

Data Repository.

The data repository contains text detailing the detailed methods of argon isotope and major element data collection of biotite from the RLS. The repository also contains text detailing the numerical modelling of heat-loss from the RLS. Figures DR1-DR5 consist of all the normal and inverse isochron diagrams for each sample, a plateau diagram for each sample, an example of a backscatter image of interlayered chlorite within biotite, and an inverse isochron of previously published biotite Ar-Ar data from the RLS. Also included are summary tables DR1-DR4 including age summaries, electron microprobe results, and tabulated results for all steps for each Ar isotope measured.

Data Repository Item DR1

Argon Isotope Measurements

For argon isotopic analyses, biotite separates along with the reference standard, Fish Canyon (FC) sanidine [28.201 Ma; Kuiper et al. (2008)] were placed in Al-disks for neutron irradiation, which was carried out at the US Geological Survey TRIGA reactor for 80 hours without Cd-shielding. At Rutgers University, samples were step-heated using a New Wave 40-watt CO₂ laser and isotopes were measured on a noble gas mass spectrometer made by Mass Analyzer Products (MAP 215–50) and upgraded by Turrin et al. (2010). A typical ten-minute static system ‘cold’ blank, (10^{-18} mol) is: $^{40}\text{Ar} = 420 \pm 13$; $^{39}\text{Ar} = 12.0 \pm 3.6$; $^{38}\text{Ar} = 1.0 \pm 0.4$; $^{37}\text{Ar} = 22.4 \pm 1.4$; $^{36}\text{Ar} = 3.3 \pm 0.3$.

Instrumental mass fractionation was monitored by analyzing a known volume of atmospheric Ar after every eighth sample and blank measurement. For the data reduction we assumed an initial value of $^{38}\text{Ar}/^{36}\text{Ar} = 0.1885 \pm 0.0003$ (Lee et al., 2006). As mentioned in the main text, we do not assume an initial $^{40}\text{Ar}/^{36}\text{Ar} = 298.56 \pm 0.31$ (Lee et al., 2006), but rather use

the intercept value from inverse isochron correlations to calculate plateau ages. Signals for reactor produced ^{37}Ar and ^{39}Ar were corrected using the decay constants of 0.0198 day^{-1} and $7.07 \times 10^{-6} \text{ day}^{-1}$, respectively. ^{37}Ar was not used because most of it had decayed by the time of measurement. Instead, a fixed $^{37}\text{Ar}/^{39}\text{Ar}$ value of 0.001 ± 0.001 was used in age calculations, a value that is supported by the electron microbe data collected on biotite from the RLS (Table DR2). Automated laser heating, gas extraction, mass spectroscopy measurements, and data reduction were implemented using automated software written by A. Deino of the Berkeley Geochronology Center. The age calculations incorporate the decay constants of Steiger and Jäger, (1977) and the following ratios ($/10^{-4}$), which are necessary for making reactor corrections: [$(^{36}\text{Ar}/^{37}\text{Ar})_{\text{Ca}} = 2.75 \pm 0.003$; $(^{39}\text{Ar}/^{37}\text{Ar})_{\text{Ca}} = 6.62 \pm 0.01$; $(^{38}\text{Ar}/^{37}\text{Ar})_{\text{Ca}} = 0.210 \pm 0.1$; $(^{40}\text{Ar}_{\text{K}}/^{39}\text{Ar})_{\text{K}} = 98.1 \pm 0.18$; $(^{38}\text{Ar}_{\text{K}}/^{39}\text{Ar})_{\text{K}} = 13200 \pm 10$; $(^{37}\text{Ar}_{\text{K}}/^{39}\text{Ar})_{\text{K}} = 2.20 \pm 0.007$; $(^{36}\text{Ar}_{\text{Cl}}/^{38}\text{Ar})_{\text{Cl}} = 65000 \pm 3000$].

We define an age plateau as a sequence of three or more consecutive steps with apparent ages that agree within the 95% confidence interval and for which the sum of $^{39}\text{Ar}_{\text{K}}$ released is 50% or more of the total $^{39}\text{Ar}_{\text{K}}$ released on completion of the heating experiment (Dalrymple and Lanphere, 1969, 1974; Fleck et al., 1977). The plateau ages and their errors are calculated using the variance-weighted mean of the plateau steps (Taylor, 1997).

Choice of Constants

Some authors have adopted the most recent determinations for the ^{40}K decay constants and age of the Fish Canyon sanidine (Renne et al. 2011) in the calculation of $^{40}\text{Ar}/^{39}\text{Ar}$ ages. The values of Renne et al. (2011) can be used with the current dataset by recalculating the $^{40}\text{Ar}/^{39}\text{Ar}$ ages using the equation the following equation from Mercer and Hodges (2016):

$$t = \frac{1}{\lambda} \log_e \left[\frac{\exp[\lambda t_m] - 1}{\exp[\lambda_o t_{m_o}] - 1} (\exp[\lambda_o t_o] - 1) + 1 \right] \quad (1)$$

where, t is the new age of measured sample, t_m is the new age of the monitor mineral, t_{m_o} is the original age of the monitor mineral, t_o is the original age of the measured sample, λ is the new decay constant, and λ_o is the original decay constant. When our data is recalculated using the values of Renne et al. (2011), the weighted mean plateau age for all biotite increases from 2054.51 Ma to an implausible age of 2060.40 Ma, older than the U-Pb zircon ages. Similarly, if the Min et al. (2000) decay constants are used (with the Kuiper et al., 2008 value for FC), the weighted mean plateau age for all biotite increases from 2054.51 Ma to an even more implausible age of 2066.26 Ma.

There is currently no consensus within the Ar geochronology community on the "correct" ^{40}K decay constants to use (e.g. Steiger & Jäger (1977); Min et al. (2000); Kwon et al. (2002); Renne et al. (2010); Schwarz et al. (2011); Renne et al. (2011)). With the rapid changes in proposed decay constants (e.g. Min et al., 2000; Kwon et al., 2002; Renne et al., 2010; Renne et al., 2011), we are of the opinion that until a value is agreed upon by the international community, new values should not be used in order to limit confusion and provide consistency. As such, we use the decay constants adopted by the IUGS Subcommission on Geochronology (Steiger and Jäger, 1977) and the reported age (28.201 Ma) of Fish Canyon sanidine of Kuiper et al. (2008). Further justification for this choice is detailed in the section below.

As a secondary standard, the Hb3gr hornblende was irradiated alongside the samples and treated as an unknown. The runs of Hb3gr result in a weighted mean age of 1082.9 ± 3.6 Ma (1σ), well within the error limits of published values for Hb3gr, when adjusted for our age of FC

sanidine [1080 ± 4 Ma (Schwarz and Trieloff, 2007); 1079 ± 8 (Jourdan et al., 2006)]. The runs of Hb3gr result in a weighted mean $R_{\text{FCs}}^{\text{Hb3gr}}$ value of 52.24 ± 0.17 (1σ).

We have also added a R_i value for each age for the reader to readily recalculate these ages, without the use of the Mercer and Hodges (2016) software, using the following equation (Renne et al. 1998), if necessary (Table DR1):

$$t_{std} = \frac{1}{\lambda_{tot}} \ln \left[\frac{(e^{\lambda_{tot} t_i} - 1)}{R_i} + 1 \right] \quad (2)$$

where t_{std} is the age of the standard, λ_{tot} is the total ^{40}K decay constant and t_i is the new age of the sample.

Errors From ^{40}K Decay Constant

As mentioned in the main text the weighted mean of all $^{40}\text{Ar}/^{39}\text{Ar}$ biotite ages increases from 2054.47 ± 0.84 Ma to ± 21 Ma when all external uncertainties are accounted [(e.g. ^{40}K decay constants)], and allows for many thermal models to fit (including the conductive cooling model). While we acknowledge this external uncertainty, we base our interpretations on the measured ages and their internal uncertainties. Our justification is that our $^{40}\text{Ar}/^{39}\text{Ar}$ ages are directly tied to the U-Pb system by two standards that were co-irradiated with our samples, Fish Canyon at 28.2 Ma and Hb3gr at 1082 Ma.

The chosen age (as described above) of 28.201 Ma (Kuiper et al. 2008) for the Fish Canyon Sanidine matches closely with the "28.2 Ma" age from the younger mode of U-Pb zircons for the Fish Canyon unit (Wotzlaw et al. 2013). The U-Pb measurements for this "young" mode indicate an age of 28.206 ± 0.022 Ma (Wotzlaw et al. 2013), an extremely close match to the Astronomically calibrated value (28.201 Ma) of Kuiper et al., 2008.

The Hb3gr $^{40}\text{Ar}/^{39}\text{Ar}$ standard, described above, is an amphibole from the Lone Grove Pluton that we routinely co-irradiate with FC (28.201 Ma) when measuring Archean samples. Blackburn et al. (2017) report a U-Pb zircon crystallization age of 1090.10 ± 0.16 Ma and a youngest titanite cooling age of 1082.2 ± 0.75 Ma for the Lone Grove pluton (Note: the U-Pb crystallization temperature of zircons and closure temperature of titanite is $\sim 900^\circ\text{C}$ and $\sim 600^\circ\text{C}$, respectively). Titanite ages from Blackburn et al. (2017) within error of this youngest age, indicate a mean "young" titanite age of 1082.9 ± 0.58 Ma. The $^{40}\text{Ar}/^{39}\text{Ar}$ closure temperature of amphibole (~ 500 - 600°C ; Harrison, 1982; McDougall and Harrison, 1999) is similar to the U-Pb closure temperature of titanite, and thus the ages should be similar.

As mentioned above, we routinely co-irradiate Hb3gr with FC (28.201 Ma) when measuring Archean samples. The co-irradiated Hb3gr from this study result in a result in a weighted mean $^{40}\text{Ar}/^{39}\text{Ar}$ age of 1082.9 ± 3.6 Ma (1σ).

Now, we re-introduce the R-notation (as in Renne et al., 2010):

$$R_{FC}^{HB} \equiv \frac{(e^{\lambda_{tot}t_{HB}} - 1)}{(e^{\lambda_{tot}t_{FC}} - 1)} \equiv \frac{\left(\frac{^{40}\text{Ar}^*}{^{39}\text{Ar}_K}\right)_{(HB)meas.}}{\left(\frac{^{40}\text{Ar}^*}{^{39}\text{Ar}_K}\right)_{(FC)meas.}} \quad (3)$$

where λ_{tot} is the chosen total ^{40}K decay constant, and t_{FC} and t_{HB} are the U-Pb ages of the standards (in this case FC and Hb3gr, respectively).

By varying the chosen decay constants, an R_{FCs}^{Hb3gr} value can be calculated using the U-Pb values from the same units, namely 28.206 Ma for Fish Canyon (mean of younger mode; Wotzlaw et al., 2013) and 1082.9 Ma for Hb3gr (mean young titanite ages; Blackburn et al., 2017). Comparing the "U-Pb" calibrated R_{FCs}^{Hb3gr} values shows that our measured R_{FCs}^{Hb3gr} of

52.24 best matches the "U-Pb" calibrated $R_{\text{FCs}}^{\text{Hb}3\text{gr}}$ using Steiger and Jäger (1977) [$R_{\text{FCs}}^{\text{Hb}3\text{gr}} = 52.21$], with only a 0.6 per-mill difference. This is compared to the "U-Pb" calibrated $R_{\text{FCs}}^{\text{Hb}3\text{gr}}$ using the decay constants of Min et al. (2000) [$R_{\text{FCs}}^{\text{Hb}3\text{gr}} = 51.97$] which results in a 5 per-mill difference. We also note, that the reported $R_{\text{FCs}}^{\text{Hb}3\text{gr}}$ of 51.88 ± 0.06 (1σ) of Renne et al. (2011), using their preferred standard ages, also results in a 5 per-mill difference.

In summary, using the U-Pb age of FC [28.206 Ma, indistinguishable from 28.201 (Kuiper et al. 2008)] brings us within the EARTHTIME goal of 1-2 per-mill agreement of the U-Pb and $^{40}\text{Ar}/^{39}\text{Ar}$ chronometers. Following this line of reasoning, we are justified in using measurement errors in our interpretation of the thermal model.

Discordant Age Spectra - Chloritization

In the $^{40}\text{Ar}/^{39}\text{Ar}$ dating of biotite from the UG-2 chromitite layer in the upper Critical Zone, Nomade et al. (2004) noted that ~50% of individual biotite grains yielded concordant age spectra, while the rest yielded strongly discordant age spectra. Strongly discordant age spectra are characterized by young apparent ages in early heating steps, followed by anomalously old ages due to the various amount of interlayered chlorite within the grains. During irradiation, ^{39}Ar is recoiled into interlayered K₂O-poor chlorite from K₂O-rich biotite and results in low apparent ages in early heating steps (Hess et al., 1987; Min et al., 2001; Nomade et al., 2004). As step-heating progresses, biotite (now depleted in ^{39}Ar) becomes the main Ar releasing reservoir, resulting in anomalously old apparent ages.

Eight individual biotite grains from the Main Zone in this study also exhibit discordance accompanied by anomalously old ages (as calculated when using an initial $^{40}\text{Ar}/^{36}\text{Ar} = 298.56 \pm 0.31$), consistent with the interlayered chlorite found within these samples (Fig. DR4). After concluding little to no Ar-loss from the UG-2 biotite, Nomade et al. (2004) use the total fusion

age of each discordant sample as a comparison to the plateau ages yielded from concordant age spectra. Some samples in our study, however, show evidence of Ar-loss from a reheating event and we therefore cannot use the total fusion age as a direct comparison to other individual analyses. Instead, we use the isochron and inverse isochron regressions to deduce an age, trapped component and finally, a re-calculated plateau age for these discordant samples.

For the eight discordant biotite samples, isochron and inverse isochron relationships for heating-steps dominated by Ar release from biotite yield ages similar to the plateau ages of concordant analyses (~2055 Ma) but also indicate excess ^{40}Ar . Individual age spectra can be corrected for this trapped component by re-calculating the age spectra using the $^{40}\text{Ar}/^{36}\text{Ar}$ intercept value from an inverse isochron regression. This results in the elimination the chlorite-dominated portion of the age spectra (low apparent ages at early gas release steps) and results in a plateau age for the biotite dominated portion of gas release that is indistinguishable from the isochron ages (Fig. DR3). No isochrons were originally reported in the study of Nomade et al. (2004), however despite low precision in ^{36}Ar measurements, a similar general relationship can be found by re-analyzing the data of Nomade et al. (2004) (Fig. DR5).

Data Repository Item DR2

Thermal Modelling

Previous thermal modelling of the Bushveld Complex by Zeh et al. (2015), which produced a cooling model that matched observed U-Pb zircon ages, assumed no additional heat was produced (e.g. radiogenic or latent heat), that no advection took place and that the magma body was an infinite sheet. The assumption of in an infinite sheet (a 1-D model) was also made by Cawthorn and Webb (2013) and allows for heat loss only through the top and bottom of the intrusion, with no heat loss through the sides. With these assumptions in place, the cooling

profile for the magma body can be solved using the following heat flow equation (Carslaw and Jaeger, 1959):

$$\frac{T-T_s}{T_o-T_s} = \frac{1}{2} \left(\operatorname{erf} \left(\frac{a-x}{2\sqrt{kt}} \right) + \operatorname{erf} \left(\frac{a+x}{2\sqrt{kt}} \right) \right) \quad (4)$$

Where:

T = actual temperature at position x ($^{\circ}\text{C}$)

T_s = initial temperature of host rock ($^{\circ}\text{C}$)

T_o = initial temperature of the magma body ($^{\circ}\text{C}$)

a = half thickness of the magma body (m)

x = distance from center of magma body (m)

k = thermal conductivity (m^2/s)

t = time (s)

Also, where the initial temperature of the host rock (T_s) is calculated for a given depth within the intrusion assuming an elevated local geothermal gradient of $30^{\circ}\text{C km}^{-1}$ (Gibson & Wallmach, 1995) and an average surface temperature of 15°C .

Whereas the samples from this study do not come from the exact center of an infinite sheet, but rather from closer to the contact with the host rocks, we also solve the heat flow equation while allowing heat loss through the sides of the intrusion (a 2-D model). This cooling profile can be solved using a modification of equation (4) of Carslaw and Jaeger (1959):

$$\frac{T-T_s}{T_o-T_s} = \left[\frac{1}{2} \left(\operatorname{erf} \left(\frac{a-x}{2\sqrt{kt}} \right) + \operatorname{erf} \left(\frac{a+x}{2\sqrt{kt}} \right) \right) \right] \left[\frac{1}{2} \left(\operatorname{erf} \left(\frac{b-y}{2\sqrt{kt}} \right) + \operatorname{erf} \left(\frac{b+y}{2\sqrt{kt}} \right) \right) \right] \left[\frac{1}{2} \left(\operatorname{erf} \left(\frac{c-z}{2\sqrt{kt}} \right) + \operatorname{erf} \left(\frac{c+z}{2\sqrt{kt}} \right) \right) \right] \quad (5)$$

Where the following new variables are introduced:

b = half thickness of the magma body in horizontal direction “b” (i.e. East-West)

y = distance from center of magma body (b - direction)

c = half thickness of the magma body in horizontal direction “c” (i.e. North-South)

z = distance from center of magma body (c - direction)

The cooling models are solved using an initial temperature (T_o) of 1250°C for an 8 km sheet of magma. The choice of initial temperature has little effect on the final cooling model, as the

model is built to pass through the observed U-Pb zircon ages and estimated temperatures. Both models are solved for a point at the center of the intrusion (i.e. 4 km from the roof contact), with an estimated 4 km of roof rocks on top of the intrusion (in terms of depth). A 4 km thick roof is consistent with the roof being composed of 2 km Rooiberg Group Lavas (Schweitzer et al., 1997) with 2 km of the coeval and related Bushveld Granite on top. In the case of the 2-D model, the point being solved for is still located at the center of the intrusion in terms of depth ($x = 0$ m), as well as at the center of the intrusion in terms of its North-South dimension ($z = 0$ m). However, the point is now placed at 15 km from the Eastern edge of the Bushveld Complex, while assuming a 450 km-wide intrusion ($b = 225,000$ m; $y = 210,000$ m). This placement allows for a significant amount of heat loss through the sides of the intrusion and provides a likely more realistic estimate of the cooling profile of the solidified body.

It is important to note that the Bushveld Granite is not being modelled as a later magma in this scenario, but rather as part of the roof with the temperature set by the geothermal gradient. The choice (similar to that of Zeh et al., 2015) implies that these models display the fastest possible cooling of the mafic body, as a later or even exactly coeval emplacement would result in additional heat being provided to the RLS and the surrounding rocks. As the observed data already do not fit the conductive cooling model without the additional heat from the Bushveld Granite, the same conclusion would be reached if it were included.

Data Repository Item DR3

Electron Microprobe

In situ major element compositions for biotite were determined using the JEOL JXA 8200 electron microprobe at Rutgers University. All analyses used an acceleration potential of 15

kV, beam current of 15 nA, and a beam diameter of 5 μm . Count times consisted of 15 s on background for each element, while peak count times and primary standard varied per element (Si - Biotite Kristiansand = 20 s, Mg - F-phlogopite stoichiometric = 20 s, Al - Biotite Kristiansand = 20 s, Na - Jadeite = 10 s, F - F-phlogopite stoichiometric = 10 s, Fe - Biotite Kristiansand = 10 s, Mn - Rhodonite = 40 s, Ba - Benitoite = 45 s, Cl - Cl-Apatite Kragero = 10 s, Cr - Mg_2CrO_4 chromite = 40 s, Ca - Apatite Wilberforce = 40 s, K - F-phlogopite stoichiometric = 10 s, Ti - TiO_2 Synthetic = 40 s). H_2O calculated based on $\text{Cl} + \text{F} + \text{OH} = 2.0$ per formula unit.

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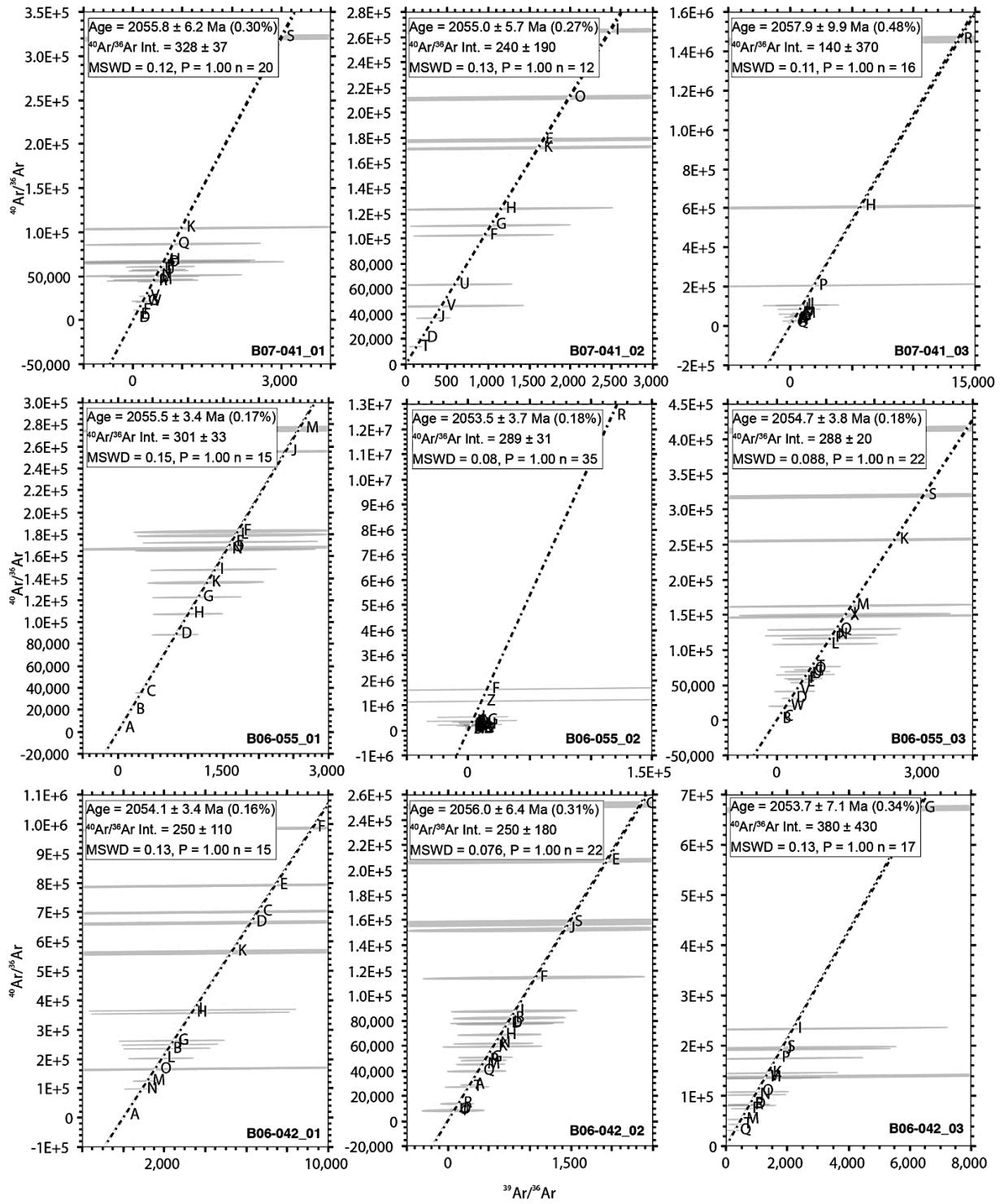


Figure DR1. All Isochrons. Error ellipses, calculated ages, and $^{40}\text{Ar}/^{36}\text{Ar}$ Int. values are displayed with 1σ uncertainties.

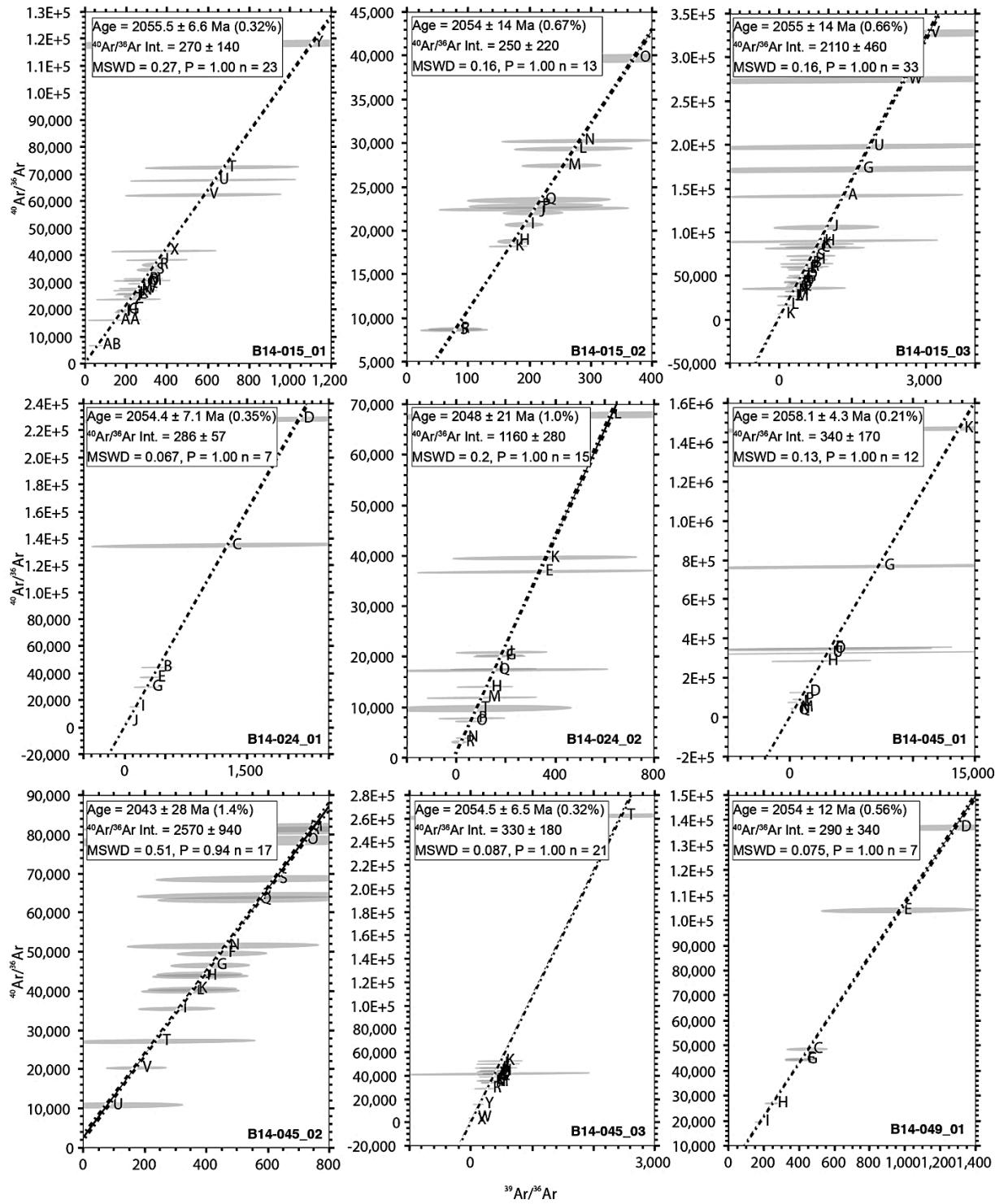
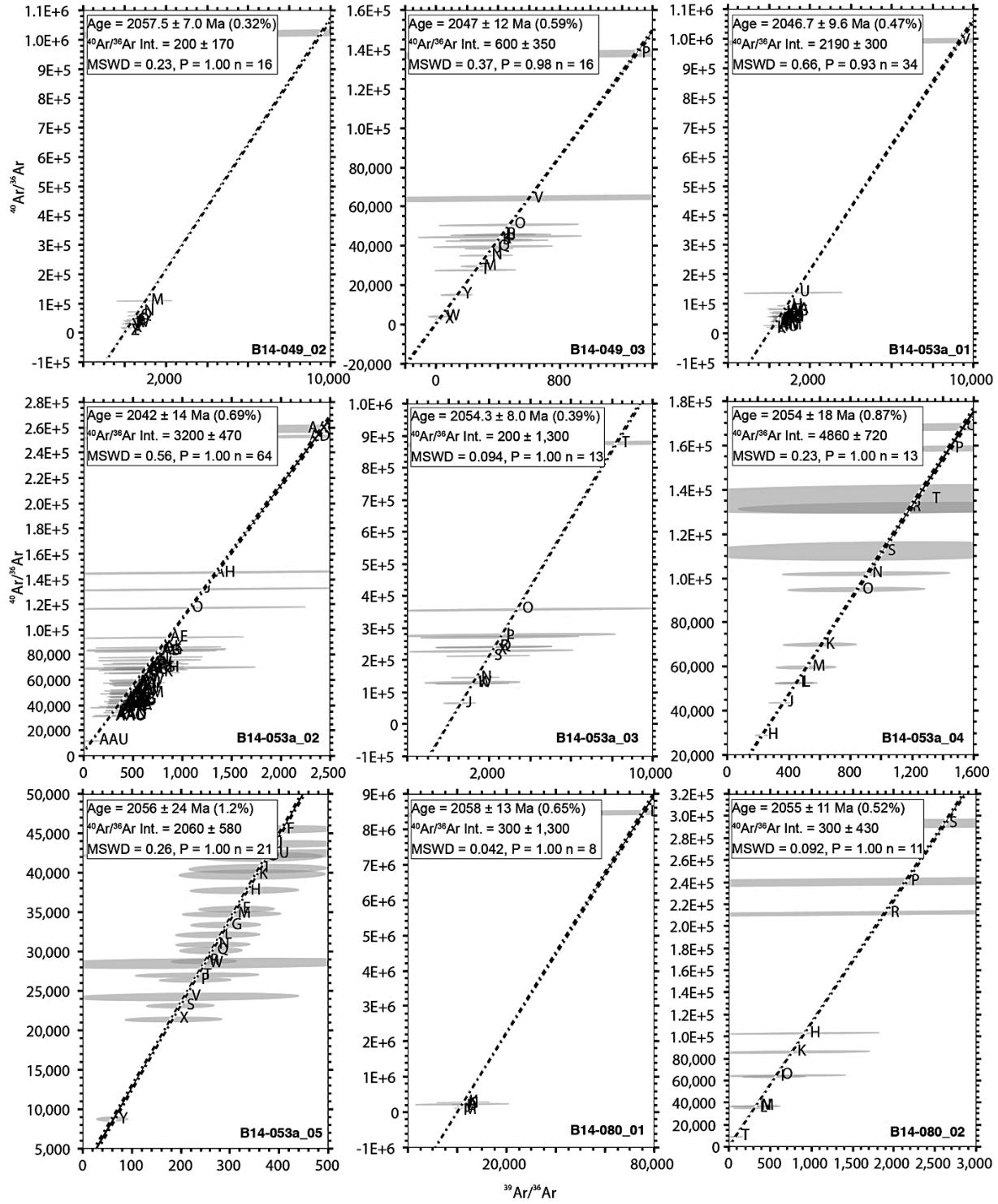


