2	412.3	11.6				MO
82.1	422.3	5.4	421.9	13.5	Subhedral	Smaller semi-homogeneous magmatic overgrowth with	Moderately fractured. PLA of core,	Core

						faint oscillatory zoning. Large heterogeneous unzoned subrounded core.	associated with fractures.	
84.1	417.3	5.9	417.2	15.4	Subhedral	Very faint patchy oscillatory and sector zoning in smaller magmatic overgrowth. Larger semi-homogeneous rounded core with faint patchy sector zoning.	Very lightly fractured.	Core
85.1	453.6	9.0	452.9	11.6	Subhedral	Larger semi-homogeneous unzoned magmatic overgrowth. Small rounded semi-homogeneous unzoned core.	Lightly fractured. PLA in MO, associated with fractures. FI	MO
86.1	425.1	8.2	425.0	12.0	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger subrounded semi-homogeneous unzoned core.	Moderately fractured. PLA of core and MO, associated with fractures. FI	MO
88.1	424.4	5.3	431.9	11.7	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger heterogeneous subangular core with complex (oscillatory?) zoning.	Heavily fractured. PLA of core and MO, associated with fractures. FI	Core

89.1	430.1	6.2	425.8	11.5	Subhedral	Very faint oscillatory (and sector?) zoning in larger semi-homogeneous partial magmatic overgrowth. Small semi-homogeneous unzoned subrounded partial core.	Very lightly fractured. PLA of core associated with fractures?	MO
91.1	421.2	5.0	424.0	10.8	Subhedral	Very faint patchy oscillatory (and sector?) zoning in smaller partial magmatic overgrowth. Larger semi-homogenous unzoned subrounded partial core.	Very lightly fractured.	Core
91.2	412.7	5.9	417.3	12.3				MO
93.1	399.6	5.5	404.6	10.6	Subhedral	Semi-homogeneous unzoned larger partial magmatic overgrowth. Small semi-homogeneous unzoned subrounded core.	Heavily fractured. PLA of core and MO, associated with fractures.	MO
95.1	425.8	5.3	429.1	10.8	Subhedral	Very faint patchy oscillatory zoning in smaller semi-homogeneous magmatic overgrowth. Large euhedral semi-homogeneous core with patchy (narrow-broad) oscillatory zoning.	Very heavily fractured. PLA of core, associated with fractures and inclusions. FI	Core
95.2	428.5	7.0	439.3	10.6				MO

96.1	416.9	4.8	415.9	13.3	Subhedral	Very faint patchy oscillatory zoning in small semi-homogeneous magmatic overgrowth. Larger semi-homogeneous unzoned rounded core.	Moderately fractured. PLA of core, associated with inclusions. FI	Core
98.1	416.6	4.9	421.1	11.6	Subhedral	Very faint patchy oscillatory and sector zoning throughout smaller heterogeneous magmatic overgrowth. Larger semi-homogeneous unzoned rounded core.	Moderately fractured. PLA of core and MO, associated with inclusions and fractures. LI	MO
99.1	414.3	5.2	421.6	12.2	Subhedral	Very faint patchy oscillatory and sector zoning throughout semi-homogeneous magmatic overgrowth. Unzoned semi-homogeneous rounded core.	Moderately fractured. PLA of core and MO, associated with fractures.	Core
99.2	436.4	6.9	434.7	11.4				MO
100.1	419.7	5.4	424.1	12.4	Subhedral	Very faint patchy oscillatory zoning throughout larger heterogeneous magmatic overgrowth. Small unzoned semi-homogeneous subangular core.	Moderately fractured. PLA of MO, associated with fractures and inclusions. FI	MO?

Table 16: Textural descriptions for all **concordant** points in **CR07**. Pale blue = slight Pb loss/alteration grains. Pale red = emplacement grains, Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not used in age calculations.

Zircon ID	206Pb/238U age	**2σ**	207Pb/235 U age	**2σ**	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
Grain_001	N/A	N/A	N/A	N/A	Subhedral	Zones too small for 30 μm laser spot.	Very heavily fractured. PLA throughout associated with fractures. Partial grain (i.e., grain previously broken so only part of core and MO preserved).	N/A
3.1	329.7	4.6	405.5	11.4	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Large heterogeneous unzoned rounded core.	Lightly fractured. PLA of core associated with fractures and inclusions. FI	Core
4.1	421.0	7.8	520.5	17.3	Anhedral (broken)	Very faint patchy oscillatory zoning in smaller magmatic overgrowth. Larger semi-homogeneous unzoned core of a complex shape.	Heavily fractured. PLA of MO associated with fractures and inclusions. PR of core. FI	Core
4.2	454.0	13.3	699.3	34.0				MO

Grain_005	N/A	N/A	N/A	N/A	Euhedral	Zones too small for 30 µm laser spot.	Heavily fractured. PLA throughout associated with fractures.	N/A
9.1	412.1	6.5	542.2	34.3	Subhedral	Very faint patchy oscillatory and sector zoning in magmatic overgrowth. Semi-homogenous unzoned rounded core.	Very heavily fractured. PLA in MO and core associated with fractures. FI	MO
Grain_010	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned.	Very heavily fractured. PLA throughout associated with fractures. Grain too small for 30 µm laser spot.	N/A
Grain_011	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous. Unzoned. No clear core -rim boundary.	Moderately fractured. PLA throughout associated with fractures. Very tabular shaped – apatite?	N/A
Grain_014	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure. Heterogeneous. Irregular core-rim boundary.	Moderately fractured. PLA throughout associated with fractures. Altered or PR of core?	N/A
Grain_015	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure. Heterogeneous. Core zones too small and	Very lightly fractured. PLA throughout associated with fractures and	N/A

						irregular for 30 µm laser spot.	inclusions. MO is only partially preserved and too small for 30 µm laser spot.	
Grain_021	N/A	N/A	N/A	N/A	Subhedral (broken)	Semi-homogeneous. Core zones too small and irregular for 30 µm laser spot.	Lightly fractured. PLA throughout associated with fractures. MO is too small for 30 µm laser spot.	N/A
Grain_023	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure. Heterogeneous. MO zones too small for 30 µm laser spot.	Heavily fractured. PLA throughout associated with fractures. Individually, partial MO and core are too small for 30 µm laser spot.	N/A
24.2	450.3	7.3	598.7	15.1	Subhedral	Complex internal structure. Smaller semi-homogeneous unzoned magmatic overgrowth. Larger subangular semi-homogeneous core with oscillatory (very narrow – broad) zoning.	Heavily fractured. PLA of core associated with fractures.	MO
Grain_026	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure. Heterogeneous. MO zones too small for 30 µm laser spot.	Heavily fractured. PLA of core and overgrowth associated with fractures. Core too altered	N/A

							and contains inclusions, could not fit 30 µm laser spot.	
29.1	414.2	4.5	427.5	13.1	Subhedral	Broad heterogeneous oscillatory zoning throughout.	Lightly fractured. PLA throughout associated with fractures and inclusions. LI (very large, span entire length of grain).	Core?
Grain_031	N/A	N/A	N/A	N/A		Complex internal structure. Heterogeneous. Unzoned.	Very heavily fractured. PLA throughout associated with fractures. Core too small and altered, could not fit 30 µm laser spot. MO too small for 30 µm laser spot.	N/A
Grain_034	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure. Heterogeneous. Faint patchy oscillatory irregular zoning in core.	Moderately fractured. PLA throughout associated with fractures. Core too small and altered, could not fit 30 µm laser spot. MO too small for 30 µm laser spot.	N/A
Grain_035	N/A	N/A	N/A	N/A	Subhedral	Complex internal structure.	Heavily fractured. PLA throughout	N/A

						Heterogeneous. Chaotic patchy zoning throughout.	associated with fractures. Zones too small for 30 μm laser spot.	
Grain_036	N/A	N/A	N/A	N/A		Complex internal structure. Heterogeneous. Chaotic patchy zoning throughout.	Very heavily fractured. PLA throughout associated with fractures. Core too altered and contains inclusions, could not fit 30 μm laser spot.	N/A
37.1	257.9	20.6	335.6	15.8	Anhedral	Faint patchy oscillatory zoning in partial magmatic overgrowth. Semi-homogeneous unzoned core.	Lightly fractured. PLA in core and MO, associated with fractures.	Core
37.2	369.4	7.2	392.3	11.2				MO
38.1	401.4	5.0	422.1	12.6	Anhedral	Complex structure throughout. Faint sector zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	Heavily fractured. PLA throughout, associated with fractures and inclusions. Large anhedral mineral inclusion (?) overlaps part of MO and core.	MO
Grain_039	N/A	N/A	N/A	N/A	Anhedral	Complex internal structure. Heterogeneous.	Lightly fractured. PLA throughout associated with fractures. Zones in MO and core too small and	N/A

							patchy for 30 μm laser spot.	
42.1	331.1	12.3	378.6	11.5	Subhedral	Very faint patchy oscillatory zoning throughout smaller partial magmatic overgrowth. Large semi-homogeneous unzoned subrounded core.	Moderately fractured. PLA in MO, associated with fractures and inclusions. FI (elongated).	Core
42.2	415.9	5.4	431.1	12.6				MO
Grain_044	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous. Oscillatory (very narrow to broad) in core.	Heavily fractured. PLA throughout associated with fractures. Zones in core too small and patchy for 30 μm laser spot.	N/A
Grain_045	N/A	N/A	N/A	N/A	Euhedral	Complex structure throughout. Heterogeneous.	Heavily fractured. PLA throughout associated with fractures. PR of core or some late-stage alteration of core by outermost dark MO?	N/A
Grain_048	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous. Very faintly zoned MO.	Heavily fractured. PLA throughout associated with fractures. Individually core and MO too small for 30 μm laser spot.	N/A

Grain_049	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous. Faint oscillatory zoning throughout MO.	Heavily fractured. PLA throughout associated with fractures. Zones too small for 30 µm laser spot.	N/A
51.1	420.9	6.1	410.6	11.6	Subhedral	Small semi-homogeneous unzoned magmatic overgrowth. Larger homogeneous rounded unzoned core.	Moderately fractured. FI	
52.1	420.9	4.9	409.7	11.9	Subhedral	Very faint patchy oscillatory zoning in partial magmatic overgrowth. Homogeneous unzoned subrounded core.	Moderately fractured. PLA in MO, associated with fractures.	MO
53.1	591.2	17.6	1450.2	76.7	Anhedral	Complex structure throughout. Very faint patchy oscillatory zoning throughout partial magmatic overgrowth. Semi-homogeneous unzoned rounded core.	Moderately fractured. PLA in MO, associated with fractures. FI	MO
Grain_055	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Semi-homogeneous. Unzoned. No core - rim boundary.	Heavily fractured. PLA throughout associated with fractures.	N/A

							Grain structure too complex for laser spot.	
Grain_056	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous.	Heavily fractured. PLA throughout associated with fractures. Individually core and MO too small and altered for 30 µm laser spot.	N/A
57.1	452.6	15.0	580.3	28.9	Subhedral	Very faint patchy zoning in smaller magmatic overgrowth. Large semi-homogeneous unzoned partial subrounded core.	Heavily fractured. PLA in core and MO, associated with fractures. FI	MO
58.1	10351.8	1039.7	6478.8	14.4	Subhedral	Very faint patchy oscillatory (and sector?) zoning in smaller magmatic overgrowth. Larger semi-homogeneous subrounded core with faint sector zoning (?).	Lightly fractured. PLA in core and MO, associated with fractures and inclusions. FI (large inclusion pierces middle of core).	Core
Grain_062	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous.	Very heavily fractured. PLA throughout associated with fractures. Grain too small for 30 µm laser spot.	N/A
63.1	414.4	6.6	546.3	21.9	Subhedral	Very narrow unzoned partial magmatic	Heavily fractured. PLA in core,	Core

						overgrowth. Large unzoned semi-homogeneous core.	associated with fractures. FI	
64.1	392.8	6.8	407.2	10.1	Subhedral	Complex structure throughout. Smaller semi-homogenous faintly zoned magmatic overgrowth. Large heterogeneous subrounded core with patchy broad oscillatory zoning.	Heavily fractured. PLA in core, associated with fractures. FI.	MO
65.1	360.9	11.1	549.0	29.7	Subhedral	Smaller (?) magmatic overgrowth with very faint patchy zoning. Larger semi-homogeneous unzoned subrounded core. Poorly defined core – rim boundary.	Heavily fractured. PLA throughout, associated with fractures.	Core
65.2	416.5	4.5	449.9	11.7				MO
68.1	431.4	11.7	555.0	43.0	Subhedral	Semi-homogeneous magmatic overgrowth with very faint patchy oscillatory zoning. Subrounded semi-homogeneous unzoned core.	Very heavily fractured. PLA of MO, associated with fractures. FI	MO
Grain_073	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous. Patchy irregular zoning in core.	Heavily fractured. PLA throughout associated with fractures. Individually core is too altered, and	N/A

							MO is too small and altered for 30 µm laser spot.	
Grain_074	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous.	Very heavily fractured. PLA throughout associated with fractures. Core zones too small for 30 µm laser spot. PR of core or overprinting by mineral inclusion?	N/A
Grain_075	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous.	Lightly fractured. PLA throughout associated with fractures. Grain too complex for laser analysis.	N/A
Grain_076	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous.	Heavily fractured. PLA throughout associated with fractures. MO too small, core too altered for laser analysis.	N/A
Grain_077	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous oscillatory (very narrow to broad) zoning throughout core.	Very heavily fractured. PLA throughout associated with fractures. Very long inclusions throughout core and zones too	N/A

							narrow for 30 µm laser spot.	
78.1	416.4	5.7	427.2	12.5	Subhedral	Smaller semi-homogeneous unzoned partial magmatic overgrowth. Larger heterogeneous partial core with patchy oscillatory zoning.	Very lightly fractured. PLA of core, associated with fractures. FI	Core
Grain_083	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous.	Very heavily fractured. PLA throughout associated with fractures. Grain too altered, zoning too patchy and narrow and MO too small for 30 µm laser spot.	N/A
87.1	369.7	12.2	394.6	17.8	Subhedral	Small semi-homogeneous unzoned magmatic overgrowth. Larger semi-homogeneous core with (narrow to broad) oscillatory zoning. Very poorly defined core - rim boundary.	Moderately fractured. PLA of core and MO, associated with fractures. FI	Core?
Grain_090	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous. Faint patchy oscillatory zoning throughout magmatic overgrowth.	Heavily fractured. PLA throughout associated with fractures. Grain too small	N/A

							overall for laser analysis.	
92.1	414.2	6.8	446.3	10.5	Subhedral	Complex structure throughout. Smaller semi-homogeneous unzoned magmatic overgrowth. Larger complex subrounded core with faint patchy oscillatory zoning.	Very heavily fractured. PLA of core and MO, associated with fractures. LI	MO
Grain_094	N/A	N/A	N/A	N/A	Anhedral	Heterogeneous. Very faintly zoned magmatic overgrowth.	Heavily fractured. PLA throughout associated with fractures. Partial grain (i.e., previously broken). Core and MO too small for 30 μm laser spot.	N/A
Grain_097	N/A	N/A	N/A	N/A	Subhedral	Heterogenous. Faint oscillatory zoning in core.	Heavily fractured. PLA throughout associated with fractures. Core, MO and individual zones too small for 30 μm laser spot.	N/A
Grain_101	N/A	N/A	N/A	N/A	Euhedral	Heterogeneous. Faint patchy oscillatory zoning in core.	Heavily fractured. PLA throughout associated with fractures. Core, MO and individual zones too small for 30 μm laser spot.	N/A

Grain_102	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous. Faint patchy oscillatory and sector zoning in MO. Complex core.	Heavily fractured. PLA throughout associated with fractures. Core too complex and individual zones too small for 30 μm laser spot.	N/A

Table 17: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **CR07**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

Zircon ID	206Pb/238U age	2σ	207Pb/235U age	2σ	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
3.1	386.7	9.8	384.7	13.2	Subhedral	Larger semi-homogeneous unzoned magmatic overgrowth. Smaller homogeneous unzoned subrounded core.	Very heavily fractured. PLA in MO associated with fractures and inclusions. PR of core or inclusion wrapping around core? FI	MO
6.1	412.5	4.9	411.2	13.0	Euhedral	Very small narrow dark unzoned partial semi-homogeneous magmatic overgrowth. Very faint patchy oscillatory (?) zoning in larger semi-homogeneous core.	*Unfractured.* Difficult to distinguish between core and rim. No clear core - rim boundary.	Core?
7.1	408.1	5.4	412.6	14.1	Subhedral	Complex internal structure. Very small narrow dark unzoned partial semi-homogeneous magmatic overgrowth. Very faint patchy sector zoning in larger semi-homogeneous core.	*Unfractured.* Difficult to distinguish between core and rim. No clear core - rim boundary.	Core?
7.2	428.5	5.6	430.6	13.2				Core?

9.1	402.6	6.6	408.2	13.5	Subhedral	Smaller very narrow to broad dark very faintly zoned (oscillatory) semi-homogeneous magmatic overgrowth. Larger unzoned semi-homogeneous core.	*Unfractured.*	Core
11.1	412.1	4.7	414.8	10.5	Subhedral	Smaller very narrow to broad dark unzoned semi-homogeneous magmatic overgrowth. Faint patchy oscillatory zoning in large heterogenous core. Difficult to distinguish between core and rim. No clear core - rim boundary.	Moderately fractured. PLA throughout core, associated with fractures.	Core?
24.1	410.1	5.6	415.7	15.7	Subhedral	Complex structure throughout. Very faint patchy oscillatory zoning throughout smaller magmatic overgrowth. Large semi-homogeneous unzoned core.	Heavily fractured. PLA throughout core and MO associated with fractures.	Core?
26.1	400.0	10.7	407.3	12.9	Subhedral	Complex structure throughout. Smaller very narrow to narrow dark	Very lightly fractured. FI	MO?
26.2	414.6	5.2	404.6	12.9				Core?

						homogeneous partial overgrowth. Prominent sector zoning throughout larger semi-homogeneous core. Difficult to distinguish between core and rim. No clear core – rim boundary.		
31.1	421.6	9.5	421.5	13.7	Subhedral	Semi-homogeneous and dark throughout. Larger unzoned core. Smaller unzoned magmatic overgrowth.	Heavily fractured. PLA throughout MO associated with fractures.	Core?
34.1	413.2	4.7	408.6	10.8	Subhedral	Smaller narrow dark unzoned semi-homogeneous magmatic overgrowth. Very large semi-homogeneous core with very faint equally spaced oscillatory zoning.	Very lightly fractured. Large portion of g.rain missing (i.e., popped out during grinding/polishing?). PLA associated with large gap and associated fractures in centre of grain. FI	Core?
34.2	416.8	4.9	416.9	12.1				Core?
36.1	413.9	5.1	417.7	13.2	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth, bordered by very narrow outermost dark rim. Larger	Heavily fractured. PLA throughout core and MO associated with fractures. FI (very large, core based)	Core

						heterogeneous core with complex irregular patchy zoning.		
39.1	418.3	4.6	410.9	11.0	Subhedral	Smaller broad partial semi-homogeneous magmatic overgrowth with faint oscillatory zoning. Larger semi-homogeneous core with very faint (broad oscillatory?) zoning.	Unfractured.	Core?
46.1	411.9	4.9	406.3	14.1	Subhedral	Smaller semi-homogeneous very narrow to broad dark partial unzoned magmatic overgrowth. Larger semi-homogeneous core with very faint (oscillatory?) zoning.	Unfractured.	Core
49.1	408.3	4.7	406.1	11.1	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger semi-homogeneous unzoned core.	Heavily fractured. PLA throughout MO and core associated with fractures. FI	Core
50.1	407.8	5.5	415.6	13.4	Subhedral	Complex structure throughout. Faint patchy oscillatory zoning throughout. Cannot distinguish	Heavily fractured. PLA throughout entire grain associated with many large anhedral	Core?

						between core and rim.	inclusions throughout grain. LI	
55.1	429.5	6.4	426.2	11.0	Subhedral	Complex structure throughout. Faint patchy oscillatory and sector zoning throughout larger heterogeneous magmatic overgrowth. Smaller rounded heterogeneous core with patchy oscillatory zoning.	Heavily fractured. PLA throughout MO and core associated with fractures. PR of core associated with outermost dark unzoned portion of magmatic overgrowth i.e., overprinting of core by very dark semi-homogeneous patch **or** overprinting of core by very large anhedral mineral inclusion **or** inherited core. FI	MO
55.2	415.4	4.8	425.7	12.4				MO
55.3	413.4	5.4	419.3	15.7				Core
57.1	411.8	5.1	421.2	15.3	Subhedral	Complex structure throughout. Smaller heterogeneous unzoned magmatic overgrowth. Larger unzoned heterogeneous core.	Moderately fractured. PLA throughout MO and core associated with fractures. PR or PLA of outermost magmatic overgrowth (?). LI	Core
58.1	418.6	5.8	420.3	11.3	Subhedral	Complex structure throughout. Smaller heterogeneous very narrow to broad	Heavily fractured. PLA throughout MO and core associated with fractures.	

						partial magmatic overgrowth with very faint patchy oscillatory zoning. Larger heterogeneous core with faint patchy oscillatory zoning.		
62.1	394.9	7.2	400.9	19.0	Subhedral	Complex structure throughout. Faint patchy oscillatory zoning throughout. Cannot distinguish between core and rim.	Lightly fractured. PLA throughout associated with fractures.	Core?
64.1	419.7	4.8	423.6	13.0	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger heterogeneous core with faint patchy oscillatory zoning.	Very lightly fractured. PLA throughout core and MO associated with fractures.	Core
75.1	417.3	4.9	422.2	11.6	Subhedral	Complex structure throughout. Semi-homogeneous throughout with very faint patchy oscillatory zoning. No well-defined core -rim boundary.	Moderately fractured. PLA throughout associated with fractures. FI	Core?
78.1	420.4	5.5	415.2	13.8	Subhedral	Complex structure throughout. Heterogeneous throughout with faint patchy oscillatory zoning.	Heavily fractured. PLA throughout associated with fractures. FI	Core?

						No well-defined core -rim boundary.		
88.1	409.2	5.3	411.0	12.5	Subhedral	Complex structure throughout. Very faint oscillatory zoning throughout semi-homogeneous grain. Poorly defined core – rim boundary.	Lightly fractured. PLA throughout associated with fractures and inclusions. FI	Core?
90.1	427.2	4.9	424.8	11.4	Subhedral	Complex structure throughout. Smaller very narrow to narrow semi-homogeneous very faintly zoned (oscillatory) magmatic overgrowth. Larger heterogeneous core with very faint patchy oscillatory (and sector?) zoning.	Very heavily fractured. PLA throughout associated with fractures and inclusions. LI (lots of small rounded inclusions in core)	Core?
91.1	412.1	6.5	421.8	21.1	Subhedral	Complex structure throughout. Very faint oscillatory zoning throughout heterogeneous grain. Poorly defined core – rim boundary.	Very heavily fractured. PLA throughout associated with fractures and inclusions. FI	Core?
92.1	417.7	6.3	419.9	15.6	Subhedral	Complex structure throughout. Smaller complex semi-homogeneous	Heavily fractured. PLA throughout core associated with fractures and	Core

						unzoned magmatic overgrowth. Larger semi-homogeneous unzoned core.	inclusions. FI	
96.1	408.7	4.5	412.0	12.3	Subhedral	Complex structure throughout. Heterogeneous texture. Poorly defined core – rim boundary.	Heavily fractured. PLA throughout core associated with fractures.	Core?
101.1	418.4	5.5	417.9	15.7	Subhedral	Complex structure throughout. Heterogeneous magmatic overgrowth with very faint patchy oscillatory and sector zoning. Semi-homogeneous core with very faint patchy oscillatory zoning.	Very heavily fractured. PLA throughout core and MO associated with fractures. FI	MO?
102.1	407.8	6.8	409.0	20.8	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger semi-homogeneous unzoned core.	Moderately fractured. PLA throughout core and MO associated with fractures.	Core
103.1	414.8	4.9	414.9	11.9	Subhedral	Smaller very narrow to narrow semi-homogeneous unzoned magmatic overgrowth. Larger semi-homogeneous core with very faint	Moderately fractured. PLA throughout core and MO associated with fractures.	Core?

						patchy oscillatory and sector zoning.		
105.1	414.2	6.0	417.8	15.5	Subhedral	Smaller semi-homogeneous magmatic overgrowth with very faint patchy oscillatory zoning. Larger semi-homogeneous core with very faint patchy oscillatory zoning.	Lightly fractured. PLA throughout core and MO associated with fractures. FI	Core

Table 18: Textural descriptions for all **concordant** points in **CR08**. Pale blue = slight Pb loss/alteration grains. Pale red = emplacement grains, Pale orange = antecrystic grains. Brown = xenocrystic grains. Some of these concordant grains contain discordant points, not used in age calculations.

Zircon ID	206Pb/238U age	**2σ**	207Pb/235U age	**2σ**	Grain shape	Zoning pattern	Other (e.g., surface fractures, alteration, resorption etc)	Location of laser spot
Grain_001	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous throughout. Faint patchy oscillatory zoning in core.	Very heavily fractured. PLA throughout associated with fractures. Grain too small and fractured for laser analysis.	N/A
Grain_002	N/A	N/A	N/A	N/A	Subhedral	Heterogeneous throughout. Unzoned MO and core.	Heavily fractured. PLA throughout associated with	N/A

							fractures. Grain too small (i.e., MO and core individually too small for 30 µm laser spot) and fractured for laser analysis. FI	
4.1	341.0	6.5	427.8	12.1	Subhedral	Very faint patchy oscillatory zoning throughout. Faint patchy sector zoning also. Cannot determine boundary between core and rim.	Heavily fractured. PLA throughout associated with fractures. Grain is 1 large core with poorly developed zoning?	Core?
4.2	412.4	5.4	424.5	16.1				Core?
Grain_005	N/A	N/A	N/A	N/A	Anhedral	Semi-homogenous core (?) and MO.	Heavily fractured. Grain too small and fractured for 30 µm laser spot.	N/A
Grain_008	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Moderately fractured. Grain too small for 30 µm laser spot and too many inclusions for analysis.	N/A
Grain_010	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous unzoned elongated core and MO.	Moderately fractured. Grain too small for 30 µm laser spot.	N/A
Grain_012	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous magmatic overgrowth and	Moderately fractured. PLA throughout,	N/A

						core. Very faint patchy oscillatory zoning in core.	associated with fractures. Core and MO individually too small for 30 µm laser spot and grain is too fractured for laser analysis.	
13.1	433.0	5.0	495.7	13.0	Subhedral	Complex structure throughout. Smaller very narrow to broad dark partial unzoned semi-homogeneous magmatic overgrowth. Prominent sector zoning throughout larger heterogeneous core (?).	Heavily fractured. PLA throughout core and MO, associated with fractures. Difficult to distinguish between core and rim. No clear core - rim boundary.	Core?
14.1	382.5	10.7	412.8	13.6	Euhedral	Complex structure throughout. Smaller very narrow to narrow dark partial unzoned semi-homogeneous magmatic overgrowth. Larger heterogeneous core with faint patchy zoning.	Heavily fractured. PLA throughout core, associated with fractures. Difficult to distinguish between core and rim. No clear core - rim boundary. FI (2 x very large)	Core?
Grain_015	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous. Cannot distinguish	Very heavily fractured. PLA throughout, associated with	N/A

						between core and rim.	fractures. Grain too fractured and complex for 30 µm laser spot.	
Grain_016	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Semi-homogeneous unzoned magmatic overgrowth. Heterogeneous core with faint patchy sector (?) zoning.	Heavily fractured. PLA throughout, associated with fractures. Grain too fractured and complex for 30 µm laser spot.	N/A
Grain_017	N/A	N/A	N/A	N/A	Anhedral (broken)	Complex structure throughout.	Partial grain, broken in half with section missing. Both fragments are heavily fractured. PLA throughout both, associated with fractures. Fragments too small and complex for 30 µm laser spot.	N/A
Grain_018	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Chaotic / indistinguishable zoning throughout. Cannot distinguish between core and rim.	Heavily fractured. PLA throughout, associated with fractures. Grain too altered, fractured and texturally complex for 30 µm laser spot.	N/A

19.1	359.0	4.9	421.5	15.2	Subhedral	Complex structure throughout. Almost absent outermost magmatic overgrowth around very large semi-homogenous core with faint patchy (broad oscillatory?) zoning.	Very lightly fractured. No magmatic overgrowth around large core?	Core?
20.1	417.7	5.2	446.2	15.7	Subhedral	Complex structure throughout. Heterogeneous texture. No well-developed identifiable zoning pattern. Cannot distinguish between core and rim.	Very heavily fractured. PLA throughout, associated with fractures.	Core?
Grain_021	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Very faint patchy oscillatory zoning in magmatic overgrowth. Semi-homogeneous unzoned core.	Heavily fractured. PLA throughout, associated with fractures. Grain too altered, fractured, zones too small and inclusions too large for 30 μm laser spot.	N/A
Grain_022	N/A	N/A	N/A	N/A	Anhedral	Complex structure throughout.	Lightly fractured. PLA throughout, associated with fractures. Grain too small, fractured and	N/A

							texturally complex for 30 μm laser spot.	
Grain_023	N/A	N/A	N/A	N/A	Anhedral	Semi-homogeneous and unzoned throughout.	Lightly fractured. Unsure if zircon or apatite?	N/A
Grain_025	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. PLA throughout, associated with fractures. PR of core or very large mineral inclusion? FI (very large) Grain too fractured and altered for 30 μm laser spot.	N/A
27.1	399.7	4.9	420.5	11.7	Anhedral	Complex structure throughout. Semi-homogenous. No core – rim boundary.	Very lightly fractured. FI	Core?
Grain_028	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous.	Very heavily fractured. PLA throughout, associated with fractures. FI Grain too fractured and altered for 30 μm laser spot.	N/A
Grain_029	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous broad	Heavily fractured. PLA throughout, associated with fractures.	N/A

						patchy oscillatory zoning throughout.	FI (large) Grain too fractured, altered and zones too irregular for 30 µm laser spot.	
Grain_030	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous zoning.	Moderately fractured. PLA throughout, associated with fractures. FI (large) Grain too fractured and zones too irregular and small for 30 µm laser spot.	N/A
32.1	429.7	5.3	599.6	30.3	Subhedral	Complex structure throughout. Semi-homogeneous smaller dark magmatic overgrowth with very faint oscillatory zoning. Large heterogenous core with faint patchy sector zoning.	Very heavily fractured. PLA throughout core, associated with fractures. FI	Core
Grain_033	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. Very tabular shaped. Likely apatite and not zircon, thus not analysed.	N/A

Grain_035	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous zoning. Cannot distinguish between core and rim.	Heavily fractured. PLA throughout, associated with fractures. Large anhedral mineral inclusion or TR of core? Grain too fractured, zones too narrow and irregular and core (?) too complex for analysis.	N/A
Grain_037	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous zoning. Cannot identify core – rim boundary.	Very heavily fractured. PLA throughout, associated with fractures. FI (both small and very large, elongated inclusions) Grain too fractured, zones too narrow and irregular and grain too complex for analysis.	N/A
38.1	372.2	6.0	442.3	18.1	Subhedral	Smaller narrow to very narrow semi-homogeneous unzoned magmatic overgrowth (bordered by very narrow dark outermost rim.	Very lightly fractured.	Core

						Larger core with prominent oscillatory zoning.		
40.1	420.1	6.1	435.3	10.5	Subhedral	Complex structure throughout. Unzoned throughout magmatic overgrowth and core.	Heavily fractured. PR of core (?). PLA throughout, associated with fractures. FI (some of which are large)	Core?
Grain_041	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous zoning. Difficult to distinguish between core and rim.	Very heavily fractured. PLA throughout, associated with fractures. PR of core or very large anhedral elongated mineral inclusion? Grain too fractured for laser analysis.	N/A
Grain_042	N/A	N/A	N/A	N/A	Subhedral	Smaller very narrow to narrow semi-homogeneous unzoned magmatic overgrowth. Broad oscillatory zoning in larger semi-homogeneous core.	Lightly fractured. PLA throughout, associated with fractures. Zones too narrow for 30 µm laser spot.	N/A
43.1	384.9	6.2	505.5	20.6	Subhedral	Complex structure throughout. Semi-homogeneous smaller narrow to very narrow unzoned dark magmatic	Moderately fractured. PLA throughout core, associated with fractures and inclusions.	Core
43.2	404.8	5.9	455.8	13.2				Core?

						overgrowth. Large heterogenous core with faint patchy sector and oscillatory zoning.	FI	
44.1	406.8	6.4	443.9	22.9	Subhedral	Smaller semi-homogeneous unzoned magmatic overgrowth. Larger semi-homogenous core with very faint oscillatory zoning.	Heavily fractured. PLA throughout core and MO, associated with fractures. FI	Core
Grain_045	N/A	N/A	N/A	N/A	Subhedral	Semi-homogenous and unzoned throughout.	Lightly fractured. A poorly developed zircon or an apatite, thus not analysed.	N/A
Grain_047	N/A	N/A	N/A	N/A	Anhedral	Complex structure throughout.	Very heavily fractured. Grain too small for 30 µm laser spot.	N/A
Grain_048	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous patchy oscillatory and sector zoning.	Heavily fractured. Grain too fractured and zones too irregular for 30 µm laser spot.	N/A
Grain_051	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and unzoned throughout.	Moderately fractured. A poorly developed zircon or an apatite, thus not analysed.	N/A
52.1	393.5	7.6	444.5	14.7	Subhedral	Smaller semi-homogeneous	Heavily fractured. PLA throughout	Core

						unzoned magmatic overgrowth. Larger heterogeneous core with faint patchy oscillatory and sector zoning.	core, associated with fractures and inclusions. FI	
Grain_053	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous patchy oscillatory zoning throughout.	Very heavily fractured. PLA throughout, associated with fractures. Grain too fractured and zones too small and irregular for 30 μm laser spot. FI (anhedral inclusion in central portion of grain)	N/A
Grain_054	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous patchy oscillatory zoning throughout.	Heavily fractured. PLA throughout, associated with fractures. Grain too fractured, altered and zones too small and irregular for 30 μm laser spot. FI (large anhedral homogeneous inclusion in central portion of grain)	N/A

Grain_056	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous patchy zoning.	Very lightly fractured. Very tabular. Potentially apatite? Zones too narrow and irregular for 30 µm laser spot.	N/A
Grain_059	N/A	N/A	N/A	N/A	Subhedral	Semi-homogenous and unzoned throughout.	Very heavily fractured. PLA throughout, associated with fractures. Grain too fractured for laser analysis.	N/A
60.1	375.3	5.2	490.2	16.2	Subhedral	Smaller very narrow to broad unzoned semi-homogeneous magmatic overgrowth. Larger heterogeneous core with faint patchy oscillatory zoning.	Lightly fractured. Large subrounded semi-homogeneous dark mineral inclusion (?) overlapping portion of core and MO. FI (small and large).	Core
Grain_061	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous patchy zoning.	Heavily fractured. Zones too narrow and irregular for 30 µm laser spot. FI	N/A
Grain_063	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous patchy zoning.	Heavily fractured. Zones too narrow and irregular and grain too	N/A

							fractured for 30 µm laser spot. FI	
Grain_064	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Heterogeneous patchy zoning.	Very heavily fractured. Zones too narrow and irregular and grain too fractured for 30 µm laser spot. FI (narrow and elongated)	N/A
66.1	389.8	5.8	414.2	11.8	Subhedral	Complex structure throughout. Unzoned heterogeneous magmatic overgrowth. Semi-homogeneous unzoned tabular core.	Heavily fractured. PLA throughout MO, associated with fractures. Large subrounded inclusion overlaps core. FI	MO?
66.2	432.6	6.9	458.1	12.7				MO?
67.1	335.8	6.1	622.6	27.4	Subhedral	Complex structure throughout. Larger heterogeneous magmatic overgrowth with very faint patchy oscillatory zoning. Smaller subrounded semi-homogeneous unzoned core.	Heavily fractured. PLA throughout MO, associated with fractures. Core may be a subrounded mineral inclusion or an inherited core? LI	MO
67.2	301.8	11.3	484.3	20.5				MO
68.1	411.3	8.3	468.8	22.1	Euhedral	Complex structure throughout. Heterogeneous very faint patchy oscillatory zoning throughout. Cannot	Very heavily fractured. PLA throughout, associated with fractures.	Core?

						define core - rim boundary.	FI (both small and large)	
69.1	451.3	11.3	567.2	37.6	Subhedral	Complex structure throughout. Smaller magmatic overgrowth with heterogeneous zoning. Larger semi-homogeneous unzoned inherited subrounded core.	Very heavily fractured. PLA throughout MO, associated with fractures. FI	Core
70.1	380.3	5.4	416.2	12.9	Subhedral	Complex structure throughout. Larger heterogeneous magmatic overgrowth with very faint patchy oscillatory zoning. Smaller semi-homogeneous unzoned inherited core.	Very heavily fractured. PLA throughout MO, associated with fractures and inclusions. FI (large, anhedral and small)	MO
70.2	457.3	10.0	541.9	18.4				Core
Grain_071	N/A	N/A	N/A	N/A	Subhedral (broken)	Complex structure throughout.	Heavily fractured. Broken grain, each portion too small for 30 µm laser spot.	N/A
72.1	371.8	9.9	498.6	14.8	Subhedral	Complex structure throughout. Faint patchy sector zoning and very faint patchy oscillatory throughout. Poorly defined core - rim boundary so cannot	Very heavily fractured. FI (very large, overlap original core of grain?)	MO
72.2	412.2	5.4	578.7	16.6				MO?

						distinguish between core and rim.		
73.1	1227.7	158.9	2887.4	119.2	Subhedral	Complex structure throughout. Larger heterogeneous magmatic overgrowth. Smaller semi-homogeneous unzoned subrounded inherited core.	Very heavily fractured. PLA throughout MO, associated with fractures. FI	Core
Grain_074	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. PLA throughout associated with fractures. FI Grain is too altered, contains a very large inclusion and is too fractured for a 30 μm laser spot.	N/A
Grain_076	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. PLA throughout associated with fractures. FI (very large) Grain is too altered, contains a very large inclusion and is too fractured for a 30 μm laser spot.	N/A

Grain_077	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. PLA throughout associated with fractures. FI Grain is too fractured for a 30 μm laser spot.	N/A
79.1	427.0	6.3	485.8	19.7	Subhedral	Complex structure throughout. Very faint patchy sector zoning throughout (?). Poorly defined core – rim boundary.	Lightly fractured. PLA throughout, associated with fractures. FI	Core?
Grain_080	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. PLA throughout associated with fractures. LI Grain is too altered, contains a very large inclusion and is too fractured for a 30 μm laser spot.	N/A
Grain_081	N/A	N/A	N/A	N/A	Subhedral	Semi-homogeneous and unzoned throughout.	Lightly fractured. Grain is tabular shaped and lacks any well-developed internal structure. May be apatite instead of zircon,	N/A

							thus was not analysed.	
Grain_082	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. PLA throughout associated with fractures. FI Grain is too altered and is too fractured for a 30 μm laser spot.	N/A
Grain_084	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. PLA throughout associated with fractures. FI Grain is too altered, is too fractured and the core/MO is too small for a 30 μm laser spot.	N/A
85.1	394.2	6.4	551.1	21.1	Subhedral	Complex structure throughout. Faint patchy oscillatory zoning throughout. Poorly defined core - rim boundary.	Moderately fractured. PLA throughout associated with fractures. FI	
Grain_086	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Lightly fractured. PLA throughout associated with fractures. FI Grain is too and zones are too	N/A

							narrow for a 30 µm laser spot.	
Grain_087	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. PLA throughout associated with fractures. FI Grain is too altered, contains a very large inclusion and is too fractured for a 30 µm laser spot.	N/A
Grain_089	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Lightly fractured. Grain is too complex and zones too small for a 30 µm laser spot.	N/A
Grain_093	N/A	N/A	N/A	N/A	Subhedral	Homogeneous and unzoned throughout.	Apatite or dust rather than zircon so not analysed.	N/A
Grain_095	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. PLA throughout associated with fractures. Grain is too altered, fractured and zones too small and irregular for a 30 µm laser spot. FI	N/A

97.1	450.1	5.6	553.1	16.4	Subhedral	Smaller broad to very narrow semi-homogeneous magmatic overgrowth with very faint patchy oscillatory zoning. Larger heterogeneous core with faint patchy sector zoning.	Heavily fractured. PLA throughout core associated with fractures. FI	Core
97.2	428.6	4.9	476.0	15.6				Core
98.1	379.7	6.9	435.4	14.0	Subhedral	Smaller broad to very narrow unzoned partial semi-homogeneous magmatic overgrowth. Larger heterogeneous core with faint patchy oscillatory and sector zoning.	Heavily fractured. PLA throughout core associated with fractures. FI (large, elongated).	Core?
99.1	391.9	5.8	501.4	18.1	Subhedral	Smaller very narrow to narrow partial unzoned homogeneous magmatic overgrowth. Larger heterogeneous core with faint patchy oscillatory and sector zoning.	Very heavily fractured. PLA throughout core associated with fractures and inclusions. FI	Core?
99.2	399.1	9.8	452.7	15.4				MO?
Grain_100	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout. Semi-homogeneous.	Moderately fractured. PLA throughout associated with fractures.	N/A

							Grain is too small and fractured for a 30 µm laser spot. FI	
Grain_104	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Very heavily fractured. Individual zones too small and grain too fractured for 30 µm laser spot. FI	N/A
Grain_106	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Heavily fractured. Individual zones too small and grain too fractured for 30 µm laser spot. FI	N/A
Grain_107	N/A	N/A	N/A	N/A	Subhedral	Complex structure throughout.	Lightly fractured. Individual zones too for 30 µm laser spot. FI	N/A

Table 19: Textural descriptions for all **completely discordant grains** and **grains not deemed suitable for laser ablation** in **CR08**. Orange = too fractured/too small/too many overlapping zones/grains too altered. Blue = lasered but completely discordant.

Data Reduction Scheme Settings

U-Pb Geochronology

238U/235U	137.818
BeamSecondsI	30
BeamSecondsI	Laser log
BeamSecondsS	1000
DefaultFitType	Exponential
FitEndCrop	1
FitStartCrop	1
IndexChannel	U238
MaskChannel	U238
MaskMethod	Laser log
MaskResults	TRUE
MaskThreshold	1000
MaskTrim	0
Pb206_U238	
Pb207_U235	
Pb208_Th232	
ReferenceMate	Z_91500
UIsotopeCutoff	1000000
UIsotopeMode	235 when 238 high
l232	4.9475E-11
l235	9.8485E-10
l238	1.55125E-10

Mass Spectrometer Files

File	File start time	File end time	Time file loaded	No of data points	No of channels	Channels	Samples
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:37:55.000	2023-07-04 12:38:55.687	2023-08-10 14:07:57.962	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:33:07.000	2023-07-04 14:34:07.980	2023-08-10 14:07:58.715	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-11
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:06:14.000	2023-07-04 13:07:14.686	2023-08-10 14:08:05.828	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_45.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:07:18.000	2023-07-04 13:08:18.980	2023-08-10 14:08:05.875	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_45.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:08:24.000	2023-07-04 13:09:24.980	2023-08-10 14:08:05.922	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_48.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:40:14.000	2023-07-04 12:41:14.687	2023-08-10 14:08:06.062	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:09:30.000	2023-07-04 13:10:30.686	2023-08-10 14:08:06.125	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_48.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:10:34.000	2023-07-04 13:11:34.687	2023-08-10 14:08:06.156	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_6.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:11:40.000	2023-07-04 13:12:40.980	2023-08-10 14:08:06.327	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_6.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:12:45.000	2023-07-04 13:13:45.980	2023-08-10 14:08:06.390	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:13:51.000	2023-07-04 13:14:51.687	2023-08-10 14:08:06.437	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-5
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:14:56.000	2023-07-04 13:15:56.687	2023-08-10 14:08:06.593	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-6
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:34:13.000	2023-07-04 14:35:13.687	2023-08-10 14:07:58.761	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-12
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:16:01.000	2023-07-04 13:17:01.980	2023-08-10 14:08:06.655	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:17:07.000	2023-07-04 13:18:07.979	2023-08-10 14:08:06.686	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-5
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:18:13.000	2023-07-04 13:19:13.687	2023-08-10 14:08:06.827	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-6
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:19:20.000	2023-07-04 13:20:20.980	2023-08-10 14:08:06.905	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:41:18.000	2023-07-04 12:42:18.687	2023-08-10 14:08:06.967	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:20:25.000	2023-07-04 13:21:25.687	2023-08-10 14:08:07.107	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-5
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:21:30.000	2023-07-04 13:22:30.980	2023-08-10 14:08:07.170	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-6
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:22:35.000	2023-07-04 13:23:35.686	2023-08-10 14:08:07.201	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:23:41.000	2023-07-04 13:24:41.687	2023-08-10 14:08:07.357	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-5
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:24:46.000	2023-07-04 13:25:46.687	2023-08-10 14:08:07.419	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-6
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:35:18.000	2023-07-04 14:36:18.687	2023-08-10 14:07:58.808	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-11
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:25:51.000	2023-07-04 13:26:51.686	2023-08-10 14:08:07.451	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_7.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:26:56.000	2023-07-04 13:27:56.687	2023-08-10 14:08:07.591	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_9.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:28:01.000	2023-07-04 13:29:01.980	2023-08-10 14:08:07.653	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_9.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:29:06.000	2023-07-04 13:30:06.687	2023-08-10 14:08:07.700	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_9.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:30:10.000	2023-07-04 13:31:10.687	2023-08-10 14:08:07.856	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_1.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:42:23.000	2023-07-04 12:43:23.687	2023-08-10 14:08:07.903	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:31:16.000	2023-07-04 13:32:16.687	2023-08-10 14:08:07.965	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_1.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:32:21.000	2023-07-04 13:33:21.980	2023-08-10 14:08:08.121	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_1.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:33:27.000	2023-07-04 13:34:27.686	2023-08-10 14:08:08.184	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_10.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:34:32.000	2023-07-04 13:35:32.687	2023-08-10 14:08:08.246	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_11.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:48:52.000	2023-07-04 12:49:52.687	2023-08-10 14:07:58.917	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:35:37.000	2023-07-04 13:36:37.687	2023-08-10 14:08:08.433	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_11.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:36:42.000	2023-07-04 13:37:42.687	2023-08-10 14:08:08.480	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_11.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:37:48.000	2023-07-04 13:38:48.980	2023-08-10 14:08:08.543	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_12.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:38:52.000	2023-07-04 13:39:52.687	2023-08-10 14:08:08.683	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_13.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:39:59.000	2023-07-04 13:40:59.686	2023-08-10 14:08:08.745	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_13.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:41:04.000	2023-07-04 13:42:04.687	2023-08-10 14:08:08.823	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_14.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:43:28.000	2023-07-04 12:44:28.687	2023-08-10 14:08:08.979	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:42:10.000	2023-07-04 13:43:10.687	2023-08-10 14:08:09.042	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_14.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:43:16.000	2023-07-04 13:44:16.687	2023-08-10 14:08:09.089	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_15.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:44:20.000	2023-07-04 13:45:20.687	2023-08-10 14:08:09.245	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_15.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:36:23.000	2023-07-04 14:37:23.687	2023-08-10 14:07:58.964	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-12
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:45:25.000	2023-07-04 13:46:25.686	2023-08-10 14:08:09.307	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_15.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:46:30.000	2023-07-04 13:47:30.980	2023-08-10 14:08:09.369	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_16.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:47:35.000	2023-07-04 13:48:35.687	2023-08-10 14:08:09.525	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-7
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:48:40.000	2023-07-04 13:49:40.687	2023-08-10 14:08:09.588	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-8
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:49:45.000	2023-07-04 13:50:45.686	2023-08-10 14:08:09.666	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-7
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:50:50.000	2023-07-04 13:51:50.687	2023-08-10 14:08:09.869	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-8
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:51:55.000	2023-07-04 13:52:55.980	2023-08-10 14:08:09.931	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-7
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:44:33.000	2023-07-04 12:45:33.687	2023-08-10 14:08:10.009	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:53:00.000	2023-07-04 13:54:00.687	2023-08-10 14:08:10.165	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-8
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:54:05.000	2023-07-04 13:55:05.687	2023-08-10 14:08:10.243	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-7
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:37:28.000	2023-07-04 14:38:28.687	2023-08-10 14:07:58.995	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-11
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:55:09.000	2023-07-04 13:56:09.688	2023-08-10 14:08:10.274	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-8
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:56:15.000	2023-07-04 13:57:15.686	2023-08-10 14:08:10.493	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_17.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:57:20.000	2023-07-04 13:58:20.687	2023-08-10 14:08:10.539	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_17.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:58:26.000	2023-07-04 13:59:26.687	2023-08-10 14:08:10.586	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_18.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:59:31.000	2023-07-04 14:00:31.687	2023-08-10 14:08:10.711	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_18.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:00:35.000	2023-07-04 14:01:35.687	2023-08-10 14:08:10.758	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_18.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:01:41.000	2023-07-04 14:02:41.687	2023-08-10 14:08:10.805	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_19.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:02:45.000	2023-07-04 14:03:45.688	2023-08-10 14:08:10.929	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_19.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:45:38.000	2023-07-04 12:46:38.687	2023-08-10 14:08:10.976	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:03:50.000	2023-07-04 14:04:50.687	2023-08-10 14:08:11.039	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_3.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:38:34.000	2023-07-04 14:39:34.687	2023-08-10 14:07:59.136	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-12
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:04:54.000	2023-07-04 14:05:54.687	2023-08-10 14:08:11.319	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_3.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:05:59.000	2023-07-04 14:06:59.687	2023-08-10 14:08:11.397	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_4.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:07:04.000	2023-07-04 14:08:04.687	2023-08-10 14:08:11.460	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_7.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:08:10.000	2023-07-04 14:09:10.687	2023-08-10 14:08:11.616	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_8.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:09:14.000	2023-07-04 14:10:14.687	2023-08-10 14:08:11.694	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_8.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:10:20.000	2023-07-04 14:11:20.394	2023-08-10 14:08:11.725	208	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_9.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:11:25.000	2023-07-04 14:12:25.687	2023-08-10 14:08:11.897	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_9.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:12:29.000	2023-07-04 14:13:29.394	2023-08-10 14:08:11.975	208	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_9.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:13:34.000	2023-07-04 14:14:34.687	2023-08-10 14:08:12.037	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b2_UPb_9.4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:46:43.000	2023-07-04 12:47:43.687	2023-08-10 14:08:12.240	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:39:39.000	2023-07-04 14:40:39.687	2023-08-10 14:07:59.167	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-11
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:14:40.000	2023-07-04 14:15:40.687	2023-08-10 14:08:12.302	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-9
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:15:46.000	2023-07-04 14:16:46.687	2023-08-10 14:08:12.365	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-10
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:16:51.000	2023-07-04 14:17:51.394	2023-08-10 14:08:12.521	208	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-9
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:17:56.000	2023-07-04 14:18:56.687	2023-08-10 14:08:12.567	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-10
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:19:02.000	2023-07-04 14:20:02.980	2023-08-10 14:08:12.614	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-9
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:20:06.000	2023-07-04 14:21:06.687	2023-08-10 14:08:12.786	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-10
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:21:11.000	2023-07-04 14:22:11.687	2023-08-10 14:08:12.848	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-9
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:22:17.000	2023-07-04 14:23:17.394	2023-08-10 14:08:12.911	208	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-10
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:23:22.000	2023-07-04 14:24:22.687	2023-08-10 14:08:13.067	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_1.1

C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:24:27.000	2023-07-04 14:25:27.687	2023-08-10 14:08:13.113	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_1.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:40:43.000	2023-07-04 14:41:43.687	2023-08-10 14:07:59.198	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-12
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:41:48.000	2023-07-04 14:42:48.686	2023-08-10 14:07:59.370	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_12.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:47:47.000	2023-07-04 12:48:47.688	2023-08-10 14:07:57.998	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:42:53.000	2023-07-04 14:43:53.687	2023-08-10 14:07:59.401	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_13.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:43:58.000	2023-07-04 14:44:58.687	2023-08-10 14:07:59.448	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_15.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:45:03.000	2023-07-04 14:46:03.687	2023-08-10 14:07:59.573	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_16.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:46:09.000	2023-07-04 14:47:09.687	2023-08-10 14:07:59.619	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_16.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:49:57.000	2023-07-04 12:50:57.687	2023-08-10 14:07:59.666	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:47:14.000	2023-07-04 14:48:14.687	2023-08-10 14:07:59.807	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_22.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:48:19.000	2023-07-04 14:49:19.980	2023-08-10 14:07:59.853	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_22.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:49:24.000	2023-07-04 14:50:24.980	2023-08-10 14:07:59.885	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_22.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:50:28.000	2023-07-04 14:51:28.980	2023-08-10 14:08:00.056	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_27.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:51:33.000	2023-07-04 14:52:33.980	2023-08-10 14:08:00.103	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_27.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:25:32.000	2023-07-04 14:26:32.686	2023-08-10 14:07:58.040	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_1.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:52:37.000	2023-07-04 14:53:37.687	2023-08-10 14:08:00.134	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_29.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:53:43.000	2023-07-04 14:54:43.687	2023-08-10 14:08:00.290	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_3.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:54:48.000	2023-07-04 14:55:48.687	2023-08-10 14:08:00.337	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_3.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:55:53.000	2023-07-04 14:56:53.687	2023-08-10 14:08:00.384	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_30.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:56:58.000	2023-07-04 14:57:58.687	2023-08-10 14:08:00.524	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_31.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:51:01.000	2023-07-04 12:52:01.687	2023-08-10 14:08:00.571	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_1.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:58:03.000	2023-07-04 14:59:03.687	2023-08-10 14:08:00.618	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_31.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:59:08.000	2023-07-04 15:00:08.687	2023-08-10 14:08:00.758	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_32.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:00:13.000	2023-07-04 15:01:13.686	2023-08-10 14:08:00.789	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_33.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:01:18.000	2023-07-04 15:02:18.687	2023-08-10 14:08:00.821	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_34.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:26:37.000	2023-07-04 14:27:37.687	2023-08-10 14:07:58.339	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_2.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:02:24.000	2023-07-04 15:03:24.687	2023-08-10 14:08:00.961	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_37.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:03:29.000	2023-07-04 15:04:29.394	2023-08-10 14:08:00.992	208	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-13
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:04:35.000	2023-07-04 15:05:35.688	2023-08-10 14:08:01.023	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-14
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:05:39.000	2023-07-04 15:06:39.687	2023-08-10 14:08:01.164	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-15
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:06:44.000	2023-07-04 15:07:44.394	2023-08-10 14:08:01.211	208	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-13
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:07:49.000	2023-07-04 15:08:49.687	2023-08-10 14:08:01.242	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-14
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:52:06.000	2023-07-04 12:53:06.980	2023-08-10 14:08:01.367	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_14.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:08:54.000	2023-07-04 15:09:54.687	2023-08-10 14:08:01.413	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-15
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:10:00.000	2023-07-04 15:11:00.687	2023-08-10 14:08:01.460	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-13
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:11:06.000	2023-07-04 15:12:06.687	2023-08-10 14:08:01.601	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-14
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:27:42.000	2023-07-04 14:28:42.980	2023-08-10 14:07:58.378	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_2.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:12:11.000	2023-07-04 15:13:11.687	2023-08-10 14:08:01.663	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-15
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:13:15.000	2023-07-04 15:14:15.687	2023-08-10 14:08:01.710	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-13
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:14:21.000	2023-07-04 15:15:21.687	2023-08-10 14:08:01.850	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-14
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:15:27.000	2023-07-04 15:16:27.980	2023-08-10 14:08:01.897	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-15
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:16:32.000	2023-07-04 15:17:32.687	2023-08-10 14:08:01.959	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_37.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:17:37.000	2023-07-04 15:18:37.687	2023-08-10 14:08:02.084	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_37.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:18:42.000	2023-07-04 15:19:42.687	2023-08-10 14:08:02.131	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_38.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:53:12.000	2023-07-04 12:54:12.687	2023-08-10 14:08:02.162	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_14.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:19:47.000	2023-07-04 15:20:47.687	2023-08-10 14:08:02.318	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_38.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:20:53.000	2023-07-04 15:21:53.687	2023-08-10 14:08:02.365	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_38.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:28:46.000	2023-07-04 14:29:46.687	2023-08-10 14:07:58.411	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_2.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:21:58.000	2023-07-04 15:22:58.687	2023-08-10 14:08:02.427	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_38.4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:23:03.000	2023-07-04 15:24:03.687	2023-08-10 14:08:02.568	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_38.5
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:24:08.000	2023-07-04 15:25:08.687	2023-08-10 14:08:02.630	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_4.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:25:13.000	2023-07-04 15:26:13.687	2023-08-10 14:08:02.677	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_4.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:26:17.000	2023-07-04 15:27:17.687	2023-08-10 14:08:02.833	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_41.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:27:23.000	2023-07-04 15:28:23.687	2023-08-10 14:08:02.880	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_5.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:28:29.000	2023-07-04 15:29:29.394	2023-08-10 14:08:02.942	208	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_5.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:29:34.000	2023-07-04 15:30:34.687	2023-08-10 14:08:03.083	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_5.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:54:16.000	2023-07-04 12:55:16.687	2023-08-10 14:08:03.129	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_19.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:30:39.000	2023-07-04 15:31:39.687	2023-08-10 14:08:03.161	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_7.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:29:51.000	2023-07-04 14:30:51.687	2023-08-10 14:07:58.512	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_2.4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:31:44.000	2023-07-04 15:32:44.687	2023-08-10 14:08:03.317	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_7.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:32:49.000	2023-07-04 15:33:49.687	2023-08-10 14:08:03.379	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_7.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:33:55.000	2023-07-04 15:34:55.687	2023-08-10 14:08:03.441	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_8.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:35:00.000	2023-07-04 15:36:00.687	2023-08-10 14:08:03.566	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_9.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:36:05.000	2023-07-04 15:37:05.687	2023-08-10 14:08:03.629	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_9.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:37:10.000	2023-07-04 15:38:10.981	2023-08-10 14:08:03.675	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_9.3
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:38:16.000	2023-07-04 15:39:16.688	2023-08-10 14:08:03.831	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM02zr_UPb_9.4
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:39:21.000	2023-07-04 15:40:21.687	2023-08-10 14:08:03.894	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-16
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:40:26.000	2023-07-04 15:41:26.687	2023-08-10 14:08:03.925	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-17
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:55:22.000	2023-07-04 12:56:22.687	2023-08-10 14:08:04.112	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_21.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:30:56.000	2023-07-04 14:31:56.687	2023-08-10 14:07:58.559	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_2.5
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:41:32.000	2023-07-04 15:42:32.980	2023-08-10 14:08:04.159	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-18
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:42:38.000	2023-07-04 15:43:38.980	2023-08-10 14:08:04.221	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-16
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:43:44.000	2023-07-04 15:44:44.687	2023-08-10 14:08:04.377	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-17
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:44:48.000	2023-07-04 15:45:48.686	2023-08-10 14:08:04.424	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-18
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:45:54.000	2023-07-04 15:46:54.687	2023-08-10 14:08:04.455	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-16
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:47:00.000	2023-07-04 15:48:00.687	2023-08-10 14:08:04.596	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-17
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:48:06.000	2023-07-04 15:49:06.687	2023-08-10 14:08:04.627	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-18
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:49:11.000	2023-07-04 15:50:11.980	2023-08-10 14:08:04.689	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-16
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:50:17.000	2023-07-04 15:51:17.687	2023-08-10 14:08:04.830	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-17
C:/Users/Supervisor/Documents/Chloe	2023-07-04 15:51:23.000	2023-07-04 15:52:23.687	2023-08-10 14:08:04.892	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-18
C:/Users/Supervisor/Documents/Chloe	2023-07-04 14:32:01.000	2023-07-04 14:33:01.687	2023-08-10 14:07:58.605	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	SM01zr_UPb_3.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:56:27.000	2023-07-04 12:57:27.687	2023-08-10 14:08:04.955	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_22.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:57:33.000	2023-07-04 12:58:33.687	2023-08-10 14:08:05.079	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_22.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:39:09.000	2023-07-04 12:40:09.980	2023-08-10 14:08:05.126	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:58:38.000	2023-07-04 12:59:38.687	2023-08-10 14:08:05.173	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_26.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 12:59:43.000	2023-07-04 13:00:43.687	2023-08-10 14:08:05.313	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_26.2
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:00:48.000	2023-07-04 13:01:48.687	2023-08-10 14:08:05.376	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_28.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:01:52.000	2023-07-04 13:02:52.687	2023-08-10 14:08:05.407	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_29.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:02:57.000	2023-07-04 13:03:57.981	2023-08-10 14:08:05.594	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_32.1
C:/Users/Supervisor/Documents/Chloe	2023-07-04 13:04:02.000	2023-07-04 13:05:02.688	2023-08-10 14:08:05.641	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_32.2

C:/Users/Supervisor/Documents/Chloe(	2023-07-04 13:05:07.000	2023-07-04 13:06:07.980	2023-08-10 14:08:05.688	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	BG01b1_UPb_33.1

Laser Log Files

File	File start time	File end time	Time file loaded	Samples	Offset (s)	Widths
C:/Users/Supervisor/Documents/Chloe(	2023-07-04 13:37:34.124	2023-07-04 16:52:04.222	2023-08-10 14:09:09.507	NIST610-1,PLE-1,SM01zr_UPb_1.3,SM01	-3573.815683	30

