

Sample number: C1, Position: 0.58 mm, J value = 0.0005695 ± 0.0000011

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.524	0.924	0.934	76.798	9102.540	0.000644	±0.0000051	92.4	3.65	35.7	±74.1
2	6.30%		1.780	0.000	1.793	148.244	19381.230	0.000584	±0.0000038	97.4	7.05		
3	7.50%	Δ	1.438	2.388	3.044	254.939	34023.780	0.000572	±0.0000035	98.8	12.1	45.9	±43.0
4	8.00%	Δ	0.618	0.901	2.138	179.989	24153.060	0.000569	±0.0000036	99.2	8.56	85.9	±166.6
5	8.50%	Δ	0.573	1.694	1.921	159.174	21399.350	0.000568	±0.0000036	99.2	7.57	40.4	±45.9
6	9.20%	Δ	0.586	1.935	1.851	153.939	20686.340	0.000568	±0.0000036	99.2	7.32	34.2	±30.3
7	10.00%	Δ	0.314	1.800	1.412	116.215	15620.430	0.000568	±0.0000038	99.4	5.53	27.8	±35.4
8	11.50%	Δ	0.509	2.029	2.142	173.013	23235.410	0.000568	±0.0000036	99.4	8.23	36.7	±41.7
9	13.00%	Δ	0.549	5.439	2.243	184.046	24708.430	0.000569	±0.0000036	99.3	8.75	14.5	±5.1
10	15.00%	Δ	0.382	6.341	2.084	171.089	22947.680	0.000569	±0.0000036	99.5	8.14	11.6	±3.3
11	18.00%	Δ	0.623	22.374	3.071	253.498	33807.710	0.000572	±0.0000035	99.5	12.1	4.9	±0.4
12	25.00%	Δ	0.519	25.194	2.819	232.034	30987.220	0.000572	±0.0000035	99.5	11	4.0	±0.3

Sample number: C7, Position: 15.42 mm, J value = 0.0005766 ± 0.0000013

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		3.750	3.348	0.558	41.611	4991.050	0.000636	±0.0000055	81.8	2.99	5.3	±3.6
2	6.30%		1.888	1.959	1.131	89.598	11615.530	0.000589	±0.0000025	95.4	6.43	19.7	±20.7
3	7.50%	Δ	1.673	0.598	1.783	140.643	18478.700	0.000581	±0.0000019	97.4	10.1	101.2	±386.9
4	8.00%	Δ	0.739	0.744	1.261	101.997	13464.740	0.000578	±0.0000022	98.4	7.32	59.0	±167.3
5	8.60%	Δ	0.722	0.990	1.605	128.219	16979.240	0.000576	±0.0000019	98.8	9.2	55.7	±119.4
6	9.50%	Δ	0.553	1.476	1.620	127.247	16894.720	0.000575	±0.0000018	99	9.13	37.1	±48.7
7	10.50%	Δ	0.444	0.465	1.612	129.486	17212.640	0.000574	±0.0000018	99.2	9.29	119.6	±543.0
8	11.50%	Δ	0.405	0.474	1.496	119.447	15835.470	0.000576	±0.0000019	99.2	8.57	108.3	±560.3
9	13.00%	Δ	0.530	0.880	1.847	147.350	19522.700	0.000576	±0.0000017	99.2	10.6	72.0	±170.8
10	15.00%	Δ	0.346	3.987	1.483	119.356	15807.210	0.000576	±0.0000019	99.4	8.57	12.9	±6.1
11	18.00%	Δ	0.816	14.606	3.048	248.226	32854.660	0.000577	±0.0000014	99.3	17.8	7.3	±1.1

Sample number: C13, Position: 30.75 mm, J value = 0.0005781 ± 0.0000012

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.830	1.606	0.641	45.746	5434.000	0.000643	±0.0000067	86.5	2.77	12.2	±17.8
2	6.30%		1.430	1.471	1.046	78.067	10093.280	0.00059	±0.0000043	95.9	4.73	22.8	±35.9
3	7.50%	Δ	1.251	2.224	1.609	122.983	16115.290	0.000583	±0.0000039	97.7	7.45	23.8	±25.6
4	8.00%	Δ	0.720	0.692	1.570	120.343	15853.310	0.000579	±0.0000038	98.7	7.29	74.7	±249.3
5	8.60%	Δ	0.531	0.194	1.490	114.555	15123.210	0.000578	±0.0000039	99	6.93	254.1	±3268.9
6	9.50%	Δ	0.437	0.000	1.574	121.193	16018.140	0.000578	±0.0000038	99.2	7.34	333.8	±4317.8
7	10.50%	Δ	0.313	0.000	1.536	118.823	15718.430	0.000577	±0.0000038	99.4	7.19	333.8	±4317.8
8	11.50%	Δ	0.408	1.413	1.676	129.225	17111.880	0.000576	±0.0000038	99.3	7.82	39.3	±63.5
9	13.00%	Δ	0.567	2.943	2.050	157.159	20808.380	0.000577	±0.0000037	99.2	9.51	23.0	±18.5
10	15.00%	Δ	0.549	4.471	2.527	194.896	25782.470	0.000577	±0.0000036	99.4	11.8	18.7	±10.2
11	18.00%	Δ	0.861	11.086	3.732	290.349	38346.080	0.000578	±0.0000035	99.3	17.6	11.3	±2.3
12	22.00%	Δ	0.449	15.824	2.050	158.519	20920.250	0.000578	±0.0000037	99.4	9.6	4.3	±0.6