Figure DR1. All Isochrons. (Continued)



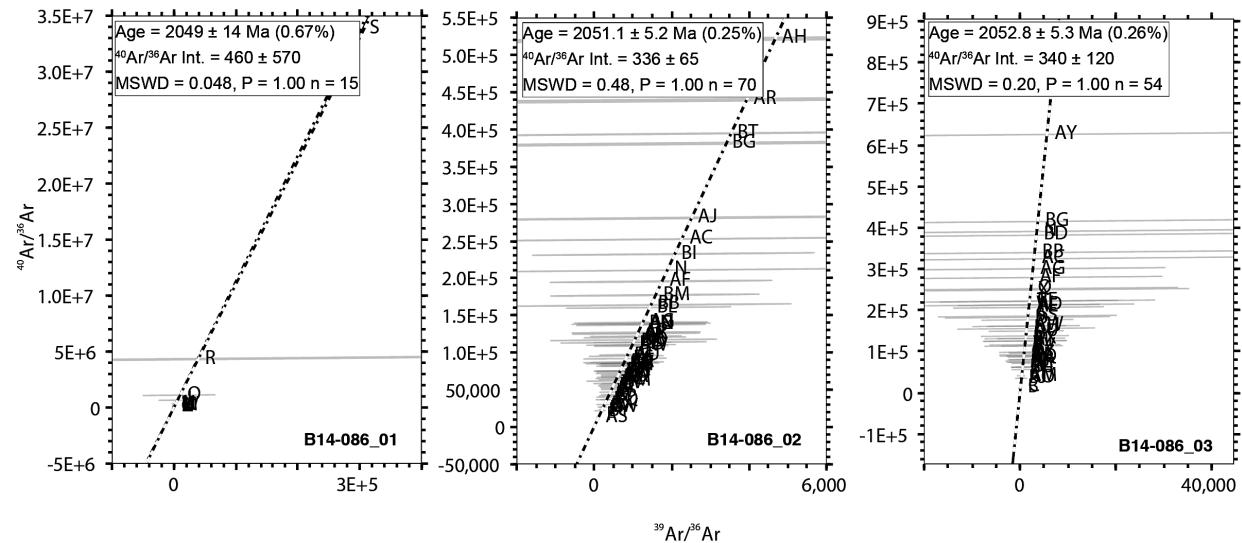


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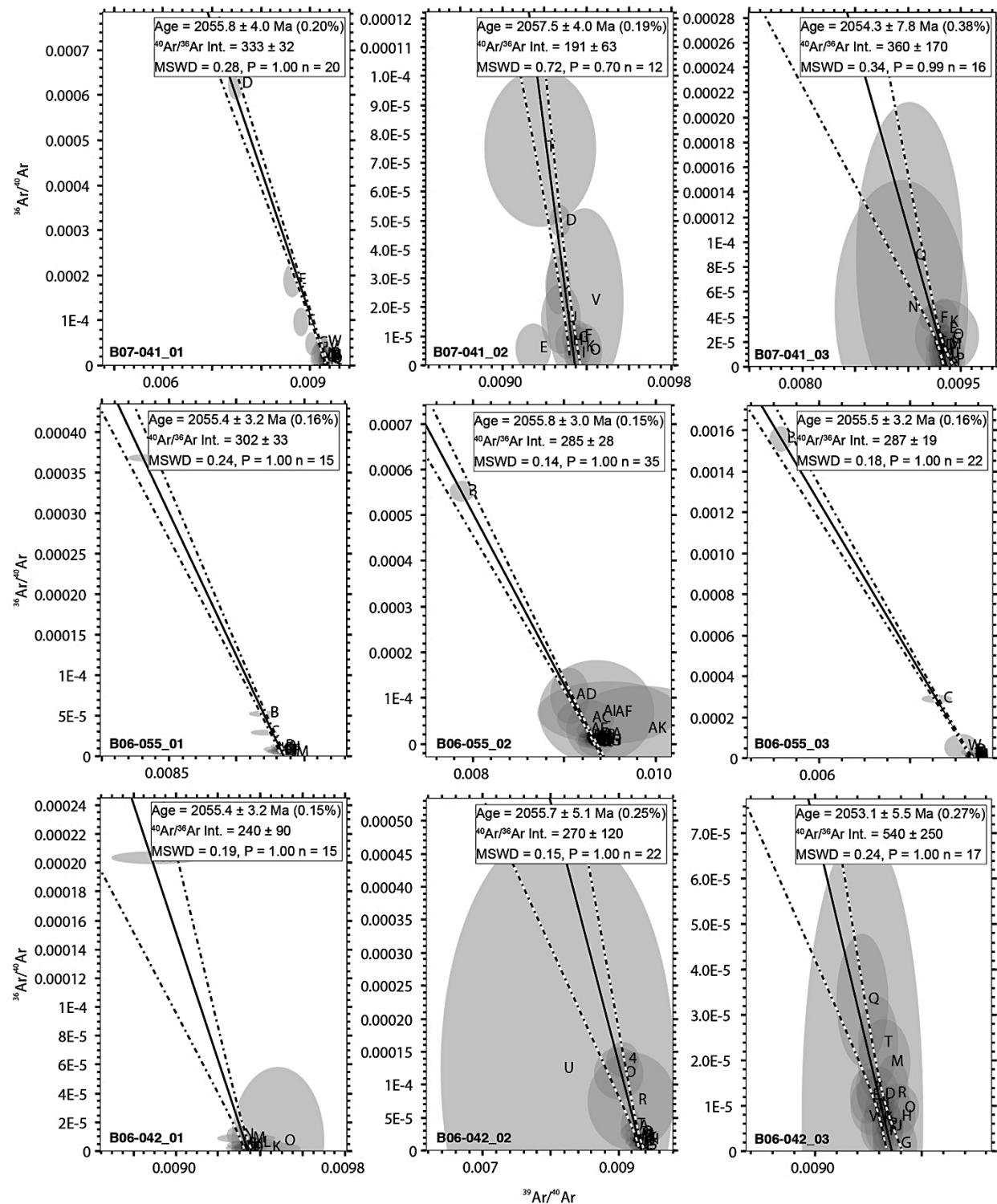


Figure DR2. All Inverse Isochrons. Error ellipses, calculated ages, and $^{40}\text{Ar}/^{36}\text{Ar}$ Int. values are displayed with 1σ uncertainties.

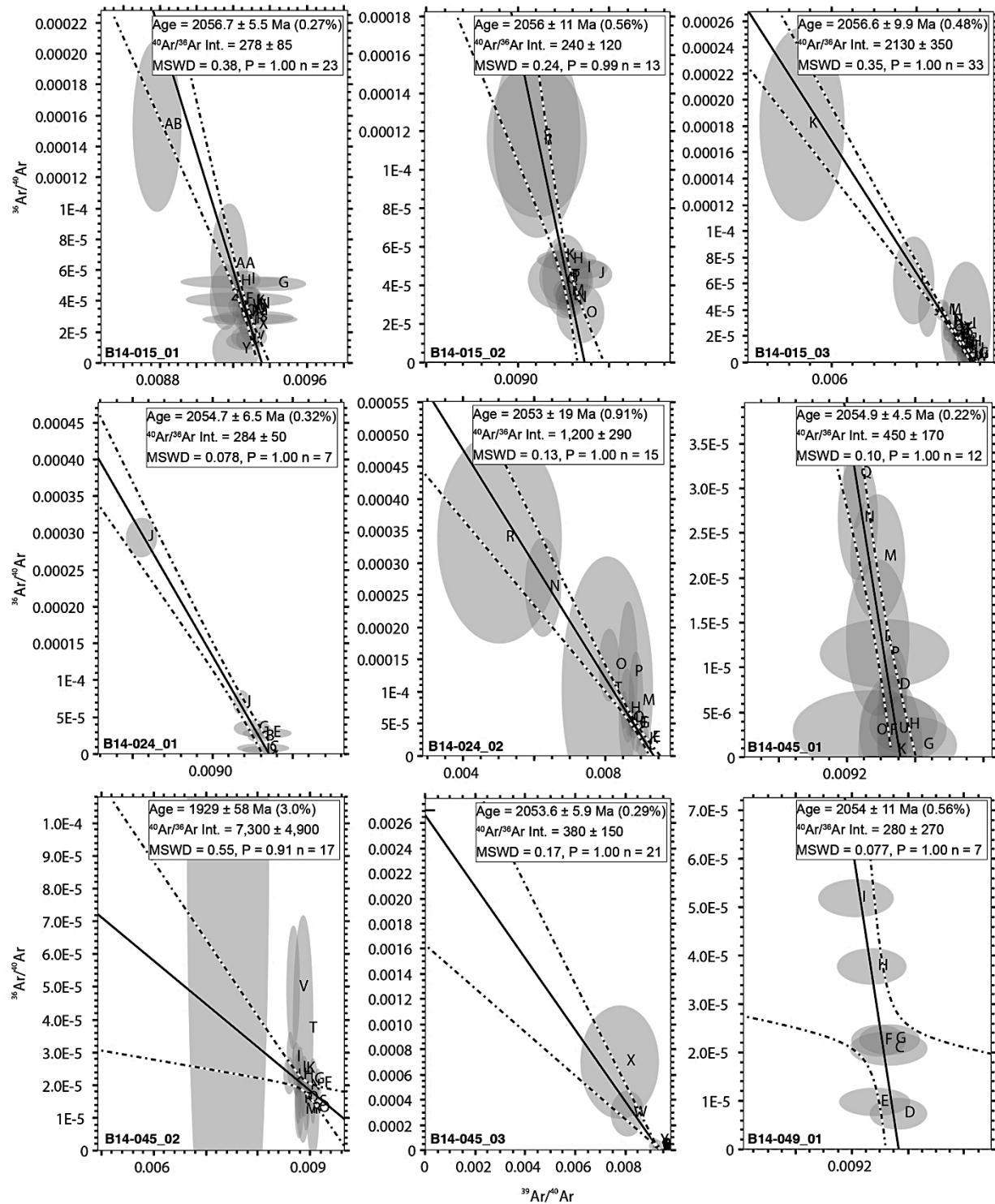
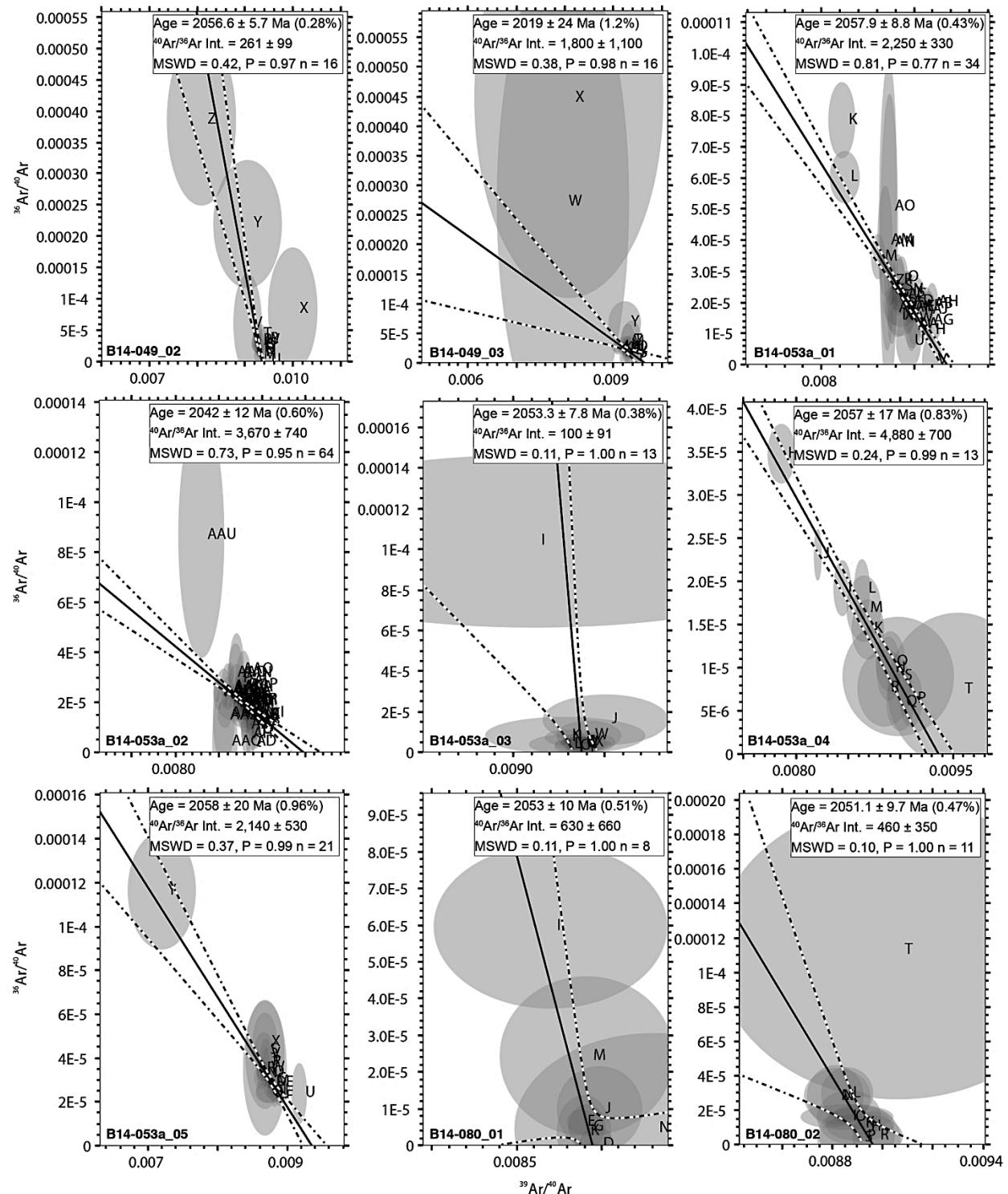


Figure DR2. All Inverse Isochrons. (Continued)



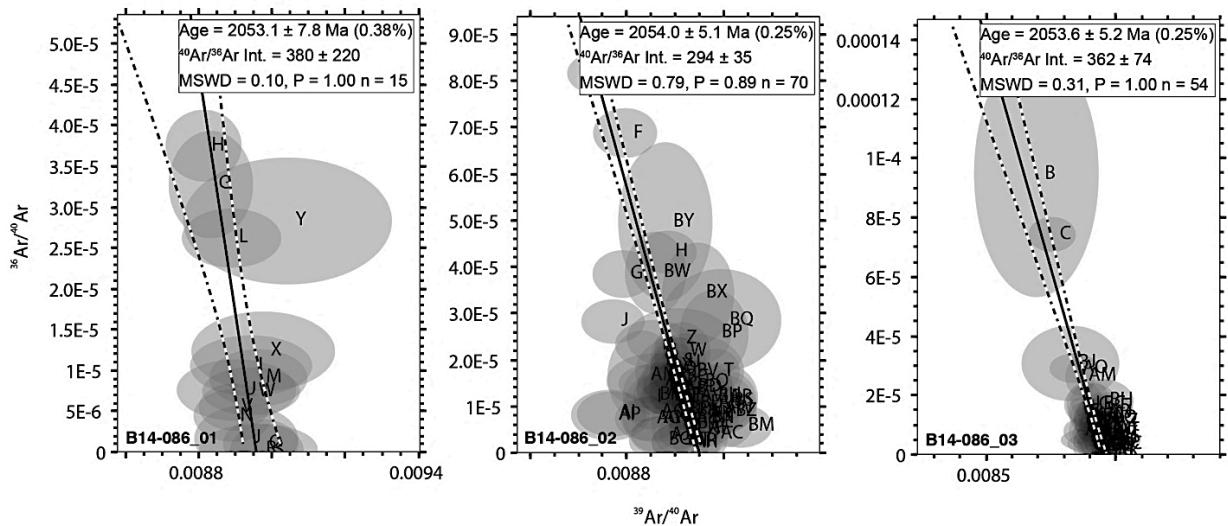


Figure DR2. All Inverse Isochrons. (Continued)

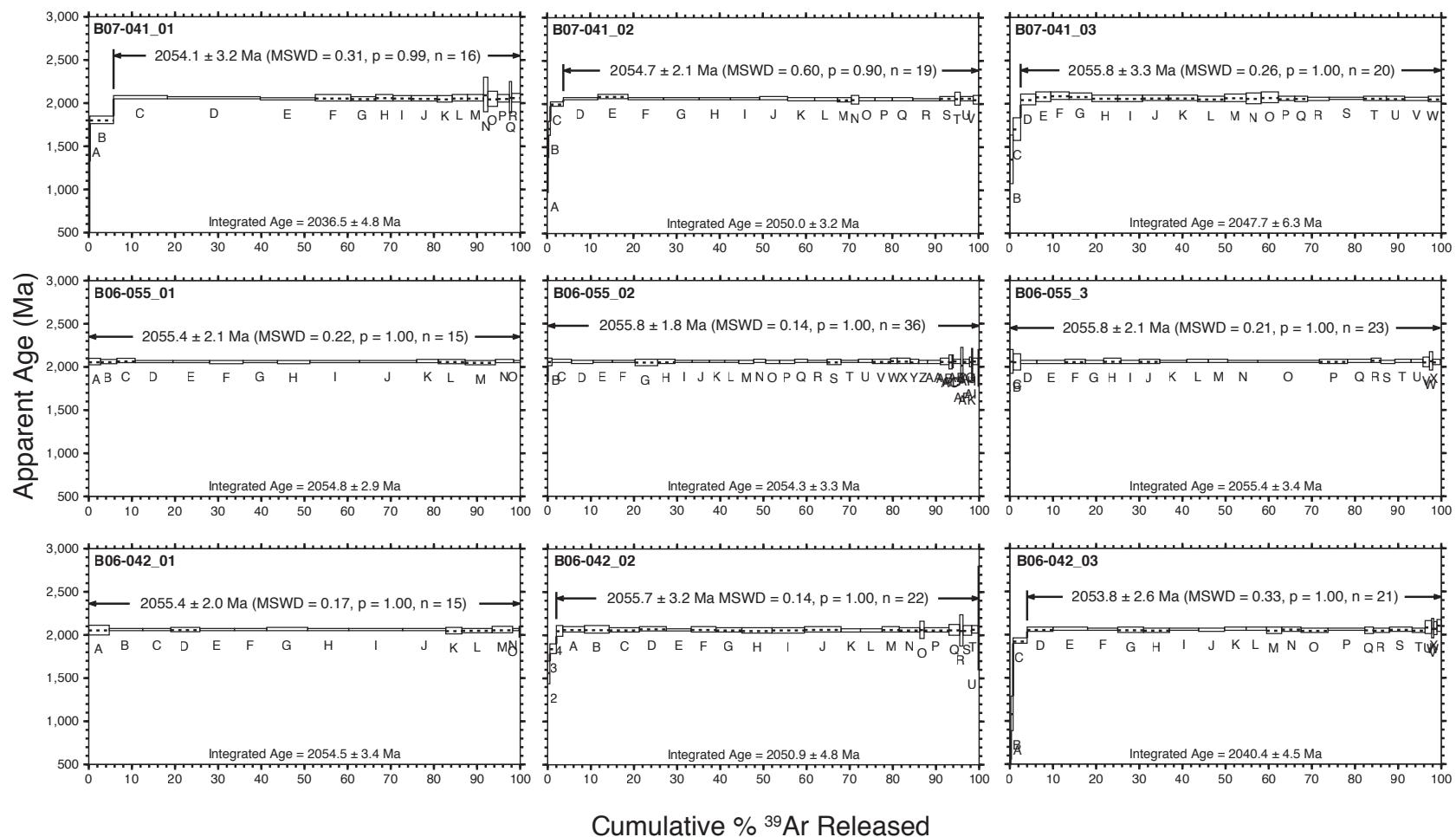


Figure DR3. All Release Spectra. Data and calculated ages are presented with 1σ uncertainties.

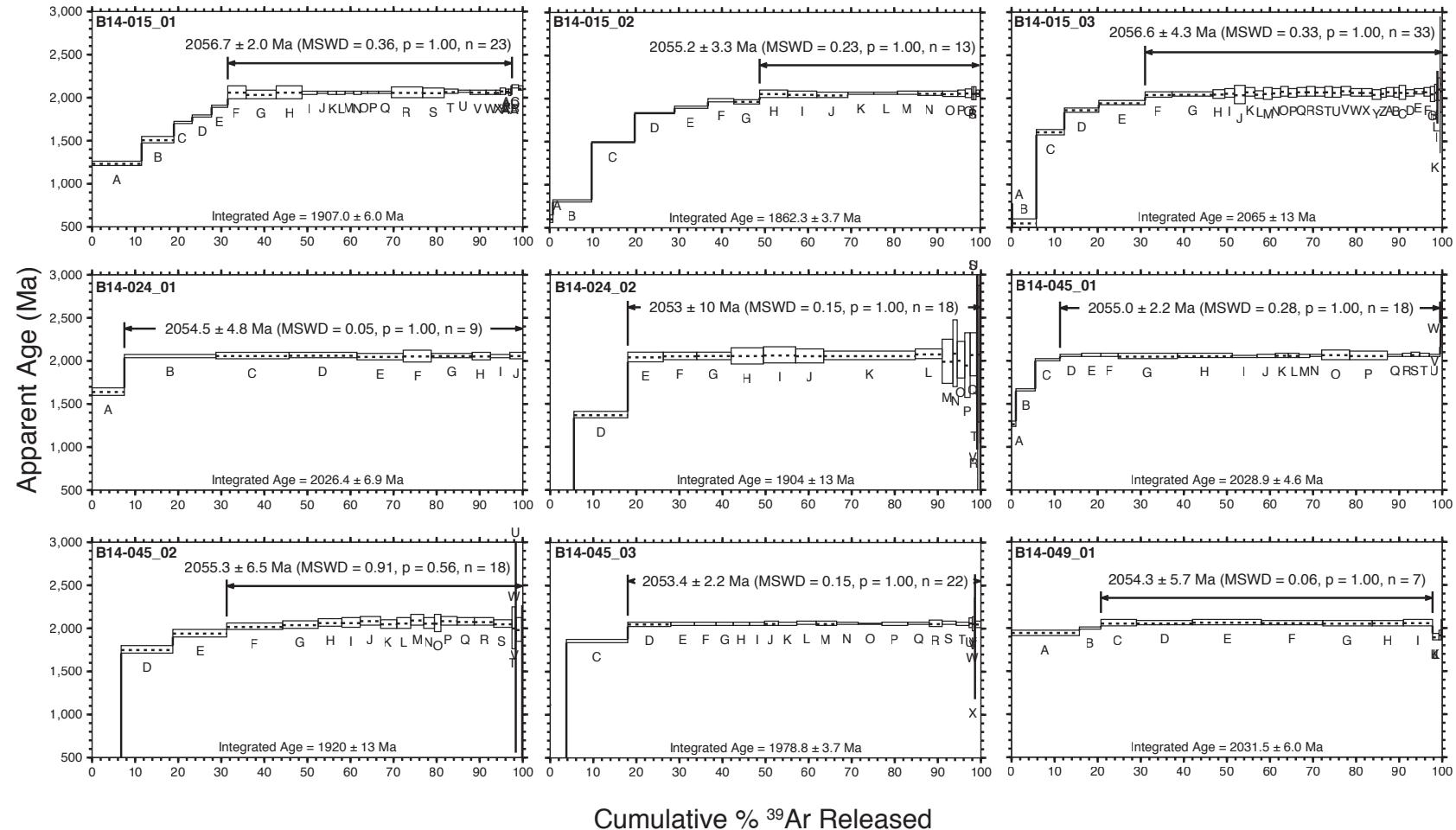


Figure DR3: All Release Spectra. (Continued)