BG01b1	Final Pb206/U	Final Pb206/U	Final Pb206/U	Final Pb206/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb208/T	Final Pb208/T	Final Pb208/T	Final Pb208/T	Final Pb207/P	Final Pb207/P	Final Pb207/P	Final Pb207/P	Final U238/Pb	Final U238/Pb	Final U/Th_m	Approx_U_PP	Approx_Th_P	Approx_Pb_PPM_mean	rho 206Pb/23	rho 207Pb/206Pb v 238U/206Pb	206/238 % error
BG01b1_UPb_	0.067396459	0.000704067	420.4205881	4.257077761	0.546509476	0.012910929	443.1035087	8.176263334	0.02121206	0.000624695	424.2360864	12.36169077	0.058644456	0.001507844	538.5133985	54.79728759	14.8425743	0.176370189	1.11405693	235.6604866	215.2634149	42.61300118	0.02489784	0.727199991	1.012575949
BG01b1_UPb_	0.065928674	0.000991877	411.5655385	5.998429456	0.502387015	0.02197925	412.6903824	14.88838728	0.019640713	0.000708667	393.120578	14.04777041	0.056068018	0.002369454	437.3786773	98.46357325	15.18627564	0.229136948	0.937581649	210.9746311	224.6484076	38.81292123	0.187899574	0.219501744	1.457466405
BG01b1_UPb_	0.06681295	0.000893717	416.8757383	5.396276834	0.679844563	0.035301597	521.5400109	20.34913267	0.02280543	0.001024097	455.6054936	20.12259534	0.074554346	0.004148349	990.8957218	108.6993001	14.99162898	0.209874022	0.938302177	139.7580723	155.7161922	34.24574713	0.160806327	0.344900268	1.294456918
BG01b1_UPb_	0.06569961	0.000759573	410.1586365	4.598051751	0.498705539	0.016078257	411.1536668	11.36381171	0.020242503	0.000631333	405.0287582	12.50156638	0.055008643	0.001826429	377.647821	77.01043327	15.26774285	0.184589627	1.054246546	121.4385432	118.1835502	22.5908219	0.287543172	0.081463277	1.121042285
BG01b1_UPb_	0.065702625	0.000792724	410.1735886	4.798161216	0.487867621	0.013973474	403.8217634	9.956918056	0.020000298	0.000605441	400.2363246	11.99530105	0.05403495	0.001670752	333.3098329	70.98742514	15.27092926	0.190810397	1.329409253	129.94964	99.49358277	18.53574183	0.085409519	0.57450887	1.169787951
BG01b1_UPb_	0.064358102	0.000978231	402.0522769	5.929760314	0.490970722	0.020690741	404.6808155	14.22568896	0.019870199	0.000694612	397.6635836	13.76475319	0.055764268	0.002249703	417.3481748	96.53606051	15.5073401	0.211483838	1.395981892	285.773515	206.1039455	36.10752007	0.310855702	0.09959846	1.474872959
BG01b1_UPb_	0.066127624	0.00068986	412.7551867	4.163407374	0.521870583	0.017277986	426.6445902	12.01406596	0.020475465	0.000625033	409.6475482	12.37626255	0.057705026	0.001909514	478.2283626	70.9926844	15.1551455	0.150230397	1.193017266	150.3724035	128.7232035	24.80695933	0.275872168	0.413078777	1.00868687
BG01b1_UPb_	0.068234558	0.000898134	425.4589731	5.427168482	0.534608115	0.014246139	433.7762533	9.385281858	0.021588353	0.000685681	431.6661452	13.57070262	0.057073163	0.001608553	464.022736	61.05259886	14.71613044	0.205066987	1.542829196	200.1979445	130.6179184	25.96096921	0.394616891	0.12867157	1.275603249
BG01b1_UPb_	0.066663448	0.00081815	415.9811397	4.946920756	0.515029307	0.017531127	420.1758175	11.66837702	0.020456353	0.000678491	409.2526169	13.42716951	0.055993952	0.002045833	413.9026939	84.59562739	15.05141895	0.18991564	1.190070719	103.1992031	87.33714671	16.6900074	-0.01858798	0.518873911	1.189217559
BG01b1_UPb_	0.065766238	0.000784176	410.560514	4.744882766	0.51227413	0.014255043	420.3530285	9.963018552	0.020309175	0.000623667	406.3535116	12.34935828	0.056575721	0.001715722	440.7107404	66.32984669	15.2527314	0.185628974	1.049915597	169.4750956	162.1591858	31.10933129	0.0331041	0.650692967	1.155708502
BG01b1_UPb_	0.065428885	0.001119357	408.5150525	6.787054651	0.495001123	0.02356431	406.7297129	16.062684	0.02039495	0.000721883	408.0501434	14.29811106	0.055061882	0.002901432	357.4730242	122.8384687	15.34130333	0.286801394	0.954495298	215.8841535	225.9417599	41.88673009	0.310801894	0.058505154	1.661396467
BG01b1_UPb_	0.066339625	0.000750867	414.030034	4.540431702	0.510785067	0.014890829	417.7434236	9.939153251	0.020664744	0.000627586	413.3960923	12.42851285	0.055860634	0.001684757	410.3707992	67.65860415	15.11716505	0.173783702	1.51024074	236.7561759	158.3031935	30.5497817	0.181334183	0.331067483	1.096643076
BG01b1_UPb_	0.068379455	0.001098638	426.3506818	6.630401262	0.52393686	0.025275343	426.2556175	17.02948313	0.021269776	0.000733083	425.3765288	14.50771683	0.057188257	0.002691057	486.8518829	92.01775139	14.6627386	0.238238627	1.105459455	189.1270593	171.2498531	32.6981995	0.480362943	-0.00428987	1.555152025
BG01b1_UPb_	0.067131991	0.000726488	418.8214744	4.389168559	0.541418304	0.0199083	437.2869024	12.90899275	0.020991006	0.000667867	419.8458887	13.21585551	0.058130136	0.001992254	490.9806365	73.63499405	14.93395094	0.163237926	1.211299862	147.2229818	121.2240866	23.44074904	0.307430548	0.014085489	1.047980781
BG01b1_UPb_	0.06632668	0.000682547	413.9593278	4.128906215	0.513262592	0.01602553	419.2411279	10.6994305	0.020557683	0.000615418	411.2793299	12.18584806	0.056140825	0.001819163	417.6727403	71.35161914	15.15111265	0.180752406	1.438242632	185.2372809	129.0198845	24.71646758	0.036934756	0.544461832	0.99741833
BG01b1_UPb_	0.066623856	0.000688266	415.7551675	4.160336713	0.494971897	0.020770728	405.8889761	14.02201335	0.021216566	0.000712967	424.2977051	14.10119215	0.053329288	0.002172514	295.8956267	102.9338824	14.99769465	0.170519612	1.2896759	92.96075195	72.10207832	14.18245132	0.092324933	0.149266314	1.000669875
Linked selectio	0.061394123	0.001433655	384.0287401	8.683525578	0.486547509	0.020254648	401.3862293	13.97202264	0.018540479	0.000953172	371.231288	18.94991422	0.058082656	0.002472597	546.5541208	76.77370408	16.38773056	0.364174879	1.685128838	281.1327655	172.9530175	30.59545506	0.722003716	0.177771811	2.261165551
BG01b1_UPb_	0.062424343	0.00120239	390.3297145	7.288880302	0.512943913	0.019302264	419.9562318	12.86231515	0.020157275	0.000841577	403.3470421	16.66311012	0.060528967	0.002275418	609.9589307	79.57572329	16.05126538	0.301786836	1.586760899	472.8092294	297.0652163	52.69049477	0.314952592	0.191958046	1.867364956
	0.060405112	0.00248706	377.9798047	15.05365477	0.461206962	0.032221063	383.5590269	22.37190585	0.017506361	0.001034939	350.7280735	20.56396991	0.055824523	0.004116726	385.9027009	181.4528347	16.71073712	0.622407681	1.775930012	104.2006449	58.38791083	10.20003379	0.833707397	0.034530013	3.982661132
BG01b1_UPb_	0.066408697	0.000630889	414.4601797	3.812367606	0.535331383	0.014773318	434.1999064	9.71141793	0.020711206	0.000636927	414.314462	12.61256399	0.058039404	0.001491317	516.6878069	61.40334475	15.08538003	0.142502408	1.030678914	198.0926629	195.7315378	38.46685678	0.041935612	0.513024116	0.919839298
BG01b1_UPb_	0.069169502	0.000869306	431.1015453	5.239637568	0.593848883	0.017676244	473.5393927	11.73610705	0.022935646	0.000726197	458.2999572	14.33973224	0.061917752	0.002047964	630.0192848	71.18925773	14.50955111	0.182937576	1.527702092	168.4131609	111.2735753	23.43721797	0.123644006	0.439635648	1.215406817
BG01b1_UPb_	0.06804843	0.001089673	424.3081149	6.57110231	0.534846298	0.017245622	435.2888166	11.94896315	0.020789488	0.000638274	415.8637883	12.63372946	0.057248346	0.002195184	444.7051354	85.17580003	14.783475	0.233981592	1.383244001	154.0234024	111.6220697	21.60209548	-0.21326932	0.793132546	1.548662889
BG01b1_UPb_	0.065192199	0.001119237	407.0635176	6.777876923	0.530147715	0.019634797	430.3774814	13.06575229	0.021189468	0.000801772	423.7507914	15.84976361	0.059493368	0.002379863	562.841361	77.33639175	15.42039868	0.27636885	1.543292434	211.2764566	141.8641932	27.31741005	0.115038745	0.776950605	1.66506617
BG01b1_UPb_	0.065978093	0.000693775	411.8498613	4.201384604	0.519049943	0.015467142	423.2131788	10.19097251	0.021532744	0.000688372	430.564163	13.6124243	0.057228955	0.001621358	469.1395403	61.92191978	15.19493093	0.171085173	1.273608161	185.4241986	144.1260863	28.47754389	0.254763978	0.64461943	1.020125293
BG01b1_UPb_	0.065452815	0.000648646	408.6765303	3.925304797	0.490741057	0.015001962	405.6818137	9.854788801	0.020851359	0.000615927	417.0958181	12.19609421	0.054971945	0.001694882	384.1836161	68.18549489	15.3919061	0.234291683	1.312268834	165.7000782	125.8705146	24.52469184	0.269350767	0.863082608	0.960491857
BG01b1_UPb_	0.066883993	0.000731384	417.3225963	4.423393548	0.506980256	0.016019376	414.9737817	10.84554615	0.02128658	0.000655241	425.7024065	12.96637231	0.055473764	0.001706677	393.6370755	69.67493786	15.06825158	0.236466597	1.512479355	158.1115014	104.0331533	20.65910677	0.370995666	0.948575532	1.059945852
BG01b2																									
BG01b2_UPb_	0.067402392	0.000825126	420.443573	4.979826114	0.764258772	0.033199265	571.9962109	18.89214404	0.023633603	0.000897292	472.0240924	17.7397357	0.081909785	0.00327372	1192.244955	78.39992897	14.88562669	0.179659226	1.159195828	106.0201611	93.86818183	20.58005924	0.362570218	-0.08968257	1.184421985
BG01b2_UPb_	0.064219462	0.000666125	401.2088144	4.036639747	0.476982492	0.016145326	394.5044495	11.07531729	0.020311484	0.000629123	406.3970162	12.46242934	0.053692424	0.001847378	323.0299495	86.00454987	15.58193345	0.173251022	1.070699666	104.5275534	96.94008988	18.3902951	-0.11148622	0.474580803	1.006119408
BG01b2_UPb_	0.067875422	0.000865848	423.2963158	5.228161361	0.541540391	0.02064952	437.2333914	13.49104642	0.022245095	0.000768503	444.6324633	15.1889374	0.057665626	0.002098549	487.2362793	83.41182713	14.78662187	0.19174054	1.28219375	109.2322638	85.55722175	17.45474381	0.133357911	0.193045623	1.235106748
BG01b2_UPb_	0.065576186	0.000602205	409.4279921	3.643922201	0.503640515	0.014966666	412.9217598	10.16789083	0.020972269	0.000646466	419.4822186	12.79758131	0.055602108	0.001653297	411.3591914	65.49899766	15.27512644	0.141803164	1.39801835	129.6982898	92.47048504	18.21913293	0.180269501	0.16581858	0.890003193
BG01b2_UPb_	0.061550384	0.000736976	385.0135702	4.476822586	0.495568152	0.013727915	407.6432174	9.367599265	0.0197824	0.000577309	395.9250447	11.44307218	0.058611475	0.001767559	527.3981144	70.56144173	16.29836447	0.19852175	1.650522144	208.8636473	122.8127537	22.86762461	-0.04408733	0.352463072	1.162770077
BG01b2_UPb_	0.065868272	0.000607691	411.1941841	3.673313205	0.503074329	0.015333495	412.5006385	10.20080833	0.021110428	0.00065697	422.2144888	13.00078312	0.055276128	0.001715474	397.3780354	69.99178131	15.20732842	0.138519342	1.404093443	157.5909306	111.7786438	21.94943676	-0.08434035	0.387675041	0.893328103
BG01b2_UPb_	0.065523734	0.001133005	409.087976	6.852022274	0.504555114	0.026473081	412.818733	17.86736559	0.02099529	0.000890246	419.9074951	17.61884995	0.057627875	0.004065543	427.8997292	150.6221651	15.31528478	0.263212813	1.111772204	107.3704927	95.87079743	18.28337988	-0.41069178	0.685763613	1.674950787
BG01b2_UPb_	0.064426404	0.000775714	402.452307	4.696363047	0.494753336	0.023895118	405.0248603	16.27107644	0.020848989	0.000665808	417.0354106	13.18007454	0.055187786	0.002586689	380.5080873	110.1181093	15.54443563	0.193316781	1.128638249	74.04700742	65.31971027	12.84075106	0.090740378	0.15300868	1.166936545
BG01b2_UPb_	0.064731124	0.000652894	404.3095008	3.953703551	0.49727573	0.013771005	408.8204032	9.378203777	0.020289331	0.000601104	405.9669881	11.9090155	0.055848095	0.001635183	411.5601526	68.82974691	15.45719112	0.150332448	1.482266651	210.3559641	142.8056846	26.93599047	-0.0112614	0.328572541	0.97789034
BG01b2_UPb_	0.064452788	0.000683949	402.6206561	4.141145303	0.492495586	0.017646756	404.8719784	12.00421692	0.020194279	0.000592003	404.0854258	11.72805184	0.055457225	0.001985968	418.7764198	78.97301849	15.55179863	0.164826442	0.88561345	138.9778269	156.9780739	29.76243227	0.077507485	0.180261767	1.028547652
BG01b2_UPb_	0.062485264	0.000568029	390.7072321	3.446036535	0.489299862	0.016630619	403.1784692	11.26671734	0.019518545	0.000598112	390.6919166	11.85321856	0.056854665	0.001977895	447.331787	78.57432022	16.02498088	0.145525565	1.101401393	194.2637569	176.0526593	31.70111086	-0.34515824	0.65520188	0.88199968
BG01b2_UPb_	0.065953028	0.000495522	412.1171589	3.130063554	0.508647392	0.013984702	416.466429	9.440074704	0.020669247	0.000609544	413.4913786	12.06882033	0.055956252	0.001613081	417.3167963	65.87740659	15.16322522	0.118841007	1.473925537	178.9798312	121.8631485	23.48677097	-0.06466207	0.27914315	0.759508185
BG01b2_UPb_	0.065254514	0.000584875	407.4832447	3.539410119	0.502291865	0.015089291	412.0188237	10.15179346	0.020917941	0.000610828	418.4171888	12.08832496	0.055636107	0.001693882	402.0537767	68.51781116	15.3485165	0.138296576	1.512372099	181.9786266	119.8097668	23.75575078	-0.001934	0.267784694	0.868602615
BG01b2_UPb_	0.061367485	0.00076636	383.8993091	4.654062902	0.473025748	0.016971782	391.6122838	11.68553402	0.018622312	0.000634286	372.8949289	12.58333825	0.055948533	0.001963038	423.1871852	82.53662111	16.35185249	0.205008015	1.470097386	113.2753741	76.73139161	13.4938025	0.23528037	0.060383542	1.212313435
BG01b2_UPb_	0.06627773	0.000853168	413.6715434	5.158664537	0.51292481	0.019891861	419.4917142	13.36520948	0.020766609	0.000788155	415.4064198	15.58371174	0.056533308	0.002421388	442.6236634	95.96542203	15.11189481	0.196398432	1.128629512	145.7977309	129.7056183	24.06380742	-0.62043749	0.808913712	1.247043607
BG01b2_UPb_	0.062597526	0.000802456	391.3654428	4.868106743	0.494036857	0.015341435	406.44607	10.3894725	0.019544558	0.000604123	391.2032746	11.97508783	0.057318601	0.001841251	467.7458735	70.42737962	16.02925479	0.206829976	0.951074884	185.3232614	200.548854	35.85812482	0.168505503	0.27927752	1.243877515
BG01b2_UPb_	0.065949711	0.00065508	411.682514	3.96107518	0.50194276	0.015669862	411.6584027	10.54212699	0.020993782	0.000643905	419.9087466	12.74527214	0.055218923	0.001697239	402.8253805	74.83892272	15.19398275	0.150954244	1.485621226	129.575919	87.15736865	16.9764892	0.108104514	0.295035415	0.962167458
BG01b2_UPb_	0.065813868	0.000670933	410.859189	4.055124984	0.495216364	0.018855474	406.4473689	12.77651985	0.020915063	0.000684606	418.3363638	13.55444276	0.054798074	0.002182301	338.7493066	92.60688271	15.22704715	0.152380155	1.533331378	123.933026	81.16097655	15.81545567	-0.22310849	0.495542408	0.986986562
BG01b2_UPb_	0.060283399	0.000594108	377.3357344	3.612845578	0.489075449	0.01790706	403.1408149	12.23010902	0.02033288	0.000669063	406.8242623	13.24308661	0.058712816	0.002099602	575.4860773	86.13202723	16.60929615	0.165292942	1.647758606	292.866509	179.5511934	33.08391922	-0.03275594	0.381287849	0.957461817
BG01b2_UPb_	0.065153542	0.000685167	406.8634228	4.143332468	0.499854819	0.015358419	410.3200556	10.35788391	0.020555263	0.000608417	411.2338774	12.05084719	0.055680897	0.00180895	398.8456235	73.15337646	15.3827301	0.158427854	1.269714261	136.6215232	107.8045809	20.98967797	0.02939269	0.282601601	1.018359537
BG01b2_UPb_	0.064862071	0.000686641	405.0980624	4.159117059	0.576841892	0.02215627	459.9380832	14.21557204	0.022299306	0.000699982	445.7277744	13.83925608	0.064418103	0.002529707	697.0542176	87.0729075	15.41793565	0.149280886	1.1697082	105.055053	90.93671897	18.78236539	0.064256994	0.224469182	1.026693891
BG01b2_UPb_	0.064874958	0.000587557	405.1856597	3.556637804	0.494877719	0.014552237	407.0616528	9.891683168	0.020975543	0.000609741	419.5582187	12.06699083	0.055342635	0.001706948	398.2235734	69.95445349	15.4200635	0.145529332	1.238028729	152.5343463	123.6708618	24.22543148	-0.05108132	0.345262308	0.877779783
BG01b2_UPb_	0.0668374	0.000902808	417.0212902	5.451199059	0.627168424	0.037698912	487.7951367	22.81201604	0.023219978	0.001109829	463.7506913	21.89036712	0.066963007	0.003389761	763.0131123	106.0319819	14.9892714	0.188555465	1.161148164	159.3049202	138.1048018	29.52086695	0.632099439	-0.39321011	1.307175242
BG01b2_UPb_	0.064320441	0.000586817	401.8278633	3.556114609	0.489130658	0.011246486	403.6175776	7.65585967	0.020180008	0.000622459	403.7940736	12.33113377	0.055489342	0.001357345	417.3199549	55.90129032	15.54838433	0.135508558	1.443969092	190.2595936	132.5952643	25.06926417	0.185888391	0.195316065	0.884984575
BG01b2_UPb_	0.064382338	0.000643864	402.1996504	3.900599876	0.499621634	0.012875636	410.6052397	8.712404528	0.021138192	0.000662748	422.7655977	13.1132738	0.056833252	0.001543076	468.7560597	60.16455989	15.56187413	0.157845993	1.555312341	296.4782138	211.0602716	41.00130415	0.316634965	0.210009109	0.969816824
BG01b2_UPb_	0.067819898	0.000737074	422.9755081	4.441521354	0.521059947	0.021248497	423.4436457	14.14492495	0.022050635	0.000717092	440.8039344	14.17795832	0.055573922	0.002055917	402.8670597	88.50123344	14.78005954	0.153806265	1.203531133	101.7605796	87.08806538	16.98657572	0.673525697	-0.34569899	1.050065848
BG01b2_UPb_	0.066447856	0.000712596	414.6892696	4.306525402	0.498895673	0.018845468	409.0138767	12.64549508	0.020557794	0.000630652	411.2772514	12.4868182	0.054564155	0.00209806	335.765836	88.07584801	15.08572313	0.161406618	1.19737146	111.1185491	93.6334067	17.8049101	0.054337284	0.212929054	1.038494535
BG01b2_UPb_	0.064615881	0.000638673	403.6124761	3.868578657	0.510202903	0.014600856	417.4240168	9.813236827	0.02070036	0.000625932	414.102933	12.39145834	0.057277641	0.001645451	469.7525629	64.99666111	15.48366217	0.147676426	1.36092316	146.8032398	107.7549743	20.86681311	0.166406671	0.147736898	0.958488373
BG01b2_UPb_	0.066684331	0.000694401	416.1206443	4.197850092	0.500998225	0.020301936	410.1420384	13.66409285	0.021283934	0.00071511	425.6317512	14.14815203	0.054551875	0.002221182	326.3484857	96.58701644	15.00718445	0.151675207	1.371197185	102.9303362	75.51887184	14.77469105	0.094095802	0.138271703	1.008806016
BG01b2_UPb_	0.065992205	0.000821574	411.9239797	4.966074578	0.493108191	0.021505333	406.8985647	13.92352359	0.020757858	0.000674524	415.2281036	13.3518904	0.054479742	0.002296719	336.76446	95.49388748	15.20286781	0.18785021	1.307670209	99.49897533	76.67403763	14.7774308	0.2329458	0.035675145	1.205580355
BG01b2_UPb_	0.067199217	0.000822592	419.2179524	4.96432919	0.491372007	0.019110723	405.8136088	13.53321262	0.020933863	0.000686231	418.7090601	13.58138338	0.053335283	0.002074448	278.7320942	94.55030158	14.92878062	0.178738974	1.171167553	105.7067077	93.49696098	17.91046561	0.256485036	0.039255652	1.18418812
BG01b2_UPb_	0.06618398	0.000641375	413.100881	3.878254573	0.514949049	0.017949662	422.1242222	12.64927707	0.021142213	0.000689659	422.8342035	13.64717075	0.056804691	0.002046899	442.985976	85.62813387	15.13805543	0.147877388	1.360691503	122.6520518	89.75839212	17.60961226	0.138626061	0.096421449	0.938815372
BG01b2_UPb_	0.062857067	0.000596076	392.9571261	3.616224041	0.477392667	0.013770193	395.202602	9.462270113	0.020018003	0.000627421	400.5813113	12.43143258	0.055185775	0.001649965	393.2673845	70.62173168	15.93817048	0.153041283	1.511757455	170.9791492	112.2331105	20.88083068	0.128433625	0.188715227	0.920259184
G_NIST610																									
NIST610-1	0.238236875	0.00197296	1377.410881	10.2615578	29.38242083	0.15242978	3466.145405	5.114274974	0.50689161	0.013172044	8287.703108	176.4846542	0.891379821	0.004265151	4996.616711	0	4.201474926	0.03451554	0.934545502	275.5644615	294.4739126	1371.026064	0.612459398	0.444818492	0.744988874
NIST610-2	0.231199909	0.012472622	1334.101565	56.78460677	28.58659277	1.417765239	3424.37713	30.13120292	0.479029129	0.012629967	7909.891021	172.3690659	0.89202357	0.004558908	4993.823241	0	4.508624268	0.037499494	0.937998337	355.7879457	379.3263247	1711.70783	0.998520331	0.139600126	4.256393085
NIST610-3	0.25677979	0.024108928	1448.67101	108.7107541	31.66727421	2.862556326	3495.776951	61.76024293	0.479521817	0.01258431	7916.781211	171.7210179	0.890978329	0.004152034	4995.94588	7.931655999	4.194501769	0.19865164	0.935052938	362.2447306	386.4137465	1749.086653	0.998320249	0.185891747	7.504171296
NIST610-4	0.237348277	0.016610635	1361.168494	74.50166602	30.11206329	2.015178947	3451.967752	32.74059744	0.48545132	0.012725119	7997.631665	172.6460659	0.917713884	0.003906248			4.504467999	0.045298656	0.909703952	386.3634395	426.6983001	1930.727966	0.998595929	0.133132272	5.473361039
NIST610-5	0.238295095	0.017465442	1364.929846	77.45576659	30.20415474	2.167820572	3463.756816	40.96222225	0.484697645	0.012740758	7987.269349	173.0313739	0.917203636	0.004499624			4.434519717	0.096940069	0.907410931	385.9866641	426.1074734	1932.464498	0.998554237	0.00640238	5.674706786
NIST610-6	0.231790111	0.014099699	1335.131918	64.78369491	29.47464877	1.703127432	3448.280551	35.72593773	0.476701276	0.012453935	7878.359849	170.1178522	0.920670431	0.003636493			4.476940691	0.111520674	0.900630583	386.8185237	429.7135251	1912.428025	0.998838013	0.13517291	4.852231755
NIST610-7	0.228540075	0.009786184	1300.865225	11.95586616	28.65988714	1.171272801	3420.656284	8.122837193	0.487477496	0.012839287	8025.058315	174.1976455	0.907703368	0.004157398			4.483630315	0.050357821	0.959010562	352.4451742	367.8496466	1676.531937	0.998572056	0.10901722	0.919070318
NIST610-8	0.223287847	0.002171806	1299.013193	11.40529082	27.95148334	0.206955065	3416.753093	7.153212246	0.481968029	0.012662817	7950.178452	172.2609698	0.90592639	0.003577779			4.487081893	0.042174444	0.955854242	354.0586754	371.1311179	1672.400216	0.998825789	-0.01046376	0.877996535
NIST610-9	0.26141351	0.027927113	1439.573959	111.9462765	32.17115595	3.298387318	3488.76222	62.14000918	0.49340963	0.013302202	8104.547314	178.0814505	0.895024583	0.004387529	4923.511973	99.03691681	4.245123071	0.181420397	0.941770219	330.8085737	351.2815529	1626.026073	0.995355416	0.022978047	7.776347702
NIST610-10	0.236411119	0.01362839	1339.944432	49.2167097	28.47608463	1.240743058	3422.926887	27.73730226	0.492119558	0.013099077	8087.584113	175.7984377	0.888798275	0.003476278			4.466538589	0.046037251	0.938410393	326.1598074	347.9021842	1601.589141	0.998757273	-0.00440065	3.6730411
NIST610-11	0.240922497	0.018165167	1356.048548	70.57061645	29.59509694	2.066249255	3420.999572	30.63160088	0.491742275	0.013182911	8082.145326	176.5427818	0.894383462	0.004304256	4993.498341	0	4.508704481	0.040566914	0.951599392	363.8952065	382.8296638	1764.390387	0.996472143	0.034100257	5.204136427
NIST610-12	0.250890567	0.019792681	1367.206171	61.76004036	30.83379461	2.305365395	3444.731987	35.23620897	0.492470687	0.013125229	8114.291763	238.6492304	0.894271372	0.004146199	4982.928987	0	4.357259488	0.111726176	0.949080679	358.9114745	378.7033925	1758.65908	0.998406305	0.187046494	4.517244119
NIST610-13	0.242375476	0.016756477	1386.644194	76.30606664	30.43918832	2.293521746	3441.799297	36.37997556	0.494978849	0.013147469	8126.234485	176.1993517	0.893691326	0.003479176	4980.786036	19.78882501	4.399145352	0.097639822	0.946541378	359.0875257	378.9560043	1757.278499	0.997238232	0.107978321	5.502930528
NIST610-14	0.223216465	0.002212492	1298.635942	11.62778887	27.61309852	0.278599292	3404.376573	9.348924727	0.49567839	0.01302548	8136.1286	175.2598069	0.894459443	0.004207566	4997.613841	0	4.488623388	0.04332892	0.950510673	362.2696137	381.5625224	1774.741186	0.99818132	-0.11407777	0.895384803
NIST610-15	0.240766713	0.019107289	1375.300131	84.56486512	29.57238753	2.133121908	3429.761329	34.58861868	0.495391739	0.012996741	8154.148174	268.0047855	0.898220131	0.004462293	4881.85364	149.8980366	4.49454484	0.063074211	0.948854768	356.840104	376.5059902	1718.059426	0.996550458	0.187490819	6.148829859
NIST610-16	0.219791494	0.002216932	1280.553474	11.66069705	28.24175784	1.079284276	3407.843636	7.111055948	0.478988227	0.012670558	7909.210269	171.9724464	0.911381427	0.004014984			4.558937276	0.043857702	0.950236094	349.3212293	367.7443784	1646.286817	0.998186037	0.187121737	0.910598213
NIST610-17	0.22490264	0.008489878	1304.563597	39.0737139	28.32586365	1.088266919	3421.698253	22.67310601	0.480397536	0.012599303	7928.761748	171.9091765	0.910472329	0.003851175			4.539449926	0.03478873	0.949993841	351.3012203	370.0203997	1658.333256	0.998877973	0.019405871	2.995155928
NIST610-18	0.233049912	0.014021778	1341.922369	64.359414	29.26190852	1.657512641	3442.013295	35.26226133	0.483903342	0.012781575	7976.319677	173.0275363	0.910607384	0.003966989			4.447137879	0.108633227	0.956822919	350.8985629	367.233486	1655.05795	0.999162606	0.048610108	4.796060898
SM01zr																									
SM01zr_UPb_1	0.054399219	0.00136668	341.4120278	8.350995255	0.817259987	0.038348081	604.0069772	20.56303174	0.024208054	0.000705181	483.457668	13.91149038	0.111827458	0.005814434	1802.039148	76.2021568	18.51448221	0.460721032	0.97855647	814.5126089	866.4747093	189.3695019	0.419268571	0.728039652	2.446016711

SM01zr_UPb_1	0.061984606	0.001165134	387.6374557	7.068368439	0.576293345	0.021335587	460.9288134	13.62071668	0.021252649	0.000672605	425.0437097	13.31208151	0.067099653	0.001928095	824.8583865	62.61685661	16.20035954	0.301631654	1.118838545	711.0009861	634.8611659	122.8396481	0.06451781	0.532052722	1.823448259
SM01zr_UPb_1	0.064698323	0.000679871	404.1073805	4.111958226	0.497245545	0.015555667	408.4951768	10.37794624	0.020321986	0.00063116	406.6042801	12.48868615	0.057042305	0.002406433	436.9005924	80.79922344	15.49169277	0.158252889	1.083239749	174.9542085	164.7516699	31.74042381	-0.43112331	0.896279331	1.017540987
SM01zr_UPb_2	0.062142195	0.000678444	388.6268438	4.119280528	0.539630266	0.022139138	436.9530464	14.55694179	0.022566871	0.001132945	450.9489787	22.35432578	0.063025108	0.002537763	681.4911715	84.20469465	16.2884314	0.415587442	2.055376839	332.7131498	161.2629714	32.49325733	-0.37622851	0.915130799	1.059957796
SM01zr_UPb_2	0.066102308	0.000530728	412.615809	3.20955083	0.495243129	0.012572959	408.9973669	8.136005823	0.020888426	0.000627094	417.8276733	12.4052029	0.054423626	0.001436574	370.7814069	57.04750304	15.14602903	0.122433296	1.531565368	230.5674503	150.9403126	29.54526845	-0.19434919	0.558875492	0.777854546
SM01zr_UPb_2	0.065328121	0.000619494	407.9251381	3.749044774	0.519835364	0.014767726	425.420823	9.428179373	0.021033679	0.000606736	420.709791	12.00828281	0.059157405	0.002526856	491.0102467	64.38093616	15.44921736	0.289293345	1.493312153	187.687726	126.0036706	24.91926182	0.092467438	0.999618117	0.919052155
SM01zr_UPb_2	0.066734348	0.000723865	416.4191118	4.373372338	0.52439399	0.023749239	428.5027563	16.37201133	0.021262694	0.000774549	425.1883488	15.31620258	0.058581263	0.003180674	472.3689899	111.3805005	15.02797229	0.162662935	1.412567218	131.9242014	99.18905944	20.22271682	0.054357884	0.147350173	1.050233338
SM01zr_UPb_2	0.147360663	0.002159286	886.0434456	12.11469512	1.403473337	0.041714718	888.8335778	17.65478078	0.044164365	0.00143616	873.4367484	27.79803954	0.069628094	0.001987218	904.849446	60.00150852	6.799653441	0.098100967	1.335840783	183.5702726	137.3763208	54.57206589	0.25190167	0.27997533	1.367280033
SM01zr_UPb_3	0.067005829	0.000585068	418.072609	3.533291013	0.51205058	0.010646576	419.2107025	7.094474239	0.021416354	0.000659966	428.2704811	13.04898553	0.055543122	0.001204235	415.600348	47.55819042	14.94599698	0.12925349	1.554648703	350.1880019	226.7004156	45.37641174	-0.25067179	0.636333148	0.845138126
																									#DIV/0!
SM02zr																									#DIV/0!
SM02zr_UPb_1	0.062686534	0.000947735	391.9043617	5.751010892	0.512374488	0.025899793	417.6113221	17.47104289	0.017978937	0.00073131	360.1153442	14.52792356	0.059517479	0.002908505	543.9693209	108.092537	16.00847602	0.246420358	0.970550891	101.9062212	103.8592029	17.10439422	0.250148024	0.008079956	1.467452637
SM02zr_UPb_1	0.059025611	0.001294143	369.6493874	7.878120644	0.56075678	0.063780433	444.650098	36.81097643	0.018460029	0.002840652	368.9515151	55.39126959	0.074854898	0.012761166	854.9627572	221.7036985	17.02333876	0.376742038	0.949825055	77.31262186	79.44024846	12.43343966	-0.20446586	0.453058128	2.131241363
SM02zr_UPb_1	0.062687472	0.000919688	391.8980456	5.574982914	0.474075875	0.016503781	392.5541211	11.36095265	0.019569252	0.000591673	391.6962262	11.72474312	0.054943096	0.00184045	368.0769478	76.9770511	16.02327234	0.231140651	0.917637354	154.9937263	168.7899406	30.74834392	0.313346034	0.092540311	1.422559509
SM02zr_UPb_1	0.065740668	0.000662861	410.4179273	4.010927973	0.501588017	0.017542605	411.1170998	11.75709701	0.020383583	0.000599804	407.8348735	11.87835474	0.055188244	0.001896077	384.4538148	79.88029078	15.24332888	0.156476482	0.745377768	107.5070912	144.9037433	27.16393388	0.250077481	0.072725299	0.977278941
SM02zr_UPb_1	0.065196978	0.000779952	407.1155176	4.723974898	0.485708127	0.017073177	402.1934406	12.14958639	0.020999701	0.000649072	420.0240904	12.8462939	0.054807532	0.00213462	343.7558177	88.71518257	15.3885978	0.191232447	1.073000068	96.84687753	90.43655029	17.49093946	-0.00730354	0.468388547	1.160352454
SM02zr_UPb_2	0.06078123	0.001030349	380.3390152	6.25685952	0.472077348	0.023654021	390.9943765	16.25316384	0.01800996	0.000741514	360.7413628	14.7208024	0.056657185	0.002876759	426.7073303	116.8333011	16.5073782	0.275977876	0.829473855	95.98110777	115.5944697	18.75568291	-0.10767787	0.270767473	1.645074333
SM02zr_UPb_2	0.058470653	0.001298734	366.2417519	7.913046764	0.482139537	0.026108834	396.9792792	17.89925877	0.017257847	0.000765163	345.7821522	15.19542513	0.060569885	0.003677222	555.3496458	132.7790019	17.2399734	0.396329836	0.840186979	89.36586646	104.8722999	16.6380192	-0.09724741	0.440498413	2.160607501
SM02zr_UPb_2	0.065236436	0.000685039	407.3684972	4.144957216	0.489490233	0.020869475	402.4441598	14.24182909	0.020462682	0.000643579	409.3932324	12.7471141	0.054745089	0.002465774	372.9878976	100.8647399	15.33468643	0.169461504	1.07552526	84.50764867	78.51672406	14.97661276	0.06610005	0.152771647	1.017495767
SM02zr_UPb_2	0.065147594	0.000787986	406.8197019	4.768715677	0.478180029	0.01890771	394.963148	12.94631347	0.020357348	0.000620123	407.3110076	12.28438812	0.053592269	0.002176112	311.7465511	87.11528518	15.39492457	0.187351584	0.918704204	111.5174335	122.8594735	22.88882153	0.183439413	0.224767803	1.172193887
SM02zr_UPb_2	0.066647697	0.000798137	415.887796	4.825547911	0.519706994	0.021371523	422.480259	14.25118792	0.021050815	0.000746074	421.0040897	14.76470424	0.05663648	0.002321488	429.9097697	88.07721817	15.05253008	0.184403794	1.254052124	74.47455703	59.10055183	11.59703945	-0.03740288	0.396842414	1.160300436
SM02zr_UPb_2	0.06774934	0.001741509	422.5546854	10.51627932	0.541958987	0.019760056	439.443107	13.0591605	0.021344698	0.00100856	426.8616829	19.95382877	0.059453618	0.001397755	580.117861	50.89643665	14.79157137	0.384588809	5.846701108	2279.654925	429.0890655	78.08664632	0.792239796	-0.04701135	2.488738069
SM02zr_UPb_3	0.066775115	0.000646295	416.6732358	3.905915086	0.50423794	0.017237893	412.9463223	11.48754466	0.02110798	0.000683921	422.1573639	13.54196718	0.05465252	0.001836111	352.9050904	76.58565907	15.00451799	0.146201455	1.166743619	106.7512023	91.56282712	18.10407427	-0.25313561	0.650567227	0.937404842
SM02zr_UPb_3	0.065979093	0.000648323	411.8608057	3.92217948	0.501073955	0.016861739	410.8719414	11.25945646	0.02119756	0.000617498	423.9517959	12.22434491	0.055720361	0.002242555	385.5887685	82.56688474	15.18697898	0.152081968	0.834910522	119.5431126	141.9473074	28.63306301	-0.39218248	0.652726349	0.952307048
SM02zr_UPb_3	0.066467011	0.000781549	414.797908	4.723546077	0.515344257	0.023933036	418.9986514	15.79252894	0.02088352	0.00063843	417.719246	13.14029138	0.055923891	0.002490902	372.9234356	100.6054153	15.09014934	0.177942473	1.14793667	97.77955791	85.65792931	16.53019268	0.027686523	0.321559729	1.138758414
SM02zr_UPb_3	0.068627248	0.00085387	427.8348538	5.151608166	0.648460968	0.029287991	503.5713102	18.17809691	0.023432456	0.000795234	468.0944682	15.70390903	0.068481842	0.003243764	802.0033463	104.8265432	14.56910693	0.182469532	1.043182529	70.56939649	68.31375927	15.08355506	-0.08777011	0.345897025	1.204111381
SM02zr_UPb_3	0.065729569	0.000818444	410.3349432	4.951399339	0.518772979	0.022467937	421.6305667	15.05446939	0.020790611	0.000649807	415.883766	12.86372072	0.057103809	0.002509686	432.9712511	106.8038378	15.33876762	0.245853558	0.940232844	83.90439051	90.3774158	17.23345834	0.249637555	0.046370296	1.206672603
SM02zr_UPb_3	0.065943567	0.000817778	411.6289035	4.949379822	0.50853679	0.017700897	417.6751264	11.33853207	0.020532216	0.000649726	410.7647408	12.87121316	0.056182867	0.002072382	437.0323304	75.23097853	15.21724576	0.194738104	1.102319356	89.06294844	82.6128099	15.55179732	0.000441351	0.344700014	1.202388797
SM02zr_UPb_3	0.065444521	0.000896045	408.6054158	5.423468962	0.548159924	0.034983097	441.8303308	23.54434692	0.021031334	0.000727807	420.6305679	14.40231527	0.061974829	0.004357976	508.1320637	158.3626002	15.33955273	0.214325243	1.134540052	73.56311007	64.23975059	12.48316606	-0.22772077	0.408117061	1.32731206
SM02zr_UPb_3	0.064226238	0.000750558	401.2569655	4.549246211	0.482969376	0.021962318	401.7796686	13.85976126	0.020039597	0.00064638	401.0194815	12.81327664	0.05541714	0.001952085	415.931253	83.81926029	15.59636227	0.187084598	1.020648865	209.2021843	206.3167185	37.18703015	0.533296166	0.134822122	1.133748845
SM02zr_UPb_3	0.065643354	0.000743764	409.8211118	4.497192508	0.511482395	0.019393366	417.3920568	13.06361425	0.020802522	0.000666186	416.1141868	13.19425867	0.056792098	0.002239132	452.316908	83.20547703	15.27536108	0.171889131	0.983530188	93.75538323	95.97814209	18.47532887	0.076974473	0.267037729	1.097355011
SM02zr_UPb_3	0.066085677	0.000759833	412.4939909	4.594314102	0.493351897	0.017886101	405.3943529	12.04943876	0.020421477	0.000671279	408.5630118	13.29366175	0.054007736	0.002005211	314.0191844	86.9305392	15.17589784	0.175077964	1.075899492	83.76031814	77.27409095	14.65403001	-0.08008671	0.613618521	1.113789341
SM02zr_UPb_3	0.061047555	0.00076571	381.955858	4.652795542	0.49030628	0.016196288	403.6104549	11.17895402	0.018844509	0.000563678	377.3251163	11.18003381	0.058483709	0.002093567	498.7391853	80.02876465	16.43858565	0.208948787	0.763877839	152.3017142	196.9695352	34.85987716	-0.15958571	0.39584498	1.218150067
SM02zr_UPb_3	0.064680058	0.001440291	403.989112	8.717240099	0.603901047	0.053175663	476.3736065	32.5822167	0.020923603	0.001383206	418.4507762	27.34030665	0.068638474	0.006880987	879.0477141	225.4643249	15.50684642	0.343734839	0.813715029	83.96875948	104.4251922	19.04447728	-0.19332091	0.339836919	2.157790851
SM02zr_UPb_3	0.063079483	0.000949303	394.2762241	5.756772297	0.526886671	0.02280668	427.3681663	15.15033589	0.019981728	0.000665563	399.8565913	13.19454776	0.06066246	0.002708496	559.0883251	104.9761025	15.92372752	0.241721229	1.005674935	96.44183715	97.17672159	17.50370775	0.077046658	0.235195242	1.460086088
SM02zr_UPb_3	0.065920274	0.000763584	411.496602	4.615573427	0.507160213	0.018685322	417.169792	11.70924196	0.020525865	0.000660849	410.6381179	13.08275791	0.055433534	0.002006504	420.3441407	78.5776688	15.21013937	0.174570854	1.132054854	99.13551413	87.17792875	16.60437614	-0.0009723	0.436807453	1.121655295
SM02zr_UPb_3	0.066090529	0.000785767	412.5274273	4.754884697	0.500946446	0.02216002	410.1051095	14.85970401	0.020759128	0.000671272	415.2595015	13.28734213	0.055215536	0.002250371	368.5264001	90.12222606	15.2538062	0.255032102	1.059770816	92.28705076	87.70123143	16.78727874	-0.04076923	0.243764802	1.152622682
SM02zr_UPb_3	0.065591681	0.000695618	409.514482	4.208310581	0.493757483	0.021046507	405.1080203	14.27130927	0.020476016	0.000619523	409.6613782	12.27513833	0.054585638	0.002210491	329.4574639	97.13020478	15.28054096	0.163313307	1.051066975	101.5813715	96.37647795	18.22901833	0.247172207	0.05538318	1.027634129
SM02zr_UPb_4	0.062289407	0.001116534	389.4912863	6.78109697	0.627484926	0.035864651	491.5482932	21.84290143	0.019942917	0.000977034	399.0401319	19.34895724	0.073399147	0.004455662	968.3810378	115.7892385	16.11761518	0.299507379	0.902202117	97.0375877	108.027278	19.63355336	0.024256038	0.168016078	1.741013781
SM02zr_UPb_4	0.064630934	0.000712993	403.6985294	4.315747864	0.496381692	0.018778342	407.4124147	12.74131921	0.020348097	0.000659761	407.1158263	13.06653686	0.055594206	0.002154816	378.6909646	91.1123073	15.50975531	0.170047269	1.17030691	100.4766421	86.36440011	16.38995449	-0.30858571	0.618146572	1.069052164
SM02zr_UPb_4	0.064545219	0.001716051	403.1613194	10.37620051	0.52226314	0.04090481	424.5483915	27.34529147	0.019787267	0.000937645	396.04726	18.56996393	0.059455341	0.004257073	535.1085728	167.3748978	15.5522376	0.397894441	1.153342554	84.21365096	73.37469406	12.71956658	0.372839283	-0.06062206	2.573709334
SM02zr_UPb_5	0.311643822	0.018556303	1740.806538	90.89983042	29.78720251	1.894037694	3469.389212	59.60975632	0.109201188	0.006434282	2124.551252	93.43371015	0.704588595	0.044603643	4616.575762	75.57726728	3.36492936	0.222737464	0.182431849	2.636617168	14.44611009	14.8486081	0.465835549	0.667096446	5.221707778
SM02zr_UPb_5	0.275985725	0.006759297	1568.910537	34.19144027	25.81275968	0.723630939	3330.108926	27.69307403	0.110955992	0.003278043	2126.214167	59.62697518	0.679157284	0.020820922	4640.805035	39.18550364	3.678987581	0.094889944	0.205243017	6.338134723	30.97067959	32.25271378	0.326147375	0.494426759	2.179311023
SM02zr_UPb_5	0.301107231	0.0100873	1692.092608	49.81794729	29.02459199	1.06848651	3443.109997	37.40399852	0.135944649	0.006120949	2571.472754	108.4969094	0.701509837	0.018990826	4700.775751	34.65335115	3.394731161	0.110863519	0.223372657	5.500085532	24.68735993	30.95675801	0.708469892	0.223706974	2.944161983
SM02zr_UPb_7	0.067593416	0.000861052	421.59376	5.19946384	0.673566003	0.033045571	517.949709	20.16266988	0.024735089	0.00085642	493.7897992	16.88905321	0.072114327	0.003656219	923.7377213	114.4076932	14.81364951	0.178521912	1.240702586	82.00576071	66.25500293	15.37127101	-0.10709903	0.433370196	1.233287665
SM02zr_UPb_7	0.066191695	0.000743491	413.1398861	4.492723143	0.519585934	0.018818792	423.1135504	12.53032664	0.020541059	0.000648843	410.942597	12.8483721	0.056771094	0.002143024	430.7586751	86.52958055	15.14496414	0.16822301	1.060924968	100.4445292	95.46977151	18.41176246	-0.31218683	0.639540292	1.087458097
SM02zr_UPb_7	0.064410802	0.00072201	402.3636079	4.37248636	0.49952818	0.01663693	409.8965185	11.28157581	0.019854693	0.000619461	397.3471578	12.28064927	0.056112031	0.001825775	428.53696	73.01257851	15.56584332	0.175163494	1.173621105	143.4364607	121.340389	22.53125548	0.194341807	0.101354152	1.097300601
SM02zr_UPb_8	0.064195475	0.000900626	401.0381484	5.457241412	0.506246972	0.0212204	415.6584238	13.71361239	0.018927082	0.000750522	378.9052435	14.89787	0.056927542	0.00238751	453.0336823	93.04684159	15.60816538	0.210447598	1.123110235	94.07828507	82.78664089	14.69642911	0.117959608	0.301212332	1.360778627
SM02zr_UPb_9	0.065644868	0.000930565	409.8078653	5.635591708	0.491794416	0.021743322	403.4722853	14.76885826	0.020617546	0.00077182	412.4132369	15.27605756	0.054055621	0.002467372	322.5580466	108.7529863	15.30763661	0.233013546	1.264769087	68.07789167	54.25531781	10.37799215	0.189000253	0.115777283	1.375179008
SM02zr_UPb_9	0.065148632	0.000774636	406.8238646	4.693743032	0.500219632	0.020690409	409.4973171	13.85256492	0.020611144	0.000679488	412.3185631	13.44886439	0.055718233	0.002446966	367.502401	98.42708712	15.39980968	0.194872196	1.013985408	86.34350531	85.58499772	16.37004284	0.072902089	0.589025831	1.15375312
SM02zr_UPb_9	0.066545367	0.000802286	415.2689061	4.844618572	0.504569567	0.016945377	413.2101076	11.37274928	0.020746469	0.000627566	415.0155345	12.4202546	0.05478453	0.001899174	354.6678798	80.20324505	15.0470923	0.186340559	0.880455309	95.43196829	109.9383955	21.44820522	-0.01913482	0.490656101	1.166622037
SM02zr_UPb_9	0.06695574	0.001040364	417.7203525	6.278807479	0.599255761	0.042523408	478.3206944	28.03865466	0.02315694	0.001427838	462.3289348	28.05281868	0.066785906	0.005140683	672.6985415	137.869213	15.01471001	0.230567885	1.242203485	79.28570683	64.21901432	13.18141795	0.161904375	0.64265124	1.503112654
Z_91500																									
91500-1	0.179201145	0.002311678	1062.328986	12.66275384	1.850960216	0.044541322	1060.699262	15.77672361	0.05378993	0.001928788	1058.570803	36.9564791	0.074922787	0.001817086	1053.76201	46.86035827	5.589109552	0.070477629	2.667259906	79.71092815	29.88742411	14.95287151	0.278004141	0.343292369	1.191980451
91500-2	0.179084429	0.001744387	1061.824923	9.537255789	1.849382008	0.039120353	1060.170545	14.13186231	0.053630036	0.001859016	1055.562922	35.63650323	0.074882852	0.001571059	1056.907124	41.8326882	5.594969277	0.054732255	2.66706257	80.33476071	30.12077061	15.01802188	0.219471038	0.278555152	0.898194758
91500-3	0.179221077	0.001775742	1062.567006	9.702339602	1.849199699	0.038066377	1063.0499	14.14524099	0.053797971	0.001794178	1058.838666	34.38856157	0.074833198	0.0015495	1054.598077	43.82024278	5.590997453	0.055280516	2.665421182	80.26510165	30.1168029	15.07328521	0.202093229	0.265299732	0.91310379
91500-4	0.179156124	0.001630611	1062.240191	8.923044069	1.848393672	0.039614188	1060.421311	14.15219493	0.053718728	0.001784542	1057.328791	34.20551223	0.07482261	0.001720724	1045.259637	47.27844747	5.591075617	0.051814717	2.674101885	79.76224512	29.84182471	14.90934325	-0.02356302	0.382614066	0.840021319
91500-5	0.179161268	0.001474469	1062.296321	8.061288199	1.849791717	0.03957849	1063.04993	14.56347777	0.053839316	0.001706926	1059.704056	32.75480268	0.074908952	0.001657124	1049.321807	44.54061468	5.582741604	0.047900399	2.661565893	80.16706366	30.13084369	15.08565077	0.187184228	0.17334838	0.758854948
91500-6	0.179198299	0.00162355	1062.473547	8.871497275	1.851015867	0.043664588	1060.814725	15.79460768	0.053670924	0.001733445	1056.457229	33.24632821	0.07489988	0.001831664	1044.930278	50.90081447	5.589390863	0.050611327	2.664933873	80.19991356	30.10513052	15.02194708	0.108177323	0.288452751	0.834985238
91500-7	0.179082464	0.001606445	1061.843128	8.786874423	1.849171517	0.038677008	1063.021752	13.40706641	0.053788886	0.001808958	1058.659332	34.70670379	0.074902989	0.001649017	1048.621102	46.2606964	5.592882844	0.050623366	2.665547567	80.09321921	30.0442995	15.03623476	0.088129264	0.307056278	0.82751154
91500-8	0.179254282	0.001600263	1062.784978	8.739601205	1.850380146	0.041795324	1060.864952	15.11796104	0.053887398	0.001934245	1060.486595	37.05197667	0.074850611	0.001701922	1054.628853	44.41665138	5.587179437	0.049457638	2.667920966	79.81247036	29.90992839	14.93963269	0.218367393	0.19286549	0.822330141
91500-9	0.179154591	0.001515919	1062.250807	8.27705092	1.85017157	0.042990786	1060.601549	15.21980813	0.053695206	0.001737352	1056.908649	33.28689932	0.074920236	0.001805524	1046.070736	49.04370115	5.589458482	0.046679105	2.66584172	80.58753979	30.22607739	15.11985664	0.029813241	0.351756018	0.779199306
91500-10	0.179185111	0.001710844	1062.382189	9.349341575	1.849550648	0.053200701	1058.788081	19.1540195	0.053782655	0.001735584	1058.591443	33.2621746	0.074843522	0.002204573	1034.172087	60.81496169	5.582086418	0.049974495	2.667662313	78.97918593	29.60185301	14.82861007	0.14046361	0.226141813	0.88003561
	0.17912462	0.001702031	1062.051697	9.303539851	1.849829163	0.044136394	1062.592206	16.27423235	0.053676471	0.001842333	1056.462361	35.28614798	0.074905507	0.001860101	1045.260365	49.01168947	5.59315637	0.053261248	2.66677155	79.90965148	29.9690184	14.96639492	0.115089216	0.273557554	0.875996891
91500-12	0.179217161	0.001667684	1062.566305	9.094775882	1.84982518	0.042935384	1060.488856	15.29937829	0.053799877	0.001733449	1058.925334	33.21981397	0.074854194	0.001734577	1045.950237	47.05820373	5.589368886	0.050763358	2.666372895	80.18478388	30.06807089	15.05589412	0.210328254	0.178711373	0.855925493
91500-13	0.179127719	0.001550717	1062.097526	8.477687085	1.852152185	0.045149572	1060.940916	16.24331847	0.05367708	0.001682829	1056.60437	32.22528873	0.074979041	0.001870717	1045.806858	51.56364101	5.590867961	0.048527059	2.667411594	79.93721676	29.9731936	14.97840858	0.16061415	0.174691074	0.798202319
91500-14	0.179170858	0.001656534	1062.315998	9.058328871	1.845914244	0.040648834	1059.444417	14.36221632	0.053736618	0.001771995	1057.680611	33.96301094	0.074736402	0.001647963	1045.034832	43.81181516	5.59089604	0.052147145	2.66525303	80.16173884	30.06703054	15.0222614	0.336453835	0.071447823	0.852696268
91500-15	0.179206628	0.00142387	1062.551841	7.787397807	1.851445021	0.047483678	1060.363332	17.14593588	0.053794291	0.001687681	1058.851757	32.36673685	0.074927363	0.00199109	1059.530867	50.26315985	5.586730505	0.044758864	2.667392429	79.87844626	29.95248117	15.00541833	0.245609223	0.06491385	0.732895799
91500-16	0.17910122	0.00165326	1061.935141	9.01798491	1.850182625	0.043985043	1060.422286	15.8739618	0.053742615	0.001776643	1057.790495	34.06108889	0.074940475	0.001879034	1044.76982	51.90284759	5.592800706	0.050364767	2.666209904	80.06331415	30.02606146	15.00936495	0.356411421	0.031862045	0.849202985
91500-17	0.179204076	0.0016979	1062.487211	9.277206176	1.848689359	0.039760403	1060.48195	14.10779864	0.053716453	0.001779529	1057.283419	34.12397446	0.074801366	0.001600834	1046.990032	43.43525216	5.590537997	0.052812996	2.667182281	79.84119375	29.93366171	14.97307823	0.152208958	0.206660989	0.873159327
91500-18	0.179203331	0.001702224	1062.483457	9.300444953	1.850520735	0.045005795	1060.501838	15.84762325	0.053758864	0.001723011	1058.144848	32.98310796	0.074897814	0.001822716	1053.167563	49.96540209	5.590528793	0.052903742	2.66659688	80.09675641	30.04216491	15.01997396	0.178765779	0.166310319	0.875311977
																									#DIV/0!
Z_Plesovice																									#DIV/0!
PLE-1	0.054067595	0.000889245	339.3912012	5.435654353	0.407228397	0.009819754	346.2624572	6.956134688	0.017120121	0.000671533	343.043025	13.34317501	0.053886075	0.000910628	354.0018514	37.65844554	18.56583431	0.292055592	10.17164517	603.7361565	59.27985947	9.561949037	0.248844091	0.286626612	1.60158965
PLE-2	0.053752568	0.000663186	337.4906977	4.058885495	0.406574357	0.007669059	346.0315608	5.497878474	0.017191185	0.000655419	344.4622856	12.98106848	0.05451225	0.000901486	380.5404325	37.26878098	18.66872309	0.236743211	10.22201317	616.639828	60.17106532	9.696814411	0.126196811	0.248171688	1.266265888
PLE-3	0.053811135	0.000772857	337.8383779	4.727180256	0.399472925	0.008915323	340.7694545	6.39096954	0.017621217	0.001011681	352.8703374	19.82197901	0.053616122	0.001056065	340.8694353	40.22036214	18.67091114	0.271218494	10.17000919	625.1388758	61.27945248	10.23208819	0.067187955	0.199630899	1.399243119
PLE-4	0.05454303	0.000737005	342.3169173	4.50502372	0.401113951	0.008328201	342.0071881	5.994439408	0.017215166	0.000743299	344.907953	14.75069033	0.053348893	0.000980223	329.5887746	40.57403751	18.37823465	0.26011652	10.4224956	666.5409244	63.93454349	10.34023971	0.323702084	0.035518058	1.316038879
PLE-5	0.054355722	0.000842741	341.1610796	5.143625571	0.400380158	0.010294352	339.1795811	5.863925642	0.017812746	0.000856308	356.7424476	16.87270681	0.053216816	0.000936776	325.5389271	38.54487619	18.49324985	0.272222267	10.44094353	668.7732263	64.28946856	10.75489719	0.523526306	-0.20463513	1.507682405
PLE-6	0.054386262	0.000763318	341.355231	4.665402841	0.403125246	0.009804602	343.2957114	6.967337795	0.01742733	0.000659142	349.15293	13.08017981	0.053391657	0.001110833	327.8350595	45.50287216	18.47169661	0.259147146	10.45060432	660.1287517	63.03590874	10.16507837	0.452818709	0.120821139	1.366729558
PLE-7	0.054189753	0.000815976	340.1488065	4.990548088	0.400560214	0.009816745	341.4540469	6.973265689	0.017858584	0.000839461	357.6585763	16.53377055	0.05374808	0.001090764	344.7076277	43.14612465	18.50804469	0.272352536	10.22667587	669.3352211	65.98056935	11.10936413	0.362139263	-0.08689149	1.467166132
PLE-8	0.054442808	0.000731152	341.7048615	4.468298544	0.402652861	0.008698989	343.0791198	6.281975748	0.017141643	0.000614406	343.4894855	12.22442405	0.053735057	0.00097994	345.8848559	40.82540719	18.44370854	0.246755476	10.26041536	662.3502514	64.48048207	10.49791641	0.411793578	0.074785274	1.307648514
PLE-9	0.054081187	0.000886867	339.4751627	5.421864382	0.422418244	0.01127027	355.0344509	6.823014454	0.018787501	0.000672991	376.1600589	13.37206232	0.056567902	0.001292286	456.1345348	45.88348216	18.56610262	0.31731371	8.917764576	702.7606608	80.02104798	14.28467596	0.183636737	0.204994545	1.597131389
PLE-10	0.054454154	0.000720311	341.7753849	4.401284599	0.401483091	0.010492113	343.9866997	7.393656409	0.017504058	0.000761693	350.6428735	15.0449805	0.053699165	0.001083659	342.6916735	42.48401939	18.43676995	0.240735697	10.25082169	701.9259883	68.2292143	11.25531217	0.410429297	-0.10156369	1.28777109
PLE-11	0.054132595	0.000823639	339.7988456	5.036062221	0.402917253	0.009359117	343.2146421	6.718259779	0.017437957	0.000972076	349.2470803	19.076895	0.054022649	0.001108511	355.8501053	44.14382888	18.57166586	0.286213697	10.25416428	665.9252	64.16059496	10.52037821	0.627932896	-0.28275749	1.48207161
PLE-12	0.053647313	0.00083642	336.8284265	5.113639952	0.392931588	0.010083181	335.8619809	7.25614461	0.01714958	0.000973354	343.5129672	19.13932727	0.053102774	0.001115311	315.4918102	46.40410561	18.69246852	0.27281089	10.41545585	655.3277407	62.82004237	10.12253675	0.420621538	0.001288758	1.518173512
PLE-13	0.054034643	0.000833844	339.2012693	4.909604077	0.397159141	0.008817558	339.0854615	6.359777797	0.016695498	0.000620191	334.6182816	12.31755055	0.052950993	0.000938958	313.5755681	39.27256451	18.55893468	0.277849119	10.26621091	658.7479628	64.20368287	9.936956541	0.501820693	0.065332897	1.447401446

PLE-14	0.054855039	0.000865258	344.2095953	5.27905666	0.410547325	0.008871629	348.7706727	6.353787904	0.017313813	0.000610537	346.9131623	12.12324691	0.054044032	0.000855301	361.8809902	36.0970304	18.33127912	0.277087576	10.22035873	670.0465116	65.60486944	10.54158519	0.627958888	0.002280951	1.533675043
PLE-15	0.054701277	0.000828144	343.2738449	5.058175263	0.406014253	0.009118337	345.4686343	6.523303703	0.017073803	0.000716753	342.1077934	14.19605985	0.053749245	0.001055449	344.6176938	43.47491671	18.37834046	0.275462159	10.36017969	664.0104969	63.72188238	10.47496919	0.38243812	-0.1154651	1.473510242
PLE-16	0.054669199	0.000687004	343.0937003	4.196736483	0.400244111	0.008987949	341.3095039	6.451903776	0.016754533	0.000632801	335.7882056	12.59551873	0.053102499	0.000961375	319.3907026	40.46569293	18.35595014	0.228714638	10.41024059	647.8800722	62.18799157	9.841400392	0.598848799	-0.26103479	1.22320418
PLE-17	0.054444082	0.000802163	341.7051685	4.897385208	0.397701358	0.008724337	339.4847675	6.342917274	0.016921313	0.000578975	339.1203016	11.51025501	0.052669935	0.000984973	299.1061576	43.8487516	18.45646478	0.262921118	10.3524842	642.1788039	62.16023854	9.761612226	0.50667607	0.026063032	1.43321953
PLE-18	0.053978481	0.000876338	338.8488685	5.358568791	0.400501395	0.008862057	341.5029573	6.432035338	0.017188329	0.000686171	344.3951	13.64865522	0.053416985	0.000929209	333.2802061	40.13978743	18.55054979	0.303316198	10.40273694	655.9702408	62.99404261	10.2882048	0.588836917	-0.08961592	1.581403773
Z_Temora2																									
TEM-1	0.06832076	0.004109654	425.0214325	23.58010443	0.646948091	0.116229325	462.2794174	32.67240008	0.01997656	0.00188974	399.0748244	36.88715503	0.059711069	0.004391894	481.9515383	113.215498	15.27785831	0.354111668	1.819723018	265.9813173	148.1914612	26.0696233	0.521280565	-0.25200431	5.547980083
TEM-2	0.067363667	0.000678357	420.2254075	4.097496318	0.528331823	0.019935405	428.8265716	11.86466878	0.020840443	0.0007793	416.8241958	15.41319045	0.056970365	0.002443279	424.5746312	57.45082344	14.8550361	0.144294839	2.11965347	235.628972	114.8282392	22.19988608	0.169247618	-0.08445687	0.975071056
TEM-3	0.065622891	0.000709393	409.7004605	4.292511533	0.537462388	0.051955054	427.9101026	24.1417674	0.022876889	0.002974275	455.271942	56.14451817	0.058974527	0.005169713	413.1989549	89.80380352	15.27715774	0.168215631	3.621141337	102.4503218	28.42208162	6.288103525	0.950809252	-0.79132427	1.04771948
TEM-4	0.065778447	0.000624516	410.6496255	3.778552415	0.503668311	0.012711268	413.3181629	8.411097819	0.021911095	0.000852303	437.9936976	16.75228711	0.055666716	0.001556016	411.6502633	57.64689098	15.20988188	0.152857393	2.034914804	284.5657108	140.3536014	28.4952626	0.300391376	-0.15221463	0.920140231
TEM-5	0.066197118	0.000792646	413.1639398	4.782954062	0.533731901	0.042813958	419.3712874	13.78620201	0.019762638	0.000792336	395.4609654	15.63842953	0.058389628	0.00414552	416.5778525	87.13615208	15.15249461	0.17292605	1.647028113	138.5441866	84.23326999	16.18690091	0.85798512	-0.69361081	1.157640733
TEM-6	0.066375895	0.000487712	414.2727613	2.948986594	0.504853226	0.010758611	414.3580692	7.057761939	0.021489638	0.000720047	429.7008461	14.19704069	0.055176632	0.001286352	388.9568722	40.32533147	15.08002769	0.111911339	2.98833076	377.064682	126.0933198	25.157028	-0.14754515	0.291437273	0.711846607
TEM-7	0.066420699	0.000671023	414.5291157	4.053962733	0.53649945	0.018766485	434.3787532	11.8204543	0.021357541	0.000867605	427.0322052	17.04310164	0.058905746	0.002194606	518.8111491	74.13890413	15.08694549	0.151725481	1.796129417	173.1288904	96.88291306	19.56827108	0.801337883	-0.6043186	0.977968152
TEM-9	0.06642037	0.000699117	414.5244789	4.221495656	0.518456531	0.0350187	418.8774119	19.82089771	0.021791996	0.001533144	435.2642381	29.71107035	0.056634686	0.003503886	371.985318	111.9027713	15.08955225	0.154813729	2.644828756	109.2212953	40.84769703	8.438516667	0.876278393	-0.72455273	1.01839478
TEM-10	0.065901264	0.000655382	411.3894948	3.962241557	0.499242701	0.011691135	410.4431598	7.785363795	0.020582725	0.000615498	411.775446	12.16510622	0.055205841	0.001185568	402.5638179	46.68195631	15.17802462	0.140087955	1.399334454	438.3430508	326.9150205	62.58051547	0.086890975	0.047421752	0.963136299
TEM-11	0.066443393	0.000486937	414.6808555	2.942756602	0.50047642	0.014676185	408.345564	8.218981591	0.0207065	0.000652185	414.215921	12.91337739	0.054430742	0.001280168	366.0798092	53.3736118	15.06440601	0.109929685	3.139979578	253.5098645	80.97682595	15.86812687	0.283238641	-0.05581836	0.709643709
TEM-12	0.065625988	0.00066018	409.72369	3.992929137	0.540333916	0.041472481	432.4190044	20.58778096	0.021165237	0.001976364	422.4999634	37.69552716	0.059639187	0.00414431	472.4797228	81.03187617	15.27020559	0.153749684	2.103461046	123.3246579	58.89503687	11.57395265	0.940657402	-0.80339573	0.974541925
TEM-13	0.066239653	0.00061986	413.4386914	3.748950101	0.50250638	0.014374357	412.2506725	9.625884441	0.020409671	0.000665653	408.330893	13.18233434	0.054928528	0.001581906	376.8793486	63.57209021	15.10424628	0.149673334	2.046232507	165.9842875	80.98672825	15.43231066	0.236948866	-0.1015889	0.906772922
TEM-14	0.319191904	0.055341922	1589.488533	84.33114904	28.63804593	4.262540065	3300.042293	55.03914243	0.128432648	0.017326798	2393.450749	272.1733835	0.654173398	0.033540944	4594.405258	49.79549177	3.693832042	0.1911717	0.245155702	3.95638493	28.62542987	19.56863237	-0.59098661	0.576893669	5.305552529
TEM-15	0.064770513	0.000716258	404.5408398	4.334027918	0.534814003	0.048632231	417.9124145	15.11430142	0.020904256	0.001552633	417.6703657	29.89846719	0.059504532	0.004785132	444.6399657	88.2253878	15.47968742	0.170011389	2.016772231	130.4148991	65.49592348	12.45348891	0.511865303	-0.38241731	1.071344965
TEM-16	0.066085201	0.000753027	412.4915305	4.549664546	0.517842344	0.018776722	421.7925094	12.35287326	0.021793949	0.001044468	435.5843773	20.53423852	0.056706578	0.002156001	425.4410046	83.02004298	15.17461021	0.170078581	3.023363404	91.21666294	30.14664953	6.166109998	0.578269871	-0.42688625	1.102971627
TEM-17	0.06620047	0.000596047	413.2042504	3.603635008	0.501000125	0.016178065	411.038606	10.36394611	0.020844333	0.000730469	416.921358	14.39414853	0.05469915	0.001960991	360.0490725	68.55175499	15.12969336	0.136912148	1.842955047	229.4052974	124.3181436	24.01692025	-0.56865723	0.751543463	0.87211954
TEM-18	0.067349365	0.000658811	420.1408958	3.980115518	0.516134129	0.010446831	421.9610309	6.963885462	0.020352915	0.000585897	407.2303122	11.60373418	0.055121724	0.001080199	400.8457324	44.50475084	14.87832243	0.149063038	2.065530783	354.4060381	172.3997063	32.65094388	0.500276588	0.155675679	0.947328755

Mass Spectrometer Files

File	File start time	File end time	Time file loaded	No of data points	No of channels	Channels	Samples
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:40:19.000	2023-08-10 09:41:19.976	2023-08-11 15:22:38.606	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:15:05.000	2023-08-10 10:16:05.979	2023-08-11 15:22:55.432	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-4
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:51:59.000	2023-08-10 11:52:59.979	2023-08-11 15:22:40.206	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-11
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:18:30.000	2023-08-10 13:19:30.979	2023-08-11 15:22:45.978	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-17
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:53:06.000	2023-08-10 11:54:06.979	2023-08-11 15:22:40.253	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-10
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:54:11.000	2023-08-10 11:55:11.979	2023-08-11 15:22:40.284	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-11
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:28:00.000	2023-08-10 11:29:00.979	2023-08-11 15:22:38.676	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_50.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:55:17.000	2023-08-10 11:56:17.980	2023-08-11 15:22:40.315	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_59.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:56:22.000	2023-08-10 11:57:22.980	2023-08-11 15:22:40.456	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_60.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:57:26.000	2023-08-10 11:58:26.980	2023-08-11 15:22:40.502	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_60.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:58:31.000	2023-08-10 11:59:31.979	2023-08-11 15:22:40.549	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_61.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:59:37.000	2023-08-10 12:00:37.979	2023-08-11 15:22:40.596	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_61.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:16:11.000	2023-08-10 10:17:11.979	2023-08-11 15:22:55.634	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-5
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:53:28.000	2023-08-10 09:54:28.977	2023-08-11 15:22:40.643	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_01.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:00:43.000	2023-08-10 12:01:43.980	2023-08-11 15:22:40.768	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_62.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:35:38.000	2023-08-10 11:36:38.980	2023-08-11 15:22:39.150	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_53.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:19:35.000	2023-08-10 13:20:35.980	2023-08-11 15:22:46.150	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-16
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:01:49.000	2023-08-10 12:02:49.980	2023-08-11 15:22:40.814	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_62.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:02:54.000	2023-08-10 12:03:54.980	2023-08-11 15:22:40.830	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_64.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:04:00.000	2023-08-10 12:05:00.979	2023-08-11 15:22:40.861	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_64.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:29:06.000	2023-08-10 11:30:06.980	2023-08-11 15:22:38.710	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_51.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:05:05.000	2023-08-10 12:06:05.980	2023-08-11 15:22:40.892	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_66.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:06:11.000	2023-08-10 12:07:11.980	2023-08-11 15:22:41.033	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_66.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:17:15.000	2023-08-10 10:18:15.686	2023-08-11 15:22:55.712	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-4
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:07:17.000	2023-08-10 12:08:17.979	2023-08-11 15:22:41.080	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_66.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:08:21.000	2023-08-10 12:09:22.273	2023-08-11 15:22:41.126	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_67.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:09:27.000	2023-08-10 12:10:27.979	2023-08-11 15:22:41.173	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_67.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:10:31.000	2023-08-10 12:11:31.980	2023-08-11 15:22:41.220	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_68.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:20:42.000	2023-08-10 13:21:42.980	2023-08-11 15:22:46.228	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-17
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:54:32.000	2023-08-10 09:55:32.977	2023-08-11 15:22:41.376	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_03.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:11:36.000	2023-08-10 12:12:36.980	2023-08-11 15:22:41.423	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_70.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:12:42.000	2023-08-10 12:13:42.980	2023-08-11 15:22:41.485	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_73.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:13:46.000	2023-08-10 12:14:46.980	2023-08-11 15:22:41.516	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-12
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:30:12.000	2023-08-10 11:31:12.980	2023-08-11 15:22:38.758	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_51.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:13:00.000	2023-08-10 13:14:00.980	2023-08-11 15:22:45.494	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_30.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:14:51.000	2023-08-10 12:15:51.980	2023-08-11 15:22:41.563	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-13
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:15:56.000	2023-08-10 12:16:56.980	2023-08-11 15:22:41.719	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-12
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:17:01.000	2023-08-10 12:18:01.980	2023-08-11 15:22:41.782	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-13
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:18:07.000	2023-08-10 12:19:07.980	2023-08-11 15:22:41.828	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-12
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:19:12.000	2023-08-10 12:20:12.686	2023-08-11 15:22:41.891	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-13
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:21:47.000	2023-08-10 13:22:47.979	2023-08-11 15:22:46.274	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-16
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:20:17.000	2023-08-10 12:21:17.980	2023-08-11 15:22:41.938	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-12
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:21:23.000	2023-08-10 12:22:23.979	2023-08-11 15:22:42.047	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-13
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:55:37.000	2023-08-10 09:56:37.977	2023-08-11 15:22:42.094	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_03.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:22:30.000	2023-08-10 12:23:30.980	2023-08-11 15:22:42.109	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_01.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:18:21.000	2023-08-10 10:19:21.979	2023-08-11 15:22:55.775	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-5
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:23:35.000	2023-08-10 12:24:35.980	2023-08-11 15:22:42.156	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_02.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:31:18.000	2023-08-10 11:32:19.272	2023-08-11 15:22:39.002	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_52.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:24:41.000	2023-08-10 12:25:41.980	2023-08-11 15:22:42.203	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_02.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:25:46.000	2023-08-10 12:26:46.980	2023-08-11 15:22:42.343	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_03.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:26:51.000	2023-08-10 12:27:52.272	2023-08-11 15:22:42.406	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_04.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:27:56.000	2023-08-10 12:28:56.979	2023-08-11 15:22:42.452	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_04.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:22:54.000	2023-08-10 13:23:54.980	2023-08-11 15:22:46.337	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-17
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:29:02.000	2023-08-10 12:30:02.980	2023-08-11 15:22:42.515	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_05.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:30:08.000	2023-08-10 12:31:08.979	2023-08-11 15:22:42.562	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_07.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:31:13.000	2023-08-10 12:32:13.687	2023-08-11 15:22:42.733	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_07.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:19:26.000	2023-08-10 10:20:26.979	2023-08-11 15:22:55.853	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-4
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:32:17.000	2023-08-10 12:33:17.980	2023-08-11 15:22:42.764	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_08.1