Sample number: C25, Position: 47.83 mm, J value = 0.0005730 ± 0.0000007

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		11.309	3.320	0.664	43.473	5230.730	0.000634	±0.0000055	60.8	3.01	5.6	±3.1
2	6.30%		2.967	2.465	1.008	74.922	9761.470	0.000586	±0.0000021	91.7	5.18	13.1	±9.4
3	7.50%		2.615	1.985	1.474	113.500	14946.510	0.00058	±0.0000017	95	7.85	24.6	±24.0
4	8.00%		1.564	0.600	1.097	81.499	10787.890	0.000577	±0.0000019	95.8	5.64	58.4	±184.7
5	8.60%	Δ	1.023	2.157	1.096	80.775	10736.670	0.000574	±0.0000018	97.2	5.59	16.1	±13.7
6	9.50%	Δ	1.004	1.432	1.443	107.234	14248.670	0.000574	±0.0000016	97.9	7.42	32.2	±41.2
7	10.50%	Δ	0.752	1.603	1.732	128.922	17172.530	0.000573	±0.0000015	98.7	8.92	34.6	±41.0
8	11.50%	Δ	0.676	2.031	1.742	131.136	17477.540	0.000573	±0.0000015	98.9	9.07	27.8	±28.4
9	13.00%	Δ	0.918	3.687	2.601	196.407	26209.690	0.000572	±0.0000014	99	13.6	22.9	±12.2
10	15.00%	Δ	1.059	6.253	3.457	262.120	34960.960	0.000572	±0.0000013	99.1	18.1	18.0	±5.2
11	22.00%	Δ	0.933	17.791	2.988	225.664	30033.440	0.000574	±0.0000013	99.1	15.6	5.5	±0.7

Table S1 Raw data for the J value results of ZBH-25.

Sample number: C31, Position: 59.62 mm, J value = 0.0005674 ± 0.0000005

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%	4.204	0.681	0.419	26.141	2989.430	0.000667	±0.0000095	70.6	1.34	16.5	±47.2
2	6.30%	1.818	1.632	1.171	82.934	10643.420	0.000595	±0.0000026	95.2	4.24	21.9	±28.4
3	7.50%	1.686	0.235	2.187	154.308	20585.380	0.000572	±0.0000016	97.6	7.89	281.8	±2125.5
4	8.00%	Δ 0.946	1.230	1.664	122.650	16503.250	0.000567	±0.0000018	98.3	6.27	42.9	±72.1
5	8.60%	Δ 0.907	1.699	2.066	148.708	19995.750	0.000568	±0.0000017	98.7	7.61	37.6	±47.5
6	9.50%	Δ 0.696	1.099	2.026	151.746	20386.990	0.000568	±0.0000016	99	7.76	59.4	±116.9
7	10.50%	Δ 0.491	2.136	2.085	156.178	20987.040	0.000568	±0.0000016	99.3	7.99	31.4	±28.9
8	11.50%	Δ 0.555	3.103	2.238	165.529	22255.580	0.000568	±0.0000016	99.3	8.47	22.9	±14.0
9	13.00%	Δ 0.763	7.682	2.884	212.352	28622.230	0.000566	±0.0000014	99.2	10.9	11.9	±3.0
10	15.00%	Δ 0.724	9.640	3.278	240.779	32384.110	0.000568	±0.0000014	99.3	12.3	10.7	±2.1
11	18.00%	Δ 0.922	19.556	3.659	266.547	35827.230	0.000568	±0.0000014	99.2	13.6	5.9	±0.6
12	22.00%	Δ 0.747	14.648	3.123	226.734	30562.940	0.000566	±0.0000014	99.3	11.6	6.7	±0.9

Sample number: C35, Position: 67.63 mm, J value = 0.0005647 ± 0.0000008

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%	13.600	3.184	0.648	41.824	5193.100	0.000615	±0.0000073	56.1	2.45	5.6	±3.5
2	6.30%	3.196	2.533	1.114	76.529	10161.940	0.000575	±0.0000029	91.4	4.49	13.0	±11.1
3	7.50%	2.208	3.117	1.518	107.115	14333.260	0.00057	±0.0000022	95.6	6.29	14.8	±9.0
4	8.00%	Δ 0.897	1.270	1.032	71.100	9572.750	0.000567	±0.0000029	97.3	4.17	24.1	±37.0
5	8.60%	Δ 0.847	1.764	1.095	76.364	10277.500	0.000567	±0.0000027	97.6	4.48	18.6	±23.6
6	9.50%	Δ 0.880	3.862	1.424	99.848	13468.160	0.000566	±0.0000022	98.1	5.86	11.1	±5.9
7	10.50%	Δ 0.649	1.639	1.590	113.283	15283.140	0.000566	±0.0000020	98.7	6.65	29.7	±35.4
8	11.50%	Δ 0.680	2.510	1.564	112.507	15172.870	0.000566	±0.0000021	98.7	6.6	19.3	±13.9
9	13.00%	Δ 0.640	4.881	1.944	138.195	18693.000	0.000564	±0.0000018	99	8.11	12.2	±5.2
10	15.00%	Δ 0.651	4.915	2.353	168.722	22854.730	0.000564	±0.0000016	99.2	9.9	14.8	±6.1
11	18.00%	Δ 1.436	10.040	4.864	348.110	47133.020	0.000564	±0.0000014	99.1	20.4	14.9	±3.0
12	22.00%	Δ 1.608	23.851	4.967	350.517	47442.760	0.000564	±0.0000014	99	20.6	6.3	±0.5