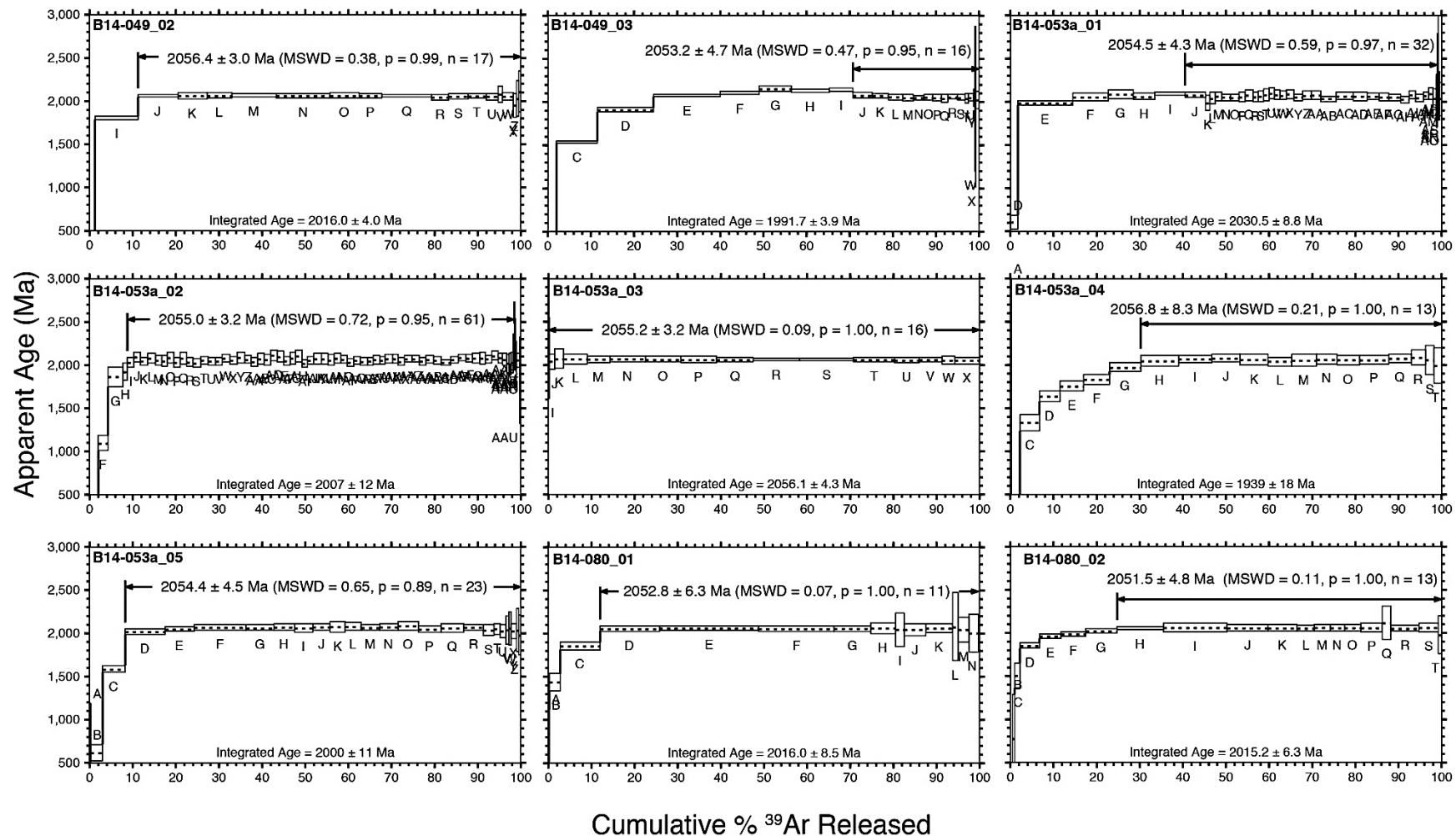


Figure DR3: All Release Spectra. (Continued)

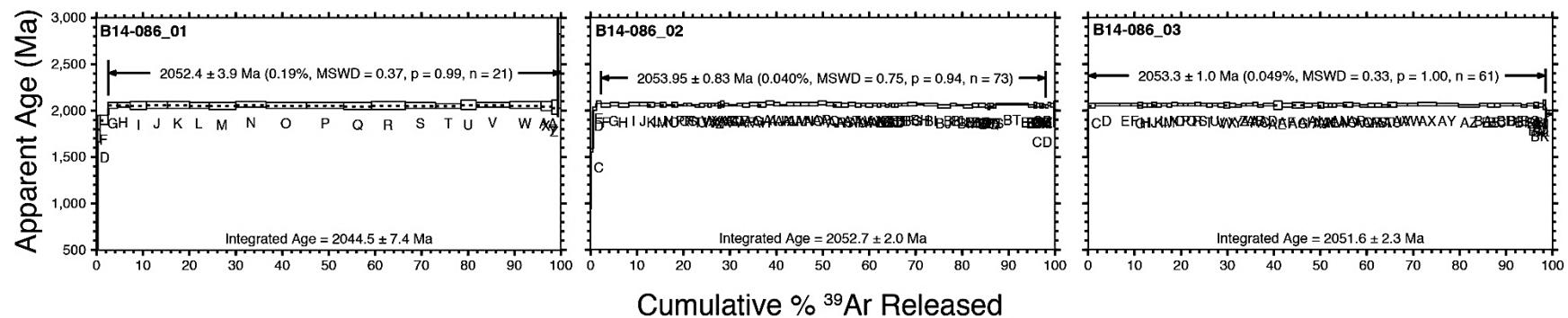


Figure DR3: All Release Spectra. (Continued)

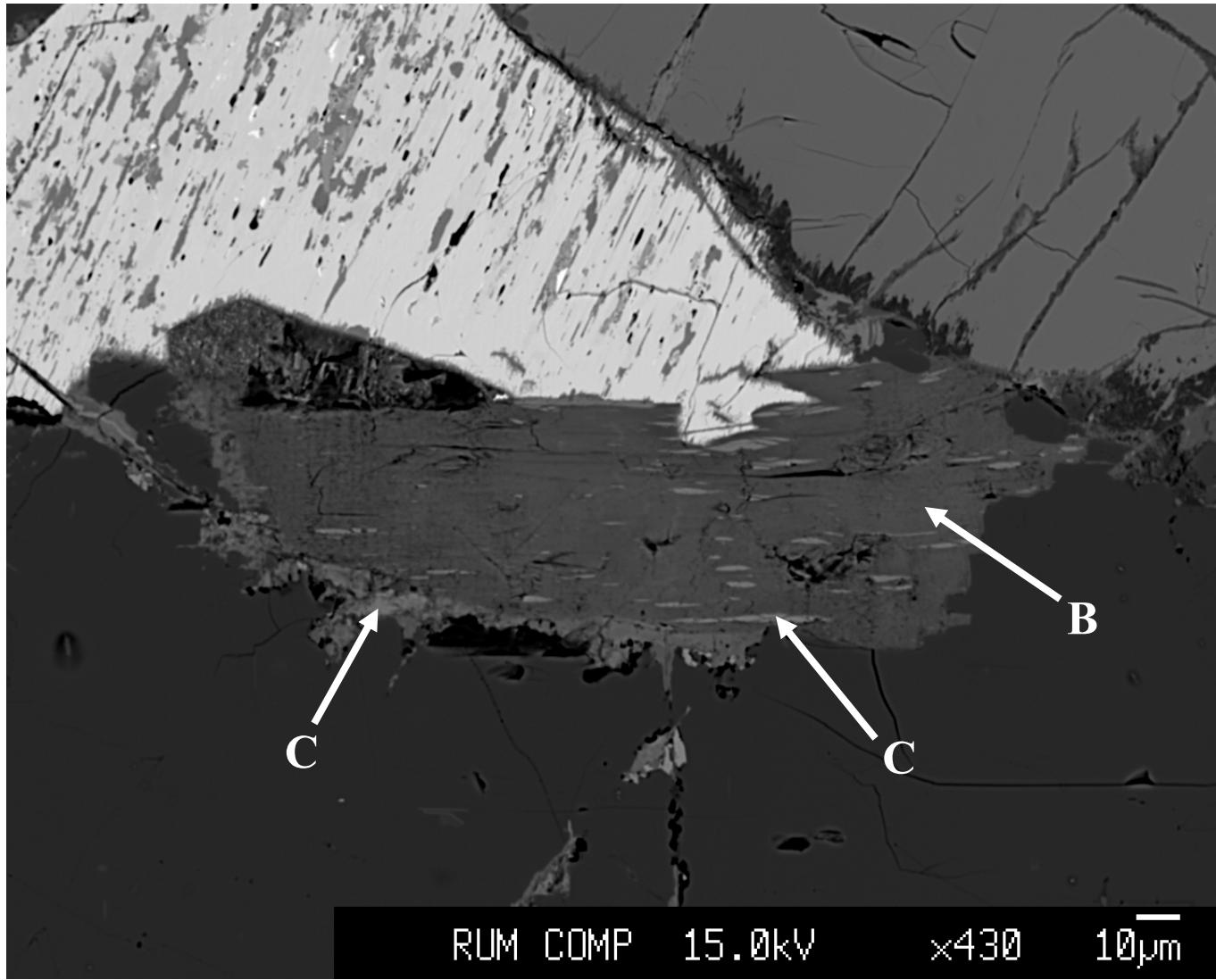


Figure DR4. Backscatter electron image of interlayered chlorite from B14-024. Arrows denote biotite (B) grain and areas of interlayered chlorite (C).

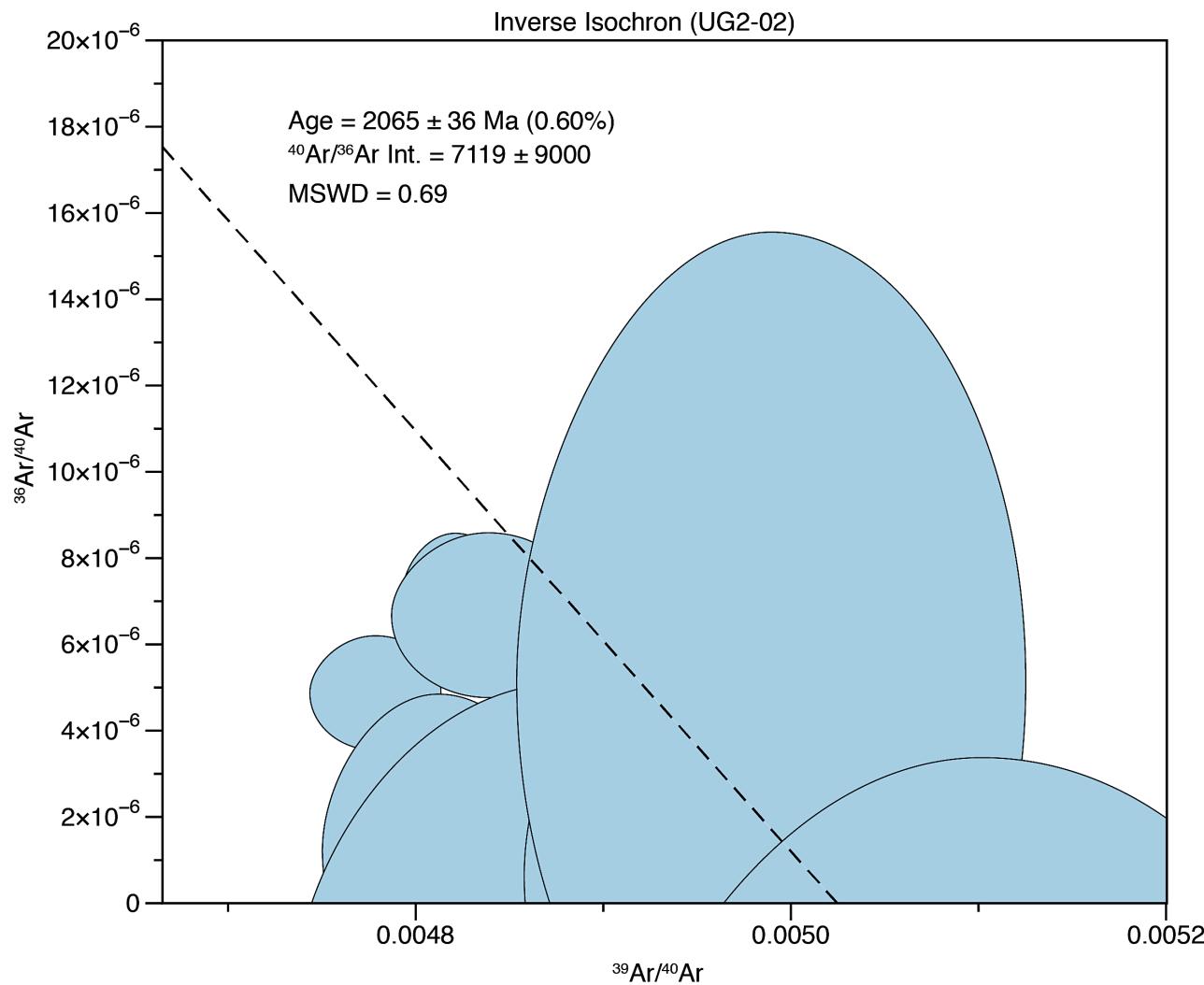


Figure DR5. Inverse Isochron from sample UG2-02 of Nomade et al. (2004). UG2-01 of Nomade et al. (2004) is an example of a discordant age spectra dominated by interlayered chlorite. The inverse isochron was constructed for steps 4.5 W (watts) through 10 W using Isoplot (Ludwig, 2003). The original reported plateau age for the sample was 2102 Ma, recalculated to 2110 Ma to match the FC age of this study.

Table DR1. Stepwise Heating Results: moles (10^{-17} for $^{36,38,39}\text{Ar}$, 10^{-15} for ^{40}Ar and $^{40}\text{Ar}^*$) of each isotope for each heating step. J is the measure of the neutron flux in the reactor. All uncertainties reported at 1σ . Blank cells represent negative values.

Sample	Run ID	Power	36Ar	38Ar	39Ar	40Ar	40Ar*	Age (Ma)	R _i	Used in Plateau Age
B07-041_01	22486-01A	1.5	1.54±0.23	0.89±0.10	2.69±1.07	6.62±1.11	1.51±0.79	1350±630	70.67	
$J = 1.98874\text{e-}2$	22486-01B	3	3.66±0.24	2.85±0.14	12.47±1.13	19.18±1.14	7.00±0.82	1350±140	70.67	
$\pm 3.18272\text{e-}5$	22486-01C	5	6.60±0.25	3.31±0.15	26.29±1.04	42.70±1.17	20.74±0.84	1702±64	99.57	
	22486-01D	7	4.65±0.25	4.65±0.18	55.86±1.17	74.51±1.18	59.03±0.84	2042±30	133.39	x
	22486-01E	8	1.22±0.23	3.52±0.15	56.10±1.17	64.91±1.11	60.85±0.80	2074±29	136.91	x
	22486-01F	9	0.73±0.23	4.31±0.19	67.16±1.22	76.02±1.11	73.59±0.79	2087±24	138.36	x
	22486-01G	10	0.45±0.23	4.79±0.17	84.88±1.32	93.78±1.10	92.30±0.79	2077±20	137.24	x
	22486-01H	11	0.15±0.23	5.37±0.19	92.98±1.25	100.01±1.11	99.51±0.81	2058±17	135.14	x
	22486-01I	12	0.15±0.23	5.25±0.19	93.01±1.25	99.92±1.10	99.41±0.79	2056±17	134.92	x
	22486-01J	13	0.23±0.23	7.84±0.20	98.12±1.28	105.97±1.09	105.20±0.78	2060±16	135.36	x
	22486-01K	14	0.11±0.23	8.59±0.20	107.40±1.32	115.57±1.09	115.20±0.78	2060±15	135.36	x
	22486-01L	15	0.22±0.23	5.82±0.18	99.26±1.26	106.23±1.09	105.50±0.78	2049±15	134.15	x
	22486-01M	16	0.19±0.22	4.81±0.21	79.38±1.27	85.97±1.07	85.33±0.76	2063±21	135.69	x
	22486-01N	17	0.12±0.22	2.81±0.17	53.93±1.37	58.03±1.07	57.65±0.76	2056±34	134.92	x
	22486-01O	18	0.11±0.22	3.78±0.17	63.36±1.45	68.64±1.06	68.29±0.76	2066±30	136.02	x
	22486-01P	19	0.11±0.07	3.60±0.15	62.38±0.76	66.81±0.35	66.44±0.25	2052±12	134.48	x
	22486-01Q	20	0.06±0.07	2.67±0.13	46.51±0.66	49.86±0.36	49.67±0.27	2055±16	134.81	x
	22486-01R	22	0.19±0.08	5.09±0.18	77.86±0.86	83.51±0.37	82.86±0.27	2051±10	134.37	x
	22486-01S	24	0.04±0.08	8.70±0.22	130.30±1.36	139.45±0.42	139.30±0.31	2055.7±8.6	134.89	x
	22486-01T	26	0.16±0.08	4.97±0.17	82.37±0.96	88.65±0.39	88.13±0.28	2057±11	135.03	x
	22486-01U	28	0.13±0.08	4.26±0.16	67.29±0.80	72.17±0.37	71.74±0.27	2053±12	134.59	x
	22486-01V	30	0.36±0.08	4.68±0.17	88.75±1.00	95.67±0.40	94.45±0.30	2051±10	134.37	x
	22486-01W	32	0.24±0.07	2.72±0.12	45.01±0.64	48.63±0.36	47.82±0.26	2049±16	134.15	x

B07-041_02	22486-02A	1.5	1.37 ± 0.08	0.25 ± 0.08	5.32 ± 0.45	5.73 ± 0.33	1.72 ± 0.24	890 ± 110	40.48
$J = 1.98874\text{e-}2$	22486-02B	3	2.86 ± 0.09	0.87 ± 0.10	12.91 ± 0.41	17.13 ± 0.37	8.78 ± 0.26	1543 ± 46	85.82
$\pm 3.18272\text{e-}5$	22486-02C	5	5.29 ± 0.12	2.18 ± 0.14	58.36 ± 0.57	71.99 ± 0.49	56.56 ± 0.35	1938 ± 13	122.36
	22486-02D	7	0.82 ± 0.09	2.89 ± 0.15	152.70 ± 0.95	164.69 ± 0.39	162.30 ± 0.29	2049.0 ± 6.6	134.15
	22486-02E	8	0.09 ± 0.13	2.77 ± 0.16	139.90 ± 1.34	152.95 ± 0.55	152.70 ± 0.40	2081 ± 11	137.69
	22486-02F	9	0.17 ± 0.09	3.01 ± 0.17	158.00 ± 0.99	168.78 ± 0.40	168.30 ± 0.31	2051.6 ± 6.8	134.44
	22486-02G	10	0.16 ± 0.09	2.72 ± 0.16	161.60 ± 1.02	173.16 ± 0.40	172.70 ± 0.30	2055.6 ± 6.8	134.88
	22486-02H	11	0.12 ± 0.09	2.75 ± 0.15	139.80 ± 0.92	150.16 ± 0.40	149.80 ± 0.30	2059.6 ± 7.4	135.32
	22486-02I	12	0.05 ± 0.09	2.39 ± 0.17	133.80 ± 0.89	143.16 ± 0.40	143.00 ± 0.30	2055.5 ± 7.5	134.87
	22486-02J	13	0.38 ± 0.14	2.07 ± 0.16	126.60 ± 0.89	136.70 ± 0.57	135.60 ± 0.41	2058.1 ± 8.5	135.15
	22486-02K	14	0.08 ± 0.09	1.94 ± 0.17	121.10 ± 0.81	129.32 ± 0.45	129.10 ± 0.37	2052.2 ± 7.9	134.50
	22486-02L	15		1.72 ± 0.13	102.10 ± 0.79	108.56 ± 0.57	109.00 ± 0.42	2053.8 ± 9.8	134.68
	22486-02M	16		1.24 ± 0.12	63.07 ± 0.62	66.27 ± 0.50	66.75 ± 0.38	2044 ± 13	133.61
	22486-02N	17		0.54 ± 0.10	31.83 ± 0.54	33.05 ± 0.46	33.87 ± 0.34	2050 ± 24	134.26
	22486-02O	19	0.04 ± 0.07	1.20 ± 0.12	72.63 ± 0.70	77.37 ± 0.32	77.26 ± 0.23	2050 ± 12	134.26
	22486-02P	21		1.33 ± 0.14	80.60 ± 0.61	85.39 ± 0.49	86.13 ± 0.36	2055.8 ± 9.7	134.90
	22486-02Q	23		1.64 ± 0.12	90.69 ± 0.73	96.05 ± 0.43	96.68 ± 0.31	2052.8 ± 9.7	134.57
	22486-02R	25		2.00 ± 0.15	122.70 ± 0.86	129.83 ± 0.35	130.00 ± 0.27	2045.4 ± 7.8	133.76
	22486-02S	27		1.12 ± 0.10	69.94 ± 0.67	74.99 ± 0.33	75.03 ± 0.24	2061 ± 12	135.47
	22486-02T	29	0.20 ± 0.07	0.56 ± 0.10	24.05 ± 0.69	26.18 ± 0.30	25.61 ± 0.21	2052 ± 36	134.48
	22486-02U	31	0.10 ± 0.07	1.13 ± 0.12	56.29 ± 0.59	60.66 ± 0.31	60.38 ± 0.23	2060 ± 13	135.36
	22486-02V	33	0.05 ± 0.08	0.20 ± 0.10	22.68 ± 0.44	24.14 ± 0.32	23.99 ± 0.23	2043 ± 26	133.50
B07-041_03	22486-03A	1.5	2.10 ± 0.14	0.63 ± 0.10	4.55 ± 0.42	8.83 ± 0.71	1.26 ± 0.50	790 ± 260	34.88
$J = 1.98874\text{e-}2$	22486-03B	3	2.43 ± 0.10	1.67 ± 0.12	53.92 ± 0.91	55.15 ± 0.50	46.39 ± 0.36	1799 ± 20	108.58
$\pm 3.18272\text{e-}5$	22486-03C	5	0.25 ± 0.10	3.02 ± 0.15	126.10 ± 0.95	136.61 ± 0.51	135.70 ± 0.37	2064.9 ± 7.6	135.90
	22486-03D	7	0.37 ± 0.11	5.16 ± 0.21	214.40 ± 1.43	230.54 ± 0.57	229.20 ± 0.42	2056.4 ± 5.9	134.97
	22486-03E	8	0.41 ± 0.10	3.32 ± 0.16	129.90 ± 1.01	139.08 ± 0.53	137.60 ± 0.38	2045.3 ± 8.1	133.75
	22486-03F	9	0.34 ± 0.10	2.27 ± 0.14	81.70 ± 1.24	88.31 ± 0.54	87.10 ± 0.40	2053 ± 19	134.59

	22486-03G	10	0.13 ± 0.07	1.28 ± 0.11	56.45 ± 0.61	60.32 ± 0.37	59.85 ± 0.27	2046 ± 13	133.83	x
	22486-03H	11	0.01 ± 0.10	0.92 ± 0.11	42.37 ± 0.52	45.37 ± 0.54	45.34 ± 0.39	2057 ± 17	135.03	x
	22486-03I	12	0.05 ± 0.07	1.01 ± 0.09	41.83 ± 0.47	44.80 ± 0.36	44.61 ± 0.26	2053 ± 14	134.59	x
	22486-03J	14	0.06 ± 0.07	1.25 ± 0.11	59.09 ± 0.67	62.98 ± 0.43	62.77 ± 0.33	2049 ± 14	134.15	x
	22486-03K	16	0.14 ± 0.07	0.73 ± 0.10	36.42 ± 0.55	38.99 ± 0.41	38.50 ± 0.31	2042 ± 20	133.39	x
	22486-03L	18	0.04 ± 0.07	0.73 ± 0.09	34.01 ± 0.52	36.38 ± 0.36	36.25 ± 0.26	2053 ± 20	134.59	x
	22486-03M	20	0.07 ± 0.10	0.83 ± 0.10	39.17 ± 0.52	41.99 ± 0.53	41.74 ± 0.39	2052 ± 19	134.48	x
	22486-03N	22	0.04 ± 0.09	0.24 ± 0.07	8.11 ± 0.57	9.06 ± 0.48	8.91 ± 0.34	2091 ± 99	138.81	x
	22486-03O	24	0.06 ± 0.07	0.58 ± 0.09	22.59 ± 0.73	24.11 ± 0.36	23.90 ± 0.25	2043 ± 41	133.50	x
	22486-03P	26	0.01 ± 0.07	0.85 ± 0.10	28.39 ± 0.44	30.18 ± 0.36	30.13 ± 0.25	2048 ± 21	134.04	x
	22486-03Q	28	0.05 ± 0.07	0.04 ± 0.07	5.05 ± 0.28	5.60 ± 0.35	5.42 ± 0.25	2061 ± 88	135.47	x
	22486-03R	33	0.00 ± 0.07	0.46 ± 0.08	18.76 ± 0.33	20.09 ± 0.33	20.08 ± 0.24	2058 ± 25	135.14	x
B06-055_01	22485-01A	7	18.00 ± 0.19	34.75 ± 0.28	407.58 ± 5.54	489.96 ± 0.86	435.62 ± 0.65	2054 ± 17	134.70	x
<i>J = 1.98616e-2</i>	22485-01B	9	2.70 ± 0.16	35.32 ± 0.33	478.87 ± 5.54	520.25 ± 0.84	512.08 ± 0.68	2055 ± 14	134.81	x
$\pm 3.84630e-5$	22485-01C	11	1.78 ± 0.18	44.46 ± 0.35	578.45 ± 5.55	628.49 ± 1.85	623.15 ± 1.77	2064 ± 12	135.80	x
	22485-01D	14	1.46 ± 0.34	88.20 ± 0.52	1197.31 ± 6.67	1285.11 ± 3.34	1280.74 ± 3.17	2055.2 ± 7.6	134.83	x
	22485-01E	16	0.74 ± 0.34	85.30 ± 0.50	1177.16 ± 5.21	1264.65 ± 1.77	1262.38 ± 1.42	2058.3 ± 5.7	135.18	x
	22485-01F	18	0.61 ± 0.31	74.84 ± 0.45	1037.90 ± 7.75	1107.52 ± 1.92	1105.63 ± 1.65	2050.2 ± 6.6	134.29	x
	22485-01G	20	0.96 ± 0.32	79.21 ± 0.45	1093.31 ± 5.18	1175.00 ± 1.54	1172.06 ± 1.20	2058.0 ± 6.1	135.14	x
	22485-01H	22	1.01 ± 0.30	73.51 ± 0.45	1011.71 ± 7.72	1082.20 ± 1.67	1079.17 ± 1.41	2051.8 ± 9.6	134.46	x
	22485-01I	24	1.15 ± 0.45	116.75 ± 0.61	1582.39 ± 8.12	1694.58 ± 2.02	1691.02 ± 1.47	2054.0 ± 6.5	134.70	x
	22485-01J	26	0.76 ± 0.51	131.40 ± 0.66	1809.79 ± 8.63	1932.19 ± 3.64	1929.87 ± 3.30	2051.4 ± 6.3	134.42	x
	22485-01K	28	0.53 ± 0.21	47.40 ± 0.38	666.33 ± 6.28	717.94 ± 0.98	716.36 ± 0.77	2061.4 ± 9.6	135.52	x
	22485-01L	30	0.52 ± 0.25	63.24 ± 0.40	858.07 ± 8.74	920.62 ± 1.60	919.05 ± 1.40	2057 ± 13	135.03	x
	22485-01M	32	0.37 ± 0.28	69.72 ± 0.47	960.86 ± 10.31	1022.71 ± 2.48	1021.58 ± 2.33	2048 ± 12	134.04	x
	22485-01N	35	0.37 ± 0.18	40.45 ± 0.33	576.62 ± 4.47	618.91 ± 0.88	617.79 ± 0.69	2057.2 ± 9.7	135.05	x
	22485-01O	35	0.12 ± 0.12	12.67 ± 0.24	185.35 ± 1.41	199.00 ± 0.67	198.64 ± 0.57	2057.6 ± 7.1	135.10	x