C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:56:42.000	2023-08-10 09:57:42.978	2023-08-11 15:22:42.811	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_04.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:33:23.000	2023-08-10 12:34:23.979	2023-08-11 15:22:42.858	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_08.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:32:22.000	2023-08-10 11:33:22.979	2023-08-11 15:22:39.050	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_52.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:34:29.000	2023-08-10 12:35:29.980	2023-08-11 15:22:42.889	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_08.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:35:36.000	2023-08-10 12:36:36.979	2023-08-11 15:22:43.045	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_09.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:36:42.000	2023-08-10 12:37:42.979	2023-08-11 15:22:43.108	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_10.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:37:49.000	2023-08-10 11:38:49.979	2023-08-11 15:22:39.286	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_54.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:37:48.000	2023-08-10 12:38:48.980	2023-08-11 15:22:43.139	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_10.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:38:55.000	2023-08-10 12:39:55.980	2023-08-11 15:22:43.170	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_11.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:50:14.000	2023-08-10 09:51:14.976	2023-08-11 15:22:38.644	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:40:01.000	2023-08-10 12:41:01.980	2023-08-11 15:22:43.201	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_12.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:41:07.000	2023-08-10 12:42:07.979	2023-08-11 15:22:43.326	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_12.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:42:12.000	2023-08-10 12:43:12.979	2023-08-11 15:22:43.388	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_13.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:43:17.000	2023-08-10 12:44:17.980	2023-08-11 15:22:43.451	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_15.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:57:47.000	2023-08-10 09:58:47.978	2023-08-11 15:22:43.513	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_04.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:33:27.000	2023-08-10 11:34:27.980	2023-08-11 15:22:39.085	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_53.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:44:23.000	2023-08-10 12:45:23.980	2023-08-11 15:22:43.544	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-14
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:45:29.000	2023-08-10 12:46:29.980	2023-08-11 15:22:43.669	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-15
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:23:59.000	2023-08-10 13:24:59.979	2023-08-11 15:22:46.384	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_33.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:46:35.000	2023-08-10 12:47:35.980	2023-08-11 15:22:43.716	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-14
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:45:26.000	2023-08-10 11:46:26.979	2023-08-11 15:22:39.691	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_58.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:47:41.000	2023-08-10 12:48:41.980	2023-08-11 15:22:43.763	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-15
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:48:46.000	2023-08-10 12:49:46.979	2023-08-11 15:22:43.794	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-14
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:49:52.000	2023-08-10 12:50:52.980	2023-08-11 15:22:43.841	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-15
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:50:58.000	2023-08-10 12:51:58.980	2023-08-11 15:22:43.966	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-14
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:52:04.000	2023-08-10 12:53:04.980	2023-08-11 15:22:44.012	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-15
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:53:10.000	2023-08-10 12:54:11.273	2023-08-11 15:22:44.059	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_15.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:54:15.000	2023-08-10 12:55:15.980	2023-08-11 15:22:44.106	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_16.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:34:32.000	2023-08-10 11:35:32.979	2023-08-11 15:22:39.120	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_53.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:58:52.000	2023-08-10 09:59:52.978	2023-08-11 15:22:44.137	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_04.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:25:05.000	2023-08-10 13:26:05.980	2023-08-11 15:22:46.524	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_34.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:20:31.000	2023-08-10 10:21:31.979	2023-08-11 15:22:55.915	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-5
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:55:21.000	2023-08-10 12:56:22.273	2023-08-11 15:22:44.293	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_17.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:56:28.000	2023-08-10 12:57:28.980	2023-08-11 15:22:44.340	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_18.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:57:33.000	2023-08-10 12:58:33.980	2023-08-11 15:22:44.387	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_18.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:58:39.000	2023-08-10 12:59:39.980	2023-08-11 15:22:44.449	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_19.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 12:59:46.000	2023-08-10 13:00:46.979	2023-08-11 15:22:44.480	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_20.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:00:51.000	2023-08-10 13:01:51.979	2023-08-11 15:22:44.636	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_23.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:01:58.000	2023-08-10 13:02:58.980	2023-08-11 15:22:44.683	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_24.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:03:03.000	2023-08-10 13:04:03.979	2023-08-11 15:22:44.730	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_24.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:04:10.000	2023-08-10 13:05:10.979	2023-08-11 15:22:44.792	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_24.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:26:11.000	2023-08-10 13:27:11.980	2023-08-11 15:22:46.571	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_35.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:21:37.000	2023-08-10 10:22:37.979	2023-08-11 15:22:56.102	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-4
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:27:17.000	2023-08-10 13:28:17.980	2023-08-11 15:22:46.602	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_36.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:02:07.000	2023-08-10 10:03:07.978	2023-08-11 15:22:46.633	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_08.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:05:17.000	2023-08-10 13:06:18.273	2023-08-11 15:22:44.839	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_25.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:28:22.000	2023-08-10 13:29:22.979	2023-08-11 15:22:46.664	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_37.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:29:28.000	2023-08-10 13:30:28.979	2023-08-11 15:22:46.789	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_37.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:30:35.000	2023-08-10 13:31:35.980	2023-08-11 15:22:46.852	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_38.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:31:41.000	2023-08-10 13:32:41.979	2023-08-11 15:22:46.898	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_38.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:32:46.000	2023-08-10 13:33:46.979	2023-08-11 15:22:46.945	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_39.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:51:19.000	2023-08-10 09:52:19.976	2023-08-11 15:22:39.332	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:33:52.000	2023-08-10 13:34:52.979	2023-08-11 15:22:47.008	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_39.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:11:54.000	2023-08-10 13:12:54.980	2023-08-11 15:22:45.448	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_30.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:43:44.000	2023-08-10 09:44:44.975	2023-08-11 15:22:56.165	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:34:58.000	2023-08-10 13:35:58.979	2023-08-11 15:22:47.179	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_40.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:36:04.000	2023-08-10 13:37:04.687	2023-08-11 15:22:47.242	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_40.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:37:10.000	2023-08-10 13:38:10.980	2023-08-11 15:22:47.288	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_42.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:59:57.000	2023-08-10 10:00:57.978	2023-08-11 15:22:44.995	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_06.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:38:16.000	2023-08-10 13:39:16.980	2023-08-11 15:22:47.335	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_44.1

C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:03:12.000	2023-08-10 10:04:12.979	2023-08-11 15:22:47.366	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_09.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:39:23.000	2023-08-10 13:40:23.980	2023-08-11 15:22:47.554	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_44.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:40:29.000	2023-08-10 13:41:29.980	2023-08-11 15:22:47.585	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_45.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:41:35.000	2023-08-10 13:42:35.980	2023-08-11 15:22:47.647	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_45.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:42:42.000	2023-08-10 13:43:42.980	2023-08-11 15:22:47.694	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_46.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:22:41.000	2023-08-10 10:23:41.979	2023-08-11 15:22:56.274	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-5
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:38:55.000	2023-08-10 11:39:55.980	2023-08-11 15:22:39.364	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_55.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:43:48.000	2023-08-10 13:44:48.979	2023-08-11 15:22:47.756	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_47.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:44:55.000	2023-08-10 13:45:55.980	2023-08-11 15:22:47.897	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_47.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:46:01.000	2023-08-10 13:47:01.980	2023-08-11 15:22:47.959	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-18
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:06:23.000	2023-08-10 13:07:23.980	2023-08-11 15:22:45.058	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_26.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:47:07.000	2023-08-10 13:48:07.980	2023-08-11 15:22:48.037	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-19
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:48:13.000	2023-08-10 13:49:13.980	2023-08-11 15:22:48.084	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-18
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:49:19.000	2023-08-10 13:50:19.979	2023-08-11 15:22:48.115	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-19
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:04:17.000	2023-08-10 10:05:17.979	2023-08-11 15:22:48.256	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_10.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:50:25.000	2023-08-10 13:51:25.687	2023-08-11 15:22:48.318	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-18
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:23:47.000	2023-08-10 10:24:47.687	2023-08-11 15:22:56.336	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_20.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:51:30.000	2023-08-10 13:52:30.980	2023-08-11 15:22:48.380	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-19
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:52:37.000	2023-08-10 13:53:37.980	2023-08-11 15:22:48.458	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-18
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:39:59.000	2023-08-10 11:40:59.979	2023-08-11 15:22:39.395	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_56.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:53:43.000	2023-08-10 13:54:43.979	2023-08-11 15:22:48.505	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-19
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:54:49.000	2023-08-10 13:55:49.980	2023-08-11 15:22:48.677	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_47.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:07:29.000	2023-08-10 13:08:29.980	2023-08-11 15:22:45.104	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_26.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:55:55.000	2023-08-10 13:56:55.980	2023-08-11 15:22:48.755	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_48.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:57:01.000	2023-08-10 13:58:01.980	2023-08-11 15:22:48.817	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_49.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:58:07.000	2023-08-10 13:59:07.980	2023-08-11 15:22:48.864	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_50.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:59:13.000	2023-08-10 14:00:13.980	2023-08-11 15:22:48.926	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_51.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:24:53.000	2023-08-10 10:25:53.979	2023-08-11 15:22:56.399	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_20.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:00:19.000	2023-08-10 14:01:19.979	2023-08-11 15:22:49.082	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_52.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:05:21.000	2023-08-10 10:06:21.978	2023-08-11 15:22:49.160	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_13.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:01:25.000	2023-08-10 14:02:25.980	2023-08-11 15:22:49.223	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_56.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:02:31.000	2023-08-10 14:03:31.980	2023-08-11 15:22:49.301	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_57.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:41:04.000	2023-08-10 11:42:04.979	2023-08-11 15:22:39.535	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_57.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:03:37.000	2023-08-10 14:04:37.979	2023-08-11 15:22:49.363	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_57.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:08:36.000	2023-08-10 13:09:36.980	2023-08-11 15:22:45.151	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_27.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:04:42.000	2023-08-10 14:05:42.979	2023-08-11 15:22:49.519	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_57.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:05:48.000	2023-08-10 14:06:48.979	2023-08-11 15:22:49.582	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_58.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:06:55.000	2023-08-10 14:07:55.980	2023-08-11 15:22:49.660	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_59.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:14:06.000	2023-08-10 13:15:06.980	2023-08-11 15:22:45.541	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_33.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:08:00.000	2023-08-10 14:09:00.980	2023-08-11 15:22:49.722	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_59.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:09:06.000	2023-08-10 14:10:06.980	2023-08-11 15:22:49.784	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_59.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:10:13.000	2023-08-10 14:11:13.980	2023-08-11 15:22:49.987	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_60.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:11:20.000	2023-08-10 14:12:20.980	2023-08-11 15:22:50.050	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_60.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:06:26.000	2023-08-10 10:07:26.979	2023-08-11 15:22:50.112	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_13.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:12:25.000	2023-08-10 14:13:25.980	2023-08-11 15:22:50.174	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_62.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:42:09.000	2023-08-10 11:43:09.979	2023-08-11 15:22:39.582	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_57.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:09:42.000	2023-08-10 13:10:42.979	2023-08-11 15:22:45.214	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_27.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:13:30.000	2023-08-10 14:14:30.980	2023-08-11 15:22:50.221	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_63.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:14:36.000	2023-08-10 14:15:36.979	2023-08-11 15:22:53.419	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_64.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:25:59.000	2023-08-10 10:26:59.686	2023-08-11 15:22:56.570	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_23.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:15:42.000	2023-08-10 14:16:42.980	2023-08-11 15:22:53.497	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_65.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:16:48.000	2023-08-10 14:17:48.980	2023-08-11 15:22:53.544	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_66.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:17:55.000	2023-08-10 14:18:55.979	2023-08-11 15:22:53.606	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_66.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:19:01.000	2023-08-10 14:20:01.980	2023-08-11 15:22:53.653	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-20
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:20:06.000	2023-08-10 14:21:06.979	2023-08-11 15:22:53.809	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-21
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:21:12.000	2023-08-10 14:22:12.979	2023-08-11 15:22:53.887	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-22
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:22:19.000	2023-08-10 14:23:19.981	2023-08-11 15:22:53.950	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-20
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:07:31.000	2023-08-10 10:08:31.979	2023-08-11 15:22:53.996	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_13.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:10:48.000	2023-08-10 13:11:48.980	2023-08-11 15:22:45.385	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR05_UPb_28.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:43:14.000	2023-08-10 11:44:15.273	2023-08-11 15:22:39.613	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_57.3

C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:27:04.000	2023-08-10 10:28:04.979	2023-08-11 15:22:56.648	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_24.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:23:24.000	2023-08-10 14:24:24.981	2023-08-11 15:22:54.059	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-21
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:24:30.000	2023-08-10 14:25:30.979	2023-08-11 15:22:54.230	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-22
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:25:36.000	2023-08-10 14:26:36.980	2023-08-11 15:22:54.308	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-20
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:26:43.000	2023-08-10 14:27:43.980	2023-08-11 15:22:54.371	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-21
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:27:49.000	2023-08-10 14:28:49.979	2023-08-11 15:22:54.449	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-22
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:28:55.000	2023-08-10 14:29:55.979	2023-08-11 15:22:54.511	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-20
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:30:01.000	2023-08-10 14:31:01.980	2023-08-11 15:22:54.714	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-21
C:/Users/Supervisor/Documents/Chloe	2023-08-10 14:31:07.000	2023-08-10 14:32:07.979	2023-08-11 15:22:54.792	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-22
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:08:36.000	2023-08-10 10:09:36.978	2023-08-11 15:22:54.854	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_14.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:28:10.000	2023-08-10 10:29:10.979	2023-08-11 15:22:56.711	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_24.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:29:15.000	2023-08-10 10:30:15.979	2023-08-11 15:22:56.773	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_24.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:46:32.000	2023-08-10 11:47:32.980	2023-08-11 15:22:39.832	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-10
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:09:41.000	2023-08-10 10:10:41.979	2023-08-11 15:22:54.932	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_14.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:30:21.000	2023-08-10 10:31:21.980	2023-08-11 15:22:56.851	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_26.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:31:26.000	2023-08-10 10:32:27.272	2023-08-11 15:22:57.054	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_27.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:32:32.000	2023-08-10 10:33:32.979	2023-08-11 15:22:57.116	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_28.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:44:49.000	2023-08-10 09:45:49.975	2023-08-11 15:22:57.194	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:33:37.000	2023-08-10 10:34:37.980	2023-08-11 15:22:57.272	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_29.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:36:44.000	2023-08-10 11:37:44.979	2023-08-11 15:22:39.254	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_54.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:34:42.000	2023-08-10 10:35:42.979	2023-08-11 15:22:57.350	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_29.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:35:47.000	2023-08-10 10:36:47.979	2023-08-11 15:22:57.553	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_33.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:36:51.000	2023-08-10 10:37:51.979	2023-08-11 15:22:57.616	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_33.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:37:57.000	2023-08-10 10:38:57.979	2023-08-11 15:22:57.694	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_33.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:44:20.000	2023-08-10 11:45:20.687	2023-08-11 15:22:39.644	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_58.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:39:03.000	2023-08-10 10:40:03.979	2023-08-11 15:22:57.740	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_34.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:47:37.000	2023-08-10 11:48:37.980	2023-08-11 15:22:39.878	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-11
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:40:08.000	2023-08-10 10:41:08.980	2023-08-11 15:22:57.787	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_34.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:41:12.000	2023-08-10 10:42:12.687	2023-08-11 15:22:57.959	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_35.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:42:18.000	2023-08-10 10:43:18.979	2023-08-11 15:22:58.037	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_35.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:43:23.000	2023-08-10 10:44:23.979	2023-08-11 15:22:58.099	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_38.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:15:11.000	2023-08-10 13:16:11.979	2023-08-11 15:22:45.588	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-16
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:45:54.000	2023-08-10 09:46:54.976	2023-08-11 15:22:58.193	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:44:29.000	2023-08-10 10:45:29.979	2023-08-11 15:22:58.255	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_39.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:45:34.000	2023-08-10 10:46:34.979	2023-08-11 15:23:01.048	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-6
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:10:46.000	2023-08-10 10:11:46.979	2023-08-11 15:22:54.979	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_16.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:46:39.000	2023-08-10 10:47:39.979	2023-08-11 15:23:01.110	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-7
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:47:46.000	2023-08-10 10:48:47.273	2023-08-11 15:23:01.204	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-6
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:48:52.000	2023-08-10 10:49:52.980	2023-08-11 15:23:01.266	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-7
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:48:42.000	2023-08-10 11:49:42.979	2023-08-11 15:22:39.925	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-10
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:49:57.000	2023-08-10 10:50:57.979	2023-08-11 15:23:01.313	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-6
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:51:02.000	2023-08-10 10:52:02.979	2023-08-11 15:23:01.531	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-7
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:52:08.000	2023-08-10 10:53:08.979	2023-08-11 15:23:01.578	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-6
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:16:17.000	2023-08-10 13:17:17.980	2023-08-11 15:22:45.744	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-17
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:53:13.000	2023-08-10 10:54:13.979	2023-08-11 15:23:01.625	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-7
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:54:18.000	2023-08-10 10:55:18.979	2023-08-11 15:23:01.672	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_39.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:42:38.000	2023-08-10 09:43:38.682	2023-08-11 15:22:55.151	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:46:59.000	2023-08-10 09:47:59.976	2023-08-11 15:23:01.718	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:55:24.000	2023-08-10 10:56:24.979	2023-08-11 15:23:01.859	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_40.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:56:28.000	2023-08-10 10:57:28.979	2023-08-11 15:23:01.906	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_40.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:57:33.000	2023-08-10 10:58:33.980	2023-08-11 15:23:01.968	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_40.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:58:38.000	2023-08-10 10:59:38.980	2023-08-11 15:23:02.046	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_41.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:52:23.000	2023-08-10 09:53:23.977	2023-08-11 15:22:39.972	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:59:43.000	2023-08-10 11:00:43.980	2023-08-11 15:23:02.108	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_41.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:00:49.000	2023-08-10 11:01:49.979	2023-08-11 15:23:02.296	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_42.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:41:33.000	2023-08-10 09:42:33.974	2023-08-11 15:22:45.806	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:01:53.000	2023-08-10 11:02:53.979	2023-08-11 15:23:02.358	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_42.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:11:51.000	2023-08-10 10:12:51.978	2023-08-11 15:22:55.229	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_17.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:02:58.000	2023-08-10 11:03:58.979	2023-08-11 15:23:02.405	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_43.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:04:04.000	2023-08-10 11:05:04.979	2023-08-11 15:23:02.452	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_43.2

C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:05:09.000	2023-08-10 11:06:09.979	2023-08-11 15:23:02.498	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_44.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:48:03.000	2023-08-10 09:49:03.977	2023-08-11 15:23:02.654	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:06:15.000	2023-08-10 11:07:15.980	2023-08-11 15:23:02.732	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_45.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:07:20.000	2023-08-10 11:08:20.979	2023-08-11 15:23:02.779	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_45.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:08:26.000	2023-08-10 11:09:26.979	2023-08-11 15:23:02.826	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_45.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:49:47.000	2023-08-10 11:50:47.979	2023-08-11 15:22:40.003	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-11
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:09:31.000	2023-08-10 11:10:31.979	2023-08-11 15:23:02.888	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_46.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:01:02.000	2023-08-10 10:02:02.979	2023-08-11 15:22:45.869	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_08.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:12:55.000	2023-08-10 10:13:55.979	2023-08-11 15:22:55.291	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_19.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:10:36.000	2023-08-10 11:11:36.980	2023-08-11 15:23:03.076	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_46.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:11:42.000	2023-08-10 11:12:42.980	2023-08-11 15:23:03.154	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_46.3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:12:47.000	2023-08-10 11:13:47.980	2023-08-11 15:23:03.232	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_47.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:13:52.000	2023-08-10 11:14:52.979	2023-08-11 15:23:03.294	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_47.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:14:57.000	2023-08-10 11:15:57.979	2023-08-11 15:23:03.372	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_48.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:16:03.000	2023-08-10 11:17:03.980	2023-08-11 15:23:03.606	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-8
C:/Users/Supervisor/Documents/Chloe	2023-08-10 09:49:08.000	2023-08-10 09:50:08.977	2023-08-11 15:23:03.653	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-3
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:17:09.000	2023-08-10 11:18:09.980	2023-08-11 15:23:03.731	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-9
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:18:13.000	2023-08-10 11:19:13.979	2023-08-11 15:23:03.778	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-8
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:50:53.000	2023-08-10 11:51:53.979	2023-08-11 15:22:40.159	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-10
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:14:00.000	2023-08-10 10:15:00.979	2023-08-11 15:22:55.354	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_19.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 13:17:22.000	2023-08-10 13:18:22.980	2023-08-11 15:22:45.931	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-16
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:19:18.000	2023-08-10 11:20:18.979	2023-08-11 15:23:03.871	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-9
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:20:23.000	2023-08-10 11:21:23.980	2023-08-11 15:23:04.090	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-8
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:21:28.000	2023-08-10 11:22:28.980	2023-08-11 15:23:04.168	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-9
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:22:33.000	2023-08-10 11:23:33.979	2023-08-11 15:23:04.246	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-8
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:23:38.000	2023-08-10 11:24:38.980	2023-08-11 15:23:04.324	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-9
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:24:43.000	2023-08-10 11:25:43.980	2023-08-11 15:23:04.417	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_49.1
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:25:49.000	2023-08-10 11:26:49.979	2023-08-11 15:23:04.636	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_49.2
C:/Users/Supervisor/Documents/Chloe	2023-08-10 11:26:55.000	2023-08-10 11:27:55.980	2023-08-11 15:23:04.714	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH01_UPb_50.1

Laser Log Files

File	File start time	File end time	Time file loaded	Samples	Offset (s)	Widths
C:/Users/Supervisor/Documents/Chloe	2023-08-10 10:40:25.027	2023-08-10 15:32:15.421	2023-08-11 15:27:50.228	NIST610-1,CR05_UPb_30.1,CH01_UPb_	-3600.7	30

	Final Pb206/U	Final Pb206/U	Final Pb206/U	Final Pb206/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb208/T	Final Pb208/T	Final Pb208/T	Final Pb208/T	Final Pb207/P	Final Pb207/P	Final Pb207/P	Final Pb207/P	Final U238/Pb	Final U238/Pb	Final U/Th_m	Approx_U_PP	Approx_Th_PP	Approx_Pb_PPM_mean	rho 207Pb/20	rho 206Pb/238U v 207Pb/235U
CH01																								
CH01_UPb_01	0.065664979	0.00103081	409.9721417	6.234090107	0.498848872	0.019719037	410.0547852	13.23973707	0.020221558	0.000359589	404.6399008	7.124595036	0.055131951	0.001892904	436.9362318	77.64636651	15.24533956	0.238096871	0.537467394	455.8679841	885.8057165	153.3674372	0.155170843	0.228317016
CH01_UPb_03	0.064452006	0.000957099	402.6246244	5.794934302	0.490819381	0.011372082	404.8910475	7.763901435	0.020300252	0.000390477	406.1896826	7.735688615	0.055296295	0.001496085	411.699818	59.32281105	15.54051941	0.230026082	0.829636859	281.0526501	348.5106969	63.96503165	0.411398333	-0.06533097
CH01_UPb_03	0.065380231	0.001171734	408.2326572	7.085714924	0.499384193	0.020154883	410.040988	13.70291549	0.019825669	0.000433856	396.7852426	8.597932936	0.055629356	0.002357823	397.6487999	98.00383764	15.33259058	0.270915577	1.193820988	187.2281051	163.7900407	28.95830954	0.291611013	0.031955784
CH01_UPb_04	0.064955981	0.001048623	405.6608431	6.345395533	0.478934173	0.013875466	396.2919995	9.600859927	0.020329414	0.00045975	406.7513483	9.109226809	0.053772717	0.001681695	333.3446477	76.5857279	15.43893932	0.247746501	1.089749923	183.3211561	197.6187144	35.75668948	0.352980083	0.02848301
CH01_UPb_04	0.063900382	0.001316205	399.2747569	7.96772026	0.498350927	0.024880199	409.4447207	16.70879566	0.019968122	0.00056965	399.6034309	11.28666893	0.056553163	0.002578172	447.5679918	99.34455167	15.68553408	0.315595835	0.848320247	222.5399666	275.7053826	54.20104193	-0.080853	0.416976916
CH01_UPb_04	0.062121722	0.001984677	388.4891276	12.04830601	0.507474193	0.053167676	415.0070273	35.90176511	0.020392867	0.001231275	408.0003035	24.40345337	0.059210526	0.005278466	540.7319313	197.4399495	16.13697135	0.52052665	1.035722204	182.4985505	185.7451192	37.92828096	-0.46358627	0.648624389
CH01_UPb_06	0.064535973	0.000972547	403.1294326	5.888088421	0.477740156	0.016860385	395.0979195	11.60273297	0.020278474	0.000422022	405.7513868	8.360940139	0.053751253	0.001935281	312.3477521	86.77828716	15.52504901	0.233105975	1.180996152	173.815121	154.4383209	29.45130184	0.233176571	0.031410026
CH01_UPb_08	0.064073937	0.001082291	400.322212	6.557331994	0.490013643	0.024319369	402.4855974	16.40842037	0.019457397	0.000487678	389.47041	9.666350537	0.055488532	0.002719127	359.5799856	114.9920899	15.64957199	0.267314956	1.0667509	125.4908608	123.6328518	22.32377366	0.134189553	0.103790698
CH01_UPb_08	0.06445949	0.000940306	402.6681438	5.697161473	0.491739077	0.015676466	404.7890905	10.60244535	0.019955312	0.000427929	399.3446814	8.479552372	0.055351478	0.001735623	401.6883123	66.55240698	15.52016603	0.22093755	1.13865398	227.9502373	209.7784441	39.68517033	0.087941167	0.215827013
CH01_UPb_09	0.064784524	0.001179356	404.6121074	7.138102824	0.487428737	0.01336621	402.3593514	9.109126391	0.019763376	0.000389668	395.5506693	7.721660358	0.05457537	0.00141902	372.8389211	59.51432418	15.49438368	0.283248694	0.894395864	441.9412877	503.7244046	91.88919809	0.163262717	0.359694599
CH01_UPb_10	0.064204001	0.000886119	401.1313942	5.367845638	0.481951712	0.013951615	398.6703874	9.54342178	0.019942921	0.000384957	399.1121556	7.629942809	0.054359707	0.001634099	360.8898461	69.52720572	15.58904778	0.215680975	1.13832529	334.8777077	319.4790698	60.90365296	0.300053188	-0.06273214
CH01_UPb_13	0.065084176	0.000920692	406.4535592	5.571762137	0.549703173	0.018178306	443.1937435	11.82872953	0.020690056	0.000420976	413.9025592	8.336018121	0.060913902	0.001934722	620.615628	69.8299377	15.36733763	0.227999019	1.011129255	248.0620927	278.6904799	53.68943308	0.181399301	0.064377529
CH01_UPb_13	0.064362131	0.001039932	402.0710341	6.298900988	0.505926333	0.020675107	413.8461355	13.91034201	0.020010087	0.000480088	400.4254745	9.511283734	0.057000938	0.002253196	444.2664973	87.71217952	15.57487284	0.253417613	1.111930035	181.5063433	171.3619608	31.93095395	-0.0172549	0.303515052
CH01_UPb_13	0.06458954	0.000968404	403.4610771	5.864865531	0.496999424	0.018783653	408.4793141	12.67021295	0.019786094	0.000434204	395.999101	8.604214482	0.056050256	0.002205701	418.4985712	86.02077601	15.50287971	0.234376407	1.137809623	273.4904858	252.5459754	45.96303813	0.396206171	-0.11444416
CH01_UPb_14	0.063057729	0.001198586	394.1842354	7.269772253	0.520395857	0.031970364	424.5142317	21.41753742	0.019710949	0.000587876	394.5159705	11.65010691	0.059660883	0.003574308	568.1698821	134.6725843	15.87282884	0.304773041	0.826975255	334.276192	424.557222	78.4043306	0.041473749	0.188036642
CH01_UPb_14	0.065102127	0.00098081	406.5555135	5.936625957	0.599069897	0.016931409	475.3734168	10.68698277	0.022083879	0.000420805	441.488144	8.319764764	0.066654921	0.001857297	800.9310262	60.0425757	15.39165488	0.233433137	1.129971639	246.8105151	226.2105197	47.75041092	0.166703659	0.186556031
CH01_UPb_16	0.065554219	0.001010882	409.2863442	6.114855028	0.541213643	0.018628355	437.4796654	12.18814267	0.021190835	0.00049989	423.800541	9.891610698	0.059812752	0.002091649	552.0693474	77.50707633	15.29098885	0.236057665	1.020325483	141.9529113	144.2076051	30.0685778	0.235034939	0.057027476
CH01_UPb_17	0.063838363	0.000900489	398.910887	5.458534723	0.489362263	0.012954965	403.6417258	8.822800823	0.019728654	0.000343503	394.8678118	6.808111906	0.055363099	0.00147002	412.6326443	57.03751767	15.66477664	0.235909048	0.692834874	269.8296	403.2044526	76.67764089	0.172179465	0.147621464
CH01_UPb_19	0.065172157	0.001373581	406.983232	8.319443464	0.514729566	0.027319968	420.7197433	18.26237567	0.020604253	0.000529903	412.2147003	10.49676623	0.057343462	0.002919174	482.3858239	111.4473902	15.37068469	0.334120113	0.840913929	302.2313031	370.741256	67.97276829	0.073706861	0.253694493
CH01_UPb_19	0.064673368	0.001102104	403.9569135	6.678775526	0.525202167	0.018989173	427.4444772	12.6087052	0.02094906	0.000467531	419.0329828	9.254067716	0.058808884	0.002118685	530.0271112	78.7030605	15.4564242	0.249464774	1.363851404	258.7556247	206.7211177	39.24544009	0.203451783	0.194102816
CH01_UPb_20	0.065248346	0.000904426	407.4532649	5.472956149	0.49284123	0.016385969	405.7984888	11.07758045	0.020306062	0.000395344	406.3058179	7.829235414	0.054316223	0.00176385	354.8000185	73.00967828	15.34055397	0.212726942	0.99109939	180.7228615	175.8459539	31.50220361	0.064251459	0.182943565
CH01_UPb_20	0.065794986	0.001121899	410.748319	6.787146017	0.549883543	0.02029159	446.8434897	12.0852656	0.021251832	0.000509835	425.0248269	10.09141254	0.060503724	0.002372683	591.4693965	87.32236096	15.22822628	0.262966124	1.131654403	176.5374398	149.5551025	26.87312161	0.353790764	0.024943564
CH01_UPb_23	0.065092051	0.001036524	406.4974737	6.272526477	0.536224539	0.017446839	437.2480966	10.71176038	0.020053467	0.000422687	401.2992442	8.375527048	0.059821772	0.001742768	576.3355857	65.2093165	15.39006072	0.244824277	1.051163484	203.5887106	184.8177245	32.15906248	0.113849701	0.243406743
CH01_UPb_24	0.064262346	0.000921435	401.4778449	5.581938844	0.504219875	0.013140951	413.7290751	8.815130708	0.019881294	0.0003877	397.8866826	7.682818695	0.05693852	0.001532177	464.8263897	58.85870399	15.56115878	0.211717239	0.960781388	162.3507107	159.2596362	27.69218109	0.145556231	0.201064362
CH01_UPb_24	0.063861905	0.00096642	399.0473016	5.854449396	0.469357188	0.017008668	389.3507328	11.75286175	0.019978208	0.000414579	399.8038623	8.214857229	0.053044085	0.001853977	287.3876653	83.64850763	15.6881043	0.2367831	1.058323399	113.0784	99.46410431	17.95849172	0.050209481	0.238394705
CH01_UPb_24	0.06571565	0.001356187	410.2584177	8.201699243	0.499658586	0.023549584	410.2777107	15.98955766	0.020507851	0.000597309	410.2905275	11.83138329	0.054512073	0.002301586	363.2046836	99.55066957	15.25873367	0.314239054	1.215536101	148.6168727	113.939386	21.26515467	-0.10799248	0.450152647
CH01_UPb_26	0.063601239	0.00091027	397.4781511	5.516126557	0.479896455	0.014233633	397.3208226	9.768244648	0.019996759	0.000410757	400.1776613	8.138170085	0.054461994	0.001723974	365.9974574	72.55749123	15.73828113	0.224421124	1.231968629	187.2177006	140.8883774	24.55458909	0.369881273	-0.0764895
CH01_UPb_27	0.06142382	0.00108474	384.2641047	6.588269944	0.615809316	0.020882358	486.5620723	13.09864199	0.024008215	0.000547851	479.5115446	10.81589596	0.072472551	0.002766664	984.0395561	74.8339637	16.30244769	0.289172049	1.292276181	271.909316	194.5674423	39.33405779	0.37917341	-0.03902119
CH01_UPb_28	0.063908271	0.001031224	399.3268166	6.246025811	0.490782393	0.01756402	404.3007566	11.9483263	0.020145788	0.000424272	403.1273841	8.405161586	0.055356057	0.001923708	409.2495659	75.96081608	15.67846179	0.250990103	1.056627797	160.0814137	139.6546226	24.39476277	0.112219551	0.212243721
CH01_UPb_29	0.06443422	0.001084325	402.4994797	6.567455227	0.508840419	0.021640219	415.439888	14.61694727	0.020246372	0.000495888	405.1016523	9.819239812	0.056892744	0.002430246	422.8510752	100.9831057	15.56828671	0.264497153	1.364084673	81.80809022	55.08174776	9.931153011	0.15636779	0.136143428
CH01_UPb_29	0.064591378	0.000943896	403.4685911	5.713519273	0.553334604	0.0169948	445.8795427	11.16238277	0.021514284	0.000453611	430.2151495	8.976240228	0.061659155	0.001894434	642.5013779	64.93425056	15.50680521	0.224801456	1.204170346	160.4443377	126.6225382	23.81068132	0.108264059	0.183497745
CH01_UPb_33	0.064254169	0.001118584	401.4348637	6.77334263	0.48182944	0.023056011	398.6451017	15.90795695	0.019846158	0.000443066	397.1998697	8.77865549	0.054351094	0.002833023	360.2425407	121.3359318	15.57726317	0.269033527	0.84772895	283.2634532	304.6511775	50.07928836	0.399263218	-0.15033094
CH01_UPb_33	0.065509195	0.00096027	409.0222818	5.810245319	0.487793044	0.016455016	402.0531498	11.14708745	0.020497042	0.000456485	410.0742544	9.04285029	0.053549214	0.001816483	310.6104884	77.8156143	15.26982604	0.235312873	1.171443571	118.7666363	92.34276064	16.91889318	0.169659786	0.102109806
CH01_UPb_33	0.065924056	0.000980878	411.5289369	5.930486467	0.503613557	0.013948553	413.1452649	9.466752114	0.020278354	0.000434427	405.7454094	8.60801752	0.055568609	0.001607578	402.9601864	67.89769353	15.19784467	0.225055852	1.311897202	157.8359816	111.8453566	19.7554557	0.229819248	0.107626126
CH01_UPb_34	0.06354038	0.001076033	397.0844504	6.520925378	0.478154549	0.01983284	394.8978256	13.56803204	0.019507882	0.000430835	390.4775635	8.542084329	0.054369634	0.002383865	321.2579089	100.5538699	15.78748972	0.267700379	1.087421016	93.36193654	78.66212717	13.42015361	0.310478552	-0.0392118
CH01_UPb_34	0.063623112	0.000933576	397.6019976	5.655930541	0.481104525	0.016520929	397.4154284	11.38817573	0.019591008	0.000366443	392.1353576	7.264476879	0.054400514	0.001935763	368.2576535	76.44736188	15.72251628	0.23923816	1.1799697	114.8433001	89.03745618	15.72049282	0.222620039	0.010808648
CH01_UPb_35	0.063222457	0.00101516	395.1764275	6.153496568	0.473095072	0.018002319	392.4022917	12.34961224	0.019320097	0.000516932	386.7541993	10.255207	0.054303982	0.002155671	370.3177733	94.94058093	15.84039002	0.253171106	0.98093523	201.4218684	191.1027164	31.88952134	0.283391458	0.047329917
CH01_UPb_35	0.064604888	0.000952531	403.5482312	5.767524333	0.490826078	0.014214207	404.4223574	9.771508411	0.020047473	0.000370405	401.1821788	7.338234064	0.054678909	0.001560804	379.3676732	65.19740821	15.50663025	0.229047791	1.103268513	177.3934963	150.442378	27.09550389	0.102249155	0.195942638
CH01_UPb_38	0.065521503	0.001026035	409.08597	6.207641083	0.51394473	0.019220818	419.1354019	12.89404002	0.020713251	0.000465796	414.3519721	9.223006755	0.056529605	0.002194189	427.5372109	88.63399946	15.30197203	0.241495879	1.173332542	128.4200043	102.9021195	18.89290071	0.33587555	0.06113314
CH01_UPb_39	0.064855103	0.001181921	405.0624212	7.149889269	0.49401242	0.023794829	410.7496899	17.96038304	0.020623898	0.000567487	412.5921285	11.23310544	0.05504071	0.002331783	408.4228195	107.2853525	15.44694708	0.275703648	1.076770958	222.6747009	195.7630435	34.25614706	-0.07777998	0.353300762
CH01_UPb_39	0.064090833	0.001633693	400.4396594	9.892377324	0.554324955	0.046608881	446.6211935	29.52236467	0.021333783	0.000691336	426.6576019	13.67525718	0.062824345	0.004392373	682.7928558	144.515259	15.62456553	0.393165101	1.113834682	491.8643126	507.6268217	94.43874495	-0.28714539	0.570988448
CH01_UPb_40	0.063072921	0.00089352	394.2764622	5.418827669	0.475268996	0.013398664	396.1903303	9.929674593	0.019744671	0.00039241	395.1838611	7.778421086	0.054619473	0.001651807	375.6201528	68.22577341	15.86880109	0.226167476	1.037693579	342.7948517	383.4692485	69.40931678	0.133970435	0.141665971
CH01_UPb_40	0.064930617	0.001004076	405.5157473	6.077914161	0.494928773	0.018411151	406.63755	12.45111127	0.020219647	0.000458466	404.5794882	9.084533451	0.054531415	0.001937062	359.0685303	85.62209747	15.40840987	0.227556858	1.163811165	170.7156989	170.002462	32.86816261	0.147186214	0.134018026
CH01_UPb_40	0.063955277	0.001039798	399.6245175	6.294433975	0.513906807	0.027191072	419.9373906	18.109744	0.02006315	0.000713726	401.4770024	14.13975417	0.058981394	0.002953438	538.9886758	110.4870862	15.64945903	0.247874193	1.138575199	279.7132696	280.3781861	49.82893719	-0.16913744	0.39454891
CH01_UPb_41	0.064457087	0.000905346	402.6586469	5.480341685	0.489999008	0.012364774	404.1252229	8.41215445	0.019750025	0.000346471	395.2906555	6.868810832	0.054955608	0.001407341	394.0159821	61.91244625	15.53486755	0.215669799	0.905083063	318.9842843	405.4634598	73.60002678	0.218978163	0.072984214
CH01_UPb_41	0.065436734	0.000910656	408.5892439	5.508713628	0.500692281	0.011460647	411.5060354	7.746044922	0.020432287	0.000355361	408.8088422	7.038592467	0.055465693	0.001399174	426.1194495	61.08290061	15.3012225	0.212215341	1.095416449	252.3776439	264.6891503	49.40144675	0.154194838	0.095355299
CH01_UPb_42	0.063539039	0.001075624	397.0776603	6.519696725	0.470347221	0.020205205	392.2210672	14.6504455	0.019741165	0.000463387	395.097451	9.183770939	0.053851078	0.002576501	310.2347572	111.5626752	15.75273305	0.2833381	1.155733445	128.3675565	120.3736236	21.55429127	0.226293345	0.011529022
CH01_UPb_42	0.063344415	0.000974275	395.9062725	5.905176109	0.474699554	0.019872165	392.2888995	13.67573487	0.019832172	0.00041937	396.9059945	8.310431999	0.054346087	0.002196352	321.1933019	96.11146466	15.82313448	0.243710921	1.025712511	127.5155064	134.450907	24.40056076	0.11171597	0.26046816
CH01_UPb_43	0.064357552	0.000903648	402.0581943	5.471606442	0.485711784	0.016402436	400.7656625	11.40353997	0.019803212	0.000377668	396.3422009	7.483068661	0.054402691	0.001810083	364.0295367	77.89444705	15.55596072	0.21710848	1.005145946	226.249166	242.2960935	43.90067613	0.068923583	0.184772697
CH01_UPb_43	0.065185739	0.001046979	407.061812	6.33404241	0.616759569	0.027542719	485.3844612	17.29948491	0.021855193	0.000620257	436.9368452	12.26666592	0.067116534	0.002594482	818.8984235	91.05432848	15.37111766	0.245436828	1.233627305	227.250147	195.3638324	38.80864499	-0.08888431	0.344959985
CH01_UPb_44	0.063776513	0.001048669	398.542034	6.357175071	0.483924804	0.019889725	400.197694	13.50768235	0.019941015	0.000507957	399.0751444	10.06434268	0.05527039	0.002279508	406.2107458	89.92197292	15.69295349	0.261766686	0.894312822	299.3996893	345.7043349	58.17642237	0.226340737	0.131447784
CH01_UPb_45	0.063770163	0.000964591	398.5017934	5.844682813	0.485511643	0.014084085	403.7548863	10.64828942	0.01960878	0.000375568	392.494055	7.445135411	0.055340561	0.001868189	406.1117857	75.27685202	15.6590425	0.262652633	0.659233662	318.243236	491.3259265	82.43552853	0.35746948	-0.0265202
CH01_UPb_45	0.063460868	0.001062534	396.6270861	6.442984529	0.50301824	0.025544969	412.7224848	17.19060046	0.020208017	0.000545316	404.3617768	10.80538331	0.057349839	0.002711577	480.68833	103.1076384	15.77373025	0.267729659	1.166471254	238.9860749	205.556025	34.92489117	-0.18486156	0.415138199
CH01_UPb_45	0.063931464	0.001017354	399.4797817	6.167830238	0.479520812	0.02335322	396.7263028	16.10157153	0.02022417	0.000477855	404.6850023	9.466636592	0.054072443	0.002599913	343.1058452	111.3229555	15.65656838	0.254623576	1.217534899	206.0279215	167.9302124	29.21990404	0.020962775	0.187655586
CH01_UPb_46	0.063825914	0.001111956	398.8250106	6.733550536	0.479298792	0.014549019	396.9294239	9.980114423	0.019603552	0.000416881	392.3842333	8.263013679	0.054188365	0.001604764	359.3302454	66.71061423	15.70218877	0.269103586	0.789245128	252.0889625	315.8686808	53.93927729	0.134496736	0.285736406
CH01_UPb_46	0.065013162	0.001004654	406.0142194	6.079215854	0.486401181	0.013698606	401.484688	9.439434972	0.020395495	0.000431794	408.0671481	8.551718322	0.054008738	0.001620324	336.5621238	71.91508364	15.4160607	0.237139691	1.098844457	160.8415486	146.3964331	26.80018295	0.339613562	-0.02082455
CH01_UPb_46	0.064166644	0.000948148	400.903763	5.74378437	0.484720441	0.016212816	400.55923	11.14967995	0.020119018	0.000509326	402.5915712	10.09068414	0.054352281	0.001759726	363.1757293	76.79413307	15.59992427	0.231141321	1.165484158	231.8310571	193.3672967	34.00417697	0.065960587	0.225508317
CH01_UPb_47	0.06515065	0.000920948	406.8587748	5.573147576	0.613105409	0.020698372	483.8840839	13.04989638	0.022267102	0.000564874	445.0871836	11.16599288	0.067305909	0.002106669	828.2925271	70.42345016	15.36773303	0.217346223	1.141181527	151.0680076	128.491016	26.23996331	0.004636341	0.216364475
CH01_UPb_47	0.06471328	0.000937088	404.2089036	5.67091476	0.549102845	0.015348166	443.4190444	10.10409452	0.020945563	0.000443411	418.9616069	8.779491441	0.061145787	0.001687186	620.4013919	61.80324568	15.47457398	0.221274363	1.132211744	178.037707	152.597263	28.36842509	0.125617177	0.187492941
CH01_UPb_48	0.064032757	0.001204674	400.0935527	7.291225471	0.516094706	0.026489226	421.8828979	17.69594292	0.019875928	0.000481307	397.7899257	9.535400737	0.058018637	0.003143439	510.7319119	119.010079	15.63095652	0.285422421	0.804558124	307.7782172	370.8042958	65.2460785	0.305270701	-0.03282171
CH01_UPb_49	0.064890508	0.001003874	405.2900081	6.076787708	0.516150126	0.017202571	422.1092626	11.39854954	0.02080236	0.000476564	416.1381143	9.437795486	0.057498629	0.002017202	496.9057101	74.21527552	15.42196695	0.238572479	1.088259919	320.5124077	307.9017458	58.82493008	0.303371412	-0.01139237
CH01_UPb_49	0.064178654	0.001229104	400.978046	7.448178365	0.494775082	0.027454786	407.517399	18.64458941	0.020102399	0.00066631	402.2707983	13.20434515	0.057084228	0.003691509	469.9594387	143.1170907	15.59509984	0.30287028	1.193788607	276.7867809	242.6367618	43.71084154	0.497707917	-0.14826939
CH01_UPb_50	0.064179841	0.000966379	400.9796246	5.852150067	0.480833136	0.017183795	397.6219482	11.75948726	0.019850092	0.000459245	397.2643024	9.104796775	0.053628065	0.001851126	357.018084	78.02216832	15.60197175	0.233620221	0.889162178	199.636845	235.6456193	44.03818362	0.286704507	-0.03314232
CH01_UPb_50	0.058712078	0.001222469	367.755958	7.439697656	0.540802223	0.030135769	436.8281962	19.78666038	0.020715	0.000767789	414.3642483	15.19310437	0.066150632	0.003399158	767.1756217	113.1940588	17.08729585	0.353053429	1.195782788	156.7094952	136.3444249	27.68999978	-0.06431503	0.387841499
CH01_UPb_51	0.065103309	0.001092846	406.5517278	6.613795202	0.486237127	0.021386329	400.2115026	14.63048306	0.020414371	0.000543464	408.4217995	10.76397615	0.053620539	0.002393371	299.8294345	109.4801628	15.40537039	0.260074233	1.170737473	91.68671928	88.06528237	16.77297623	0.295185296	-0.02862249
CH01_UPb_51	0.060505186	0.001062159	378.6692951	6.459489886	0.693733557	0.026226653	533.1771085	15.58610715	0.023231045	0.000543632	464.1508343	10.73824243	0.082824824	0.003253144	1235.411505	75.07173904	16.57226408	0.297407554	1.284417412	193.4896047	155.2777605	33.69716794	0.287367965	0.040130856
CH01_UPb_52	0.063508345	0.00099668	396.9038341	6.040408428	0.490413448	0.017114274	406.1206033	12.30310178	0.019979977	0.000470759	399.8326008	9.330785396	0.05600703	0.001967662	416.213187	80.78904869	15.77684916	0.247705788	1.119471069	141.0784127	129.0611586	24.44713669	0.07636397	0.251233013
CH01_UPb_52	0.065371489	0.00099279	408.1931603	6.008463798	0.510638786	0.016568493	417.9765821	11.15035006	0.020618161	0.000433952	412.4852421	8.593497287	0.056339428	0.001893832	438.5053807	76.48867593	15.31843748	0.234810158	1.173064115	211.3442281	183.3298351	35.38303158	0.217203891	0.079361393
CH01_UPb_53	0.063724761	0.001046457	398.2104999	6.33850392	0.496794756	0.018623527	408.1140179	12.64808644	0.020043734	0.00379008	401.1097172	7.508474589	0.056245744	0.002135164	440.432294	79.65265549	15.72946506	0.255575981	0.789989566	161.5841078	206.6866999	39.08409019	0.214775483	0.067883044
CH01_UPb_53	0.064406517	0.000938739	402.3503759	5.684646923	0.489476764	0.015648969	403.4102167	10.73281423	0.020353573	0.000390491	407.2454592	7.736266594	0.054845915	0.001807437	367.7455693	79.2844426	15.54997169	0.226642864	1.187126469	180.6642416	152.3226364	29.52446024	0.25496866	-0.00854471
CH01_UPb_53	0.065671207	0.001074602	410.0067914	6.501584473	0.521611738	0.024721001	424.8560278	16.48840327	0.021317155	0.000674792	426.3021392	13.35162446	0.058435813	0.00298743	504.9708882	112.5873386	15.24791195	0.251775278	1.20200896	147.9712587	122.20056	23.33349063	0.078551642	0.209736802
CH01_UPb_54	0.063127833	0.00100349	394.5906485	6.086939921	0.481345128	0.013905747	398.0154706	9.502022392	0.019450804	0.000396535	389.3507976	7.861296279	0.055157061	0.001649727	386.4755181	68.17393655	15.88183702	0.257295092	0.922946012	117.7193651	126.5243767	23.14437583	0.313215714	0.067931819
CH01_UPb_54	0.063977507	0.00094545	399.7483022	5.730156787	0.486559291	0.019632108	400.5438853	13.54959001	0.019666288	0.000404885	393.6211164	8.027722287	0.05485013	0.002205915	339.7167014	102.0201564	15.65944335	0.235244997	1.093068225	77.24125267	69.11170346	12.91288592	0.101251516	0.108138214
CH01_UPb_55	0.065017851	0.000953643	406.6688615	6.09588496	0.492393335	0.017921884	404.9389982	12.14324067	0.020252471	0.000473337	405.2258749	9.378355501	0.054629331	0.001998297	349.272266	83.77564528	15.38548207	0.239384666	1.037928941	107.0841348	101.0254662	19.1191661	0.134371918	0.128491994
CH01_UPb_56	0.062648051	0.001179477	391.6925801	7.159182943	0.638299236	0.05559141	497.1042195	34.82505667	0.024513526	0.001423533	489.3687203	28.06638483	0.073404188	0.006052526	956.9046297	177.1396294	15.91612999	0.254080859	1.180339397	142.785878	118.5791975	25.34897708	-0.3076803	0.423086414
CH01_UPb_57	0.063291596	0.000994541	395.5892756	6.029153264	0.482115618	0.014449491	398.6304822	9.901330464	0.020114868	0.00043247	402.5111532	8.566951712	0.055019371	0.001782688	380.7373694	74.82883504	15.83198128	0.249319884	1.103214524	117.2960538	103.6949296	19.18452387	0.381712824	-0.08652542
CH01_UPb_57	0.063762261	0.000933878	398.4474212	5.659564262	0.490075408	0.015322843	403.8785903	10.51308191	0.019985663	0.000406492	399.953359	8.055237206	0.055485942	0.001739558	412.2591795	69.59852291	15.70757092	0.231157419	1.120917114	134.1804707	115.7765312	21.58561341	0.175791455	0.106773823
CH01_UPb_57	0.0647738	0.001019479	404.5712506	6.173843355	0.499463528	0.017024787	410.300479	11.46203003	0.020663153	0.000460308	413.3713182	9.113916494	0.055714572	0.001971403	409.2747128	78.8729678	15.46597233	0.246821381	1.267502639	150.4385022	114.5821477	21.41429599	0.261697675	0.032601023
CH01_UPb_58	0.064908394	0.000953218	405.3921321	5.768930423	0.511561534	0.0161884	418.562828	10.91431914	0.020203982	0.000420278	404.2811956	8.324859029	0.056823596	0.001576776	475.3890983	66.60310445	15.42552791	0.225332884	1.010735403	214.3454361	205.330925	37.40133287	0.084750028	0.323482341
CH01_UPb_58	0.060580272	0.001823345	379.0607122	11.06788122	0.48043097	0.016582285	397.6541283	11.16912142	0.018886294	0.000545948	378.1480954	10.82535668	0.057815888	0.00163744	508.3795041	60.56522537	16.64932833	0.487921321	2.304001156	617.7934484	263.1862737	45.25454373	0.025458507	0.714345303

CH01_UPb_59	0.063932281	0.00099576	399.4738132	6.030022252	0.488794643	0.017046619	402.9100173	11.61100213	0.019655549	0.000440015	393.4073793	8.724065831	0.055116225	0.001888083	382.0186664	79.89982767	15.67036525	0.240779485	1.024537288	208.5370207	222.0059221	45.56217766	0.130831478	0.396838104
CH01_UPb_60	0.064147957	0.001003622	400.7754823	6.075370023	0.487248223	0.016384366	401.7050928	11.310141	0.02011293	0.000407386	402.4740916	8.072636264	0.055156682	0.001895564	376.4731913	80.66068856	15.62393007	0.240300198	0.90132159	271.2163375	329.4713899	68.73857296	0.310715257	0.262418409
CH01_UPb_60	0.064590611	0.000936616	403.4684312	5.673631338	0.499278587	0.017161763	410.0794283	11.65354831	0.020340927	0.000393202	406.9969816	7.788469075	0.055712273	0.001955954	420.7414154	77.25548421	15.50164246	0.228786407	1.024105489	373.0999837	403.1406228	84.44667926	0.238283025	-0.00249034
CH01_UPb_61	0.066939903	0.001008826	417.6686674	6.092551641	0.517925705	0.017796077	422.2714715	11.86631095	0.021349196	0.000416697	426.9545005	8.244987884	0.055488443	0.001818815	404.0059297	77.67645309	14.96732366	0.223354725	0.883945247	353.8652229	475.6822662	103.9139283	0.128552198	0.172551607
CH01_UPb_61	0.065767624	0.001436551	410.5969893	8.68822809	0.549077185	0.025300746	444.0892314	16.50200605	0.021168716	0.00078421	423.3895402	15.51614832	0.060250618	0.002284754	607.0430868	79.43375952	15.21665113	0.331664595	1.017268925	432.8060897	480.8110294	103.2977996	-0.28102358	0.631741946
CH01_UPb_62	0.064612011	0.000938245	403.5939621	5.68246644	0.494913476	0.01176737	410.3882764	8.873212673	0.02044021	0.000394611	408.960138	7.814497392	0.055567544	0.001475132	429.0306807	59.73439096	15.50173925	0.227770808	1.019807858	464.4323283	527.6916734	112.254704	0.368563249	-0.04270101
CH01_UPb_62	0.064537625	0.000971684	403.1382153	5.884677627	0.502439294	0.016252758	412.0083301	10.94148412	0.020210715	0.000449764	404.4023157	8.90751194	0.056191438	0.001877708	431.1922359	72.9631888	15.52657036	0.235518742	1.225329566	278.7039936	262.4487439	56.81935637	0.284272388	0.008915141
CH01_UPb_64	0.0643514	0.000943089	402.0155644	5.712454553	0.497702483	0.018048312	408.6158047	12.24245064	0.020037312	0.00037289	400.9815286	7.388581564	0.055703153	0.001975378	396.0837037	84.58696748	15.56480665	0.229657283	0.830710943	311.2107618	428.2363998	93.80087254	0.052670915	0.184886203
CH01_UPb_64	0.064827265	0.001243579	404.896005	7.533327953	0.544150452	0.025148727	440.2009369	16.28825187	0.020717164	0.000556271	414.4453059	11.01383153	0.060650806	0.002718285	604.9447377	95.40436255	15.45203797	0.303558578	1.118105956	413.8742118	418.5849071	88.44652887	0.110032474	0.236794383
CH01_UPb_66	0.06375836	0.001048214	398.4093389	6.350254513	0.517598381	0.021635879	421.3815047	14.46932872	0.020207212	0.000478429	404.3296422	9.476914469	0.058738638	0.002661988	489.6596272	102.8215915	15.72785586	0.257639258	1.06490913	192.0806509	213.0065418	46.21825134	0.323767988	-0.09514294
CH01_UPb_66	0.064293923	0.000992211	401.6629372	6.011710933	0.482839447	0.015842085	398.8738249	10.85603359	0.020183759	0.000460568	403.8700191	9.125695859	0.054251787	0.001793484	359.7659135	73.08345918	15.58500947	0.244194571	1.181834926	256.1099907	241.6141148	50.45265249	0.185112506	0.104234758
CH01_UPb_66	0.065383587	0.000966302	408.2695358	5.848138066	0.517659715	0.015596763	422.8548206	10.38056187	0.020552403	0.000473514	411.1791493	9.37496799	0.057166553	0.001778244	477.0436633	68.07262044	15.31157108	0.228640662	1.170989661	333.7841089	313.8512674	65.27861729	0.250158644	0.0708185
CH01_UPb_67	0.064853284	0.000959392	405.0533183	5.805217993	0.509829533	0.016873311	417.0087671	11.41502768	0.020786709	0.000460923	415.8118934	9.125596192	0.056619051	0.001890016	438.5486641	77.41424769	15.42219644	0.236689054	1.139191203	201.7805835	191.3684867	40.5663452	0.171132225	0.125101198
CH01_UPb_67	0.064292758	0.001034447	401.6535697	6.266464726	0.491623456	0.017770886	404.7250267	12.05849713	0.019759698	0.000475977	395.4658517	9.434714474	0.055081325	0.002003987	376.6665327	83.3074727	15.58823174	0.253484023	1.267962407	194.2473732	164.5827818	32.88404009	0.183957529	0.124224511
CH01_UPb_68	0.063758576	0.001255104	398.4234305	7.598235735	0.491667349	0.029139136	404.7386076	19.83336068	0.019858839	0.000589735	397.439779	11.68667126	0.055881	0.003404652	407.5708983	137.1170193	15.70987426	0.30013503	1.125046839	261.6797471	246.6939365	45.96833504	0.236919101	0.016101496
CH01_UPb_70	0.064825704	0.001050196	404.8737101	6.35329894	0.483430633	0.024008591	397.5183102	16.36317394	0.020050124	0.000423381	401.2260268	8.388504705	0.053964101	0.002640231	324.6932083	107.0129179	15.46773309	0.246440427	0.558177139	123.6702731	253.9298664	48.46621744	0.166174221	0.06574674
CH01_UPb_73	0.059959889	0.00136928	375.360778	8.326231572	0.467502187	0.024251906	388.7337525	16.79041742	0.018938004	0.000692703	379.1787276	13.735964	0.056430168	0.002707596	449.4708405	108.215855	16.71136723	0.380228449	1.328408131	236.0416848	183.9820747	31.70510065	-0.00829375	0.397270202
CR05																								
CR05_UPb_01	0.058017254	0.001236355	363.4809556	7.52929014	0.453293503	0.031344593	373.896025	21.63665621	0.019004023	0.000876848	380.3423041	17.36861729	0.056160255	0.003599353	300.1958506	161.6708694	17.28042246	0.364403234	1.935913141	41.26400766	21.580503	3.377697164	-0.04304432	0.332550619
CR05_UPb_02	0.065578973	0.001155662	409.4218905	6.98694572	0.494960858	0.020728896	406.3022821	13.99054232	0.020427165	0.000682035	408.6409056	13.50983823	0.054538292	0.00235722	330.660676	100.1734279	15.30227559	0.26622016	1.938326463	75.55548087	37.4041076	6.560162944	0.24826066	0.05935073
CR05_UPb_02	0.065418346	0.001056905	408.4614519	6.394771767	0.506028712	0.017311951	414.3415983	11.72428208	0.020599604	0.000598523	412.0757555	11.85273451	0.055867223	0.001964748	419.5063432	76.30796824	15.32658575	0.248514032	1.810571904	99.93483112	52.79883934	9.238114873	0.256254644	0.092596787
CR05_UPb_03	0.065884202	0.001364726	411.2845404	8.249928376	0.521870445	0.034315767	424.5107729	22.48624877	0.020531555	0.000964144	410.7237604	19.09434317	0.05734941	0.004004251	451.121484	149.115745	15.21100275	0.311518755	2.31844827	112.9844103	46.85231956	7.79006074	0.340261718	-0.13587467
CR05_UPb_04	0.066085913	0.000982602	412.5108148	5.940998916	0.484295013	0.01594095	401.7765388	11.50246059	0.020289512	0.000443387	405.9682621	8.779534333	0.053218653	0.001926086	309.8169704	81.22190841	15.1568617	0.225564957	1.373669246	136.9960896	95.56215812	16.34287203	0.325497003	-0.08999155
CR05_UPb_04	0.067352214	0.001011152	420.1671644	6.107258609	0.496104785	0.020265916	407.6787879	13.82658105	0.020975818	0.000522876	419.5552464	10.35049781	0.053119078	0.002140178	293.069992	94.97664584	14.86668834	0.224278452	1.856613569	132.5162667	68.43391458	11.74696194	-0.04010216	0.262409253
CR05_UPb_05	0.061188016	0.002019934	382.7647756	12.26981386	0.490970667	0.015574632	408.3517648	12.29232497	0.021092446	0.000941012	421.8292264	18.61264791	0.059070157	0.001589754	560.2731363	57.58476039	16.46924939	0.549104275	3.7034388	970.9190101	250.9794788	41.75459058	0.249841814	0.626023067
CR05_UPb_07	0.065927104	0.001020622	411.5466562	6.172541888	0.499229262	0.017752602	411.8675478	12.58864945	0.020996436	0.000590419	419.9410354	11.68501059	0.054556812	0.00199102	364.541987	88.43794506	15.17258216	0.248104833	1.936798934	112.3490696	56.269534	9.632182676	0.26658142	-0.00218742
CR05_UPb_07	0.064946469	0.001106068	405.6165524	6.697819667	0.496475963	0.022886199	407.9594548	15.43987141	0.019940365	0.000514902	399.0520728	10.20234466	0.05519961	0.00242055	383.308648	102.2629475	15.42478025	0.266982377	1.406830706	153.8862858	105.9919479	16.73989368	0.062131711	0.233580421
CR05_UPb_08	0.066328664	0.000973811	413.9763101	5.888489324	0.495812983	0.014964608	407.693422	10.09154805	0.020898871	0.000445171	418.0328608	8.814326082	0.053773251	0.001693472	333.2387566	74.12223055	15.10419193	0.224538865	1.464186626	126.5699275	83.43989282	14.27884533	0.439168997	-0.15799797
CR05_UPb_08	0.066969658	0.001063008	417.8503785	6.418751202	0.504236295	0.02620542	412.1895373	17.62976978	0.0205924	0.000699906	411.9653644	13.85731261	0.054397572	0.002912756	315.0153717	124.3711944	14.95828653	0.234109044	1.882704391	107.0879471	56.20008553	9.18178526	0.213853395	-0.00642227
CR05_UPb_08	0.065352681	0.001022051	408.0687747	6.180792839	0.516638757	0.021749292	420.7140622	14.55167406	0.020698907	0.000620121	414.0377678	12.28086293	0.057337879	0.002463661	442.1038316	98.89560328	15.33558144	0.236637211	1.890435355	95.85734065	49.52352575	8.388288464	0.151407784	0.060859813
CR05_UPb_09	0.063191721	0.001176799	394.9824439	7.132570498	0.589459144	0.018468306	469.8155993	11.85034177	0.025366923	0.000764681	506.2809441	15.08357202	0.067926971	0.002109324	851.4402953	65.76433825	15.85860434	0.293369173	1.792373376	236.9393755	128.9421729	25.3771612	0.376774333	0.157833183
CR05_UPb_10	0.065020912	0.001088141	406.0727876	6.587526596	0.492725768	0.026445553	405.3472853	17.85276661	0.020534204	0.000672906	410.8054446	13.33135047	0.05524333	0.002890308	381.1356667	121.9583982	15.39959709	0.259967462	1.559464782	152.6574628	95.70284379	15.22037804	0.093066189	0.204568907
CR05_UPb_10	0.0670485	0.001172697	418.3315258	7.090815782	0.515633352	0.020232422	421.4779774	13.6370048	0.021528099	0.000830245	430.4649702	16.43552577	0.056200908	0.00238632	435.7998807	96.98546704	14.88030992	0.227760754	2.720632094	353.3941639	124.2774164	20.81456816	0.4598062	-0.13175731
CR05_UPb_11	0.067191723	0.001087172	419.1806913	6.562900517	0.518930759	0.019245308	422.7023862	12.88351485	0.021651575	0.000663012	432.8835718	13.12362828	0.05537616	0.002040338	406.1480413	84.2262898	14.92160043	0.238052875	2.394345467	107.9676947	43.87585426	8.022008391	0.253467555	0.02492661
CR05_UPb_12	0.066304047	0.001028292	413.8238225	6.215805156	0.515821922	0.020285796	420.5412632	13.32696159	0.020884333	0.000624188	417.7100558	12.3600247	0.0561152	0.00228105	406.5100665	87.24919854	15.1140103	0.235112128	1.983069434	105.950064	52.75082571	9.257205214	0.240313762	0.018360923
CR05_UPb_12	0.065926466	0.001888846	411.5143696	11.42830224	0.525228398	0.020249891	428.0812683	13.43559582	0.021357523	0.000741405	427.1097073	14.67720422	0.057190723	0.001778252	488.9717398	67.15460259	15.23469292	0.445429793	2.661681593	506.8982694	190.588218	35.28393405	0.09635371	0.598739463
CR05_UPb_13	0.065923906	0.000943824	411.5384627	5.708640399	0.518484501	0.018272559	422.9779592	12.2430715	0.020896546	0.000491376	417.9887488	9.727684076	0.056711828	0.002115451	461.0353233	80.35823803	15.18524939	0.218598995	1.428412995	155.7972521	108.3180242	18.85697031	0.384753978	-0.15918223
CR05_UPb_15	0.065768543	0.001253132	410.5849732	7.569266594	0.507706666	0.020794671	415.9532487	14.13014699	0.020837109	0.000507065	416.8197762	10.04308873	0.055922874	0.002239972	448.8137456	82.08049842	15.23702037	0.279135641	1.711543522	232.6247785	135.3413687	22.70892067	0.167437276	0.237613005
CR05_UPb_15	0.067286939	0.001028307	419.7624662	6.209494073	0.512742483	0.018220115	418.6803798	12.18358822	0.020907969	0.000561483	418.1894435	11.11593366	0.054890204	0.001897381	364.1305971	80.58195168	14.89311009	0.226979216	2.01129379	175.3294241	89.31609574	19.95823794	0.054748998	0.245345849
CR05_UPb_16	0.06638871	0.000985613	414.3415202	5.954758185	0.492901159	0.018049709	407.5327342	12.86989102	0.020773121	0.000530295	415.5309434	10.49607593	0.053989658	0.002059885	339.2475043	83.25940234	15.08715735	0.220826333	1.670057118	163.4762175	98.25090877	22.36602866	0.137495947	0.134617257
CR05_UPb_17	0.067645974	0.00106433	421.9267654	6.428092366	0.526359815	0.018973577	427.6841071	12.63135278	0.020527136	0.000508333	410.6601182	10.06714955	0.055698574	0.001864087	410.4590755	81.05388463	14.79033198	0.222272124	1.489276023	142.6110112	96.73224458	22.64271862	0.013614896	0.258430867
CR05_UPb_18	0.065364171	0.000991926	408.1424744	6.000744709	0.500910339	0.017276677	412.895134	12.19478967	0.020261541	0.000535363	405.3953074	10.60637434	0.05519491	0.0019167	391.6169143	80.4262644	15.32800483	0.232339811	2.165914629	156.4874195	73.66083723	17.38399006	0.150506242	0.121077609
CR05_UPb_18	0.065996831	0.001006297	411.9677531	6.086003511	0.501481747	0.015800696	413.1720626	11.10734742	0.021105093	0.00044652	422.1168418	8.836407174	0.055095895	0.001869509	376.3114843	75.65671892	15.18421077	0.233342601	1.608251564	184.5533891	116.1416776	28.95011452	0.216121962	0.078962314
CR05_UPb_19	0.065342358	0.00094291	408.0153459	5.702555814	0.506099604	0.017762456	414.3168858	12.01208842	0.020728076	0.000521863	414.6378108	10.33144907	0.055818718	0.001982404	401.9658992	81.0164115	15.3267408	0.218173196	2.098225786	201.6405838	98.03894102	24.40223883	0.092574916	0.134914778
CR05_UPb_20	0.06016335	0.002171615	376.5585528	13.17444214	0.473111102	0.016748941	393.0103385	11.4690246	0.020336165	0.000776718	406.8900693	15.37135555	0.056459935	0.00112369	466.4417455	44.48057486	16.71220459	0.564754977	5.167630812	2595.371997	513.2605209	128.3161987	0.195805121	0.829696645
CR05_UPb_23	0.068440014	0.001130468	426.7396638	6.818435953	0.523430667	0.025098489	426.611278	16.76682162	0.020646639	0.000958739	413.0159042	19.01117829	0.057120151	0.002603809	475.479247	103.8684623	14.6230942	0.239540337	1.789478703	433.909141	248.9192851	60.43998912	0.189270075	0.403422661
CR05_UPb_24	0.061781689	0.001321084	386.423011	8.020174423	0.472305237	0.02059359	391.9593258	14.21993449	0.020162275	0.000792556	403.426346	15.69084418	0.055859288	0.002654321	416.6367258	107.3119331	16.22885789	0.347597098	1.793267363	263.6919084	160.4318102	37.50794131	0.325317211	0.021812997
CR05_UPb_24	0.066103673	0.000987158	412.6145477	5.967917986	0.515429828	0.020883203	419.8945124	14.03015172	0.020220931	0.000625097	404.5630578	12.38711955	0.056634231	0.002384321	446.0353216	87.80776472	15.157179	0.225923177	2.011183957	129.644011	66.58585419	16.8106834	0.136679271	0.090521846
CR05_UPb_24	0.06562294	0.000985735	409.7087893	5.963368992	0.497487757	0.022334418	410.1900449	14.39278983	0.020957485	0.000598831	419.1639702	11.85209935	0.054120307	0.002330875	346.224073	99.58840192	15.24185434	0.242592635	2.143725898	150.0036176	72.93451785	18.79556594	0.119112723	0.116432294
CR05_UPb_25	0.065745363	0.001035509	410.465266	6.260391032	0.501949712	0.017734172	413.8050627	11.47759809	0.020389519	0.00050462	407.9387698	9.997103156	0.054975797	0.001992409	384.8059882	83.55590627	15.24270892	0.23779909	1.477851301	159.9107959	113.2512105	28.81051673	0.246547521	0.03946527
CR05_UPb_26	0.066354183	0.000999206	414.1340167	6.040842053	0.503163478	0.021291609	412.0599797	14.53980819	0.020723329	0.000588059	414.5389849	11.64548564	0.054692837	0.002385287	363.057103	101.5368237	15.09400266	0.228403731	1.731494197	171.3626154	105.3032538	26.0379443	0.265724183	-0.05445165
CR05_UPb_26	0.066266811	0.001005058	413.5976673	6.074365792	0.507384852	0.019414503	416.7756372	13.41676986	0.020631424	0.000529452	412.7171154	10.48831277	0.05589677	0.00221799	390.8769994	87.61350684	15.09917274	0.216439861	1.933057221	173.3540475	93.22994767	23.23126401	0.215811993	0.072953421
CR05_UPb_27	0.063120581	0.001270596	394.5572874	7.697039582	0.476870569	0.023399626	395.1575231	16.11123014	0.020002812	0.00097597	400.2596901	19.35292425	0.055702594	0.002882644	414.6210972	116.0001801	15.86744362	0.310424563	2.279488763	326.5906923	149.5538419	33.3805139	0.343324666	0.09703435
CR05_UPb_27	0.066541374	0.001043145	415.2671064	6.306371691	0.499195708	0.02000208	409.9892951	13.49504221	0.021266676	0.000569211	425.3097033	11.26497214	0.053798712	0.002153132	328.2169561	91.9778936	15.01594833	0.256880957	1.626829204	207.3503356	138.2778674	33.36151666	0.161609605	0.14819394
CR05_UPb_28	0.064064608	0.001157173	400.2564209	7.010395004	0.559639766	0.01934938	449.86202	12.49677241	0.025311398	0.000579718	505.193648	11.42312282	0.063021131	0.002265837	673.0822421	77.91502381	15.62117149	0.264508625	1.556828188	230.0706233	154.3429404	43.37171908	0.331071805	0.071891951
CR05_UPb_30	0.065880722	0.001146122	411.2670206	6.930520753	0.497235245	0.024988192	408.1928619	17.02880102	0.020676516	0.000540756	413.6149662	10.70709615	0.054350744	0.002675562	335.8374726	121.419637	15.2077752	0.264288303	1.264770077	199.6718885	165.0179597	36.99421376	0.123951332	0.16589414
CR05_UPb_30	0.06304602	0.001016789	394.0948608	6.167085704	0.495746991	0.018702425	409.3721628	13.36924567	0.020310041	0.00065224	406.3286501	12.91053299	0.056989867	0.002233979	440.462821	89.78925322	15.90181482	0.259343213	1.947282105	139.3665044	73.99119498	16.03878243	0.084817014	0.187592122
CR05_UPb_33	0.06465287	0.000999478	403.8338742	6.050446169	0.532045955	0.023527627	430.617754	15.34998102	0.02121065	0.000525078	424.1905539	10.39121799	0.059260022	0.002640209	512.5783007	96.53937283	15.50129861	0.238737362	1.585339089	144.1688035	93.84029196	20.73214621	0.149736081	0.069998611
CR05_UPb_33	0.065016521	0.00125305	406.0265111	7.582210899	0.490162473	0.027084319	402.9546006	18.26585607	0.021055606	0.000747998	421.1043849	14.79982123	0.054732318	0.003031947	339.3686338	127.3060482	15.42558701	0.296390138	2.310193977	104.9763158	45.37994056	7.545045537	0.244790794	0.04540816
CR05_UPb_34	0.065814233	0.001034367	410.8590123	6.250816229	0.496231974	0.019261056	409.3859892	13.60714601	0.021087011	0.000611504	421.7224534	12.09206389	0.054668145	0.002150981	340.3832608	95.47549691	15.22970658	0.233881764	2.191789946	141.9512878	64.24259625	11.1082566	0.118476479	0.162436964
CR05_UPb_35	0.065593345	0.001011301	409.5248954	6.115364155	0.50055744	0.018316807	410.3920234	12.42458369	0.020511076	0.00057945	412.010361	12.04408744	0.05506133	0.002083531	375.4964964	86.6554069	15.27917936	0.233336338	2.120723893	164.8946292	77.95619696	13.14400714	0.298885262	-0.02649662
CR05_UPb_36	0.066271395	0.001123656	413.6261295	6.795924532	0.497465687	0.020286113	408.6704578	13.6634929	0.021355966	0.000654133	427.059686	12.93762497	0.054062687	0.002212406	353.7533312	87.21117014	15.12228683	0.260634303	2.526320125	179.3597117	71.61910077	12.45096736	0.104280836	0.375343324
CR05_UPb_37	0.063671308	0.000921868	397.8951028	5.587893885	0.488544885	0.016234409	402.5480349	11.05717625	0.020098657	0.000446627	402.1825249	8.850283649	0.055269928	0.001818717	393.3005359	75.42804443	15.7101889	0.240004131	1.608396471	205.6137097	128.219451	21.35918114	0.180950746	0.108261131
CR05_UPb_37	0.0655773	0.00103519	409.4233358	6.263376836	0.51293516	0.021045772	418.1401834	14.1170067	0.019899963	0.000642594	398.196094	12.73250831	0.056184738	0.002386525	402.5669389	103.3727786	15.26575654	0.25230937	2.154577856	109.2596644	51.82461857	8.437864299	0.42189817	-0.16725933
CR05_UPb_38	0.066140423	0.001061878	412.8273181	6.417761611	0.520366146	0.020531602	423.3368893	13.5986219	0.020895677	0.000529385	417.9525757	10.47826646	0.056901987	0.002382192	426.3181131	93.86735565	15.15993994	0.241020014	1.656480374	144.2803101	89.46402241	15.32944174	0.349602413	-0.08564986
CR05_UPb_38	0.066693089	0.001135845	416.1627699	6.864035252	0.529716103	0.022460279	429.4616145	14.62609509	0.021153265	0.000634305	426.6421232	12.55013688	0.057228568	0.002433779	445.7200689	91.70145781	15.04074782	0.25802562	2.084433822	133.3360918	65.30405982	11.64917601	0.178854948	0.117862436
CR05_UPb_39	0.066250589	0.001992069	413.4745077	12.06102731	0.70449652	0.042955776	539.7622118	24.92132427	0.034241589	0.001126885	680.4585685	22.01353535	0.07671938	0.002251458	1107.068626	57.21870643	15.00802011	0.50588533	4.416663108	1439.302651	328.7928122	88.54513885	-0.34919228	0.86280035
CR05_UPb_39	0.0663359	0.001213034	414.0040511	7.331651195	0.545655732	0.015362823	441.3694758	9.972399497	0.021006561	0.000329231	420.1872241	6.518254264	0.058875641	0.001238914	550.9784413	46.41773448	15.07888231	0.296840357	1.13518633	812.6418517	741.2431993	133.6803389	-0.12726473	0.665113734
CR05_UPb_40	0.067490784	0.001047431	421.0050283	6.324418722	0.520220757	0.025024484	423.6797573	16.74164432	0.021770556	0.000511821	435.2901594	10.12188313	0.055323028	0.002553982	382.4524954	110.1657964	14.80003017	0.25097851	1.451315634	168.2408315	120.7268389	22.09064777	-0.01705594	0.243789446
CR05_UPb_40	0.066275377	0.000993096	413.6518746	6.005691942	0.505940476	0.017059558	415.9720429	12.07278941	0.020787993	0.000474305	415.831626	9.394630635	0.055298703	0.001963952	406.030496	73.59527029	15.11924916	0.229914646	1.573843252	155.1321679	102.2359259	18.58700445	0.194300718	0.105183047
CR05_UPb_42	0.065663204	0.00100452	409.9602471	6.080385081	0.518106311	0.018068319	423.0008424	12.12619283	0.019780942	0.00050289	395.8924486	9.965302322	0.057135535	0.001929336	474.4852613	74.88216376	15.24770215	0.239148494	1.767934426	384.2834236	225.8988553	39.14620547	0.083961907	0.2676703
CR05_UPb_44	0.066283645	0.001026564	413.7000313	6.20540834	0.51186437	0.020200467	420.0043314	14.12125447	0.020807512	0.000569974	416.2006162	11.2860324	0.055905508	0.002245557	405.1373825	96.2816676	15.1191315	0.233891328	1.994520796	159.3499096	83.03888716	15.38658242	0.247182287	0.026344188
CR05_UPb_44	0.067546706	0.001104534	421.3256764	6.668805257	0.530948047	0.02092487	430.6098398	13.76701527	0.021050174	0.000593328	421.0036192	11.74313889	0.056384409	0.00219896	433.4704012	89.45101719	14.84221061	0.243515899	2.166817092	138.0654578	65.63774735	12.78306554	0.141024445	0.475940947
CR05_UPb_45	0.067240158	0.001866369	419.450358	11.26647898	0.512237174	0.021666928	419.2142341	14.67861901	0.021535784	0.001115298	430.5866777	22.09017344	0.056382967	0.00157172	457.8114621	63.84440097	14.93726287	0.409326177	3.50855444	1350.364703	395.6136794	75.36866504	-0.02894485	0.636776035
CR05_UPb_45	0.060667804	0.002477517	379.5282025	15.05489913	0.491859821	0.017497733	405.4990671	11.87282494	0.022109567	0.001267088	441.8723768	25.0253086	0.059561054	0.002287984	586.4791951	83.28837265	16.73422972	0.691712283	5.305811405	2804.756818	560.1670337	109.9801651	0.608888209	0.247377686
CR05_UPb_46	0.066400301	0.000983489	414.4090133	5.943947569	0.502659978	0.016720201	412.0896999	11.28468488	0.020694773	0.00041859	413.9971434	8.287626818	0.054836486	0.001877498	362.2203146	78.90585363	15.08789147	0.222958217	1.362224235	207.2707677	157.2719743	30.81806491	0.227343045	0.069740697
CR05_UPb_47	0.066898619	0.001312777	417.411519	7.932487643	0.511760511	0.02491185	418.2013532	16.89497833	0.021086494	0.000658371	421.7387384	13.02982433	0.055678566	0.002779323	394.7164213	121.9566768	14.98625022	0.296349352	1.774728324	192.8379203	112.0882596	21.57920332	0.301268683	0.032089154
CR05_UPb_47	0.065399404	0.001082101	408.3431832	6.543710351	0.504188782	0.015380255	413.3912032	10.39541958	0.020568418	0.000456232	411.4886992	9.033542996	0.056218015	0.00183463	406.5060155	76.56398811	15.33499713	0.250839078	1.746798261	206.9673523	121.9095482	24.15747226	0.370957205	-0.00539467
CR05_UPb_47	0.06576652	0.001054711	410.5691889	6.378875358	0.511491273	0.017978878	417.9577555	12.10194878	0.021239857	0.000623048	424.7479576	12.32548049	0.056215715	0.001924531	421.7617727	77.6159988	15.24318872	0.2448414	2.094954083	110.9695881	52.33129471	9.998108827	0.049493547	0.232595841
CR05_UPb_48	0.063623885	0.001436031	397.586973	8.704651163	0.492410573	0.027746077	404.9486668	18.70645933	0.020034815	0.000541256	400.9254768	10.72299329	0.05638096	0.003155532	422.1124038	124.5042428	15.77219942	0.360763402	1.361509678	138.8091037	100.0535651	17.00713812	0.200776486	0.154189296
CR05_UPb_49	0.066181817	0.000916684	413.0976426	5.543754817	0.529786403	0.012269903	431.0157997	8.134513484	0.020744901	0.000486237	414.9803037	9.628831805	0.058171844	0.00147394	515.8650112	55.87347296	15.10800935	0.221316293	1.621991046	198.2378806	121.5529849	21.99219127	0.379596687	-0.08024447