Sample number: D1, Position:0.64 mm, J value = 0.0005804± 0.0000009

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%	2.116	1.719	0.395	32.858	3969.460	0.000632	±0.0000052	86.3	2.41	8.2	±11.2
2	6.30%	1.421	0.356	1.060	89.152	11422.040	0.000596	±0.0000021	96.4	6.54	107.8	±583.9
3	7.50%	1.667	1.916	1.735	149.486	19420.940	0.000588	±0.0000016	97.5	11	33.5	±34.2
4	8.00%	0.712	0.000	1.213	106.451	13931.760	0.000583	±0.0000019	98.5	7.8	177.2	±1446.3
5	8.60%	Δ 0.599	0.000	1.319	114.019	14967.840	0.000581	±0.0000018	98.8	8.36	110.9	±595.8
6	9.50%	Δ 0.512	0.794	1.506	128.486	16898.810	0.00058	±0.0000017	99.1	9.42	69.6	±203.1
7	10.50%	Δ 0.403	0.379	1.566	132.831	17498.750	0.000579	±0.0000016	99.3	9.74	150.7	±886.7
8	11.50%	Δ 0.377	2.873	1.522	133.032	17544.640	0.000579	±0.0000016	99.4	9.75	19.9	±15.5
9	13.00%	Δ 0.382	4.899	1.421	123.786	16316.690	0.000579	±0.0000017	99.3	9.08	10.9	±5.4
10	14.00%	Δ 0.205	4.303	0.977	83.011	10899.110	0.000581	±0.0000021	99.4	6.09	8.3	±4.1
11	16.00%	Δ 0.258	3.595	1.169	98.449	12911.060	0.000582	±0.0000019	99.4	7.22	11.8	±6.3
12	19.00%	Δ 0.438	8.177	2.035	172.458	22641.900	0.000581	±0.0000015	99.4	12.6	9.1	±2.4

Sample number: D7, Position:10.17 mm, J value = 0.0005866 ± 0.0000011

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%	1.690	1.646	0.381	31.634	3597.380	0.000671	±0.0000045	87.7	2.13	8.3	±11.7
2	6.30%	1.074	0.000	0.774	61.683	7655.560	0.000615	±0.0000023	96	4.15	-	-
3	7.50%	1.439	0.579	1.513	126.430	16150.640	0.000598	±0.0000016	97.4	8.51	93.9	±427.8
4	8.00%	Δ 1.050	1.260	1.491	126.787	16426.470	0.000589	±0.0000015	98.1	8.53	43.3	±82.4
5	8.60%	Δ 0.619	0.985	1.391	115.625	15016.420	0.000588	±0.0000015	98.8	7.78	50.5	±128.0
6	9.50%	Δ 0.642	0.692	1.709	141.940	18507.960	0.000585	±0.0000015	99	9.55	88.2	±307.9
7	10.50%	Δ 0.384	1.290	1.554	129.561	16890.560	0.000586	±0.0000015	99.3	8.72	43.2	±82.9
8	11.50%	Δ 0.477	1.377	1.573	133.067	17397.940	0.000584	±0.0000015	99.2	8.96	41.6	±79.1
9	13.00%	Δ 0.452	2.815	1.784	153.724	20021.090	0.000586	±0.0000014	99.3	10.4	23.5	±19.8
10	14.00%	Δ 0.284	2.287	1.264	112.374	14617.770	0.000587	±0.0000016	99.4	7.56	21.1	±21.9
11	16.00%	Δ 0.407	6.181	1.620	138.969	18042.280	0.000588	±0.0000014	99.3	9.35	9.7	±3.9
12	19.00%	Δ 0.693	14.242	2.483	213.769	27788.970	0.000587	±0.0000014	99.3	14.4	6.5	±1.2

Sample number: D13, Position:29.20 mm, J value = 0.0005952 ± 0.0000015

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.303	1.961	1.050	85.000	10278.190	0.000631	±0.0000030	93.7	5.2	18.6	±36.1
2	6.30%		1.578	1.877	1.611	133.065	16766.000	0.000606	±0.0000021	97.3	8.15	30.5	±60.6
3	7.50%	Δ	1.124	2.152	1.909	156.515	20000.280	0.000597	±0.0000019	98.3	9.58	31.3	±54.4
4	8.00%	Δ	0.466	1.935	1.368	110.144	14120.700	0.000595	±0.0000023	99	6.74	24.5	±47.6
5	8.60%	Δ	0.406	0.880	1.446	116.276	14943.470	0.000594	±0.0000022	99.2	7.12	56.8	±246.0
6	9.50%	Δ	0.574	1.111	2.242	183.301	23611.170	0.000593	±0.0000017	99.3	11.2	71.0	±230.6
7	10.50%	Δ	0.400	1.822	2.105	171.574	22126.460	0.000592	±0.0000018	99.5	10.5	40.5	±85.8
8	11.50%	Δ	0.369	4.365	1.784	145.962	18837.990	0.000591	±0.0000019	99.4	8.94	14.4	±12.7
9	13.00%	Δ	0.401	6.756	1.697	137.928	17815.670	0.000591	±0.0000019	99.3	8.44	8.8	±5.0
10	14.00%	Δ	0.229	3.208	1.190	98.159	12681.490	0.000591	±0.0000024	99.5	6.01	13.2	±15.0
11	16.00%	Δ	0.178	2.721	0.863	70.780	9157.240	0.00059	±0.0000031	99.4	4.33	11.2	±15.2
12	19.00%	Δ	0.594	7.695	2.757	224.617	29054.140	0.00059	±0.0000015	99.4	13.8	12.6	±5.9