B06-055-02	22485-02A	1.5	1.07 ± 0.08	0.62 ± 0.09	6.21 ± 0.32	7.78 ± 0.32	4.73 ± 0.23	1663 ± 77	96.09	x
$J = 1.98616e-2$	22485-02B	3	2.44 ± 0.10	3.22 ± 0.14	34.97 ± 0.59	44.34 ± 0.40	37.38 ± 0.29	2054 ± 22	134.70	x
$\pm 3.84630e-5$	22485-02C	5	0.22 ± 0.13	11.19 ± 0.18	152.80 ± 1.12	164.62 ± 0.53	164.00 ± 0.38	2059.4 ± 8.2	135.30	x
	22485-02D	6	0.06 ± 0.09	12.18 ± 0.21	169.90 ± 1.20	181.57 ± 0.40	181.40 ± 0.30	2052.5 ± 7.6	134.54	x
	22485-02E	7	0.10 ± 0.11	14.72 ± 0.19	158.70 ± 0.99	170.58 ± 0.59	170.30 ± 0.50	2059.7 ± 7.1	135.33	x
	22485-02F	8	0.01 ± 0.10	15.99 ± 0.21	176.67 ± 1.15	188.98 ± 0.54	188.94 ± 0.40	2055.1 ± 7.1	134.82	x
	22485-02G	8.5	0.14 ± 0.14	12.31 ± 0.22	180.30 ± 2.76	192.20 ± 0.71	191.80 ± 0.58	2048 ± 19	134.04	x
	22485-02H	9	0.15 ± 0.13	9.70 ± 0.19	138.80 ± 1.43	148.43 ± 0.53	148.00 ± 0.39	2051 ± 12	134.37	x
	22485-02I	9.5	0.23 ± 0.11	9.61 ± 0.23	132.90 ± 0.88	143.05 ± 0.46	142.40 ± 0.34	2057.2 ± 7.4	135.05	x
	22485-02J	10	0.03 ± 0.08	9.81 ± 0.20	136.20 ± 0.92	145.98 ± 0.42	145.90 ± 0.35	2056.9 ± 7.7	135.02	x
	22485-02K	10.5	0.06 ± 0.08	8.58 ± 0.20	123.20 ± 0.89	131.99 ± 0.32	131.80 ± 0.24	2055.2 ± 8.1	134.83	x
	22485-02L	11	0.15 ± 0.08	7.89 ± 0.17	115.80 ± 0.79	124.14 ± 0.37	123.70 ± 0.28	2053.5 ± 7.7	134.65	x
	22485-02M	11.5	0.18 ± 0.09	8.10 ± 0.20	113.10 ± 0.93	121.30 ± 0.37	120.80 ± 0.27	2054.1 ± 9.5	134.71	x
	22485-02N	12	0.13 ± 0.08	6.61 ± 0.21	100.20 ± 0.84	107.86 ± 0.38	107.50 ± 0.30	2059 ± 10	135.25	x
	22485-02O	12.5	0.14 ± 0.08	7.73 ± 0.17	108.50 ± 0.88	116.39 ± 0.35	116.00 ± 0.26	2054.5 ± 9.4	134.76	x
	22485-02P	13	0.05 ± 0.08	9.20 ± 0.21	124.40 ± 0.94	133.04 ± 0.41	132.90 ± 0.34	2054.3 ± 8.8	134.74	x
	22485-02Q	13.5		7.10 ± 0.18	99.66 ± 0.79	106.52 ± 0.34	106.70 ± 0.26	2056.5 ± 9.3	134.98	x
	22485-02R	14	0.00 ± 0.13	10.95 ± 0.23	151.10 ± 1.00	161.40 ± 0.66	161.40 ± 0.55	2053.8 ± 8.1	134.68	x
	22485-02S	14.5	0.05 ± 0.08	7.87 ± 0.19	113.00 ± 1.32	120.64 ± 0.38	120.50 ± 0.30	2051 ± 14	134.37	x
	22485-02T	15	0.19 ± 0.09	9.63 ± 0.22	141.80 ± 0.91	152.53 ± 0.37	152.00 ± 0.27	2058.7 ± 7.0	135.22	x
	22485-02U	15.5	0.17 ± 0.08	7.70 ± 0.20	107.60 ± 0.80	116.27 ± 0.40	115.80 ± 0.33	2062.0 ± 8.8	135.58	x
	22485-02V	16	0.08 ± 0.08	9.88 ± 0.20	142.70 ± 1.59	153.02 ± 0.35	152.80 ± 0.26	2056 ± 13	134.92	x
	22485-02W	16.5	0.04 ± 0.08	3.76 ± 0.16	54.37 ± 0.68	58.78 ± 0.43	58.66 ± 0.36	2066 ± 17	136.02	x
	22485-02X	17	0.03 ± 0.08	6.53 ± 0.19	100.30 ± 1.24	107.69 ± 0.38	107.60 ± 0.31	2060 ± 15	135.36	x
	22485-02Y	17.5	0.10 ± 0.07	4.82 ± 0.16	70.60 ± 0.70	75.49 ± 0.37	75.20 ± 0.31	2050 ± 12	134.26	x
	22485-02Z	18	0.01 ± 0.08	4.79 ± 0.15	72.71 ± 0.68	77.48 ± 0.36	77.46 ± 0.29	2050 ± 12	134.26	x
	22485-02AA	18.5	0.20 ± 0.11	6.98 ± 0.17	99.87 ± 0.81	106.76 ± 0.45	106.20 ± 0.33	2048.0 ± 9.7	134.04	x
	22485-02AB	19	0.12 ± 0.13	4.67 ± 0.17	69.14 ± 0.97	74.32 ± 0.57	73.99 ± 0.42	2056 ± 18	134.92	x
	22485-02AC	19.5	0.13 ± 0.10	1.35 ± 0.10	22.25 ± 0.74	24.07 ± 0.41	23.70 ± 0.30	2050 ± 43	134.26	x

22485-02AD	18.5	0.16±0.09	1.06±0.10	14.21±0.32	15.68±0.39	15.21±0.28	2056±36	134.92	x	
22485-02AE	20	0.18±0.10	3.90±0.15	58.14±0.56	63.02±0.39	62.50±0.28	2061±12	135.47	x	
22485-02AF	20.5	0.10±0.10	0.86±0.09	13.93±1.13	14.68±0.41	14.40±0.29	2010±100	129.93	x	
22485-02AG	22	0.02±0.08	3.38±0.10	50.83±0.55	54.45±0.33	54.41±0.25	2056±14	134.92	x	
22485-02AH	24	0.01±0.07	1.69±0.10	22.37±0.46	23.92±0.31	23.89±0.22	2054±27	134.70	x	
22485-02AI	26	0.06±0.10	0.51±0.08	8.68±0.58	9.27±0.42	9.09±0.30	2030±91	132.08	x	
22485-02AJ	30	0.02±0.07	2.51±0.14	38.58±0.55	41.52±0.29	41.45±0.22	2061±18	135.47	x	
22485-02AK	33	0.02±0.07	0.55±0.08	7.41±0.62	7.52±0.29	7.45±0.21	1980±110	126.74	x	
B06-055_03	22485-04A	1.5	1.80±0.09	0.58±0.10	5.43±0.42	9.50±0.37	4.35±0.26	1720±110	101.21	
<i>J = 1.98616e-2</i>	22485-04B	3	4.43±0.17	1.74±0.11	14.72±0.66	28.50±0.69	15.82±0.50	2061±68	135.47	x
$\pm 3.84630e-5$	22485-04C	5	1.43±0.09	3.62±0.17	42.78±1.59	49.75±0.37	45.67±0.28	2053±46	134.59	x
	22485-04D	7	0.32±0.11	6.44±0.18	90.76±0.73	97.58±0.46	96.66±0.33	2045.0±9.8	133.72	x
	22485-04E	9	0.32±0.09	11.72±0.24	159.60±1.12	171.02±0.43	170.10±0.35	2051.3±7.8	134.41	x
	22485-04F	10	0.22±0.08	8.55±0.21	117.60±1.15	126.33±0.36	125.70±0.29	2054±12	134.70	x
	22485-04G	11	0.16±0.08	7.42±0.20	103.00±0.83	110.57±0.34	110.10±0.26	2054.3±9.3	134.74	x
	22485-04H	12	0.03±0.08	7.72±0.18	99.37±1.22	106.57±0.36	106.50±0.29	2058±15	135.14	x
	22485-04I	13	0.19±0.08	7.46±0.18	103.30±0.79	110.64±0.35	110.10±0.26	2050.4±8.7	134.31	x
	22485-04J	14	0.08±0.08	8.60±0.23	115.90±1.42	124.34±0.38	124.10±0.30	2057±15	135.03	x
	22485-04K	15	0.06±0.11	11.31±0.27	148.60±0.97	158.78±0.50	158.60±0.38	2052.5±7.2	134.54	x
	22485-04L	16	0.13±0.09	9.67±0.21	125.60±0.87	135.46±0.39	135.10±0.30	2062.0±7.7	135.58	x
	22485-04M	17	0.07±0.09	8.41±0.18	109.30±0.86	117.31±0.41	117.10±0.33	2057.4±9.2	135.08	x
	22485-04N	18	0.15±0.12	12.88±0.24	171.80±1.08	183.64±0.50	183.20±0.37	2051.3±6.6	134.41	x
	22485-04O	19	0.52±0.15	33.43±0.28	347.10±2.41	373.99±0.82	372.50±0.71	2059.3±7.4	135.29	x
	22485-04P	20	0.15±0.08	12.54±0.25	156.80±1.53	168.32±0.35	167.90±0.26	2057±11	135.03	x
	22485-04Q	21	0.11±0.08	9.35±0.26	131.70±0.95	141.92±0.38	141.60±0.30	2061.2±7.8	135.49	x
	22485-04R	22		3.92±0.15	56.73±0.67	61.30±0.30	61.43±0.22	2071±14	136.58	x
	22485-04S	23	0.03±0.07	5.88±0.16	76.87±0.69	82.23±0.30	82.16±0.23	2054±10	134.70	x
	22485-04T	24	0.13±0.08	6.77±0.17	92.48±0.66	99.62±0.32	99.24±0.24	2059.2±9.3	135.27	x

	22485-04U	25	0.11 ± 0.07	5.03 ± 0.16	67.76 ± 0.47	72.98 ± 0.34	72.66 ± 0.27	2058.5 ± 9.8	135.20	x
	22485-04V	27	0.10 ± 0.07	2.67 ± 0.13	38.45 ± 0.79	41.26 ± 0.30	40.97 ± 0.21	2050 ± 26	134.26	x
	22485-04W	29	0.09 ± 0.10	1.29 ± 0.10	15.14 ± 0.60	16.57 ± 0.42	16.32 ± 0.30	2064 ± 54	135.80	x
	22485-04X	31	0.03 ± 0.07	3.66 ± 0.15	47.82 ± 0.53	51.08 ± 0.32	50.98 ± 0.24	2051 ± 15	134.37	x
<u>B06-042_01</u>	22484-01A	7	13.86 ± 0.28	80.07 ± 0.58	608.09 ± 13.98	682.68 ± 1.18	649.43 ± 0.97	2052 ± 28	134.48	x
<u>$J = 1.98464e-2$</u>	22484-01B	10	0.45 ± 0.29	119.09 ± 0.60	978.95 ± 4.82	1051.07 ± 1.06	1050.02 ± 0.83	2057.8 ± 6.2	135.12	x
<u>$\pm 3.84784e-5$</u>	22484-01C	12	0.12 ± 0.24	96.11 ± 0.45	801.71 ± 5.17	858.24 ± 0.84	857.99 ± 0.68	2055.0 ± 8.0	134.81	x
	22484-01D	14	0.14 ± 0.25	103.31 ± 0.53	832.19 ± 8.44	891.41 ± 0.97	891.06 ± 0.70	2056 ± 13	134.92	x
	22484-01E	16	0.14 ± 0.29	125.85 ± 0.66	996.38 ± 5.53	1069.39 ± 1.15	1069.07 ± 0.93	2058.2 ± 7.0	135.16	x
	22484-01F	18	0.10 ± 0.28	115.64 ± 0.58	928.92 ± 5.17	995.24 ± 0.89	995.04 ± 0.70	2056.1 ± 7.0	134.93	x
	22484-01G	20	0.50 ± 0.35	151.16 ± 0.68	1210.54 ± 8.43	1299.81 ± 1.40	1298.64 ± 1.15	2058.0 ± 8.7	135.14	x
	22484-01H	22	0.36 ± 0.34	148.56 ± 0.66	1179.18 ± 5.17	1264.98 ± 1.21	1264.10 ± 0.88	2057.2 ± 5.6	135.05	x
	22484-01I	24	0.46 ± 0.44	194.56 ± 0.68	1548.21 ± 5.57	1655.62 ± 1.57	1654.46 ± 1.11	2053.3 ± 4.6	134.63	x
	22484-01J	26	0.55 ± 0.36	153.94 ± 0.71	1257.00 ± 5.54	1343.22 ± 2.35	1341.88 ± 2.17	2052.0 ± 5.9	134.48	x
	22484-01K	28	0.09 ± 0.19	55.55 ± 0.43	453.24 ± 7.67	480.74 ± 0.68	480.54 ± 0.53	2044 ± 21	133.61	x
	22484-01L	30	0.48 ± 0.26	109.73 ± 0.63	890.60 ± 8.42	948.89 ± 2.42	947.75 ± 2.34	2048 ± 12	134.04	x
	22484-01M	32	0.50 ± 0.18	71.41 ± 0.50	569.77 ± 8.10	610.30 ± 1.49	609.08 ± 1.42	2054 ± 18	134.70	x
	22484-01N	35	0.22 ± 0.13	23.13 ± 0.28	193.10 ± 0.89	207.83 ± 0.67	207.30 ± 0.59	2058.7 ± 6.7	135.22	x
	22484-01O	35	0.01 ± 0.09	2.13 ± 0.13	16.60 ± 0.37	17.50 ± 0.31	17.47 ± 0.22	2035 ± 32	132.63	x
<u>B06-042_02</u>	22484-02	1.5	1.16 ± 0.08	1.96 ± 0.11	11.40 ± 0.62	11.04 ± 0.32	7.90 ± 0.23	1561 ± 64	87.32	
<u>$J = 1.98464e-2$</u>	22484-03	3	4.53 ± 0.11	4.46 ± 0.16	29.53 ± 0.64	38.59 ± 0.44	26.35 ± 0.31	1839 ± 28	112.44	
<u>$\pm 3.84784e-5$</u>	22484-04	4	0.42 ± 0.08	3.94 ± 0.15	27.63 ± 0.72	30.49 ± 0.31	29.36 ± 0.23	2046 ± 33	133.83	x
	22484-05A	6	0.37 ± 0.08	12.36 ± 0.22	95.48 ± 1.23	103.59 ± 0.40	102.60 ± 0.33	2060 ± 15	135.36	x
	22484-05B	7.5	0.15 ± 0.08	14.18 ± 0.26	111.50 ± 2.06	120.00 ± 0.33	119.60 ± 0.25	2058 ± 22	135.14	x
	22484-05C	9	0.06 ± 0.08	17.32 ± 0.25	134.60 ± 1.67	144.36 ± 0.36	144.20 ± 0.28	2056 ± 14	134.92	x
	22484-05D	10	0.17 ± 0.08	15.38 ± 0.27	119.10 ± 1.34	129.25 ± 0.85	128.80 ± 0.82	2068 ± 14	136.25	x
	22484-05E	11	0.06 ± 0.08	14.80 ± 0.26	111.20 ± 0.94	119.46 ± 0.36	119.30 ± 0.29	2057.3 ± 8.6	135.06	x

	22484-05F	12	0.10 ± 0.08	13.98 ± 0.22	109.50 ± 1.33	118.08 ± 0.34	117.80 ± 0.26	2061 ± 14	135.47	x
	22484-05G	13	0.24 ± 0.10	14.66 ± 0.25	111.40 ± 1.30	119.85 ± 0.58	119.20 ± 0.52	2055 ± 14	134.81	x
	22484-05H	14	0.21 ± 0.10	16.19 ± 0.27	133.90 ± 1.83	143.07 ± 0.49	142.50 ± 0.41	2048 ± 16	134.04	x
	22484-05I	15	0.18 ± 0.10	18.15 ± 0.31	146.50 ± 1.83	157.39 ± 0.86	156.90 ± 0.81	2055 ± 15	134.81	x
	22484-05J	16	0.11 ± 0.10	26.75 ± 0.26	162.22 ± 1.34	174.90 ± 1.77	174.59 ± 1.75	2062 ± 15	135.58	x
	22484-05K	17	0.15 ± 0.10	10.85 ± 0.23	85.19 ± 0.80	91.13 ± 0.45	90.71 ± 0.36	2049 ± 11	134.15	x
	22484-05L	18	0.13 ± 0.08	12.44 ± 0.19	96.09 ± 0.89	102.66 ± 0.35	102.30 ± 0.28	2049 ± 10	134.15	x
	22484-05M	19	0.19 ± 0.08	10.13 ± 0.19	77.53 ± 1.16	83.83 ± 0.33	83.32 ± 0.24	2060 ± 18	135.36	x
	22484-05N	20	0.16 ± 0.08	11.54 ± 0.23	90.56 ± 0.91	97.33 ± 0.33	96.90 ± 0.25	2055 ± 11	134.81	x
	22484-05O	21	0.24 ± 0.08	2.43 ± 0.11	18.34 ± 0.73	20.34 ± 0.31	19.70 ± 0.23	2060 ± 51	135.36	x
	22484-05P	22	0.25 ± 0.09	13.97 ± 0.22	109.60 ± 1.40	117.96 ± 0.37	117.30 ± 0.27	2055 ± 14	134.81	x
	22484-05Q	23	0.14 ± 0.08	5.77 ± 0.19	49.79 ± 1.28	53.71 ± 0.32	53.34 ± 0.23	2056 ± 31	134.92	x
	22484-05R	24	0.08 ± 0.08	1.23 ± 0.10	10.18 ± 0.71	11.06 ± 0.31	10.84 ± 0.22	2048 ± 89	134.04	x
	22484-05S	26	0.03 ± 0.08	5.06 ± 0.17	40.59 ± 0.84	43.31 ± 0.31	43.24 ± 0.23	2050 ± 25	134.26	x
	22484-05T	28	0.12 ± 0.08	3.39 ± 0.12	28.66 ± 0.46	31.19 ± 0.30	30.87 ± 0.21	2063 ± 20	135.69	x
	22484-05U	30	0.04 ± 0.11	0.42 ± 0.10	2.34 ± 0.49	2.88 ± 0.41	2.79 ± 0.29	2200 ± 300	151.41	x
<u>B06-042_03</u>	22484-06A	1.5	0.50 ± 0.12	1.08 ± 0.11	11.19 ± 0.68	3.25 ± 0.54	1.66 ± 0.38	465 ± 97	18.66	
<u>$J = 1.98464e-2$</u>	22484-06B	3	1.02 ± 0.09	1.13 ± 0.11	10.60 ± 0.50	9.87 ± 0.42	6.61 ± 0.30	1453 ± 65	78.55	
<u>$\pm 3.84784e-5$</u>	22484-06C	5	1.79 ± 0.09	8.35 ± 0.19	69.32 ± 0.82	75.98 ± 0.42	70.24 ± 0.31	1989 ± 14	127.69	
	22484-06D	7	0.18 ± 0.09	14.72 ± 0.23	137.20 ± 1.62	147.58 ± 0.43	147.00 ± 0.32	2056 ± 13	134.92	x
	22484-06E	9	0.23 ± 0.12	24.70 ± 0.20	178.05 ± 1.74	192.65 ± 0.56	191.90 ± 0.42	2064 ± 10	135.80	x
	22484-06F	10	0.24 ± 0.09	18.02 ± 0.23	162.00 ± 1.17	175.07 ± 0.46	174.30 ± 0.34	2061.9 ± 7.8	135.57	x
	22484-06G	11	0.02 ± 0.09	14.83 ± 0.24	133.90 ± 1.54	142.77 ± 0.41	142.70 ± 0.30	2051 ± 13	134.37	x
	22484-06H	12	0.11 ± 0.09	14.43 ± 0.26	135.80 ± 1.44	144.74 ± 0.47	144.40 ± 0.38	2048 ± 13	134.04	x
	22484-06I	13	0.07 ± 0.09	16.06 ± 0.28	149.80 ± 0.99	160.72 ± 0.43	160.50 ± 0.32	2056.6 ± 7.0	134.99	x
	22484-06J	14	0.08 ± 0.09	14.13 ± 0.25	134.30 ± 0.95	143.54 ± 0.46	143.30 ± 0.37	2051.7 ± 7.9	134.45	x
	22484-06K	15	0.08 ± 0.08	12.41 ± 0.20	112.80 ± 0.84	121.37 ± 0.39	121.10 ± 0.28	2059.0 ± 8.3	135.25	x
	22484-06L	16		11.82 ± 0.22	109.30 ± 0.89	117.18 ± 0.39	117.20 ± 0.28	2057.5 ± 9.3	135.09	x

22484-06M	17	0.16±0.08	7.81±0.17	75.31±1.02	80.74±0.35	80.24±0.25	2050±16	134.26	x	
22484-06N	18	0.11±0.07	11.58±0.22	105.40±1.21	113.66±0.35	113.30±0.27	2061±14	135.47	x	
22484-06O	19	0.14±0.08	14.13±0.24	139.00±1.54	148.04±0.39	147.60±0.30	2045±13	133.72	x	
22484-06P	20	0.12±0.12	25.91±0.25	191.17±1.26	205.14±0.64	204.78±0.52	2056.1±7.1	134.93	x	
22484-06Q	21	0.16±0.07	4.98±0.15	45.66±0.61	49.52±0.35	48.99±0.26	2058±17	135.14	x	
22484-06R	22	0.11±0.07	8.35±0.21	83.03±0.77	88.71±0.35	88.35±0.25	2048±11	134.04	x	
22484-06S	23	0.07±0.08	12.45±0.25	121.50±1.38	130.41±0.38	130.20±0.28	2056±13	134.92	x	
22484-06T	24	0.17±0.07	6.98±0.18	67.76±0.72	72.88±0.34	72.33±0.24	2052±13	134.48	x	
22484-06U	25		3.25±0.14	30.46±0.74	32.44±0.46	32.97±0.33	2069±32	136.36	x	
22484-06V	27	0.01±0.08	1.22±0.10	11.19±0.34	12.14±0.35	12.11±0.25	2068±45	136.25	x	
22484-06W	29		1.86±0.12	18.62±0.40	19.33±0.34	19.80±0.24	2047±30	133.93	x	
22484-06X	31		1.97±0.11	19.39±0.40	21.14±0.34	21.40±0.25	2093±29	139.03	x	
B14-015_01	22487-01A	6	5.13±0.23	64.70±0.37	726.92±12.35	371.98±0.96	357.73±0.72	1232±15	62.18	
<i>J = 1.98979e-2</i>	22487-01B	8	2.83±0.19	33.95±0.30	467.01±9.75	313.98±0.83	306.13±0.63	1506±21	82.79	
$\pm 3.10646e-5$	22487-01C	9	1.52±0.15	19.93±0.26	261.30±1.04	211.92±0.99	207.70±0.90	1711.1±6.5	100.40	
	22487-01D	10	1.45±0.14	20.39±0.23	268.60±0.94	231.83±0.70	227.80±0.57	1783.6±4.9	107.12	
	22487-01E	11	0.98±0.14	18.18±0.24	242.00±0.90	229.13±0.67	226.40±0.55	1896.8±5.2	118.16	
	22487-01F	12	1.13±0.12	21.54±0.22	256.68±7.96	277.90±0.75	274.76±0.67	2059±38	135.25	x
	22487-01G	13	2.37±0.19	35.28±0.35	438.70±8.33	465.96±0.97	459.39±0.81	2032±23	132.30	x
	22487-01H	14	2.09±0.15	29.43±0.28	369.12±11.57	400.82±0.87	395.01±0.77	2058±39	135.14	x
	22487-01I	14.5	1.29±0.14	16.90±0.25	224.50±1.64	242.30±1.33	238.70±1.27	2050±11	134.26	x
	22487-01J	15	0.41±0.12	10.83±0.23	143.80±0.72	155.14±0.51	154.00±0.39	2059.0±6.9	135.25	x
	22487-01K	15.5	0.53±0.12	8.84±0.20	126.00±0.64	135.58±0.68	134.10±0.60	2051.6±8.2	134.44	x
	22487-01L	16	0.53±0.13	9.41±0.18	124.40±0.74	133.88±0.72	132.40±0.63	2051.1±9.3	134.38	x
	22487-01M	16.5	0.46±0.10	9.00±0.17	128.70±0.45	138.57±0.59	137.30±0.52	2054.3±6.3	134.74	x
	22487-01N	17	0.42±0.12	7.58±0.16	103.30±0.39	110.86±0.66	109.70±0.56	2049.7±7.7	134.23	x
	22487-01O	17.5	0.37±0.12	7.32±0.20	102.90±0.41	111.42±0.53	110.40±0.40	2060.7±6.6	135.44	x
	22487-01P	18	0.54±0.12	11.36±0.20	154.40±0.68	166.60±0.62	165.10±0.52	2057.2±6.6	135.05	x

	22487-01Q	18.5	0.64 ± 0.10	12.50 ± 0.22	175.80 ± 0.74	189.18 ± 0.52	187.40 ± 0.43	2054.0 ± 5.9	134.70	x
	22487-01R	19	1.38 ± 0.16	31.48 ± 0.28	463.15 ± 12.73	498.41 ± 0.73	494.57 ± 0.57	2056 ± 34	134.92	x
	22487-01S	20	0.95 ± 0.13	19.88 ± 0.23	303.30 ± 6.91	325.67 ± 0.95	323.03 ± 0.87	2052 ± 28	134.48	x
	22487-01T	21	0.29 ± 0.12	12.96 ± 0.25	197.00 ± 1.51	212.72 ± 1.53	211.90 ± 1.49	2064 ± 13	135.80	x
	22487-01U	22	0.29 ± 0.13	11.35 ± 0.23	181.30 ± 0.68	195.71 ± 0.86	194.90 ± 0.78	2063.7 ± 6.7	135.77	x
	22487-01V	23	0.38 ± 0.18	14.73 ± 0.24	221.00 ± 2.25	237.86 ± 0.78	236.80 ± 0.61	2060 ± 13	135.36	x
	22487-01W	23.5	0.55 ± 0.13	7.76 ± 0.18	138.70 ± 1.31	149.62 ± 0.76	148.10 ± 0.67	2055 ± 13	134.81	x
	22487-01X	24	0.20 ± 0.09	4.46 ± 0.14	75.79 ± 0.55	81.43 ± 0.43	80.88 ± 0.35	2055 ± 10	134.81	x
	22487-01Y	24.5	0.06 ± 0.12	3.32 ± 0.14	65.04 ± 0.89	70.57 ± 0.47	70.40 ± 0.34	2072 ± 18	136.69	x
	22487-01Z	25	0.24 ± 0.12	2.73 ± 0.13	50.91 ± 0.45	55.60 ± 0.47	54.94 ± 0.34	2069 ± 13	136.36	x
	22487-01AA	26	0.19 ± 0.11	1.54 ± 0.10	27.14 ± 0.26	29.56 ± 0.48	29.04 ± 0.35	2058 ± 19	135.14	x
	22487-01AB	28	0.32 ± 0.12	1.22 ± 0.11	18.44 ± 0.27	20.97 ± 0.46	20.08 ± 0.33	2080 ± 27	137.58	x
	22487-01AC	31	0.29 ± 0.12	5.67 ± 0.16	91.98 ± 0.58	104.60 ± 0.59	103.80 ± 0.49	2123.6 ± 9.7	142.50	
	22487-01AD	35	1.52 ± 0.13	3.68 ± 0.15	58.43 ± 0.43	69.01 ± 0.59	64.78 ± 0.45	2102 ± 13	140.05	
<u>B14-015_02</u>	22487-02A	1.5	0.23 ± 0.07	2.74 ± 0.12	24.87 ± 0.55	5.48 ± 0.25	4.92 ± 0.18	599 ± 22	25.00	
<u>$J = 1.98979e-2$</u>	22487-02B	3	2.07 ± 0.11	21.61 ± 0.25	254.70 ± 1.70	76.85 ± 0.43	71.87 ± 0.34	803.9 ± 4.5	35.64	
<u>$\pm 3.10646e-5$</u>	22487-02C	5	1.93 ± 0.11	23.06 ± 0.31	281.00 ± 1.69	185.04 ± 0.43	180.40 ± 0.33	1484.8 ± 4.4	81.08	
	22487-02D	7	2.16 ± 0.15	27.70 ± 0.24	263.45 ± 1.45	237.08 ± 0.55	231.91 ± 0.43	1826.0 ± 4.1	111.17	
	22487-02E	9	1.71 ± 0.14	22.48 ± 0.22	216.48 ± 1.27	206.65 ± 0.48	202.54 ± 0.35	1896.8 ± 4.7	118.16	
	22487-02F	10	1.13 ± 0.09	14.31 ± 0.21	165.70 ± 1.69	168.41 ± 0.37	165.70 ± 0.30	1976 ± 11	126.32	
	22487-02G	11	1.03 ± 0.13	14.88 ± 0.23	171.90 ± 1.90	172.48 ± 0.61	170.00 ± 0.52	1962 ± 13	124.85	
	22487-02H	12	1.05 ± 0.10	15.81 ± 0.28	182.80 ± 3.24	197.23 ± 0.58	194.70 ± 0.53	2052 ± 21	134.48	x
	22487-02I	13	0.99 ± 0.10	16.58 ± 0.28	191.20 ± 3.00	204.48 ± 0.45	202.10 ± 0.37	2044 ± 18	133.61	x
	22487-02J	14	0.98 ± 0.15	17.53 ± 0.22	201.70 ± 2.47	214.34 ± 0.60	212.00 ± 0.48	2036 ± 14	132.73	x
	22487-02K	15	1.01 ± 0.12	18.09 ± 0.22	168.00 ± 0.67	182.02 ± 0.47	179.60 ± 0.37	2056.8 ± 5.6	135.01	x
	22487-02L	16	0.59 ± 0.14	12.41 ± 0.25	160.60 ± 1.25	173.32 ± 0.54	171.90 ± 0.43	2057.8 ± 7.7	135.12	x
	22487-02M	17	0.50 ± 0.08	9.64 ± 0.24	127.40 ± 1.11	137.51 ± 0.32	136.30 ± 0.25	2058.4 ± 8.8	135.19	x
	22487-02N	18	0.59 ± 0.17	16.40 ± 0.19	166.31 ± 1.38	179.07 ± 0.77	177.66 ± 0.65	2056 ± 11	134.92	x