CR05_UPb_50	0.063820362	0.001091392	398.7984821	6.612772593	0.502647786	0.023137695	412.2202171	15.72140844	0.020857788	0.000813076	417.1868138	16.09813409	0.056771282	0.002537738	447.7571231	103.9849488	15.69448726	0.268161951	2.41316678	138.098958	55.57092022	10.6876192	0.026540269	0.248226236
CR05_UPb_51	0.066246759	0.001194518	413.4798763	7.222555189	0.495314214	0.02355005	407.2463586	15.88705625	0.020743217	0.00065834	414.9421997	13.03750327	0.054291075	0.002533781	346.1642941	107.5860581	15.12432719	0.274412212	1.821651937	164.2864599	87.22964076	15.06502009	0.11805659	0.193339369
CR05_UPb_52	0.06650292	0.001290615	414.9866119	7.783372056	0.507716617	0.017654527	415.4014592	11.77389663	0.020513116	0.000552353	410.3720158	10.93748451	0.055208402	0.002034414	375.2406415	80.1807611	15.11202475	0.278985923	1.546650375	144.2673085	90.91790987	16.71340876	0.325874777	0.18208152
CR05_UPb_56	0.068335418	0.001837994	426.0574741	11.08702488	0.524396928	0.01502423	427.6852767	10.09492263	0.019966722	0.000913474	399.5366842	18.09775364	0.056295868	0.00132621	456.1921416	52.61933566	14.70216516	0.393508089	8.548852375	1165.9002	130.2875266	21.34603568	0.312154551	0.52246175
CR05_UPb_57	0.065195997	0.001030874	407.118662	6.238460069	0.503990522	0.012905528	415.15031	9.194026448	0.020381936	0.000487384	407.7886709	9.654500762	0.05616654	0.001403963	436.6210535	57.21224717	15.37566131	0.243987625	1.630526684	180.4611337	107.2413845	18.89556506	0.081186529	0.312173817
CR05_UPb_57	0.066151746	0.000947796	412.910614	5.730984962	0.483438998	0.01562291	399.176516	10.69592397	0.020339104	0.00048258	406.9399741	9.560907796	0.052824255	0.001546853	297.6742866	71.12664596	15.13971168	0.217997028	2.216082763	187.3690095	80.71086467	14.10590201	0.012063599	0.316007732
CR05_UPb_57	0.063863877	0.001235356	399.0343265	7.484225988	0.518378729	0.011330941	424.9885162	7.113243433	0.021215304	0.000361023	424.3154901	7.146151054	0.058679604	0.000723035	550.3686182	27.03079133	15.67730683	0.322951579	2.905624206	1460.884299	479.8031866	86.53280345	0.006504954	0.805696326
CR05_UPb_58	0.058579665	0.000994932	366.9580791	6.057595452	0.852306832	0.029364453	623.8744286	16.09637534	0.04284003	0.001449468	847.59601	28.1217054	0.105143334	0.003764192	1692.231346	67.26715699	17.0724419	0.30875333	1.630795947	222.5028658	130.0731621	48.06008178	0.313772929	0.068982722
CR05_UPb_59	0.065401396	0.001004266	408.3678108	6.076569725	0.520592625	0.018035764	424.1773136	12.01495957	0.020430929	0.000506637	408.7591561	10.03123712	0.057819623	0.002076283	497.6022336	77.27969562	15.31929681	0.236277015	1.767404679	132.3214982	72.25055459	12.44314134	0.311639186	-0.02300158
CR05_UPb_59	0.066248852	0.000991034	413.4904336	5.989117206	0.503435467	0.02010316	413.9671642	12.98222409	0.021056557	0.000548093	421.1297075	10.84657763	0.055444415	0.002173876	401.1057379	83.91593142	15.12596057	0.22445181	1.739103095	140.0856016	77.34051632	13.84685293	0.141613627	0.092697559
CR05_UPb_59	0.066372599	0.001027297	414.2342916	6.208924555	0.5056798	0.017597846	413.8986431	11.84058156	0.020887122	0.00056741	417.7711521	11.2339644	0.055564398	0.001841463	406.7796818	71.74112693	15.10298411	0.23329643	1.784479299	143.1992997	77.03784592	13.86308766	0.029083599	0.274029646
CR05_UPb_60	0.06516322	0.001799748	406.9212646	10.88429161	0.496066555	0.013435074	408.8833253	9.092083885	0.020756169	0.000399407	415.2309507	7.907055317	0.055896553	0.00134326	443.9057585	53.7155196	15.38142464	0.416911834	1.764565044	3053.205193	1670.224233	276.456398	0.376999546	0.62647608
CR05_UPb_60	0.06310546	0.001381707	394.460539	8.374575222	0.475343644	0.011478294	394.6902015	7.857886958	0.020128861	0.000461186	402.8005274	9.139258283	0.055059479	0.000715893	412.0460059	29.23644141	15.87869859	0.344321376	2.420001341	2767.468554	1230.284749	200.8733667	-0.0452728	0.778835983
CR05_UPb_62	0.065386843	0.001200835	408.2736609	7.262314914	0.482353239	0.019926764	398.5736162	13.75969556	0.020368559	0.000867404	407.47856	17.17685108	0.053714148	0.002377548	346.7019291	92.24157345	15.32991859	0.278695149	2.427129722	123.3733705	48.38693016	8.31476909	0.399846131	-0.07610825
CR05_UPb_63	0.064741737	0.001172355	404.3839995	7.097899722	0.538615325	0.025908928	436.6149101	17.05163674	0.019791679	0.000593054	396.1097583	11.75676928	0.060689501	0.002969195	605.475521	105.2203369	15.46440953	0.280300253	1.355901258	237.0117434	166.7215203	27.25527336	0.217168513	0.097913557
CR05_UPb_64	0.064422904	0.001073887	402.4492986	6.504436225	0.50828615	0.021172301	419.6487609	12.69962437	0.019846206	0.000619658	397.1741809	12.27914793	0.058200195	0.002317966	532.7709332	78.4628948	15.54662934	0.261603202	1.365955759	219.0296577	152.7921882	25.86633602	-0.13008271	0.433274423
CR05_UPb_65	0.052595803	0.002027398	330.3598861	12.43502898	0.556729617	0.024961831	448.4281265	16.55678743	0.02250047	0.00096181	449.6853881	19.03641476	0.078871249	0.002111549	1161.446056	52.64131206	19.21512689	0.802298095	2.178845615	1395.839236	636.0251197	119.6833405	0.292483368	0.691213037
CR05_UPb_66	0.066218223	0.000964886	413.3122115	5.831838379	0.50542408	0.017312444	413.9854877	11.71364276	0.020380099	0.000528885	407.7454648	10.47491203	0.055380993	0.001928141	385.1282582	82.85246605	15.10251013	0.230314771	1.803267408	177.879291	94.70695955	17.16806667	0.23305677	0.033618167
CR05_UPb_66	0.065885986	0.001020271	411.3024034	6.168391658	0.487131724	0.016853212	401.9143192	11.61912875	0.020475273	0.000543636	409.6376724	10.76695717	0.0538898	0.001856029	366.3978615	81.7279733	15.20205103	0.233895717	1.447635703	210.1112484	138.9140202	24.88095967	0.046371333	0.22969642
G_NIST610																								
NIST610-1	0.239848684	0.003655488	1385.69998	18.93027411	29.5045298	0.23662735	3469.888517	7.868146785	0.513322322	0.008116695	8372.677362	108.2987346	0.907599468	0.005160896	4870.042804	0	4.176353171	0.061496881	0.943343402	220.1105431	229.59534	1204.192903	0.638599996	0.771797327
NIST610-2	0.230086509	0.003596205	1334.650084	18.78842702	28.39868679	0.267273129	3431.917743	9.115629259	0.489883274	0.00767327	8056.906059	103.9115334	0.906082448	0.004257071			4.35757255	0.066171394	0.932655736	289.0629033	305.9393769	1525.223588	0.594717124	0.896530499
NIST610-3	0.231883009	0.003924114	1343.936598	20.34195881	28.57135868	0.289097507	3437.707195	9.769510639	0.491979802	0.00793668	8084.911966	107.1146088	0.904681669	0.005104223	4988.225458	4.23337967	4.327425829	0.067515883	0.92850108	301.0092221	321.0585459	1564.390216	0.075543261	0.992312597
NIST610-4	0.231155926	0.004475912	1339.893051	22.92809251	28.94499774	0.356798643	3449.998326	11.29981686	0.494943633	0.008076698	8124.838233	108.803494	0.909505827	0.005126081	4995.85438	0	4.347747744	0.071242216	0.926513802	337.8103256	370.7086908	1730.565854	0.168676257	0.99465352
NIST610-5	0.227773377	0.003514552	1322.544183	18.3868671	28.64972261	0.287201116	3440.436478	9.695511256	0.492562031	0.008061699	8102.079502	113.3792795	0.910230786	0.005044236	4997.769781	0	4.40088844	0.065599759	0.926364893	332.2174848	362.2367757	1673.223682	0.350602845	0.840937543
NIST610-6	0.228337472	0.004282479	1325.178167	22.4496945	28.81044338	0.346368221	3449.585958	9.301394378	0.495580735	0.008059889	8133.484122	108.985326	0.912806839	0.004947276	4900.377538	110.623353	4.379979762	0.064717236	0.931867827	341.0932524	353.2675574	1588.583527	0.544782839	0.989475932
NIST610-7	0.23008288	0.003711198	1334.599281	19.38429825	28.96247429	0.259419998	3451.329862	8.753655597	0.499274191	0.007969284	8183.683288	106.9211266	0.909656437	0.003985745			4.358818429	0.068181055	0.929717023	349.3265422	370.1745969	1687.698308	0.205292883	0.985263303
NIST610-8	0.230952705	0.00426107	1338.923414	22.0556561	29.01680128	0.303412312	3452.831894	10.01740414	0.495451293	0.007998309	8131.877132	107.695927	0.911416908	0.005010192	4942.151938	85.47635723	4.349668082	0.072314072	0.928351105	302.1137955	316.7808905	1428.29242	0.541460194	0.985171922
NIST610-9	0.226674553	0.003375275	1316.820537	17.6792552	28.75624292	0.269098044	3444.235845	9.055451651	0.493219817	0.00796638	8101.747314	107.2093388	0.911303316	0.004739576	4984.899863	0	4.420438758	0.063714779	0.925601804	311.0029595	328.6878088	1485.064981	0.259800868	0.820422277
NIST610-10	0.22918939	0.003721762	1329.894123	19.4320293	28.82163782	0.275237478	3447.783323	8.958241318	0.494850966	0.007825436	8124.035952	105.4704	0.911267403	0.004797845	4982.055416	0	4.37655754	0.068147567	0.927192111	279.9711993	293.3558596	1362.315648	0.267472463	0.818392515
NIST610-11	0.231890913	0.00408001	1343.913059	21.10163143	29.2246389	0.329982908	3459.638348	10.69084171	0.501484119	0.008169721	8213.081668	108.8298397	0.912875289	0.005249369			4.329265236	0.068843698	0.926862443	293.5254153	307.8006098	1455.336416	0.999793139	0.94983406
NIST610-12	0.226837457	0.003823553	1317.502575	19.95138937	28.69048882	0.282743286	3441.878586	9.411636389	0.492744134	0.008024483	8095.158773	107.7120333	0.916402878	0.008932153			4.410872045	0.077983227	0.927261292	368.5777882	406.419034	1926.999298	0.825335526	0.484049833
NIST610-13	0.227399749	0.003473538	1320.59271	18.18311665	28.75202171	0.254724011	3444.174118	8.594126061	0.497318912	0.007771269	8157.548605	104.5220333	0.914144155	0.004051198			4.407767557	0.065257386	0.929756937	352.3901879	383.7988962	1798.783522	0.112211554	0.835508196
NIST610-14	0.227027016	0.003572746	1318.59634	18.70377715	28.53911801	0.285123207	3436.62863	9.720963133	0.49448942	0.008159946	8118.562712	109.7119718	0.907128419	0.004843006			4.416505979	0.067204265	0.930297037	339.6712347	365.15746	1589.474996	-0.00206094	0.780383343
NIST610-15	0.228156983	0.003747116	1324.464411	19.5373899	28.64432755	0.262627994	3440.42584	8.837072694	0.493295115	0.007820604	8102.962198	105.442406	0.908893543	0.004313855	4953.603596	4.426100889	4.3967022	0.06784037	0.924488358	340.6396709	369.2051181	1628.060689	0.341823374	0.849093748
NIST610-16	0.226447456	0.003870877	1315.428637	20.17712745	28.53230012	0.362799478	3435.513372	13.08435738	0.495024816	0.007958835	8126.158106	106.9925492	0.915856071	0.004383137	4470.752862	0	4.432057376	0.070469009	0.927197487	403.4884117	447.9644785	2229.882498	0.153895979	0.987174996
NIST610-17	0.227995609	0.00380547	1323.593354	19.83397628	28.76924078	0.254430669	3444.761009	8.543069582	0.49590552	0.007731284	8138.484568	103.9399859	0.908956722	0.004450269	4985.95229	10.29386738	4.40066619	0.068677097	0.927137239	396.4316456	439.2929288	2129.400149	0.434491029	0.89391514
NIST610-18	0.226518561	0.003704026	1315.873208	19.32638605	28.50680414	0.294250867	3435.449411	9.977325271	0.493485026	0.007694415	8105.77201	103.9050482	0.909033475	0.004616836			4.418650944	0.072336917	0.926815865	394.1462385	438.9521221	2132.954278	0.015780735	0.868657044
NIST610-19	0.228460063	0.003646094	1326.101125	19.05845339	28.65717188	0.273169465	3440.811754	9.157471631	0.498925843	0.007925594	8179.010708	106.6049858	0.910174094	0.004128753			4.382437571	0.070175326	0.929883366	386.8775239	428.3726672	2088.136597	0.200580026	0.764590455
NIST610-20	0.227975643	0.003660523	1323.548823	19.10145649	28.44814111	0.25614361	3433.716964	8.755996985	0.492910831	0.00787712	8107.343387	100.7141272	0.911227035	0.004663914			4.398920907	0.066749001	0.925418819	315.4404669	334.951522	1606.477222	0.194769806	0.765083009
NIST610-21	0.227438056	0.00364972	1320.730674	19.08722332	28.28061848	0.240356049	3428.040559	8.232523048	0.493597752	0.007775224	8107.176382	105.0027333	0.909748898	0.004497329			4.402035338	0.071002893	0.928873351	304.1629923	320.2615527	1542.871768	0.385220212	0.677361187
NIST610-22	0.228666231	0.003629435	1327.192988	18.97870368	28.3266242	0.250110204	3429.5744	8.57730964	0.494049852	0.007900733	8113.096166	106.9656796	0.907347462	0.003737636	4992.150347	0	4.385094391	0.06743117	0.928135837	284.7566665	298.1932872	1456.153593	0.396239757	0.840574061
Z_91500																								
91500-1	0.178711636	0.002858361	1059.712068	15.67139356	1.839839445	0.045701971	1059.068164	15.8435025	0.052217371	0.001526498	1028.380112	29.31770745	0.075615102	0.001795717	1071.938627	50.99516554	5.612898668	0.093649207	2.642881709	79.94249432	29.93402548	14.91529015	0.310054773	0.323242407
91500-2	0.179281101	0.002638341	1062.897183	14.400576	1.81510432	0.039964325	1048.312064	14.53026852	0.053774122	0.001317969	1058.4021	25.29010969	0.074124501	0.001688709	1026.495424	46.59923383	5.588832474	0.08097068	2.638676894	80.0060693	30.08912943	15.20593905	0.401140174	0.105718093
91500-3	0.178805117	0.002565947	1060.317607	14.03806776	1.845992825	0.043357319	1059.08983	15.46186236	0.05343105	0.001310328	1051.82907	25.14165326	0.075246211	0.001653547	1072.491274	45.36726393	5.602265804	0.081106843	2.657180432	79.90306749	29.92088112	14.88366094	0.065785028	0.297380865
91500-4	0.179930276	0.002585336	1066.462967	14.12723066	1.854030939	0.042840174	1061.972058	15.26860088	0.053769742	0.001375904	1058.282068	26.40722977	0.074818208	0.001834989	1042.675621	49.77395128	5.567464269	0.080506486	2.671298747	79.67902292	29.94480581	14.96641137	0.314302906	0.111062754
91500-5	0.179170182	0.002521949	1062.328976	13.78325655	1.85965214	0.040998006	1064.296682	14.60349141	0.054351718	0.001305316	1069.496436	25.02277901	0.075221917	0.001690046	1057.202682	45.60152266	5.589590953	0.07865572	2.656421463	80.44459143	30.12176289	15.06441071	0.240932911	0.130974931
91500-6	0.179676711	0.002671665	1065.050041	14.61277996	1.857883953	0.047219333	1062.709093	16.87961189	0.05430946	0.001487474	1068.561534	28.5082211	0.074314252	0.002001875	1024.491319	55.47734199	5.5775097	0.084280293	2.68825536	80.48785819	30.1576483	15.05067617	0.349447431	0.183413043
91500-7	0.179229348	0.002592366	1062.629381	14.17529495	1.854708545	0.043812473	1064.57033	16.20644914	0.053889905	0.001548013	1060.476527	29.67676491	0.074404771	0.001783265	1040.221776	51.87704819	5.589535374	0.081394435	2.775053988	79.3871945	29.74945505	14.88934953	0.32061828	0.073569858
91500-8	0.178434224	0.002560307	1058.289648	14.01432151	1.88261427	0.043389332	1072.123311	15.34914409	0.054422251	0.001299656	1070.849547	24.91594031	0.076333919	0.001788985	1085.349499	46.9734927	5.613924607	0.081552031	2.643484373	80.99263538	30.31728483	15.1493275	0.133770916	0.200047817
91500-9	0.178767142	0.002581093	1060.105621	14.10879431	1.869160796	0.042403956	1067.483476	15.03831478	0.053854751	0.001253272	1059.991987	24.04227338	0.075517786	0.001717278	1070.940066	48.49143433	5.603695374	0.080818341	2.672744023	78.83092016	29.59306593	14.82924548	0.32583358	0.145524937
91500-10	0.178545722	0.002528152	1058.909398	13.82270242	1.841919883	0.039987132	1058.020725	14.46320961	0.05305941	0.001266865	1044.720488	24.31906842	0.074372864	0.00159388	1040.739202	47.00903933	5.609539836	0.07925357	2.63746571	81.39145452	30.34849934	15.11453814	0.27862744	0.067548699
91500-11	0.180486403	0.002531684	1069.519305	13.84268571	1.840784566	0.047294631	1056.632277	16.88489676	0.052934921	0.001440336	1042.220446	27.6740488	0.073453895	0.001765283	1021.020818	48.71175933	5.548975531	0.079406041	2.633726011	78.31241645	29.51767418	14.82330913	0.181570705	0.28544682
91500-12	0.177844481	0.002467642	1055.086914	13.49951478	1.848477205	0.044359304	1059.847262	15.67385355	0.053993567	0.001426405	1062.547376	27.33767902	0.075075843	0.001838742	1049.801877	49.80204856	5.630623736	0.077988178	2.66579163	79.91421234	29.97430312	14.99281074	0.287557087	-0.00264193
91500-13	0.180482601	0.002559913	1069.490524	13.97376864	1.854423211	0.037979343	1062.723436	13.6673817	0.054611203	0.001424319	1074.392258	27.30973171	0.074415891	0.001608596	1035.987213	44.82827022	5.542141091	0.082473069	2.642594477	80.31892988	30.12872857	15.0612995	0.167803854	0.128316254
91500-14	0.179076898	0.002436575	1061.840113	13.32048617	1.858100236	0.04016965	1065.866775	14.85202349	0.05468512	0.001402119	1075.821367	26.81857272	0.075237917	0.001700107	1057.244275	45.27851778	5.58240603	0.082727386	2.667911351	79.94567538	29.96596804	14.99769105	-0.02903776	0.336240069
91500-15	0.178520405	0.002671994	1058.726087	14.62738738	1.840289341	0.045483242	1056.656647	16.47342295	0.05336955	0.001352458	1053.935151	24.86801284	0.074741776	0.00191913	1053.992527	53.45669306	5.613931691	0.085408019	2.677334491	79.95962625	29.99918212	14.97855359	0.1733544	0.156506034
91500-16	0.179334307	0.00253011	1063.226629	13.82957624	1.864478961	0.050996523	1064.703276	18.12496101	0.053400211	0.001576688	1051.077435	30.24153787	0.075187012	0.002038175	1049.248152	55.27497142	5.584449665	0.078979783	2.723951496	79.86547337	29.95773185	14.96306445	0.12362671	0.214496441
91500-17	0.179997147	0.002656612	1066.806873	14.50257957	1.861724754	0.049294265	1063.795402	17.50397595	0.055214198	0.001384676	1085.971206	26.52566311	0.074837556	0.002021325	1047.132681	52.86835527	5.557688579	0.076623305	2.701603282	80.19280911	30.06813988	15.05735173	0.126530542	0.206877803
91500-18	0.178469902	0.002577248	1058.477501	14.09031257	1.829573546	0.045585222	1052.811941	16.32081679	0.05302222	0.001418894	1043.907708	27.22921141	0.074341496	0.001830761	1029.562325	50.12339948	5.613236292	0.081005569	2.664780191	79.63800519	29.91407064	14.94350405	0.168866521	0.303573308
91500-19	0.179593347	0.002498807	1064.647845	13.64237827	1.853376616	0.041974201	1061.94108	14.71939623	0.054259953	0.001323957	1067.720436	25.37293986	0.074585273	0.001590167	1048.06312	44.5972002	5.575888526	0.076913437	2.63947454	80.46825875	30.13980286	15.07274306	-0.02097837	0.421204955
91500-20	0.17870157	0.002592022	1059.744777	14.17506351	1.847829054	0.045527648	1059.462258	16.30337007	0.053057883	0.00133157	1044.655915	25.57589765	0.075328095	0.001837177	1063.782253	51.12393757	5.605977647	0.081700176	2.650823004	80.65829953	30.31681926	15.04565223	0.256239587	0.05800228
91500-21	0.178927585	0.002675306	1060.953272	14.63514727	1.83389587	0.042239589	1057.052031	15.89178787	0.054234238	0.001376934	1067.194988	26.37826014	0.075189652	0.001965795	1049.411167	54.50978678	5.601034765	0.084755981	2.66255536	78.41421908	29.35231954	14.88302505	0.454595163	-0.01745892
91500-22	0.179843835	0.002720763	1065.950412	14.84544163	1.848373028	0.041146849	1062.517472	14.1274841	0.05241713	0.001313366	1032.356291	25.20227317	0.075239684	0.001769027	1063.588866	45.26904961	5.56473499	0.086846095	2.652658142	81.01386489	30.42251393	15.08099825	0.312715695	0.018653767
Z_Plesovice																								
PLE-1	0.053619522	0.000962675	336.6662282	5.891793202	0.397960155	0.009537424	339.5809497	6.845115552	0.017523407	0.000862443	350.9530652	16.92348664	0.057065063	0.004740374	352.1360014	47.11232443	18.74015092	0.350336774	10.03649176	705.3523356	71.38368544	11.81025264	0.990864227	-0.38190194
PLE-2	0.054149957	0.000940807	339.9148884	5.746927049	0.401696324	0.010866346	342.163926	7.499108594	0.019073588	0.002866579	380.0431346	53.90152936	0.056848209	0.004221949	356.1029309	47.60832068	18.54126582	0.314821619	10.08336417	712.8934065	72.63219258	11.87142554	0.902240464	-0.21756918
PLE-3	0.054605602	0.000897232	342.7066857	5.482379798	0.402106196	0.013474037	342.1259274	8.928570151	0.018445885	0.002128529	368.392577	40.62101936	0.053714377	0.001917002	307.0920233	47.38049719	18.33904367	0.315207943	9.915085863	708.4673854	72.79096311	11.78686614	0.243783744	0.073464708
PLE-4	0.054301831	0.000973422	340.8391721	5.952948044	0.407637614	0.013164352	346.1486635	8.949892113	0.018740432	0.00199979	374.3660982	38.32352428	0.054227993	0.001582755	340.1314278	43.8523978	18.41484316	0.326113174	10.04978465	568.3610846	55.03793464	8.937976308	0.166860039	0.189372422
PLE-5	0.054767532	0.000904668	343.695942	5.525413445	0.413477506	0.007915494	350.9807606	5.660291791	0.017173961	0.000552161	344.1159061	10.96466197	0.054477108	0.000975397	377.2594691	40.31092537	18.31997013	0.298771161	10.04487661	544.4971494	52.44102008	8.177731783	0.189805582	0.409933829
PLE-6	0.053598391	0.000953683	336.5389991	5.830349617	0.407260285	0.013287673	345.847906	9.158653353	0.019375332	0.003078088	385.7653824	57.85987373	0.056490975	0.003585894	377.3697713	60.45887603	18.73868653	0.328527842	10.11948998	811.9639129	90.2444176	16.06753195	0.944521119	-0.06738697
PLE-7	0.054540193	0.00095216	342.2997621	5.812696918	0.410631312	0.00829643	348.8944257	5.935769792	0.017352423	0.000548542	347.6632354	10.86890588	0.054325538	0.000950116	371.1957051	40.39447615	18.40902515	0.310134366	10.06913289	797.5299387	90.49992288	15.03997459	-0.17897335	0.554358249
PLE-8	0.054369618	0.000992275	341.2502412	6.062194779	0.427417651	0.013699437	357.2298889	6.783120953	0.021918048	0.001746674	437.5248178	33.54328234	0.056847111	0.001850586	440.9161383	43.28852871	18.39506383	0.323623394	9.813321269	637.4595162	67.24744922	13.60817443	0.399507276	-0.03424224
PLE-9	0.054238176	0.000916461	340.457407	5.599419368	0.398069908	0.009033833	339.7139025	6.547363051	0.017423049	0.001027101	348.8845707	20.10808639	0.053556448	0.001377626	316.0063506	46.49893383	18.4356305	0.332743916	10.22770043	619.8907295	63.00608906	10.72449249	-0.36844326	0.596507862
PLE-10	0.053652841	0.000985211	336.8669702	6.023871296	0.393523015	0.00825663	336.4904829	6.010569793	0.01774736	0.001030526	355.325949	20.12760976	0.053551203	0.00138539	330.5679991	48.54604306	18.73132823	0.340042538	10.08353556	904.8696864	93.1465403	16.47399385	0.373265618	-0.04604951
PLE-11	0.054273601	0.000915918	340.6744293	5.5975715	0.400167516	0.008658416	341.2882733	6.242411646	0.017694781	0.000626007	354.4424667	12.38485601	0.053319454	0.000965413	328.6136952	40.53105066	18.45522019	0.293485423	10.04844586	955.467796	100.3755278	17.73463616	-0.32005616	0.648470698
PLE-12	0.054211691	0.000917162	340.2959591	5.604398035	0.401579329	0.007929377	342.3941604	5.710155091	0.017037786	0.000557138	341.4088729	11.06096065	0.053437484	0.000912864	342.3099646	39.96338999	18.47601646	0.324594075	9.997430016	575.9271704	55.78739847	8.288803834	0.048558279	0.552459839
PLE-13	0.05410801	0.000944153	339.657861	5.7686061	0.412866928	0.009290401	350.3939434	6.631458319	0.0168334	0.000480396	337.3650044	9.544586446	0.055114133	0.001036465	401.8713094	42.72684835	18.52217314	0.328600798	10.01542684	558.2961643	53.81904172	7.872054046	-0.11420455	0.603768872

PLE-14	0.053057835	0.000914908	333.2356526	5.602253217	0.390222555	0.007025404	334.2150499	5.124261723	0.017780723	0.000544525	356.1734778	10.8051493	0.053526849	0.00092618	338.6211818	39.05364624	18.87584149	0.310520578	9.992418574	733.1834397	73.5240651	13.29776122	0.031876121	0.590441155
PLE-15	0.05374106	0.000832891	337.4272882	5.093052674	0.399691405	0.008659563	340.9443123	6.22796231	0.017327186	0.000596223	347.1484764	11.81732858	0.053715228	0.001082841	342.0551251	45.70903694	18.58504085	0.319935575	10.07958097	738.1975516	73.56851583	13.60292471	-0.21653774	0.640476236
PLE-16	0.053683122	0.001010982	337.0499134	6.17617912	0.424203475	0.010583219	358.3714362	7.497178798	0.02207235	0.001113987	441.0066761	22.00589395	0.057047387	0.001328683	472.2720131	51.31464049	18.63904978	0.368443432	9.886532825	708.0009761	72.47506998	13.99006343	0.148515099	0.524895741
PLE-17	0.052863278	0.001096221	332.0172196	6.707909842	0.401537155	0.014573545	341.5319088	9.743214987	0.018681174	0.002099769	373.0962274	40.20238455	0.054659658	0.001589246	371.3275419	55.06738537	18.99664942	0.374447151	10.19124115	711.4211669	69.62578226	10.53157003	-0.01733325	0.428893835
PLE-18	0.053748112	0.00097763	337.4514763	5.971384882	0.39483326	0.008523134	337.4205518	6.201129981	0.016841814	0.000547558	337.5155325	10.86286089	0.053331259	0.000996738	327.5936272	43.51079217	18.69129142	0.325122299	9.832239042	722.7059664	74.58000722	12.27765536	-0.32047714	0.715702837
PLE-19	0.066138525	0.001046702	412.81404	6.326589121	0.487256659	0.012291861	403.4254213	8.034875516	0.020560639	0.000769602	411.2358127	15.23952544	0.053577473	0.001276219	339.3012074	51.45218916	15.16278155	0.239230497	9.505877268	309.1928458	33.1851722	6.574250207	0.225586662	0.43612521
PLE-20	0.054771738	0.001019552	343.7048241	6.219494399	0.405171353	0.012328205	347.8698324	6.596491548	0.018504029	0.002050843	369.6042264	39.39686731	0.057281951	0.003371503	380.8537697	47.40894004	18.29919677	0.349557749	10.06566213	673.3556696	65.3369956	10.441277	-0.97444761	0.594287962
PLE-21	0.053539965	0.000864104	336.1933448	5.28987814	0.397690544	0.007261941	339.6382591	5.250131926	0.017220996	0.00045885	345.0743009	9.119692973	0.054111182	0.000840199	365.2006429	35.55159115	18.70573329	0.321940451	10.00384233	624.29516	61.44945263	9.765515341	0.152640377	0.523837262
PLE-22	0.053639527	0.000835191	336.8059292	5.108218321	0.390905889	0.007675253	334.6486767	5.600444377	0.017513932	0.000517745	350.8803695	10.27990202	0.053314364	0.001025677	333.7524959	42.39223023	18.65094327	0.266539158	10.25866887	569.2757547	54.97611631	8.848131899	0.171733661	0.359322346
Z_Temora2																								
TEM-1	0.066955207	0.000938491	417.7668278	5.672192417	0.532439031	0.037320407	427.7456518	20.25553173	0.021240276	0.001099133	424.5521513	21.33097197	0.058588448	0.003847577	447.8129849	70.16050475	14.87179146	0.304128935	1.809762352	209.1140728	116.0272175	22.3474884	0.387337001	0.514778122
TEM-2	0.067081657	0.000945084	418.530029	5.708680403	0.547483649	0.033140413	433.1083372	13.21861285	0.021777661	0.001644448	434.8424901	31.56136543	0.065540858	0.010607935	477.3840642	54.8071948	14.93006583	0.210506486	1.698608177	359.519916	213.4722538	41.47272277	0.997544419	-0.14626845
TEM-3	0.158840349	0.008785953	946.054373	46.96133161	11.56214063	0.850593223	2524.716438	57.27531566	0.106685636	0.00503823	2044.122626	90.42243652	0.536022131	0.022961637	4290.852958	62.54104466	6.649782857	0.285855784	0.401778716	5.739855903	14.46440137	13.76407663	-0.06332243	0.981786564
TEM-4	0.06654582	0.001115863	415.2658434	6.726017932	0.557239862	0.066956897	425.7608971	16.78181774	0.022976775	0.003098974	456.986561	57.87035515	0.064128976	0.009830308	436.9353129	94.53127237	14.94675537	0.351063582	2.980620091	122.5592459	41.10641821	8.237197512	0.77729259	0.744020908
TEM-5	0.066454255	0.000965906	414.7348763	5.836115124	0.533613855	0.021304169	431.9677469	13.122209	0.021266682	0.000718898	425.2351766	14.12463518	0.058131387	0.002491727	475.692187	84.23483961	15.07576015	0.217189898	1.900210578	148.8659308	76.9048209	14.82662655	-0.61464782	0.780658445
TEM-6	0.066783536	0.001091164	416.7073957	6.593369091	0.529355771	0.033622373	426.5537549	18.79840066	0.02131414	0.000905511	426.1033975	17.74877523	0.057300604	0.003528952	382.0673972	94.96736516	15.02256106	0.246932607	1.962820439	128.9594323	70.70927485	14.23000314	-0.68645684	0.89652937
TEM-7	0.066491216	0.001209857	414.9207705	7.275613818	0.598025373	0.0712583	451.1250359	16.51806198	0.023339153	0.002725134	464.637547	51.39691802	0.061589977	0.002913371	590.1624386	91.18167226	15.10488268	0.246668346	2.863273511	130.6546005	50.34514764	11.557647	-0.81510806	0.955445711
TEM-8	0.066784738	0.00103927	416.7222423	6.267511178	0.559355057	0.059447805	430.1869994	15.56556836	0.023782072	0.003155454	472.8424964	58.78458754	0.057732951	0.002749939	452.7496095	88.31528256	15.01110615	0.22239627	3.075047362	169.8069278	55.58574912	11.68474685	-0.76797709	0.890375451
TEM-9	0.067007955	0.001004771	418.0762132	6.07203213	0.538590498	0.025361746	429.8217097	11.63451589	0.021989552	0.000839544	439.4918196	16.55894865	0.057044106	0.00190739	452.8439325	70.16512132	14.95707465	0.227982692	4.303285442	167.5414624	39.69228787	8.278916174	-0.45329684	0.634132901
TEM-10	0.065941995	0.000968874	411.6372665	5.858950718	0.509551675	0.01504845	416.919866	10.07459867	0.020917019	0.000448383	418.39011	8.87182949	0.055678956	0.001578884	417.6863345	68.90445792	15.1940493	0.223358161	1.922953664	206.2323013	107.2159134	21.57532553	0.015189413	0.199638983
TEM-11	0.065718172	0.001014325	410.2769635	6.13714023	0.515689578	0.019408162	420.2243037	13.02463784	0.02099267	0.000582967	419.8549905	11.53568717	0.057082381	0.002345616	443.5517138	91.15398458	15.25467237	0.239215606	1.935937489	140.266659	74.25100957	15.07835076	0.300481682	-0.09036798
TEM-12	0.065895912	0.001054856	411.3454608	6.361915145	0.549885747	0.049762781	427.7145862	14.42193177	0.021457129	0.001367609	428.6859799	26.42977597	0.060013413	0.004667058	476.5267206	78.54162909	15.21795409	0.228462713	1.774390351	123.2541332	68.21200041	13.42420757	-0.82418301	0.947138934
TEM-13	0.065242738	0.001138615	407.3804786	6.866436307	0.605456941	0.127297877	433.8599172	24.74778388	0.025646024	0.00699846	501.8373797	122.2995996	0.060067643	0.004925203	468.8651293	83.26609233	15.3860349	0.247147525	3.329070098	122.2504376	35.8593223	7.187869377	-0.82144607	0.941416068
TEM-14	0.065045967	0.001097437	406.1955898	6.645827044	0.491921737	0.023843074	403.0928838	15.82370596	0.020757751	0.00082437	410.2559529	12.61260372	0.054881621	0.002744602	329.0865797	110.5046759	15.39838484	0.252046618	1.883571903	106.1586497	56.49670776	11.1243938	-0.38882993	0.636109348
TEM-15	0.067059201	0.001007196	418.386088	6.085829356	0.514382047	0.018883853	416.8740405	11.20691333	0.02201745	0.000762727	440.075735	15.06355439	0.055034077	0.001864657	367.4506817	77.76453036	14.92415582	0.235731649	3.984301823	155.5075204	39.10336949	8.519723122	-0.08395421	0.262762351
TEM-16	0.06723273	0.000898218	419.4493879	5.427228863	0.523563535	0.013028665	426.6236737	8.721281073	0.020581672	0.000434263	411.7523414	8.602857884	0.056191399	0.001329906	444.6492042	56.40201127	14.88872127	0.201392771	1.847913521	336.4165256	187.3580804	33.59162546	0.213442293	0.138589194
TEM-17	0.067857738	0.001324173	423.1562602	7.996172152	0.528600959	0.008814424	430.4570203	5.830677138	0.020964528	0.000422948	419.335307	8.369858819	0.056124887	0.000678274	451.2470608	24.67880557	14.78094615	0.276395149	1.444030936	1706.016966	1219.263512	220.293832	0.725493683	0.048343381
TEM-18	0.065767578	0.000958301	410.5826426	5.796188836	0.534244487	0.032365624	423.6929702	10.67095383	0.021453416	0.001672542	428.3863629	32.32934527	0.06220847	0.006808039	490.6131114	59.78179923	15.23427976	0.223438349	3.094462406	206.8544265	67.81608795	13.74321605	0.843644646	0.153999069
TEM-19	0.065855532	0.001079765	411.098439	6.531028307	0.516983111	0.019031848	421.230703	12.47786936	0.020409515	0.000642767	408.2886487	12.72405871	0.0573238	0.00222914	448.3687707	84.39422796	15.23410947	0.25181082	2.998296952	114.1322917	38.38178992	7.51676178	0.25170112	0.227666166
TEM-20	0.064731093	0.001009356	404.3022701	6.109318975	0.520032895	0.040390164	411.4145484	12.18512949	0.021777588	0.001820892	434.7026386	34.81882009	0.058150738	0.003950475	436.0644082	59.03342058	15.45834502	0.225527028	2.942750481	534.2413557	175.7640682	33.79585872	0.08577919	0.143856203
TEM-21	0.06549403	0.000868519	408.939702	5.254748309	0.499977707	0.009842722	411.1500815	6.629380464	0.021006533	0.000522088	420.145042	10.31554055	0.055544289	0.001124122	417.9543438	44.25814234	15.28313586	0.20310548	3.527054141	444.0459866	123.5913531	24.11635077	-0.17387929	0.350074744
TEM-22	0.066321721	0.00105765	413.9213059	6.394138091	0.515928431	0.02123875	422.1205185	14.88889466	0.021564206	0.000733908	431.1202928	14.51592399	0.056288082	0.002238761	453.3321892	94.03646279	15.1215478	0.24295769	3.822729036	128.2942528	32.21223512	6.207871408	0.072710646	0.299570902

Mass Spectrometer Files

File	File start time	File end time	Time file loaded	No of data points	No of channels	Channels	Samples
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:03:15.000	2023-08-11 10:04:15.979	2023-08-18 11:31:35.347	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:34:52.000	2023-08-11 13:35:52.980	2023-08-18 11:31:45.828	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_08.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:56:23.000	2023-08-11 14:57:23.980	2023-08-18 11:31:59.790	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_46.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:07:26.000	2023-08-11 12:08:26.980	2023-08-18 11:31:36.439	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_045.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:31:37.000	2023-08-11 10:32:37.979	2023-08-18 11:31:59.962	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_015.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:57:29.000	2023-08-11 14:58:29.980	2023-08-18 11:32:00.165	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_47.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:58:35.000	2023-08-11 14:59:35.980	2023-08-18 11:32:00.321	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_47.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:59:41.000	2023-08-11 15:00:41.980	2023-08-18 11:32:00.617	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_49.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:00:48.000	2023-08-11 15:01:48.980	2023-08-18 11:32:00.804	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_50.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:01:54.000	2023-08-11 15:02:54.979	2023-08-18 11:32:00.992	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-23
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:03:00.000	2023-08-11 15:04:00.980	2023-08-18 11:32:01.179	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-24
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:04:06.000	2023-08-11 15:05:06.980	2023-08-18 11:32:01.382	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-22
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:35:58.000	2023-08-11 13:36:58.979	2023-08-18 11:31:45.953	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_10.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:05:12.000	2023-08-11 15:06:12.979	2023-08-18 11:32:01.584	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-23
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:06:18.000	2023-08-11 15:07:18.980	2023-08-18 11:32:01.943	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-22
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:13:09.000	2023-08-11 10:14:09.979	2023-08-18 11:31:35.393	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:08:31.000	2023-08-11 12:09:31.980	2023-08-18 11:31:36.485	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_047.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:07:25.000	2023-08-11 15:08:25.980	2023-08-18 11:32:02.130	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-23
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:32:42.000	2023-08-11 10:33:42.979	2023-08-18 11:32:02.333	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_018.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:08:31.000	2023-08-11 15:09:31.981	2023-08-18 11:32:02.520	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-22
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:09:38.000	2023-08-11 15:10:38.980	2023-08-18 11:32:02.708	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-23
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:10:44.000	2023-08-11 15:11:44.980	2023-08-18 11:32:02.895	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_50.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:11:51.000	2023-08-11 15:12:51.980	2023-08-18 11:32:03.182	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_57.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:37:04.000	2023-08-11 13:38:04.980	2023-08-18 11:31:46.203	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_10.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:12:56.000	2023-08-11 15:13:56.980	2023-08-18 11:32:03.376	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_59.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:14:02.000	2023-08-11 15:15:02.980	2023-08-18 11:32:03.560	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_59.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:15:09.000	2023-08-11 15:16:09.980	2023-08-18 11:32:03.739	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_60.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:16:15.000	2023-08-11 15:17:15.980	2023-08-18 11:32:03.918	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_61.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:09:36.000	2023-08-11 12:10:36.980	2023-08-18 11:31:36.532	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-11
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:17:21.000	2023-08-11 15:18:21.980	2023-08-18 11:32:04.107	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_63.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:18:28.000	2023-08-11 15:19:28.980	2023-08-18 11:32:04.413	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_65.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:33:48.000	2023-08-11 10:34:48.980	2023-08-18 11:32:04.600	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_018.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:19:34.000	2023-08-11 15:20:34.980	2023-08-18 11:32:04.803	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_65.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:20:41.000	2023-08-11 15:21:41.980	2023-08-18 11:32:04.990	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-24
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:59:49.000	2023-08-11 12:00:49.980	2023-08-18 11:31:35.830	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_036.4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:21:46.000	2023-08-11 15:22:46.980	2023-08-18 11:32:05.193	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-25
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:22:52.000	2023-08-11 15:23:52.687	2023-08-18 11:32:05.427	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-26
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:23:58.000	2023-08-11 15:24:58.980	2023-08-18 11:32:05.754	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-24
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:25:07.000	2023-08-11 15:26:07.979	2023-08-18 11:32:05.957	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-25
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:26:12.000	2023-08-11 15:27:12.980	2023-08-18 11:32:06.160	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-26
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:10:42.000	2023-08-11 12:11:42.980	2023-08-18 11:31:36.595	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-12
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:27:17.000	2023-08-11 15:28:17.979	2023-08-18 11:32:06.347	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-24
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:28:24.000	2023-08-11 15:29:24.980	2023-08-18 11:32:06.550	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-25
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:29:30.000	2023-08-11 15:30:30.980	2023-08-18 11:32:06.753	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-26
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:05:34.000	2023-08-11 10:06:34.686	2023-08-18 11:32:07.049	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:38:10.000	2023-08-11 13:39:10.980	2023-08-18 11:31:46.312	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-17
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:34:53.000	2023-08-11 10:35:53.980	2023-08-18 11:32:07.252	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_019.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:30:36.000	2023-08-11 15:31:36.980	2023-08-18 11:32:07.455	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-25
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:31:43.000	2023-08-11 15:32:43.980	2023-08-18 11:32:07.658	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-26
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 15:32:49.000	2023-08-11 15:33:49.980	2023-08-18 11:32:07.860	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-27
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:35:58.000	2023-08-11 10:36:58.980	2023-08-18 11:32:08.079	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_019.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:37:03.000	2023-08-11 10:38:03.980	2023-08-18 11:32:08.438	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_021.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:11:47.000	2023-08-11 12:12:47.687	2023-08-18 11:31:36.657	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-10
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:38:09.000	2023-08-11 10:39:09.980	2023-08-18 11:32:08.656	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-5
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:39:13.000	2023-08-11 10:40:13.980	2023-08-18 11:32:08.843	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-6
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:40:19.000	2023-08-11 10:41:19.980	2023-08-18 11:32:09.030	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:39:16.000	2023-08-11 13:40:16.980	2023-08-18 11:31:46.421	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-18
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:41:24.000	2023-08-11 10:42:24.979	2023-08-18 11:32:09.233	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-5

G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:42:29.000	2023-08-11 10:43:29.980	2023-08-18 11:32:09.452	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:43:34.000	2023-08-11 10:44:34.979	2023-08-18 11:32:09.795	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-5
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:44:39.000	2023-08-11 10:45:39.980	2023-08-18 11:32:09.998	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:06:39.000	2023-08-11 10:07:39.979	2023-08-18 11:32:10.200	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:45:44.000	2023-08-11 10:46:44.980	2023-08-18 11:32:10.403	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-5
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:46:49.000	2023-08-11 10:47:49.980	2023-08-18 11:32:10.622	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_023.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:15:19.000	2023-08-11 10:16:19.979	2023-08-18 11:31:36.704	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:47:54.000	2023-08-11 10:48:54.981	2023-08-18 11:32:10.824	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_12.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:48:58.000	2023-08-11 10:49:58.980	2023-08-18 11:32:11.183	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_07.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:04:29.000	2023-08-11 10:05:29.979	2023-08-18 11:31:46.546	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:50:03.000	2023-08-11 10:51:03.980	2023-08-18 11:32:11.464	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_07.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:51:09.000	2023-08-11 10:52:09.980	2023-08-18 11:32:11.682	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_18.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:52:14.000	2023-08-11 10:53:14.980	2023-08-18 11:32:11.901	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_18.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:53:19.000	2023-08-11 10:54:19.979	2023-08-18 11:32:12.119	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_22.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:54:25.000	2023-08-11 10:55:25.979	2023-08-18 11:32:12.338	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_22.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:55:29.000	2023-08-11 10:56:29.979	2023-08-18 11:32:12.712	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_24.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:07:45.000	2023-08-11 10:08:45.979	2023-08-18 11:32:12.946	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:56:34.000	2023-08-11 10:57:34.979	2023-08-18 11:32:13.149	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_34.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:12:52.000	2023-08-11 12:13:52.979	2023-08-18 11:31:36.860	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-11
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:57:39.000	2023-08-11 10:58:39.980	2023-08-18 11:32:13.383	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_34.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:24:00.000	2023-08-11 10:25:00.980	2023-08-18 11:31:46.686	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_010.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:58:44.000	2023-08-11 10:59:44.979	2023-08-18 11:32:13.617	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_38.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:59:49.000	2023-08-11 11:00:49.980	2023-08-18 11:32:13.851	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_54.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:00:54.000	2023-08-11 11:01:54.979	2023-08-18 11:32:14.194	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01-m2_UPb_60.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:01:59.000	2023-08-11 11:02:59.980	2023-08-18 11:32:14.412	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_001.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:03:04.000	2023-08-11 11:04:04.979	2023-08-18 11:32:14.646	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_001.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:04:10.000	2023-08-11 11:05:10.980	2023-08-18 11:32:14.849	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_003.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:05:15.000	2023-08-11 11:06:15.980	2023-08-18 11:32:15.099	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_005.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:06:20.000	2023-08-11 11:07:20.980	2023-08-18 11:32:15.333	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_005.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:08:50.000	2023-08-11 10:09:50.979	2023-08-18 11:32:15.645	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:13:58.000	2023-08-11 12:14:58.980	2023-08-18 11:31:36.938	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-10
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:40:21.000	2023-08-11 13:41:21.980	2023-08-18 11:31:46.811	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-16
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:07:25.000	2023-08-11 11:08:25.980	2023-08-18 11:32:15.863	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_007.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:08:30.000	2023-08-11 11:09:30.980	2023-08-18 11:32:16.097	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-7
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:09:36.000	2023-08-11 11:10:36.980	2023-08-18 11:32:16.316	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-8
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:10:41.000	2023-08-11 11:11:41.979	2023-08-18 11:32:16.550	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-6
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:11:47.000	2023-08-11 11:12:47.980	2023-08-18 11:32:16.752	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-7
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:12:52.000	2023-08-11 11:13:52.979	2023-08-18 11:32:17.127	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-6
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:13:58.000	2023-08-11 11:14:58.980	2023-08-18 11:32:17.330	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-7
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:15:03.000	2023-08-11 11:16:03.980	2023-08-18 11:32:17.564	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-6
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:16:08.000	2023-08-11 11:17:08.979	2023-08-18 11:32:17.782	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-7
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:17:13.000	2023-08-11 11:18:13.980	2023-08-18 11:32:18.001	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_007.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:41:28.000	2023-08-11 13:42:28.980	2023-08-18 11:31:47.030	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-17
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:15:04.000	2023-08-11 12:16:04.980	2023-08-18 11:31:37.016	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-11
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:09:55.000	2023-08-11 10:10:55.980	2023-08-18 11:32:18.219	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:18:19.000	2023-08-11 11:19:19.980	2023-08-18 11:32:18.609	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_007.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:19:25.000	2023-08-11 11:20:25.981	2023-08-18 11:32:18.859	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_008.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:20:30.000	2023-08-11 11:21:30.980	2023-08-18 11:32:19.077	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_009.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:21:35.000	2023-08-11 11:22:35.979	2023-08-18 11:32:19.311	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_009.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:22:41.000	2023-08-11 11:23:41.980	2023-08-18 11:32:19.514	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_010.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:23:46.000	2023-08-11 11:24:46.980	2023-08-18 11:32:19.748	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_011.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:24:52.000	2023-08-11 11:25:52.980	2023-08-18 11:32:20.138	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_012.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:25:57.000	2023-08-11 11:26:57.980	2023-08-18 11:32:20.341	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_012.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:58:44.000	2023-08-11 11:59:44.980	2023-08-18 11:31:35.783	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_036.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:42:33.000	2023-08-11 13:43:33.980	2023-08-18 11:31:47.139	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-16
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:27:03.000	2023-08-11 11:28:03.980	2023-08-18 11:32:20.575	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_012.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:16:09.000	2023-08-11 12:17:09.979	2023-08-18 11:31:37.078	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-10
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:28:07.000	2023-08-11 11:29:07.980	2023-08-18 11:32:20.777	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_012.4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:10:59.000	2023-08-11 10:11:59.980	2023-08-18 11:32:21.027	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:29:13.000	2023-08-11 11:30:13.980	2023-08-18 11:32:21.245	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_013.1

G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:30:19.000	2023-08-11 11:31:19.980	2023-08-18 11:32:21.604	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_013.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:31:24.000	2023-08-11 11:32:24.980	2023-08-18 11:32:21.838	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_014.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:32:30.000	2023-08-11 11:33:30.979	2023-08-18 11:32:22.088	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_014.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:33:37.000	2023-08-11 11:34:37.979	2023-08-18 11:32:22.337	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_014.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:34:42.000	2023-08-11 11:35:42.980	2023-08-18 11:32:22.571	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_017.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:43:39.000	2023-08-11 13:44:39.980	2023-08-18 11:31:47.264	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-17
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:35:47.000	2023-08-11 11:36:47.980	2023-08-18 11:32:22.837	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_017.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:36:53.000	2023-08-11 11:37:53.980	2023-08-18 11:32:23.164	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_026.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:17:15.000	2023-08-11 12:18:15.979	2023-08-18 11:31:37.141	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-11
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:38:00.000	2023-08-11 11:39:00.979	2023-08-18 11:32:23.414	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_027.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:39:05.000	2023-08-11 11:40:05.980	2023-08-18 11:32:23.695	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-9
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:12:04.000	2023-08-11 10:13:04.979	2023-08-18 11:32:23.944	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:40:10.000	2023-08-11 11:41:10.979	2023-08-18 11:32:24.178	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-10
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:41:16.000	2023-08-11 11:42:16.979	2023-08-18 11:32:24.459	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-8
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:42:22.000	2023-08-11 11:43:22.980	2023-08-18 11:32:24.833	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-9
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:43:27.000	2023-08-11 11:44:27.980	2023-08-18 11:32:25.083	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-8
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:44:45.000	2023-08-11 13:45:45.980	2023-08-18 11:31:47.404	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-16
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:44:33.000	2023-08-11 11:45:33.979	2023-08-18 11:32:25.333	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-9
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:45:38.000	2023-08-11 11:46:38.687	2023-08-18 11:32:25.567	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-8
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:46:43.000	2023-08-11 11:47:43.979	2023-08-18 11:32:25.801	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-9
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:51:06.000	2023-08-11 11:52:06.980	2023-08-18 11:31:35.440	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_029.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:18:20.000	2023-08-11 12:19:20.980	2023-08-18 11:31:37.203	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_047.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:47:49.000	2023-08-11 11:48:49.980	2023-08-18 11:32:26.066	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_028.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:48:54.000	2023-08-11 11:49:54.980	2023-08-18 11:32:26.425	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_028.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:50:00.000	2023-08-11 11:51:00.980	2023-08-18 11:32:26.690	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_029.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:19:25.000	2023-08-11 12:20:26.273	2023-08-18 11:31:37.406	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_048.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:45:50.000	2023-08-11 13:46:50.979	2023-08-18 11:31:47.513	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-17
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:20:30.000	2023-08-11 12:21:30.980	2023-08-18 11:31:37.468	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_048.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:21:36.000	2023-08-11 12:22:36.980	2023-08-18 11:31:37.515	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_049.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:22:40.000	2023-08-11 12:23:40.980	2023-08-18 11:31:37.577	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_052.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:16:24.000	2023-08-11 10:17:24.979	2023-08-18 11:31:37.655	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_005.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:23:45.000	2023-08-11 12:24:45.980	2023-08-18 11:31:37.718	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_052.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:24:51.000	2023-08-11 12:25:51.980	2023-08-18 11:31:37.874	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_052.4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:25:56.000	2023-08-11 12:26:56.979	2023-08-18 11:31:37.936	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_053.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:27:01.000	2023-08-11 12:28:01.980	2023-08-18 11:31:38.014	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_055.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:52:11.000	2023-08-11 11:53:11.980	2023-08-18 11:31:35.471	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_029.4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:28:06.000	2023-08-11 12:29:06.980	2023-08-18 11:31:38.077	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_055.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:00:54.000	2023-08-11 12:01:54.980	2023-08-18 11:31:35.877	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_037.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:29:12.000	2023-08-11 12:30:12.980	2023-08-18 11:31:38.170	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_058.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:30:17.000	2023-08-11 12:31:17.979	2023-08-18 11:31:38.233	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_059.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:31:23.000	2023-08-11 12:32:23.980	2023-08-18 11:31:38.404	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_063.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:32:29.000	2023-08-11 12:33:29.980	2023-08-18 11:31:38.482	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_063.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:33:34.000	2023-08-11 12:34:34.980	2023-08-18 11:31:38.560	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_066.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:17:28.000	2023-08-11 10:18:28.981	2023-08-18 11:31:38.638	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_005.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:34:39.000	2023-08-11 12:35:39.686	2023-08-18 11:31:38.732	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_067.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:35:44.000	2023-08-11 12:36:44.980	2023-08-18 11:31:38.794	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_068.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:36:50.000	2023-08-11 12:37:50.980	2023-08-18 11:31:38.981	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_069.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:53:16.000	2023-08-11 11:54:16.980	2023-08-18 11:31:35.518	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_030.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:46:57.000	2023-08-11 13:47:57.980	2023-08-18 11:31:47.622	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_11.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:37:54.000	2023-08-11 12:38:54.980	2023-08-18 11:31:39.059	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_069.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:39:00.000	2023-08-11 12:40:00.980	2023-08-18 11:31:39.137	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_072.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:40:05.000	2023-08-11 12:41:05.980	2023-08-18 11:31:39.231	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-13
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:41:10.000	2023-08-11 12:42:10.979	2023-08-18 11:31:39.387	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-14
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:42:16.000	2023-08-11 12:43:16.980	2023-08-18 11:31:39.465	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-12
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:43:22.000	2023-08-11 12:44:22.980	2023-08-18 11:31:39.668	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-13
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:44:27.000	2023-08-11 12:45:27.979	2023-08-18 11:31:39.761	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-12
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:18:33.000	2023-08-11 10:19:33.979	2023-08-18 11:31:39.855	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_006.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:45:33.000	2023-08-11 12:46:33.980	2023-08-18 11:31:39.949	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-13
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:46:40.000	2023-08-11 12:47:40.980	2023-08-18 11:31:40.042	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-12
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:48:03.000	2023-08-11 13:49:03.980	2023-08-18 11:31:47.856	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_12.1