Sample number: D16, Position: 39.29 mm, J value = 0.0005906 ± 0.0000018

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.995	0.000	0.267	17.711	1921.120	0.000704	±0.0000126	68.2	1.37	-	-
2	6.30%		1.554	0.000	0.759	60.777	7430.020	0.000624	±0.0000033	94.1	4.7	-	-
3	7.50%	Δ	1.139	1.134	1.248	98.148	12499.560	0.000599	±0.0000021	97.3	7.58	37.2	±73.4
4	8.00%	Δ	0.531	0.490	1.019	79.824	10281.130	0.000593	±0.0000024	98.5	6.17	70.1	±350.4
5	8.60%	Δ	0.428	0.000	1.090	87.518	11317.770	0.00059	±0.0000022	98.9	6.76	-	-
6	9.50%	Δ	0.417	1.771	1.322	105.451	13681.710	0.000588	±0.0000020	99.1	8.15	25.6	±35.1
7	10.50%	Δ	0.345	0.000	1.350	108.049	14010.510	0.000589	±0.0000019	99.3	8.35	75.7	±270.3
8	11.50%	Δ	0.421	0.991	1.580	126.250	16360.260	0.000589	±0.0000018	99.2	9.75	54.8	±139.6
9	13.00%	Δ	0.547	4.405	2.034	164.098	21236.050	0.00059	±0.0000016	99.2	12.7	16.0	±8.5
10	14.00%	Δ	0.274	4.435	1.326	108.839	14082.040	0.00059	±0.0000019	99.4	8.41	10.6	±5.4
11	16.00%	Δ	0.427	19.341	2.135	167.095	21595.590	0.000591	±0.0000016	99.4	12.9	3.7	±0.5
12	19.00%	Δ	0.398	10.900	2.077	170.564	22063.510	0.00059	±0.0000016	99.5	13.2	6.7	±1.3

Sample number: D22, Position: 48.28 mm, J value = 0.0005891± 0.0000011

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		1.552	0.167	0.173	12.879	1420.270	0.000692	±0.0000062	75.4	0.79	33.1	±438.8
2	6.30%		1.402	0.000	0.646	48.735	6008.580	0.000619	±0.0000020	93.5	3	52.0	±323.5
3	7.50%		1.661	0.000	1.337	104.241	13110.110	0.000607	±0.0000015	96.3	6.42	64.5	±195.3
4	8.00%		0.866	1.259	1.085	83.201	10606.750	0.000599	±0.0000015	97.6	5.12	28.4	±45.7
5	8.60%	Δ	0.978	0.000	1.430	109.998	14189.160	0.000592	±0.0000014	98	6.77	96.3	±472.1
6	9.50%	Δ	0.807	0.112	1.839	141.724	18294.560	0.000591	±0.0000013	98.7	8.73	542.3	±9575.1
7	10.50%	Δ	0.592	0.892	2.132	165.078	21375.390	0.00059	±0.0000013	99.2	10.2	79.6	±187.0
8	11.50%	Δ	0.752	1.253	2.455	192.647	24994.990	0.000588	±0.0000013	99.1	11.9	66.1	±123.4
9	13.00%	Δ	0.913	3.536	2.592	204.338	26554.560	0.000587	±0.0000013	99	12.6	24.8	±14.7
10	14.00%	Δ	0.444	5.169	1.839	144.506	18772.670	0.000588	±0.0000013	99.3	8.9	12.0	±4.8
11	16.00%	Δ	0.548	4.635	2.081	166.265	21573.440	0.000588	±0.0000013	99.2	10.2	15.4	±6.8
12	19.00%	Δ	0.747	10.293	3.184	250.359	32427.260	0.000589	±0.0000013	99.3	15.4	10.5	±2.2

Sample number: D29, Position: 56.44 mm, J value = 0.0005868 ± 0.0000027

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		9.749	4.644	0.560	37.300	4241.660	0.000671	±0.0000124	59.3	3.53	3.5	±3.5
2	6.30%	Δ	4.755	1.275	0.845	63.673	8113.700	0.000599	±0.0000056	85.1	6.03	21.5	±80.4
3	7.50%	Δ	4.310	1.596	1.303	101.840	13096.880	0.000594	±0.0000039	91	9.64	27.4	±82.2
4	8.00%	Δ	1.593	2.665	0.938	64.705	8350.300	0.000592	±0.0000053	94.6	6.13	10.4	±18.4
5	8.60%	Δ	1.323	2.731	0.983	67.954	8793.860	0.00059	±0.0000051	95.7	6.43	10.7	±18.2
6	9.50%	Δ	0.956	0.000	0.952	74.152	9666.660	0.000586	±0.0000045	97.1	7.02	14.3	±11.7
7	10.50%	Δ	0.818	0.679	1.152	88.541	11541.480	0.000586	±0.0000040	97.9	8.38	56.0	±385.0
8	11.50%	Δ	0.786	2.213	1.114	84.859	11081.800	0.000585	±0.0000041	97.9	8.04	16.5	±33.5
9	13.00%	Δ	0.932	2.026	1.340	101.119	13216.050	0.000584	±0.0000037	97.9	9.57	21.5	±49.2
10	14.00%	Δ	0.483	2.905	0.955	73.831	9654.540	0.000584	±0.0000045	98.5	6.99	10.9	±17.7
11	16.00%	Δ	0.880	0.539	1.225	95.581	12479.010	0.000585	±0.0000038	97.9	9.05	76.2	±660.5
12	19.00%	Δ	1.510	3.803	2.656	202.519	26477.920	0.000584	±0.0000028	98.3	19.2	22.9	±28.7