	22487-02O	19	0.26 ± 0.16	7.11 ± 0.18	96.87 ± 1.44	103.73 ± 0.55	103.10 ± 0.40	2051 ± 17	134.37	x
	22487-02P	20	0.23 ± 0.08	3.33 ± 0.14	48.17 ± 0.72	52.02 ± 0.45	51.47 ± 0.41	2056 ± 19	134.92	x
	22487-02Q	22	0.20 ± 0.07	2.69 ± 0.14	42.50 ± 0.80	46.02 ± 0.26	45.55 ± 0.20	2060 ± 24	135.36	x
	22487-02R	25	0.18 ± 0.06	1.01 ± 0.09	14.37 ± 0.43	15.78 ± 0.22	15.34 ± 0.16	2055 ± 38	134.81	x
	22487-02S	28	0.15 ± 0.07	0.57 ± 0.09	11.65 ± 0.30	12.80 ± 0.23	12.44 ± 0.16	2055 ± 35	134.81	x
	22487-02T	31	0.14 ± 0.07	1.82 ± 0.10	28.17 ± 0.37	30.42 ± 0.22	30.09 ± 0.16	2056 ± 18	134.92	x
<u>B14-015_03</u>	22487-03A	1.5	0.16 ± 0.09	2.33 ± 0.21	18.75 ± 0.43	3.52 ± 2.74	0.21 ± 1.94	40 ± 360	1.42	
<u>$J = 1.98979e-2$</u>	22487-03B	3	2.20 ± 0.15	29.78 ± 0.48	363.70 ± 3.47	111.50 ± 4.43	64.75 ± 3.13	547 ± 24	22.48	
<u>$\pm 3.10646e-5$</u>	22487-03C	5	2.44 ± 0.18	39.32 ± 0.24	430.14 ± 3.97	362.04 ± 5.58	310.08 ± 3.96	1605 ± 15	91.04	
	22487-03D	7	2.36 ± 0.20	47.45 ± 0.28	524.58 ± 4.83	526.34 ± 5.96	476.13 ± 4.26	1861 ± 12	114.60	
	22487-03E	9	3.06 ± 0.24	50.40 ± 0.28	710.68 ± 6.78	755.59 ± 7.33	690.53 ± 5.23	1941 ± 11	122.67	
	22487-03F	10	1.12 ± 0.19	35.64 ± 0.28	409.78 ± 4.61	455.02 ± 5.73	431.22 ± 4.07	2038 ± 15	132.95	x
	22487-03G	10.5	1.47 ± 0.22	54.52 ± 0.40	631.68 ± 6.05	697.42 ± 6.71	666.17 ± 4.88	2040 ± 11	133.17	x
	22487-03H	11	0.30 ± 0.09	11.47 ± 0.31	187.30 ± 3.73	204.42 ± 2.84	198.00 ± 2.01	2043 ± 26	133.50	x
	22487-03I	11.5	0.20 ± 0.08	9.51 ± 0.23	147.80 ± 2.83	161.70 ± 2.47	157.50 ± 1.75	2053 ± 25	134.59	x
	22487-03J	12	0.16 ± 0.09	9.91 ± 0.27	157.00 ± 6.48	168.32 ± 2.78	164.90 ± 1.98	2035 ± 52	134.59	x
	22487-03K	12.5	0.19 ± 0.09	9.40 ± 0.30	148.80 ± 2.77	164.70 ± 2.84	160.60 ± 2.01	2069 ± 26	136.36	x
	22487-03L	13	0.61 ± 0.11	9.40 ± 0.30	135.90 ± 1.52	156.30 ± 3.18	143.40 ± 2.25	2041 ± 22	133.28	x
	22487-03M	13.5	0.57 ± 0.11	8.61 ± 0.30	126.60 ± 2.61	146.74 ± 3.36	134.50 ± 2.38	2050 ± 32	134.26	x
	22487-03N	14	0.47 ± 0.10	8.69 ± 0.27	128.50 ± 1.42	147.21 ± 3.12	137.30 ± 2.22	2056 ± 22	134.92	x
	22487-03O	14.5	0.34 ± 0.11	8.24 ± 0.28	126.40 ± 1.82	144.40 ± 3.32	137.20 ± 2.35	2075 ± 26	137.02	x
	22487-03P	15	0.46 ± 0.11	8.50 ± 0.29	129.50 ± 1.80	147.97 ± 3.32	138.20 ± 2.35	2054 ± 25	134.70	x
	22487-03Q	15.5	0.42 ± 0.11	8.65 ± 0.30	140.20 ± 1.96	160.42 ± 3.26	151.40 ± 2.31	2069 ± 24	136.36	x
	22487-03R	16	0.25 ± 0.08	8.38 ± 0.25	130.00 ± 2.66	145.64 ± 2.51	140.40 ± 1.78	2070 ± 28	136.47	x
	22487-03S	16.5	0.24 ± 0.09	10.15 ± 0.30	154.80 ± 2.75	171.86 ± 2.71	166.80 ± 1.92	2067 ± 24	136.14	x
	22487-03T	17	0.26 ± 0.08	7.01 ± 0.25	109.70 ± 2.48	124.01 ± 2.32	118.40 ± 1.64	2069 ± 31	136.36	x
	22487-03U	17.5	0.08 ± 0.09	8.62 ± 0.25	141.60 ± 2.82	153.76 ± 2.80	152.10 ± 1.98	2062 ± 28	135.58	x
	22487-03V	18	0.05 ± 0.09	9.13 ± 0.28	144.50 ± 2.52	158.64 ± 2.81	157.60 ± 1.99	2081 ± 25	137.69	x

	22487-03W	18.5	0.07 ± 0.10	10.09 ± 0.30	169.00 ± 2.89	182.83 ± 2.90	181.40 ± 2.05	2062 ± 23	135.58	x
	22487-03X	19	0.42 ± 0.09	10.05 ± 0.30	156.90 ± 2.08	177.29 ± 2.82	168.30 ± 2.00	2061 ± 20	135.47	x
	22487-03Y	19.5	0.36 ± 0.09	8.30 ± 0.24	129.10 ± 2.72	143.74 ± 2.71	136.00 ± 1.92	2039 ± 30	133.06	x
	22487-03Z	20	0.25 ± 0.08	6.02 ± 0.25	93.69 ± 1.14	105.00 ± 2.57	99.71 ± 1.83	2051 ± 25	134.37	x
	22487-04A	20.5	0.08 ± 0.08	6.55 ± 0.23	104.60 ± 1.56	114.84 ± 2.43	113.10 ± 1.72	2071 ± 24	136.58	x
	22487-04B	21	0.16 ± 0.08	6.07 ± 0.22	93.23 ± 1.48	103.57 ± 2.30	100.10 ± 1.64	2063 ± 26	135.69	x
	22487-04C	21.5	0.11 ± 0.08	5.46 ± 0.22	84.80 ± 2.20	93.57 ± 2.40	91.12 ± 1.70	2063 ± 38	135.69	x
	22487-04D	22	0.30 ± 0.08	8.93 ± 0.23	134.80 ± 1.73	150.69 ± 2.46	144.30 ± 1.74	2058 ± 19	135.14	x
	22487-04E	23	0.30 ± 0.09	9.26 ± 0.26	149.90 ± 1.60	168.61 ± 2.58	162.30 ± 1.83	2072 ± 16	136.69	x
	22487-04F	24	0.18 ± 0.08	5.88 ± 0.24	95.98 ± 1.11	107.56 ± 2.46	103.70 ± 1.74	2069 ± 23	136.36	x
	22487-04G	25	0.04 ± 0.08	3.84 ± 0.20	64.81 ± 1.82	69.51 ± 2.31	68.65 ± 1.64	2046 ± 44	133.83	x
	22487-04H	26	0.05 ± 0.08	2.57 ± 0.18	39.90 ± 0.66	43.94 ± 2.27	42.89 ± 1.61	2064 ± 49	135.80	x
	22487-04I	27	0.06 ± 0.10	1.39 ± 0.22	19.90 ± 1.27	21.68 ± 3.12	20.36 ± 2.21	2000 ± 150	128.86	x
	22487-04J	28	0.15 ± 0.07	2.14 ± 0.19	31.85 ± 0.80	38.47 ± 2.23	35.32 ± 1.58	2102 ± 64	140.05	x
	22487-04K	29	0.18 ± 0.07	0.53 ± 0.16	5.32 ± 0.99	9.99 ± 2.21	6.14 ± 1.56	2150 ± 400	145.53	x
	22487-04L	31	0.13 ± 0.07	1.13 ± 0.16	16.65 ± 0.99	20.92 ± 2.08	18.14 ± 1.47	2080 ± 120	137.58	x
<u>B14-024_01</u>	22489-01A	7	1.56 ± 0.12	12.50 ± 0.27	105.70 ± 1.99	83.27 ± 0.82	78.81 ± 0.74	1639 ± 22	93.98	
<u>$J = 1.98570e-2$</u>	22489-01B	10	0.73 ± 0.19	24.48 ± 0.25	296.75 ± 1.86	319.34 ± 1.34	317.26 ± 1.23	2054.3 ± 9.1	134.74	x
<u>$\pm 3.99183e-5$</u>	22489-01C	12	0.19 ± 0.14	17.65 ± 0.23	235.91 ± 4.02	253.22 ± 0.61	252.69 ± 0.46	2057 ± 21	135.03	x
	22489-01D	14	0.10 ± 0.11	15.98 ± 0.20	221.69 ± 2.56	238.52 ± 0.54	238.21 ± 0.43	2060 ± 14	135.36	x
	22489-01E	16	0.44 ± 0.10	11.59 ± 0.20	149.69 ± 2.38	160.26 ± 0.50	158.99 ± 0.41	2046 ± 20	133.83	x
	22489-01F	18		5.87 ± 0.12	89.89 ± 2.51	95.69 ± 0.80	95.93 ± 0.73	2052 ± 36	134.48	x
	22489-01G	22	0.49 ± 0.15	9.98 ± 0.22	133.30 ± 1.02	144.10 ± 1.60	142.70 ± 1.54	2056 ± 15	134.92	x
	22489-01H	25		3.92 ± 0.16	58.05 ± 1.10	60.96 ± 0.50	61.94 ± 0.38	2052 ± 24	134.48	x
	22489-01I	30	0.48 ± 0.11	4.92 ± 0.17	64.26 ± 0.39	70.00 ± 0.50	68.62 ± 0.38	2053.0 ± 8.9	134.59	x
	22489-01J	35	1.32 ± 0.12	3.16 ± 0.14	38.43 ± 0.28	44.89 ± 0.63	41.12 ± 0.54	2055 ± 18	134.81	x
<u>B14-024_02</u>	22489-02A	1.5	0.05 ± 0.11	0.01 ± 0.15		0.14 ± 1.77	-0.49 ± 1.25	3900 ± 7900	487.89	

$J = 1.98570\text{e-}2$	22489-02B	3	0.35 ± 0.08	0.40 ± 0.13	1.37 ± 0.51	0.83 ± 1.36	N/A	
$\pm 3.99183\text{e-}5$	22489-02C	5	0.65 ± 0.10	5.83 ± 0.20	53.01 ± 0.62	7.57 ± 1.55	0.17 ± 1.10	11 ± 74
	22489-02D	7	2.45 ± 0.11	10.07 ± 0.24	117.30 ± 0.99	96.38 ± 1.80	68.47 ± 1.28	1389 ± 20
	22489-02E	8	0.23 ± 0.15	6.32 ± 0.25	75.70 ± 0.71	82.65 ± 2.37	80.08 ± 1.68	2041 ± 27
	22489-02F	9	0.41 ± 0.10	6.10 ± 0.22	72.56 ± 0.78	82.35 ± 1.67	77.65 ± 1.18	2056 ± 22
	22489-02G	10	0.43 ± 0.10	6.16 ± 0.24	76.15 ± 0.79	86.58 ± 1.61	81.68 ± 1.15	2059 ± 21
	22489-02H	11	0.59 ± 0.23	5.58 ± 0.30	70.04 ± 0.73	81.97 ± 3.76	75.23 ± 2.66	2060 ± 45
	22489-02I	12	0.47 ± 0.23	5.63 ± 0.28	70.93 ± 0.75	81.82 ± 3.63	76.50 ± 2.57	2065 ± 43
	22489-02J	13	0.33 ± 0.14	4.68 ± 0.21	59.86 ± 1.07	67.84 ± 2.29	64.11 ± 1.63	2057 ± 38
	22489-02K	14	0.55 ± 0.25	14.17 ± 0.38	198.20 ± 3.26	218.41 ± 4.11	212.10 ± 2.91	2055 ± 26
	22489-02L	15	0.10 ± 0.10	4.01 ± 0.19	59.61 ± 1.03	65.89 ± 1.58	64.78 ± 1.12	2075 ± 29
	22489-02M	16	0.22 ± 0.20	1.63 ± 0.25	23.46 ± 0.53	26.44 ± 3.29	23.89 ± 2.32	2000 ± 120
	22489-02N	17	0.40 ± 0.12	0.93 ± 0.16	9.46 ± 0.75	15.09 ± 1.87	10.58 ± 1.32	2110 ± 180
	22489-02O	18	0.29 ± 0.11	1.09 ± 0.16	16.58 ± 0.57	20.38 ± 1.84	17.12 ± 1.30	2010 ± 100
	22489-02P	19	0.17 ± 0.15	0.77 ± 0.19	11.58 ± 0.35	13.38 ± 2.35	11.41 ± 1.66	1960 ± 180
	22489-02Q	21	0.10 ± 0.13	0.91 ± 0.17	14.19 ± 0.37	16.47 ± 2.04	15.38 ± 1.45	2070 ± 120
	22489-02R	23	0.17 ± 0.08	0.16 ± 0.13	2.54 ± 0.87	5.03 ± 1.33	3.09 ± 0.94	2220 ± 590
	22489-02S	25	0.19 ± 0.08	0.02 ± 0.12		1.43 ± 1.30	-0.73 ± 0.92	5200 ± 9100
	22489-02T	27	0.04 ± 0.09	0.22 ± 0.13	3.50 ± 0.55	4.33 ± 1.43	3.82 ± 1.01	2080 ± 380
	22489-02U	29	0.03 ± 0.08	0.07 ± 0.12		0.05 ± 1.30	-0.25 ± 0.92	4000 ± 14000
	22489-02V	33		0.13 ± 0.16	1.45 ± 0.39	1.50 ± 2.00	2.64 ± 1.42	2760 ± 850
B14-045_01	22490-02A	3	0.50 ± 0.09	3.35 ± 0.13	45.23 ± 0.42	25.32 ± 0.55	23.16 ± 0.39	1266 ± 18
$J = 1.98722\text{e-}2$	22490-02B	5	0.45 ± 0.10	10.43 ± 0.19	162.40 ± 0.69	124.76 ± 0.62	122.80 ± 0.44	1654.5 ± 6.2
$\pm 2.50624\text{e-}5$	22490-02C	6.5		14.44 ± 0.24	206.30 ± 1.00	211.15 ± 0.75	211.20 ± 0.54	2002.8 ± 6.8
	22490-02D	7	0.15 ± 0.09	13.00 ± 0.20	180.30 ± 0.76	193.17 ± 0.53	192.50 ± 0.38	2053.2 ± 5.9
	22490-02E	7.5		11.68 ± 0.19	165.10 ± 1.25	177.33 ± 0.51	177.40 ± 0.37	2061.5 ± 9.8
	22490-02F	8	0.05 ± 0.08	10.83 ± 0.18	152.20 ± 1.14	163.50 ± 0.52	163.30 ± 0.38	2059.8 ± 9.7
	22490-02G	11	0.07 ± 0.16	33.80 ± 0.29	500.94 ± 6.09	532.46 ± 1.07	532.14 ± 0.75	2048 ± 15
								134.04 ± 0.04

	22490-02H	13	0.18±0.16	31.40±0.26	467.89±4.88	499.58±0.97	498.83±0.70	2052±13	134.48	x
	22490-02I	13.5		15.26±0.20	212.40±0.91	223.48±0.84	225.40±0.65	2046.0±6.5	133.83	x
	22490-02J	14		9.81±0.17	150.80±1.06	160.66±0.59	160.90±0.44	2053.1±9.4	134.60	x
	22490-02K	14.5	0.01±0.09	7.06±0.16	105.60±1.04	113.23±0.58	113.20±0.42	2058±13	135.14	x
	22490-02L	15	0.13±0.09	6.30±0.17	92.66±0.91	99.71±0.54	99.14±0.38	2056±13	134.92	x
	22490-02M	16	0.24±0.07	6.99±0.16	99.01±0.83	106.53±0.48	105.50±0.36	2052±11	134.48	x
	22490-02N	17.5	0.29±0.07	6.60±0.15	100.20±0.62	108.45±0.47	107.20±0.34	2056.9±8.6	135.02	x
	22490-02O	20.5	0.07±0.11	17.54±0.23	233.82±5.63	252.25±0.71	251.92±0.50	2065±30	135.91	x
	22490-02P	22.5	0.39±0.13	22.03±0.23	317.25±6.39	340.65±0.80	338.95±0.57	2055±25	134.81	x
	22490-02Q	23.5	0.45±0.09	9.03±0.17	132.10±0.43	143.26±0.56	141.30±0.41	2055.6±5.5	134.88	x
	22490-02R	24.5		4.91±0.16	73.63±0.35	78.64±0.60	78.95±0.44	2059.0±9.1	135.25	x
	22490-02S	26		4.82±0.14	73.23±0.69	77.15±0.49	78.89±0.35	2065±13	135.91	x
	22490-02T	29		5.23±0.15	79.55±0.65	83.87±0.49	85.59±0.36	2063±11	135.69	x
	22490-02U	32	0.03±0.08	6.58±0.16	92.16±0.41	98.72±0.53	98.59±0.39	2056.2±7.5	134.94	x
	22490-02V	35		0.80±0.10	10.71±0.24	12.07±0.57	13.34±0.40	2248±48	157.20	
<u>B14-045_02</u>	22490-03A	1.5	0.77±0.09	1.43±0.23	10.68±0.47	2.86±3.30		N/A		
<u>J = 1.98722e-2</u>	22490-03B	3	3.32±0.11	10.04±0.32	115.70±1.22	25.32±3.96		N/A		
<u>± 2.50624e-5</u>	22490-03C	5	4.67±0.21	12.97±0.54	184.60±1.79	132.70±7.63	12.60±5.40	229±96	8.59	
	22490-03D	7	2.59±0.18	0.00±0.00	327.84±3.66	336.44±6.55	269.76±4.67	1748±22	103.78	
	22490-03E	9	1.36±0.15	0.00±0.00	337.88±5.25	362.97±5.55	328.05±3.93	1939±22	122.46	
	22490-03F	11	0.78±0.18	0.00±0.00	355.35±3.72	388.04±6.66	367.90±4.77	2016±18	130.57	x
	22490-03G	12	0.55±0.12	14.91±0.37	227.30±2.81	253.35±4.30	239.30±3.05	2037±19	132.84	x
	22490-03H	12.5	0.39±0.11	10.13±0.33	149.20±1.62	170.32±3.94	160.30±2.79	2061±23	135.47	x
	22490-03I	13	0.37±0.10	7.40±0.31	113.00±1.27	130.91±3.69	121.40±2.62	2061±28	135.47	x
	22490-03J	14	0.35±0.09	8.28±0.29	131.60±1.93	152.91±3.10	144.00±2.20	2083±24	137.91	x
	22490-03K	14.5	0.29±0.08	6.69±0.28	102.40±1.15	116.09±2.91	108.70±2.06	2047±25	133.93	x
	22490-03L	15	0.25±0.08	5.43±0.23	88.40±1.11	101.07±2.87	94.56±2.03	2056±29	134.92	x
	22490-03M	15.5	0.11±0.07	5.18±0.23	77.71±0.95	88.32±2.72	85.54±1.93	2091±30	138.81	x

22490-03N	16	0.15±0.07	4.60±0.23	69.38±0.90	78.04±2.62	74.14±1.85	2055±33	134.81	x	
22490-03O	17	0.06±0.07	2.91±0.20	43.71±0.66	48.26±2.64	46.68±1.87	2054±51	134.70	x	
22490-03P	19	0.17±0.08	6.74±0.24	98.35±1.00	112.08±3.00	107.60±2.12	2083±26	137.91	x	
22490-03Q	21	0.19±0.07	6.97±0.26	107.30±1.23	121.34±2.73	116.40±1.93	2074±23	136.91	x	
22490-03R	23	0.17±0.08	7.62±0.26	122.60±1.19	137.27±3.01	132.90±2.13	2072±21	136.69	x	
22490-03S	25	0.20±0.09	6.88±0.27	121.60±1.19	134.14±3.12	129.10±2.21	2047±22	133.93	x	
22490-03T	27	0.08±0.07	1.09±0.20	18.17±0.41	20.49±2.57	18.54±1.82	2000±120	128.86	x	
22490-03U	29	0.06±0.11	0.37±0.26	4.58±0.48	6.16±3.88	4.66±2.75	2000±720	128.86	x	
22490-03V	31	0.19±0.07	2.24±0.20	33.20±0.53	38.25±2.61	33.37±1.85	1980±69	126.74	x	
22490-03W	33	0.14±0.06	0.41±0.17	5.65±0.48	6.00±2.36	2.33±1.67	1080±590	52.03	x	
 B14-045_03 <i>J = 1.98722e-2 ± 2.50624e-5</i>	22490-04A	1.5	0.23±0.07	0.03±0.06	0.25±0.23	0.97±0.37	0.13±0.26	1300±2000	67.01	
	22490-04B	3	10.60±0.13	11.36±0.27	102.20±0.73	45.60±0.68	6.36±0.48	210±17	7.84	
	22490-04C	5	12.01±0.26	24.44±0.24	370.70±2.55	379.44±1.57	335.00±1.24	1855.0±8.3	114.00	
	22490-04D	6	0.70±0.14	15.60±0.24	267.60±2.89	287.20±0.82	284.60±0.63	2049±13	134.15	x
	22490-04E	6.5	0.43±0.14	8.48±0.18	142.20±0.98	153.10±0.77	151.50±0.58	2051.0±8.6	134.37	x
	22490-04F	7	0.39±0.10	8.17±0.19	127.60±0.97	137.43±0.56	136.00±0.42	2051.1±9.0	134.38	x
	22490-04G	7.5	0.30±0.08	6.46±0.19	107.00±0.83	114.90±0.54	113.80±0.44	2049.6±9.7	134.22	x
	22490-04H	8	0.25±0.08	6.10±0.17	101.40±0.80	109.13±0.50	108.20±0.40	2053.1±9.7	134.60	x
	22490-04I	8.5	0.20±0.07	5.68±0.18	91.87±0.74	98.57±0.39	97.83±0.28	2050.5±9.5	134.32	x
	22490-04J	9	0.20±0.07	4.85±0.16	80.07±0.76	86.32±0.38	85.57±0.28	2055±11	134.81	x
	22490-04K	10	0.23±0.08	6.73±0.22	111.70±0.83	120.36±0.57	119.50±0.47	2055.5±9.3	134.87	x
	22490-04L	11	0.28±0.08	7.65±0.22	120.60±0.91	130.35±0.46	129.30±0.33	2058.2±8.7	135.16	x
	22490-04M	12	0.40±0.08	8.02±0.20	123.50±1.42	133.36±0.44	131.90±0.33	2054±14	134.70	x
	22490-04N	13	0.43±0.08	8.50±0.19	134.80±0.93	145.69±0.43	144.10±0.31	2054.8±7.7	134.79	x
	22490-04O	14	0.37±0.09	8.86±0.20	143.30±0.74	154.18±0.49	152.80±0.36	2051.9±5.4	134.47	x
	22490-04P	15	0.39±0.11	9.86±0.22	158.80±1.54	170.76±0.62	169.30±0.46	2052±12	134.48	x
	22490-04Q	16	0.34±0.11	7.19±0.17	124.90±0.66	134.84±0.66	133.60±0.52	2056.0±6.8	134.92	x
	22490-04R	17	0.30±0.10	4.82±0.18	78.56±1.14	84.91±0.58	83.81±0.43	2053±18	134.59	x