G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:54:21.000	2023-08-11 11:55:21.979	2023-08-18 11:31:35.549	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_032.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:47:45.000	2023-08-11 12:48:45.979	2023-08-18 11:31:40.136	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-13
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:48:50.000	2023-08-11 12:49:50.980	2023-08-18 11:31:40.323	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_077.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:49:55.000	2023-08-11 12:50:55.980	2023-08-18 11:31:40.417	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_077.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:51:01.000	2023-08-11 12:52:01.980	2023-08-18 11:31:40.510	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_078.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:52:06.000	2023-08-11 12:53:06.980	2023-08-18 11:31:40.604	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_079.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:53:12.000	2023-08-11 12:54:12.979	2023-08-18 11:31:40.697	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_080.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:54:18.000	2023-08-11 12:55:18.980	2023-08-18 11:31:40.775	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_080.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:55:23.000	2023-08-11 12:56:23.979	2023-08-18 11:31:40.947	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_081.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:19:39.000	2023-08-11 10:20:39.979	2023-08-18 11:31:41.056	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_006.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:49:09.000	2023-08-11 13:50:09.979	2023-08-18 11:31:47.981	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_12.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:56:29.000	2023-08-11 12:57:29.980	2023-08-18 11:31:41.150	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_081.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:55:27.000	2023-08-11 11:56:27.980	2023-08-18 11:31:35.659	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_035.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:57:35.000	2023-08-11 12:58:35.980	2023-08-18 11:31:41.243	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_081.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:58:41.000	2023-08-11 12:59:41.980	2023-08-18 11:31:41.337	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_081.4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:59:47.000	2023-08-11 13:00:47.980	2023-08-18 11:31:41.431	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_085.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:00:54.000	2023-08-11 13:01:54.980	2023-08-18 11:31:41.618	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_086.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:02:00.000	2023-08-11 13:03:00.980	2023-08-18 11:31:41.711	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_088.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:03:05.000	2023-08-11 13:04:05.980	2023-08-18 11:31:41.805	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_090.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:04:10.000	2023-08-11 13:05:10.979	2023-08-18 11:31:41.899	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_090.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:05:17.000	2023-08-11 13:06:17.980	2023-08-18 11:31:41.992	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_092.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:50:14.000	2023-08-11 13:51:14.979	2023-08-18 11:31:48.106	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_13.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:06:23.000	2023-08-11 13:07:23.979	2023-08-18 11:31:42.086	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_092.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:20:44.000	2023-08-11 10:21:44.980	2023-08-18 11:31:42.257	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_007.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:56:32.000	2023-08-11 11:57:32.979	2023-08-18 11:31:35.690	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_035.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:07:28.000	2023-08-11 13:08:28.980	2023-08-18 11:31:42.351	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_092.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:08:35.000	2023-08-11 13:09:35.980	2023-08-18 11:31:42.445	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_095.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:09:41.000	2023-08-11 13:10:41.979	2023-08-18 11:31:42.554	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_095.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:10:47.000	2023-08-11 13:11:47.980	2023-08-18 11:31:42.663	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-15
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:11:54.000	2023-08-11 13:12:54.979	2023-08-18 11:31:42.757	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-16
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:13:00.000	2023-08-11 13:14:00.980	2023-08-18 11:31:42.989	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-14
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:14:05.000	2023-08-11 13:15:05.980	2023-08-18 11:31:43.099	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-15
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:25:06.000	2023-08-11 10:26:06.980	2023-08-18 11:31:48.246	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_010.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:15:10.000	2023-08-11 13:16:10.980	2023-08-18 11:31:43.202	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-14
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:16:15.000	2023-08-11 13:17:15.980	2023-08-18 11:31:43.315	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-15
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:17:21.000	2023-08-11 13:18:21.980	2023-08-18 11:31:43.436	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-14
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 11:57:38.000	2023-08-11 11:58:38.980	2023-08-18 11:31:35.737	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_036.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:21:50.000	2023-08-11 10:22:50.980	2023-08-18 11:31:43.541	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_007.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:18:27.000	2023-08-11 13:19:27.980	2023-08-18 11:31:43.769	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-15
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:19:33.000	2023-08-11 13:20:33.980	2023-08-18 11:31:43.878	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_097.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:20:39.000	2023-08-11 13:21:39.980	2023-08-18 11:31:43.972	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_100.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:21:44.000	2023-08-11 13:22:44.979	2023-08-18 11:31:44.081	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_100.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:22:49.000	2023-08-11 13:23:49.980	2023-08-18 11:31:44.206	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_100.4
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:28:18.000	2023-08-11 13:29:18.980	2023-08-18 11:31:44.892	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_02.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:51:20.000	2023-08-11 13:52:20.980	2023-08-18 11:31:48.387	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_13.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:23:55.000	2023-08-11 13:24:55.979	2023-08-18 11:31:44.315	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_100.5
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:25:00.000	2023-08-11 13:26:00.980	2023-08-18 11:31:44.549	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_101.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:26:05.000	2023-08-11 13:27:05.980	2023-08-18 11:31:44.643	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_01.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:27:12.000	2023-08-11 13:28:12.979	2023-08-18 11:31:44.783	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_01.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:52:25.000	2023-08-11 13:53:25.980	2023-08-18 11:31:48.527	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_14.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:53:32.000	2023-08-11 13:54:32.980	2023-08-18 11:31:48.792	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_15.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:54:38.000	2023-08-11 13:55:38.687	2023-08-18 11:31:48.948	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_15.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:55:44.000	2023-08-11 13:56:44.980	2023-08-18 11:31:49.089	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_16.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:14:14.000	2023-08-11 10:15:14.980	2023-08-18 11:31:36.017	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:56:50.000	2023-08-11 13:57:50.980	2023-08-18 11:31:49.214	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_16.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:57:55.000	2023-08-11 13:58:55.979	2023-08-18 11:31:49.354	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_16.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:59:01.000	2023-08-11 14:00:01.980	2023-08-18 11:31:49.510	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_17.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:00:07.000	2023-08-11 14:01:07.980	2023-08-18 11:31:49.760	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-19
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:22:56.000	2023-08-11 10:23:56.980	2023-08-18 11:31:45.002	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_008.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:01:13.000	2023-08-11 14:02:13.979	2023-08-18 11:31:49.900	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-20

G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:26:12.000	2023-08-11 10:27:12.979	2023-08-18 11:31:50.056	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_012.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:02:19.000	2023-08-11 14:03:19.980	2023-08-18 11:31:50.181	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-18
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:03:25.000	2023-08-11 14:04:25.980	2023-08-18 11:31:50.337	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-19
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:04:32.000	2023-08-11 14:05:32.980	2023-08-18 11:31:50.477	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-18
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:05:38.000	2023-08-11 14:06:38.979	2023-08-18 11:31:50.742	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-19
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:01:59.000	2023-08-11 12:02:59.979	2023-08-18 11:31:36.064	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_037.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:06:44.000	2023-08-11 14:07:44.980	2023-08-18 11:31:50.898	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-18
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:07:50.000	2023-08-11 14:08:50.979	2023-08-18 11:31:51.039	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-19
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:08:57.000	2023-08-11 14:09:57.980	2023-08-18 11:31:51.164	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_17.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:29:23.000	2023-08-11 13:30:23.980	2023-08-18 11:31:45.111	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_03.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:10:02.000	2023-08-11 14:11:02.980	2023-08-18 11:31:51.320	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_18.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:11:09.000	2023-08-11 14:12:09.980	2023-08-18 11:31:51.491	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_18.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:12:16.000	2023-08-11 14:13:16.980	2023-08-18 11:31:51.725	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_19.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:27:17.000	2023-08-11 10:28:17.980	2023-08-18 11:31:51.881	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_013.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:13:21.000	2023-08-11 14:14:21.100	2023-08-18 11:31:52.037	207	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_19.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:14:28.000	2023-08-11 14:15:28.980	2023-08-18 11:31:52.193	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_19.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:15:33.000	2023-08-11 14:16:33.980	2023-08-18 11:31:52.334	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_22.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:03:04.000	2023-08-11 12:04:04.980	2023-08-18 11:31:36.111	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_043.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:16:40.000	2023-08-11 14:17:40.980	2023-08-18 11:31:52.474	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_24.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:17:47.000	2023-08-11 14:18:47.980	2023-08-18 11:31:52.724	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_24.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:30:29.000	2023-08-11 13:31:29.979	2023-08-18 11:31:45.345	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_05.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:18:53.000	2023-08-11 14:19:53.981	2023-08-18 11:31:52.880	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_26.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:20:00.000	2023-08-11 14:21:00.980	2023-08-18 11:31:53.051	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_26.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:21:05.000	2023-08-11 14:22:05.980	2023-08-18 11:31:53.176	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_26.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:22:11.000	2023-08-11 14:23:11.979	2023-08-18 11:31:53.348	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_27.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:23:17.000	2023-08-11 14:24:17.980	2023-08-18 11:31:53.504	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_27.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:28:22.000	2023-08-11 10:29:22.979	2023-08-18 11:31:53.738	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_014.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:24:23.000	2023-08-11 14:25:23.980	2023-08-18 11:31:53.909	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_30.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:25:29.000	2023-08-11 14:26:29.980	2023-08-18 11:31:54.065	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_30.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:04:09.000	2023-08-11 12:05:09.980	2023-08-18 11:31:36.142	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_043.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:26:35.000	2023-08-11 14:27:35.980	2023-08-18 11:31:54.221	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_30.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:31:35.000	2023-08-11 13:32:35.979	2023-08-18 11:31:45.454	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_06.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:27:40.000	2023-08-11 14:28:40.980	2023-08-18 11:31:54.362	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_31.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:28:46.000	2023-08-11 14:29:46.980	2023-08-18 11:31:54.533	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_31.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:29:53.000	2023-08-11 14:30:53.980	2023-08-18 11:31:54.783	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_35.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:30:58.000	2023-08-11 14:31:58.979	2023-08-18 11:31:54.954	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-21
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:32:05.000	2023-08-11 14:33:05.981	2023-08-18 11:31:55.110	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-22
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:33:12.000	2023-08-11 14:34:12.980	2023-08-18 11:31:55.298	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-20
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:34:19.000	2023-08-11 14:35:19.980	2023-08-18 11:31:55.454	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-21
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:29:28.000	2023-08-11 10:30:28.979	2023-08-18 11:31:55.610	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_015.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:35:25.000	2023-08-11 14:36:25.979	2023-08-18 11:31:55.906	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-20
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:05:15.000	2023-08-11 12:06:15.979	2023-08-18 11:31:36.220	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_043.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:32:41.000	2023-08-11 13:33:41.980	2023-08-18 11:31:45.579	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_07.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:36:31.000	2023-08-11 14:37:31.979	2023-08-18 11:31:56.078	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-21
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:37:37.000	2023-08-11 14:38:37.980	2023-08-18 11:31:56.234	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-20
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:38:43.000	2023-08-11 14:39:43.979	2023-08-18 11:31:56.405	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-21
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:39:49.000	2023-08-11 14:40:49.980	2023-08-18 11:31:56.577	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_37.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:40:55.000	2023-08-11 14:41:56.273	2023-08-18 11:31:56.764	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_37.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:42:00.000	2023-08-11 14:43:00.979	2023-08-18 11:31:57.045	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_38.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:43:07.000	2023-08-11 14:44:07.980	2023-08-18 11:31:57.216	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_38.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:44:13.000	2023-08-11 14:45:13.979	2023-08-18 11:31:57.404	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_39.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:45:19.000	2023-08-11 14:46:19.980	2023-08-18 11:31:57.560	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_40.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 10:30:32.000	2023-08-11 10:31:32.979	2023-08-18 11:31:57.747	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	JD01m1_UPb_015.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 13:33:46.000	2023-08-11 13:34:46.980	2023-08-18 11:31:45.704	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_08.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 12:06:21.000	2023-08-11 12:07:21.979	2023-08-18 11:31:36.267	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CH02_UPb_044.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:46:25.000	2023-08-11 14:47:25.980	2023-08-18 11:31:57.918	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_42.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:47:32.000	2023-08-11 14:48:32.980	2023-08-18 11:31:58.184	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_42.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:48:39.000	2023-08-11 14:49:39.980	2023-08-18 11:31:58.355	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_42.3
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:49:46.000	2023-08-11 14:50:46.980	2023-08-18 11:31:58.542	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_43.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:50:52.000	2023-08-11 14:51:52.980	2023-08-18 11:31:58.714	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_43.2

G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:51:59.000	2023-08-11 14:52:59.980	2023-08-18 11:31:58.901	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_44.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:53:05.000	2023-08-11 14:54:05.980	2023-08-18 11:31:59.088	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_44.2
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:54:11.000	2023-08-11 14:55:11.980	2023-08-18 11:31:59.400	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_45.1
G:/LAICPMS/Sission6_11_08_2023_unp	2023-08-11 14:55:18.000	2023-08-11 14:56:18.979	2023-08-18 11:31:59.588	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR06_UPb_46.1

Laser Log Files

File	File start time	File end time	Time file loaded	Samples	Offset (s)	Widths
G:/LAICPMS/LaserLogs/ChloeCAreen_la	2023-08-11 11:03:21.073	2023-08-11 16:33:54.518	2023-08-18 11:32:51.166	NIST610-2,CH02_UPb_036.3,CR06_UPb	-3599.08	30

	Final Pb206/U	Final Pb206/U	Final Pb206/U	Final Pb206/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb208/T	Final Pb208/T	Final Pb208/T	Final Pb208/T	Final Pb207/P	Final Pb207/P	Final Pb207/P	Final Pb207/P	Final U238/Pb	Final U238/Pb	Final U/Th_m	Approx_U_PP	Approx_Th_P	Approx_Pb_PPM_mean	rho 207Pb/20	rho 206Pb/238U v 207Pb/235U
CH02																								
CH02_UPb_00	0.063790573	0.001602471	398.6230122	9.710269424	0.485385133	0.009968569	401.2074547	6.85694834	0.019699084	0.000322529	394.2828793	6.395195218	0.055648052	0.001167982	420.0983371	48.92857545	15.67870739	0.409862775	0.648294891	305.8085008	463.487984	83.55948901	0.160991674	0.117588095
CH02_UPb_00	0.066534751	0.001723931	415.2295062	10.41992381	0.727976675	0.041075291	563.0989709	28.83085099	0.025114339	0.000897823	501.2569115	17.69504676	0.080705789	0.004315434	1200.944528	123.0338839	15.04806285	0.390965932	1.049475795	202.3426286	189.6892258	42.90088834	-0.12862714	0.276421494
	0.064184756	0.001784513	401.0031976	10.8070316	0.540588165	0.018326354	438.1036386	12.1870869	0.020684721	0.000561876	413.7962289	11.13039932	0.061222709	0.002243903	626.2405452	81.71788147	15.60905789	0.432979183	1.095275698	121.5124264	109.1210975	22.37887547	0.313984063	0.038168589
CH02_UPb_00	0.070809519	0.002527288	440.911231	15.22500522	1.752033645	0.183961995	999.3061798	69.3998059	0.058379698	0.006095861	1142.795931	116.1434413	0.178058162	0.015358404	2537.481532	154.7995547	14.24665763	0.524689147	1.591480173	1109.622898	662.9248689	352.9827663	-0.79296296	0.867700272
CH02_UPb_00	0.070241736	0.001980697	437.547261	11.93644013	2.115138022	0.062655932	1149.276248	20.47211106	0.044983929	0.001061002	889.2128535	20.50615978	0.221408721	0.006933057	2970.920789	50.18033363	14.30451334	0.413268424	0.868798726	54.78348048	63.12080765	25.58770252	0.337157863	0.163740986
CH02_UPb_00	0.072665133	0.002268619	452.0919013	13.63830681	2.320779549	0.07052219	1214.672281	21.75076996	0.050134291	0.001336818	988.5291885	25.74901708	0.235360464	0.007086208	3083.221192	45.45745131	13.85753897	0.442853875	0.926343296	57.61128605	61.93135578	27.71881897	0.310505135	0.572428078
CH02_UPb_00	0.063332512	0.00175015	395.8443104	10.60856711	0.53190559	0.024472095	432.0756098	16.14733614	0.020934112	0.000831317	418.7108247	16.46025001	0.061413416	0.002702142	630.8582796	94.92336506	15.81194862	0.435622132	1.006402371	171.4681823	169.5288424	30.83770069	-0.05542574	0.285306966
	0.063486361	0.001743132	396.7742629	10.56770404	0.540735216	0.026212523	437.5229556	17.18670997	0.021090948	0.00078971	421.8114694	15.63832706	0.062347951	0.002892131	655.4654571	99.81684437	15.77747705	0.43669091	0.986004793	174.9382247	177.8289548	32.89806698	-0.10026636	0.313006175
CH02_UPb_00	0.068431041	0.001863682	426.6623641	11.23346573	0.900763307	0.054824386	645.6654158	28.36232179	0.02974032	0.001414769	592.0718184	27.70998028	0.096152071	0.005125943	1498.762206	97.3851455	14.64985303	0.38925161	1.301826054	183.3631508	141.1586433	37.88072312	-0.38457302	0.563896052
CH02_UPb_00	0.091098789	0.002760278	561.9412494	16.32988858	3.624249409	0.175268692	1545.663313	40.01676859	0.07660765	0.003682573	1490.648801	69.34745713	0.290309934	0.010618224	3403.871326	59.39285233	11.02331545	0.347239638	0.987122146	290.2335012	294.8661749	201.9938954	-0.71260493	0.859887188
CH02_UPb_00	0.06741517	0.002449125	420.4344295	14.71370979	0.779698286	0.160189499	563.6872435	75.52461768	0.024245827	0.002408104	483.4726183	47.00455866	0.084346975	0.014310579	1043.170148	243.6529112	14.89263129	0.511795759	0.89023307	198.5439471	231.0006515	54.32975036	-0.8073168	0.901089838
CH02_UPb_00	0.064667265	0.001861725	403.9193328	11.26767479	0.511217686	0.021562362	418.2707138	14.65694307	0.019633306	0.000624238	392.9577325	12.37762442	0.057878077	0.002414435	497.1966559	97.9791431	15.49990805	0.443458101	1.017761809	129.8713944	127.9421464	22.45320213	0.12918548	0.185328453
CH02_UPb_00	0.065256086	0.001742109	407.4849114	10.53644753	0.489668931	0.019619924	403.2361856	13.19547493	0.020160359	0.000488357	403.4053305	9.677506086	0.055154672	0.002251293	375.1113496	89.99894052	15.35757301	0.404780701	1.008499014	235.1254587	251.2106472	45.09499	0.185401923	0.07053364
CH02_UPb_01	0.064070308	0.001636233	400.3116782	9.91387811	0.493549893	0.01530582	406.0478976	10.32340811	0.019894506	0.000391764	398.1446993	7.764891782	0.056179267	0.001733268	431.5466054	71.25820261	15.63490833	0.402130879	0.746752732	162.5802705	218.5446925	40.31481631	0.274015402	-0.0095689
CH02_UPb_01	0.063441287	0.001658459	396.5040529	10.05629308	0.459166562	0.013068725	383.1228752	9.164963675	0.019330687	0.000444223	386.9704295	8.812907198	0.053132735	0.001490202	315.1226322	68.07714017	15.78464465	0.418037811	0.848304529	233.2529259	283.9585515	48.68891672	0.14195368	0.136638309
CH02_UPb_01	0.064948727	0.00169483	405.6232425	10.25297765	0.517986212	0.019965729	426.6968765	14.55079939	0.020374207	0.000482717	407.6324428	9.56084621	0.058572579	0.002223409	528.596601	83.93402781	15.4323838	0.398577727	0.861306874	196.895183	231.1389809	44.40588554	-0.17943173	0.417446523
CH02_UPb_01	0.063866427	0.001657662	399.0715476	10.04973965	0.477903595	0.014746987	395.4490413	10.19490051	0.019788567	0.000391458	396.045807	7.76228165	0.054888053	0.001746529	380.4531829	70.55926269	15.69208382	0.416749211	0.835333537	202.7368961	244.57951	44.54527429	0.144743846	0.101948141
CH02_UPb_01	0.064424756	0.00170606	402.4447616	10.33292511	0.488831326	0.014383538	402.9794586	9.792365406	0.020470794	0.000424175	409.5573526	8.400494787	0.055580655	0.001749724	396.4591556	72.71791452	15.56710642	0.416079921	1.069151097	166.7814083	158.2278789	29.65786118	0.390353823	-0.07293926
CH02_UPb_01	0.063979022	0.001625992	399.7634691	9.852285356	0.477927568	0.013174863	395.8410255	8.986895398	0.019345089	0.000403214	387.2541895	7.996796932	0.054789447	0.00155647	377.5047982	63.19894563	15.62887355	0.378116591	1.159918138	230.2452607	199.2827816	35.13543179	0.237765302	0.042571838
CH02_UPb_01	0.064266542	0.001674107	401.4933587	10.13621232	0.485205125	0.015256554	400.3700466	10.40564894	0.019904054	0.00041917	398.329236	8.304311895	0.055238511	0.001772055	393.921677	71.03957518	15.59588909	0.403007542	1.111329825	187.7597334	174.452529	31.44265352	0.244404203	0.054166449
CH02_UPb_01	0.0641281	0.001612439	400.6674418	9.764135297	0.488746467	0.013556434	403.0485306	9.156661213	0.02005878	0.000386081	401.4013343	7.650047599	0.055588011	0.001488943	417.891381	56.92265102	15.61286137	0.388763272	1.044601511	265.0205842	261.2113604	47.2615902	0.044108673	0.239941096
CH02_UPb_01	0.06460079	0.001658421	403.5233034	10.04397045	0.494709342	0.013513328	407.160617	9.105755956	0.019966304	0.000411759	399.5648694	8.158672136	0.05603934	0.001552936	425.765357	61.40949119	15.50798552	0.402165098	0.881976037	190.0199693	231.5216661	41.18468401	0.194039041	0.113124703
CH02_UPb_01	0.064616593	0.001627216	403.6260273	9.852754622	0.500485343	0.014297079	410.9821037	9.599527836	0.020494127	0.000370279	410.0301224	7.332861433	0.056602101	0.001624282	446.2457486	63.66895712	15.477748	0.40663625	0.995620748	253.1098504	253.9509197	47.09744892	0.203080417	0.041866902
CH02_UPb_01	0.062552595	0.001635065	391.1148522	9.919944064	0.53522972	0.018476084	434.2622261	12.23331141	0.020332288	0.000377739	406.829281	7.483611708	0.062876482	0.002260176	676.7174798	79.0760718	16.00905799	0.420153397	1.118806417	361.3677286	324.8385785	58.33710021	0.318764625	-0.03162501
CH02_UPb_01	0.064044152	0.001621796	400.1573787	9.830264223	0.4812629	0.012173151	398.1601277	8.338446845	0.019719544	0.000337547	394.6867275	6.690062109	0.055064103	0.001357954	411.0900728	54.96140975	15.63596164	0.403939499	0.709457316	255.9785013	369.622609	65.14303644	0.071495169	0.195872198
CH02_UPb_01	0.064338066	0.001752402	401.9235023	10.60591591	0.49753135	0.019117997	408.6939726	13.05638504	0.020363674	0.000549345	407.4248065	10.88150135	0.056885844	0.00229632	462.8205631	87.00466299	15.58205461	0.415745025	1.240311322	185.5173518	150.8653417	27.04482012	0.100943992	0.316836013
CH02_UPb_02	0.063897732	0.001622929	399.2689498	9.833543065	0.482679103	0.012999882	399.0093084	8.850225674	0.020135251	0.000396846	403.8959464	7.456128823	0.054974524	0.001507168	391.5910664	64.7816122	15.65404063	0.415230812	1.019704895	228.0790806	226.5818306	41.09448017	0.371105836	-0.09268357
CH02_UPb_02	0.063376722	0.001676541	396.1064466	10.16227743	0.484755513	0.022172837	402.3733298	14.2285544	0.020119965	0.000525732	402.5997979	10.41844096	0.056199349	0.002597079	427.6140786	99.86954055	15.80903774	0.41775991	1.105958807	130.6771377	118.5615388	20.99546571	0.174512064	0.046638167
CH02_UPb_02	0.064303096	0.001675057	401.7147029	10.14622534	0.549534577	0.02339039	442.0242448	14.99740778	0.021157464	0.000474256	423.1445551	9.387922816	0.062055403	0.002411141	635.9316486	83.96612386	15.58760892	0.409219787	0.869088436	176.9558403	201.6048821	39.3429652	-0.16704181	0.361493573
CH02_UPb_02	0.065231534	0.001657541	407.3466091	10.03431789	0.509244036	0.014092928	417.0037608	9.539232359	0.020585643	0.000417546	411.8364419	8.268041354	0.057264985	0.001677764	483.9413848	63.77986066	15.35103204	0.395682331	1.158551533	177.3409027	149.8743621	28.22826559	0.325721185	-0.03821571
CH02_UPb_02	0.063731827	0.001624568	398.2617621	9.84386444	0.496240867	0.015775101	407.7921291	10.75564293	0.020276619	0.000419274	405.7116344	8.306532044	0.057045593	0.001846871	477.3865747	67.14152009	15.71664258	0.400717523	0.990824228	145.932041	143.8026804	26.89745165	0.239562836	0.008251752
CH02_UPb_02	0.065609033	0.001823764	409.5897278	11.02739785	0.806119071	0.047109511	592.2121054	25.60635411	0.027083561	0.00103943	539.9139167	20.43753565	0.089557317	0.004610814	1382.671416	105.8247546	15.31300359	0.423156773	1.083612691	120.0816769	108.0245974	27.13185601	-0.48148045	0.664578001
CH02_UPb_02	0.065267847	0.001701566	407.5547274	10.29761623	0.507877501	0.016030195	415.6770445	10.77268354	0.020634828	0.000413542	412.8088943	8.189585645	0.057078109	0.001896129	453.9150904	74.21415715	15.35721055	0.403822655	1.139797789	102.6858485	86.8679482	16.58336624	0.318998467	-0.05227803
CH02_UPb_03	0.064815132	0.001735829	404.8035878	10.50984208	0.472452134	0.01683578	391.2911921	11.59733322	0.019882202	0.000451443	397.8893253	8.944903314	0.053558254	0.002000028	314.0343867	81.96481681	15.44857365	0.397780565	1.064544366	81.45976838	73.66779572	13.640358	0.321640547	-0.04610611
CH02_UPb_03	0.112530743	0.005672582	685.9272878	32.09358828	7.201817007	0.593935451	2112.761725	75.97494852	0.064924739	0.007384568	1260.584148	134.2067032	0.466903654	0.020111269	4104.288961	62.98675687	9.011625534	0.430717895	0.440347082	206.9612785	467.5646695	283.6829336	-0.90696073	0.993272893
CH02_UPb_03	0.063865251	0.001724466	399.0477616	10.44275667	0.481689093	0.012841398	398.3115849	8.76466416	0.019816703	0.000334117	396.6124806	6.620818661	0.054812965	0.001227327	399.345741	55.48856126	15.71368712	0.421770359	0.582540022	422.6646398	783.5990157	140.876774	0.09722489	0.376650215
CH02_UPb_03	0.064332621	0.001636627	401.9023047	9.908325697	0.484695168	0.013954771	401.7134633	9.99772458	0.02045038	0.000397456	409.1582862	7.870960465	0.05526366	0.001600466	398.4850503	69.51773378	15.56833467	0.392213974	1.022231019	209.0430545	200.7715219	37.66277632	0.155843572	0.119284985
CH02_UPb_03	0.064227585	0.001631071	401.2667205	9.880343277	0.484930502	0.011469026	400.7264816	7.877422614	0.019624725	0.000387587	392.798209	7.683933385	0.055446493	0.001379901	405.6379098	57.338978	15.59338304	0.397934697	0.963323827	216.7859855	213.2809936	39.46862376	0.264757725	0.001448538
CH02_UPb_03	0.065688712	0.001707341	410.1019573	10.32815937	0.484733882	0.01715914	399.7447005	11.6115977	0.020644479	0.000426283	412.9975889	8.440763395	0.054178503	0.001989599	326.9527322	84.37566772	15.23366253	0.416800315	1.109791712	130.178868	113.8721449	21.61215101	0.316880906	-0.07537812
CH02_UPb_03	0.06375502	0.001614394	398.4048816	9.783649066	0.490534103	0.012376286	404.4464585	8.406527834	0.019771061	0.000385738	395.6994314	7.644651383	0.05647135	0.001525488	443.4389384	60.02423513	15.70752083	0.399361964	1.105288416	162.2200466	138.4364322	25.60086448	0.300795825	-0.03572953
CH02_UPb_03	0.065890557	0.001664686	411.3324259	10.06394082	0.793676782	0.068144921	576.3067281	36.68021193	0.024983476	0.001098307	498.5062957	21.61015567	0.087938385	0.007265401	1181.895756	155.9409356	15.19803162	0.380428393	0.857200774	178.4653633	201.2883577	47.14524953	-0.30271167	0.395282053
CH02_UPb_03	0.064130457	0.00171043	400.6622292	10.36142505	0.559379607	0.019620689	449.3244204	12.83264876	0.02129091	0.000543547	425.7729012	10.75688116	0.064150578	0.002255307	704.2372162	78.32308584	15.63879479	0.42060614	1.261090825	95.25251557	71.22975086	14.25649282	0.086547462	0.183444572
CH02_UPb_04	0.063716564	0.001857696	398.1689327	11.26009131	0.477663265	0.02519402	395.5541519	17.20228831	0.019500184	0.000619951	390.3291527	12.28682815	0.055037617	0.003047341	383.7893537	121.8928055	15.72111198	0.462561514	0.738873367	256.3413569	326.5598561	56.06156271	0.262962362	0.015219119
CH02_UPb_04	0.063855595	0.001612257	399.0152828	9.768465712	0.483153566	0.010908543	399.5859831	7.433916962	0.01963365	0.000380636	392.9763776	7.546039078	0.055629413	0.001282395	425.00725	49.68194097	15.68137211	0.396354537	0.99417059	189.8445911	179.7183927	33.39317101	0.237934698	0.062880181
CH02_UPb_04	0.06381801	0.001619087	398.7859381	9.815067732	0.483395019	0.013306668	400.8920409	9.54859965	0.019602023	0.000395793	392.3466634	7.845982806	0.055678337	0.001555644	428.5691666	64.13311368	15.69314506	0.404764655	1.175776728	154.8658666	124.9244747	22.87713667	0.258846063	-0.02033319
CH02_UPb_04	0.064542907	0.001696038	403.1641849	10.27109501	0.544940168	0.024586602	438.6966274	16.12840757	0.020778664	0.000452613	415.650021	8.958722609	0.062136331	0.002814966	639.0602821	92.48366695	15.53325425	0.41162276	0.863455042	102.5999326	120.2415341	23.20236977	0.024048537	0.172856726
CH02_UPb_04	0.064009155	0.001618123	399.9452392	9.800847432	0.522556715	0.017475217	425.2970099	11.5069072	0.020800252	0.000516277	416.0626879	10.21804671	0.059969696	0.001884199	576.8128209	71.45664368	15.64416248	0.393645191	1.226983548	266.6481134	206.0429465	40.54240216	-0.1471029	0.3687265
CH02_UPb_04	0.064216616	0.00169806	401.1845287	10.28950852	0.479641902	0.016600445	396.2876335	11.33982287	0.019678428	0.000383293	393.8632151	7.59898124	0.055020876	0.001975512	376.4347627	77.93032345	15.61764538	0.420432151	0.761471397	116.2845595	146.6064448	26.98058951	0.246678138	0.02791746
CH02_UPb_04	0.063725247	0.001641796	398.218081	9.950783121	0.471490568	0.016177891	390.7330712	11.23660897	0.019701987	0.000424355	394.3227126	8.408994838	0.054569381	0.001944694	355.2369416	83.0355029	15.72369087	0.408457236	1.215799036	193.0491679	176.416453	32.42180108	0.277220782	-0.00715038
CH02_UPb_04	0.064172212	0.00177062	400.9343327	10.7326504	0.490501019	0.01928399	404.6560734	13.15317847	0.021170252	0.00080931	423.3924018	16.01891828	0.056230898	0.002219453	443.4211469	89.14778631	15.60319718	0.441312378	1.516716602	536.0621965	398.811624	75.50995789	0.124966114	0.189986299
CH02_UPb_04	0.06623927	0.002001209	413.3575877	12.09388206	0.516998025	0.014815638	421.9760247	9.802792436	0.021259521	0.00063412	425.1216668	12.53775306	0.057354915	0.001018137	499.0069138	38.21758442	15.17853347	0.476472302	1.60589716	1199.538646	828.5618575	159.6446053	-0.13314764	0.740766262
CH02_UPb_04	0.06538076	0.00182527	408.2353694	11.02711736	0.504376269	0.032675921	411.9911768	19.9909657	0.021173223	0.000812674	423.4187243	16.03527786	0.057766878	0.00356851	463.5784525	112.6051768	15.33206781	0.410931203	1.344026777	365.7434217	319.1052782	61.06938064	-0.30070814	0.549215944
CH02_UPb_05	0.063416652	0.001637105	396.3468567	9.928537886	0.471695778	0.015079416	392.7434309	9.948059237	0.019628031	0.000416504	392.8578699	8.255202645	0.054855664	0.00183622	376.6348178	73.83638805	15.77751603	0.395436257	1.110729351	197.8864925	210.5489257	39.20202868	0.266742944	0.005858602
CH02_UPb_05	0.069704482	0.002326335	434.2008079	13.97555164	0.875545985	0.141165699	617.115986	68.54336414	0.027825514	0.002927705	552.8281553	56.8657191	0.089989881	0.012047142	1123.385158	200.9639798	14.51747461	0.449994254	1.096531565	299.2142303	327.0425754	92.56667835	-0.82731769	0.885761007
CH02_UPb_05	0.064781892	0.001669892	404.6179897	10.10570411	0.492159686	0.015677541	405.0477413	10.77249372	0.020335806	0.000423772	406.8838556	8.39536052	0.056020355	0.001838798	422.8138542	74.9542382	15.46632914	0.395136121	1.094709128	262.232419	292.0949062	55.81978498	0.183401708	0.070730649
CH02_UPb_05	0.064277741	0.001655228	401.5657301	10.02752136	0.498217081	0.019041488	408.6058098	12.71866546	0.020335608	0.000396857	406.8849824	7.859826229	0.056585954	0.002024198	437.7173313	83.72523885	15.54296366	0.439252053	0.92124909	264.0597465	362.728924	68.88057451	0.083645408	0.174424004
CH02_UPb_05	0.064911247	0.001690071	405.397206	10.23110302	0.493248304	0.01568792	405.8068823	10.65796984	0.020277867	0.000413476	405.7379713	8.190522502	0.05606525	0.001840243	413.0927701	76.21939299	15.44086947	0.404651878	1.085550972	213.164397	242.0555435	46.46503768	0.263503076	0.021029653
CH02_UPb_05	0.066468407	0.001803579	414.7981531	10.90084226	0.500283366	0.016197332	410.5062303	10.94971738	0.020201382	0.000490604	404.2066785	9.717291184	0.055578696	0.001859243	393.8389902	75.11248317	15.09982451	0.411551729	1.219353064	197.8411296	195.534512	37.68520911	0.258687189	0.087777667
CH02_UPb_05	0.064276384	0.001642233	401.5601696	9.947900453	0.479896321	0.014521327	396.8453336	9.936241328	0.019867224	0.000389707	397.6047646	7.721933642	0.055014763	0.001669396	377.4108135	68.88723798	15.5844093	0.400995632	1.075754563	287.7912821	327.5126962	62.38840826	0.091154475	0.158329223
CH02_UPb_05	0.06600777	0.001765176	412.0380947	10.66562178	0.487505324	0.016225257	402.4519686	11.09980924	0.020615429	0.00045574	412.4305965	9.030442092	0.054609252	0.001855459	388.9494471	73.63888475	15.17455827	0.397438159	1.18483323	506.648578	517.1473576	97.61453712	0.246290915	0.046428114
CH02_UPb_06	0.064421979	0.001859419	402.441869	11.26361843	0.483617552	0.022800123	399.749313	15.50583803	0.019771435	0.00059085	395.70706	11.71084428	0.055083151	0.002366002	396.0385332	93.12994856	15.54940735	0.455492504	0.845844215	412.5312546	588.0993034	106.1246993	-0.19699464	0.477190979
CH02_UPb_06	0.063722752	0.001672	398.2078571	10.13827038	0.467089854	0.018222033	388.0433206	12.60044756	0.019375253	0.00043951	387.8534561	8.71570473	0.054188514	0.002149954	358.4595119	97.48392988	15.71794876	0.422082094	1.09245918	279.6123968	304.2505272	54.52640529	0.237366505	0.004725424
CH02_UPb_06	0.064123289	0.002203808	400.6264242	13.34846991	0.484599086	0.030523603	400.4300152	20.6548799	0.019497937	0.000858251	390.2794676	17.03087321	0.055232189	0.003418095	398.6444812	137.0749069	15.62999252	0.535702313	0.891444095	412.0828224	543.512552	97.3443253	0.138722381	0.24047825
CH02_UPb_06	0.066368881	0.002070996	414.1808848	12.51722921	0.499861477	0.017285584	410.7812649	11.54123448	0.02045598	0.000338085	409.2838298	6.698087419	0.055556414	0.001226993	424.2611795	49.26669816	15.141602	0.474264537	0.83541292	1078.990661	1503.171418	280.7254708	-0.29078385	0.778548713
CH02_UPb_06	0.064240872	0.001625815	401.348858	9.853569153	0.527239561	0.023063066	427.4095162	14.8037779	0.020281473	0.000548966	405.7802418	10.87192291	0.060064147	0.00252134	563.1832452	87.57574635	15.58831724	0.403686844	1.0653038	235.1555209	249.4134388	48.30498859	0.277654318	-0.11119876
CH02_UPb_06	0.065379438	0.001676467	408.2468268	10.14657434	0.595136409	0.017430115	473.4146284	11.10135235	0.02106875	0.000438981	421.4089414	8.690419207	0.067221854	0.00187787	830.7325278	58.33031014	15.30949451	0.39658461	1.039857655	472.3630024	504.4363194	97.04241224	-0.15764343	0.403001589
CH02_UPb_06	0.063748304	0.001715001	398.3584586	10.39334849	0.579225933	0.028592786	461.7240232	18.35067626	0.021497041	0.000739893	429.837703	14.6279424	0.066599607	0.003109976	802.5830789	94.04298214	15.7170034	0.4250312	1.093945539	225.8240545	225.9732419	49.04886871	-0.22601338	0.430525654
CH02_UPb_07	0.06545197	0.001652171	408.6804825	9.997635417	0.552767223	0.022761127	444.3077998	14.38867622	0.021370066	0.000552536	427.3336576	10.92390592	0.062137106	0.002491495	640.1098998	85.21927316	15.28071221	0.371111432	1.164636325	236.2263148	217.7656786	43.21246789	0.099646807	0.059827881
CH02_UPb_07	0.062381073	0.001606796	390.0672615	9.748090825	0.477592164	0.012885208	395.4636634	8.859003124	0.01957178	0.000345463	391.7551747	6.848992873	0.056177384	0.001507406	439.3209404	59.17190774	16.06301561	0.412916396	1.043693028	235.2371197	215.3826493	39.68009652	0.148769472	0.156807881
CH02_UPb_07	0.065445865	0.001696727	408.6333116	10.26804949	0.628164536	0.023879153	494.5554546	15.50361163	0.023117946	0.000680884	461.859997	13.45412985	0.070689282	0.002763736	919.5809487	82.84963957	15.3135992	0.402011275	1.374653503	186.6910986	136.971385	30.5182399	0.230500954	0.009880559
CH02_UPb_07	0.063173069	0.001613781	394.8743719	9.784911969	0.481703571	0.013429171	398.2423474	9.188362849	0.019782059	0.000388575	395.9167163	7.699165138	0.05579737	0.001449683	425.9603517	61.46190491	15.85664304	0.406687563	1.122869608	170.2815366	141.7735457	26.48341354	0.099361074	0.193336693
CH02_UPb_07	0.063645382	0.001669529	397.7338084	10.11425087	0.47250147	0.014790214	391.9521608	10.22296071	0.019484647	0.000402533	390.0229336	7.982787283	0.05471629	0.001763776	368.9490567	73.32865986	15.7433306	0.409484339	0.935458989	171.9082248	174.4577115	31.98514952	0.145762705	0.17211725
CH02_UPb_08	0.062880956	0.001628545	393.0978694	9.876730513	0.480434401	0.017047769	396.7668156	11.54424035	0.01989722	0.000444699	398.1880717	8.812676583	0.055606867	0.001863641	404.1243456	77.29761204	15.9377075	0.414168749	1.176381736	119.0162622	93.77894356	17.6171812	0.107408606	0.161313753
CH02_UPb_08	0.063494501	0.001665288	396.8201392	10.0903421	0.46302364	0.015946341	385.2536778	11.1021148	0.018934207	0.000384498	379.1093303	7.625952006	0.053730592	0.001870889	322.4062058	81.37760361	15.77975903	0.41065715	1.010589372	124.5060163	114.4067372	20.20436256	0.182080686	0.083517644
CH02_UPb_08	0.063383842	0.001760234	396.146653	10.67075229	0.47138548	0.014968181	391.5388082	10.36192106	0.01920012	0.000412837	384.3867559	8.189102769	0.054393514	0.001564674	370.8790917	66.80872896	15.81150534	0.441036746	0.717950505	155.7790791	202.6512639	38.57759954	0.010675989	0.392211079
CH02_UPb_08	0.063573977	0.001640709	397.3009906	9.944780109	0.484897491	0.016084024	400.0167528	10.97865217	0.020205017	0.000382114	404.3001032	7.570989321	0.055993346	0.001901869	417.0954065	80.72615726	15.76154751	0.408647459	1.08851001	124.5017043	107.0116295	20.3646013	0.243744724	0.008565345
CH02_UPb_08	0.063477554	0.001620586	396.7206924	9.819063353	0.467194844	0.012952971	388.3318136	8.87794102	0.019625955	0.000390978	392.8221977	7.749755241	0.054055432	0.001542099	343.02873	63.26287173	15.77944439	0.398375603	1.10378085	178.5470131	150.6523241	27.64830309	0.258311804	-0.00866167
CH02_UPb_08	0.064568795	0.001636991	403.3341523	9.912009182	0.4852609	0.015726043	400.3661812	10.67123663	0.020365465	0.000414188	407.473509	8.205676274	0.054840395	0.001718785	377.7654742	73.487564	15.49027636	0.410568722	1.139774489	165.9031693	135.7766447	25.9572851	0.128285948	0.132714123
CH02_UPb_08	0.063858154	0.001659404	399.0258973	10.05282297	0.501152836	0.018154465	411.099613	12.22229524	0.020070102	0.000423154	401.6244738	8.381868647	0.057722731	0.002080477	493.2974859	83.67708359	15.68723279	0.406217996	1.005418732	172.9058172	161.5629586	30.02539203	0.117067952	0.130287052
CH02_UPb_08	0.064154268	0.001678168	400.811461	10.16794041	0.481177311	0.018688741	396.9337154	12.85139045	0.020035366	0.000432703	400.9286334	8.576618159	0.055028405	0.002240041	374.5516689	96.37235642	15.60062269	0.393988924	1.173112871	108.7107108	86.65370884	16.51795135	0.292297106	-0.09691637

CH02_UPb_08	0.065445167	0.001685732	408.631925	10.19932392	0.540443589	0.021555601	436.362132	14.18560951	0.021523869	0.000520406	430.3857914	10.29357896	0.0604411	0.002389135	561.6106472	88.94258259	15.30991005	0.395686037	1.074989859	134.7129498	119.2229917	23.99679117	0.059261394	0.139512535
CH02_UPb_09	0.064432108	0.001708611	402.4887444	10.34326599	0.47909714	0.013852432	398.0038443	9.030673845	0.020201255	0.000438251	404.2146563	8.682818249	0.0542228	0.001586741	391.9300455	64.31148112	15.56533474	0.40990094	1.188234319	137.6252569	107.0726811	20.2795844	0.333239035	-0.02525496
CH02_UPb_09	0.063653148	0.001652582	397.7788633	10.01699377	0.46984206	0.020477516	388.7674249	14.13651615	0.019897368	0.000461055	398.1885528	9.137531284	0.054071246	0.002383541	312.9324532	101.5051472	15.74472162	0.412731347	1.099675615	111.6462505	96.12048581	18.07771029	0.145717819	0.054564184
CH02_UPb_09	0.063854116	0.001649289	399.0014374	9.992939708	0.472234958	0.014532919	391.7164495	10.03235992	0.019923901	0.000373503	398.7331578	7.400891557	0.054283784	0.001731214	362.0299259	69.62447543	15.68834302	0.405680707	0.854827604	241.6878739	270.621289	50.11100794	0.230840094	0.038342151
CH02_UPb_09	0.064483227	0.001649976	402.8118532	9.994164157	0.489520055	0.012491761	403.7169847	8.52096265	0.020205176	0.000421767	404.2953931	8.35720343	0.055518595	0.00145824	415.0757626	57.64042828	15.51298538	0.380764563	1.0650889	180.5695727	163.663059	32.01980133	0.223303298	0.087147345
CH02_UPb_09	0.063701455	0.00161878	398.0796523	9.808266959	0.480555633	0.014123463	398.9042366	10.14650952	0.02028304	0.000400011	405.8433807	7.924308289	0.055508873	0.001780279	409.1964993	68.2324348	15.72142745	0.398030015	1.088518954	183.9313958	164.0116339	31.13907581	0.293490565	-0.07053952
CH02_UPb_09	0.101902224	0.004388241	625.2756126	25.65080506	4.545291412	0.354676931	1724.021911	62.64658131	0.065172719	0.005071651	1274.431028	95.60436166	0.325411049	0.014244375	3582.75021	65.47538805	9.80295048	0.495461831	0.571369079	819.0783671	1408.652673	849.9249372	-0.8524082	0.955402857
CH02_UPb_09	0.060582637	0.003834436	378.32576	23.217383	3.491362544	0.398821461	1422.176218	97.29935002	0.152848792	0.013881652	2840.95815	244.7805852	0.395057278	0.028697181	3736.178674	151.7010151	17.871361	1.122108571	2.124067586	1236.903999	585.0285219	869.0200957	-0.61153625	0.906803092
CH02_UPb_09	0.063948412	0.00171227	399.5679788	10.37158638	0.481043195	0.017854958	397.615147	12.18612972	0.020067739	0.000487652	401.5714121	9.664506971	0.055054184	0.002080149	376.6667932	87.43453711	15.67138864	0.416934144	1.183193988	214.3002423	184.2147289	34.09498125	0.23783386	0.052622186
CH02_UPb_10	0.061731083	0.001653297	386.118675	10.03418062	0.465163646	0.014982989	386.9207065	10.32587612	0.01931472	0.000393303	386.6559254	7.798306327	0.054987194	0.001768586	382.2068148	72.91038319	16.23747195	0.431053452	0.810243969	254.5203697	318.994711	60.07438698	0.163036239	0.167275318
CH02_UPb_10	0.062958925	0.001682385	393.5587557	10.20719067	0.483808778	0.012308453	401.1566266	8.839278103	0.019820055	0.00039995	396.6675419	7.925650474	0.056446551	0.001612882	437.2394108	65.91622239	15.93576839	0.435888298	1.100067151	295.824233	271.6127586	51.00411946	0.348976572	0.083368369
CH02_UPb_10	0.062040795	0.001608331	388.0007448	9.764214131	0.474513652	0.01432324	393.1563943	9.838391082	0.019465712	0.000393791	389.6442158	7.810453131	0.055652101	0.001655957	414.4363221	65.98642574	16.15394921	0.423023111	1.058211648	252.8722156	243.203929	45.69507113	0.136857264	0.158358973
CH02_UPb_10	0.063576924	0.00170745	397.3030141	10.34625945	0.53087846	0.017453882	430.8014243	11.53034959	0.020786223	0.000513951	415.7845058	10.17329344	0.060975666	0.001963247	600.8419214	69.34264714	15.78220312	0.422573136	1.141790596	225.1233822	200.2796191	40.52610906	-0.08697886	0.390887954
CH02_UPb_10	0.062910574	0.001605623	393.2827622	9.736082993	0.470528021	0.012159846	392.0363527	8.737053982	0.019575672	0.000404659	392.7684756	7.677394537	0.054269382	0.001477224	361.1378183	63.16538685	15.92262095	0.40615734	1.081226798	289.2689905	277.8561069	51.96762549	0.2945144	0.059296208
CR06																								
CR06_UPb_01	0.068338306	0.001768486	426.1180355	10.66726248	0.525670904	0.015094418	428.1420612	10.00320697	0.020955709	0.000591611	419.1421429	11.71335078	0.056167564	0.001682594	436.096724	66.29431894	14.65363583	0.375951036	2.124725908	394.10889	189.8566385	37.76212942	0.263797709	0.021479022
CR06_UPb_01	0.065088948	0.001660513	406.4870072	10.05299859	0.505417905	0.015988756	414.4628183	10.90259516	0.020315511	0.000456063	406.4858887	9.033958019	0.056720606	0.001839146	452.3184716	77.80927246	15.35373032	0.36565967	1.490318796	331.7448095	228.9455986	43.76013038	0.247830283	-0.01483554
CR06_UPb_02	0.066036215	0.001757072	412.2045164	10.62324014	0.520189317	0.023076927	423.3173659	15.42531136	0.021201646	0.000732683	423.9784955	14.49852135	0.057422808	0.00247108	457.2656087	99.84643711	15.17534873	0.403572013	2.472211198	162.2004816	73.00658426	14.41361563	-0.02647521	0.279905416
CR06_UPb_03	0.065880904	0.00179676	411.2594785	10.86859287	0.51156012	0.007636182	419.2908985	5.120358056	0.016699636	0.001650073	334.3302251	32.85718094	0.056469267	0.000636046	466.7286237	25.17698798	15.17963184	0.449962077	13.9928252	2645.681123	306.1237177	34.85431547	0.279872147	0.663578354
CR06_UPb_05	0.065459342	0.00169399	408.7158693	10.24932544	0.507257414	0.01459454	415.4767914	9.807920471	0.020518747	0.000503617	410.4904747	9.973407497	0.056339646	0.00171031	431.1714273	67.74680619	15.3089299	0.398382218	1.403293696	179.5007587	131.5695078	26.37162895	0.242989173	0.035885218
CR06_UPb_06	0.065985661	0.001698605	411.9014569	10.26960903	0.49886647	0.014671973	409.785055	9.983579404	0.021280145	0.000585556	425.5463978	11.59068638	0.05495022	0.001696364	373.2744696	71.10006577	15.18365406	0.388849158	2.407792086	178.1344722	82.76689682	16.82305075	0.319830455	-0.03554797
CR06_UPb_07	0.066580023	0.001680348	415.5057291	10.15752605	0.508313223	0.01170324	416.7662533	7.856183406	0.021126818	0.000434592	422.5524188	8.602676394	0.055631686	0.00125145	422.4885093	50.65841223	15.01403991	0.358340925	1.923866999	451.9021348	240.3482317	48.7002296	0.100414591	0.221992807
CR06_UPb_08	0.068880195	0.002029835	429.37974	12.23136165	0.551570666	0.034954599	444.2909692	22.82995847	0.022371883	0.00102757	447.1383932	20.33073283	0.057927443	0.003609403	485.8089531	139.6651367	14.54553489	0.419995958	1.435139275	249.6520456	178.684647	37.11953246	-0.03408978	0.256686083
CR06_UPb_08	0.066228499	0.001761257	413.3617066	10.64518896	0.540904362	0.017628107	439.5927259	12.18867272	0.021630038	0.000658888	432.4610248	13.02636002	0.059298275	0.001866334	554.6607188	75.34377818	15.10882466	0.421111824	1.610137129	248.4176826	171.029653	33.95794506	0.112023972	0.243410381
CR06_UPb_10	0.067509325	0.001749959	421.1131022	10.56740132	0.540642838	0.014102692	438.136945	9.28617813	0.021934558	0.000454683	438.5339861	8.994050163	0.058501782	0.001634775	539.3161799	57.74502762	14.8353054	0.385837776	1.332386853	518.5829919	403.935035	88.12051584	0.100279314	0.165769646
CR06_UPb_10	0.070643916	0.002019735	439.9551175	12.16976738	0.560157741	0.01739803	450.1605179	11.1534899	0.023323123	0.000762236	465.8875088	15.04412332	0.057054229	0.001402248	499.6159516	56.11696745	14.20472378	0.436869219	1.710734174	414.541421	367.8642086	72.06227968	-0.02655025	0.504258112
CR06_UPb_11	0.066558256	0.001729673	415.366173	10.45347641	0.51530809	0.017308702	423.0813195	10.890025	0.020793657	0.000555002	415.9365977	10.9933624	0.056649314	0.001713981	451.6787651	68.96291937	15.04920083	0.391879568	1.378280777	216.0175084	165.5192816	30.20809001	0.036303071	0.24125908
CR06_UPb_12	0.064694586	0.001717617	404.0961802	10.39823169	0.502524143	0.01824896	412.5704458	12.29744053	0.020317162	0.000620403	406.5049035	12.29459258	0.056390619	0.001969337	445.3309457	78.98114669	15.47871436	0.410844152	1.367164208	253.0147998	194.8185044	33.85912371	0.04732203	0.234852239
CR06_UPb_12	0.068248631	0.002130062	425.5761808	12.86322748	0.693902397	0.055985443	533.1003599	33.10382223	0.028250167	0.001047753	563.0477915	20.59539396	0.07463764	0.00666996	1020.711157	172.4903069	14.67445896	0.469795731	1.697753965	267.3261248	165.6526934	41.77228982	0.483371349	-0.26692059
CR06_UPb_13	0.063864917	0.001647944	399.0635378	9.985278283	0.550943342	0.018120611	443.9371369	11.85062132	0.017143087	0.000495633	343.517337	9.85414386	0.062493841	0.002142746	659.511482	72.37621724	15.66935905	0.420740621	1.275650673	165.2497478	139.7001113	21.92819812	0.289333886	0.003183445
CR06_UPb_13	0.065821033	0.001709787	410.9090222	10.3480475	0.523253223	0.018345503	426.0126748	12.25083682	0.021032251	0.000513045	420.6678228	10.15579728	0.057800495	0.002128514	482.5233803	85.74421057	15.19026532	0.430513149	1.995448468	165.7382079	87.20308651	16.27402229	0.292551253	-0.06939956
CR06_UPb_14	0.066418687	0.001816502	414.530697	10.98082742	0.515792864	0.020426462	421.7858259	13.64748159	0.020579407	0.00085079	411.6955421	16.8635173	0.056073742	0.002275156	439.1257435	90.08364738	15.07110468	0.413417914	2.440429551	476.3777108	204.0361478	36.22361311	0.231151096	0.036249305
CR06_UPb_15	0.065188005	0.001693777	407.0729119	10.2474237	0.492847325	0.016997595	405.3065168	11.54208343	0.02059804	0.000546977	412.0510494	10.83566784	0.054818335	0.001885694	374.1543118	73.88547619	15.37392666	0.397470975	1.527578659	163.8169282	113.7656274	20.92176952	0.028009621	0.219646824
CR06_UPb_15	0.065817391	0.001691995	410.8846216	10.23484701	0.494096165	0.014372626	406.6096769	9.743532938	0.020587516	0.000509104	411.852188	10.08357208	0.054443067	0.001562099	357.9376783	65.60624295	15.19801179	0.372192572	1.842083134	166.4779545	93.4510853	17.43353434	0.123105282	0.156636196
CR06_UPb_16	0.062660954	0.00164203	391.7601542	9.962280567	0.484402197	0.015760989	399.7453335	10.77425215	0.01368896	0.001194802	274.4856947	23.80229195	0.056187081	0.001777299	442.6610987	72.67216681	15.99888331	0.424665673	1.151572151	137.4530396	151.566607	15.14557924	0.080423367	0.198642075
CR06_UPb_16	0.065232221	0.001714659	407.3362262	10.38328556	0.510625111	0.016374158	417.4948363	10.93791515	0.020486972	0.000447151	409.8740628	8.857051782	0.05616821	0.001850096	443.0199215	74.42312369	15.37009819	0.415234131	1.860670786	158.0716156	87.2780962	16.39315916	0.148986548	0.126957134
CR06_UPb_16	0.065480067	0.001673787	408.8457508	10.12689	0.500262287	0.01574919	410.5167309	10.78455298	0.020227842	0.000478159	404.7328862	9.477089474	0.05537512	0.001717167	424.2490369	64.27524776	15.29837484	0.392901425	1.770332637	160.8018079	92.75320694	17.36771627	0.092522249	0.187633299
CR06_UPb_17	0.065957302	0.001714831	411.7337391	10.3672321	0.501893792	0.013133542	412.32803	8.834751494	0.021172872	0.000530218	423.4499004	10.49725869	0.05543995	0.001498565	409.7775266	60.3643382	15.18551764	0.391959433	2.260532751	280.1686518	126.1771099	24.13336041	0.233131112	0.082239962
CR06_UPb_17	0.065610733	0.001719476	409.6293067	10.40039561	0.511195892	0.014907676	418.1799406	10.00822681	0.020432823	0.000458162	408.8012008	9.073367477	0.056776512	0.001567322	456.5867823	61.25260033	15.27642639	0.401097257	1.609706356	235.7041277	141.8599739	27.02566621	0.027752945	0.330940106
CR06_UPb_18	0.066055505	0.001648597	412.3356315	9.967689435	0.491710838	0.013306626	405.1358822	9.137718355	0.02060412	0.000439124	412.1963066	8.696553945	0.054156867	0.001474829	372.1693558	56.64561652	15.15316931	0.377309029	1.871540869	268.7185583	139.4079512	26.63242014	0.133141901	0.087427371
CR06_UPb_18	0.065443737	0.001629708	408.6363012	9.862804882	0.508137556	0.01012234	416.6732872	6.839541935	0.020657823	0.000444385	413.2591719	8.801184215	0.056469111	0.001175664	454.2821668	47.38671224	15.29388701	0.384837478	1.931001271	362.8675621	182.7703822	35.2867476	0.296755995	0.011213653
CR06_UPb_19	0.065662081	0.001705226	409.9411377	10.32072711	0.505313865	0.015181027	414.0789594	10.24685815	0.02028686	0.000474274	405.9038361	9.394678635	0.055908469	0.001742159	411.9184056	70.88476947	15.23786311	0.383709732	1.31131912	126.9553132	93.7492357	17.86013988	0.182734201	0.119067424
CR06_UPb_19	0.067597988	0.001779801	421.6351552	10.74004963	0.509403539	0.016744131	416.6325694	11.23192791	0.020730507	0.000573121	414.6697441	11.34307418	0.054668723	0.001833173	368.9268338	81.80767271	14.8305088	0.385179363	1.83349866	119.2322523	64.73559297	12.48193293	0.456709881	-0.05915596
CR06_UPb_19	0.065352194	0.001759084	408.0505475	10.64138125	0.502435072	0.0202737	411.1185974	13.55090377	0.020818937	0.000585876	416.4130538	11.59857746	0.055496866	0.002252444	380.9357241	93.79570016	15.3262538	0.394336344	2.363382034	109.8743384	45.36624685	8.94610003	0.277513337	0.025368282
CR06_UPb_22	0.080618537	0.002802753	499.5535338	16.78371426	0.64064095	0.020415902	500.8960303	12.63246287	0.026513196	0.00089472	528.7600027	17.63304453	0.057667734	0.001088024	503.9782925	41.06238425	12.55226563	0.47867542	2.386922979	584.7593603	228.9168001	51.93141064	-0.01005995	0.795962513
CR06_UPb_24	0.064226011	0.001802106	401.2180566	10.92917474	0.491072826	0.012590585	404.7873891	8.599912146	0.019534921	0.000500541	390.9950526	9.925634083	0.055657848	0.001533409	409.4958875	62.88324859	15.64948383	0.462000423	1.652582674	276.0594471	163.2088048	30.23317199	0.350255476	0.107835399
CR06_UPb_24	0.066724821	0.001709166	416.3713188	10.32765792	0.509955729	0.013198052	417.5081151	8.875367003	0.021049503	0.000415957	421.0195171	8.233810064	0.05559185	0.001483583	408.305677	61.4310652	15.01331275	0.385218383	1.565649994	234.7670366	147.0682237	29.51876208	0.282185035	0.056667521
CR06_UPb_26	0.248125368	0.007109777	1428.092823	36.63674104	3.292943657	0.097596884	1477.197534	23.06998728	0.079010186	0.002720105	1535.756825	50.66333465	0.095869117	0.002116214	1544.93409	43.88092811	4.052427532	0.114591697	1.415525294	104.7233768	72.51699281	53.68069378	-0.18594092	0.60835514
CR06_UPb_26	0.252542763	0.006610682	1451.351411	34.00300385	3.279960096	0.076930426	1473.587497	18.34292021	0.074865483	0.00229824	1458.61106	43.19548695	0.094841709	0.002170181	1513.742798	43.74086403	3.966503882	0.103731899	1.736059505	78.8643211	44.78130451	30.79947559	0.181126533	0.304181371
CR06_UPb_26	0.251712804	0.006340402	1447.135019	32.64815113	3.278364961	0.044976606	1474.559409	10.74277333	0.063732925	0.001476892	1248.480117	28.04865915	0.094412233	0.001211322	1510.705905	24.65365462	3.977908194	0.100406009	1.758538314	173.4852281	98.72100234	58.88433839	0.182427034	0.348756496
CR06_UPb_27	0.066180381	0.001701288	413.0787691	10.28947385	0.500592063	0.018477602	410.2468886	12.55296535	0.020499279	0.000511111	410.1026444	10.12382308	0.05495005	0.002100491	366.9633349	86.93078669	15.11735795	0.375487796	1.583561342	131.0263556	81.97623896	16.00127396	0.274340534	-0.0561064
CR06_UPb_27	0.065952693	0.001689306	411.7035279	10.21769146	0.500507453	0.01278687	412.4996016	8.314984555	0.020797094	0.000429021	416.0188644	8.494488019	0.055051281	0.001414193	387.2025201	60.42929545	15.18986642	0.392747956	1.263526579	214.8151816	168.815837	33.3481529	0.145552851	0.147615436
CR06_UPb_30	0.066616305	0.001756988	415.7035317	10.62010725	0.510028698	0.023043682	415.6660222	15.48633356	0.02121924	0.000593504	424.3381129	11.7447616	0.056088905	0.002612596	395.8025006	100.9767269	15.05252593	0.400986013	1.999206901	102.995485	50.98156762	10.19451652	0.048503664	0.159769165
CR06_UPb_30	0.066203388	0.001744295	413.2075476	10.55212508	0.507858471	0.020420031	414.7258535	13.86775144	0.02086533	0.00064316	417.3157943	12.73327246	0.055703995	0.00230025	386.4591941	95.89766631	15.11912993	0.387390655	2.235343399	91.10382238	43.81487252	8.575869954	0.230771297	0.017337192
CR06_UPb_30	0.065997188	0.001779686	411.9659313	10.76111771	0.504816061	0.025626248	412.5674048	17.48429843	0.02082763	0.00072654	416.5786871	14.37310633	0.055922343	0.002960263	395.1351067	124.1893425	15.1876117	0.410362001	2.369796506	109.0800714	45.96055869	8.886123921	0.3587246	-0.14279997
CR06_UPb_31	0.071803826	0.001903248	446.9710608	11.43862841	0.550261298	0.012370792	444.3757702	8.103721535	0.023330972	0.000477203	466.1224329	9.428501529	0.055565453	0.00124307	422.5305349	49.31188366	13.96760773	0.364521289	1.960916355	348.3358432	179.3237034	39.72249083	0.183420701	0.222408327
CR06_UPb_31	0.062621334	0.001796434	391.5124341	10.88580698	0.504609583	0.013029184	414.3267429	8.7442453	0.020450946	0.000528369	409.163109	10.46564077	0.058381961	0.001336376	533.1776899	49.1545685	15.96290879	0.486032865	1.728789479	792.7656785	453.6334127	82.73637011	0.138920753	0.547483365
CR06_UPb_35	0.055422568	0.00201624	347.5658337	12.31688561	0.533846706	0.016801491	432.8877055	11.00882762	0.011736466	0.000957376	235.6232608	19.10513496	0.070745037	0.002680388	902.4736725	76.95073726	18.29605374	0.663804895	1.180437383	765.2418908	779.4378644	74.86536667	0.51259991	0.170453578
CR06_UPb_37	0.079314022	0.0024557	491.8672897	14.69040539	0.626138069	0.014015862	492.7764474	8.726526297	0.025881226	0.000755753	516.3563539	14.90293945	0.056895851	0.001062601	473.3348703	42.05851751	12.73121499	0.419057434	2.247898464	327.0400937	144.2317463	34.17784994	0.125805116	0.644042659
CR06_UPb_37	0.065487746	0.001678048	408.8908176	10.15100051	0.493597063	0.016992886	405.7538826	11.53029213	0.020790104	0.000539485	415.8544981	10.68100634	0.054161858	0.001770823	356.7949609	75.04993248	15.29819001	0.391730152	2.223541647	143.8188424	63.08801943	12.19983836	0.02544075	0.205583768
CR06_UPb_38	0.067863269	0.002889093	423.2095112	17.45329995	0.544454769	0.042214415	439.9610413	27.37712821	0.022057451	0.001813156	440.8682677	35.84841504	0.057305395	0.003064466	486.465928	115.5929471	14.80589675	0.651255851	1.377472952	599.7932555	449.5128916	85.69142207	-0.49062823	0.79014229
CR06_UPb_38	0.064296533	0.001716226	401.6817142	10.39167104	0.51460666	0.005863946	421.4413759	3.929211626	0.023654144	0.000983844	472.4248698	19.41006769	0.05809433	0.000327715	531.7012451	12.37779002	15.57981341	0.413066317	1.982625834	4756.310802	2354.308266	498.1538909	0.115807325	0.823837842
CR06_UPb_39	0.067071573	0.001794562	418.4667796	10.83628766	0.523195904	0.016172027	426.5545743	10.78328715	0.020371029	0.000457946	407.5891411	9.073412194	0.056845098	0.001776894	465.0320292	70.81417891	14.9348178	0.396262188	1.295350576	271.4118809	204.8599749	37.02248768	0.352865387	-0.09325654
CR06_UPb_40	0.066595317	0.001879015	415.5804572	11.35294003	0.504991994	0.024765437	413.5121281	16.8524583	0.020675818	0.000727261	413.5931279	14.40132301	0.054903791	0.00269558	362.1869086	116.8269594	15.05222217	0.42275713	1.769230105	142.307206	84.1954018	15.37145176	0.112477021	0.148510206
CR06_UPb_42	0.065650423	0.0017612	409.8576559	10.65198051	0.512404269	0.022299941	417.4568691	15.0380847	0.020881279	0.000651616	417.6316105	12.89406749	0.056328021	0.002378953	394.578577	101.1219269	15.28188793	0.411248714	2.015244886	90.60982038	44.82075179	8.597689949	-0.05225002	0.295453762
CR06_UPb_42	0.06727242	0.001823668	419.655651	11.01540423	0.526167428	0.026640487	425.6397403	17.69392776	0.020608426	0.000759422	412.1935592	15.03451293	0.056572676	0.002966936	410.9367139	113.7506831	14.86046826	0.405047187	2.235075595	71.73098587	32.43770116	6.142559015	0.299209134	-0.06493086
CR06_UPb_42	0.065908545	0.001759332	411.4206945	10.6388683	0.487248319	0.018454362	403.2097599	13.201457	0.020864519	0.000570523	417.322239	11.29908927	0.053473935	0.002095749	315.0234072	91.43416574	15.21949405	0.407370531	2.439193799	111.4312024	44.19987349	8.701838822	0.245696763	0.019740859
CR06_UPb_43	0.066158397	0.00168813	412.9526753	10.20860788	0.506875261	0.014973115	417.0966439	9.599952536	0.020696298	0.000482704	414.0183102	9.558588442	0.055497377	0.001579084	417.7722864	62.03720245	15.13598503	0.389460115	1.334804743	209.4672282	153.0024171	29.58774519	-0.03927775	0.321033143
CR06_UPb_43	0.066159826	0.001793312	412.9491644	10.84427355	0.486650969	0.017514896	401.5604111	11.88642707	0.020600179	0.000558427	412.1096139	11.0578708	0.053309375	0.001934946	308.1950037	84.43883169	15.15060931	0.41422741	1.437904174	182.6634276	126.0222151	23.66319358	0.253495144	0.100036415
CR06_UPb_44	0.066363593	0.001771674	414.1712076	10.70483161	0.50234618	0.018030477	411.5512316	12.19663193	0.020795423	0.000581745	415.950487	11.51648746	0.05463915	0.001976448	345.8169065	84.52586644	15.11522221	0.400949917	1.554609306	151.6917231	93.67402131	18.5080022	0.129689698	0.15628889
CR06_UPb_44	0.06622629	0.001717107	413.3532013	10.38142498	0.504706991	0.018643092	413.046614	12.51350194	0.020442279	0.000536049	408.9680075	10.61647072	0.054959854	0.00210617	352.6833614	89.815016	15.10912618	0.411579841	1.898282584	126.7372376	64.4256598	12.50770158	0.312094796	-0.07883551
CR06_UPb_45	0.063512043	0.001968164	396.8444023	11.914117	0.498618171	0.010770101	410.1406043	7.269547232	0.019643004	0.00044586	393.1490365	8.841491241	0.056628743	0.000796848	468.7402345	31.53736501	15.88496463	0.479724859	3.34172739	711.6523281	207.4727312	38.80879315	0.118036386	0.793149908
CR06_UPb_46	0.064774783	0.001858584	404.5657909	11.25143065	0.523007463	0.013708489	426.6937962	9.168076015	0.020152438	0.000518059	403.2541044	10.26116447	0.058023421	0.00111295	523.3606826	42.47057026	15.48032179	0.445956931	6.798682783	1613.875626	230.9700629	42.52491348	0.098011881	0.522756673
CR06_UPb_46	0.067368949	0.002133783	420.2334505	12.8844585	0.581810632	0.019448596	464.8988582	12.43882332	0.018246158	0.000500983	365.4534447	9.949572286	0.062182093	0.001394311	672.6576203	47.20153404	14.90348704	0.475165512	0.993336666	1047.696107	1065.659256	179.2276962	-0.3448578	0.791139399
CR06_UPb_47	0.065768832	0.001725616	410.5824385	10.44216873	0.495529438	0.015906736	407.3093752	10.79350119	0.020282697	0.000526405	405.8089413	10.42926599	0.05437749	0.001837123	352.3205079	81.63287142	15.24424402	0.40793898	1.578238422	143.5054594	92.01594185	17.35797597	0.284521477	-0.01248776
CR06_UPb_47	0.066513478	0.001779607	415.0757361	10.74958356	0.4857562	0.018550821	400.1219344	12.64647321	0.021075158	0.000537309	421.5000239	10.63873308	0.052624226	0.001960759	254.9269373	89.54385891	15.0825914	0.399735389	1.701590978	104.4549122	59.96356502	11.91298497	0.095197305	0.20559679
CR06_UPb_49	0.065744121	0.001718674	410.4350802	10.39936092	0.509217649	0.020196199	415.8170914	13.55646851	0.020731789	0.000582323	414.691464	11.53026063	0.055850796	0.002222857	415.9618177	90.20403922	15.24724088	0.4056873	1.819697331	102.7375142	55.04234234	10.77954075	0.175499262	0.064201215
CR06_UPb_50	0.065425007	0.001757677	408.5127774	10.64271394	0.506988031	0.018585718	415.4638011	12.64467435	0.019805696	0.000562447	396.3750218	11.14884613	0.056242251	0.002099664	432.6567697	88.4813736	15.31168868	0.423000521	1.92108251	161.0504246	82.34520136	14.88531422	0.208680828	0.110368394
CR06_UPb_50	0.066408199	0.00176066	414.4506327	10.64105767	0.507157678	0.015899679	415.4547697	10.66773897	0.020473854	0.00047387	409.6145728	9.384831932	0.055311435	0.001711476	407.5089835	73.36730278	15.09351008	0.399893144	1.444074502	140.788325	101.5819236	18.07536441	0.110452132	0.217603955
CR06_UPb_57	0.066811402	0.002395322	416.7652654	14.47715149	0.51100421	0.01416443	418.3664954	9.512472225	0.019506674	0.000784182	390.3863631	15.5562266	0.055487445	0.001020869	421.8506666	41.67687782	15.15342596	0.561953845	2.795119389	951.0250284	341.0808934	59.34228907	0.243130511	0.767167079
CR06_UPb_59	0.067138314	0.001745547	418.8633052	10.54748014	0.515976302	0.011740903	421.7420746	7.883167497	0.01967678	0.000511476	393.804892	10.14628824	0.055549043	0.001276671	422.5537113	49.96624311	14.90317186	0.372506046	1.370001725	319.9544473	236.1565324	41.31975152	0.229797508	0.151336923