Sample number: E1, Position: 0.61 mm, J value = 0.0005817 ± 0.0000014

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		3.113	0.246	0.245	19.051	2086.080	0.000697	±0.0000162	69.4	1.51	33.3	±333.0
2	6.30%		1.479	0.000	0.635	53.894	6777.500	0.000607	±0.0000055	93.9	4.28	31.8	±111.7
3	7.50%		1.472	0.000	1.316	108.016	13794.240	0.000598	±0.0000042	96.9	8.58	168.9	±1500.8
4	8.00%		0.847	0.000	1.320	104.953	13623.120	0.000588	±0.0000041	98.2	8.33	168.9	±1500.8
5	8.60%	Δ	0.459	0.000	1.197	93.927	12313.030	0.000582	±0.0000042	98.9	7.46	110.4	±710.1
6	9.50%	Δ	0.459	0.000	1.409	112.118	14710.380	0.000582	±0.0000040	99.1	8.9	44.8	±110.6
7	10.50%	Δ	0.328	0.000	1.396	108.099	14193.890	0.000581	±0.0000040	99.3	8.58	145.8	±1148.1
8	11.50%	Δ	0.404	0.830	1.578	120.453	15823.540	0.000581	±0.0000039	99.2	9.56	62.4	±174.7
9	13.00%	Δ	0.535	2.167	1.738	135.397	17775.080	0.000581	±0.0000038	99.1	10.8	26.9	±30.0
10	14.00%	Δ	0.287	1.478	1.401	110.286	14457.040	0.000582	±0.0000040	99.4	8.76	32.1	±48.7
11	16.00%	Δ	0.301	2.641	1.441	111.396	14614.200	0.000582	±0.0000040	99.4	8.84	18.1	±15.3
12	19.00%	Δ	0.516	5.305	2.298	181.965	23859.670	0.000582	±0.0000037	99.4	14.5	14.7	±6.5

Sample number: E19, Position: 9.71 mm, J value = 0.0005857 ± 0.0000012

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.348	1.550	0.450	39.698	4738.070	0.00064	±0.0000054	87.2	2.4	11.0	±16.4
2	6.30%		1.311	0.000	0.921	84.336	10725.080	0.0006	±0.0000039	96.5	5.1	71.9	±350.1
3	7.50%	Δ	1.471	0.590	1.526	133.040	17277.720	0.000588	±0.0000036	97.5	8.04	96.9	±382.1
4	8.00%	Δ	0.736	2.791	1.229	99.502	12890.310	0.000589	±0.0000037	98.3	6.01	15.3	±11.3
5	8.60%	Δ	0.620	1.623	1.353	109.456	14243.740	0.000587	±0.0000037	98.7	6.62	29.0	±34.0
6	9.50%	Δ	0.579	0.000	1.577	131.233	17119.780	0.000585	±0.0000036	99	7.93	66.9	±199.2
7	10.50%	Δ	0.545	1.215	1.995	166.942	21791.990	0.000585	±0.0000036	99.3	10.1	59.1	±109.0
8	11.50%	Δ	0.544	2.214	2.251	188.662	24658.140	0.000584	±0.0000036	99.3	11.4	36.6	±39.6
9	13.00%	Δ	0.780	4.555	2.891	242.198	31628.130	0.000585	±0.0000036	99.3	14.6	22.9	±13.0
10	14.00%	Δ	0.412	3.928	2.158	179.930	23494.200	0.000585	±0.0000036	99.5	10.9	19.7	±11.5
11	19.00%	Δ	0.726	15.414	3.284	279.255	36413.270	0.000585	±0.0000036	99.4	16.9	7.8	±1.3

Sample number: E25, Position: 19.14 mm, J value = 0.0005880 ± 0.0000011

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		1.887	0.000	1.480	125.499	15495.950	0.000618	±0.0000038	96.5	13.3	35.9	±60.0
2	6.30%	Δ	0.727	0.000	1.582	136.668	17647.870	0.000591	±0.0000036	98.8	14.5	38.3	±59.3
3	7.50%	Δ	0.593	0.000	1.714	150.352	19538.180	0.000587	±0.0000036	99.1	15.9	56.4	±119.4
4	8.00%	Δ	0.221	0.000	0.914	77.928	10157.810	0.000586	±0.0000036	99.4	8.24	53.5	±208.2
5	8.60%	Δ	0.208	0.552	0.851	73.474	9555.740	0.000587	±0.0000036	99.4	7.77	57.3	±245.5
6	9.50%	Δ	0.206	2.050	0.761	67.436	8761.530	0.000588	±0.0000036	99.3	7.13	14.1	±14.5
7	10.50%	Δ	0.232	3.904	0.926	81.247	10535.270	0.000589	±0.0000036	99.3	8.59	8.9	±4.9
8	11.50%	Δ	0.150	2.121	0.647	54.058	7008.110	0.000589	±0.0000037	99.4	5.72	11.0	±11.5
9	13.00%	Δ	0.114	0.000	0.498	40.552	5264.430	0.000588	±0.0000038	99.4	4.29	21.3	±60.2
10	14.00%	Δ	0.069	0.000	0.452	36.498	4738.760	0.000588	±0.0000038	99.6	3.86	15.9	±40.8
11	16.00%	Δ	0.071	0.000	0.384	31.919	4145.430	0.000588	±0.0000038	99.5	3.38	11.5	±25.6
12	19.00%	Δ	0.134	1.914	0.841	69.988	9079.390	0.000588	±0.0000036	99.6	7.4	15.7	±16.2