	22490-04S	18	0.21 ± 0.08	5.03 ± 0.17	87.45 ± 0.68	95.03 ± 0.42	94.27 ± 0.31	2065.6 ± 9.4	135.98	x
	22490-04T	19	0.03 ± 0.07	4.59 ± 0.16	79.53 ± 0.73	84.88 ± 0.38	84.76 ± 0.28	2051 ± 11	134.37	x
	22490-04U	20		1.10 ± 0.10	18.47 ± 0.38	19.77 ± 0.35	19.82 ± 0.25	2060 ± 29	135.36	x
	22490-04V	23	0.03 ± 0.07	0.89 ± 0.08	13.35 ± 0.38	14.39 ± 0.36	14.26 ± 0.26	2054 ± 41	134.70	x
	22490-04W	26	0.12 ± 0.07	0.19 ± 0.07	3.24 ± 0.26	3.99 ± 0.37	3.56 ± 0.27	2090 ± 140	138.70	x
	22490-04X	29	0.11 ± 0.07	0.03 ± 0.07	1.25 ± 0.25	1.59 ± 0.37	1.18 ± 0.27	1910 ± 350	119.50	x
	22490-04Y	32	0.24 ± 0.07	1.89 ± 0.11	32.65 ± 0.44	35.61 ± 0.39	34.72 ± 0.29	2049 ± 19	134.15	x
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B14-049_01	22488-01A	7	3.75 ± 0.24	68.09 ± 0.48	772.06 ± 9.94	762.30 ± 1.04	751.78 ± 0.80	1943 ± 15	122.88	
$J = 1.98827e-2$	22488-01B	8	0.66 ± 0.14	18.18 ± 0.25	233.20 ± 3.40	238.45 ± 0.82	236.60 ± 0.73	1992.5 ± 8.4	128.06	
$\pm 2.50624e-5$	22488-01C	10	0.89 ± 0.15	34.10 ± 0.32	402.15 ± 5.89	430.93 ± 0.63	428.43 ± 0.48	2052 ± 18	134.48	x
	22488-01D	12	0.49 ± 0.21	40.38 ± 0.36	631.56 ± 6.73	674.33 ± 1.19	672.98 ± 1.04	2052 ± 13	134.48	x
	22488-01E	14	0.80 ± 0.23	47.50 ± 0.32	768.29 ± 10.32	827.79 ± 1.20	825.56 ± 1.00	2062 ± 17	135.58	x
	22488-01F	16	1.68 ± 0.24	43.63 ± 0.39	695.83 ± 7.18	748.45 ± 0.98	743.74 ± 0.72	2056 ± 13	134.92	x
	22488-01G	18	1.33 ± 0.18	35.80 ± 0.39	548.10 ± 6.25	587.08 ± 0.77	583.38 ± 0.58	2050 ± 14	134.26	x
	22488-01H	20	1.45 ± 0.14	28.23 ± 0.27	355.87 ± 4.67	383.84 ± 0.66	379.81 ± 0.53	2054 ± 16	134.70	x
	22488-01I	23	1.83 ± 0.13	25.58 ± 0.29	325.10 ± 4.67	352.81 ± 0.63	347.70 ± 0.51	2056 ± 18	134.92	x
	22488-01J	26	5.13 ± 0.11	5.95 ± 0.17	67.00 ± 1.31	76.82 ± 0.47	62.46 ± 0.35	1892 ± 20	117.68	
	22488-01K	30	1.31 ± 0.13	2.24 ± 0.11	25.08 ± 0.52	27.51 ± 0.50	23.84 ± 0.35	1915 ± 26	120.01	
	22488-01L	35	0.87 ± 0.10	1.17 ± 0.09	10.81 ± 0.49	13.26 ± 0.39	10.83 ± 0.28	1976 ± 61	126.32	
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B14-049_02	22488-02A	1.5	0.70 ± 0.13	0.17 ± 0.10	0.43 ± 0.38	2.47 ± 0.51	0.61 ± 0.36	2400 ± 1400	176.60	
$J = 1.98827e-2$	22488-02B	3	0.08 ± 0.13	0.01 ± 0.10	0.51 ± 0.38	0.48 ± 0.49	0.25 ± 0.35	1200 ± 1400	59.97	
$\pm 2.50624e-5$	22488-02C	5	0.14 ± 0.09	0.01 ± 0.10	0.56 ± 0.37	0.62 ± 0.34	0.26 ± 0.24	1170 ± 980	57.93	
	22488-02D	7	0.26 ± 0.09	0.10 ± 0.10	1.10 ± 0.25	0.29 ± 0.34		N/A		
	22488-02E	1.5				0.23 ± 0.31	0.59 ± 0.22	N/A		
	22488-02F	3				0.19 ± 0.31	0.36 ± 0.22	N/A		
	22488-02G	7		0.16 ± 0.10	0.22 ± 0.41	0.15 ± 0.34	0.44 ± 0.24	2900 ± 2800	253.27	
	22488-02H	9	0.62 ± 0.13	2.11 ± 0.15	15.92 ± 0.40	3.21 ± 0.48	1.57 ± 0.34	322 ± 65	12.40	

22488-02I	11	0.85±0.17	12.39±0.23	125.10±0.79	110.07±0.65	107.80±0.46	1800.3±8.4	108.68		
22488-02J	12	0.40±0.13	11.03±0.22	118.90±0.78	128.17±0.50	127.10±0.36	2056.1±8.5	134.93	x	
22488-02K	13		7.29±0.20	84.38±1.25	89.89±0.38	90.12±0.28	2055±18	134.81	x	
22488-02L	14	0.22±0.10	6.31±0.20	73.67±0.96	79.44±0.39	78.86±0.28	2058±16	135.14	x	
22488-02M	16	0.13±0.11	11.81±0.24	129.20±0.85	139.35±0.44	139.00±0.32	2064.3±8.2	135.84	x	
22488-02N	18	0.24±0.11	13.69±0.28	158.50±1.55	170.25±0.49	169.60±0.39	2057±12	135.03	x	
22488-02O	19	0.22±0.10	6.98±0.22	86.90±1.08	93.53±0.39	92.94±0.28	2056±16	134.92	x	
22488-02P	20	0.24±0.10	5.43±0.17	66.61±0.63	71.97±0.38	71.34±0.28	2058±12	135.14	x	
22488-02Q	21	0.28±0.11	11.64±0.26	145.10±0.60	156.06±0.45	155.30±0.34	2057.5±5.2	135.09	x	
22488-02R	22	0.19±0.09	4.31±0.16	51.41±0.58	54.67±0.37	54.16±0.27	2038±15	132.95	x	
22488-02S	23	0.15±0.10	4.05±0.14	54.80±0.60	58.74±0.40	58.33±0.29	2051±15	134.37	x	
22488-02T	24	0.26±0.09	4.46±0.16	56.33±0.55	60.79±0.35	60.10±0.25	2053±13	134.59	x	
22488-02U	25	0.00±0.10	2.85±0.14	34.41±0.49	36.54±0.38	36.53±0.27	2047±19	133.93	x	
22488-02V	26	0.07±0.09	1.01±0.11	10.74±0.34	11.86±0.35	11.67±0.25	2076±47	137.13	x	
22488-02W	27	0.12±0.09	2.52±0.14	32.88±0.47	35.26±0.35	34.95±0.25	2049±20	134.15	x	
22488-02X	29	0.07±0.08	0.47±0.11	8.20±0.41	8.19±0.31	8.01±0.22	1946±68	123.19	x	
22488-02Y	31	0.18±0.08	0.53±0.11	7.35±0.57	8.12±0.31	7.64±0.22	2020±100	131.00	x	
22488-02Z	33	0.24±0.08	0.43±0.11	4.95±0.43	6.11±0.32	5.49±0.23	2100±120	139.82	x	
 <u>B14-049_03</u>	 22488-03A	 1.5	 0.29±0.08	 0.67±0.11	 4.80±0.23	 0.93±0.67	 -0.83±0.47	 N/A		
<u>J = 1.98827e-2</u>	22488-03B	3	0.61±0.09	8.28±0.19	63.40±0.46	10.78±0.75	7.09±0.53	362±25	14.10	
<u>± 2.50624e-5</u>	22488-03C	5	1.56±0.15	33.08±0.34	317.80±1.10	221.85±1.32	212.50±0.95	1525.7±6.0	84.39	
	22488-03D	7	6.27±0.52	50.13±0.30	436.89±2.14	449.45±4.49	411.88±3.21	1905±11	118.99	
	22488-03E	9	0.77±0.22	50.86±0.34	512.33±2.17	556.14±1.94	551.52±1.40	2064.5±6.2	135.86	
	22488-03F	10	0.26±0.17	28.30±0.25	303.91±2.09	338.62±1.42	337.06±1.01	2101.3±9.4	139.97	
	22488-03G	11	0.34±0.13	24.65±0.29	252.30±2.75	292.67±1.21	290.60±0.93	2148±14	145.30	
	22488-03H	12	0.19±0.19	27.73±0.28	294.60±2.09	333.84±1.60	332.70±1.15	2123.6±9.9	142.50	
	22488-03I	12.5	0.19±0.14	16.85±0.30	178.80±0.89	205.36±1.17	204.20±0.84	2137.5±8.1	144.09	
	22488-03J	13	0.43±0.14	13.88±0.29	148.00±1.60	162.96±1.16	160.40±0.83	2073±15	136.80	x

	22488-03K	13.5	0.33 ± 0.14	11.75 ± 0.24	128.80 ± 1.06	141.58 ± 1.18	139.60 ± 0.84	2073 ± 13	136.80	x
	22488-03L	14	0.26 ± 0.10	9.23 ± 0.24	106.80 ± 1.23	115.73 ± 0.87	114.20 ± 0.62	2055 ± 16	134.81	x
	22488-03M	14.5	0.32 ± 0.09	7.26 ± 0.22	87.62 ± 1.44	94.65 ± 0.77	92.71 ± 0.55	2043 ± 21	133.50	x
	22488-03N	15	0.25 ± 0.10	7.01 ± 0.21	81.20 ± 0.64	87.75 ± 0.82	86.24 ± 0.58	2047 ± 13	133.93	x
	22488-03O	15.5	0.13 ± 0.09	5.02 ± 0.17	63.53 ± 0.61	68.35 ± 0.80	67.54 ± 0.57	2049 ± 16	134.15	x
	22488-03P	16	0.06 ± 0.10	5.48 ± 0.19	73.23 ± 1.13	77.81 ± 0.85	77.47 ± 0.60	2043 ± 21	133.50	x
	22488-03Q	17	0.12 ± 0.10	3.37 ± 0.17	45.50 ± 0.57	48.58 ± 0.81	47.84 ± 0.57	2036 ± 21	132.73	x
	22488-03R	18	0.17 ± 0.10	5.83 ± 0.18	72.77 ± 0.56	78.57 ± 0.82	77.53 ± 0.58	2052 ± 13	134.48	x
	22488-03S	19	0.15 ± 0.09	4.90 ± 0.19	57.52 ± 0.53	61.91 ± 0.77	61.03 ± 0.54	2047 ± 16	133.93	x
	22488-03T	20	0.12 ± 0.09	2.23 ± 0.17	31.70 ± 0.45	34.08 ± 0.79	33.33 ± 0.56	2035 ± 27	132.63	x
	22488-03U	22	0.09 ± 0.08	2.78 ± 0.15	35.94 ± 0.40	38.66 ± 0.69	38.14 ± 0.49	2047 ± 21	133.93	x
	22488-03V	24	0.02 ± 0.08	0.88 ± 0.13	13.94 ± 0.35	14.86 ± 0.69	14.72 ± 0.49	2041 ± 51	133.28	x
	22488-03W	26	0.05 ± 0.08	0.19 ± 0.11	1.59 ± 0.27	1.99 ± 0.70	1.67 ± 0.50	2040 ± 420	133.17	x
	22488-03X	28	0.11 ± 0.08	0.21 ± 0.10	2.03 ± 0.49	2.51 ± 0.72	1.84 ± 0.51	1860 ± 420	114.50	x
	22488-03Y	32	0.17 ± 0.09	1.87 ± 0.13	22.74 ± 0.80	24.60 ± 0.74	23.61 ± 0.52	2020 ± 50	131.00	x
<u>B14-053a_01</u>	22477-01A	0.5	0.41 ± 0.07	0.24 ± 0.15	0.33 ± 0.05	0.74 ± 2.30	-8.48 ± 1.63	N/A		
<u>$J = 1.99143e-2$</u>	22477-01B	1	0.23 ± 0.08	0.53 ± 0.16	1.83 ± 0.06	0.73 ± 2.42	-4.31 ± 1.71	N/A		
<u>$\pm 2.87347e-5$</u>	22477-01C	2	0.32 ± 0.07	0.96 ± 0.16	6.70 ± 0.09	1.75 ± 2.30	-5.49 ± 1.63	N/A		
	22477-01D	5	1.07 ± 0.09	11.00 ± 0.22	123.60 ± 0.82	48.73 ± 2.77	24.78 ± 1.97	606 ± 41	25.34	
	22477-01E	9	1.70 ± 0.24	57.79 ± 0.28	800.40 ± 2.98	840.78 ± 8.57	802.95 ± 6.76	1981 ± 11	126.84	
	22477-01F	10	0.64 ± 0.17	34.61 ± 0.22	523.70 ± 7.70	569.55 ± 5.95	555.31 ± 4.65	2048 ± 21	134.04	
	22477-01G	10.5	0.44 ± 0.13	25.10 ± 0.20	367.13 ± 5.77	409.79 ± 4.54	399.99 ± 3.50	2081 ± 22	137.69	
	22477-01H	11	0.38 ± 0.12	21.45 ± 0.17	320.03 ± 3.86	348.97 ± 4.10	340.52 ± 3.13	2052 ± 19	134.48	
	22477-01I	11	0.79 ± 0.15	30.33 ± 0.24	445.10 ± 2.17	505.12 ± 5.23	487.59 ± 4.05	2088 ± 12	138.47	
	22477-01J	11	0.71 ± 0.12	20.52 ± 0.17	297.79 ± 2.43	337.47 ± 3.98	321.68 ± 3.02	2071 ± 16	136.58	x
	22477-01K	9	0.53 ± 0.08	4.06 ± 0.19	55.78 ± 0.93	67.77 ± 2.59	55.94 ± 1.84	1980 ± 45	126.74	x
	22477-01L	10	0.59 ± 0.08	6.09 ± 0.20	81.60 ± 1.54	98.88 ± 2.59	85.65 ± 1.84	2036 ± 35	132.73	x
	22477-01M	10.5	0.41 ± 0.09	7.30 ± 0.20	103.50 ± 0.84	120.12 ± 2.70	110.90 ± 1.92	2060 ± 24	135.36	x

22477-01N	11	0.34±0.08	8.79±0.23	127.10±0.74	142.33±2.66	134.80±1.89	2048±19	134.04	x
22477-01O	11.2	0.36±0.08	8.08±0.21	114.30±0.76	128.80±2.68	120.80±1.90	2044±21	133.61	x
22477-01P	11.3	0.26±0.08	7.05±0.21	106.50±1.92	118.79±2.65	113.10±1.89	2050±30	134.26	x
22477-01Q	11.4	0.21±0.08	6.68±0.21	97.93±2.06	110.54±2.47	105.80±1.77	2071±33	136.58	x
22477-01R	11.5	0.26±0.08	5.61±0.19	84.09±0.67	95.25±2.47	89.55±1.76	2053±26	134.59	x
22477-01S	11.6	0.22±0.08	5.26±0.19	77.41±0.64	87.58±2.51	82.74±1.78	2058±29	135.14	x
22477-01T	11.8	0.15±0.08	5.20±0.18	77.56±1.37	87.48±2.45	84.03±1.77	2074±34	136.91	x
22477-01U	12.1	0.07±0.08	5.51±0.19	80.27±1.16	89.76±2.53	88.29±1.80	2093±31	139.03	x
22477-01V	12.4	0.01±0.08	5.65±0.20	83.29±0.91	90.56±2.47	90.36±1.75	2076±28	137.13	x
22477-01W	12.8	0.14±0.08	6.37±0.19	88.90±0.62	98.80±2.49	95.61±1.77	2065±24	135.91	x
22477-01X	13.5	0.21±0.09	8.51±0.22	118.50±1.38	134.21±2.76	129.60±1.96	2085±24	138.14	x
22477-01Y	14	0.33±0.09	9.02±0.21	124.20±0.66	138.86±2.77	131.60±1.97	2047±20	133.93	x
22477-01Z	14.5	0.40±0.12	9.26±0.26	130.30±0.74	149.16±3.67	140.30±2.62	2066±24	136.02	x
22477-01AA	15	0.20±0.12	10.25±0.29	144.70±1.41	160.97±3.83	156.40±2.72	2071±25	136.58	x
22477-01AB	16	0.44±0.10	14.97±0.25	211.20±1.57	230.55±3.13	220.70±2.26	2030±16	132.08	x
22477-01AC	17	0.63±0.11	17.89±0.16	253.56±1.14	285.89±5.25	271.76±4.68	2061±22	135.47	x
22477-01AD	17.5	0.49±0.10	14.43±0.15	218.46±1.97	244.70±4.71	233.71±4.18	2059±25	135.25	x
22477-01AE	18	0.34±0.09	11.12±0.22	164.80±0.92	183.71±2.90	176.20±2.08	2058±16	135.14	x
22477-01AF	18.5	0.30±0.09	9.86±0.23	144.60±1.50	159.79±2.85	153.20±2.03	2047±21	133.93	x
22477-01AG	19	0.28±0.12	11.87±0.28	182.00±1.08	198.85±3.67	192.70±2.60	2047±18	133.93	x
22477-01AH	19.5	0.26±0.08	7.80±0.20	123.00±0.79	133.71±2.59	127.80±1.83	2023±19	131.33	x
22477-01AI	20	0.13±0.08	6.20±0.19	93.04±0.57	103.64±2.56	100.80±1.82	2075±14	137.02	x
22477-01AJ	20.5	0.20±0.08	6.68±0.20	106.20±0.79	116.30±2.60	111.80±1.85	2039±22	133.06	x
22477-01AK	21	0.18±0.08	5.95±0.19	88.47±0.65	98.92±2.48	94.96±1.76	2063±25	135.69	x
22477-01AL	21.5	0.12±0.08	3.96±0.18	59.95±0.28	68.35±2.42	65.63±1.72	2087±33	138.36	x
22477-01AM	22	0.17±0.08	2.48±0.17	38.18±0.28	43.95±2.45	40.06±1.74	2035±54	132.63	x
22477-01AN	22.5	0.06±0.08	0.91±0.16	14.04±0.07	16.07±2.42	14.68±1.72	2030±140	132.08	x
22477-01AO	23	0.08±0.07	1.00±0.16	14.16±0.08	16.23±2.36	14.40±1.67	2000±140	128.86	x
22477-01AP	24		0.53±0.16	9.00±0.20	9.26±2.36	12.79±1.67	2420±180	179.28	

	22477-01AQ	25	0.35 ± 0.15	5.89 ± 0.09	6.00 ± 2.30	9.09 ± 1.63	2540 ± 250	195.97		
	22477-01AR	30	0.02 ± 0.07	0.91 ± 0.16	14.03 ± 0.14	15.61 ± 2.36	15.06 ± 1.67	2060 ± 140	135.36	
	22477-01AS	35	0.05 ± 0.08	1.41 ± 0.17	21.31 ± 0.30	23.35 ± 2.43	22.27 ± 1.72	2030 ± 96	132.08	
<u>B14-053a_02</u>	22477-02A	1	0.06 ± 0.05	0.26 ± 0.16		0.46 ± 2.48	-1.41 ± 1.75	6900 ± 9500	2844.73	
$J = 1.99143e-2$	22477-02B	2	0.10 ± 0.06	0.34 ± 0.18	0.74 ± 0.34	0.84 ± 2.70	-2.30 ± 1.91	N/A		
$\pm 2.87347e-5$	22477-02C	3	0.13 ± 0.06	0.30 ± 0.18	1.86 ± 0.36	0.95 ± 2.70	-3.17 ± 1.91	N/A		
	22477-02D	4	0.24 ± 0.07	3.51 ± 0.21	35.98 ± 0.30	7.53 ± 3.05	-0.02 ± 2.16	N/A		
	22477-02E	5	0.70 ± 0.07	7.48 ± 0.23	86.19 ± 0.44	24.74 ± 2.99	2.42 ± 2.11	98 ± 83	3.54	
	22477-02F	6	1.00 ± 0.08	10.59 ± 0.28	124.40 ± 0.42	83.86 ± 3.81	51.81 ± 2.70	1090 ± 43	52.67	
	22477-02G	7	1.09 ± 0.08	16.88 ± 0.28	208.70 ± 3.07	224.24 ± 9.09	189.30 ± 8.72	1861 ± 56	114.60	
	22477-02H	6.5	0.17 ± 0.07	4.33 ± 0.22	53.74 ± 0.36	56.73 ± 3.05	51.15 ± 2.16	1918 ± 51	120.31	
	22477-02I	7	0.16 ± 0.07	7.56 ± 0.24	94.03 ± 0.42	102.88 ± 3.31	97.80 ± 2.34	2024 ± 30	131.43	x
	22477-02J	7.2	0.07 ± 0.07	6.94 ± 0.23	86.12 ± 0.42	96.71 ± 2.97	94.35 ± 2.10	2088 ± 29	138.47	x
	22477-02K	7.5	0.15 ± 0.05	7.35 ± 0.20	92.45 ± 0.48	102.32 ± 2.41	97.49 ± 1.71	2041 ± 23	133.28	x
	22477-02L	7.8	0.16 ± 0.07	7.81 ± 0.25	97.34 ± 0.85	110.38 ± 3.24	105.30 ± 2.29	2073 ± 29	136.80	x
	22477-02M	8	0.15 ± 0.07	6.93 ± 0.23	89.06 ± 0.42	99.30 ± 3.18	94.62 ± 2.25	2050 ± 30	134.26	x
	22477-02N	8.2	0.16 ± 0.07	6.08 ± 0.22	81.26 ± 0.42	90.78 ± 3.04	85.69 ± 2.15	2041 ± 32	133.28	x
	22477-02O	8.5	0.08 ± 0.07	6.68 ± 0.23	87.23 ± 0.45	97.55 ± 3.07	94.87 ± 2.17	2079 ± 29	137.47	x
	22477-02P	8.8	0.28 ± 0.05	6.59 ± 0.20	84.59 ± 0.82	97.08 ± 2.48	87.99 ± 1.76	2024 ± 27	131.43	x
	22477-02Q	9	0.11 ± 0.07	6.65 ± 0.25	85.15 ± 0.42	95.92 ± 3.38	92.26 ± 2.39	2074 ± 32	136.91	x
	22477-02R	9.2	0.26 ± 0.05	6.74 ± 0.19	87.22 ± 0.50	99.37 ± 2.40	90.93 ± 1.70	2027 ± 24	131.76	x
	22477-02S	9.5	0.29 ± 0.05	7.17 ± 0.22	90.03 ± 0.86	102.41 ± 2.42	93.15 ± 1.71	2018 ± 25	130.79	x
	22477-02T	9.8	0.22 ± 0.05	8.51 ± 0.21	104.00 ± 0.48	117.59 ± 2.42	110.70 ± 1.71	2052 ± 20	134.48	x
	22477-02U	10	0.25 ± 0.05	7.84 ± 0.21	101.40 ± 0.83	115.00 ± 2.49	106.90 ± 1.76	2041 ± 23	133.28	x
	22477-02V	10.2	0.26 ± 0.05	7.62 ± 0.21	95.71 ± 0.43	108.90 ± 2.45	100.70 ± 1.74	2038 ± 22	132.95	x
	22477-02W	10.5	0.20 ± 0.05	8.03 ± 0.19	98.78 ± 0.46	113.28 ± 2.38	106.80 ± 1.69	2072 ± 21	136.69	x
	22477-02X	10.8	0.23 ± 0.06	7.90 ± 0.21	99.05 ± 0.45	112.54 ± 2.57	105.30 ± 1.82	2051 ± 22	134.37	x
	22477-02Y	11	0.14 ± 0.07	7.43 ± 0.24	95.84 ± 0.40	108.91 ± 3.36	104.40 ± 2.38	2082 ± 29	137.80	x

22477-02Z	11.2	0.17±0.05	6.95±0.19	87.21±0.40	98.74±2.32	93.28±1.64	2059±23	135.25	x
22477-02AA	11.5	0.24±0.05	6.84±0.19	87.89±0.42	99.78±2.41	91.96±1.71	2032±24	132.30	x
22477-02AB	11.8	0.12±0.07	6.62±0.23	86.74±0.45	97.14±3.11	93.36±2.20	2066±30	136.02	x
22477-02AC	12	0.14±0.07	6.50±0.24	85.38±0.47	95.79±3.32	91.24±2.35	2057±33	135.03	x
22477-02AD	12.2	0.04±0.07	6.76±0.23	85.46±0.40	96.42±3.16	95.19±2.24	2109±30	140.84	x
22477-02AE	12.5	0.11±0.07	7.14±0.24	87.71±0.37	99.64±3.28	96.21±2.32	2090±31	138.70	x
22477-02AF	12.8	0.20±0.05	6.59±0.19	82.91±0.42	94.15±2.47	87.67±1.75	2044±25	133.61	x
22477-02AG	13	0.11±0.07	6.10±0.24	80.21±0.42	90.39±3.25	86.90±2.30	2074±33	136.91	x
22477-02AH	13.3	0.06±0.07	6.17±0.23	77.75±0.45	88.09±3.13	86.13±2.22	2102±33	140.05	x
22477-02AI	13.7	0.26±0.05	6.30±0.18	81.84±0.42	92.63±2.30	84.24±1.63	2012±25	130.14	x
22477-02AJ	14	0.21±0.05	6.95±0.20	87.84±0.47	99.79±2.34	93.23±1.65	2049±23	134.15	x
22477-02AK	14.3	0.12±0.07	7.17±0.22	87.65±0.44	98.23±3.01	94.54±2.13	2069±29	136.36	x
22477-02AL	14.7	0.14±0.07	7.23±0.25	93.53±0.79	105.06±3.36	100.60±2.38	2065±31	135.91	x
22477-02AM	15	0.19±0.07	6.91±0.22	85.10±0.82	96.54±3.02	90.45±2.14	2051±32	134.37	x
22477-02AN	15.3	0.14±0.06	6.68±0.23	87.67±0.42	99.22±2.91	94.80±2.06	2072±28	136.69	x
22477-02AO	15.7	0.20±0.05	6.89±0.19	87.87±0.42	100.67±2.18	94.22±1.55	2062±21	135.58	x
22477-02AP	16	0.26±0.05	6.86±0.18	85.91±0.40	97.73±2.17	89.48±1.53	2026±22	131.65	x
22477-02AQ	16.3	0.21±0.05	7.19±0.18	87.82±0.40	99.74±2.27	93.13±1.61	2048±22	134.04	x
22477-02AR	16.7	0.21±0.05	7.15±0.21	91.88±0.40	103.25±2.29	96.43±1.62	2035±22	132.63	x
22477-02AS	17	0.21±0.05	6.46±0.19	83.79±0.45	94.79±2.16	88.20±1.53	2039±22	133.06	x
22477-02AT	17.3	0.15±0.05	6.42±0.18	79.05±0.40	89.42±2.28	84.57±1.62	2059±25	135.25	x
22477-02AU	17.7	0.18±0.05	6.02±0.17	77.37±0.37	87.77±2.10	82.10±1.49	2049±23	134.15	x
22477-02AV	18	0.14±0.05	7.02±0.19	90.31±0.42	101.93±2.35	97.44±1.66	2069±22	136.36	x
22477-02AW	18.3	0.15±0.05	6.27±0.18	77.49±0.42	88.39±2.27	83.63±1.61	2070±25	136.47	x
22477-02AX	18.7	0.24±0.05	6.82±0.18	87.40±0.37	99.48±2.24	91.72±1.59	2035±22	132.63	x
22477-02AY	19	0.20±0.05	7.90±0.19	100.60±0.45	114.71±2.33	108.30±1.65	2067±20	136.14	x
22477-02AZ	19.3	0.24±0.05	7.76±0.19	96.35±0.41	111.22±2.25	103.60±1.60	2065±20	135.91	x
22477-02AAA	19.7	0.29±0.05	7.75±0.19	98.13±0.44	112.46±2.18	103.20±1.55	2038±20	132.95	x
22477-02AAB	20	0.24±0.05	7.62±0.19	91.04±0.41	105.11±2.22	97.52±1.57	2060±21	135.36	x