CR06_UPb_59	0.06704403	0.001743804	418.2933823	10.53512898	0.49676405	0.015526133	408.2253834	10.45746056	0.021328241	0.000496496	426.5199178	9.819742641	0.053581077	0.001727385	348.6371087	76.02899704	14.9496081	0.391261257	2.247297242	119.2218382	54.52526648	10.24928684	0.295575364	-0.05723384
CR06_UPb_60	0.065481297	0.001680498	408.8630844	10.1701743	1.027175889	0.075968062	709.1708463	37.36523145	0.031395483	0.00187427	624.4346523	36.68804847	0.113248178	0.008171547	1783.212138	130.0873944	15.25485575	0.432614492	1.245399332	205.5449525	167.9517313	43.69787587	-0.34391625	0.436316731
CR06_UPb_61	0.068117495	0.002058517	424.7618264	12.41836986	0.534029863	0.05054627	429.4397578	31.91113806	0.022802544	0.001654268	455.4655551	32.6159971	0.056794208	0.005384146	364.7197902	192.7209663	14.72772399	0.442522552	1.709421678	111.219422	73.46504347	13.07412761	-0.02226427	0.153615575
CR06_UPb_63	0.067994395	0.00179986	424.0276221	10.86313505	0.534991446	0.021375788	433.0057483	14.11997773	0.021545383	0.000675299	430.7770501	13.36377107	0.057070069	0.002292339	456.7955587	86.00080985	14.71806792	0.37207896	2.255616142	99.92248738	45.26753351	8.538676298	0.148706143	0.12932576
CR06_UPb_65	0.066209868	0.001729961	413.2576385	10.4589286	0.500904723	0.013686186	411.5392106	9.212776521	0.020390125	0.000445608	407.9617463	8.829093634	0.055355665	0.001553103	403.4067527	62.11841508	15.13168917	0.396346967	1.532672055	199.1574427	132.4327272	23.53785098	0.101559728	0.261273553
CR06_UPb_65	0.067920402	0.001791341	423.5786319	10.80620479	0.652498522	0.032875828	505.4296187	19.47220622	0.027725973	0.001622238	552.2043771	31.80493441	0.069503467	0.003247096	859.8959834	95.40206865	14.76314718	0.383607728	2.325325936	125.5538655	57.52219931	13.50109563	-0.24979207	0.418883506
G_NIST610																								
NIST610-3	0.228634809	0.00616386	1326.937632	32.00213474	28.98597205	0.326629433	3451.648826	10.45738962	0.498713882	0.007417664	8176.687302	100.1372133	0.910510665	0.005095648	4967.22332	0	4.388383069	0.108439727	0.93418995	305.4795914	330.3552995	1539.998891	0.374809116	0.985292429
NIST610-4	0.228040274	0.005971793	1323.929334	31.14156504	28.89440582	0.28494458	3448.829016	9.40483657	0.500877205	0.007329817	8206.034124	98.7262911	0.910609671	0.003644186			4.396095038	0.108724575	0.937374651	315.988736	339.2253214	1594.032265	0.107764984	0.998227407
NIST610-5	0.228417642	0.005950553	1325.926693	31.12441172	28.43373114	0.298446744	3432.877539	10.14753011	0.494767558	0.00727918	8123.532999	98.28212216	0.910979052	0.004763065	4841.360684	0	4.388436352	0.110898929	0.931044159	325.8775265	354.0148226	1598.55463	-0.24866254	0.995515742
NIST610-6	0.232507538	0.00632149	1347.19139	32.61973111	29.08230158	0.328046457	3454.882331	10.73200986	0.499899175	0.007478837	8192.616615	100.9033054	0.912633449	0.004554444	4963.119533	58.44004396	4.315794314	0.105410946	0.932972635	313.5585947	338.1337297	1539.19774	0.353234822	0.992918663
NIST610-7	0.232868118	0.006385908	1349.045775	32.72208974	28.99890863	0.367092474	3451.834472	11.35463031	0.5008398	0.007633451	8205.058753	102.540775	0.911810853	0.004734622	4976.731653	0	4.309418806	0.100897016	0.932415491	308.6621541	331.1384079	1513.123732	0.145323731	0.996733306
NIST610-8	0.228319275	0.005968957	1325.401351	31.27519937	28.61948881	0.303528927	3439.250431	10.25475142	0.495093561	0.007393153	8127.770896	99.80060177	0.913955766	0.004328379			4.39084744	0.113239365	0.932760725	319.2445965	341.6020835	1552.744589	0.287028592	0.99820535
NIST610-9	0.228871372	0.006266033	1328.114543	32.67374087	28.67562889	0.326068564	3440.991954	10.91720332	0.494435059	0.007381554	8118.870436	99.77071862	0.917579862	0.005525694	4962.728294	48.976491	4.38670059	0.113854516	0.929704829	316.0388926	341.4254998	1542.785546	-0.22409548	0.988039291
NIST610-10	0.229881206	0.006018868	1333.591735	31.50833069	28.70728997	0.296319383	3442.359832	9.991615332	0.498147653	0.007460561	8169.014845	100.3479784	0.910738826	0.004520241	4996.670923	0	4.360991613	0.113030429	0.932605849	306.5835396	329.3774462	1496.23387	0.333743924	0.833171308
NIST610-11	0.23097171	0.006081741	1339.280779	31.80111252	28.79369214	0.297642775	3445.3001	10.03752741	0.498511074	0.007472391	8173.902924	100.623382	0.916601571	0.004729055			4.341225332	0.113035827	0.934940888	301.6876207	312.7466495	1461.581345	0.34360052	0.859816269
NIST610-12	0.22891327	0.00611097	1328.43051	31.94384565	28.69725357	0.343752673	3441.598174	11.26414646	0.49698415	0.007812019	8152.637933	104.5287185	0.919844882	0.004702355			4.382569941	0.113357963	0.93394434	321.0715273	335.7196177	1577.913836	-0.06722693	0.863998137
NIST610-13	0.229602914	0.006031271	1332.121501	31.43226226	28.68607536	0.380483336	3441.048297	11.80814867	0.493417428	0.007371729	8105.124745	99.68722048	0.916802052	0.004263671			4.366315678	0.108944002	0.930459772	373.5225315	421.6550422	1980.351064	-0.08323437	0.994938574
NIST610-14	0.231559308	0.006017712	1342.405227	31.4446231	28.80360496	0.271619863	3447.278102	9.557244671	0.496856402	0.007518242	8151.44138	101.6623674	0.915583214	0.005042025			4.328327306	0.110869543	0.928322013	351.2778668	390.0800665	1836.526729	0.288332407	0.809457832
NIST610-15	0.230133253	0.005976929	1334.949713	31.30097617	28.91411788	0.29240683	3449.472277	9.815791043	0.499243419	0.007308412	8184.077116	98.56931435	0.916297924	0.004109381			4.354835835	0.112776672	0.93280572	325.0532317	342.7567269	1624.14783	0.208679999	0.850705932
NIST610-16	0.227435527	0.005937078	1320.775892	31.09202567	28.51740166	0.291410434	3435.862543	9.880123278	0.493463945	0.007324016	8105.831962	99.12139404	0.9151918	0.004081948	4954.318311	66.56405972	4.407303081	0.112124291	0.933805644	337.4589223	357.5302515	1677.652851	0.451145918	0.912086855
NIST610-17	0.226500899	0.00608713	1315.759395	31.71464646	28.61832277	0.309839343	3439.202338	10.35156042	0.496473595	0.007437972	8146.396993	100.5628241	0.914649977	0.004712191			4.429031007	0.109809648	0.931441068	401.2425352	448.4900419	2090.387905	0.344938828	0.942655837
NIST610-18	0.227276306	0.006009668	1319.88494	31.42260569	28.70533573	0.311752596	3442.139518	10.42146643	0.498292022	0.007353746	8171.097056	99.11670113	0.914306048	0.004084229	4936.475661	0	4.412368783	0.112055611	0.931366037	404.0305948	451.3918934	2124.888271	0.226916841	0.916340482
NIST610-19	0.22712111	0.005982959	1319.088474	31.35098301	28.7469437	0.296321256	3443.709764	9.95001069	0.498768265	0.007494518	8177.318061	101.3667606	0.916121202	0.004366876	4933.24637	0	4.414865272	0.113673766	0.932246091	344.3044545	374.2137924	1732.002038	0.502601332	0.891103994
NIST610-20	0.229248187	0.005905385	1330.333444	30.90606334	29.03027146	0.294569968	3453.377656	9.835346094	0.502366299	0.00735925	8226.095327	99.0159503	0.917394589	0.004232989			4.370675148	0.110480383	0.933197678	346.1452539	373.1455103	1739.197713	0.078721133	0.879196658
NIST610-21	0.229224146	0.005937448	1330.196079	31.1004799	28.89789517	0.285005346	3448.995061	9.527573327	0.500364874	0.007409989	8199.066189	99.87299832	0.913383034	0.004711158			4.371645265	0.112232876	0.932363466	318.9411224	342.707716	1614.035852	0.320384964	0.822799964
NIST610-22	0.227323923	0.005875526	1320.226939	30.78695893	28.70405402	0.291978164	3442.293743	9.784481125	0.499607123	0.007406478	8188.804797	100.0353978	0.914102932	0.00458196	4942.765238	0	4.408069051	0.111721414	0.939412764	319.8412457	340.764852	1599.902322	0.405577327	0.901038614
NIST610-23	0.227702857	0.005880648	1322.214324	30.8218284	28.77609871	0.279037774	3444.836675	9.402458783	0.496573884	0.007260207	8148.043899	98.08955179	0.908484328	0.004491681			4.400846806	0.111871159	0.93000511	316.642449	334.9253597	1566.109957	0.269437056	0.818801967
NIST610-24	0.228390185	0.005892763	1325.824562	30.8654784	28.71828874	0.260444798	3444.482939	9.232194374	0.499451528	0.007183697	8187.049297	97.09081835	0.908011385	0.004172973			4.38746664	0.111369433	0.933848649	315.6050596	334.3494947	1558.283464	0.116320223	0.875018923
NIST610-25	0.231615219	0.006017563	1342.683718	31.42770051	28.80668772	0.32011033	3445.53901	10.55971056	0.50020375	0.007652863	8196.395533	102.7802901	0.905027807	0.006241306	4993.914255	1.561903885	4.318803136	0.119669507	0.930621547	332.2738057	352.1288791	1699.915587	0.807076639	0.159327311
NIST610-26	0.230842543	0.006176766	1338.529061	32.18345901	28.60637773	0.318737465	3438.695441	10.60758413	0.500611909	0.007609493	8201.998648	101.9302948	0.900801802	0.004750592	4986.868161	11.73352411	4.346079196	0.111068062	0.93480952	344.52663	363.3313138	1785.4442	0.200633122	0.927521471
NIST610-27	0.232083378	0.006030896	1345.134714	31.4625831	28.82797054	0.281330125	3446.574594	9.421322557	0.499600942	0.007358201	8188.769774	98.91253624	0.904768909	0.004775697	4995.489717	0	4.318897145	0.109265509	0.927481961	351.6883742	372.8907469	1840.53912	0.179948981	0.858803862
JD01m1																								
JD01m1_UPb_	0.065120293	0.001631223	406.6776609	9.871122504	0.500389661	0.011741649	412.6374724	7.540481606	0.020211796	0.000381211	404.4360311	7.551997548	0.055264323	0.00127899	420.6437697	52.09633957	15.37154054	0.383929965	1.477835343	338.5004851	236.5232944	42.68192929	0.273410203	0.042092916
JD01m1_UPb_	0.06779664	0.001756455	422.8422235	10.60817911	0.514330254	0.012257237	420.6439201	8.200848129	0.021319741	0.000408583	427.3742698	8.500089841	0.055040991	0.001287124	403.3635913	49.44243974	14.77909877	0.389502243	1.65978913	405.9711542	247.7983046	46.94666441	0.067461102	0.268420421
JD01m1_UPb_	0.065516539	0.001677006	409.0675424	10.14207324	0.512479187	0.016386098	420.579007	11.47438105	0.020649945	0.000381696	413.1149223	7.558639972	0.057073477	0.001870307	456.6872271	73.21128264	15.28808541	0.387742883	1.034889519	220.9923207	219.0704095	39.47139758	0.074675137	0.18599029
JD01m1_UPb_	0.06529602	0.001695373	407.7366906	10.26203551	0.504830504	0.016857979	414.0440329	11.22390448	0.020164263	0.000441371	403.4922111	8.745961901	0.056352534	0.001802159	443.2913944	68.39820567	15.33599944	0.403234036	1.141342097	348.0798657	316.3417383	54.19321004	-0.02222065	0.288672044
JD01m1_UPb_	0.177535794	0.006710926	1052.022499	36.76801263	14.37006317	0.510281594	2780.160991	40.53075356	0.101630633	0.005192512	1951.430625	94.74825983	0.600721087	0.019791833	4476.749732	45.17981001	5.719299058	0.216550078	0.304980004	9.130247838	31.99747147	25.94499858	0.054249964	0.528272113
JD01m1_UPb_	0.199454281	0.007489084	1171.153585	40.19658005	17.1168389	0.653218798	2930.132362	37.25526912	0.129410262	0.004047253	2457.951315	72.45048736	0.633482993	0.027126586	4550.742162	54.0652034	5.061240157	0.200601177	0.350925982	7.323487793	21.55468656	23.62653904	0.39432772	0.378619763
JD01m1_UPb_	0.067076414	0.001819762	418.4868695	10.99363554	0.506662858	0.021357129	414.5976439	14.38650013	0.020987292	0.000554351	419.7746113	10.97656852	0.055203641	0.002337818	373.2702964	99.41456614	14.94489442	0.407861656	1.404352032	139.6288818	102.4191768	18.29207454	0.152446545	0.120909278
JD01m1_UPb_	0.186540068	0.007165174	1100.927692	38.97658455	15.53383512	0.597496962	2839.03895	34.67498787	0.090603638	0.003000369	1751.52568	55.47806352	0.608018402	0.018936135	4508.80152	45.39830754	5.44911821	0.209393953	0.260240212	8.168915765	32.50916462	25.69877061	0.220396832	0.59668928
JD01m1_UPb_	0.194712746	0.008831537	1144.609532	47.68301052	16.10254447	0.684519657	2866.715841	44.42856276	0.094620911	0.002924222	1826.297986	54.1515386	0.606776891	0.020685871	4507.332164	50.21541217	5.281701045	0.259517866	0.260168954	9.013534967	35.76513132	29.2156031	0.205581953	0.661364146
JD01m1_UPb_	0.247455522	0.010535884	1422.393601	54.17204382	21.92157528	0.771968898	3169.037095	34.92165769	0.146415198	0.004589637	2759.272589	80.68529533	0.658200768	0.026636701	4612.577865	51.88894352	4.089955868	0.17232057	0.309759117	5.799726561	19.37217686	23.81985814	0.554629188	0.444088553
JD01m1_UPb_	0.067901363	0.00175035	423.4816846	10.56212709	0.521344094	0.014795298	425.2545368	9.895783174	0.020723625	0.000428595	414.5719848	8.486179155	0.056505931	0.001509785	453.2170498	59.47527618	14.74737824	0.377224521	1.428199807	303.0019563	228.8147344	40.65407999	0.262219216	0.045086052
JD01m1_UPb_	0.066386011	0.001757392	414.3263237	10.6088429	0.98055186	0.022069582	693.0472726	11.53853585	0.030113142	0.000676419	599.6322681	13.27347838	0.108435216	0.002734654	1773.162172	44.30428583	15.08590162	0.384434734	1.185114768	438.7736006	386.961644	98.06235511	0.195166012	0.297041011
JD01m1_UPb_	0.163834634	0.005828491	977.2263604	32.14291374	12.56189239	0.401354993	2644.698452	31.82784046	0.09500839	0.002886044	1833.427879	53.00264368	0.57097604	0.020860755	4415.238136	53.48872255	6.15781148	0.219686396	0.329965834	10.20007733	32.07513795	26.15515019	0.381644288	0.436048919
JD01m1_UPb_	0.229092394	0.010322143	1328.122804	54.04920521	20.2090023	0.909640591	3092.416212	42.42954908	0.151648457	0.007829324	2849.518402	136.6630945	0.641226474	0.028115746	4577.483285	60.16880276	4.39128144	0.215162776	0.37018144	7.206502985	20.25532497	25.36797199	0.452248151	0.498414208
JD01m1_UPb_	0.164728173	0.005916898	982.2094321	32.78702071	12.90029464	0.421755443	2670.420732	28.26288183	0.09022891	0.002350051	1745.483788	43.64066548	0.57708879	0.019914184	4434.577488	50.36716347	6.147972771	0.228912543	0.312962097	10.56454807	34.89351559	27.11403737	0.459142267	0.345013378
JD01m1_UPb_	0.067523704	0.001778022	421.1876941	10.73812257	0.51683878	0.022652783	420.5523625	15.14425429	0.02039682	0.000469733	408.0853737	9.306121352	0.055980478	0.002487794	379.4308698	104.8967479	14.84645717	0.394467059	1.020339041	84.76501911	85.36942955	15.39888731	0.15092449	0.083339626
JD01m1_UPb_	0.061983262	0.001641354	387.6431358	9.974020742	0.498274978	0.014938886	409.2806649	10.22966179	0.019580323	0.000458949	391.9029424	9.097900898	0.058937493	0.001886358	537.9552976	69.57780452	16.18313558	0.448989819	0.937808384	203.3831978	226.8992947	39.08366707	0.365820119	0.001039218
JD01m1_UPb_	0.06709824	0.001767648	418.615912	10.67917682	0.524671037	0.015427021	427.0466889	10.26960977	0.021446824	0.000443636	428.8784497	8.778431543	0.056954045	0.001602613	478.0987562	68.55071123	14.94344269	0.397424138	1.312133979	219.714489	186.0871996	34.55229213	0.187561561	0.156852667
JD01m1_UPb_	0.060737087	0.001682872	380.0591716	10.23071649	0.479653132	0.012322928	398.3008432	8.740226639	0.018123181	0.000447015	362.9966877	8.87409284	0.057703427	0.001482857	510.2795718	59.91749837	16.53989228	0.468169945	1.484666625	285.0050737	195.3900887	32.12432515	0.371129037	0.15917442
JD01m1_UPb_	0.061152163	0.001633923	382.6126143	9.9297747	0.473332137	0.011730609	393.1258098	8.085816911	0.018109189	0.000539001	362.7266934	10.70419866	0.056423575	0.001281791	459.2095961	50.30413855	16.37748754	0.444523638	1.200930341	509.3141151	430.3419894	67.81190576	0.159790402	0.451029753
JD01m1_UPb_	0.061545772	0.001629356	384.9950389	9.888726908	0.478191087	0.013977843	395.9874783	9.540351448	0.019301655	0.000401578	386.3945536	7.961178271	0.05695609	0.001694613	475.6572339	62.86896664	16.28398624	0.424762684	1.067442025	211.8706135	196.0935844	35.55980489	-0.0087555	0.3446948
JD01m2																								
JD01-m2_UPb_	0.062799801	0.002266965	392.5914615	13.77083385	0.516679101	0.033854039	421.7329384	22.61066053	0.019713056	0.000863764	394.5370401	17.12244655	0.059960484	0.003887419	571.6984106	140.8036254	15.98174599	0.614366725	0.882313681	267.524704	309.3764794	53.8725332	0.118639787	0.241388984
JD01-m2_UPb_	0.185520245	0.007065421	1095.745822	38.33301197	15.14290534	0.655519925	2816.104488	41.64330636	0.111201454	0.003652011	2129.458942	66.2453197	0.594192304	0.024274738	4444.951991	53.81781114	5.420809898	0.232158157	0.338688242	7.441700286	21.39615614	22.23516531	0.392645491	0.574984576
JD01-m2_UPb_	0.182864039	0.006902201	1081.313841	37.04027457	14.72710497	0.52109555	2801.050083	37.68167255	0.115958371	0.003420667	2216.039503	61.30206044	0.597943343	0.021731409	4481.72198	52.42455411	5.55078963	0.186540093	0.365947665	7.221681103	19.18049444	20.76107538	0.384380593	0.737197556
JD01-m2_UPb_	0.202675304	0.008141732	1187.335211	43.34390534	17.27939013	0.687724528	2932.477014	38.39644057	0.108836379	0.003217003	2086.448701	58.55070435	0.627021205	0.023931836	4519.246485	53.46930356	5.03990421	0.203031442	0.283882278	6.006601577	20.41953693	20.81934955	0.341522555	0.445341223
JD01-m2_UPb_	0.243157158	0.010831999	1399.081814	56.02167646	20.48555371	0.839824149	3095.869763	41.11436488	0.14342935	0.004735327	2705.66824	84.2440851	0.621932981	0.025244133	4508.254817	54.21875927	4.224593042	0.189027185	0.336837521	3.734571814	10.6832009	14.57746206	0.461923368	0.704765729
JD01-m2_UPb_	0.067730437	0.001827714	422.4353251	11.04118931	0.515311032	0.014590605	423.2492427	9.120023425	0.02075332	0.000548536	415.1401583	10.86539837	0.055995562	0.001586635	445.4818459	59.21497625	14.76598843	0.379214373	1.279144207	185.7077269	148.8629007	28.14454597	0.20279398	0.189121155
JD01-m2_UPb_	0.06395441	0.001718007	399.6120201	10.41524551	0.484101461	0.024660018	399.3876067	16.77891935	0.019571256	0.000547791	391.7330914	10.86018184	0.055636002	0.002853984	392.843436	115.8371813	15.66029189	0.430706409	1.499871966	173.7717486	118.5747536	20.63469085	0.134102074	0.13724766
JD01-m2_UPb_	0.06762309	0.001751002	421.7922246	10.56842056	0.506138712	0.013793237	414.826532	9.381843498	0.02081647	0.00038212	416.4115665	7.565899399	0.054973247	0.001648361	411.270292	65.23001569	14.81896056	0.380992659	0.819337537	166.7720594	202.2694237	38.98601759	0.478386794	-0.18042626
JD01-m2_UPb_	0.064352962	0.001843512	401.9825857	11.16761164	0.531465437	0.010615841	432.2540174	7.010470906	0.018692928	0.000499766	374.2977258	9.920110938	0.060586272	0.000928232	616.2472028	32.63371736	15.58147769	0.434611684	2.496943416	987.1054156	380.0714677	66.32452559	0.160325624	0.630870116
JD01-m2_UPb_	0.063337859	0.001986532	395.7778759	12.04138852	0.530142499	0.011158092	431.2357961	7.351427074	0.018760069	0.000356509	375.6538674	7.075697284	0.061160574	0.001054848	633.2592961	36.63052633	15.89455306	0.481740708	2.427262036	731.3443029	298.5688566	51.93639503	0.413505187	0.565064478
JD01-m2_UPb_	0.066899517	0.001836976	417.4299727	11.10175588	0.512882204	0.018503449	419.7204611	12.42675199	0.020785403	0.00072121	415.7749766	14.27032335	0.05582228	0.002140312	423.9388657	87.43139988	14.97060818	0.415274511	1.582911885	222.0956067	136.6948685	25.26460482	0.335162722	0.077576288
JD01-m2_UPb_	0.066847611	0.001768233	417.1006451	10.69329311	0.515552679	0.01119722	422.8198496	7.925986805	0.020937143	0.000400018	418.79814	7.920731854	0.056140291	0.001270577	464.2314097	48.33298252	14.947132	0.406381087	1.578265773	328.9672569	204.1679581	39.47910073	0.118555489	0.279590085
JD01-m2_UPb_	0.066877983	0.001978744	417.2808001	11.96702826	0.512608953	0.02142259	419.1656776	14.31223355	0.020873452	0.000494288	417.5393164	9.787223064	0.056050555	0.002391256	425.1384911	93.86816212	14.99937402	0.460579158	0.866516176	143.298242	180.9152873	36.65041773	-0.03370339	0.594757554
Z_91500																								
91500-1	0.182515322	0.004820146	1080.480813	26.29764493	1.875790112	0.04359688	1069.734715	15.22132228	0.054045399	0.001405012	1063.551035	26.94501008	0.073776763	0.001645652	1024.786378	45.3677319	5.49499	0.147648093	2.664133072	79.30999976	29.62423488	14.94830665	0.100805924	0.596998381
91500-2	0.178510782	0.004525199	1058.720266	24.77890977	1.864612939	0.04342001	1065.678345	15.51022652	0.053271815	0.001458311	1048.669988	27.96415935	0.075089377	0.001690513	1061.070607	43.87893341	5.610640238	0.144644453	2.666467949	81.02961927	30.52635836	15.060384	0.014767086	0.268075177
91500-3	0.177801851	0.004592358	1054.795217	25.13520919	1.872083907	0.040527504	1068.714816	14.33502014	0.054563867	0.001498639	1073.424208	28.72424652	0.07592215	0.00169064	1083.749395	42.58354066	5.636523736	0.146348117	2.676098119	79.60329022	29.79444066	14.9962225	0.419023852	0.059969416
91500-4	0.178857759	0.004597844	1060.58241	25.11347852	1.842075719	0.041729311	1057.873001	14.78226408	0.054209591	0.00131746	1066.74828	25.25533243	0.074987028	0.001615704	1058.21906	45.53798736	5.602165276	0.142427438	2.665205352	79.3806758	29.70431764	14.92509078	0.112712753	0.269942312
91500-5	0.179224575	0.004618434	1062.581273	25.23638224	1.851625527	0.041463649	1061.276836	14.86164821	0.053410904	0.001242609	1051.469708	23.82897772	0.075427141	0.001764706	1060.891715	47.23714678	5.591263427	0.143942166	2.639424519	80.6109969	30.32057225	15.06143082	0.351582546	-0.01829048
91500-6	0.180594486	0.004634281	1070.077395	25.30551908	1.829076219	0.042068091	1053.18608	15.04019937	0.054190668	0.001307214	1066.39669	25.08104023	0.073812682	0.001527849	1021.316992	42.25437372	5.54789958	0.143001328	2.673303713	80.82432414	30.15396559	15.10989165	0.00336265	0.412243873
91500-7	0.177945211	0.004529646	1055.615897	24.75508836	1.850840935	0.038480552	1061.398952	13.69115578	0.053480652	0.001358082	1052.739239	26.04140385	0.075258033	0.001582887	1072.157464	46.11333846	5.629038071	0.141481104	2.641167292	79.12308258	29.82584884	14.83115629	0.451504383	0.055420779
91500-8	0.179976904	0.004660287	1066.680285	25.3568102	1.840473971	0.038524713	1057.653945	13.86076646	0.054423917	0.001133008	1070.9617	21.73243773	0.074728123	0.001704303	1042.556692	47.14655281	5.568281437	0.138590847	2.667500952	80.4061334	30.1547857	15.09014229	0.502951035	0.081078668
91500-9	0.178992381	0.004618777	1061.307378	25.25085173	1.848275647	0.041538006	1060.090126	14.71078015	0.054237643	0.001232711	1067.333506	23.63438507	0.075150359	0.001579444	1056.70418	42.84289876	5.598927341	0.145043255	2.659154354	79.59463473	29.85510638	14.91689324	0.207834511	0.343577287

91500-10	0.179640069	0.004542539	1064.898097	24.82093013	1.841851112	0.051663087	1056.332891	18.32911098	0.052998759	0.001214793	1043.573851	23.31119331	0.074357536	0.001878235	1044.537574	52.97499702	5.574891085	0.14127213	2.64885035	82.1091387	30.72516911	15.2509242	0.198905292	0.279128204
91500-11	0.177718401	0.004683613	1054.28582	25.64491969	1.82560568	0.038026262	1052.366145	13.63154072	0.053293718	0.001327405	1049.167271	25.47483929	0.075066627	0.001630901	1053.594541	43.8991273	5.629273172	0.135495445	2.671995447	78.12527869	29.34544439	14.73341963	0.385868631	0.348570849
91500-12	0.179795385	0.004653838	1065.69498	25.31075813	1.83399264	0.043776496	1054.750994	15.66083831	0.053716242	0.00137672	1057.257514	26.41042822	0.074627827	0.001820794	1037.960481	50.28841476	5.584646568	0.123932578	2.687949121	78.20559951	29.13742996	14.77841925	0.306158323	0.284884251
91500-13	0.178551938	0.004618848	1058.895227	25.23399649	1.824324344	0.039499532	1051.786833	13.98292133	0.052943824	0.001410362	1042.40114	27.05475021	0.075411828	0.001669481	1062.993381	43.37696458	5.612901714	0.143795541	2.642286469	82.24819131	30.58108768	15.32551505	0.246861321	0.191887956
91500-14	0.179700763	0.004530949	1065.238917	24.77709676	1.844398079	0.04109221	1058.84325	14.53764193	0.052301596	0.001352971	1030.108517	25.98825682	0.074370109	0.00158174	1042.133671	44.44774326	5.572392957	0.142303531	2.639309989	80.10492443	30.01575058	14.98180466	0.255758612	0.196526526
91500-15	0.178410586	0.004538287	1058.163444	24.82221962	1.842060935	0.044889484	1057.406767	16.01936395	0.052693326	0.001409249	1037.591048	27.06753285	0.075055321	0.001765251	1050.779944	47.48380419	5.614340171	0.142986219	2.659340055	79.74486816	29.91758373	14.99898107	0.045176133	0.427091179
91500-16	0.179585035	0.004630918	1064.557333	25.29634141	1.864053718	0.043754162	1065.548705	15.65204336	0.053917391	0.001532683	1061.024301	29.36408278	0.075574661	0.001943871	1061.675128	52.83768998	5.579563534	0.143743982	2.766424411	79.83121085	30.00987712	14.94092857	0.136359396	0.476383065
91500-17	0.179368703	0.00460657	1063.377914	25.13223475	1.897254421	0.04553122	1079.619948	15.46811548	0.054594814	0.001313926	1074.136902	25.16971143	0.075931752	0.001922659	1087.088822	48.8571414	5.577248034	0.148804102	2.796583997	80.24167358	30.00027395	15.07893677	0.212663298	0.234209842
91500-18	0.178981857	0.004575521	1061.279806	25.02784719	1.843595608	0.046269444	1057.873538	16.57914502	0.0539325	0.001326563	1061.439286	25.45025153	0.074427335	0.001896437	1031.179149	52.18486896	5.597041721	0.144398062	2.673179739	80.04683374	29.93152724	14.94948748	0.245354505	0.214850952
91500-19	0.179126759	0.0045941	1062.065669	25.09995066	1.84317287	0.043901371	1058.100511	15.64254757	0.054121491	0.001482117	1064.971401	28.44905426	0.074489301	0.0018239	1034.906031	49.58750078	5.592864794	0.142950061	2.641123287	79.96622029	30.07527533	15.0450371	0.292947406	0.139845884
91500-20	0.178995585	0.004573299	1061.356598	24.98123281	1.849911654	0.046275433	1060.12	16.61943263	0.053383115	0.001395287	1050.856623	26.78284676	0.074317519	0.001810016	1029.732069	50.38971976	5.596321465	0.141694864	2.658159196	79.62094657	29.83665264	14.8659557	0.166577272	0.306129054
91500-21	0.178801187	0.004559643	1060.295441	24.9393301	1.861915629	0.043241115	1064.818217	15.2709876	0.053673172	0.001459209	1056.375532	27.97550537	0.075203189	0.001805789	1061.82036	50.527573	5.602422358	0.143900052	2.648261579	80.44036341	30.17242769	15.11750985	0.236941032	0.127723904
91500-22	0.180492829	0.004653717	1069.510546	25.39101593	1.877130944	0.043164858	1072.763017	14.54470872	0.053374606	0.001337483	1050.722486	25.66300992	0.074833966	0.001662592	1046.611467	45.9941961	5.55180679	0.142574805	2.632151432	79.71979433	29.97329824	14.93043315	0.293379058	0.291515483
91500-23	0.179011669	0.004541147	1061.458881	24.87179728	1.827865272	0.043294369	1052.553578	15.73304444	0.053907168	0.001289711	1060.972146	24.73585404	0.073331612	0.001712261	1012.079184	45.9262554	5.584852952	0.131751898	2.636812548	80.20397832	30.01410685	15.04041957	0.149757813	0.43577267
91500-24	0.179970366	0.004652007	1066.64801	25.37513663	1.840674227	0.044466326	1057.009433	15.72289919	0.054540384	0.001172719	1073.173724	22.48301606	0.074130874	0.001757972	1025.534368	47.82884362	5.568569425	0.142677453	2.662608147	79.22905802	29.62044005	14.88537843	0.244917626	0.381567122
91500-25	0.176865234	0.004628316	1049.638768	25.31226998	1.85201452	0.045190554	1061.104252	15.67670152	0.053937567	0.001511645	1061.415889	28.81784537	0.076185819	0.001971587	1079.454999	48.6178224	5.668521145	0.147821787	2.662454648	82.26544803	30.85565195	15.32133875	-0.98857386	0.611825153
91500-26	0.179913588	0.004694261	1066.314816	25.61772891	1.865936764	0.044446891	1065.944644	16.1239125	0.05407643	0.001502757	1064.080335	28.70950808	0.076206466	0.001788038	1081.563679	47.4600235	5.559093639	0.158628625	2.653385981	78.386438	29.51036711	14.77449182	0.49373392	0.503227058
Z_Plesovice																								
PLE-1	0.053878573	0.0015154	338.2462853	9.282551646	0.449108342	0.013608253	375.5403231	9.578855621	0.024056155	0.001564551	479.913003	30.85489152	0.059985042	0.001538673	578.0714472	55.69401435	18.55617595	0.544757581	9.259136928	573.1164313	61.62277985	12.97030941	-0.09184422	0.56282653
PLE-2	0.054475344	0.001475676	341.9065374	9.020381784	0.407625334	0.009189764	346.6281133	6.58131979	0.018618566	0.000661787	372.7703933	13.12577977	0.054156223	0.001187074	358.1220291	48.65566524	18.42767556	0.50552223	9.595561437	582.1760615	61.46951643	10.31832287	0.178666758	0.261295038
PLE-3	0.053695744	0.001468568	337.1363465	8.979072416	0.402836555	0.009479938	343.1335893	6.728526393	0.017434103	0.000846352	349.1847182	16.60888043	0.054255194	0.001216399	363.1719321	46.00409506	18.66877308	0.519807236	8.232877491	667.6224362	81.49567039	12.88757223	-0.15073271	0.315449043
PLE-4	0.054360073	0.001451654	341.2066676	8.86656147	0.398655239	0.009633693	340.0991271	6.797202167	0.017829236	0.000934444	356.9988907	18.37208163	0.053531807	0.000996575	337.423521	40.72529851	18.37746566	0.480530431	9.836263499	523.9374354	51.68610907	8.777372666	-0.55784994	0.760142715
PLE-5	0.055414046	0.001489189	347.6438579	9.083383926	0.534670833	0.013740784	433.9371398	8.69841873	0.034533876	0.001053662	686.01123	20.45481407	0.070378698	0.001566695	922.2366241	44.57394227	18.1075613	0.466528655	7.665342435	510.0178752	64.62989886	21.20626553	-0.32199269	0.632380401
PLE-6	0.053988285	0.001451568	338.9311921	8.867234177	0.401538679	0.010175914	342.1094288	7.251454211	0.017308758	0.000852439	346.6928551	16.76905679	0.054342308	0.001320767	362.9508059	51.50820734	18.55253854	0.503718615	10.06763188	538.3753534	53.44145268	8.689620707	-0.24619536	0.479260903
PLE-7	0.053683567	0.001399263	337.0764071	8.552305312	0.406860705	0.011218945	345.8491669	7.708390382	0.017471992	0.000723658	349.9830819	14.30232484	0.054749701	0.001119614	385.8946795	43.06786994	18.63970412	0.501179063	10.04909826	534.7010015	52.97137942	8.711472188	-0.16656916	0.424471435
PLE-8	0.054296065	0.001444005	340.816298	8.823377585	0.398638892	0.010102776	340.0128539	7.216391921	0.016828087	0.000582107	337.2321926	11.57086443	0.05347663	0.001104698	338.747739	48.60633978	18.47473052	0.483917838	10.10930846	454.785816	44.55779357	6.902394257	-0.29305881	0.735144868
PLE-9	0.052219969	0.001368072	328.1159381	8.380681685	0.437895704	0.009042354	368.2715481	6.377975701	0.023774692	0.00079156	474.790074	15.62539663	0.060902376	0.001190333	635.0356792	43.29841488	19.1631873	0.474287538	8.387353463	457.4477294	53.27888253	11.68847435	0.25534575	0.245924246
PLE-10	0.054847321	0.001542716	344.1686638	9.422618976	0.404752094	0.010315832	344.4283924	7.429167525	0.017462424	0.000483834	349.8653392	9.610406928	0.053819125	0.001071412	347.187418	45.34783135	18.23946645	0.555541006	9.075100187	771.4152622	91.89412088	15.0608088	0.03732851	0.622607666
PLE-11	0.053559455	0.001460179	336.3036592	8.930653595	0.40832944	0.015557828	346.2857168	10.26190913	0.018118189	0.001946657	362.054188	37.31968703	0.055955451	0.001783557	404.9395008	48.13639162	18.66979237	0.49613413	9.889207291	727.9341347	79.81166741	13.10831603	-0.20478694	0.345900408
PLE-12	0.054341038	0.001497986	341.0804344	9.149672517	0.397466305	0.009137464	339.2826199	6.539849871	0.017120546	0.000487845	343.0703505	9.688318939	0.053646933	0.000951873	343.117197	39.66753934	18.40221968	0.447385431	9.227604118	555.9299207	58.78486081	9.349146193	0.018388642	0.382002574
PLE-13	0.05372811	0.001444405	337.3397264	8.829671074	0.398926659	0.013006255	339.8614827	8.809132504	0.017642099	0.001151245	353.171175	22.47161382	0.05422877	0.001360219	356.3328969	53.85713398	18.63377595	0.529236119	9.924484025	481.0444878	45.78195004	7.764010118	-0.54435433	0.785528524
PLE-14	0.053910635	0.001492959	338.4478526	9.121007755	0.391872832	0.008671147	335.2578652	6.287540749	0.017033404	0.000418732	341.3538834	8.319487401	0.052804128	0.000900702	313.7261377	40.04344268	18.593512	0.52088772	9.430539054	694.8510869	76.01764513	12.17481041	-0.00285683	0.614985292
PLE-15	0.053071285	0.00146657	333.3128211	8.968003773	0.395101365	0.012582324	337.1033245	8.850684243	0.017253623	0.000658274	345.6671672	13.0330484	0.054010645	0.001291727	349.7988351	50.75859268	18.88310843	0.483033863	10.0918481	626.0710999	62.75534754	10.33467895	-0.39857287	0.674700462
PLE-16	0.053613207	0.001414216	336.6429628	8.647365976	0.402844944	0.008236843	343.2775861	5.949352799	0.017286788	0.000576807	346.3511088	11.44289118	0.054268738	0.00101376	367.4464105	42.62070452	18.66876831	0.457750179	9.679335327	656.6498436	73.33380661	11.06065099	0.059108548	0.390803223
PLE-17	0.054566933	0.001472667	342.4694455	8.988621191	0.402975715	0.010136842	343.1910365	7.251594748	0.017343267	0.000504414	347.4945988	10.01800887	0.053503034	0.001146919	331.9530738	48.88834351	18.38660077	0.473855375	10.10346207	571.4578233	59.46544469	9.126465088	-0.00483904	0.561376871
PLE-18	0.053586083	0.001523852	336.4537505	9.316797444	0.46144261	0.010231591	384.6509909	7.056159606	0.023438251	0.000625808	468.2020985	12.34869115	0.062130287	0.001204866	670.0581689	42.68037631	18.67937539	0.520552388	7.305797708	655.4992481	88.360882	19.23503583	0.249039799	0.471986407
PLE-19	0.065645916	0.00166431	409.8515648	10.06832214	0.514470615	0.014188022	420.347635	9.517861691	0.024565965	0.000980521	490.3277304	19.36164954	0.056804383	0.001467927	457.4205329	57.91500273	15.25660612	0.390782282	8.53099381	298.2235489	35.61693464	8.305142958	0.129099842	0.291083905
PLE-20	0.055342859	0.001675157	347.1687584	10.21840482	0.562164343	0.01742821	451.4288858	11.18129736	0.03480984	0.001473542	691.1684095	28.70607431	0.072805057	0.001501664	1005.936223	45.5506793	18.15277631	0.501993464	6.624865183	596.1342567	88.13726303	28.38954819	-0.1298806	0.68220612
PLE-21	0.053814563	0.001530433	337.8512275	9.349486715	0.407090144	0.009953703	348.3867261	7.123198987	0.017278258	0.000456594	346.2115126	9.069979659	0.054643278	0.000958134	384.8798608	39.1021741	18.68341724	0.513914869	8.205686932	602.7747166	71.9049481	11.53721756	0.092737369	0.673246252
PLE-22	0.055789075	0.001627238	349.9087916	9.921903823	0.467034189	0.013274421	388.1747366	9.094985429	0.0267493	0.00108281	533.3218235	21.3330796	0.0600826	0.001248405	590.2826202	45.87168956	18.03434864	0.508154313	8.986698523	677.0351049	75.41379452	18.64420471	-0.14028722	0.703276099
PLE-23	0.054802417	0.001589362	343.8832559	9.703609893	0.407174936	0.009697609	346.252266	6.960310728	0.01746701	0.000469434	349.9592852	9.324890649	0.053528859	0.001009891	336.2398682	43.30331064	18.36113545	0.521808641	9.328462107	675.4791143	72.44448868	11.44542913	0.048787232	0.589804425
PLE-24	0.055730666	0.001604656	349.5562986	9.784560357	0.411266289	0.009077127	349.2909649	6.500539012	0.017261835	0.000461238	345.8856922	9.166432277	0.053571424	0.000934601	346.6150716	38.63956342	18.04500552	0.499217709	9.253004368	637.7001295	69.75370051	10.72476478	0.100147234	0.618737721
PLE-25	0.052904687	0.00149015	332.2886737	9.117822517	0.397613642	0.009378986	339.3824198	6.676832107	0.019191409	0.001843249	367.6764613	16.17896814	0.055416187	0.001717065	385.8002551	47.70508738	18.99723805	0.52873844	8.815080045	686.6757329	79.04063214	13.30591834	0.464318376	0.042077321
PLE-26	0.053907099	0.001498511	338.4252573	9.164537772	0.404732134	0.012151441	344.225819	8.270794133	0.018392131	0.001200297	368.0503228	23.3781846	0.054545559	0.00136183	360.0970238	41.63501737	18.59125728	0.492788568	9.382136096	683.4364713	73.19529116	12.48046062	-0.3390197	0.581767268
Z_Temora2																								
TEM-1	0.065415777	0.00167076	408.4561709	10.11328622	0.525286949	0.026307331	425.6566577	14.77458215	0.021903891	0.00128842	437.5732551	24.9336751	0.05783026	0.002950232	444.0975804	63.35364452	15.3145801	0.398444744	3.294197319	264.4438738	80.29365236	15.81739333	0.843921686	-0.6483974
TEM-2	0.067191224	0.001731942	419.1852443	10.46348763	0.526556364	0.011154223	428.8504264	7.424348754	0.020924064	0.000394109	418.539103	7.803241713	0.05619564	0.001349871	445.0242526	53.49855036	14.91370736	0.388364531	1.710939473	317.6793075	185.1880294	35.20145041	0.417667411	0.008672011
TEM-3	0.067163123	0.001720965	419.01804	10.39524112	0.503315198	0.010975702	413.2805375	7.362596152	0.021079757	0.000412106	421.6180709	8.157457359	0.054092319	0.001259816	353.4009036	51.39205849	14.91677194	0.383225682	1.833920794	321.9123632	177.5464197	33.59383461	0.332448284	-0.07947498
TEM-4	0.071011294	0.001940926	442.1861983	11.68365877	0.546410922	0.021415216	436.2461172	9.284321797	0.02262336	0.00052495	452.1272431	10.37208756	0.055522708	0.00159504	400.3498868	64.76990156	14.11584028	0.405795626	2.584155249	324.1190999	149.0467712	29.03414417	-0.10369703	0.311012077
TEM-5	0.068165525	0.0019335	425.0211738	11.62557702	0.580524027	0.038238122	458.8747432	20.7845919	0.023814122	0.001857066	474.9057411	36.0306634	0.061023801	0.002419505	593.731023	72.47805496	14.68907525	0.436794069	2.903126715	146.4088076	49.14163355	10.29753367	-0.3440938	0.609741257
TEM-6	0.066748556	0.001660865	416.5249421	10.03528975	0.522932494	0.015014759	423.3559901	8.024201505	0.021154123	0.000569888	423.0524922	11.27524943	0.056502967	0.001171652	454.2485921	47.21660922	14.99580184	0.372832146	4.451034011	287.6017539	64.49072716	12.59858176	-0.13398037	0.34106696
TEM-7	0.067409172	0.001719024	420.5059178	10.3732526	0.525938426	0.021309093	426.6616874	14.18092373	0.020842753	0.000643099	416.8671117	12.73417165	0.056987641	0.002357584	420.8288363	97.89493505	14.85956905	0.371431317	2.755827705	122.2327561	44.25785961	8.42239218	0.101098984	0.047094746
TEM-8	0.067489746	0.001722428	420.992278	10.40310915	0.521882012	0.012671156	425.5397297	8.498768075	0.020869511	0.000415447	417.4550131	8.22770446	0.056388793	0.001354824	443.9812042	55.58592893	14.84277663	0.382814934	1.803553292	233.0253411	129.1041494	24.69317544	0.188213304	0.190299796
TEM-9	0.067056085	0.001742533	418.3651503	10.52542609	0.520616524	0.023558436	422.6272887	15.32292854	0.020992194	0.000611621	419.8349736	12.0884657	0.056658989	0.002463732	402.1331937	101.0259082	14.94812506	0.39118334	1.906056113	91.0303797	47.07228384	9.157635022	-0.42339651	0.605001986
TEM-10	0.066133446	0.00173179	412.7863123	10.47097845	0.502124864	0.019178432	411.0887601	12.88667324	0.020744666	0.000710676	414.901762	14.07217817	0.055567967	0.002088692	401.055309	91.31622604	15.16059473	0.398089403	3.495709773	132.2093881	40.8132057	7.805598895	0.06966734	0.350229502
TEM-11	0.067063087	0.001765749	418.4020514	10.66706138	0.523273306	0.017474606	425.7102354	11.50520715	0.021060662	0.000522533	421.2153221	10.33699691	0.057348977	0.001864427	464.8049909	71.47277566	14.95300116	0.396745894	1.961586556	158.6056141	84.42568491	16.46202116	-0.07229914	0.285243826
TEM-12	0.066977189	0.001729746	417.8917247	10.44932058	0.517504961	0.017264647	423.6060774	11.99389267	0.02103414	0.000581917	420.6751495	11.51314223	0.056750797	0.00190435	464.0990343	68.34769017	14.96189626	0.387293582	2.410801855	147.9035652	59.87821024	11.95831335	0.147826862	0.283734473
TEM-13	0.066485857	0.001808221	414.9010924	10.93387466	0.506794937	0.019592924	414.1973494	13.2687469	0.020588387	0.000761563	411.7921342	15.08496939	0.055678677	0.002197494	414.6763307	97.90127467	15.0999523	0.420856819	3.75645023	87.79537679	22.48790724	4.361768424	0.329025854	-0.05014871
TEM-14	0.06595503	0.001726847	411.7070232	10.4512389	0.533841624	0.040861197	420.4024536	11.55032794	0.02154854	0.001222503	430.5784585	23.67553607	0.058842916	0.004088044	455.7335177	63.94587755	15.2034205	0.410938254	1.977792385	306.1282788	155.5258335	32.11689287	0.423408356	-0.15559764
TEM-15	0.065813235	0.001734245	410.8484976	10.49341705	0.504019327	0.018253331	414.4619861	12.87131243	0.02026326	0.000502453	405.4286946	9.947659113	0.056029835	0.002049661	417.5198149	80.4887435	15.21032581	0.3899234	2.173996625	138.3713974	64.5475526	12.38330058	0.107282508	0.174046837
TEM-16	0.065572794	0.001685763	409.403999	10.19789768	0.491890805	0.014174079	405.0784314	9.632406576	0.020848856	0.000594037	417.0032303	11.75700497	0.054296327	0.001580663	371.5290118	66.53166606	15.28007173	0.393807752	3.323707089	209.5431457	66.33250604	12.59500636	0.262138587	-0.03960409
TEM-17	0.065522544	0.001681417	409.1002716	10.17192537	0.521372171	0.017585637	424.405783	11.56743262	0.02082965	0.000475731	416.6522282	9.41905754	0.057493663	0.001998617	462.66675	78.72033477	15.29150563	0.393967767	1.742837612	177.0009848	106.7136188	20.10466605	0.156110785	0.083094087
TEM-18	0.066099074	0.001683856	412.5903278	10.17750238	0.514418149	0.017614709	419.7579562	11.68274031	0.02088087	0.000510219	417.659119	10.09743536	0.056269146	0.002029054	425.4662069	78.35147898	15.15366235	0.382279176	3.036911476	173.3039221	55.6932453	10.78467017	0.360172483	-0.07713969
TEM-19	0.066482873	0.001664158	414.9175754	10.06008307	0.510384471	0.014667198	417.5643313	9.82554419	0.020541421	0.00052064	410.9350692	10.31340865	0.055666876	0.001576439	408.0909521	63.81468804	15.02314143	0.376474257	2.68880824	253.1582013	91.56053869	17.61928183	0.095446415	0.146443492
TEM-20	0.066571195	0.001706482	415.4419411	10.31587415	0.50597597	0.01012365	415.1814132	6.843424961	0.021156756	0.000401342	423.1448398	7.945088372	0.055331132	0.000966509	413.0769783	39.24865879	15.04950426	0.391714333	2.479833488	466.220055	184.2043013	36.23011644	0.095165226	0.394574888
TEM-21	0.065671779	0.001747366	409.9882953	10.5615987	0.512222877	0.014320591	420.3224986	9.99720482	0.020605023	0.000470871	412.205219	9.326628866	0.056661498	0.001520498	460.6510247	57.48665633	15.27427543	0.40104125	3.148560768	345.0496783	102.0232952	19.26831592	0.15401708	0.371425273
TEM-22	0.066856492	0.001751966	417.1574532	10.58341236	0.533865317	0.017334107	432.8355465	11.45612551	0.021346951	0.000517311	426.8853278	10.23753379	0.057516096	0.00195437	466.5564717	78.67861609	14.99485148	0.392739819	1.928429458	147.1022884	75.94526799	14.72327421	0.305523564	-0.01498713
TEM-23	-2.2877544	5.144453823	10796.97917	646.4556045	-289.500308	572.5982047	6237.734616	130.7656072	-925.169246	1837.506426	24661.47879	1619.772472	0.831649753	0.062734382	4508.700407	112.2614568	0.238431019	0.033686342	97.20232827	0.065119663	0.296633326	5.508179872	0.261207891	0.957207079
TEM-24	0.067854468	0.001823688	423.1705463	11.01742936	0.512444444	0.012453859	419.2352955	8.331814091	0.021042931	0.000496204	420.8702875	9.822633043	0.054685741	0.001445714	370.937015	60.01072035	14.79129261	0.411778755	2.44424764	275.5227419	137.8223773	24.57704448	0.145364551	0.150180899
TEM-25	0.067741251	0.001779431	422.4991615	10.74754623	0.537136067	0.016210021	436.8135486	11.11320505	0.022130549	0.000670929	442.3452566	13.26356839	0.05734065	0.001822072	475.1255036	73.51030316	14.80135031	0.396524	1.841889758	152.5329073	84.41591056	16.04102437	0.294929306	0.058756544
TEM-26	0.067528042	0.001764156	421.2142615	10.65567278	0.513079343	0.01992581	418.4186578	13.2067193	0.020796031	0.000713491	415.9211027	14.127765	0.054870471	0.00206496	364.3553965	84.28893018	14.82047175	0.41131667	3.465546525	101.3654222	29.36743468	5.447125588	0.1091207	0.195766935

Mass Spectrometer Files

File	File start time	File end time	Time file loaded	No of data points	No of channels	Channels	Samples
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:31:01.000	2023-08-15 10:32:01.980	2023-08-25 16:03:09.467	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:52:50.000	2023-08-15 12:53:50.980	2023-08-25 16:03:11.767	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_088.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:20:34.000	2023-08-15 14:21:34.980	2023-08-25 16:03:17.882	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_060.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:16:50.000	2023-08-15 11:17:50.980	2023-08-25 16:03:23.607	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_022.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:21:40.000	2023-08-15 14:22:40.980	2023-08-25 16:03:17.929	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_062.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:22:47.000	2023-08-15 14:23:47.980	2023-08-25 16:03:17.991	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_064.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:23:53.000	2023-08-15 14:24:53.980	2023-08-25 16:03:18.038	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_066.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:42:00.000	2023-08-15 10:43:00.980	2023-08-25 16:03:10.222	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:25:00.000	2023-08-15 14:26:00.980	2023-08-25 16:03:18.069	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_066.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:26:06.000	2023-08-15 14:27:06.980	2023-08-25 16:03:18.194	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_067.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:27:12.000	2023-08-15 14:28:12.687	2023-08-25 16:03:18.256	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_067.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:28:19.000	2023-08-15 14:29:19.980	2023-08-25 16:03:18.303	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_068.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:53:56.000	2023-08-15 12:54:56.980	2023-08-25 16:03:11.814	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_089.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:50:44.000	2023-08-15 10:51:44.686	2023-08-25 16:03:16.150	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_006.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:29:25.000	2023-08-15 14:30:25.980	2023-08-25 16:03:18.350	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_069.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:02:58.000	2023-08-15 14:03:58.979	2023-08-25 16:03:16.540	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_055.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:17:56.000	2023-08-15 11:18:56.686	2023-08-25 16:03:23.670	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_024.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:53:59.000	2023-08-15 10:54:59.979	2023-08-25 16:03:18.397	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_009.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:30:31.000	2023-08-15 14:31:31.979	2023-08-25 16:03:18.537	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_070.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:31:37.000	2023-08-15 14:32:37.979	2023-08-25 16:03:18.584	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_070.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:32:44.000	2023-08-15 14:33:44.980	2023-08-25 16:03:18.631	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_072.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:33:50.000	2023-08-15 14:34:50.980	2023-08-25 16:03:18.678	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-18
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:29:56.000	2023-08-15 12:30:56.980	2023-08-25 16:03:10.269	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_072.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:55:01.000	2023-08-15 12:56:01.980	2023-08-25 16:03:11.860	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_091.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:34:56.000	2023-08-15 14:35:56.980	2023-08-25 16:03:18.724	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-19
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:36:03.000	2023-08-15 14:37:03.980	2023-08-25 16:03:18.896	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-18
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:37:09.000	2023-08-15 14:38:09.980	2023-08-25 16:03:18.943	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-19
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:57:28.000	2023-08-15 13:58:28.980	2023-08-25 16:03:16.213	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_044.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:19:01.000	2023-08-15 11:20:01.980	2023-08-25 16:03:23.716	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_025.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:38:15.000	2023-08-15 14:39:15.980	2023-08-25 16:03:18.974	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-18
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:39:21.000	2023-08-15 14:40:21.980	2023-08-25 16:03:19.021	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-19
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:40:28.000	2023-08-15 14:41:28.980	2023-08-25 16:03:19.052	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-18
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:55:04.000	2023-08-15 10:56:04.980	2023-08-25 16:03:19.177	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_012.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:41:35.000	2023-08-15 14:42:35.980	2023-08-25 16:03:19.239	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-19
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:12:30.000	2023-08-15 11:13:30.980	2023-08-25 16:03:23.233	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-5
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:42:40.000	2023-08-15 14:43:40.979	2023-08-25 16:03:19.286	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_072.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:43:46.000	2023-08-15 14:44:46.979	2023-08-25 16:03:19.317	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_073.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:31:03.000	2023-08-15 12:32:03.979	2023-08-25 16:03:10.300	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_072.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:44:52.000	2023-08-15 14:45:52.980	2023-08-25 16:03:19.380	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_075.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:45:58.000	2023-08-15 14:46:58.979	2023-08-25 16:03:19.520	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_078.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:20:07.000	2023-08-15 11:21:07.980	2023-08-25 16:03:23.779	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_027.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:58:34.000	2023-08-15 13:59:34.980	2023-08-25 16:03:16.260	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_046.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:47:05.000	2023-08-15 14:48:05.979	2023-08-25 16:03:19.582	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_079.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:48:11.000	2023-08-15 14:49:11.980	2023-08-25 16:03:19.660	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_085.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:49:17.000	2023-08-15 14:50:17.980	2023-08-25 16:03:19.723	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_088.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:20:07.000	2023-08-15 12:21:07.980	2023-08-25 16:03:09.566	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_066.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:50:23.000	2023-08-15 14:51:23.980	2023-08-25 16:03:19.785	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_090.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:51:30.000	2023-08-15 14:52:30.980	2023-08-25 16:03:19.941	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_091.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:56:10.000	2023-08-15 10:57:10.980	2023-08-25 16:03:20.004	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_012.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:52:36.000	2023-08-15 14:53:36.980	2023-08-25 16:03:20.050	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_092.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:53:43.000	2023-08-15 14:54:43.980	2023-08-25 16:03:20.097	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_096.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:32:08.000	2023-08-15 12:33:08.979	2023-08-25 16:03:10.441	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_078.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:21:12.000	2023-08-15 11:22:12.980	2023-08-25 16:03:23.841	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_028.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:54:49.000	2023-08-15 14:55:49.979	2023-08-25 16:03:20.160	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_097.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:59:40.000	2023-08-15 14:00:40.979	2023-08-25 16:03:16.306	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_049.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:55:56.000	2023-08-15 14:56:56.980	2023-08-25 16:03:20.378	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_097.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:56:07.000	2023-08-15 12:57:07.980	2023-08-25 16:03:11.907	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_091.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:57:02.000	2023-08-15 14:58:02.980	2023-08-25 16:03:20.440	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_098.1

C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:58:07.000	2023-08-15 14:59:07.980	2023-08-25 16:03:20.503	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_099.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:59:14.000	2023-08-15 15:00:14.980	2023-08-25 16:03:20.550	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_099.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:00:20.000	2023-08-15 15:01:20.980	2023-08-25 16:03:20.628	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_101.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:01:27.000	2023-08-15 15:02:27.980	2023-08-25 16:03:20.799	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_102.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:02:33.000	2023-08-15 15:03:33.979	2023-08-25 16:03:20.846	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_103.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:57:14.000	2023-08-15 10:58:14.980	2023-08-25 16:03:20.908	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_013.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:05:10.000	2023-08-15 14:06:10.979	2023-08-25 16:03:16.634	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-17
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:03:38.000	2023-08-15 15:04:38.980	2023-08-25 16:03:20.971	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_105.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:33:14.000	2023-08-15 12:34:14.980	2023-08-25 16:03:10.488	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-10
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:26:40.000	2023-08-15 12:27:40.979	2023-08-25 16:03:10.007	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_070.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:00:46.000	2023-08-15 14:01:46.981	2023-08-25 16:03:16.338	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_050.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:04:45.000	2023-08-15 15:05:46.273	2023-08-25 16:03:21.033	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-20
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:05:50.000	2023-08-15 15:06:50.980	2023-08-25 16:03:21.205	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-21
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:06:56.000	2023-08-15 15:07:56.979	2023-08-25 16:03:21.252	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-22
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:08:02.000	2023-08-15 15:09:02.980	2023-08-25 16:03:21.283	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-20
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:09:09.000	2023-08-15 15:10:09.979	2023-08-25 16:03:21.330	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-21
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:10:15.000	2023-08-15 15:11:15.979	2023-08-25 16:03:21.361	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-22
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:11:22.000	2023-08-15 15:12:22.979	2023-08-25 16:03:21.532	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-20
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:22:17.000	2023-08-15 11:23:17.980	2023-08-25 16:03:24.044	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_028.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:12:28.000	2023-08-15 15:13:28.980	2023-08-25 16:03:21.626	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-21
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:10:39.000	2023-08-15 14:11:39.980	2023-08-25 16:03:17.227	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-16
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:13:34.000	2023-08-15 15:14:35.273	2023-08-25 16:03:21.673	211	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-22
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:58:19.000	2023-08-15 10:59:19.980	2023-08-25 16:03:21.735	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_016.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:01:52.000	2023-08-15 14:02:52.980	2023-08-25 16:03:16.478	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_052.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:34:19.000	2023-08-15 12:35:19.980	2023-08-25 16:03:10.534	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-11
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:14:41.000	2023-08-15 15:15:41.980	2023-08-25 16:03:21.813	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-20
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:15:47.000	2023-08-15 15:16:47.980	2023-08-25 16:03:22.016	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-21
C:/Users/Supervisor/Documents/Chloe	2023-08-15 15:16:53.000	2023-08-15 15:17:53.980	2023-08-25 16:03:22.078	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-22
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:59:24.000	2023-08-15 11:00:24.980	2023-08-25 16:03:22.156	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_017.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:00:30.000	2023-08-15 11:01:30.979	2023-08-25 16:03:22.234	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_017.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:23:23.000	2023-08-15 11:24:23.979	2023-08-25 16:03:24.122	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_029.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:57:12.000	2023-08-15 12:58:12.980	2023-08-25 16:03:12.032	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_092.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:01:35.000	2023-08-15 11:02:35.979	2023-08-25 16:03:22.312	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_018.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:33:20.000	2023-08-15 10:34:20.979	2023-08-25 16:03:22.500	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:02:41.000	2023-08-15 11:03:41.980	2023-08-25 16:03:22.562	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_018.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:03:47.000	2023-08-15 11:04:47.979	2023-08-25 16:03:22.609	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_019.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:35:30.000	2023-08-15 10:36:30.980	2023-08-25 16:03:24.184	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:24:29.000	2023-08-15 11:25:29.980	2023-08-25 16:03:24.247	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_030.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:37:35.000	2023-08-15 12:38:35.980	2023-08-25 16:03:10.768	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-10
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:04:53.000	2023-08-15 11:05:53.980	2023-08-25 16:03:22.671	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-4
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:25:35.000	2023-08-15 11:26:35.980	2023-08-25 16:03:24.294	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_030.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:26:40.000	2023-08-15 11:27:40.979	2023-08-25 16:03:24.481	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_032.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:58:18.000	2023-08-15 12:59:18.980	2023-08-25 16:03:12.079	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_093.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:27:45.000	2023-08-15 11:28:45.980	2023-08-25 16:03:24.528	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_033.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:28:50.000	2023-08-15 11:29:50.979	2023-08-25 16:03:24.590	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_033.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:29:55.000	2023-08-15 11:30:55.979	2023-08-25 16:03:24.652	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_037.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:27:45.000	2023-08-15 12:28:45.980	2023-08-25 16:03:10.129	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_071.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:30:59.000	2023-08-15 11:31:59.980	2023-08-25 16:03:24.684	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_037.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:32:06.000	2023-08-15 11:33:06.980	2023-08-25 16:03:24.871	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_038.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:33:12.000	2023-08-15 11:34:12.979	2023-08-25 16:03:24.918	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_040.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:34:17.000	2023-08-15 11:35:17.980	2023-08-25 16:03:24.964	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-6
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:35:24.000	2023-08-15 12:36:24.979	2023-08-25 16:03:10.566	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-10
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:36:34.000	2023-08-15 10:37:34.980	2023-08-25 16:03:25.011	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:11:25.000	2023-08-15 11:12:25.980	2023-08-25 16:03:23.061	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-4
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:59:22.000	2023-08-15 13:00:22.980	2023-08-25 16:03:12.126	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_093.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:38:40.000	2023-08-15 12:39:40.979	2023-08-25 16:03:10.831	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-11
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:35:23.000	2023-08-15 11:36:23.980	2023-08-25 16:03:25.042	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-7
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:36:28.000	2023-08-15 11:37:28.979	2023-08-25 16:03:25.214	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-6
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:37:34.000	2023-08-15 11:38:34.980	2023-08-25 16:03:25.292	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-7
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:38:40.000	2023-08-15 11:39:40.979	2023-08-25 16:03:25.339	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-6