Sample number: E31, Position: 32.92 mm, J value = 0.0005902 ± 0.0000012

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.603	0.000	0.224	18.947	2087.410	0.000693	±0.0000124	73.1	1.41	3.6	±3.4
2	6.30%		1.698	0.000	0.656	55.533	6892.930	0.000615	±0.0000047	93.2	4.14	14.2	±20.2
3	7.50%	Δ	1.376	0.000	1.187	97.858	12593.120	0.000593	±0.0000039	96.9	7.3	28.8	±43.1
4	8.00%	Δ	0.614	0.000	0.883	73.655	9518.040	0.000591	±0.0000040	98.1	5.49	12.3	±11.1
5	8.60%	Δ	0.448	0.000	0.939	76.957	9965.660	0.000589	±0.0000040	98.7	5.74	14.5	±15.6
6	9.50%	Δ	0.512	0.263	1.293	105.140	13600.270	0.00059	±0.0000038	98.9	7.84	171.9	±1345.7
7	10.50%	Δ	0.426	0.719	1.443	114.638	14831.280	0.00059	±0.0000038	99.2	8.55	68.5	±197.2
8	11.50%	Δ	0.372	2.362	1.414	112.126	14529.890	0.000589	±0.0000038	99.2	8.36	20.4	±20.5
9	13.00%	Δ	0.389	1.300	1.628	129.900	16836.740	0.000589	±0.0000037	99.3	9.69	43.0	±70.8
10	14.00%	Δ	0.186	1.034	1.164	93.077	12042.400	0.00059	±0.0000039	99.5	6.94	38.7	±70.6
11	16.00%	Δ	0.422	4.558	2.024	165.471	21393.850	0.00059	±0.0000037	99.4	12.3	15.6	±8.2
12	19.00%	Δ	0.891	15.494	3.632	297.545	38463.310	0.000591	±0.0000036	99.3	22.2	8.3	±1.3



Sample number: E41, Position: 48.73 mm, J value = 0.0005855 ± 0.0000014

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	3.50%	0.695	0.000	0.038	4.475	383.200	0.000891	±0.0000493	64.9	0.26	-	-
2	5.00%	1.229	0.000	0.504	42.307	5007.250	0.000645	±0.0000034	93.2	2.44	40.6	±161.1
3	6.20%	1.797	0.718	1.296	101.969	12987.930	0.000599	±0.0000018	96	5.87	61.1	±162.7
4	7.20%	1.345	0.343	1.973	152.556	19709.070	0.000591	±0.0000015	98	8.78	191.4	±975.0
5	8.00%	Δ 0.713	0.226	1.934	150.576	19655.090	0.000585	±0.0000015	98.9	8.67	285.9	±2501.4
6	8.80%	Δ 0.646	0.410	1.758	136.098	17794.510	0.000584	±0.0000016	98.9	7.83	142.9	±727.7
7	9.50%	Δ 0.367	1.329	1.404	107.571	14050.750	0.000584	±0.0000016	99.2	6.19	34.8	±52.3
8	10.50%	Δ 0.538	2.628	1.766	133.267	17417.340	0.000584	±0.0000016	99.1	7.67	21.8	±15.5
9	11.50%	Δ 0.507	2.179	1.907	146.880	19223.600	0.000583	±0.0000015	99.2	8.45	29.0	±24.4
10	13.00%	Δ 0.766	13.657	2.865	223.547	29164.460	0.000585	±0.0000014	99.2	12.9	7.0	±1.1
11	15.00%	Δ 0.566	14.560	3.002	233.528	30374.870	0.000587	±0.0000014	99.4	13.4	6.9	±0.9
12	17.00%	Δ 0.298	8.487	1.560	121.126	15714.230	0.000588	±0.0000016	99.4	6.97	6.1	±1.4
13	20.00%	Δ 0.206	7.301	0.986	76.679	9921.850	0.00059	±0.0000019	99.4	4.41	4.5	±1.3
14	30.00%	0.369	5.035	0.819	64.855	8311.150	0.000596	±0.0000021	98.7	3.73	5.5	±2.3
15	40.00%	0.386	5.168	0.530	42.028	5345.680	0.0006	±0.0000030	97.9	2.42	3.5	±1.3