22477-02AAC	20.4	0.29±0.06	9.12±0.21	108.90±0.46	124.80±2.51	115.50±1.78	2049±20	134.15	x	
22477-02AAD	20.7	0.44±0.05	10.22±0.21	119.50±0.49	138.27±2.42	124.30±1.71	2024±18	131.43	x	
22477-02AAE	21	0.29±0.05	8.59±0.21	100.20±0.39	116.48±2.45	107.10±1.74	2058±21	135.14	x	
22477-02AAF	21.4	0.30±0.05	9.11±0.21	106.30±0.40	125.24±2.40	115.60±1.70	2080±19	137.58	x	
22477-02AAG	21.7	0.24±0.05	7.32±0.19	90.24±0.37	105.26±2.21	97.60±1.56	2072±21	136.69	x	
22477-02AAH	22	0.16±0.05	7.45±0.19	98.21±1.62	111.68±2.26	106.50±1.60	2076±28	137.13	x	
22477-02AAI	22.4	0.15±0.05	6.13±0.18	75.70±1.68	86.98±2.12	82.03±1.51	2075±36	137.02	x	
22477-02AAJ	22.7	0.18±0.05	6.56±0.18	83.05±0.39	95.27±2.16	89.38±1.53	2066±22	136.02	x	
22477-02AAK	23	0.15±0.05	6.32±0.20	82.32±0.74	95.98±2.34	91.28±1.66	2103±26	140.16	x	
22477-02AAL	23.4	0.18±0.05	5.01±0.18	64.58±0.37	75.99±2.20	70.28±1.56	2080±28	137.58	x	
22477-02AAM	23.7	0.12±0.05	4.07±0.16	51.56±0.30	59.02±2.14	55.17±1.52	2059±35	135.25	x	
22477-02AAN	24	0.11±0.04	2.51±0.15	31.97±0.30	36.73±1.99	33.05±1.41	2017±53	130.68	x	
22477-02AAO	24.4	0.11±0.05	2.19±0.16	28.99±0.26	33.27±2.17	29.77±1.53	2009±64	129.82	x	
22477-02AAP	24.7	0.09±0.04	2.25±0.15	28.11±0.29	31.98±1.99	29.25±1.40	2025±60	131.54	x	
22477-02AAQ	25.4	0.01±0.04	1.09±0.14	14.76±0.24	17.21±1.88	17.00±1.33	2150±100	145.53	x	
22477-02AAR	26		1.00±0.13	12.70±0.22	15.22±1.87	16.65±1.33	2320±110	166.19		
22477-02AAS	27	0.03±0.04	1.35±0.13	18.04±0.25	21.07±1.79	20.09±1.27	2109±80	140.84		
22477-02AAT	35	0.12±0.04	3.12±0.15	40.65±0.30	47.23±1.94	43.29±1.37	2053±40	134.59		
22477-02AAU	45	0.07±0.04	0.53±0.13	7.03±0.22	8.47±1.87	6.13±1.32	1820±250	110.59		
<u>B15-053a_03</u>	22477-03A	3		0.00±0.00	0.00±0.23	0.21±0.16	10000±1600	16150		
<u>J = 1.99143e-2</u>	22477-03B	5			0.00±0.21	0.38±0.15	N/A			
<u>± 2.87347e-5</u>	22477-03C	6			0.00±0.22	0.07±0.15	N/A			
	22477-03D	6.5			0.00±0.21	0.17±0.15	N/A			
	22477-03E	7	0.09±0.05		0.00±0.17	-0.23±0.12	12300±2600	57954		
	22477-03F	9	0.20±0.05	0.00±0.00	0.00±0.17	-0.49±0.12	N/A			
	22477-03G	10	0.07±0.05	0.00±0.00	0.00±0.17	-0.17±0.12	N/A			
	22477-03H	4	0.08±0.05	0.00±0.00	0.00±0.17	-0.21±0.12	N/A			
	22477-03I	7	0.13±0.05	0.44±0.02	11.15±2.12	12.23±0.19	11.91±0.14	2060±230	135.36	x

	22477-03J	9	0.08±0.06	1.34±0.04	48.36±1.73	50.90±0.23	50.69±0.17	2033±44	132.41	x
	22477-03K	9.5	0.06±0.06	0.81±0.06	65.78±3.08	70.84±0.25	70.70±0.19	2064±58	135.80	x
	22477-03L	11	0.07±0.10	12.39±0.12	190.47±4.33	204.80±0.35	204.62±0.25	2064±28	135.80	x
	22477-03M	11.5		11.55±0.11	180.17±2.60	192.99±0.41	193.01±0.25	2060±18	135.36	x
	22477-03N	13	0.22±0.11	17.28±0.19	289.48±3.37	311.75±0.42	311.19±0.30	2064±14	135.80	x
	22477-03O	14.2	0.08±0.11	18.64±0.11	282.21±3.18	302.35±0.41	302.14±0.31	2059±14	135.25	x
	22477-03P	15.4	0.11±0.10	18.30±0.12	285.00±4.62	303.78±0.37	303.50±0.27	2053±20	134.59	x
	22477-03Q	16.6	0.13±0.10	17.75±0.16	299.87±3.37	320.16±0.36	319.84±0.26	2055±14	134.81	x
	22477-03R	18.1	0.16±0.12	23.54±0.17	371.08±2.32	396.16±0.46	395.76±0.35	2054.6±7.8	134.77	x
	22477-03S	19.6	0.22±0.13	25.87±0.22	429.23±1.85	457.83±0.51	457.28±0.39	2053.3±5.5	134.63	x
	22477-03T	21.1	0.04±0.12	23.49±0.12	331.18±3.09	353.24±0.46	353.14±0.33	2054±12	134.70	x
	22477-03U	22.6		14.24±0.09	200.69±2.12	213.21±0.34	213.38±0.24	2051±13	134.37	x
	22477-03V	25		12.71±0.12	181.26±2.22	193.49±0.29	193.51±0.23	2056±15	134.92	x
	22477-03W	28	0.09±0.08	7.80±0.08	108.92±2.02	115.72±0.30	115.49±0.22	2047±23	133.93	x
	22477-03X	31	0.09±0.10	13.76±0.09	190.87±2.89	202.80±0.37	202.58±0.27	2049±19	134.15	x
	22477-03Y	34	0.12±0.06	2.360.04	0.01±0.00	0.01±0.22	-0.30±0.16	N/A		
<u>B14-053a_04</u>	22477-04A	2.5	0.25±0.07	0.00±0.00	17.14±3.08	4.28±4.74	-7.95±3.35	N/A		
<u>J = 1.99143e-2</u>	22477-04B	4.5	1.13±0.06	0.00±0.00	76.64±3.08	49.95±4.07	-5.36±2.88	N/A		
<u>± 2.87347e-5</u>	22477-04C	6	1.29±0.10	0.00±0.00	185.51±3.28	164.28±6.58	101.40±4.65	1329±47	69.12	
	22477-04D	7	1.13±0.08	0.00±0.00	190.14±2.99	195.51±5.34	140.41±3.78	1632±34	93.37	
	22477-04E	8	1.13±0.09	0.00±0.00	232.99±2.99	246.30±6.05	191.16±4.28	1747±29	103.69	
	22477-04F	9	1.03±0.09	0.00±0.00	244.89±3.08	265.46±6.21	215.18±4.39	1825±28	111.08	
	22477-04G	10.2	1.26±0.11	0.00±0.00	291.58±2.70	350.30±7.66	289.00±5.41	1966±26	125.27	
	22477-04H	11.4	1.57±0.15	0.00±0.00	355.43±5.78	451.49±10.59	375.09±7.49	2042±32	133.39	x
	22477-04I	12.6	0.71±0.12	0.00±0.00	314.33±2.99	372.20±8.14	337.36±5.76	2063±25	135.69	x
	22477-04J	13.8	0.77±0.10	19.32±0.48	273.10±1.07	332.50±6.69	295.10±4.73	2071±21	136.58	x
	22477-04K	15	0.44±0.11	18.45±0.51	266.80±4.62	306.97±7.26	285.40±5.14	2059±31	135.25	x
	22477-04L	16.2	0.48±0.09	0.00±0.00	217.08±1.76	251.27±5.92	227.88±4.19	2036±25	132.73	x

22477-04M	17.7	0.46±0.10	0.00±0.00	235.65±4.39	272.32±7.14	250.01±5.05	2049±34	134.15	x	
22477-04N	19.5	0.22±0.08	0.00±0.00	194.82±2.44	219.08±5.52	208.56±3.91	2060±28	135.36	x	
22477-04O	21.3	0.26±0.08	0.00±0.00	216.09±3.31	242.51±5.80	229.97±4.10	2052±29	134.48	x	
22477-04P	23.5	0.19±0.10	0.00±0.00	275.31±3.12	302.24±6.74	292.93±4.77	2052±25	134.48	x	
22477-04Q	26	0.14±0.08	17.97±0.38	218.50±3.12	242.85±5.53	235.80±3.91	2069±27	136.36	x	
22477-04R	28.5	0.11±0.06	0.00±0.00	128.69±3.70	145.41±4.40	140.02±3.11	2080±45	137.58	x	
22477-04S	31	0.08±0.06	0.00±0.00	83.09±4.87	92.48±4.37	88.44±3.09	2053±84	134.59	x	
22477-04T	34	0.05±0.06	0.00±0.00	63.94±4.48	66.90±4.12	64.49±2.91	1990±100	127.80	x	
 <u>B14-053a_05</u>	 22477-05A	 1.5	 0.12±0.07	 1.22±0.17	 10.94±0.35	 3.37±2.26	 0.90±1.60	 270±450	 10.25	
<i>J = 1.99143e-2</i>	22477-05B	3	0.55±0.09	8.37±0.26	97.80±1.21	31.60±2.59	19.83±1.83	612±48	25.63	
$\pm 2.87347e-5$	22477-05C	5	1.09±0.10	15.40±0.31	189.10±2.17	156.00±2.90	132.60±2.07	1577±19	88.66	
	22477-05D	7	1.27±0.15	0.00±0.00	335.01±4.04	373.04±4.72	345.84±3.40	2015±16	130.46	x
	22477-05E	8	0.78±0.11	20.46±0.39	243.80±2.96	274.23±3.19	257.60±2.26	2044±15	133.61	x
	22477-05F	9.5	1.06±0.20	0.00±0.00	429.16±4.83	482.67±6.19	459.89±4.55	2061±15	135.47	x
	22477-05G	10	0.83±0.11	19.98±0.40	240.40±3.00	274.36±3.32	256.70±2.35	2057±16	135.03	x
	22477-05H	10.5	0.52±0.09	13.53±0.32	171.80±2.29	196.15±2.88	185.00±2.04	2067±18	136.14	x
	22477-05I	11	0.41±0.09	11.65±0.32	148.20±3.04	166.83±2.70	158.00±1.92	2055±27	134.81	x
	22477-05J	11.5	0.37±0.09	11.99±0.28	142.40±1.53	161.44±2.63	153.50±1.88	2068±17	136.25	x
	22477-05K	12	0.37±0.09	10.55±0.28	129.20±3.05	147.57±2.64	139.60±1.87	2071±31	136.58	x
	22477-05L	12.5	0.51±0.08	11.35±0.30	139.60±2.04	161.81±2.54	151.00±1.80	2072±20	136.69	x
	22477-05M	13	0.49±0.09	12.42±0.32	148.00±1.61	168.92±2.64	158.50±1.87	2060±16	135.36	x
	22477-05N	13.5	0.58±0.09	12.39±0.31	153.80±1.81	178.20±2.67	165.80±1.89	2068±17	136.25	x
	22477-05O	14	0.47±0.09	14.78±0.29	173.50±3.54	199.26±2.66	189.10±1.89	2082±26	137.80	x
	22477-05P	14.5	0.83±0.14	16.16±0.38	189.20±2.02	217.38±4.28	199.70±3.03	2042±20	133.39	x
	22477-05Q	15	0.72±0.09	16.69±0.34	188.90±3.62	216.82±2.86	201.40±2.03	2054±24	134.70	x
	22477-05R	15.5	0.65±0.09	14.55±0.31	160.40±1.82	185.95±2.79	172.10±1.98	2062±17	135.58	x
	22477-05S	16	0.43±0.08	8.10±0.25	86.13±1.49	99.36±2.41	90.14±1.71	2032±29	132.30	x
	22477-05T	16.5	0.23±0.07	5.70±0.23	53.72±0.73	61.71±2.02	56.80±1.43	2044±33	133.61	x

	22477-05U	18	0.12 ± 0.07	6.86 ± 0.21	47.36 ± 0.69	51.63 ± 2.14	49.02 ± 1.51	2019 ± 40	130.89	x
	22477-05V	19	0.12 ± 0.07	5.40 ± 0.20	24.58 ± 0.81	28.30 ± 2.11	25.79 ± 1.49	2035 ± 81	132.63	x
	22477-05W	22	0.08 ± 0.07	8.98 ± 0.24	20.48 ± 0.74	23.58 ± 2.18	21.80 ± 1.54	2053 ± 97	134.59	x
	22477-05X	25	0.24 ± 0.07	35.79 ± 0.38	44.16 ± 0.95	50.84 ± 2.07	45.75 ± 1.46	2020 ± 46	131.00	x
	22477-05Y	28	0.28 ± 0.07	20.19 ± 0.30	17.65 ± 1.19	24.51 ± 1.97	18.43 ± 1.40	2030 ± 120	132.08	x
	22477-05Z	33	0.14 ± 0.06	7.70 ± 0.22	15.34 ± 0.60	18.38 ± 1.91	15.29 ± 1.35	1970 ± 116	125.69	x
<u>B14-080_01</u>	22637-01A	3	0.71 ± 0.07	1.05 ± 0.05	4.77 ± 2.33	5.19 ± 0.63	0.88 ± 0.45	540 ± 330	22.15	
<u>$J = 1.89733e-2$</u>	22637-01B	5	0.38 ± 0.09	2.32 ± 0.07	29.93 ± 1.22	21.53 ± 0.81	19.22 ± 0.57	1437 ± 50	77.30	
<u>$\pm 6.79989e-5$</u>	22637-01C	7	0.20 ± 0.08	8.44 ± 0.10	110.92 ± 2.22	105.89 ± 0.67	104.69 ± 0.47	1851 ± 24	113.61	
	22637-01D	9	0.00 ± 0.09	13.51 ± 0.13	164.24 ± 1.78	183.02 ± 0.87	183.00 ± 0.53	2049 ± 14	134.15	x
	22637-01E	11	0.20 ± 0.10	21.62 ± 0.15	276.83 ± 2.45	311.73 ± 0.94	310.54 ± 0.70	2057 ± 11	135.03	x
	22637-01F	13		16.73 ± 0.15	208.73 ± 2.67	232.34 ± 0.83	232.90 ± 0.59	2051 ± 16	134.37	x
	22637-01G	14.5	0.06 ± 0.07	8.50 ± 0.10	103.26 ± 1.22	115.81 ± 0.60	115.46 ± 0.42	2053 ± 15	134.59	x
	22637-01H	16		5.61 ± 0.09	67.79 ± 1.67	75.30 ± 0.64	76.02 ± 0.45	2057 ± 31	135.03	x
	22637-01I	17.5	0.16 ± 0.06	2.02 ± 0.09	23.98 ± 1.89	27.56 ± 0.54	26.56 ± 0.38	2042 ± 98	133.39	x
	22637-01J	20.5	0.06 ± 0.08	4.83 ± 0.08	60.07 ± 1.67	66.84 ± 0.67	66.44 ± 0.47	2040 ± 35	133.17	x
	22637-01K	23.5	0.03 ± 0.08	5.80 ± 0.09	75.20 ± 1.34	84.49 ± 0.71	84.31 ± 0.51	2057 ± 23	135.03	x
	22637-01L	26.5		1.19 ± 0.06	15.52 ± 2.44	17.46 ± 0.64	17.61 ± 0.45	2070 ± 200	136.47	x
	22637-01M	29.5	0.08 ± 0.08	2.28 ± 0.07	31.03 ± 1.78	34.80 ± 0.65	34.29 ± 0.46	2039 ± 72	133.06	x
	22637-01N	35	0.01 ± 0.08	2.01 ± 0.06	27.83 ± 2.45	29.90 ± 0.67	29.82 ± 0.47	2002 ± 108	129.07	x
<u>B14-080_02</u>	22637-08A	1.5	0.53 ± 0.09	0.92 ± 0.11	5.97 ± 0.47	2.03 ± 0.52	-0.20 ± 0.37	N/A		
<u>$J = 1.89733e-2$</u>	22637-08B	3	0.25 ± 0.12	0.51 ± 0.10	5.22 ± 0.84	2.64 ± 0.70	1.57 ± 0.49	820 ± 230	36.52	
<u>$\pm 6.79989e-5$</u>	22637-08C	5	0.34 ± 0.11	1.62 ± 0.11	13.98 ± 0.63	11.14 ± 0.64	9.69 ± 0.46	1515 ± 67	83.52	
	22637-08D	7	0.27 ± 0.07	4.41 ± 0.16	45.30 ± 0.50	43.83 ± 0.42	42.71 ± 0.30	1850 ± 15	113.51	
	22637-08E	8	0.19 ± 0.07	4.96 ± 0.17	52.96 ± 0.45	55.60 ± 0.40	54.80 ± 0.28	1960 ± 12	124.64	
	22637-08F	9	0.04 ± 0.07	6.10 ± 0.16	60.01 ± 0.55	63.62 ± 0.45	63.45 ± 0.33	1986 ± 12	127.37	
	22637-08G	10		7.43 ± 0.22	74.91 ± 0.62	81.01 ± 0.67	81.30 ± 0.48	2017 ± 12	130.68	

22637-08H	11	0.12±0.08	10.85±0.21	112.00±0.71	125.42±0.51	124.90±0.37	2050±8.1	134.26	x
22637-08I	12	0.27±0.12	14.56±0.34	152.20±3.11	171.75±0.97	170.60±0.82	2057±26	135.03	x
22637-08J	12.5		9.60±0.19	100.10±1.38	111.33±0.74	111.90±0.55	2053±18	134.59	x
22637-08K	13	0.09±0.08	6.29±0.19	68.58±1.04	76.97±0.48	76.59±0.36	2052±19	134.48	x
22637-08L	13.5	0.14±0.07	4.22±0.17	42.85±0.48	48.36±0.46	47.77±0.34	2050±16	134.26	x
22637-08M	14	0.11±0.07	3.36±0.13	36.61±0.45	41.54±0.46	41.06±0.34	2057±18	135.03	x
22637-08N	15	0.11±0.07	3.04±0.14	35.90±0.53	40.69±0.40	40.22±0.29	2056±20	134.92	x
22637-08O	17	0.07±0.07	3.90±0.16	38.94±0.52	43.90±0.47	43.61±0.37	2056±19	134.92	x
22637-08P	19	0.02±0.07	4.71±0.19	51.04±0.95	57.24±0.45	57.14±0.32	2055±24	134.81	x
22637-08Q	21		1.86±0.12	19.77±1.30	23.12±1.08	23.18±1.04	2112±99	141.18	x
22637-08R	24	0.04±0.10	6.09±0.17	67.69±0.63	75.48±0.65	75.33±0.47	2048±13	134.04	x
22637-08S	28	0.02±0.10	4.35±0.15	46.96±0.87	52.73±0.62	52.65±0.45	2057±25	135.03	x
22637-08T	33	0.08±0.07	0.61±0.09	6.83±0.55	7.53±0.39	7.18±0.27	1980±110	126.74	x
B14-086_01	22638-01A	3	68.76±0.28	11.48±0.12	9.62±1.62	216.75±2.44	-120.23±2.03	NaN	
<i>J = 1.89937e-2</i>	22638-01B	4	8.76±0.09	1.95±0.05	3.41±1.72	31.20±0.68	-11.72±0.51	NaN	
$\pm 7.62159e-5$	22638-01C	5	20.98±0.20	6.13±0.09	23.47±1.76	73.08±1.47	-29.75±1.11	NaN	
	22638-01D	6	3.72±0.10	5.18±0.07	27.70±1.67	39.06±0.78	20.81±0.59	1599±72	90.53
	22638-01E	7	2.75±0.07	6.69±0.10		75.67±0.74	62.21±0.65	NaN	
	22638-01F	8	1.13±0.09	6.64±0.10	105.40±2.50	107.35±0.95	101.80±0.85	1879±26	116.38
	22638-01G	9	0.42±0.08	7.34±0.09	113.36±1.86	128.34±1.03	126.29±0.95	2050±17	134.26
	22638-01H	10	0.67±0.08	9.87±0.12	157.66±2.42	178.89±1.31	175.62±1.25	2050±15	134.26
	22638-01I	11	0.25±0.09	13.47±0.15	216.20±4.54	241.84±1.72	240.60±1.67	2049±23	134.15
	22638-01J	12	0.05±0.12	15.20±0.13	260.44±4.84	291.67±2.07	291.44±1.99	2056±19	134.92
	22638-01K	13		15.47±0.14	267.71±5.20	299.27±2.10	299.36±2.02	2055±21	134.81
	22638-01L	14	0.74±0.10	14.52±0.16	249.68±4.51	280.91±1.96	277.31±1.90	2047±19	133.93
	22638-01M	15.5	0.35±0.13	20.36±0.19	344.70±6.12	384.60±2.64	382.90±2.56	2047±18	133.93
	22638-01N	16.8	0.18±0.13	23.04±0.18	373.27±5.76	419.78±2.84	418.90±2.77	2059±15	135.25
	22638-01O	18	0.06±0.17	30.05±0.23	520.90±7.80	580.67±3.93	580.40±3.84	2050±14	134.26

	22638-01P	19.3	26.77 ± 0.17	462.29 ± 7.24	516.01 ± 3.44	516.11 ± 3.39	2053 ± 15	134.59	x	
	22638-01Q	20	20.75 ± 0.15	359.28 ± 6.02	397.83 ± 2.69	398.30 ± 2.62	2044 ± 17	133.61	x	
	22638-01R	21	0.01 ± 0.14	23.93 ± 0.17	417.77 ± 8.54	466.12 ± 3.13	466.08 ± 3.07	2052 ± 22	134.48	x
	22638-01S	22	0.00 ± 0.14	22.32 ± 0.15	383.31 ± 5.66	426.59 ± 2.81	426.59 ± 2.81	2049 ± 14	134.15	x
	22638-01T	23		18.06 ± 0.18	317.70 ± 4.53	353.20 ± 2.43	353.60 ± 2.35	2049 ± 13	134.15	x
	22638-01U	24	0.16 ± 0.08	11.40 ± 0.12	192.39 ± 3.97	216.14 ± 1.50	215.34 ± 1.45	2056 ± 22	134.92	x
	22638-01V	25.5	0.26 ± 0.13	24.42 ± 0.18	423.59 ± 6.13	476.20 ± 3.22	474.92 ± 3.15	2058 ± 13	135.14	x
	22638-01W	27	0.33 ± 0.13	22.99 ± 0.19	398.90 ± 7.08	446.00 ± 3.02	444.40 ± 2.96	2050 ± 18	134.26	x
	22638-01X	28.5	0.19 ± 0.05	8.24 ± 0.11	140.48 ± 3.35	156.53 ± 1.14	155.59 ± 1.09	2043 ± 27	133.50	x
	22638-01Y	30	0.21 ± 0.10	3.76 ± 0.07	66.46 ± 2.18	73.49 ± 0.63	72.47 ± 0.57	2024 ± 39	131.43	x
	22638-01Z	33	0.11 ± 0.10	1.75 ± 0.05	20.27 ± 4.10	31.95 ± 0.43	31.40 ± 0.34	2470 ± 270	186.10	x
	22638-01AA	35	0.07 ± 0.06	1.15 ± 0.05	15.96 ± 2.39	24.02 ± 0.49	23.66 ± 0.37	2420 ± 200	179.28	x
<u>B14-086_02</u>	22638-05A	1.5	0.60 ± 0.08	1.09 ± 0.10	9.60 ± 0.25	4.71 ± 0.32	2.94 ± 0.23	828 ± 55	36.97	
<u>$J = 1.89937e-2$</u>	22638-05B	3	0.45 ± 0.07	1.89 ± 0.11	19.99 ± 0.33	16.15 ± 0.30	14.84 ± 0.21	1587 ± 23	89.50	
<u>$\pm 7.62159e-5$</u>	22638-05C	5	1.70 ± 0.09	4.45 ± 0.16	53.65 ± 0.44	43.89 ± 0.38	38.92 ± 0.27	1563 ± 11	87.48	
	22638-05D	7	2.04 ± 0.10	13.45 ± 0.31	133.00 ± 0.75	149.87 ± 0.42	143.90 ± 0.32	2014.9 ± 7.4	130.45	
	22638-05E	8	3.47 ± 0.11	17.80 ± 0.27	174.40 ± 0.94	209.06 ± 0.52	198.90 ± 0.41	2079.8 ± 7.2	137.56	
	22638-05F	9	2.32 ± 0.18	26.49 ± 0.26	297.40 ± 2.11	337.99 ± 1.02	331.20 ± 0.88	2050.0 ± 9.3	134.26	x
	22638-05G	9.5	1.33 ± 0.17	27.36 ± 0.26	304.00 ± 2.11	345.74 ± 0.76	341.87 ± 0.57	2061.9 ± 8.8	135.57	x
	22638-05H	10	1.64 ± 0.17	30.77 ± 0.27	338.67 ± 2.12	381.15 ± 1.11	376.35 ± 0.99	2047.3 ± 8.3	133.97	x
	22638-05I	10.5	0.47 ± 0.27	29.72 ± 0.22	347.06 ± 2.12	392.27 ± 1.17	390.89 ± 0.86	2063.9 ± 8.0	135.79	x
	22638-05J	10.7	0.93 ± 0.15	23.92 ± 0.24	290.76 ± 2.12	331.42 ± 0.72	328.70 ± 0.57	2068.3 ± 9.2	136.28	x
	22638-05K	10.9	0.66 ± 0.15	21.29 ± 0.21	254.62 ± 2.11	287.47 ± 1.21	285.52 ± 1.13	2058 ± 11	135.14	x
	22638-05L	11	0.47 ± 0.11	17.12 ± 0.27	206.20 ± 0.50	232.38 ± 0.55	231.00 ± 0.45	2056.9 ± 3.9	135.02	x
	22638-05M	11.1	0.34 ± 0.10	17.27 ± 0.24	203.10 ± 1.91	228.89 ± 0.67	227.90 ± 0.60	2059 ± 12	135.25	x
	22638-05N	11.2	0.10 ± 0.14	15.38 ± 0.28	192.40 ± 0.49	215.00 ± 0.59	214.70 ± 0.43	2052.2 ± 4.0	134.50	x
	22638-05O	11.3	0.31 ± 0.10	15.07 ± 0.24	192.60 ± 1.63	216.12 ± 0.45	215.20 ± 0.35	2054 ± 11	134.70	x
	22638-05P	11.4	0.24 ± 0.10	13.99 ± 0.31	174.30 ± 0.47	195.40 ± 0.43	194.70 ± 0.33	2053.9 ± 4.0	134.69	x

22638-05Q	11.5	0.30±0.09	11.38±0.25	149.80±0.84	168.38±0.40	167.50±0.30	2054.3±7.3	134.74	x
22638-05R	11.6	0.21±0.09	10.47±0.25	135.80±0.73	152.60±0.40	152.00±0.29	2056.6±7.1	134.99	x
22638-05S	11.7	0.32±0.08	11.19±0.27	144.10±0.42	161.82±0.38	160.90±0.29	2053.4±4.3	134.64	x
22638-05T	11.8	0.31±0.08	12.96±0.26	161.00±0.84	179.11±0.40	178.20±0.32	2042.9±6.8	133.49	x
22638-05U	11.9	0.27±0.08	9.97±0.23	127.30±0.75	142.91±0.36	142.10±0.28	2052.3±7.7	134.52	x
22638-05V	12	0.20±0.08	10.29±0.24	128.50±0.73	144.78±0.39	144.20±0.32	2059.6±7.5	135.32	x
22638-05W	12.1	0.29±0.08	9.29±0.21	118.10±0.72	132.44±0.42	131.60±0.34	2050.9±8.2	134.36	x
22638-05X	12.2	0.20±0.08	8.98±0.20	118.20±0.67	133.00±0.38	132.40±0.29	2057.5±7.5	135.09	x
22638-05Y	12.3	0.24±0.08	9.19±0.24	115.40±0.64	129.70±0.36	129.00±0.26	2054.3±7.3	134.74	x
22638-05Z	12.4	0.30±0.08	8.43±0.23	111.30±1.32	124.99±0.37	124.10±0.28	2051±15	134.37	x
22638-05AA	12.6	0.21±0.08	9.35±0.24	122.80±1.41	138.52±0.43	137.90±0.36	2060±14	135.36	x
22638-05AB	12.9	0.19±0.08	9.77±0.22	125.10±0.73	140.56±0.36	140.00±0.27	2055.4±7.6	134.86	x
22638-05AC	13.2	0.07±0.09	11.82±0.25	149.40±0.46	166.39±0.46	166.20±0.38	2048.7±4.8	134.12	x
22638-05AD	13.5	0.16±0.09	12.62±0.22	160.10±0.42	178.88±0.42	178.40±0.33	2050.6±4.0	134.33	x
22638-05AE	14	0.16±0.10	15.91±0.26	196.60±0.85	220.17±0.46	219.70±0.35	2054.5±5.7	134.76	x
22638-05AF	14.5	0.14±0.10	18.56±0.31	240.10±1.75	268.20±0.48	267.80±0.37	2051.6±9.1	134.44	x
22638-05AG	15	0.22±0.14	21.78±0.22	278.06±2.11	314.34±0.71	313.68±0.57	2065.8±9.6	136.00	x
22638-05AH	15.5	0.06±0.14	20.38±0.20	270.43±2.11	303.07±0.64	302.89±0.46	2057.0±9.8	135.03	x
22638-05AI	16	0.25±0.14	20.20±0.21	261.07±2.11	297.72±0.60	297.01±0.45	2076±10	137.13	x
22638-05AJ	16.5	0.09±0.10	17.04±0.28	217.60±1.56	245.16±0.52	244.90±0.43	2062.9±9.1	135.68	x
22638-05AK	17	0.21±0.11	17.75±0.31	233.00±0.99	260.13±0.50	259.50±0.39	2050.2±5.6	134.29	x
22638-05AL	17.5	0.32±0.11	18.11±0.27	237.30±1.67	266.82±0.56	265.90±0.46	2057.4±8.9	135.08	x
22638-05AM	18	0.49±0.29	20.16±0.19	264.02±2.11	298.86±1.21	297.43±0.86	2064±10	135.80	x
22638-05AN	18.3	0.22±0.15	19.75±0.19	266.26±2.11	300.53±0.64	299.90±0.48	2064±10	135.80	x
22638-05AO	18.6	0.30±0.28	23.58±0.22	306.88±2.11	346.53±1.32	345.67±1.03	2063.9±9.3	135.79	x
22638-05AP	19	0.25±0.17	21.35±0.21	275.15±2.11	313.84±1.74	313.12±1.67	2077±12	137.24	x
22638-05AQ	19.2		19.44±0.21	262.31±2.11	294.46±0.62	294.87±0.47	2061±10	135.47	x
22638-05AR	19.3	0.07±0.13	20.57±0.18	270.29±2.11	302.84±0.91	302.63±0.81	2057±10	135.03	x
22638-05AS	19.4	2.11±0.12	19.55±0.34	226.30±1.74	258.68±0.60	252.50±0.50	2052.4±9.8	134.53	x