C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:06:14.000	2023-08-15 14:07:14.980	2023-08-25 16:03:16.665	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-16
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:39:45.000	2023-08-15 11:40:45.980	2023-08-25 16:03:25.401	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-7
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:40:51.000	2023-08-15 11:41:51.980	2023-08-25 16:03:25.448	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-6
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:41:57.000	2023-08-15 11:42:57.980	2023-08-25 16:03:25.651	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-7
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:05:58.000	2023-08-15 11:06:58.980	2023-08-25 16:03:22.702	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-5
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:00:27.000	2023-08-15 13:01:27.980	2023-08-25 16:03:12.172	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_095.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:43:01.000	2023-08-15 11:44:01.687	2023-08-25 16:03:25.729	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_041.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:44:07.000	2023-08-15 11:45:07.980	2023-08-25 16:03:25.807	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_041.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:45:13.000	2023-08-15 11:46:13.979	2023-08-25 16:03:25.869	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_042.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:39:45.000	2023-08-15 12:40:45.980	2023-08-25 16:03:10.862	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-10
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:37:40.000	2023-08-15 10:38:40.980	2023-08-25 16:03:25.916	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:46:18.000	2023-08-15 11:47:18.980	2023-08-25 16:03:26.088	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_042.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:47:23.000	2023-08-15 11:48:23.979	2023-08-25 16:03:26.150	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_043.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:07:20.000	2023-08-15 14:08:20.980	2023-08-25 16:03:16.852	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-17
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:48:29.000	2023-08-15 11:49:29.980	2023-08-25 16:03:26.197	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_046.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:49:33.000	2023-08-15 11:50:33.979	2023-08-25 16:03:26.259	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_046.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:01:33.000	2023-08-15 13:02:33.981	2023-08-25 16:03:12.219	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_095.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:07:03.000	2023-08-15 11:08:03.980	2023-08-25 16:03:22.874	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-4
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:50:38.000	2023-08-15 11:51:38.979	2023-08-25 16:03:26.306	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_046.3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:51:43.000	2023-08-15 11:52:43.980	2023-08-25 16:03:26.493	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_047.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:52:49.000	2023-08-15 11:53:49.979	2023-08-25 16:03:26.571	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_050.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:53:54.000	2023-08-15 11:54:54.980	2023-08-25 16:03:26.618	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_051.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:55:00.000	2023-08-15 11:56:00.979	2023-08-25 16:03:26.696	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_052.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:43:05.000	2023-08-15 10:44:05.980	2023-08-25 16:03:10.909	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:56:05.000	2023-08-15 11:57:05.980	2023-08-25 16:03:26.758	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_053.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:38:45.000	2023-08-15 10:39:45.980	2023-08-25 16:03:26.977	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:32:15.000	2023-08-15 10:33:15.980	2023-08-25 16:03:16.915	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:45:18.000	2023-08-15 10:46:18.980	2023-08-25 16:03:12.375	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_002.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:57:10.000	2023-08-15 11:58:10.980	2023-08-25 16:03:27.055	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_054.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:08:09.000	2023-08-15 11:09:09.980	2023-08-25 16:03:22.936	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-5
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:58:16.000	2023-08-15 11:59:16.980	2023-08-25 16:03:27.117	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_057.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:59:22.000	2023-08-15 12:00:22.980	2023-08-25 16:03:27.180	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_058.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:00:28.000	2023-08-15 12:01:28.980	2023-08-25 16:03:27.382	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_059.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:01:33.000	2023-08-15 12:02:33.980	2023-08-25 16:03:27.601	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_059.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:02:38.000	2023-08-15 12:03:38.979	2023-08-25 16:03:27.694	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_059.3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:03:44.000	2023-08-15 12:04:44.980	2023-08-25 16:03:27.772	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-8
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:04:50.000	2023-08-15 12:05:50.980	2023-08-25 16:03:27.835	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-9
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:40:50.000	2023-08-15 12:41:50.979	2023-08-25 16:03:10.940	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-11
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:34:24.000	2023-08-15 10:35:24.980	2023-08-25 16:03:23.311	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:05:56.000	2023-08-15 12:06:56.980	2023-08-25 16:03:27.913	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-8
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:51:49.000	2023-08-15 10:52:49.980	2023-08-25 16:03:16.977	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_007.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:09:14.000	2023-08-15 11:10:14.980	2023-08-25 16:03:22.983	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-4
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:07:01.000	2023-08-15 12:08:01.980	2023-08-25 16:03:28.053	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-9
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:39:50.000	2023-08-15 10:40:50.979	2023-08-25 16:03:28.131	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:08:07.000	2023-08-15 12:09:07.980	2023-08-25 16:03:28.194	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-8
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:09:13.000	2023-08-15 12:10:13.687	2023-08-25 16:03:28.256	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-9
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:10:17.000	2023-08-15 12:11:17.980	2023-08-25 16:03:28.334	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-8
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:11:23.000	2023-08-15 12:12:23.980	2023-08-25 16:03:28.521	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-9
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:12:28.000	2023-08-15 12:13:28.980	2023-08-25 16:03:28.584	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_060.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:02:39.000	2023-08-15 13:03:39.980	2023-08-25 16:03:12.422	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_096.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:13:33.000	2023-08-15 12:14:33.979	2023-08-25 16:03:28.630	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_061.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:14:39.000	2023-08-15 12:15:39.979	2023-08-25 16:03:28.677	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_061.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:41:56.000	2023-08-15 12:42:56.979	2023-08-25 16:03:11.080	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_079.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:10:20.000	2023-08-15 11:11:20.687	2023-08-25 16:03:23.030	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-5
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:08:27.000	2023-08-15 14:09:27.981	2023-08-25 16:03:17.040	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-16
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:15:44.000	2023-08-15 12:16:44.980	2023-08-25 16:03:28.724	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_063.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:16:49.000	2023-08-15 12:17:49.980	2023-08-25 16:03:28.880	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_064.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:17:55.000	2023-08-15 12:18:55.980	2023-08-25 16:03:28.927	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_065.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:43:02.000	2023-08-15 12:44:02.980	2023-08-25 16:03:11.127	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_080.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:03:44.000	2023-08-15 13:04:44.980	2023-08-25 16:03:12.484	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-12

C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:44:07.000	2023-08-15 12:45:07.980	2023-08-25 16:03:11.174	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_080.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:45:12.000	2023-08-15 12:46:12.979	2023-08-25 16:03:11.205	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_081.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:19:01.000	2023-08-15 12:20:01.980	2023-08-25 16:03:09.534	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_065.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:46:18.000	2023-08-15 12:47:18.980	2023-08-25 16:03:11.268	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_081.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:04:50.000	2023-08-15 13:05:50.979	2023-08-25 16:03:12.516	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-13
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:21:12.000	2023-08-15 12:22:12.979	2023-08-25 16:03:09.598	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_067.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:11:45.000	2023-08-15 14:12:45.979	2023-08-25 16:03:17.289	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-17
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:47:23.000	2023-08-15 12:48:23.980	2023-08-25 16:03:11.392	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_082.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:05:56.000	2023-08-15 13:06:56.686	2023-08-25 16:03:12.562	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-12
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:07:03.000	2023-08-15 13:08:03.686	2023-08-25 16:03:12.718	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-13
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:08:09.000	2023-08-15 13:09:09.979	2023-08-25 16:03:12.781	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-12
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:09:15.000	2023-08-15 13:10:15.979	2023-08-25 16:03:12.828	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-13
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:10:21.000	2023-08-15 13:11:21.980	2023-08-25 16:03:12.874	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-12
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:04:03.000	2023-08-15 14:05:03.979	2023-08-25 16:03:16.587	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-16
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:11:28.000	2023-08-15 13:12:28.980	2023-08-25 16:03:12.921	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-13
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:12:33.000	2023-08-15 13:13:33.979	2023-08-25 16:03:13.062	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_098.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:46:22.000	2023-08-15 10:47:22.979	2023-08-25 16:03:13.124	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_002.3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:13:39.000	2023-08-15 13:14:39.980	2023-08-25 16:03:13.155	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_099.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:09:33.000	2023-08-15 14:10:33.980	2023-08-25 16:03:17.071	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-17
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:14:44.000	2023-08-15 13:15:44.686	2023-08-25 16:03:13.218	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_099.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:12:51.000	2023-08-15 14:13:51.980	2023-08-25 16:03:17.336	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_055.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:22:17.000	2023-08-15 12:23:17.980	2023-08-25 16:03:09.862	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_067.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:15:49.000	2023-08-15 13:16:49.979	2023-08-25 16:03:13.264	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_100.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:16:54.000	2023-08-15 13:17:54.981	2023-08-25 16:03:13.405	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_003.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:18:00.000	2023-08-15 13:19:00.980	2023-08-25 16:03:13.436	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_003.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:13:35.000	2023-08-15 11:14:35.980	2023-08-25 16:03:23.358	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_019.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:19:05.000	2023-08-15 13:20:05.980	2023-08-25 16:03:13.483	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_004.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:20:11.000	2023-08-15 13:21:11.980	2023-08-25 16:03:13.545	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_004.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:21:16.000	2023-08-15 13:22:16.980	2023-08-25 16:03:13.592	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_006.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:48:28.000	2023-08-15 12:49:28.980	2023-08-25 16:03:11.439	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_084.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:22:22.000	2023-08-15 13:23:22.980	2023-08-25 16:03:13.732	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_007.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:23:27.000	2023-08-15 13:24:27.980	2023-08-25 16:03:13.779	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_007.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:47:27.000	2023-08-15 10:48:27.980	2023-08-25 16:03:13.826	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_003.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:13:58.000	2023-08-15 14:14:58.979	2023-08-25 16:03:17.383	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_055.3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:24:32.000	2023-08-15 13:25:32.979	2023-08-25 16:03:13.857	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_009.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:23:24.000	2023-08-15 12:24:24.980	2023-08-25 16:03:09.901	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_067.3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:25:38.000	2023-08-15 13:26:38.979	2023-08-25 16:03:13.904	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_011.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:14:40.000	2023-08-15 11:15:40.980	2023-08-25 16:03:23.404	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_020.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:26:44.000	2023-08-15 13:27:44.980	2023-08-25 16:03:14.044	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_011.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:27:51.000	2023-08-15 13:28:51.981	2023-08-25 16:03:14.107	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_013.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:49:33.000	2023-08-15 12:50:33.979	2023-08-25 16:03:11.486	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_085.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:28:56.000	2023-08-15 13:29:56.980	2023-08-25 16:03:14.138	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_014.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:30:01.000	2023-08-15 13:31:01.980	2023-08-25 16:03:14.200	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_019.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:31:07.000	2023-08-15 13:32:07.980	2023-08-25 16:03:14.247	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_020.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:32:13.000	2023-08-15 13:33:13.980	2023-08-25 16:03:14.388	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_024.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:33:19.000	2023-08-15 13:34:19.980	2023-08-25 16:03:14.434	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-14
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:28:50.000	2023-08-15 12:29:50.980	2023-08-25 16:03:10.176	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_071.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:34:24.000	2023-08-15 13:35:24.980	2023-08-25 16:03:14.466	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	NIST610-15
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:48:32.000	2023-08-15 10:49:32.980	2023-08-25 16:03:14.512	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_004.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:40:55.000	2023-08-15 10:41:55.980	2023-08-25 16:03:09.503	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:24:29.000	2023-08-15 12:25:29.980	2023-08-25 16:03:09.939	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_068.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:50:38.000	2023-08-15 12:51:38.980	2023-08-25 16:03:11.533	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_086.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:35:29.000	2023-08-15 13:36:29.980	2023-08-25 16:03:14.544	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-14
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:36:35.000	2023-08-15 13:37:35.980	2023-08-25 16:03:14.715	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-15
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:37:41.000	2023-08-15 13:38:41.980	2023-08-25 16:03:14.778	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-14
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:38:46.000	2023-08-15 13:39:46.980	2023-08-25 16:03:14.809	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	TEM-15
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:39:51.000	2023-08-15 13:40:51.980	2023-08-25 16:03:14.856	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-14
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:40:57.000	2023-08-15 13:41:57.979	2023-08-25 16:03:14.902	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	PLE-15
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:42:03.000	2023-08-15 13:43:03.980	2023-08-25 16:03:15.074	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_026.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:15:04.000	2023-08-15 14:16:04.980	2023-08-25 16:03:17.430	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_055.4

C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:43:09.000	2023-08-15 13:44:09.980	2023-08-25 16:03:15.136	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_026.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:36:30.000	2023-08-15 12:37:30.979	2023-08-25 16:03:10.597	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	91500-11
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:44:13.000	2023-08-15 10:45:13.980	2023-08-25 16:03:11.580	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_002.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:44:15.000	2023-08-15 13:45:15.980	2023-08-25 16:03:15.183	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_027.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:45:21.000	2023-08-15 13:46:21.687	2023-08-25 16:03:15.246	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_031.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:25:34.000	2023-08-15 12:26:34.980	2023-08-25 16:03:09.974	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_069.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:49:38.000	2023-08-15 10:50:38.980	2023-08-25 16:03:15.308	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_004.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:46:28.000	2023-08-15 13:47:28.979	2023-08-25 16:03:15.448	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_032.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:47:34.000	2023-08-15 13:48:34.687	2023-08-25 16:03:15.480	209	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_034.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:48:40.000	2023-08-15 13:49:40.980	2023-08-25 16:03:15.526	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_034.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:49:46.000	2023-08-15 13:50:46.980	2023-08-25 16:03:15.573	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_034.3
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:50:52.000	2023-08-15 13:51:52.980	2023-08-25 16:03:15.604	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_036.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:16:10.000	2023-08-15 14:17:10.980	2023-08-25 16:03:17.586	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_057.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 12:51:44.000	2023-08-15 12:52:44.979	2023-08-25 16:03:11.720	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_087.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:15:45.000	2023-08-15 11:16:45.980	2023-08-25 16:03:23.451	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_022.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:51:58.000	2023-08-15 13:52:58.980	2023-08-25 16:03:15.760	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_038.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:53:04.000	2023-08-15 13:54:04.980	2023-08-25 16:03:15.823	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_039.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:54:10.000	2023-08-15 13:55:10.980	2023-08-25 16:03:15.870	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_040.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:55:16.000	2023-08-15 13:56:16.980	2023-08-25 16:03:15.916	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_043.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:17:16.000	2023-08-15 14:18:16.980	2023-08-25 16:03:17.632	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_057.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:18:22.000	2023-08-15 14:19:22.980	2023-08-25 16:03:17.679	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_058.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 10:52:54.000	2023-08-15 10:53:54.980	2023-08-25 16:03:17.726	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR07_UPb_008.1
C:/Users/Supervisor/Documents/Chloe	2023-08-15 13:56:22.000	2023-08-15 13:57:22.980	2023-08-25 16:03:15.963	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_043.2
C:/Users/Supervisor/Documents/Chloe	2023-08-15 14:19:28.000	2023-08-15 14:20:28.980	2023-08-25 16:03:17.757	210	9	Si29,Hg200,Pb204,Pb206,Pb207,Pb208	CR08_UPb_058.2

Laser Log Files

File	File start time	File end time	Time file loaded	Samples	Offset (s)	Widths
C:/Users/Supervisor/Documents/Chloe	2023-08-15 11:31:12.457	2023-08-15 16:18:04.685	2023-08-25 16:03:37.132	NIST610-1,PLE-4,CR07_UPb_084.1,TEM	-3604.66	30

	Final Pb206/U238_m	Final Pb206/U	Final Pb206/U	Final Pb206/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb207/U	Final Pb208/Th	Final Pb208/Th	Final Pb208/Th	Final Pb208/Th	Final Pb207/Pl	Final Pb207/Pl	Final Pb207/Pl	Final Pb207/Pl	Final U238/Pb	Final U238/Pb	Final U/Th_me	Approx_U_PPI	Approx_Th_PP	Approx_Pb_PPM_mean	rho 207Pb/20	rho 206Pb/238U v 207Pb/235U
CR07																								
CR07_UPb_002.1	0.064627464	0.001317387	403.669678	7.977738148	0.544038836	0.019120872	440.7089455	12.61016099	0.019628566	0.000798043	392.8495877	15.81645361	0.061648222	0.002195123	651.2298753	78.17599981	15.44903925	0.279971634	1.263124912	344.2577382	271.9458963	47.30729692	0.429383245	0.310771447
	0.060460931	0.002320603	378.3701384	14.10811353	0.510755219	0.026990329	418.4548032	18.0260458	0.038259819	0.002346538	758.7058657	45.68925022	0.060775432	0.002356446	625.0372966	82.30615984	16.63230655	0.645208288	21.67057865	920.5063701	43.93737908	17.15280561	0.053222661	0.747228872
CR07_UPb_002.2	0.065188947	0.000827699	407.089985	5.010426838	0.492497522	0.017602439	405.9481174	11.97595089	0.020010984	0.00053899	400.4512115	10.68354306	0.055168307	0.001958139	408.702878	84.32417141	15.35963775	0.1976137	2.111363305	329.3222245	156.0249327	28.32675435	0.220098651	0.169171687
CR07_UPb_002.3	0.071507454	0.001176579	445.1783341	7.080654207	0.550452311	0.016378739	444.9336181	10.72892873	0.021448385	0.000522478	428.9197757	10.33148439	0.055909787	0.001497263	443.5813142	58.96313704	13.9724458	0.230215306	2.723704616	1685.563107	645.1800921	126.5371149	0.205932893	0.71266539
CR07_UPb_003.1	0.052478942	0.00075094	329.7006702	4.599368533	0.491938814	0.016784894	405.4839531	11.40824335	0.018066043	0.000461049	361.8773556	9.15360752	0.068015822	0.002222895	858.7435759	70.57548602	19.10865219	0.274874361	1.382234733	333.4929417	239.032929	40.09597171	0.169443138	0.282478492
CR07_UPb_004.1	0.067498206	0.00128655	420.9795749	7.767545819	0.673737672	0.029206592	520.5084815	17.30420454	0.025456475	0.001193399	507.8214108	23.45061248	0.072326445	0.003093248	967.2767142	85.2811752	14.91505947	0.286995796	1.637070762	393.9174094	304.173483	62.2125604	0.325102641	0.117247553
CR07_UPb_004.2	0.073011303	0.002212697	453.9705957	13.26852014	1.015952891	0.070858437	699.2758019	34.04770396	0.034371479	0.002509705	681.7160733	48.81108939	0.100049811	0.005477836	1560.29293	97.21789994	13.96805735	0.40912382	1.714503746	381.8179285	302.6867954	78.12610302	-0.28597559	0.655878878
CR07_UPb_006.1	0.066552591	0.000861753	415.328807	5.20700506	0.509517561	0.018464451	417.124745	12.3748848	0.020697595	0.00054953	414.0442585	10.88316384	0.055663496	0.002064897	406.7335335	84.93428488	15.0312835	0.183621021	1.689980731	167.5505184	98.60262926	18.95863293	0.386124618	-0.05805876
CR07_UPb_007.1	0.06724173	0.001014087	419.5025513	6.124201285	0.509683805	0.021079852	417.7289724	14.14943508	0.020641554	0.000755875	412.9336142	14.97126026	0.055569294	0.002338823	419.684876	93.06438245	14.88787524	0.223461704	1.578794654	420.87993	266.2582851	48.6125098	0.281838646	0.069922194
CR07_UPb_008.1	0.069510023	0.001148082	433.1715239	6.916872554	0.534072666	0.01865934	434.0298715	12.36419625	0.021225692	0.00059058	424.5089266	11.68723392	0.056488568	0.001932962	458.7327601	78.02511583	14.41950364	0.236529584	1.429271484	522.8844186	362.2029956	68.25789613	0.335790216	0.366994525
CR07_UPb_009.1	0.066016525	0.001069277	412.0619483	6.466714296	0.716291091	0.062655368	542.166508	34.28474244	0.029146805	0.002488882	579.4069608	48.40584145	0.078209121	0.006363107	1080.629106	139.443694	15.16629286	0.229462397	2.190827226	285.0148777	134.7071796	37.48081046	-0.26313418	0.426943296
CR07_UPb_012.1	0.06505121	0.000775385	406.2564255	4.692805112	0.498934734	0.017932009	410.0250135	12.22972672	0.02019019	0.000501385	404.0040132	9.932464617	0.055689917	0.001948153	421.8233644	79.24385757	15.37309076	0.174018764	1.588439293	246.4267846	155.6770872	29.22442456	0.074732775	0.249130143
CR07_UPb_012.2	0.0649958	0.000733153	405.9254707	4.437941206	0.494473603	0.016215556	407.318683	10.9786494	0.020239598	0.000526431	404.976895	10.42644484	0.055279798	0.001784341	419.067552	71.71686726	15.39942667	0.174301579	2.182938269	300.221865	137.8473223	25.98424434	0.280165834	0.135111456
CR07_UPb_013.1	0.06659065	0.000819622	415.5636424	4.952254823	0.513660056	0.020042508	419.5687851	13.4914483	0.020995724	0.000552857	419.9471196	10.94292363	0.05623494	0.002226885	432.5221985	86.88519958	15.03965961	0.18375141	1.735228436	177.0382858	101.9953992	19.99221419	0.217578198	0.067923344
CR07_UPb_016.1	0.067021216	0.000832064	418.164763	5.027450132	0.500932452	0.018339683	411.3179798	12.45667397	0.020938975	0.000614098	418.8070539	12.15816068	0.054487114	0.001979786	359.7292716	87.00446219	14.94385697	0.186768506	2.03418028	186.5358556	102.5953686	19.70066434	0.220244474	0.063396299
CR07_UPb_017.1	0.066430592	0.000981075	414.5829445	5.936837197	0.4975662	0.017884939	409.2766932	12.17262141	0.020130923	0.000559943	402.8209152	11.09285319	0.054995628	0.001963268	388.4341741	82.38406557	15.09370835	0.232631949	1.797139677	288.9434674	161.8834202	29.53772075	0.257933601	0.23672826
CR07_UPb_017.2	0.064401808	0.000895628	402.3098917	5.425045096	0.497756215	0.015940935	409.6050184	10.83869536	0.019701095	0.000561811	394.2942044	11.13820754	0.056266951	0.001819336	451.835297	75.32155478	15.5673391	0.219296564	1.662946633	324.8033295	198.4233326	37.20338568	0.349173059	0.120797077
CR07_UPb_018.1	0.067529311	0.001218223	421.2306821	7.351186187	0.577041035	0.022884395	462.0680317	14.72974991	0.02347415	0.000630066	468.9695526	12.44347246	0.062769411	0.002634768	687.1116733	87.61009534	14.83396095	0.262909633	1.746884423	461.3802274	263.6802641	54.5374891	0.388823457	0.073389415
CR07_UPb_018.2	0.069745501	0.001077351	434.5732691	6.484791134	0.533833957	0.017940833	433.5763719	11.8973583	0.021424002	0.000530251	428.4322411	10.49236692	0.055665966	0.0016845	425.2129267	69.0709849	14.38800501	0.217644073	2.203995723	444.5603549	200.6090792	39.65498242	-0.08626198	0.596206253
CR07_UPb_019.1	0.06693015	0.000889009	417.6082229	5.37092277	0.50957905	0.016663093	417.5292042	11.21439996	0.020484574	0.000488584	409.840282	9.676180197	0.055554592	0.00178178	416.599922	73.2346337	14.97163532	0.199320654	1.479206463	382.2810016	266.4335808	49.57165354	0.20413513	0.264456239
CR07_UPb_019.2	0.066059067	0.001001558	412.3259625	6.061245536	0.504727138	0.016350648	414.2758677	10.97447744	0.019517117	0.000485613	390.6654702	9.623869028	0.055508143	0.001678152	432.0913218	67.80490918	15.16202568	0.227209977	1.636084907	417.0314037	269.096507	48.04657527	0.086355315	0.47007767
CR07_UPb_020.1	0.06738919	0.000830015	420.3878734	5.01093914	0.5044765	0.018121493	413.7811467	12.11082632	0.02073693	0.000599798	414.8094738	11.87786082	0.054676526	0.001926303	372.7483147	78.86627204	14.86127205	0.181655378	2.30182077	252.3085627	111.0107221	21.35466764	0.257110698	0.23720591
CR07_UPb_022.1	0.064822198	0.000794297	404.8676808	4.807468383	0.49429587	0.016638964	407.1092159	11.30174842	0.020298988	0.000501333	406.1596736	9.932901737	0.055476299	0.001832311	425.8358415	75.18766421	15.44950957	0.188578172	1.767415451	308.6150941	180.7074622	34.75453804	0.164895373	0.205597206
CR07_UPb_022.2	0.066183783	0.001109305	413.0653151	6.704765857	0.534337636	0.015880959	434.2711334	10.55606692	0.02275749	0.000520743	454.8105096	10.29192406	0.05861323	0.001573478	546.6901641	58.80776856	15.17984954	0.254850029	1.903011872	1009.597775	535.5127604	111.6751085	0.151608322	0.702346992
CR07_UPb_024.2	0.072356137	0.001207406	450.2670108	7.256885472	0.805516939	0.026669556	598.7153145	15.07173911	0.041226012	0.001457584	816.223382	28.34156061	0.080477997	0.002325678	1205.385579	55.16704069	13.85192107	0.220801131	4.59076752	759.7541335	167.7512669	65.91230709	0.020450297	0.630565025
CR07_UPb_025.1	0.066228015	0.001002189	413.3540307	6.061759373	0.506064523	0.016055563	415.3159932	10.851862	0.020802152	0.000495078	416.130914	9.801828068	0.055577031	0.001635268	425.1436768	65.95319628	15.11356544	0.24659475	1.56954374	498.5704005	321.5877124	61.4669225	0.004060626	0.592946839
CR07_UPb_027.1	0.06673334	0.000796324	416.4287835	4.812367944	0.496328486	0.017195372	408.3849527	11.7351225	0.020719048	0.00050536	414.4801866	10.00733713	0.054090981	0.001857474	348.8074115	81.65126396	15.00430553	0.179582654	1.386687456	254.0348525	184.1647649	35.21278236	0.191347143	0.144791822
CR07_UPb_028.1	0.068522745	0.001252106	428.1807333	7.876212048	0.782751473	0.071794563	577.1240379	39.3330193	0.032166029	0.003428793	637.2792098	66.11877435	0.081702308	0.006412056	1144.869131	152.7051761	14.65228084	0.275306799	1.694541258	165.2945529	118.6468414	27.76396219	-0.60795903	0.735609739
CR07_UPb_028.2	0.069380074	0.000993593	432.3822164	5.99001483	0.527933414	0.016297272	429.9333198	10.85002258	0.021487957	0.000492892	429.707046	9.751481962	0.055092306	0.0015796	405.9682098	63.94231881	14.40216321	0.205665837	2.01462711	528.9475691	263.6077359	52.81357841	0.041716967	0.555777969
CR07_UPb_029.1	0.066371271	0.00075278	414.245193	4.549649677	0.525332378	0.019809845	427.5377216	13.06420918	0.021286098	0.000594565	425.6856072	11.76692145	0.057277395	0.002110328	473.2007579	80.29415315	15.0497148	0.186426874	1.741629906	232.4401317	134.0620897	26.56764561	0.017846539	0.210284387
CR07_UPb_030.1	0.066770749	0.000838176	416.650239	5.065894213	0.498800264	0.016903964	410.1402915	11.47096209	0.020920421	0.000511795	418.4668398	10.13101458	0.054251497	0.001852634	357.5018554	77.87523658	15.00151976	0.190200977	1.452532995	229.6453898	158.3517803	30.85927967	0.284820695	0.068588084
CR07_UPb_030.2	0.071495556	0.001383599	445.0571892	8.309021827	0.542933503	0.017343525	439.7089649	11.38806201	0.021589023	0.000519229	431.700111	10.27212475	0.054898206	0.001499649	405.0785505	59.7898157	14.08326008	0.261919728	2.563673725	707.6134158	274.46431	56.16594446	0.140276603	0.785244944
CR07_UPb_032.1	0.066135767	0.000912712	412.8024808	5.527029782	0.503796035	0.016249864	413.6710242	10.94654968	0.020810329	0.000562852	416.2737852	11.14338264	0.055312399	0.001688917	423.3134682	68.05606443	15.15935206	0.221208754	1.855816174	297.0273578	160.5956703	30.92061452	0.151034243	0.354771106
CR07_UPb_033.1	0.064062715	0.000779371	400.2693167	4.721996306	0.578550684	0.025260389	461.3822699	16.03323509	0.021858572	0.000741329	436.9670819	14.64148339	0.065587558	0.002826041	758.6185796	91.47069608	15.63182668	0.191177165	1.392231411	281.7188375	202.9339125	42.12279353	-0.09847104	0.312418371
CR07_UPb_033.2	0.068100935	0.001089652	424.6507607	6.574940847	0.532923887	0.015986412	433.311112	10.56886925	0.021957292	0.000495298	438.9929917	9.796942869	0.056964155	0.001507268	484.6798033	58.87832171	14.71161016	0.224231582	1.85495766	1149.594241	621.3690505	125.7045173	0.017843674	0.742948514
CR07_UPb_037.1	0.040951718	0.003340918	257.9212236	20.64662744	0.394928796	0.021564264	335.5593481	15.7814769	0.02098879	0.00076447	419.7434945	15.1105394	0.076908904	0.006045456	1006.983198	142.2919572	28.20313218	2.356892125	2.002378195	269.444185	146.9411678	28.10904882	0.769698182	0.647385976
CR07_UPb_037.2	0.058984102	0.001176051	369.3714908	7.164405955	0.472622647	0.016242629	392.2898922	11.207287	0.020126507	0.000530928	402.7357497	10.51943605	0.0582274	0.001904307	519.7771404	72.34103598	17.08231621	0.353464118	2.321359274	285.5912257	124.1211135	23.27093527	0.264592532	0.465066632
CR07_UPb_038.1	0.064249102	0.000832943	401.3931726	5.043830308	0.514764911	0.018154115	422.1022894	12.64373927	0.022150232	0.00064454	442.7701624	12.74115704	0.058301664	0.002023841	517.8848286	75.69258337	15.59303111	0.20102014	2.469008464	248.6429204	102.6899002	20.7999065	0.069319397	0.304084793
CR07_UPb_040.1	0.066155809	0.000809101	412.9359369	4.895277133	0.511412397	0.016783663	419.8515351	11.72122367	0.021036496	0.000534077	420.7596211	10.56995355	0.056114437	0.001837947	451.2419472	74.80948715	15.11698664	0.178157721	1.617629278	281.1261867	174.9286319	34.20632659	0.297135236	0.065394216
CR07_UPb_041.1	0.067094911	0.00088335	418.6039475	5.337580704	0.515928969	0.01631627	421.8681271	10.91976075	0.020989045	0.000495105	419.8298416	9.805843433	0.055705771	0.001799684	430.9010954	68.6651086	14.93464833	0.199019225	1.245982999	372.7893468	299.0379209	58.96135741	0.260814309	0.140723031
CR07_UPb_041.2	0.068427005	0.001067857	426.623513	6.441820113	0.543426068	0.017091776	440.114605	11.17222319	0.02174956	0.000526017	434.8760668	10.4084155	0.057896427	0.001657655	516.1773475	63.43498636	14.66789008	0.230190379	1.995373003	747.3872736	375.4361777	75.10149448	0.096633329	0.574236319
CR07_UPb_042.1	0.052751352	0.002013782	331.1149836	12.32720792	0.453195495	0.016540959	378.6272556	11.53021071	0.019943572	0.000508038	399.1145052	10.06983743	0.063713603	0.002523612	696.0155336	84.35291381	19.63421309	0.767848936	1.826104977	339.0898092	194.5683358	36.16201119	0.716869004	0.588131384
CR07_UPb_042.2	0.066655755	0.000886625	415.949358	5.359984217	0.530431669	0.018943605	431.0946803	12.55617145	0.022567656	0.000611977	451.0328298	12.09569178	0.057990894	0.002050291	512.8754644	75.95617131	15.03479725	0.202968288	2.176625798	205.5285165	96.350117	20.11513973	0.214032411	0.184357367
CR07_UPb_043.1	0.066665118	0.000975392	416.012939	5.895754674	0.507381526	0.019351982	416.0730484	12.96193639	0.020845083	0.00075304	416.9466131	14.90915036	0.055618896	0.002051689	421.2166531	80.80783501	15.02405387	0.221429246	2.369594131	243.4894612	102.8783778	19.486217	0.055153622	0.299164529
CR07_UPb_046.1	0.065699639	0.000854976	410.1716503	5.172569478	0.501288211	0.020252526	411.1696544	13.61442654	0.02034738	0.000551734	407.1062573	10.92823994	0.055544517	0.00219017	395.3001745	90.6048229	15.22716625	0.189926588	1.726270102	158.3331368	92.9190449	17.70707879	0.103706923	0.202645781
CR07_UPb_046.2	0.063392704	0.000959626	396.2087649	5.81637101	0.490988261	0.023007469	404.6737636	15.59089842	0.018992594	0.000638883	380.2563057	12.67184292	0.056646343	0.002484532	455.1782112	97.55672931	15.79753594	0.238854241	2.23424018	263.2678741	117.7273195	19.98406088	-0.11354324	0.398704033
	0.040256349	0.003391944	253.949009	20.99015176	0.351356801	0.027552942	303.1093654	20.53652125	0.015063324	0.000939068	302.0849048	18.69341097	0.063926484	0.002882264	725.1826449	102.5947955	27.46323882	2.312723746	3.217998227	342.734766	106.7935893	15.41507426	0.43436763	0.867242408
CR07_UPb_046.3	0.066326161	0.001258565	413.9118031	7.60387245	0.50683829	0.016073547	415.8368616	10.77238081	0.020960597	0.00047292	419.2728365	9.364836997	0.055646429	0.001506958	432.2310062	60.69510785	15.16363619	0.285434597	2.027691762	1098.649544	545.4075957	105.2248428	0.083517077	0.781148153
CR07_UPb_047.1	0.066968793	0.000844514	417.8462905	5.104399097	0.508054887	0.017679366	416.2916681	11.83391871	0.021276464	0.000549134	425.5065449	10.86622723	0.055203965	0.001942297	403.3344963	82.2968436	14.93802878	0.183076807	1.923765758	197.5442569	103.8406463	20.8561321	0.323001653	-0.01825357
CR07_UPb_050.1	0.066417006	0.000777667	414.5187661	4.701116423	0.514627102	0.016565247	420.9399559	11.09550382	0.020955005	0.000508497	419.1524498	10.06664753	0.056514511	0.001800059	468.6746731	71.44467393	15.07363811	0.177204379	1.402418508	267.9123816	190.0253075	37.18253572	0.177584361	0.159791583
CR07_UPb_051.1	0.067472771	0.001009066	420.8697237	6.08594818	0.497620291	0.016356341	410.5899788	11.58989051	0.021253936	0.000505822	425.0715532	10.00743406	0.053676343	0.001680962	355.531612	72.03185481	14.86801551	0.216075346	1.786142296	460.3739749	266.9621358	54.27267351	0.16934565	0.36366316
CR07_UPb_052.1	0.067468449	0.000815661	420.8681043	4.927520052	0.498387906	0.017600851	409.7154164	11.94554263	0.021558075	0.000554625	431.0786706	10.97002902	0.05368578	0.001860696	348.8665249	80.36474252	14.84244554	0.182569073	2.055976626	218.5341628	107.1910532	21.48745038	0.304769394	0.12240239
CR07_UPb_053.1	0.09613762	0.0029948	591.1821206	17.64735779	3.436056183	0.301984393	1450.198938	76.73880433	0.148149327	0.012398877	2764.077385	219.9163396	0.249402932	0.01692491	3066.284692	129.8635661	10.59995557	0.342198667	2.235262582	130.7559193	58.07433487	70.25047735	-0.86433525	0.926301843
CR07_UPb_054.1	0.069248515	0.001147369	431.5666139	6.905675639	0.520279883	0.016574541	425.8449138	11.50771901	0.021154067	0.000493003	423.0978093	9.759932963	0.054797677	0.001523631	400.9496018	59.52839105	14.50247824	0.230865376	1.856785364	777.9382775	420.1742476	83.35828107	-0.11653102	0.7455192
CR07_UPb_057.1	0.072740722	0.002491476	452.5663579	14.97359	0.77408915	0.051392067	580.3162389	28.88249076	0.030635005	0.001941771	609.7459333	38.03069882	0.077926808	0.003453263	1135.301248	87.77673667	13.82279486	0.47802716	1.897213222	1000.508145	529.5950377	140.7524996	-0.434655	0.836444893
CR07_UPb_058.1	-0.341880077	1.58893841	10351.77523	1039.718247	147.985468	150.5008533	6478.831312	14.37668325	57895.06017	46206.60227	250066.9325	1115.990942	0.194280451	0.174452067	4905.342288	2.126253939	-0.02476296	0.186751984	878.050202	0.001154276	-4.1E-08	-0.02944575	-0.00808322	0.004405247
CR07_UPb_059.1	0.064844394	0.000791525	405.0025593	4.795848994	0.489040965	0.015836929	403.6647337	10.78197927	0.01995365	0.000465607	399.3244126	9.230581705	0.054883159	0.001725088	398.0664604	68.65450181	15.44433719	0.194646932	1.27249071	386.7308191	312.1554257	59.72761166	0.147938389	0.223726477
CR07_UPb_059.2	0.066530785	0.00089424	415.192697	5.404526125	0.529712892	0.020746534	430.2656949	13.39569082	0.020441961	0.000520734	408.9875923	10.30705664	0.057331706	0.002010894	488.5379594	76.02503199	15.06455303	0.204432283	1.497133081	402.0651014	268.0386432	51.73621076	-0.05013828	0.402693743
CR07_UPb_059.3	0.068433719	0.001112008	426.6563868	6.706210058	0.528736249	0.016090766	430.5040868	10.64666342	0.021739388	0.000530023	434.6734173	10.48735473	0.056246916	0.001527207	455.3346761	59.94449815	14.67433043	0.237030689	1.698691763	891.4589766	519.2539902	102.5736253	0.049706459	0.662029679
CR07_UPb_060.1	0.067480231	0.000815196	420.9392898	4.922095233	0.516181809	0.018350198	421.6412636	12.25203131	0.020926006	0.000652613	418.537657	12.89844181	0.055226407	0.00188204	404.9602131	79.75423075	14.83944555	0.178963241	3.141715147	279.5465293	124.6175726	23.63109661	0.162970301	0.234231343
CR07_UPb_061.1	0.067549041	0.000941414	421.3396155	5.674492081	0.520846265	0.017334558	424.9808973	11.61727348	0.021008512	0.000575525	420.1945603	11.3938528	0.055935989	0.00178623	431.2476023	74.21985464	14.8400275	0.196838793	1.770463491	278.6262898	161.303701	31.6144602	0.170263752	0.361319918
CR07_UPb_061.2	0.064543471	0.000889073	403.1687262	5.386036647	0.533679191	0.014668213	434.0293341	9.685074261	0.062345836	0.003860383	1219.469791	73.66616367	0.0601969	0.001508227	608.01692	53.59194704	15.53203576	0.218071826	5.656054775	4858.184693	887.4688603	503.2062127	0.098315859	0.76256246
CR07_UPb_063.1	0.066398322	0.001098377	414.363686	6.635146934	0.715211369	0.037123496	546.2953518	21.89128708	0.032711994	0.002467397	649.2866744	47.96619356	0.078785723	0.003747357	1116.524936	89.3402182	15.12776685	0.246434648	2.146729144	227.3713469	119.4174004	31.19815275	-0.1225184	0.446147446
CR07_UPb_064.1	0.062839987	0.001116834	392.8130424	6.776033044	0.493960435	0.014892526	407.2088747	10.12097192	0.019342406	0.000513633	387.1948707	10.19272904	0.057233578	0.001599541	492.5074259	60.23453525	15.96246032	0.278516146	2.00243759	1133.788945	563.0177147	101.5260131	0.287562723	0.603454751
CR07_UPb_065.1	0.057625051	0.001834089	360.9479015	11.08908335	0.714526799	0.047404417	548.9889054	29.67172	0.031276007	0.005115945	616.6614356	96.48418631	0.090053795	0.00475212	1361.181747	99.24363324	17.68376308	0.469655095	4.115918559	723.2099749	243.7466041	53.44107152	-0.16540714	0.820110153
CR07_UPb_065.2	0.066745808	0.000750924	416.509546	4.537793829	0.558539726	0.01805889	449.8989427	11.72470165	0.019955157	0.000500677	399.3467685	9.922557073	0.06066511	0.001994189	617.2584743	68.27696977	14.99501393	0.168937791	1.367322739	280.922607	205.0616642	37.91390109	0.170888995	0.081181495
CR07_UPb_066.1	0.068984164	0.000918637	430.0121116	5.541794421	0.517333092	0.021097143	422.2520176	14.25694373	0.021487793	0.000629456	429.6806675	12.45036275	0.054708055	0.002229216	366.9868896	97.54409661	14.51861535	0.196234156	1.945097073	246.6068546	137.9359197	26.3325307	0.133403093	0.095571291
CR07_UPb_067.1	0.067326439	0.001146867	420.0051655	6.928074313	0.505629646	0.022359314	414.8203026	14.96519657	0.0210432	0.000807414	420.8758331	15.98238724	0.054943675	0.00224174	393.386061	93.29135565	14.87988483	0.255900678	1.543143043	281.2227311	183.2624594	33.29076452	0.024269729	0.403152005
CR07_UPb_067.2	0.069405211	0.000938814	432.5416524	5.658289745	0.557182042	0.01854581	448.925659	12.06824546	0.021415904	0.000639734	428.2430177	12.65682159	0.058444241	0.001950844	526.0870692	74.56417149	14.43955862	0.195152998	2.003573384	318.8278339	160.3085071	31.29966293	0.313952392	0.141912757
CR07_UPb_067.3	0.072271143	0.001209182	449.7542008	7.27540785	0.634298904	0.026068466	496.7405156	15.8952619	0.024128237	0.000762169	481.8127279	15.02081315	0.06383991	0.002669539	707.7783773	83.41940195	13.9052446	0.241263542	1.957852086	836.831932	395.9579914	81.96674703	0.390400241	0.093241704
CR07_UPb_068.1	0.069247037	0.001941897	431.3861402	11.66964377	0.812683203	0.125126661	554.9958832	43.0297842	0.045407976	0.01042443	875.5013842	185.4868323	0.079579505	0.008517492	1015.375715	151.3108906	14.60918198	0.419859888	3.39203588	1588.934155	472.8039837	208.1260507	-0.62409707	0.888188656
CR07_UPb_069.1	0.067083469	0.000835073	418.5401507	5.045044976	0.501837501	0.0197982	413.2041393	13.81964465	0.020606078	0.00064727	412.2028985	12.81701779	0.054561293	0.002108286	356.2652795	90.06622551	14.93072128	0.186582967	2.580076234	148.5538603	58.39087088	11.14471867	0.061076364	0.299248108
CR07_UPb_070.1	0.067994522	0.001276404	423.977625	7.692942388	0.513879958	0.017061657	420.3530332	11.32723304	0.020804883	0.000463553	416.1901393	9.178997883	0.054886829	0.001546166	398.5670628	62.481146	14.7995475	0.270096997	1.627699309	829.7588884	510.649078	98.70179148	-0.02391393	0.738722283
CR07_UPb_071.1	0.067598884	0.000833165	421.6538099	5.031121904	0.515037209	0.018479636	420.8463671	12.31425723	0.021105773	0.000618742	422.1074819	12.23966668	0.055487525	0.001955141	413.6526187	82.92321776	14.81576023	0.183734013	1.75098832	263.5431884	165.3004265	31.20037773	0.179029584	0.155076612
CR07_UPb_071.2	0.06691508	0.001046928	417.4963141	6.33101127	0.531654597	0.020990584	433.2316233	14.45483975	0.021738263	0.000610328	434.630331	12.07477542	0.057853815	0.002356619	495.8098225	91.25082617	14.9689527	0.230708675	2.154635822	191.778372	88.00965845	17.58440301	0.358056849	-0.01240135
CR07_UPb_072.1	0.068086325	0.000824147	424.598626	4.97480866	0.511987853	0.017022161	419.0897038	11.48848825	0.021087053	0.000564021	421.7537375	11.16528668	0.054636141	0.001845523	374.7168302	78.03162266	14.69037781	0.186389953	1.477609723	245.8415087	165.9374108	32.41945374	0.324620272	-0.0110423
CR07_UPb_072.2	0.066494491	0.000758818	414.9891396	4.587692724	0.500893497	0.017017508	411.5345914	11.56480819	0.020441412	0.000517318	408.9775541	10.24628589	0.054739432	0.001849087	386.1778991	77.02209924	15.05370374	0.173435867	1.99933453	311.3996329	155.2022927	29.63968271	0.212400843	0.072233047
CR07_UPb_078.1	0.066735202	0.000938118	416.4421079	5.669257992	0.523775259	0.018777131	427.2462744	12.49584111	0.020290901	0.000555382	406.0049011	11.00779531	0.057431818	0.002115223	494.9593337	80.56964832	15.00141346	0.211584652	1.273191322	465.2758887	366.1729713	65.00533458	0.318160676	0.057468754
CR07_UPb_079.1	0.066574506	0.000797128	415.4689668	4.819433834	0.50348011	0.01650972	413.4052425	11.1837327	0.02092482	0.000540445	418.5469387	10.69969254	0.054779073	0.001782703	391.7040735	71.51225917	15.02390007	0.189589614	2.149895049	315.7787937	145.1562361	28.13451564	0.200247299	0.147452854
CR07_UPb_080.1	0.067319886	0.000867899	419.9644773	5.242601858	0.524159182	0.019504828	426.7526994	13.09505326	0.021262939	0.000576616	425.2310631	11.40627911	0.056696971	0.002118566	456.3811925	83.54362732	14.88262638	0.193728295	1.760588594	178.6090951	100.6591764	19.97882454	0.251506962	0.137752821
CR07_UPb_080.2	0.065789161	0.001024919	410.6905728	6.196390176	0.501600425	0.015307518	413.2814092	10.73284566	0.020866067	0.000478048	417.3984232	9.465895415	0.055277957	0.001536053	415.033692	63.07243042	15.22870503	0.246144081	1.973223073	629.0024437	316.6055286	61.62750102	0.082895895	0.671062667
CR07_UPb_081.1	0.066909896	0.000949751	417.4781961	5.741305928	0.520685472	0.018889702	424.6014879	12.61918458	0.021430259	0.000575156	428.5447628	11.38353143	0.056480208	0.001999724	444.3833953	81.9332954	14.98598662	0.217353839	1.387988334	256.4822995	186.1374447	37.24482315	0.172660965	0.243025991

CR07_UPb_081.2	0.066471387	0.00086484	414.8402377	5.23019425	0.501815096	0.017339795	412.2946078	11.60907526	0.021646485	0.000719137	432.7947291	14.21518734	0.055336849	0.002031682	402.3216008	80.55320901	15.07042346	0.199981323	2.344733574	234.4603882	100.1359838	19.79807193	0.399016704	-0.02883583
CR07_UPb_082.1	0.067707621	0.000900714	422.3021336	5.440940698	0.51721535	0.020188292	421.9469241	13.48843465	0.021861501	0.000677036	437.0461022	13.39355839	0.055272761	0.002152956	396.0657867	85.50387822	14.77491761	0.18724705	2.249745983	179.31961	84.03332641	17.10439285	0.267539868	0.152855055
CR07_UPb_084.1	0.066877532	0.000978979	417.2944311	5.91450551	0.509904879	0.022964392	417.241588	15.39649086	0.020792083	0.000675216	415.9074783	13.36782467	0.055486984	0.002373387	403.3857852	97.15540186	14.97848547	0.218992455	1.460509762	230.3057633	157.8521032	29.01702873	-0.05583643	0.532188799
CR07_UPb_085.1	0.072918786	0.001491241	453.6020461	8.959656642	0.563107583	0.017975575	452.9202978	11.61118129	0.021904834	0.000602548	437.9288551	11.91508696	0.056473581	0.001542402	469.5859861	64.2219741	13.82127859	0.287457871	3.124722444	799.0494429	259.3922276	52.9094276	0.221065156	0.64342942
CR07_UPb_086.1	0.068186678	0.001360784	425.1410947	8.206928106	0.520835983	0.017946304	425.021234	12.01230703	0.022156286	0.000533567	442.9232382	10.55314589	0.055719268	0.001582206	438.9627581	60.85353405	14.75527423	0.292695578	3.451690842	1415.183939	397.0307748	83.68464043	0.033144888	0.771523672
CR07_UPb_087.1	0.059057199	0.001989003	369.6816108	12.16034324	0.47847525	0.026022944	394.583152	17.77648783	0.017369228	0.000994986	347.8899577	19.77747658	0.058815928	0.002205086	537.7978961	74.61435116	17.22471478	0.677151348	2.761124591	973.9394362	474.7250505	71.56131181	-0.14369756	0.651408342
CR07_UPb_088.1	0.068059355	0.000873569	424.4296356	5.273535978	0.531306087	0.017639264	431.9376941	11.73400431	0.020470229	0.000509868	409.5506699	10.10200412	0.057004623	0.00172317	478.0285291	68.2966341	14.71987846	0.190947354	2.104523452	410.3400685	196.84343	36.85454559	-0.00320183	0.470779931
CR07_UPb_089.1	0.069000015	0.001027112	430.0848199	6.198934843	0.522056664	0.017220985	425.8197828	11.48423018	0.021883183	0.00061713	437.4942327	12.19922352	0.055203293	0.001664548	406.8327507	67.78537115	14.5412936	0.224443857	1.968425305	459.8081186	244.6910774	47.85391249	0.135546158	0.547462637
CR07_UPb_091.1	0.06751934	0.000834862	421.1733695	5.044530466	0.517488976	0.0169639	423.9771972	10.83265296	0.021536646	0.000565208	430.6519547	11.1821094	0.055428081	0.001806409	424.3141873	73.67794607	14.79728183	0.185792173	1.85717525	264.3061626	147.7719368	28.89554777	0.332579305	0.057226806
CR07_UPb_091.2	0.066117924	0.000971485	412.7043662	5.873984815	0.509080079	0.018261842	417.3131008	12.29032555	0.019079712	0.0006644	381.9733229	13.16449029	0.056486876	0.001865243	460.4434098	72.16822785	15.14961222	0.223857143	2.461402929	406.4855771	164.1441359	28.05808524	0.019502734	0.636136902
CR07_UPb_092.1	0.066377638	0.0011258	414.235523	6.805762639	0.552562978	0.015914796	446.3313785	10.45291578	0.022004257	0.00052061	439.9161677	10.29122578	0.060744931	0.001627379	628.1111639	59.59662648	15.1032356	0.247976129	2.514900539	1444.299023	581.7964901	119.4744811	0.164115264	0.695842395
CR07_UPb_093.1	0.063959573	0.000901388	399.6383393	5.461814938	0.490069342	0.015629159	404.5574757	10.62626974	0.020066791	0.000479957	401.5677084	9.510597183	0.055668295	0.001757604	434.6051917	75.8055277	15.66536194	0.222361251	1.766541364	512.026294	298.577958	55.01356442	0.296689178	0.270385798
CR07_UPb_093.2	0.064367768	0.000873386	402.1160881	5.288108156	0.502521491	0.013718145	413.2862852	9.239528483	0.021274357	0.000494639	425.4832123	9.79186324	0.056926102	0.001473641	485.5460323	57.26321456	15.55868773	0.209643513	3.02410195	2625.814154	905.5075098	172.0907023	0.247131827	0.587548971
CR07_UPb_095.1	0.068284947	0.000877858	425.7907944	5.296387975	0.526713816	0.016291783	429.1143633	10.83675861	0.021112734	0.000533132	422.2695311	10.55510662	0.055778325	0.00164893	436.9972441	70.92448165	14.67112932	0.188563043	1.907692453	384.392802	204.6199888	40.68377441	0.187011766	0.326441179
CR07_UPb_095.2	0.068737021	0.001153409	428.4792445	6.957751456	0.541951604	0.016077405	439.2947559	10.55677256	0.020615521	0.000473945	412.4370687	9.386555582	0.057453822	0.001531514	503.1573784	59.00293319	14.61789993	0.249126635	2.991684225	1718.797183	603.0685239	113.9284166	0.106642752	0.744787889
CR07_UPb_096.1	0.066811085	0.000800575	416.8983309	4.836983512	0.508138722	0.019914111	415.8904788	13.31356284	0.020939211	0.000611278	418.8120359	12.10210002	0.055404006	0.002147075	391.8180669	87.94626694	14.98703249	0.179458485	2.00902713	200.5921821	101.6933864	19.77437046	-0.00851577	0.476225149
CR07_UPb_098.1	0.066757597	0.000805027	416.5748994	4.863625165	0.515030242	0.017306531	421.0884895	11.60492251	0.02105766	0.000568992	421.1701247	11.26266164	0.056268353	0.001902578	440.8878631	75.90759607	14.98286719	0.187128074	2.408479839	211.3523142	88.04193262	17.34001151	0.151002531	0.180217767
CR07_UPb_099.1	0.066380624	0.000867403	414.2882168	5.240019786	0.516083523	0.018359226	421.5791818	12.20303078	0.020198901	0.000565678	404.1598034	11.20269133	0.057412645	0.002090092	488.0528533	75.98243058	15.09426255	0.194686314	1.881266665	203.6828091	119.2338401	21.91223763	0.228408984	0.34907022
CR07_UPb_099.2	0.070046297	0.001148801	436.3737332	6.923118323	0.535359944	0.017282291	434.7013009	11.43826516	0.021691812	0.000493334	433.7408301	9.761260917	0.05552122	0.001610801	422.3336236	64.77369462	14.34066395	0.240989469	2.484936733	629.5820834	253.8446667	52.11727514	0.036482802	0.638221145
CR07_UPb_100.1	0.067283366	0.000890903	419.7409983	5.378711887	0.519865434	0.018719544	424.0506092	12.44097244	0.020642709	0.000582114	412.9479167	11.52598507	0.056378021	0.002011812	448.506442	77.39679359	14.89359776	0.195623499	2.42572271	213.6553105	87.89515934	17.09121364	0.276659702	0.170498205
CR08_UPb_003.1	0.06182672	0.001621247	386.6730141	9.846581893	0.461260653	0.018860787	384.7018403	13.17724722	0.019739328	0.000582512	395.0753347	11.54896832	0.054699632	0.001971585	390.1531863	79.84346664	16.25353227	0.437546505	2.039870307	582.6559264	289.0135833	50.5461894	0.137173365	0.588157298
CR08_UPb_003.2	0.074063686	0.003814001	459.9801417	22.70917302	1.399470474	0.310065241	783.4967911	110.6329375	0.124227755	0.035350366	2224.971762	590.13028	0.123446522	0.020499325	1602.971782	267.9144824	13.97019611	0.606981479	7.516330818	1019.796946	134.6855052	132.7131782	-0.9041683	0.95838538
CR08_UPb_004.1	0.054309541	0.001055996	340.8655962	6.450062547	0.525954316	0.018213533	428.2521499	12.11824288	0.024142162	0.000620863	482.1359737	12.26043097	0.070016077	0.00217505	920.831844	66.88383597	18.53975803	0.353024046	3.040453077	595.6475351	216.9488326	48.44383331	0.186733628	0.568730061
CR08_UPb_004.2	0.066046429	0.000859003	412.2797384	5.193957093	0.520831888	0.023271199	424.6171258	15.50443878	0.02014629	0.00058295	403.1318831	11.55431071	0.057643354	0.002555995	486.7947552	99.87626497	15.15651793	0.196965236	1.543153392	268.4997617	173.7701756	31.57264361	0.128704226	0.093067532
CR08_UPb_006.1	0.065941079	0.000804824	411.6443772	4.866598105	0.496540919	0.017149184	408.8566352	11.59459392	0.020577765	0.000512769	411.6878845	10.15683653	0.054986038	0.001940644	405.5298469	83.80726666	15.17863705	0.184877828	1.271911702	354.5909269	277.8198152	51.60853383	0.343551772	-0.09016629
CR08_UPb_007.1	0.065038835	0.000722475	406.188661	4.372055733	0.503235603	0.016200861	413.3893903	10.92164042	0.020343024	0.000475747	407.0404888	9.424262829	0.056520749	0.001846996	456.7762179	71.36909972	15.38566614	0.170040795	1.40585686	395.7995142	280.1049669	53.42056657	0.185046214	0.077630526
CR08_UPb_007.2	0.067396457	0.00090779	420.4249149	5.484908266	0.536748378	0.02009154	435.1871113	13.19113621	0.02136624	0.000553651	427.2850116	10.95224651	0.057665352	0.002135156	511.1391707	79.41800834	14.86827335	0.203866622	1.606836734	309.3961247	193.0241626	37.86800891	0.36866832	-0.09459384
CR08_UPb_009.1	0.064442874	0.001078707	402.5667297	6.529628116	0.495584873	0.01969759	410.9581999	14.98304164	0.02004865	0.000516909	401.2097833	10.24528497	0.056330127	0.002077847	452.4879288	83.42785643	15.54589588	0.257241683	1.50017999	536.8915076	354.4470415	63.11458905	-0.00199875	0.602394838
CR08_UPb_011.1	0.066012308	0.000772886	412.0722869	4.674052049	0.503844545	0.01626845	414.7951399	10.47405819	0.020553147	0.000489536	411.1981448	9.695658561	0.055436039	0.001770207	419.6470709	67.85914574	15.15044607	0.185154647	1.826630661	425.1667807	232.0495117	44.7017383	0.168681735	0.156947228
CR08_UPb_011.2	0.057796625	0.001447337	362.0903489	8.828085594	0.510970386	0.018930011	418.071535	12.6398915	0.017125435	0.001263114	342.8747757	25.0816319	0.064532834	0.002157341	739.9984338	72.02861004	17.53560992	0.469663517	2.366607402	735.1024139	399.2571707	52.83361954	0.333420635	0.539638569
CR08_UPb_013.1	0.069538123	0.000835567	433.3540333	5.035618346	0.630423538	0.020436962	495.5158544	12.73595803	0.024511751	0.000588969	489.4388768	11.61701529	0.065862564	0.002146228	791.0790631	68.13289016	14.39998981	0.172953544	1.681397511	296.8310135	177.1770704	40.74198298	0.33787711	0.167691799
CR08_UPb_014.1	0.06120299	0.001751417	382.7450653	10.60721027	0.501287837	0.019349969	413.1119572	13.55748557	0.018766045	0.000742362	375.6909182	14.73144131	0.060018559	0.001678291	596.0732058	60.06059866	16.61445293	0.441730994	3.012362883	922.3432749	304.3848868	53.38026511	0.301787581	0.916663329
CR08_UPb_019.1	0.057354392	0.000810956	359.4908221	4.941409733	0.518521714	0.022551225	422.293745	15.15910896	0.017643985	0.00046236	353.494494	9.181815024	0.066045283	0.003051782	751.5022299	100.8061103	17.48134007	0.244118107	1.259217357	282.3160554	230.2696807	37.73559432	0.352572389	-0.00303192
CR08_UPb_020.1	0.066951314	0.000863274	417.7468219	5.217003793	0.553892193	0.024450559	446.193943	15.70941695	0.02186974	0.000595748	437.2477382	11.77883796	0.060251578	0.002622267	597.0735972	96.89448109	14.95436819	0.194819952	1.47128571	299.7075808	204.3126016	40.55267948	0.04063681	0.222868418
CR08_UPb_024.1	0.065729889	0.00094211	410.3626931	5.6990899	0.505407469	0.023609962	414.3741467	15.84211379	0.020150081	0.000604941	403.2079756	11.98303685	0.056264666	0.002625833	435.1534633	103.0821446	15.23302379	0.219376597	1.651778868	228.1773999	138.1452283	24.46937626	0.141791701	0.142250456
CR08_UPb_026.1	0.061791464	0.001341416	386.4427436	8.137543431	0.466273545	0.017333545	387.9535085	12.07474998	0.018913474	0.000453606	378.7041082	8.999435971	0.055257454	0.001758485	410.2046791	73.41250481	16.28402997	0.35025113	2.125529729	635.6223479	303.1043205	51.81736256	-0.19430153	0.771182257
CR08_UPb_026.2	0.066645378	0.000878734	415.8964542	5.309928841	0.495300812	0.019138091	407.7249216	12.91298826	0.020546288	0.00058309	411.0515678	11.55152361	0.054073728	0.002019431	352.3319734	84.3785563	15.02494617	0.197732195	1.412854951	289.1940343	205.6247228	38.59617646	0.063216254	0.257332462
CR08_UPb_027.1	0.063961961	0.000809695	399.6560036	4.908861316	0.51415573	0.017682809	420.4524583	11.68137844	0.020758305	0.000545476	415.248634	10.79256455	0.05824572	0.001914583	535.7025078	77.44038592	15.63572761	0.189902034	1.667776004	466.6735986	268.8477311	53.22002239	0.132883734	0.269455801
CR08_UPb_031.1	0.067304678	0.001555724	419.8441301	9.401354179	0.511308288	0.020399707	418.8003006	13.7251959	0.020533167	0.000503275	410.8106449	9.975102603	0.055444112	0.001859371	421.4556346	74.47188069	14.92045575	0.354562918	1.475665266	808.0963303	547.0743059	99.21923111	-0.02977534	0.665319321
CR08_UPb_032.1	0.068847671	0.000883346	429.1861664	5.324032061	0.826821285	0.056232289	602.1481788	30.77553131	0.023952004	0.000845323	478.3075139	16.68347554	0.086868899	0.005672339	1263.375749	128.3367578	14.54979348	0.183705508	1.140999672	223.5967458	207.9252246	46.39210334	-0.20260623	0.318559739
CR08_UPb_034.1	0.066191291	0.000769374	413.1550537	4.651365045	0.496303777	0.015955439	408.6212298	10.79732399	0.02065978	0.000497955	413.3083924	9.861914391	0.054368676	0.001716865	375.6071669	73.41275384	15.12401852	0.175622297	1.34483336	289.5627743	215.7664593	41.4362319	0.086142887	0.228408357
CR08_UPb_034.2	0.066800923	0.000811783	416.8360249	4.903797022	0.506927518	0.017104016	416.8945659	12.05659782	0.020481571	0.000499886	409.7780039	9.899606206	0.055028586	0.001848729	408.2061846	75.38699715	14.99026432	0.180941978	1.247396735	287.6443096	237.3441037	44.36081174	0.209715207	0.089242839
CR08_UPb_034.3	0.069290788	0.001150115	431.8241173	6.929252564	0.56434784	0.018173018	453.7068203	11.77322295	0.021434041	0.00050717	428.6373345	10.03521431	0.059082702	0.001761425	558.7330894	64.64823278	14.49297671	0.240526517	1.560322353	504.0748976	313.6680775	62.12044531	0.056337765	0.744666139
CR08_UPb_036.1	0.066545858	0.000864011	415.2946279	5.220281321	0.512306553	0.019796851	419.0847418	13.31401321	0.020552714	0.000601249	411.1727797	11.90684539	0.055932716	0.002095467	425.0788315	87.02774706	15.04772869	0.193583875	1.389473487	259.6594492	186.7156572	34.70728218	0.041953899	0.263288537
CR08_UPb_038.1	0.05950948	0.000918835	372.6301275	5.587276606	0.540500159	0.026193866	437.9226186	17.11203783	0.021277397	0.000764925	425.5223592	15.14603409	0.066033996	0.003113522	789.116228	97.32293673	16.82289164	0.255429609	2.153525805	363.5321178	169.5915151	32.01248439	0.090696919	0.294694806
CR08_UPb_039.1	0.066794649	0.000738029	416.8059526	4.459583911	0.497672277	0.015020265	409.7199617	10.14219629	0.020930155	0.000471352	418.6692954	9.332309918	0.05398842	0.001626748	357.0657287	68.25268217	14.98252532	0.16560155	1.350354844	426.3994604	316.6835081	61.86369708	0.298489025	0.009066853
CR08_UPb_040.1	0.067343605	0.001016644	420.1037314	6.140955513	0.535154091	0.015954247	434.9512124	10.52650193	0.026213584	0.001200359	522.8324811	23.60972136	0.0577596	0.001572344	515.848361	59.63792564	14.8820842	0.227197534	13.20949439	2297.454958	181.4140916	42.06005404	0.11796616	0.636201481
CR08_UPb_043.1	0.061543416	0.001025062	384.9560597	6.224737486	0.652495437	0.034113047	505.9935215	20.75852836	0.022833901	0.000786769	456.2395686	15.53912774	0.076320716	0.003415496	1056.974461	91.36851313	16.32286432	0.274367847	1.46015894	256.7838397	176.6409169	37.93620116	-0.41204202	0.57395792
CR08_UPb_043.2	0.064894383	0.000991714	405.2822711	6.000283054	0.568035495	0.020685124	455.6187627	13.44006821	0.023352168	0.000769112	466.490051	15.16874555	0.063488848	0.002028372	715.5419378	72.40427477	15.46087406	0.234694486	2.243979307	505.5124971	224.3490633	49.33017008	-0.22578072	0.629037662
CR08_UPb_044.1	0.065725774	0.00099738	410.3148722	6.028184686	0.627815976	0.038782009	489.5090965	23.46524292	0.025746609	0.002967739	511.981299	58.11622188	0.069318487	0.00420047	834.877289	124.2696987	15.26161927	0.22794089	2.420575664	358.5315044	160.5630515	37.0984546	-0.03795503	0.25511029
CR08_UPb_046.1	0.065840673	0.000800931	411.0366468	4.845014657	0.488819198	0.020832944	403.0294313	14.08925162	0.020487766	0.000528893	409.9016007	10.47565499	0.053946925	0.002278131	336.5626664	95.76939335	15.20255441	0.186315619	1.333096014	266.01985	199.1231515	37.09472756	0.152474152	0.054381469
CR08_UPb_049.1	0.065394398	0.00077672	408.3336119	4.697900277	0.492767876	0.016362285	406.1298081	11.11644503	0.019987734	0.000489497	399.994702	9.700433302	0.054552163	0.001785463	373.8123391	74.73735911	15.31038198	0.180078741	1.350194044	288.1468145	214.4597517	40.11283021	0.168546631	0.137047585
CR08_UPb_050.1	0.065581683	0.000879504	409.4623484	5.319647069	0.511940575	0.019846817	418.8400308	13.24038121	0.019851273	0.000536896	397.2863914	10.64268059	0.056639167	0.002100516	455.3042672	81.42186178	15.24393496	0.189648206	1.385275063	193.2370849	139.7095779	25.39122754	0.01159267	0.334657727
CR08_UPb_052.1	0.063296375	0.001138156	395.6102284	6.900992644	0.567509581	0.023900349	455.5017288	15.3784232	0.021678075	0.000697397	433.4473567	13.80617754	0.064894852	0.00243554	756.5085609	78.15928673	15.8423318	0.288613088	1.572062536	577.0855323	367.0259526	70.80690381	0.01747603	0.510219532
CR08_UPb_055.1	0.068900122	0.001056617	429.4780387	6.375979267	0.522447527	0.01647542	426.216482	11.00728321	0.021658364	0.000492562	433.0790934	9.743975477	0.054816274	0.001563059	394.8075718	64.06760257	14.56707853	0.230174071	1.582724845	604.7636262	381.3381476	76.6590424	-0.00886728	0.618219424
CR08_UPb_055.2	0.066561188	0.00079724	415.3891037	4.81722636	0.522156595	0.018683789	425.6528292	12.44911548	0.020277719	0.000578692	405.720349	11.46396131	0.056897056	0.002041001	470.7626524	77.81363359	15.04214376	0.179052872	2.156879042	191.4888682	89.27661289	16.79725408	0.253284924	0.035736772
CR08_UPb_055.3	0.066229137	0.000890943	413.3835944	5.385673479	0.512767149	0.023508614	419.2513681	15.68620566	0.020203467	0.000605795	404.2632675	12.00216471	0.056465168	0.002651524	439.5821379	103.7450661	15.11565791	0.202537577	1.975490666	224.5871118	114.9608704	20.81383955	0.294104974	-0.05129103
CR08_UPb_055.4	0.066797409	0.000780068	416.8181031	4.714976833	0.587663851	0.02374426	467.6505736	15.08231763	0.024279329	0.000848779	484.7644963	16.74497386	0.063326455	0.002532915	702.3322153	85.8768601	14.96856335	0.165518914	2.176341012	274.3897858	139.0074607	30.50355591	0.248992476	0.058530089
CR08_UPb_057.1	0.06576545	0.000840787	410.5712322	5.085857962	0.514856955	0.020579314	421.9382025	14.20376881	0.020655775	0.000535424	413.2196461	10.60069727	0.056609457	0.002277936	445.7332278	91.51944688	15.23296109	0.195879073	1.357710629	185.2928143	137.2961309	26.17078213	0.269617129	0.091132222
CR08_UPb_057.2	0.064042734	0.001537415	400.1095382	9.308274952	0.504737328	0.018355472	414.5083433	12.37442535	0.025499216	0.001310581	508.7990405	25.81110847	0.057483747	0.001626421	505.9022574	62.66257231	15.68754664	0.371229298	11.51453864	1183.605212	102.6325596	23.03172257	-0.02626724	0.834705023
CR08_UPb_058.1	0.065493221	0.00084575	408.9334978	5.116142031	0.50091468	0.016847689	411.9096429	11.39497638	0.019917092	0.000498611	398.6008873	9.882531381	0.055727502	0.001863331	428.8744019	74.97591107	15.28489669	0.196931418	1.276986	305.2726332	238.3599529	42.5248495	0.224776077	0.148731869
CR08_UPb_058.2	0.068208431	0.00085322	425.3316848	5.148626546	0.587813274	0.023409777	467.7990534	14.92040686	0.023305797	0.000724671	465.585185	14.30763491	0.062360957	0.002431089	651.8050712	84.23336357	14.68474919	0.183918685	1.746746176	188.2802717	108.3409747	23.65599302	-0.04916742	0.307290909
CR08_UPb_060.1	0.060414681	0.000846116	378.1240927	5.143154446	0.602913353	0.023727745	477.6918372	14.96395219	0.015253107	0.000479455	305.9445959	9.545726578	0.072600438	0.002968751	981.5509559	87.13613785	16.58849605	0.233116651	0.953873399	257.643993	273.8074387	38.45568786	0.359860466	-0.08442969
CR08_UPb_062.1	0.063546612	0.001239703	397.1400133	7.508441048	0.489799764	0.026915628	404.0509429	18.27112748	0.019958798	0.00080695	399.4128162	15.98897501	0.056416172	0.002995488	448.9664724	117.6666174	15.76099252	0.300598318	1.752741948	367.3748369	211.777188	36.79897397	0.104477157	0.263162189
CR08_UPb_064.1	0.067266518	0.000787321	419.6518477	4.754920387	0.52064827	0.019613594	424.4123921	13.04515976	0.02066872	0.000562081	413.4693375	11.12789587	0.055997461	0.002039459	422.7879622	82.34476012	14.88292244	0.173989578	1.499853909	208.7481922	142.2589426	27.15963601	0.025620256	0.282179641
CR08_UPb_066.1	0.062334815	0.00095536	389.7720493	5.790422938	0.504910858	0.017472143	414.2431708	11.77688852	0.016830408	0.000618137	337.2890331	12.2829656	0.059029221	0.001926094	550.532594	71.07787156	16.09446707	0.239176613	1.2498696	341.6846583	274.7447713	42.55453361	-0.10390472	0.548144224
CR08_UPb_066.2	0.069251159	0.00109822	432.4339638	6.91139514	0.568657651	0.020552124	457.5551171	12.70243284	0.02016918	0.000589619	403.5653667	11.68793588	0.059508886	0.002049214	571.4319222	74.42817319	14.47033328	0.233373951	2.471513651	449.1033509	149.6895165	27.55003008	0.104124266	0.390947804
CR08_UPb_067.1	0.053458932	0.000995217	335.6717834	6.08302148	0.848387738	0.047381369	621.022272	27.34203458	0.009469192	0.000651978	190.4008298	13.03900701	0.114744988	0.005445922	1828.381101	89.91152854	18.81692682	0.337822279	0.609583098	412.6027479	693.6717947	61.12219364	-0.66414593	0.832673951
CR08_UPb_067.2	0.047969293	0.001851309	301.8174911	11.40223012	0.6079722	0.031181334	484.2604773	20.97085656	0.005832562	0.000625825	117.4573032	12.55023083	0.096595116	0.006949693	1433.217924	135.3543202	21.12277238	0.866895085	0.720249475	121.2293196	194.2099871	8.527816123	0.697722856	0.006778359
CR08_UPb_068.1	0.066181338	0.001403544	413.0481106	8.489449832	0.591498421	0.034406648	469.2732578	21.49340533	0.023595602	0.001096469	471.2539255	21.61732403	0.065064389	0.003399844	737.8603918	103.3642673	15.18498904	0.329713703	2.929576048	670.8588396	222.6597354	45.47029818	-0.2061115	0.50721715
CR08_UPb_069.1	0.072183189	0.001792111	449.2226824	10.74795979	0.738893149	0.057863555	557.1205095	32.93771978	0.030196821	0.002588309	600.7424235	50.61298881	0.076057975	0.005720252	1034.707663	148.5243689	13.91893925	0.32698962	3.477160532	110.2849633	31.52461979	9.24079535	-0.37576365	0.801867232
CR08_UPb_070.1	0.060744123	0.000888032	380.1185014	5.397090091	0.508451834	0.019128854	416.3115652	12.8253769	0.018337162	0.000488642	367.2547456	9.702588732	0.060789748	0.002176571	606.5544544	77.27259699	16.51094132	0.243398887	1.430787515	362.1151879	251.2288954	43.16917759	-0.01538093	0.372871394
CR08_UPb_070.2	0.073864154	0.001694508	459.2882042	10.14858599	0.714609504	0.03112365	545.6722174	18.38669634	0.022924833	0.000700155	458.0884865	13.83789169	0.070625134	0.002559855	929.3105683	76.50766175	13.62875128	0.300586338	1.227071568	269.1403989	221.8710544	45.7410992	-0.22513498	0.751674719
CR08_UPb_072.1	0.059391622	0.001635275	371.7608012	9.946461462	0.632996541	0.022923873	498.627231	14.84563377	0.019086783	0.000912789	381.9899902	18.1052335	0.078644019	0.002995013	1138.041209	69.83741619	17.03603064	0.4573424	1.963636937	470.8377623	236.7968674	42.60330518	0.516290052	0.386077383
CR08_UPb_072.2	0.066043288	0.000893223	412.2450775	5.404674734	0.771636466	0.029295929	578.7389621	16.55646975	0.028484441	0.000825339	567.6046506	16.21796752	0.084810403	0.003129988	1287.262554	69.54402075	15.1772903	0.210431586	1.581736662	181.8445415	114.3270443	30.5977493	0.032298691	0.310770235
CR08_UPb_073.1	0.219480084	0.033016754	1226.590491	160.4755473	19.07228898	2.650186723	2887.9512	120.351156	0.040389425	0.011595119	771.1767918	213.8737169	0.663983099	0.023518627	4628.337453	48.75704973	6.709703546	0.739915633	0.073404095	21.03630047	469.1559674	61.26194055	0.295693468	0.641760264
CR08_UPb_075.1	0.06725814	0.000944522	419.6006668	5.707127157	0.511684828	0.022090734	418.7806039	14.83464583	0.02017996	0.000617325	406.1159296	13.59919538	0.055677479	0.002333823	437.8519309	104.1557896	14.8857097	0.212121822	1.398520721	321.2807243	232.3090908	41.77668978	0.147244058	0.12176279
CR08_UPb_078.1	0.067400171	0.000905149	420.4456468	5.467228724	0.50726761	0.020614755	415.1701792	13.81520199	0.020915741	0.000569891	418.3597272	11.28611376	0.054815511	0.002193454	373.0917605	95.89554779	14.84917853	0.208532354	1.574259781	157.7110503	99.97572263	19.38371045	0.087625186	0.214156168
CR08_UPb_079.1	0.068486004	0.001041662	426.9823711	6.278298421	0.619453654	0.03268193	485.7569517	19.69534729	0.023636689	0.00090095	472.0547585	17.76038704	0.065848817	0.003087224	749.2819473	93.29360419	14.65062206	0.217668235	1.813875002	313.7132395	172.4030513	37.67023657	-0.59853927	0.760949643
CR08_UPb_085.1	0.063090481	0.001052009	394.3414249	6.385947773	0.727961201	0.036131227	551.3890451	20.9217672	0.02873726	0.001145577	572.4308548	22.46552749	0.084220256	0.004231583	1238.572932	98.02732427	15.88557407	0.262101962	1.932073702	245.6832808	129.2752823	32.45474142	0.239790871	0.027226533
CR08_UPb_088.1	0.065656676	0.000846737	409.9196138	5.123206151	0.501140682	0.017856582	411.8388176	12.10575662	0.02055562	0.000531981	411.2446613	10.53578841	0.055860649	0.001973887	438.2317038	84.24163755	15.25042723	0.198918112	1.276016196	347.7677239	275.4859449	50.71829501	0.139059762	0.231915561
CR08_UPb_090.1	0.068476903	0.000822873	426.9570913	4.963052933	0.518434782	0.017994587	424.7094786	11.53762404	0.021443114	0.00054783	428.8079118	10.84072146	0.055086996	0.001953809	400.9627125	78.8371239	14.62085595	0.17459966	1.702663447	253.0152836	147.2746781	28.88188402	0.336337489	-0.03662079
CR08_UPb_091.1	0.064750948	0.000946139	404.4371553	5.729412435	0.567447992	0.031906774	458.8110506	21.99037465	0.021454411	0.00077571	429.0095289	15.3450189	0.064190853	0.003780216	726.2648586	123.7392442	15.46576485	0.228134132	1.723396956	351.035274	205.5297023	39.39671986	0.410386312	-0.25489076
CR08_UPb_092.1	0.066823671	0.00100114	416.9752256	6.048955621	0.514535414	0.022288064	420.8080127	14.9507494	0.02098734	0.000653847	419.78892	12.94447527	0.056340472	0.002322686	448.5713983	93.46202126	14.9832227	0.224420073	1.307607851	280.2814113	214.0527342	39.17679315	-0.02382559	0.357579375