Sample number: E47, Position: 56.96 mm, J value = 0.0005817 ± 0.0000007

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	2.00%		0.046	1.740	0.001	0.244	7.390	0.002524	±0.0048642	35	0.01	0.1	±0.1
2	2.50%		0.066	0.138	0.000	0.265	12.190	0.001657	±0.0020003	38.2	0.02	0.8	±10.6
3	3.00%		0.181	0.049	0.005	0.792	41.540	0.001456	±0.0005295	43.4	0.05	6.9	±244.6
4	4.00%		1.086	0.910	0.105	6.077	595.020	0.00078	±0.0000244	64.7	0.35	2.9	±5.5
5	5.00%		2.103	0.248	0.383	27.405	3436.600	0.000609	±0.0000042	84.6	1.56	47.5	±359.1
6	6.00%		2.063	3.145	0.747	54.713	7055.970	0.000592	±0.0000023	92	3.11	7.5	±4.7
7	7.00%		1.268	0.729	0.820	59.184	7655.920	0.00059	±0.0000021	95.3	3.36	34.9	±87.2
8	8.50%		3.871	3.310	4.832	361.936	47082.120	0.000587	±0.0000014	97.6	20.6	47.0	±26.2
9	9.20%	Δ	1.143	3.507	3.478	261.774	34409.990	0.000581	±0.0000013	99	14.9	32.1	±17.5
10	10.00%	Δ	0.503	3.167	2.050	153.350	20150.110	0.000581	±0.0000014	99.3	8.72	20.8	±12.7
11	11.00%	Δ	0.398	4.634	2.195	167.525	21967.250	0.000582	±0.0000014	99.5	9.52	15.5	±5.8
12	12.00%	Δ	0.351	5.548	1.905	143.457	18823.740	0.000582	±0.0000014	99.4	8.15	11.1	±3.9
13	14.00%	Δ	0.560	20.334	3.286	246.601	32367.090	0.000582	±0.0000013	99.5	14	5.2	±0.5
14	17.00%	Δ	0.299	13.943	1.618	122.521	16034.700	0.000583	±0.0000015	99.4	6.96	3.8	±0.5
15	25.00%	Δ	0.290	19.639	1.587	119.218	15620.350	0.000583	±0.0000015	99.4	6.78	2.6	±0.3
16	40.00%		0.228	7.364	0.488	34.434	4485.370	0.000586	±0.0000031	98.5	1.96	2.0	±0.5

Sample number: E55, Position: 64.26 mm, J value = 0.0005776± 0.0000017

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		1.353	0.805	0.218	16.708	1916.010	0.000666	±0.0000083	82.6	1.43	8.9	±27.5
2	6.30%		1.316	0.000	0.476	36.928	4741.460	0.000595	±0.0000039	92.3	3.16	19.0	±59.2
3	7.50%		1.211	0.701	0.677	53.512	6949.110	0.000588	±0.0000032	95.1	4.58	32.8	±106.3
4	8.00%		0.802	0.000	0.472	38.141	4964.490	0.000586	±0.0000037	95.4	3.26	10.7	±16.7
5	8.60%		0.728	0.000	0.591	45.062	5886.150	0.000584	±0.0000034	96.4	3.86	10.6	±12.6
6	9.50%		0.766	0.326	0.808	60.454	7918.650	0.000583	±0.0000030	97.2	5.17	79.6	±585.7
7	10.50%	Δ	0.897	0.621	1.126	84.803	11147.230	0.000581	±0.0000027	97.6	7.26	58.7	±204.7
8	11.50%	Δ	0.946	0.888	1.480	110.579	14559.510	0.00058	±0.0000026	98.1	9.46	53.5	±147.9
9	13.00%	Δ	1.095	2.464	2.343	173.321	22896.330	0.000578	±0.0000024	98.6	14.8	30.2	±25.5
10	14.00%	Δ	0.586	1.580	1.891	139.277	18443.570	0.000576	±0.0000025	99.1	11.9	37.9	±55.2
11	16.00%	Δ	0.706	4.614	2.463	181.773	24079.040	0.000576	±0.0000024	99.1	15.6	16.9	±9.5
12	19.00%	Δ	0.880	4.618	3.062	228.010	30249.860	0.000575	±0.0000024	99.1	19.5	21.2	±10.5

Sample number: F5, Position: 7.91 mm, J value = 0.0005918± 0.0000012

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		1.715	0.417	0.785	60.744	7365.420	0.00063	±0.0000045	93.5	5.38	62.7	±254.1
2	6.30%	Δ	1.144	0.000	1.357	112.247	14374.510	0.000596	±0.0000038	97.7	9.95	226.7	±2100.4
3	7.50%	Δ	0.746	0.346	1.816	151.257	19541.840	0.000591	±0.0000036	98.9	13.4	187.8	±1063.0
4	8.30%	Δ	0.286	0.933	1.014	85.017	11003.500	0.00059	±0.0000038	99.2	7.53	39.2	±73.1
5	9.30%	Δ	0.367	1.467	1.259	98.642	12747.920	0.000591	±0.0000038	99.1	8.74	28.9	±35.3
6	10.00%	Δ	0.206	0.980	0.823	68.039	8796.790	0.00059	±0.0000039	99.3	6.03	29.9	±55.8
7	11.00%	Δ	0.222	2.671	1.093	88.538	11428.530	0.000591	±0.0000038	99.4	7.85	14.3	±10.3
8	12.00%	Δ	0.219	2.800	1.115	88.249	11388.150	0.000592	±0.0000038	99.4	7.82	13.6	±9.3
9	13.50%	Δ	0.177	2.374	0.850	66.684	8589.940	0.000593	±0.0000040	99.4	5.91	12.1	±8.9
10	15.00%	Δ	0.121	1.963	0.769	61.420	7920.240	0.000592	±0.0000040	99.5	5.44	13.5	±13.7
11	17.00%	Δ	0.109	2.645	0.718	56.959	7341.740	0.000592	±0.0000041	99.6	5.05	9.3	±7.5
12	25.00%	Δ	0.369	11.073	2.338	190.502	24549.760	0.000592	±0.0000036	99.5	16.9	7.4	±1.3