22638-05AT	19.5	0.33±0.11	18.62±0.26	246.20±1.89	276.76±0.51	275.80±0.40	2057.0±9.6	135.03	x
22638-05AU	19.6	0.24±0.09	15.00±0.23	209.50±1.75	233.41±0.63	232.70±0.57	2047±11	133.93	x
22638-05AV	19.7	0.23±0.10	12.79±0.26	174.10±0.91	194.78±0.43	194.10±0.32	2051.5±6.8	134.43	x
22638-05AW	19.8	0.22±0.10	15.06±0.28	214.30±1.66	238.44±0.58	237.80±0.51	2045.6±9.9	133.78	x
22638-05AX	19.9	0.23±0.09	11.31±0.26	152.50±0.79	171.87±0.42	171.20±0.34	2060.2±6.9	135.38	x
22638-05AY	20	0.12±0.08	10.40±0.25	136.40±0.71	152.16±0.38	151.80±0.29	2049.6±6.8	134.22	x
22638-05AZ	20.1		9.72±0.22	138.20±0.78	154.35±0.51	154.70±0.37	2056.0±7.6	134.92	x
22638-05BA	20.2	0.16±0.08	9.24±0.22	120.60±0.67	134.36±0.43	133.90±0.35	2046.6±7.6	133.89	x
22638-05BB	20.3	0.07±0.08	7.24±0.19	98.00±0.56	110.00±0.42	109.80±0.35	2057.5±8.1	135.09	x
22638-05BC	20.6	0.23±0.08	9.64±0.24	127.60±0.70	143.27±0.64	142.60±0.60	2053.9±8.5	134.69	x
22638-05BD	20.9	0.18±0.08	8.54±0.20	117.90±0.65	132.04±0.42	131.50±0.35	2051.5±7.5	134.43	x
22638-05BE	21.2	0.14±0.07	9.20±0.21	118.90±0.62	133.11±0.39	132.70±0.32	2052.2±7.1	134.50	x
22638-05BF	21.7	0.21±0.09	15.18±0.26	209.60±0.88	235.13±0.46	234.50±0.37	2055.8±5.6	134.90	x
22638-05BG	22.2	0.09±0.17	20.85±0.22	300.27±2.11	338.47±0.93	338.20±0.78	2063.9±9.1	135.79	x
22638-05BH	22.7	0.32±0.10	16.54±0.28	231.00±0.96	261.03±0.50	260.10±0.40	2063.1±5.5	135.70	x
22638-05BI	23.2	0.24±0.20	36.50±0.24	491.07±2.18	551.30±0.93	550.58±0.72	2058.3±5.7	135.18	x
22638-05BJ	23.7		31.62±0.24	427.42±2.17	472.71±3.16	472.71±3.16	2042±10	133.39	x
22638-05BK	24.2	0.22±0.10	16.06±0.26	223.70±0.91	250.45±0.45	249.80±0.34	2053.6±5.3	134.66	x
22638-05BL	24.5	0.15±0.11	15.76±0.25	220.80±0.66	246.35±0.48	245.90±0.36	2049.8±3.9	134.24	x
22638-05BM	24.8	0.20±0.15	22.13±0.17	310.28±2.18	343.41±0.82	342.83±0.68	2040.3±8.8	133.20	x
22638-05BN	25.1	0.16±0.10	14.54±0.27	203.30±1.64	226.98±0.57	226.50±0.49	2050±10	134.26	x
22638-05BO	25.4	0.42±0.12	17.87±0.25	250.70±2.05	280.34±0.57	279.10±0.44	2049±10	134.15	x
22638-05BP	25.7	0.27±0.10	6.74±0.16	94.53±0.74	105.29±0.43	104.50±0.32	2041±10	133.28	x
22638-05BQ	26	0.23±0.09	5.77±0.17	73.21±1.00	81.37±0.37	80.69±0.27	2037±17	132.84	x
22638-05BR	26.3	0.13±0.08	6.95±0.17	98.16±0.76	109.07±0.35	108.70±0.26	2043.0±9.9	133.50	x
22638-05BS	27	0.12±0.07	6.36±0.19	97.41±0.67	108.15±0.32	107.80±0.24	2042.5±8.8	133.44	x
22638-05BT	28	0.32±0.34	82.49±0.41	1124.53±2.76	343.71±1.16	342.83±0.68	2057.9±3.1	135.13	x
22638-05BU	28.1	0.24±0.09	13.58±0.23	176.00±0.82	196.10±0.44	195.40±0.35	2046.5±6.0	133.88	x
22638-05BV	28.3	0.18±0.08	6.69±0.16	92.97±1.16	104.13±0.36	103.60±0.27	2051±16	134.37	x

	22638-05BW	28.5	0.43 ± 0.10	7.17 ± 0.19	98.05 ± 0.69	110.66 ± 0.43	109.40 ± 0.32	2052.3 ± 9.2	134.52	x
	22638-05BX	28.7	0.30 ± 0.09	5.80 ± 0.17	77.33 ± 0.63	86.42 ± 0.41	85.55 ± 0.31	2042 ± 11	133.39	x
	22638-05BY	28.9	0.27 ± 0.09	3.63 ± 0.16	48.16 ± 0.52	54.24 ± 0.39	53.45 ± 0.28	2046 ± 15	133.83	x
	22638-05BZ	29.3	0.08 ± 0.07	6.19 ± 0.16	86.99 ± 0.58	96.56 ± 0.31	96.31 ± 0.23	2042.7 ± 8.6	133.46	x
	22638-05CA	29.7	0.03 ± 0.08	5.64 ± 0.16	77.69 ± 0.55	85.66 ± 0.33	85.58 ± 0.25	2036.7 ± 9.3	132.81	
	22638-05CB	30.1		6.38 ± 0.20	88.18 ± 0.56	98.90 ± 0.33	98.92 ± 0.24	2058.9 ± 8.2	135.24	
	22638-05CC	31	0.17 ± 0.08	9.59 ± 0.18	128.90 ± 0.75	143.89 ± 0.35	143.40 ± 0.26	2048.6 ± 7.3	134.11	
	22638-05CD	33	0.11 ± 0.07	0.77 ± 0.09	8.28 ± 0.42	8.87 ± 0.28	8.54 ± 0.20	1957 ± 67	124.33	
B14-086_03	22638-09A	1.5	0.40 ± 0.07	0.43 ± 0.09	5.07 ± 0.39	4.12 ± 0.45	2.39 ± 0.32	1150 ± 130	56.60	
<i>J = 1.89937e-2</i>	22638-09B	3	0.17 ± 0.07	0.98 ± 0.10	15.32 ± 0.42	17.61 ± 0.45	16.88 ± 0.32	2038 ± 41	132.95	x
$\pm 7.62159e-5$	22638-09C	5	1.24 ± 0.10	10.10 ± 0.21	147.20 ± 1.50	168.13 ± 0.61	162.70 ± 0.44	2041 ± 13	133.28	x
	22638-09D	7	0.32 ± 0.20	29.50 ± 0.29	494.00 ± 2.22	552.48 ± 1.44	551.10 ± 1.14	2052.1 ± 6.1	134.49	x
	22638-09E	7.2	0.28 ± 0.11	14.59 ± 0.27	246.40 ± 0.94	276.14 ± 0.69	274.90 ± 0.51	2052.2 ± 5.2	134.50	x
	22638-09F	7.3	0.25 ± 0.09	9.71 ± 0.19	156.50 ± 0.90	176.29 ± 0.63	175.20 ± 0.49	2056.8 ± 7.9	135.01	x
	22638-09G	7.4	0.19 ± 0.08	5.68 ± 0.17	101.20 ± 1.15	113.62 ± 0.52	112.80 ± 0.39	2051 ± 15	134.37	x
	22638-09H	7.6	0.12 ± 0.08	5.69 ± 0.19	97.38 ± 0.73	108.94 ± 0.53	108.40 ± 0.39	2050 ± 10	134.26	x
	22638-09I	7.8	0.07 ± 0.08	5.57 ± 0.17	99.71 ± 0.77	111.52 ± 0.52	111.20 ± 0.40	2051 ± 10	134.37	x
	22638-09J	8	0.18 ± 0.08	5.38 ± 0.18	94.78 ± 0.72	106.67 ± 0.51	105.90 ± 0.37	2054 ± 10	134.70	x
	22638-09K	8.2	0.10 ± 0.08	5.82 ± 0.17	97.94 ± 0.64	109.33 ± 0.57	108.90 ± 0.44	2047.7 ± 9.4	134.01	x
	22638-09L	8.4	0.13 ± 0.08	6.49 ± 0.18	105.90 ± 0.69	118.98 ± 0.54	118.40 ± 0.39	2054.5 ± 9.0	134.76	x
	22638-09M	8.6	0.10 ± 0.09	7.09 ± 0.18	114.20 ± 0.77	127.25 ± 0.55	126.80 ± 0.40	2046.7 ± 9.1	133.90	x
	22638-09N	8.8	0.03 ± 0.09	6.03 ± 0.16	105.80 ± 0.74	118.73 ± 0.54	118.60 ± 0.39	2058.9 ± 9.4	135.24	x
	22638-09O	9	0.14 ± 0.09	7.48 ± 0.20	122.10 ± 0.74	137.13 ± 0.57	136.50 ± 0.42	2054.9 ± 8.4	134.80	x
	22638-09P	9.3		6.24 ± 0.18	112.50 ± 0.68	125.94 ± 0.48	126.20 ± 0.35	2058.4 ± 8.2	135.19	x
	22638-09Q	9.6	0.06 ± 0.08	7.78 ± 0.21	131.20 ± 0.77	147.06 ± 0.55	146.80 ± 0.42	2055.8 ± 8.0	134.90	x
	22638-09R	9.9	0.11 ± 0.08	7.52 ± 0.20	128.80 ± 0.74	145.19 ± 0.53	144.70 ± 0.38	2060.3 ± 7.8	135.40	x
	22638-09S	10.2	0.08 ± 0.09	7.53 ± 0.19	129.60 ± 0.71	145.65 ± 0.55	145.30 ± 0.40	2057.6 ± 7.5	135.10	x
	22638-09T	10.5	0.06 ± 0.09	6.72 ± 0.23	122.90 ± 0.72	136.97 ± 0.57	136.70 ± 0.42	2048.1 ± 8.1	134.06	x

22638-09U	10.8	0.10±0.08	7.56±0.22	123.40±0.87	138.55±0.55	138.10±0.42	2055.7±9.4	134.89	x
22638-09V	11.1		7.19±0.18	129.40±0.77	143.87±0.51	144.00±0.39	2049.1±8.0	134.16	x
22638-09W	11.4	0.06±0.08	6.82±0.22	120.40±1.40	134.58±0.50	134.30±0.37	2052±15	134.48	x
22638-09X	11.7	0.05±0.08	6.44±0.21	115.20±0.68	128.43±0.52	128.20±0.38	2049.4±8.1	134.20	x
22638-09Y	12		6.38±0.26	112.00±0.66	123.47±0.39	124.10±0.28	2044.4±7.7	133.65	x
22638-09Z	12.3	0.11±0.08	6.01±0.19	107.90±0.70	121.06±0.50	120.60±0.37	2054.3±8.9	134.74	x
22638-09AA	12.6	0.19±0.08	7.71±0.17	132.20±0.76	148.71±0.51	147.90±0.38	2055.3±7.8	134.84	x
22638-09AB	12.9		6.08±0.16	99.03±0.68	111.00±0.47	111.00±0.33	2058.2±9.2	135.16	x
22638-09AC	13.4	0.05±0.08	7.53±0.18	135.50±0.69	150.90±0.52	150.70±0.40	2047.9±7.0	134.03	x
22638-09AD	14	0.11±0.09	12.57±0.25	211.80±0.78	237.70±0.60	237.20±0.44	2056.5±5.1	134.98	x
22638-09AE	14.5	0.10±0.09	10.43±0.21	182.80±3.08	204.33±0.68	203.90±0.56	2052±21	134.48	x
22638-09AF	15	0.09±0.10	12.06±0.27	216.00±1.71	240.58±0.64	240.20±0.47	2048.2±10	134.07	x
22638-09AG	15.5	0.09±0.10	14.04±0.25	245.10±3.09	274.30±0.65	273.90±0.48	2055±16	134.81	x
22638-09AH	15.8	0.11±0.09	8.95±0.22	155.70±0.78	173.68±0.56	173.20±0.41	2049.2±6.8	134.18	x
22638-09AI	16.1	0.18±0.08	8.46±0.23	144.90±0.87	162.91±0.53	162.10±0.39	2056.0±8.0	134.92	x
22638-09AJ	16.4	0.16±0.08	6.10±0.17	104.50±1.24	116.60±0.53	115.90±0.40	2045.1±15	133.73	x
22638-09AK	16.7	0.00±0.07	5.36±0.16	92.43±0.65	103.01±0.47	103.00±0.35	2050.4±9.6	134.31	x
22638-09AL	17		4.53±0.17	80.63±0.61	89.89±0.47	90.18±0.34	2055.3±10	134.84	x
22638-09AM	17.5	0.33±0.08	6.07±0.17	110.90±0.67	125.13±0.54	123.70±0.41	2051.4±8.4	134.42	x
22638-09AN	18		8.35±0.21	146.70±0.82	164.22±0.58	164.30±0.44	2057.1±7.6	135.04	x
22638-09AO	18.5	0.59±0.10	10.49±0.25	181.20±1.86	204.88±0.72	202.30±0.58	2053±13	134.59	x
22638-09AP	19	0.22±0.08	8.94±0.20	153.40±0.78	172.85±0.60	171.90±0.48	2057.6±7.1	135.10	x
22638-09AQ	19.5	0.21±0.09	9.35±0.20	159.70±0.88	178.33±0.60	177.40±0.45	2046.6±7.4	133.89	x
22638-09AR	20	0.24±0.10	8.47±0.24	152.40±0.77	170.45±0.66	169.40±0.48	2047.7±7.1	134.01	x
22638-09AS	20.5	0.09±0.10	7.80±0.21	145.70±0.94	162.18±0.69	161.80±0.52	2046.4±8.8	133.87	x
22638-09AT	21	0.12±0.10	7.89±0.23	135.10±0.78	150.53±0.61	150.00±0.45	2045.9±8.0	133.81	x
22638-09AU	21.5	0.15±0.09	10.94±0.20	194.50±1.62	218.35±0.71	217.70±0.59	2056±11	134.92	x
22638-09AV	22	0.21±0.10	11.39±0.25	202.40±1.06	227.20±0.64	226.30±0.47	2054.5±6.9	134.76	x
22638-09AW	22.5	0.17±0.10	13.68±0.28	240.80±0.89	270.13±0.77	269.40±0.64	2055.2±5.4	134.83	x

22638-09AX	23	0.32±0.17	21.99±0.21	369.58±2.18	417.45±1.12	416.03±0.85	2063.1±7.7	135.70	x
22638-09AY	23.5	0.09±0.17	27.52±0.23	483.02±2.22	538.77±1.19	538.39±0.91	2051.0±6.0	134.37	x
22638-09AZ	24	0.50±0.18	24.10±0.20	418.40±2.19	466.49±1.25	464.29±0.96	2045.6±6.9	133.78	x
22638-09BA	24.3	0.23±0.11	10.46±0.23	182.80±0.94	205.22±0.74	204.20±0.57	2053.8±7.2	134.68	x
22638-09BB	24.6	0.05±0.13	8.30±0.20	140.60±0.84	157.00±0.87	156.80±0.64	2051.4±8.9	134.42	x
22638-09BC	24.9	0.25±0.10	7.59±0.19	131.70±0.72	147.59±0.67	146.50±0.49	2048.4±7.9	134.09	x
22638-09BD	25.2	0.08±0.11	14.53±0.22	260.00±1.25	292.24±0.75	291.90±0.57	2059.9±6.4	135.35	x
22638-09BE	25.5	0.09±0.09	10.20±0.22	176.80±0.97	198.59±0.57	198.20±0.41	2057.8±7.2	135.12	x
22638-09BF	25.8		6.84±0.19	126.30±0.76	139.88±0.79	140.00±0.57	2043.9±8.9	133.60	x
22638-09BG	26.1	0.04±0.08	7.75±0.20	135.60±0.70	151.46±0.50	151.30±0.37	2052.4±7.1	134.53	x
22638-09BH	26.5	0.18±0.07	5.08±0.16	92.00±1.23	102.81±0.48	102.00±0.35	2045±17	133.72	x
22638-09BI	27	0.15±0.08	6.05±0.19	101.80±0.62	113.85±0.49	113.20±0.36	2047.8±8.4	134.02	x
22638-09BJ	28	0.17±0.07	3.24±0.14	49.36±1.04	55.92±0.44	55.17±0.31	2054±27	134.70	x
22638-09BK	29	0.17±0.07	1.64±0.12	28.81±0.81	30.25±0.43	29.51±0.31	1949±36	123.50	
22638-09BL	31	0.16±0.07	2.75±0.14	49.32±0.60	51.87±0.45	51.16±0.33	1964±16	125.06	
22638-09BM	33	0.07±0.07	3.31±0.13	63.29±0.54	65.92±0.49	65.61±0.37	1963±12	124.95	

Table DR2. Average Microprobe Analyses of Biotite: H₂O calculated based on Cl + F + OH = 2.0 per formula unit.

B07-041	B06-055	B06-042	B14-015	B14-024	B14-045	B14-049	B14-053a	B14-080	B14-086	
SiO ₂	34.23	36.18	36.93	37.09	36.34	37.50	36.92	38.16	39.52	39.87
TiO ₂	4.14	4.52	4.12	3.88	3.79	3.26	3.08	3.95	2.54	3.13
Al ₂ O ₃	13.70	14.11	14.34	14.06	13.94	13.73	14.00	13.46	13.86	13.81
MnO	0.08	0.06	0.04	0.10	0.07	0.08	0.06	0.03	0.02	0.01
FeO	27.93	21.34	18.51	13.30	16.33	15.21	15.38	11.62	8.53	6.83
MgO	4.82	9.86	12.31	16.89	14.52	15.44	16.28	16.88	20.16	19.98
K ₂ O	9.30	9.34	9.84	7.35	8.01	9.03	7.69	9.56	9.64	9.51
Na ₂ O	0.10	0.30	0.18	0.06	0.05	0.13	0.06	0.16	0.10	0.29
BaO	0.24	0.26	0.23	0.09	0.07	0.13	0.09	0.20	0.21	0.17
CaO	0.00	0.06	0.03	0.75	0.15	0.08	0.13	0.10	0.12	0.08
Cl	0.23	0.42	0.62	0.39	0.51	0.68	0.44	0.50	0.67	0.65
F	0.11	0.37	0.30	0.30	0.28	0.42	0.49	0.61	1.05	0.48
H ₂ O	3.59	3.62	3.68	3.77	3.66	3.61	3.62	3.61	3.46	3.75
O=F, Cl	0.10	0.25	0.27	0.22	0.23	0.33	0.31	0.37	0.60	0.35

Total	98.37	100.19	100.85	98.00	97.50	98.99	97.98	98.82	99.85	99.11
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Table DR3. Summary of Isochron Regressions: All uncertainties reported at 1σ .

RunID	Isochron						Inverse Isochron						Steps
	Age (Ma)	\pm	MSWD	p	$^{40}\text{Ar}/^{36}\text{Ar}$ Int.	\pm	Age (Ma)	\pm	MSWD	p	$^{40}\text{Ar}/^{36}\text{Ar}$ Int.	\pm	
<u>B07-041</u>													
22486-01	2055.8	6.2	0.10	1.00	328	37	2055.8	4.0	0.28	1.00	333	32	D-W
22486-02	2055.0	5.7	0.13	1.00	240	190	2057.5	4.0	0.72	0.70	191	63	D-V
22486-03	2057.9	9.9	0.11	1.00	140	370	2054.3	7.8	0.34	0.99	360	170	C-R
<u>B06-055</u>													
22485-01	2055.5	3.4	0.15	1.00	301	33	2055.4	3.2	0.24	1.00	302	33	A-O
22485-02	2053.5	3.7	0.08	1.00	289	31	2055.8	3.0	0.14	1.00	285	28	B-AK
22485-04	2054.7	3.8	0.09	1.00	288	20	2055.5	3.2	0.18	1.00	287	19	B-X
<u>B06-042</u>													
22484-01	2054.1	3.4	0.13	1.00	250	110	2055.4	3.2	0.19	1.00	240	90	A-O
22484-05	2056.0	6.4	0.08	1.00	250	180	2055.7	5.1	0.15	1.00	270	120	04,A-U
22484-06	2053.7	7.1	0.13	1.00	380	430	2053.1	5.5	0.24	1.00	540	250	D-X
<u>B14-015</u>													
22487-01	2055.5	6.6	0.27	1.00	270	140	2056.7	5.5	0.38	1.00	278	85	F-AB
22487-02	2054	14	0.16	1.00	250	220	2056	11	0.24	0.99	240	120	H-T
22487-03	2055	14	0.16	1.00	2110	460	2056.6	9.9	0.35	1.00	2130	350	03F-04L
<u>B14-024</u>													
22489-01	2054.4	7.1	0.07	1.00	286	57	2054.7	6.5	0.08	1.00	284	50	B-J
22489-02	2048	21	0.20	1.00	1160	280	2053	19	0.13	1.00	1200	290	E-V
<u>B14-045</u>													
22490-02	2058.1	4.3	0.13	1.00	340	170	2054.9	4.5	0.10	1.00	450	170	D-U
22490-03	2043	28	0.51	0.94	2570	940	1929	58	0.55	0.91	7300	4900	F-V
22490-04	2054.5	6.5	0.09	1.00	330	180	2053.6	5.9	0.17	1.00	380	150	D-Y
<u>B14-049</u>													
22488-01	2054	12	0.08	1.00	290	340	2054	11	0.08	1.00	280	270	C-I

22488-02	2057.5	7.0	0.23	1.00	200	170	2056.6	5.7	0.42	0.97	261	99	J-Z
22488-03	2047	12	0.37	0.98	600	350	2019	24	0.38	0.98	1800	1100	J-Y
<u>B14-053a</u>													
22477-01	2046.7	9.6	0.66	0.93	2190	300	2057.9	8.8	0.81	0.77	2250	330	H-AO
22477-02	2042	14	0.56	1.00	3200	470	2042	12	0.73	0.95	3670	740	I-AAU
22477-03	2054.2	8.0	0.09	1.00	200	1300	2055.3	7.8	0.11	1.00	100	91	I-X
22477-04	2054	18	0.23	1.00	4860	720	2057	17	0.24	0.99	4880	700	H-T
22477-05	2056	24	0.26	1.00	2060	580	2058	20	0.37	0.99	2140	530	E-Y
<u>B14-080</u>													
22637-01	2058	13	0.04	1.00	300	1300	2053	10	0.11	1.00	630	660	D-N
22637-08	2055	11	0.09	1.00	300	430	2051.1	9.7	0.10	1.00	460	350	H-T
<u>B14-086</u>													
22638-01	2049	14	0.05	1.00	460	570	2053.1	7.8	0.10	1.00	380	220	G-Y
22638-05	2051.1	5.2	0.48	1.00	336	65	2054.0	5.1	0.79	0.89	294	35	F-BZ
22638-09	2052.8	5.3	0.20	1.00	340	120	2053.6	5.2	0.31	1.00	362	74	B-BJ

Table DR4. Summary of Ages from Plateau Diagrams: All uncertainties are reported at 1σ .

RunID	Plateau Age (Ma)	\pm	MSWD	p	Integrated Age (Ma)	\pm
<u>B07-041</u>						
22486-01	2055.8	3.3	0.26	1.00	2047.7	6.3
22486-02	2054.7	2.1	0.60	0.90	2050.0	3.2
22486-03	2054.1	3.2	0.31	0.99	2036.5	4.8
<u>B06-055</u>						
22485-01	2055.4	2.1	0.22	1.00	2054.8	2.9
22485-02	2055.8	1.8	0.14	1.00	2054.3	3.3
22485-04	2055.8	2.1	0.21	1.00	2055.4	3.4
<u>B06-042</u>						
22484-01	2055.4	2.0	0.17	1.00	2054.5	3.4
22484-05	2055.7	3.2	0.14	1.00	2050.9	4.8
22484-06	2053.8	2.6	0.33	1.00	2040.4	4.5
<u>B14-015</u>						
22487-01	2056.7	2.0	0.36	1.00	1907.0	6.0
22487-02	2055.2	3.3	0.23	1.00	1862.3	3.7
22487-03	2056.6	4.3	0.33	1.00	2065	13
<u>B14-024</u>						
22489-01	2054.5	4.8	0.05	1.00	2026.4	6.9
22489-02	2053	10	0.15	1.00	1904	13
<u>B14-045</u>						
22490-02	2055.0	2.2	0.28	1.00	2028.9	4.6
22490-03	2055.3	6.5	0.91	0.56	1920	13
22490-04	2053.4	2.2	0.15	1.00	1978.8	3.7
<u>B14-049</u>						
22488-01	2054.3	5.7	0.06	1.00	2031.5	6.0
22488-02	2056.4	3.0	0.38	0.99	2016.0	4.0
22488-03	2053.2	4.7	0.47	0.95	1991.7	3.9
<u>B14-053a</u>						
22477-01	2054.5	4.3	0.59	0.97	2030.5	8.8
22477-02	2055.0	3.2	0.72	0.95	2007	12
22477-03	2055.2	3.2	0.09	1.00	2056.1	4.3
22477-04	2056.8	8.3	0.21	1.00	1939	18
22477-05	2054.4	4.5	0.65	0.89	2000	11
<u>B14-080</u>						
22637-01	2052.8	6.3	0.07	1.00	2016.0	8.5
22637-08	2051.5	4.8	0.11	1.00	2015.2	6.3
<u>B14-086</u>						
22638-01	2052.4	3.9	0.37	0.99	2044.5	7.4

22638-05	2053.95	0.83	0.75	0.94	2052.7	2.0
22638-09	2053.3	1.0	0.33	1.00	2051.6	2.3