CR08_UPb_096.1	0.065672856	0.000783057	410.0207792	4.738651062	0.49931743	0.019243606	410.2639547	13.07304006	0.02008619	0.000515249	401.9443765	10.20912802	0.055350334	0.002091681	398.11017	88.22695981	15.24258173	0.18448929	1.334387031	274.0221435	205.8548296	37.65303607	0.055467623	0.190285334
CR08_UPb_097.1	0.072349383	0.000928177	450.2688103	5.581276274	0.730346008	0.028525066	554.8112682	16.62839746	0.027839852	0.000854602	554.9224262	16.79937511	0.073320743	0.002888337	1003.296362	74.80016865	13.82805411	0.18673089	1.647026962	193.0907248	118.4839349	29.50756154	0.301617954	-0.00056642
CR08_UPb_097.2	0.06875155	0.000809137	428.6139294	4.877565626	0.601187782	0.024995726	476.0233417	15.63496488	0.023283041	0.00065254	465.1588291	12.88622696	0.063747902	0.002663099	691.7461609	87.53973969	14.56214413	0.168844783	1.430442174	345.3651193	242.1385524	53.02758561	-0.12892625	0.336161976
CR08_UPb_098.1	0.060688388	0.001146976	379.7426078	6.962513908	0.538382806	0.021593778	435.8779159	14.08059445	0.019428743	0.000693252	388.855989	13.71860461	0.064492193	0.002372101	740.398193	79.07070052	16.5812117	0.304723532	1.444933169	492.1862808	341.8420695	59.7185121	-0.01938021	0.491199001
CR08_UPb_099.1	0.062683952	0.000966486	391.8882931	5.863467545	0.640888738	0.029082529	500.1820808	18.04982752	0.023019022	0.000746641	459.9143884	14.73087298	0.074385851	0.003431233	1001.810139	94.86585631	16.00925982	0.249059267	1.573809917	333.772008	213.4774219	45.58256259	0.231300559	0.096789644
CR08_UPb_099.2	0.063778825	0.001343971	398.5278798	8.136975181	0.592815912	0.026119081	471.8076661	16.52828052	0.035831419	0.003883525	710.3018669	75.33834908	0.067921061	0.00273355	852.3064738	82.14688888	15.72925641	0.323954067	6.475225874	1552.365755	260.8774946	75.66618273	0.070291813	0.446306821
CR08_UPb_101.1	0.067218559	0.000920389	419.364228	5.555291153	0.509776847	0.021926261	417.5821486	14.74590336	0.02119126	0.000651723	423.8242911	12.90297312	0.055431229	0.002457869	406.9444784	100.2717214	14.89088058	0.199517921	1.435404669	310.1966598	218.0424379	40.46053855	0.341841268	-0.08654705
CR08_UPb_102.1	0.065313945	0.001185288	407.8464836	7.179054257	0.504535653	0.034785147	413.5182033	23.59462486	0.020549214	0.000756491	411.1152592	14.9845091	0.05655854	0.003841888	437.9287865	161.9521059	15.24707716	0.216567411	1.85568235	292.617063	157.4987682	28.38307835	0.129811295	0.137761154
CR08_UPb_103.1	0.066458531	0.000815369	414.7654296	4.929877472	0.506051658	0.017576074	414.934298	11.88734974	0.020684216	0.000515868	413.7876752	10.21606982	0.05507383	0.001890498	398.8536002	79.35700939	15.06961349	0.187008415	1.298675303	246.9613018	189.2880457	36.92937809	0.257829262	0.077779247
CR08_UPb_105.1	0.066465167	0.001016686	414.812523	6.147647712	0.513254362	0.023761895	420.0499297	16.0157706	0.020073296	0.000758456	401.6818411	15.03711912	0.056442508	0.0025286	453.9194732	103.3968447	15.05964078	0.233387226	1.348985389	327.5771589	241.6174464	42.56754923	0.035708651	0.258878049
CR08																								
CR08_UPb_003.1	0.062147723	0.00170437	388.6081661	10.33952713	0.469781819	0.021121339	390.3852557	14.50331948	0.019832109	0.000587345	396.9121854	11.64184988	0.05489431	0.001920849	398.01778	77.69393615	16.07666776	0.497348204	2.125305969	589.2416873	282.372261	49.69867493	0.079443497	0.732109715
CR08_UPb_003.2	0.074507956	0.003881343	462.6442084	23.10536791	1.421219579	0.318502468	790.9534341	113.6693485	0.127128295	0.036255734	2274.749289	605.0120757	0.124623439	0.021082861	1611.321403	276.0740333	13.88566042	0.613821103	7.58574095	1043.158294	137.2518208	136.4015831	-0.9090501	0.959931004
CR08_UPb_004.1	0.054323768	0.00106395	340.9520246	6.498681526	0.525314858	0.018248496	427.8262869	12.14138769	0.024142162	0.000622036	482.1359737	12.28359423	0.069913498	0.00217227	918.0314693	66.94919531	18.53611577	0.355752938	2.984087531	604.8598164	218.6650791	48.76626286	0.18503345	0.575161958
CR08_UPb_004.2	0.066069963	0.000886728	412.4216169	5.361666664	0.520649847	0.024139842	424.4904595	16.07662856	0.019929289	0.000621388	398.8281927	12.32188729	0.057636606	0.002644891	486.5418407	103.6308412	15.15165414	0.203432173	1.532575302	260.9220766	170.2884693	30.53357458	0.11957108	0.106140765
CR08_UPb_006.1	0.066074468	0.00080419	412.4520118	4.861830853	0.497355932	0.017866436	411.2297319	13.02486004	0.020499523	0.000517466	410.1384626	10.25047268	0.054993008	0.00202277	405.6715929	87.39952972	15.14669927	0.183550121	1.266475005	355.5571471	280.6534439	51.69306479	0.34847333	-0.11309916
CR08_UPb_007.1	0.065526112	0.001081698	409.1299078	6.551258439	0.501884153	0.022155886	412.443915	15.0250048	0.020609805	0.00059248	412.3236228	11.7320529	0.056897808	0.003039747	463.4532989	114.0475682	15.28124716	0.262747493	1.353809641	340.0644739	252.6661998	45.61821197	0.648513564	-0.0670295
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CR08_UPb_009.1	0.064660423	0.00112048	403.8841025	6.782220381	0.49391474	0.020693076	407.0200819	14.04707984	0.019972639	0.000526878	399.7035418	10.44372646	0.055918257	0.002152372	435.842335	86.5585815	15.49356671	0.266941826	1.476604858	521.9766296	350.2909688	61.86813722	-0.02450561	0.458297915
CR08_UPb_011.1	0.066012308	0.000772886	412.0722869	4.674052049	0.503844545	0.01626845	414.7951399	10.47405819	0.020553147	0.000489536	411.1981448	9.695658561	0.055436039	0.001770207	419.6470709	67.85914574	15.15044607	0.185154647	1.826630661	425.1667807	232.0495117	44.7017383	0.168681735	0.156947228
CR08_UPb_011.2	0.057796625	0.001447337	362.0903489	8.828085594	0.510970386	0.018930011	418.071535	12.6398915	0.017125435	0.001263114	342.8747757	25.0816319	0.064532834	0.002157341	739.9984338	72.02861004	17.53560992	0.469663517	2.366607402	735.1024139	399.2571707	52.83361954	0.333420635	0.539638569
CR08_UPb_013.1	0.069484833	0.000833012	433.0334472	5.020618428	0.628589678	0.0198958	495.6730535	12.96499625	0.024516561	0.000589713	489.5340674	11.63150058	0.066145626	0.002129324	809.0580071	62.83315679	14.41042885	0.172829462	1.690212932	299.214312	177.3112253	40.84414856	0.285811793	0.11010414
CR08_UPb_014.1	0.061158244	0.001764987	382.4718223	10.68913916	0.500772678	0.019432825	412.7782321	13.61914506	0.01880303	0.000744552	376.4250197	14.77484872	0.060014717	0.001682555	595.862589	60.20984461	16.62844647	0.444808042	3.020455813	925.7508942	304.7885534	53.49853127	0.302398827	0.916430606
CR08_UPb_019.1	0.05726873	0.000796812	358.970321	4.856414018	0.517395759	0.022578046	421.5478775	15.18041316	0.017613139	0.000459579	352.8825248	9.127015306	0.066015727	0.003073633	750.0270607	101.4942804	17.50459329	0.241810121	1.258592975	283.8612148	231.6078477	37.90337188	0.362377808	-0.02931743
CR08_UPb_020.1	0.066951314	0.000863274	417.7468219	5.217003793	0.553892193	0.024450559	446.193943	15.70941695	0.02186974	0.000595748	437.2477382	11.77883796	0.060251578	0.002622267	597.0735972	96.89448109	14.95436819	0.194819952	1.47128571	299.7075808	204.3126016	40.55267948	0.04063681	0.222868418
CR08_UPb_024.1	0.065718785	0.000961829	410.295101	5.818390602	0.50821165	0.023692892	416.3089527	15.84068461	0.020154412	0.00061324	403.2937134	12.14726679	0.056605845	0.002642315	450.0187027	102.2122349	15.23612572	0.223995296	1.657023926	228.9361167	138.1701748	24.41765634	0.167463543	0.124724268
CR08_UPb_026.1	0.064023847	0.001771669	399.989221	10.74222841	0.494003435	0.018948365	407.2653883	12.87034921	0.019173786	0.000514421	383.8679815	10.20520648	0.056423899	0.001755396	463.4509794	69.72447662	15.70418458	0.451775118	2.025543918	778.126091	383.8814072	64.62722963	0.251528688	0.749293077
	0.058413588	0.001291816	365.9219325	7.835593513	0.436152538	0.019820043	366.6864434	13.99922021	0.018501781	0.000668817	370.5076779	13.27474412	0.054094105	0.002732574	358.4318381	107.8430497	17.19522598	0.341768871	2.937820704	269.6352914	103.2547791	18.84117112	0.335947241	0.217314183
CR08_UPb_026.2	0.066424166	0.0008671	414.5611826	5.241154039	0.490699733	0.019098926	404.6373156	12.90222201	0.020516057	0.000593849	410.4524848	11.76488455	0.053788985	0.002049991	340.4114261	85.79300378	15.07299068	0.196840591	1.398790421	287.2840157	205.6474424	38.37801902	0.111810153	0.192987513
CR08_UPb_027.1	0.063961961	0.000809695	399.6560036	4.908861316	0.51415573	0.017682809	420.4524583	11.68137844	0.020758305	0.000545476	415.248634	10.79256455	0.05824572	0.001914583	535.7025078	77.44038592	15.63572761	0.189902034	1.667776004	466.6735986	268.8477311	53.22002239	0.132883734	0.269455801
CR08_UPb_031.1	0.067602579	0.001565972	421.6453278	9.462563655	0.515204916	0.020377421	421.4518493	13.68946729	0.020506426	0.000510079	410.2807684	10.11005441	0.055649254	0.001889388	429.6941655	75.65077688	14.85205285	0.356329944	1.46734576	803.4647576	547.0348012	98.88344466	0.035121154	0.629539653
CR08_UPb_032.1	0.068932584	0.000883313	429.6976155	5.323583456	0.822100632	0.055256092	599.5643685	30.2715516	0.023846071	0.000842173	476.2136533	16.62323434	0.086032359	0.005603171	1241.726379	127.6056021	14.53253535	0.183418459	1.150023588	220.0434989	203.8505071	45.46750288	-0.09309504	0.22593217
CR08_UPb_034.1	0.066191291	0.000769374	413.1550537	4.651365045	0.496303777	0.015955439	408.6212298	10.79732399	0.02065978	0.000497955	413.3083924	9.861914391	0.054368676	0.001716865	375.6071669	73.41275384	15.12401852	0.175622297	1.34483336	289.5627743	215.7664593	41.4362319	0.086142887	0.228408357
CR08_UPb_034.2	0.066800923	0.000811783	416.8360249	4.903797022	0.506927518	0.017104016	416.8945659	12.05659782	0.020481571	0.000499886	409.7780039	9.899606206	0.055028586	0.001848729	408.2061846	75.38699715	14.99026432	0.180941978	1.247396735	287.6443096	237.3441037	44.36081174	0.209715207	0.089242839
CR08_UPb_034.3	0.069294515	0.001126117	431.8483692	6.784684201	0.565788509	0.018077072	454.6429647	11.70937487	0.021431202	0.000503276	428.5815668	9.958144979	0.059206417	0.00175547	563.2710007	64.37241967	14.49029981	0.235534406	1.565199152	495.6125027	308.1715791	61.12980725	0.052811718	0.737700702
CR08_UPb_036.1	0.066318373	0.000849261	413.9215518	5.13253373	0.510054775	0.019517224	417.6529807	13.18656872	0.020476915	0.0005653	409.6799174	11.19498399	0.055906275	0.002086011	425.5942567	86.87815408	15.09706213	0.191833073	1.379136427	265.0097665	191.9592165	35.44253932	0.046166777	0.249176349
CR08_UPb_038.1	0.059437436	0.000989764	372.1911089	6.018490725	0.547095705	0.027780651	442.2908295	18.05700564	0.021526607	0.00080432	430.4551092	15.92521745	0.06689608	0.003254629	818.0514392	98.89685183	16.76533264	0.33160937	2.154760357	381.2687198	177.9423773	33.81635041	0.060265671	0.353027186
CR08_UPb_039.1	0.067041887	0.00076445	418.3011117	4.617609275	0.499435923	0.016355578	410.8930797	11.04847566	0.021114159	0.00049037	422.3124171	9.708643118	0.054162994	0.001770397	364.0006518	74.69650396	14.92560564	0.169580953	1.338174385	445.3820248	333.6161783	63.57216246	0.277908583	0.015636647
CR08_UPb_040.1	0.067347346	0.001007403	420.1267478	6.085148595	0.5356531	0.015920225	435.2819162	10.50465007	0.026213584	0.001193046	522.8324811	23.46588491	0.057802647	0.001570531	517.488842	59.57320162	14.88076443	0.22514807	13.29076712	2291.616784	180.2245411	42.0506917	0.115294822	0.633191962
CR08_UPb_043.1	0.061529278	0.001018399	384.8706393	6.184239834	0.651634115	0.033876251	505.4913003	20.61164238	0.022817437	0.000782085	455.9149106	15.44654484	0.076232181	0.00339422	1054.931243	90.75505036	16.32593481	0.272530637	1.460289816	256.0188637	176.0977784	37.82769068	-0.4127449	0.574603369
CR08_UPb_043.2	0.064813477	0.000977443	404.7930683	5.913902997	0.568314677	0.020392531	455.8252667	13.24908455	0.023291347	0.000760097	465.2890315	14.99198076	0.063580237	0.002013065	718.5143355	71.6663574	15.47940113	0.231239081	2.24103798	499.312923	221.8258716	48.78582492	-0.21117796	0.619449339
CR08_UPb_044.1	0.065142387	0.001065002	406.7963881	6.442168076	0.552811387	0.036990527	443.9023839	22.85452479	0.015978163	0.000761364	320.3424677	15.1094908	0.061612011	0.003737183	608.0050346	121.7916436	15.34098559	0.268977255	1.173674975	208.3805158	178.3671178	26.61686097	-0.4339954	0.593838951
CR08_UPb_046.1	0.065982248	0.00081681	411.8909782	4.939478698	0.493736183	0.020940005	406.3121323	14.12883715	0.020583846	0.00053091	411.8033985	10.5144686	0.054319699	0.002236104	352.4114208	93.89581734	15.17211855	0.188151791	1.335923663	267.5516841	198.5113747	37.33596558	0.055159169	0.18162016
CR08_UPb_049.1	0.065394398	0.00077672	408.3336119	4.697900277	0.492767876	0.016362285	406.1298081	11.11644503	0.019987734	0.000489497	399.994702	9.700433302	0.054552163	0.001785463	373.8123391	74.73735911	15.31038198	0.180078741	1.350194044	288.1468145	214.4597517	40.11283021	0.168546631	0.137047585
CR08_UPb_050.1	0.065287645	0.000914079	407.6844075	5.529799381	0.506887498	0.02019599	415.556325	13.58879355	0.019751204	0.000531951	395.307773	10.55011404	0.056454094	0.002199653	448.8649591	86.59161368	15.3056782	0.194762047	1.384406946	202.5669357	146.5263523	26.24550598	0.104522865	0.252340856
CR08_UPb_052.1	0.062946942	0.001247169	393.489344	7.562563024	0.550251039	0.022577856	444.4989469	14.67553982	0.021184951	0.000672511	423.6973552	13.32422106	0.063297075	0.002303266	707.0589313	76.61166527	15.93327642	0.317309809	1.54287435	599.9647147	386.3956303	72.88027648	0.120278724	0.560849994
CR08_UPb_055.1	0.068900122	0.001056617	429.4780387	6.375979267	0.522447527	0.01647542	426.216482	11.00728321	0.021658364	0.000492562	433.0790934	9.743975477	0.054816274	0.001563059	394.8075718	64.06760257	14.56707853	0.230174071	1.582724845	604.7636262	381.3381476	76.6590424	-0.00886728	0.618219424
CR08_UPb_055.2	0.066561188	0.00079724	415.3891037	4.81722636	0.522156595	0.018683789	425.6528292	12.44911548	0.020277719	0.000578692	405.720349	11.46396131	0.056897056	0.002041001	470.7626524	77.81363359	15.04214376	0.179052872	2.156879042	191.4888682	89.27661289	16.79725408	0.253284924	0.035736772
CR08_UPb_055.3	0.066229137	0.000890943	413.3835944	5.385673479	0.512767149	0.023508614	419.2513681	15.68620566	0.020203467	0.000605795	404.2632675	12.00216471	0.056465168	0.002651524	439.5821379	103.7450661	15.11565791	0.202537577	1.975490666	224.5871118	114.9608704	20.81383955	0.294104974	-0.05129103
CR08_UPb_055.4	0.066835032	0.000781371	417.0451988	4.722672397	0.58764933	0.023595006	467.6585237	14.98750702	0.024261604	0.000843692	484.4155547	16.64450621	0.063288446	0.002517251	701.1650611	85.33484126	14.96051623	0.16580006	2.175538486	273.7295265	138.6089764	30.43145753	0.251722893	0.057969734
CR08_UPb_057.1	0.065973355	0.00084762	411.8321393	5.126173774	0.51648508	0.023223065	421.1516676	15.32084431	0.02066109	0.000561	413.3241781	11.10642729	0.056943086	0.00262291	441.9476734	100.5411123	15.1804764	0.196172412	1.348622654	196.101093	146.018018	27.39225873	0.317817406	-0.0965676
CR08_UPb_057.2	0.063636294	0.001456204	397.6432756	8.821007657	0.505313318	0.017884285	414.8627254	12.03590785	0.024961364	0.001296237	498.170348	25.54478167	0.057646262	0.001613005	511.7939574	61.48850786	15.79360974	0.358139737	11.20932579	1169.900181	104.5602473	22.9813982	0.069115358	0.772344045
CR08_UPb_058.1	0.06708875	0.000969309	418.5583677	5.849641594	0.513746826	0.016881443	420.3436135	11.30230566	0.020218052	0.000490998	404.559995	9.725852519	0.055819033	0.00174877	444.9909821	69.04881172	14.94446841	0.210216538	1.356220685	253.4748221	191.3898189	35.25923141	-0.03961425	0.507364969
CR08_UPb_058.2	0.068208431	0.00085322	425.3316848	5.148626546	0.587813274	0.023409777	467.7990534	14.92040686	0.023305797	0.000724671	465.585185	14.30763491	0.062360957	0.002431089	651.8050712	84.23336357	14.68474919	0.183918685	1.746746176	188.2802717	108.3409747	23.65599302	-0.04916742	0.307290909
CR08_UPb_060.1	0.059956129	0.000850419	375.3311521	5.173494552	0.62402619	0.026612455	490.2427521	16.24602472	0.014625959	0.00056452	293.427456	11.25607015	0.074362284	0.003067316	1063.998893	100.0299149	16.72425504	0.24188027	0.896316021	249.3273554	288.970312	37.64756531	0.609433687	-0.33938074
CR08_UPb_062.1	0.063283436	0.001158319	395.5483314	7.018644829	0.488454316	0.027762455	403.1100657	18.83865601	0.019801043	0.000765349	396.2907609	15.16933722	0.056496565	0.003102907	451.3366518	121.9831146	15.82183676	0.284802208	1.735157884	371.1026807	215.3563622	37.22314321	0.086534707	0.240398445
CR08_UPb_064.1	0.067266518	0.000788664	419.6518477	4.763035144	0.519447439	0.019559167	423.6281153	13.01524549	0.020632816	0.000559368	412.759219	11.07460451	0.056001425	0.00205127	422.6552959	82.82198409	14.88292244	0.174286509	1.498107965	208.7094318	142.4158901	27.11105765	0.02640584	0.234037606
CR08_UPb_066.1	0.062334815	0.00095536	389.7720493	5.790422938	0.504910858	0.017472143	414.2431708	11.77688852	0.016830408	0.000618137	337.2890331	12.2829656	0.059029221	0.001926094	550.532594	71.07787156	16.09446707	0.239176613	1.2498696	341.6846583	274.7447713	42.55453361	-0.10390472	0.548144224
CR08_UPb_066.2	0.069412064	0.001138128	432.554723	6.851901605	0.569421163	0.020620959	458.0709165	12.73347109	0.020173925	0.000592753	403.6589667	11.750089	0.059579675	0.002056267	574.1302864	74.65652132	14.46664842	0.231405736	2.482081018	452.375207	150.2675762	27.63566914	0.108547458	0.388874539
CR08_UPb_067.1	0.053483053	0.001001899	335.8190158	6.123893806	0.851050906	0.04751102	622.5506098	27.41548423	0.009502482	0.000654963	191.0674783	13.09849782	0.115069903	0.005452828	1834.079944	89.91213388	18.80927657	0.340158967	0.608523212	413.9482574	696.7575766	61.49000111	-0.66413375	0.83331439
CR08_UPb_067.2	0.047969293	0.001842328	301.8174911	11.34691551	0.61751152	0.033680806	484.2604773	20.50640237	0.005832562	0.000622708	117.4573032	12.487721	0.096593722	0.006885801	1434.482702	134.1368599	21.01574681	0.88551805	0.732395335	120.4757233	192.4520819	8.544063131	0.681590624	0.134463078
CR08_UPb_068.1	0.065890191	0.001379609	411.2920323	8.347705433	0.590861605	0.035455158	468.7747762	22.14303485	0.023394269	0.001081539	467.2861655	21.32523708	0.065268839	0.003491648	743.4507082	106.2463629	15.24716588	0.327657794	2.864145533	680.4016182	227.6833947	46.27117046	-0.24622669	0.526307073
CR08_UPb_069.1	0.072533157	0.001885554	451.3154211	11.30323187	0.759583073	0.069562918	567.2103336	37.63920157	0.03061392	0.002658614	608.8764635	51.97348127	0.077420817	0.006212855	1061.675208	154.1812501	13.86077855	0.339457031	3.4693243	108.6712832	31.07262242	9.160347422	-0.40803718	0.796595356
CR08_UPb_070.1	0.060767948	0.000892295	380.2631242	5.423033193	0.508245965	0.019236347	416.1623423	12.89655997	0.018352585	0.000490069	367.5608495	9.730971097	0.060746656	0.002186747	604.838062	77.60494286	16.50474435	0.244628616	1.431644035	364.3146811	252.6832328	43.41610244	-0.01905137	0.375988746
CR08_UPb_070.2	0.073524286	0.001660504	457.2571624	9.951142576	0.708169475	0.031115709	541.9151691	18.40752369	0.023085269	0.000690809	461.2626876	13.65017037	0.070334427	0.002545308	921.5708577	76.8949522	13.68491317	0.299518422	1.220621882	272.0019262	224.711753	46.84525063	-0.2713181	0.777021832
CR08_UPb_072.1	0.059391622	0.001635275	371.7608012	9.946461462	0.632996541	0.022923873	498.627231	14.84563377	0.019086783	0.000912789	381.9899902	18.1052335	0.078644019	0.002995013	1138.041209	69.83741619	17.03603064	0.4573424	1.963636937	470.8377623	236.7968674	42.60330518	0.516290052	0.386077383
CR08_UPb_072.2	0.066043288	0.000893223	412.2450775	5.404674734	0.771636466	0.029295929	578.7389621	16.55646975	0.028484441	0.000825339	567.6046506	16.21796752	0.084810403	0.003129988	1287.262554	69.54402075	15.1772903	0.210431586	1.581736662	181.8445415	114.3270443	30.5977493	0.032298691	0.310770235
CR08_UPb_073.1	0.219599535	0.032692083	1227.738991	158.909793	19.03421727	2.625703111	2887.37861	119.1996384	0.040074249	0.011496799	765.2503067	212.0725196	0.662096118	0.023662792	4623.556151	49.59864439	6.686263542	0.734161307	0.072978935	20.85579561	465.3882136	60.73860155	0.301748812	0.641570256
CR08_UPb_075.1	0.066873074	0.000814472	417.2748181	4.9225832	0.514191616	0.018517254	422.1916457	11.62302837	0.019712787	0.000531424	394.5395485	10.53550926	0.056341422	0.001916658	457.5918789	81.27905666	14.97104217	0.184356625	1.541601438	300.2717273	199.9170471	36.29938637	0.167485784	0.101873403
CR08_UPb_078.1	0.067400171	0.000905149	420.4456468	5.467228724	0.50726761	0.020614755	415.1701792	13.81520199	0.020915741	0.000569891	418.3597272	11.28611376	0.054815511	0.002193454	373.0917605	95.89554779	14.84917853	0.208532354	1.574259781	157.7110503	99.97572263	19.38371045	0.087625186	0.214156168
CR08_UPb_079.1	0.068486004	0.001041662	426.9823711	6.278298421	0.619453654	0.03268193	485.7569517	19.69534729	0.023636689	0.00090095	472.0547585	17.76038704	0.065848817	0.003087224	749.2819473	93.29360419	14.65062206	0.217668235	1.813875002	313.7132395	172.4030513	37.67023657	-0.59853927	0.760949643
CR08_UPb_085.1	0.063064023	0.00105786	394.1806495	6.421436458	0.727542468	0.036398194	551.1049416	21.07354409	0.028779418	0.001151644	573.258506	22.58433129	0.084220061	0.004265361	1237.968455	98.80003798	15.89239577	0.263544034	1.932073702	247.4596292	130.3351474	32.72224244	0.240270587	0.025644936
CR08_UPb_088.1	0.065550364	0.000859204	409.2763676	5.198855509	0.4999694	0.018124646	411.0449624	12.29762865	0.020448645	0.000518884	409.1287888	10.28036487	0.055830203	0.002019533	426.339614	81.92221564	15.27532293	0.202143387	1.267415712	354.7879923	282.8193152	51.75255563	0.208877728	0.192077587
CR08_UPb_090.1	0.068516696	0.000813674	427.1973363	4.907488889	0.518743259	0.017801267	424.8398379	11.41948934	0.021416394	0.000547368	428.2778605	10.83175596	0.055058545	0.001924808	399.4091065	77.42216042	14.61217579	0.172538941	1.696447484	246.6657935	143.9113798	28.30451888	0.327531546	-0.02951277
CR08_UPb_091.1	0.066010762	0.001067317	412.0668406	6.459231163	0.516324526	0.031577929	421.8231456	21.05771817	0.019537381	0.00102492	391.0446949	20.33934153	0.05739212	0.003420358	484.1860255	131.9399188	15.16164964	0.252123623	1.876642459	343.6570691	183.1365017	31.33225662	0.028148111	0.21355871
CR08_UPb_092.1	0.06695173	0.001036041	417.7485817	6.259689129	0.513244132	0.023245107	419.913761	15.59028485	0.020927404	0.000676552	418.6015333	13.39421354	0.056103871	0.002390981	439.0240241	96.4744356	14.95503323	0.232094822	1.305542809	281.484585	215.2917632	39.16091566	-0.07598773	0.403286688
CR08_UPb_096.1	0.065449303	0.000750332	408.6686459	4.541085072	0.501901002	0.018086922	412.0282028	12.27712451	0.020136514	0.000487902	402.9437035	9.667101804	0.055717262	0.001981193	413.0318984	82.53891102	15.29429439	0.177345523	1.3615701	290.3367236	212.9029607	40.10757213	0.110290237	0.129812905
CR08_UPb_097.1	0.072323134	0.000930911	450.1109236	5.597704639	0.727145276	0.027916622	553.0605052	16.36272823	0.027819295	0.00085842	554.5175827	16.87427874	0.07268958	0.002762489	996.8261212	75.48885966	13.832918	0.187365643	1.646831485	193.9232036	119.0118847	29.59676603	0.331004405	-0.02369417
CR08_UPb_097.2	0.06875155	0.000809137	428.6139294	4.877565626	0.601187782	0.024995726	476.0233417	15.63496488	0.023283041	0.00065254	465.1588291	12.88622696	0.063747902	0.002663099	691.7461609	87.53973969	14.56214413	0.168844783	1.430442174	345.3651193	242.1385524	53.02758561	-0.12892625	0.336161976
CR08_UPb_098.1	0.060680997	0.001138369	379.6983602	6.910246536	0.537711653	0.021488526	435.4402841	14.01196225	0.019588149	0.000725672	392.0052195	14.35617016	0.064411567	0.002362509	737.7136548	78.75763785	16.5821965	0.302411179	1.448613063	487.6477436	338.6280473	59.17789895	-0.01996704	0.490877391
CR08_UPb_099.1	0.062686205	0.000960337	391.9023614	5.826168859	0.642846146	0.029161609	501.3557944	18.08345956	0.023226438	0.000797036	463.9941805	15.71535176	0.074596585	0.003434087	1007.191407	94.79978746	16.00810893	0.247487714	1.573809917	332.6157077	212.3463527	45.47602101	0.227157622	0.096499194
CR08_UPb_099.2	0.063867242	0.001624671	399.062722	9.837836992	0.562587885	0.02385704	452.745193	15.38965403	0.028646779	0.001159218	570.8194355	22.7642471	0.064491328	0.002360923	750.3502199	77.76703573	15.70896004	0.393533059	5.42712547	1672.099017	312.9592041	78.8432506	0.10208742	0.604493986
CR08_UPb_101.1	0.067062359	0.0009095	418.4223353	5.490068561	0.5102721	0.023373426	417.8562161	15.72004287	0.021087628	0.000661034	421.7741136	13.08878333	0.055636456	0.00261697	413.7614152	106.8047544	14.92367083	0.197734124	1.426866971	313.0743522	221.4135697	40.73723293	0.324677175	-0.1011602

CR08_UPb_102.1	0.065230328	0.00104038	407.3403427	6.300349787	0.499753943	0.027159209	410.5077012	18.45360066	0.02064777	0.000648403	413.0690361	12.84265394	0.056010612	0.002988511	422.8622633	125.574361	15.29433794	0.212678438	1.827986751	320.245825	175.6133977	31.68360397	0.103671835	0.176886803
CR08_UPb_103.1	0.066458531	0.000815369	414.7654296	4.929877472	0.506051658	0.017576074	414.934298	11.88734974	0.020684216	0.000515868	413.7876752	10.21606982	0.05507383	0.001890498	398.8536002	79.35700939	15.06961349	0.187008415	1.298675303	246.9613018	189.2880457	36.92937809	0.257829262	0.077779247
CR08_UPb_105.1	0.066355519	0.000985306	414.150024	5.957722835	0.509865898	0.023034299	417.7778854	15.52135979	0.020153911	0.000734494	403.2796665	14.56154416	0.056141332	0.002436835	442.4387062	99.3736302	15.08411592	0.22594564	1.359990201	331.952619	241.9760571	42.85724992	-0.00762736	0.296321306
G_NIST610																								
NIST610-1	0.242161768	0.002844082	1397.824245	14.71177952	30.02573126	0.761425565	3487.384681	24.83491392	0.523600362	0.011087906	8510.198572	147.187772	0.905478034	0.022413415	4986.767139	89.36835007	4.132803133	0.047108963	0.94045657	242.8851082	257.5249799	1224.121473	0.620546179	0.844513161
NIST610-2	0.228445323	0.003320851	1326.006963	17.31950565	28.57416463	0.751684889	3438.050424	25.25140037	0.493290821	0.010511059	8103.673845	142.2373686	0.907738883	0.022256882			4.390157439	0.060782783	0.931983688	309.5446789	333.0065269	1532.861108	0.250780518	0.994208691
NIST610-3	0.22608318	0.003666249	1313.45448	19.67894238	28.1884006	0.759749462	3424.256266	27.15603701	0.49130452	0.010482939	8076.764878	141.9233614	0.904591154	0.022421934	4993.733376	0	4.41091615	0.048186566	0.934146184	321.1341379	342.9395257	1577.643873	0.42820726	0.996379322
NIST610-4	0.228551912	0.003950156	1326.33451	20.35654752	28.90816845	0.787108644	3448.906006	25.70182937	0.494650139	0.01071788	8121.612288	144.7208919	0.921973904	0.022684222	4935.615482	0	4.395080444	0.065916621	0.930537885	320.2419321	345.4306973	1591.019147	0.159805387	0.997824445
NIST610-5	0.229058917	0.003676112	1329.098921	19.00230057	29.04445668	0.777436714	3453.766121	25.61426539	0.496248665	0.010761939	8143.168089	145.2332887	0.923272564	0.022651631	4927.518506	0	4.382028966	0.062413567	0.929778684	316.3362576	341.5090884	1582.464375	0.248211208	0.99426414
NIST610-6	0.229175688	0.003378577	1329.829775	17.62712953	28.66733167	0.755919523	3441.213228	25.51099632	0.506783456	0.010876616	8285.236767	145.7524133	0.905139552	0.02228919			4.376471469	0.061547231	0.943421746	313.0194221	333.1687425	1573.397416	0.211610702	0.997460418
NIST610-7	0.22657164	0.003225304	1316.203717	16.89435969	28.44887095	0.746728499	3433.78378	25.28566523	0.501036215	0.010708264	8208.098952	143.801347	0.909105006	0.022354838	4961.809677	0	4.425440067	0.061096553	0.937885641	320.4038807	341.9723369	1610.020317	0.162077018	0.995985131
NIST610-8	0.231538041	0.003531466	1342.157542	18.40975237	28.39412892	0.761975721	3433.35811	27.36928119	0.502918996	0.01096718	8232.982376	147.3122516	0.892928681	0.022014698	4945.007189	373.6230927	4.324886315	0.067156743	0.93556256	309.1241873	333.3463028	1559.098446	0.429313301	0.926136917
NIST610-9	0.231151346	0.003285385	1340.222745	17.13328039	28.45872592	0.754788634	3433.978639	25.66324951	0.502642048	0.011033599	8229.103984	148.0435239	0.895917225	0.022016225			4.337515087	0.059310966	0.933354309	307.1104145	330.8655941	1547.145617	0.198053409	0.875573942
NIST610-10	0.230695502	0.00347225	1337.757106	18.13283154	28.75630284	0.772192929	3443.95045	25.86893386	0.499212236	0.010773087	8183.267111	144.7574418	0.905128369	0.02221014			4.349176498	0.063708205	0.935871872	326.9094597	349.1541471	1634.71115	0.149114851	0.89466657
NIST610-11	0.231604975	0.003242022	1342.605362	16.88086339	28.84889573	0.754144695	3447.541108	25.28720005	0.503636844	0.010770415	8243.044786	144.6405281	0.904632297	0.022246666	4976.933112	0	4.328593187	0.057693378	0.935724095	322.8694679	345.5451828	1625.992762	0.382184615	0.936295028
NIST610-12	0.229507516	0.003875225	1331.390603	19.97003182	28.98064737	0.794659701	3451.314362	25.5660132	0.495215124	0.010608742	8129.650298	143.0335632	0.919606334	0.022521626	4999.620408	0	4.388738825	0.055545228	0.934837206	340.3134948	364.394457	1668.409512	0.152816556	0.991834893
NIST610-13	0.229826306	0.003188437	1333.31351	16.65705691	29.20629661	0.768991896	3459.530779	25.53299529	0.497327014	0.010759076	8157.939255	144.9151127	0.923928282	0.022649221	4926.362447	0	4.361465738	0.058559952	0.932222341	339.4515755	364.4184289	1669.739702	0.393087141	0.892713702
NIST610-14	0.228672237	0.003178017	1327.24866	16.57946865	28.91130886	0.767733305	3449.413555	25.3188547	0.498433765	0.010834432	8172.589108	145.5447261	0.919338901	0.022544393	4914.939841	0	4.383848199	0.057803388	0.935322647	335.5237337	359.4471796	1686.165753	0.118893157	0.931937691
NIST610-15	0.227909695	0.003481233	1323.14015	18.13803527	28.87097174	0.769648654	3447.977109	25.63097304	0.497198444	0.010615688	8156.399375	142.9327867	0.92100417	0.022650209	4904.378797	0	4.402365248	0.062622565	0.936947704	339.6687421	363.4049805	1675.298016	0.436515243	0.915955574
NIST610-16	0.229511837	0.003431787	1331.588701	17.9174035	28.67405174	0.763127621	3441.351534	25.58606439	0.493608594	0.010563617	8107.96717	143.0546609	0.905937548	0.02229776			4.370253174	0.062717971	0.937568854	313.7790154	336.3657873	1542.691489	0.253601335	0.89553063
NIST610-17	0.224986521	0.003552028	1307.748073	18.5692183	28.39992845	0.776901231	3431.455341	25.94493497	0.488032614	0.010786083	8031.54693	145.1309326	0.910744994	0.022568586	4969.350036	167.5052815	4.461077134	0.06626021	0.936681058	329.0130827	352.8031483	1617.501775	0.329259638	0.935146264
NIST610-18	0.228845317	0.003592575	1328.018842	18.70099094	28.68246818	0.761930302	3441.635188	25.51606774	0.496699514	0.010709143	8149.441946	144.2260501	0.913595434	0.022362106	4936.862631	0	4.385398566	0.06396253	0.941707659	318.3316312	338.0382235	1564.421434	0.360224703	0.912130476
NIST610-19	0.227086766	0.003294264	1318.897825	17.23736779	28.57463747	0.757579283	3437.990636	25.69352739	0.496958389	0.010503092	8153.462701	141.7444653	0.914691487	0.022498056			4.415768231	0.061620747	0.948407323	316.6520415	334.4636159	1535.926525	0.274870892	0.893133391
NIST610-20	0.223779694	0.003576209	1301.378609	18.66425952	28.0822844	0.745673636	3420.897661	25.34354735	0.489348757	0.010346048	8050.473101	139.9656899	0.91305362	0.022321704	4918.871797	0	4.485491546	0.065655219	0.941127106	325.9566084	348.1162168	1586.741044	0.601181809	0.96250937
NIST610-21	0.222594283	0.00317636	1295.272947	16.66325288	27.99984399	0.753663108	3417.806766	25.68712445	0.485939733	0.010452864	8003.752594	141.8205307	0.911045863	0.022348888			4.496120001	0.064700896	0.942358734	328.2156162	350.0679013	1583.68636	-0.02145991	0.941516489
NIST610-22	0.224179034	0.003253351	1303.595116	17.0429612	28.17361531	0.756631087	3423.896283	25.45359597	0.489622155	0.010379763	8054.105785	140.6247357	0.911752915	0.022444146			4.473536494	0.061775389	0.94170702	326.3519345	347.9890759	1591.023081	0.164875699	0.936683232
Z_91500																								
91500-1	0.179200134	0.002088119	1062.5202	11.41639573	1.85108103	0.065174627	1060.49186	23.08916921	0.053804984	0.001526362	1059.016725	29.2347321	0.074899962	0.002571416	1045.174326	70.03633396	5.586616312	0.065347818	2.667296464	80.04494656	30.0174049	15.02270203	0.159413558	0.237196864
91500-2	0.179066584	0.002229295	1061.755676	12.19292534	1.845979654	0.061860466	1059.330205	21.77171977	0.053584949	0.001493498	1054.816369	28.60433411	0.07479072	0.002511455	1044.810398	66.1572601	5.593422392	0.070222931	2.664795266	80.03924444	30.01964733	14.97404132	0.238828939	0.121919371
91500-3	0.179241413	0.002326571	1062.688483	12.71303738	1.852352938	0.064892904	1061.07903	22.81898642	0.053826343	0.001481715	1059.458451	28.44101182	0.074950351	0.002616319	1046.358117	68.90747752	5.589598093	0.072476252	2.667885729	79.77098482	29.90349115	14.98344903	0.228265791	0.14181897
91500-4	0.179155707	0.002224913	1062.244286	12.16328612	1.847088578	0.063141172	1059.458257	22.35284505	0.053709127	0.001485782	1057.204785	28.50662943	0.075037059	0.002585853	1050.497203	69.53937602	5.590497147	0.069755198	2.668161427	79.89194547	29.9539396	14.96848901	0.230151724	0.22165807
91500-5	0.179184364	0.002141907	1062.41985	11.71643927	1.852391798	0.06106473	1061.739254	21.53271325	0.053772645	0.001492902	1058.414093	28.63033362	0.07498436	0.002457047	1051.136664	65.39047423	5.58822346	0.067578613	2.66513076	80.2199601	30.09101634	15.05239525	0.409944327	0.146366549
91500-6	0.179117175	0.002224598	1062.034174	12.15880855	1.848624639	0.060919423	1062.802933	20.81183737	0.053718297	0.001672422	1057.248387	32.06194634	0.074866771	0.002340429	1050.887632	64.30427951	5.591631643	0.069494425	2.666808834	80.18222595	30.0668558	15.03558478	0.117561047	0.323105203
91500-7	0.179225186	0.002148105	1062.644053	11.73491711	1.850874249	0.06368566	1060.685679	22.79820424	0.053756516	0.001472368	1058.122618	28.25093879	0.074889151	0.002615034	1043.607089	71.45851612	5.586753471	0.066523969	2.666467094	79.6760408	29.88112299	14.94570544	0.331577235	0.062737417
91500-8	0.179143793	0.002300975	1062.15487	12.60816991	1.851474078	0.065276603	1060.574332	22.95025789	0.053661817	0.001646561	1056.173299	31.58423719	0.074952443	0.002582675	1047.061964	66.99754815	5.582582321	0.068141412	2.667344676	80.08080817	30.01865658	14.99479693	0.156904777	0.33168346
91500-9	0.179193234	0.002262155	1062.438887	12.35416143	1.848269181	0.063575622	1059.792468	22.47761662	0.053815562	0.001615317	1059.153543	30.97007148	0.074810693	0.002523676	1044.081975	68.75226695	5.590009712	0.07000471	2.666053818	79.88676899	29.97628993	15.01221495	0.212729708	0.24631833
91500-10	0.17914527	0.002319847	1062.160223	12.6617903	1.849394614	0.060984492	1060.608906	21.96353681	0.05377497	0.001503525	1058.450664	28.83143523	0.074862773	0.00242173	1047.784131	67.93229531	5.592654962	0.071199795	2.666344099	79.88763675	29.95943359	14.98562401	0.146569992	0.251437559
91500-11	0.179191089	0.002320866	1062.409668	12.70223146	1.850320243	0.064191424	1060.377243	22.68030584	0.053696476	0.001493839	1056.95152	28.63512406	0.074902964	0.002638404	1043.42324	70.55194351	5.591702602	0.074370917	2.667006775	80.19996432	30.07156495	15.02152807	0.144428468	0.270020798
91500-12	0.179302624	0.002227709	1063.04525	12.18150979	1.849460498	0.06574192	1059.804384	23.52611482	0.053711251	0.001614493	1057.15917	30.95182591	0.074809628	0.002507306	1044.974177	68.25580441	5.570316955	0.084626952	2.667288079	79.72326895	29.89438207	14.94854859	0.082172715	0.306190144
91500-13	0.179034667	0.002260828	1061.569358	12.35133499	1.850137742	0.062407726	1060.625409	22.47258064	0.053770484	0.001516003	1058.359633	29.05124504	0.074946375	0.002504263	1055.556754	65.56406575	5.59518241	0.070144449	2.666116996	80.38591486	30.15033571	15.06487661	0.172656647	0.22915387
91500-14	0.17915438	0.002312531	1062.214612	12.64676927	1.841295646	0.061698011	1060.257531	21.15657472	0.053722511	0.001508634	1057.446248	28.94215692	0.074772206	0.002338486	1048.27339	64.72012302	5.592267187	0.072780753	2.666819722	79.99401149	29.99434946	14.99669439	0.183886506	0.238906652
91500-15	0.179189882	0.002459061	1062.365456	13.42280774	1.852414315	0.06271065	1061.38777	22.49663055	0.053753484	0.001543746	1058.011472	29.60237277	0.074981338	0.002510778	1056.677458	65.33016331	5.594182294	0.075954727	2.666513937	79.98492027	29.9998459	14.99963371	0.104106951	0.569931082
91500-16	0.179137014	0.002213678	1062.148374	12.1141417	1.851013045	0.065752648	1060.361746	23.88968472	0.053744977	0.001522413	1057.875859	29.18057655	0.074948076	0.002562308	1047.093966	70.95818639	5.590703861	0.070299288	2.667419382	80.0603737	30.01214725	15.00710458	-0.01392776	0.502894308
91500-17	0.179203894	0.002306974	1062.489402	12.61171753	1.848769837	0.062639294	1062.789004	21.29814548	0.053739304	0.001514713	1057.769749	29.0285843	0.074820466	0.002428781	1056.000495	61.53242969	5.590369941	0.072281544	2.666048438	79.92360178	29.98568676	14.99306929	0.20323405	0.250597826
91500-18	0.179112245	0.002386515	1061.961502	13.04751817	1.847787129	0.065000787	1059.232487	23.34659004	0.053704989	0.001494727	1057.115218	28.65158695	0.074838193	0.002677787	1048.343035	71.80150328	5.595274383	0.074931362	2.665737815	80.05922705	30.0317401	15.01155911	0.324448627	0.050734025
91500-19	0.179228686	0.002432642	1062.588884	13.27864051	1.851767475	0.063588822	1061.059765	22.53960845	0.053771746	0.001602193	1058.325663	30.70529823	0.074919785	0.002390298	1057.315252	67.11123246	5.583848462	0.078030702	2.667521745	79.91595096	29.95335085	14.98548679	0.044931255	0.378171108
91500-20	0.179188842	0.002224676	1062.426554	12.15686719	1.847448502	0.064248497	1062.169326	21.57384202	0.05374944	0.001539403	1057.944031	29.57384879	0.074801828	0.002436821	1046.904462	65.70770282	5.589330671	0.069302121	2.666295939	79.83565231	29.94571946	14.97424817	0.084030487	0.262434357
91500-21	0.178911113	0.002216127	1060.912395	12.12450863	1.851851786	0.059765009	1061.836256	21.3819604	0.053676168	0.001578236	1056.511467	30.29066097	0.075040993	0.002348533	1061.332503	65.79421949	5.597797028	0.070087519	2.668234116	80.26622802	30.0773835	15.01841388	0.117160718	0.432044208
91500-22	0.1793805	0.002288659	1063.464476	12.49924167	1.84985367	0.061213486	1060.873529	21.77359615	0.053786473	0.001544074	1058.655233	29.64151399	0.074800005	0.002412366	1053.688846	66.95685931	5.584025091	0.070735498	2.665614506	79.94252693	29.99553632	15.01568038	0.203083058	0.173892717
Z_Plesovice																								
PLE-1	0.053435721	0.000919847	335.5380882	5.622446341	0.394793564	0.014058963	337.2059658	10.13219575	0.017050514	0.000565022	341.6753926	11.22440231	0.053605721	0.001793264	323.9442673	62.64447693	18.80733167	0.314621245	8.513069523	678.7650222	79.64923736	12.57217024	0.11612812	0.215096189
PLE-2	0.054913495	0.000889824	344.5799945	5.429681532	0.407888473	0.014078797	346.7410678	10.08197014	0.017063568	0.000523139	341.9460154	10.38594086	0.053468325	0.001641332	341.6889647	72.67395574	18.25000963	0.296309083	8.310881429	661.0865889	79.18840533	12.58415212	-0.02128281	0.472763348
PLE-3	0.055613271	0.000965304	348.8494359	5.890115327	0.40354622	0.01381472	343.6865293	9.924639683	0.016995635	0.000523831	340.5988357	10.41473344	0.052413418	0.001545206	292.1332327	66.65779247	18.02658966	0.320852712	8.651578261	701.8160472	81.57049801	12.80262364	0.010163722	0.645894313
PLE-4	0.053832602	0.000836295	337.9769454	5.110044185	0.400812852	0.01409286	341.5947914	10.06002598	0.017464208	0.000811609	349.8141905	15.97120881	0.053919919	0.001709332	350.3014173	70.29485617	18.60819648	0.293169007	8.848598113	606.7141582	69.27148396	11.25996274	-0.30653606	0.545757452
PLE-5	0.053203816	0.00085915	334.1260918	5.25537778	0.395333465	0.014000979	337.6264025	9.843678685	0.017103187	0.00063621	342.7010803	12.59799754	0.05385267	0.001692479	348.3841949	69.04893721	18.87556316	0.303188343	8.425296049	607.0901242	71.71586391	11.47694324	-0.39193664	0.66822128
PLE-6	0.054127201	0.000872553	339.7751566	5.334817674	0.395774819	0.013342428	338.0499541	9.683543825	0.017126089	0.000475597	343.2005109	9.445526559	0.052839543	0.001594333	315.4701998	65.52190975	18.51386473	0.313774051	9.112983616	644.1291363	71.05079961	11.35036701	-0.00054457	0.621589739
PLE-7	0.053409196	0.000909772	335.3770798	5.561468655	0.39390115	0.014888986	336.4298143	10.42623614	0.017864183	0.001078595	357.6423077	21.04049798	0.053410687	0.001725168	328.9885268	67.34672303	18.77178797	0.32516775	8.558529758	658.2969173	76.17988063	12.94960684	-0.44583261	0.682024372
PLE-8	0.054035867	0.000908622	339.2131343	5.555437303	0.396487048	0.013188905	338.6112701	9.578352401	0.016589167	0.000473376	332.5274837	9.411424154	0.053146434	0.001609725	327.7037228	73.55953382	18.46774704	0.324907256	9.352218215	604.6870677	65.10300985	10.01177416	0.098562753	0.578562436
PLE-9	0.053984425	0.000916644	338.8950288	5.5967309	0.407505236	0.017740165	342.4359625	8.147474557	0.017649164	0.001551041	353.0701989	30.02847825	0.05452883	0.001914794	358.7198739	52.77762679	18.61242416	0.300622156	8.534864226	628.5327922	73.06877988	12.1689672	-0.47709012	0.68016138
PLE-10	0.054277442	0.001049501	340.668514	6.40576272	0.400787553	0.013251548	341.7173961	9.545794969	0.017483838	0.000553965	350.2893313	10.99871673	0.053164766	0.001570572	323.315099	66.35688517	18.54931507	0.342148223	9.486250823	702.6506635	74.57523231	12.05950992	0.181700563	0.501272776
PLE-11	0.05379175	0.000869232	337.7232452	5.314085234	0.392334509	0.013223442	335.5417366	9.679617876	0.017817985	0.000573114	356.922444	11.37565798	0.052904028	0.001592465	318.2054211	73.98971379	18.66859399	0.299976374	9.010888606	632.1581072	70.63906077	11.63164341	-0.31310573	0.718311512
PLE-12	0.055612922	0.001143238	348.8175727	6.968265184	0.410974895	0.014307213	348.9424787	10.30096181	0.016903193	0.000503699	338.7635563	10.0099057	0.053769082	0.001664635	345.1388695	72.71371857	18.12044482	0.354392161	9.550725146	707.2784947	73.42386243	11.51542422	0.114268457	0.66415393
PLE-13	0.053692587	0.000843236	337.119735	5.157366924	0.397137893	0.013797401	338.9659642	9.944998307	0.016857805	0.000571237	337.8429256	11.33490575	0.053522565	0.001627279	336.5017604	68.68853259	18.6038167	0.28368804	9.225210529	628.3427235	68.24171778	10.70660536	-0.3741797	0.747032893
PLE-14	0.053667364	0.000960542	336.9500315	5.875390303	0.395664524	0.01260977	338.086183	9.171992757	0.017323302	0.000520801	347.1085971	10.34269938	0.053776602	0.001627709	347.8145557	67.25277995	18.6959288	0.322526876	9.357921443	736.2521031	78.43219469	12.63081456	0.030705917	0.520029938
PLE-15	0.053394016	0.000816294	335.2964571	4.991478014	0.387521826	0.012897152	332.0791979	9.387565131	0.017404018	0.000567203	348.7011329	11.261433	0.052716674	0.00170252	297.3609334	74.33208023	18.72627149	0.304207287	9.45376677	645.5036239	68.43588498	10.94100231	0.073068597	0.441416945
PLE-16	0.053266132	0.000858854	334.5082541	5.255968897	0.395403132	0.012481835	337.9202127	9.075400237	0.016628113	0.000506433	333.2932933	10.06787027	0.053727443	0.001582084	347.3886895	67.07615701	18.80918765	0.32351765	9.353677594	713.5210623	75.90146534	11.6186079	0.25694102	0.551176854
PLE-17	0.053366009	0.000851107	335.1209059	5.204518695	0.466311867	0.016120962	387.8944101	11.26562748	0.025285722	0.001057563	504.5248709	20.88307966	0.063173832	0.00208594	701.8461612	71.03764835	18.81202526	0.294155534	8.366778158	602.2414941	72.81769818	17.50792409	0.085859227	0.434362175
PLE-18	0.052888999	0.000880091	332.1971159	5.382771687	0.393523153	0.013366045	336.401857	9.73423214	0.016777549	0.000498515	336.2668648	9.909173478	0.053871747	0.001635061	351.2438992	70.00150678	18.99103762	0.306326113	8.448308058	674.8817149	79.66129342	12.50797552	0.063709292	0.620623662
PLE-19	0.06551053	0.000852595	409.0283005	5.151947455	0.467943988	0.015787073	390.445593	11.47907984	0.020257879	0.000821195	405.2475017	16.25057074	0.052368605	0.001759194	279.2190195	77.56167573	15.31947607	0.177464102	9.500283185	305.1688304	32.3258977	6.039310071	0.105335871	0.49119042
PLE-20	0.05349911	0.000998455	335.9146098	6.099496665	0.398816388	0.013357317	340.2658507	9.58038055	0.017431343	0.000657489	349.2159766	12.9799921	0.054451296	0.001928724	354.590934	56.56127526	18.80785349	0.335211645	8.649926344	710.2596161	82.49795596	13.40962582	-0.12069926	0.502704055
PLE-21	0.054110954	0.00104038	339.6533783	6.357193572	0.394918079	0.012736973	338.5341079	9.770540694	0.017005112	0.000485629	340.7938285	9.651029743	0.053267405	0.001577634	327.6183777	67.63537489	18.60509921	0.353121243	8.686815624	715.281049	82.8624649	13.05580449	0.071381091	0.676003469
PLE-22	0.054960127	0.001095531	344.8374584	6.68559322	0.401109936	0.013772137	341.8810191	9.963628542	0.017158674	0.000575155	343.8238503	11.42812364	0.052841379	0.001558446	316.6195817	63.52468438	18.32566435	0.352245949	9.479191992	720.7655809	75.90967466	12.12454814	0.007780991	0.756348949
Z_Temora2																								
TEM-1	0.066304062	0.000795328	413.8336744	4.80082741	0.516499355	0.026411428	420.3131631	15.5493775	0.021032851	0.000826785	420.5911292	16.20029511	0.056281217	0.002586302	400.53139	74.94545767	15.10133083	0.174140181	1.880314864	212.7345056	112.2283693	22.13000966	-0.67304507	0.796091114
TEM-2	0.067534974	0.000969354	421.2504714	5.853244347	0.520951839	0.018420579	424.8812613	11.85625644	0.021020148	0.00055832	420.4293404	11.03285768	0.055875048	0.001895454	427.1796754	68.98645716	14.79387159	0.216011025	1.732197341	405.8213549	232.8869697	45.08666176	-0.29944703	0.522204794
TEM-3	0.065223413	0.000753662	407.3009802	4.560837075	0.511294079	0.021165566	417.8372531	13.43532151	0.020225082	0.000511487	404.6927656	10.12216717	0.057001313	0.00240086	453.159911	81.55554472	15.34822948	0.177738396	1.679465116	266.48259	158.5129375	29.82964118	-0.46622056	0.597798801
TEM-4	0.069332224	0.001275912	432.0518544	7.672983539	0.526493167	0.017819846	428.7150605	11.83212406	0.021387823	0.000628369	427.6905581	12.42576467	0.055406909	0.001719495	413.5180009	69.9471621	14.50319686	0.251120139	2.867468924	353.9211909	126.5215212	24.32534905	0.095223727	0.612633442
TEM-5	0.066623908	0.000826744	415.7638511	4.994880562	0.528752412	0.023867328	428.951675	15.12400942	0.022412699	0.000879622	447.8728316	17.31568015	0.05763346	0.002482955	470.9443419	89.24877985	15.0330871	0.185409003	3.585796955	163.4461244	45.77784098	9.630644547	-0.59210183	0.738543656
TEM-6	0.06568965	0.000769236	410.1207577	4.651444475	0.507473931	0.020823236	415.3147194	13.40140834	0.02203752	0.0010536	440.3758577	20.6207343	0.056143984	0.002287393	419.9623341	84.82256464	15.24030851	0.176853482	4.744581095	232.5399586	48.86351013	10.18938969	-0.70302026	0.855268829
TEM-7	0.067262853	0.000868761	419.6203415	5.246760861	0.518366862	0.024613962	418.4080562	13.59237059	0.021509925	0.000620788	430.1079429	12.2678536	0.055367381	0.002323702	380.0934088	96.78696426	14.89468897	0.192848899	1.860514461	179.6168256	97.06248463	19.12639797	-0.15686003	0.345109436

TEM-8	0.0676822	0.00086597	422.1541764	5.226231487	0.525624119	0.020816674	427.5419469	13.77537157	0.02061445	0.000553465	412.3976221	10.95760482	0.056322559	0.002223428	449.701397	86.52516978	14.80018245	0.187526089	1.878954697	168.367815	89.2233246	17.17693344		0.29710406	-0.0330585
TEM-9	0.066160767	0.000954602	412.9472018	5.771573122	0.575404206	0.069322678	437.4305015	17.38287911	0.022030267	0.002217568	439.3519362	42.22221389	0.061878625	0.005220766	517.9714366	103.2910911	15.15969894	0.220293156	1.966640385	101.3656829	51.51581879	10.86088209		-0.75911562	0.903012716
TEM-10	0.066700177	0.000940196	416.2110114	5.679518033	0.535944467	0.034953052	425.3555209	15.69194744	0.021593085	0.001037135	431.5895726	20.38893199	0.057018317	0.002759628	447.7997896	98.89695644	15.03214684	0.210542263	3.587187318	101.8033484	28.2885837	5.657848618		-0.50798403	0.715936322
TEM-11	0.065512361	0.000897474	409.0331402	5.421731797	0.507735801	0.026318667	414.2137918	16.65890668	0.021053757	0.000708456	421.0497786	13.97998019	0.056205927	0.002875961	388.5149578	109.6533919	15.29943339	0.202252883	1.933006767	134.5181021	69.70402821	13.61054526		-0.52425133	0.697765409
TEM-12	0.0667519	0.00090753	416.5276007	5.48092659	0.540816936	0.044282817	432.1552248	22.92229013	0.022076494	0.002289685	440.2009012	43.64019198	0.058735655	0.004293216	418.9364825	107.2622524	15.0155485	0.202122473	3.831120599	123.9514661	32.51182363	6.860494391		-0.80064714	0.955552508
TEM-13	0.066901546	0.000997463	417.4206052	6.030745215	0.530204922	0.024272316	429.757126	15.96003667	0.020887323	0.000771069	417.7327211	15.24883062	0.058364097	0.002838917	478.3794107	106.1766682	14.96877667	0.219985918	3.827324161	108.2039641	28.08288782	5.500610072		-0.04313991	0.246296804
TEM-14	0.065814489	0.000950775	410.8536796	5.752381246	0.522417996	0.026635851	423.90004	17.31459266	0.0212359	0.00075064	424.6402921	14.80201917	0.057736903	0.003012298	461.3535864	107.3990661	15.20236141	0.204360832	1.918834915	104.2262224	54.34687752	10.6961749		-0.47720023	0.739151662
TEM-15	0.065609198	0.000860977	409.623261	5.208941249	0.515718538	0.037932102	417.1074863	20.34387654	0.021300326	0.001133018	425.7468293	22.03852446	0.056791684	0.003736733	369.7746293	94.71084616	15.27300712	0.202802961	1.949594514	148.5240361	75.93160453	15.24317516		-0.73779809	0.87542401
TEM-16	0.065865735	0.000838677	411.1781266	5.07332083	0.519765441	0.026701684	422.174432	17.15470187	0.021336574	0.000996143	426.532355	19.59439637	0.057142017	0.002914067	423.3578846	112.378945	15.20938564	0.195686258	3.87098194	124.130888	32.09595511	6.407570214		-0.51863595	0.697541691
TEM-17	0.065680611	0.001033049	410.0342343	6.235601267	0.554262793	0.057552336	428.1068177	18.44013382	0.021633468	0.001256577	432.2833416	24.45450959	0.058622126	0.003378229	471.00884	112.7376702	15.27953495	0.22944697	1.809926237	145.5786207	80.06245197	16.23656383		-0.80272871	0.96135945
TEM-18	0.066892347	0.000858432	417.3829402	5.186391326	0.500330714	0.021462956	410.2126299	14.61616285	0.020937303	0.000618037	418.7728095	12.23105904	0.054886372	0.002435825	365.5989845	100.6698771	14.95810325	0.199339156	3.084305027	162.7086287	52.7499477	10.16914819		0.149587122	0.112339338
TEM-19	0.066286116	0.000763571	413.7288017	4.616505756	0.507520691	0.017055453	416.0309778	11.53609968	0.021627875	0.000650312	432.4322546	12.83198209	0.055808933	0.001850365	423.2494779	75.78649111	15.10188266	0.174689692	2.861858556	294.1680558	105.6432925	20.70667795		-0.15040764	0.25094791
TEM-20	0.067049153	0.000827543	418.3342537	5.003035774	0.513067104	0.016134815	419.9720669	10.86664002	0.020187905	0.000616544	403.928825	12.21083604	0.055577398	0.001780401	425.3805563	74.56943172	14.87880454	0.176250646	4.060918935	271.3969055	67.32308546	12.40017412		0.199618124	0.169602537
TEM-21	0.067832884	0.001169895	423.0222254	7.031942532	0.530543364	0.021333473	432.4093763	14.65128529	0.021450521	0.000698957	428.9092025	13.82214935	0.05658986	0.002386206	455.0067697	92.20807513	14.76987279	0.245172627	1.885897129	253.479068	137.4793669	26.24792992		0.402179395	0.087747783
TEM-22	0.068218769	0.000945907	425.383119	5.708364919	0.53945863	0.024559382	435.8707849	16.13414178	0.022580928	0.000770194	451.2446792	15.23037176	0.05728585	0.00260467	444.7357971	104.3413774	14.69492279	0.205016069	2.892324909	134.2308359	46.66243538	9.702766302		0.141840665	0.113330915