Sample number: F1, Position: 0.66 mm, J value = 0.0005903± 0.0000009

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	6.30%		0.091	0.000	0.195	12.478	1595.171	0.000597	±0.0000041	98.3	3.87	-	-
2	7.50%	Δ	0.196	7.432	0.495	36.024	4655.873	0.000591	±0.0000019	98.8	11.2	2.1	±6.61
3	8.30%	Δ	0.259	5.362	0.485	34.906	4501.689	0.000592	±0.0000019	98.3	10.8	2.8	±11.22
4	9.30%	Δ	0.435	6.936	0.328	25.350	3281.785	0.00059	±0.0000024	96.2	7.86	1.6	±4.82
5	10.00%	Δ	0.206	0.000	0.316	24.775	3205.737	0.00059	±0.0000023	98.1	7.68	1.8	±5.91
6	11.00%	Δ	0.108	0.000	0.231	18.267	2368.190	0.000589	±0.0000028	98.6	5.67	1.8	±5.91
7	12.00%	Δ	0.129	11.440	0.283	21.322	2763.279	0.000589	±0.0000026	98.6	6.61	0.8	±1.47
8	13.50%	Δ	0.096	0.000	0.283	20.262	2611.617	0.000592	±0.0000027	98.9	6.28	0.9	±1.91
9	15.00%	Δ	0.124	0.000	0.370	27.322	3525.328	0.000592	±0.0000022	99	8.47	0.9	±1.91
10	15.00%	Δ	0.113	0.000	0.309	24.307	3132.583	0.000592	±0.0000024	98.9	7.54	0.9	±1.91
11	17.00%	Δ	0.100	0.000	0.208	17.688	2287.873	0.00059	±0.0000029	98.7	5.49	0.9	±1.91
12	20.00%	Δ	0.094	0.000	0.207	15.813	2045.534	0.00059	±0.0000031	98.6	4.9	2.4	±17.15
13	25.00%	Δ	0.245	8.366	0.214	18.597	2419.465	0.000587	±0.0000028	97.1	5.77	1.0	±2.55
14	30.00%	Δ	0.100	9.388	0.208	12.568	1633.013	0.000587	±0.0000041	98.2	3.9	0.6	±1.43
15	40.00%	Δ	0.179	8.521	0.132	12.774	1657.887	0.000588	±0.0000037	96.9	3.96	0.64	±1.54

Sample number: F11, Position: 16.64 mm, J value = 0.0005902 ± 0.0000013

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		1.329	1.873	0.567	42.650	5129.880	0.000635	±0.0000108	92.8	3.27	9.8	±8.8
2	6.30%		1.211	2.054	1.269	100.998	12896.270	0.000598	±0.0000046	97.3	7.75	21.1	±18.8
3	7.50%	Δ	0.935	1.206	2.023	162.971	21052.960	0.000591	±0.0000034	98.7	12.5	58.1	±86.4
4	8.30%	Δ	0.362	0.053	1.616	129.887	16809.280	0.00059	±0.0000038	99.4	9.97	1047.1	±31122.4
5	9.30%	Δ	0.318	0.807	1.563	123.975	16079.320	0.000589	±0.0000039	99.4	9.51	66.0	±163.5
6	10.00%	Δ	0.269	0.000	1.144	92.012	11935.780	0.000588	±0.0000048	99.3	7.06	26.8	±32.5
7	11.00%	Δ	0.331	0.900	1.333	108.787	14096.540	0.000589	±0.0000043	99.3	8.35	52.0	±88.0
8	12.00%	Δ	0.266	2.191	1.243	100.566	13030.860	0.000589	±0.0000045	99.4	7.72	19.7	±15.7
9	13.50%	Δ	0.299	5.887	1.646	133.792	17312.920	0.00059	±0.0000038	99.5	10.3	9.8	±2.6
10	15.00%	Δ	0.219	4.116	1.578	129.530	16715.460	0.000592	±0.0000038	99.6	9.94	13.5	±5.2
11	17.00%	Δ	0.187	8.497	1.403	113.888	14658.210	0.000593	±0.0000042	99.6	8.74	5.8	±1.1
12	20.00%	Δ	0.076	6.876	0.780	63.900	8244.110	0.000592	±0.0000065	99.7	4.9	4.0	±1.2

Sample number: F18, Position: 25.96 mm, J value = 0.0005896 ± 0.0000016

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.901	0.633	0.450	33.397	3759.710	0.000678	±0.0000076	81.3	1.94	22.7	±70.5
2	6.30%		1.373	0.995	1.191	93.078	11671.670	0.000609	±0.0000040	96.6	5.4	40.2	±70.5
3	7.50%		1.712	0.713	1.890	149.724	18884.440	0.000605	±0.0000038	97.4	8.68	90.3	±231.8
4	8.30%		1.441	2.234	2.411	187.501	24073.550	0.000595	±0.0000037	98.2	10.9	36.1	±30.7
5	9.30%	Δ	1.126	0.980	3.121	243.816	31545.070	0.00059	±0.0000036	98.9	14.1	107	±226.1
6	10.50%	Δ	0.979	2.813	3.236	253.753	32883.850	0.000589	±0.0000036	99.1	14.7	38.8	±26.2
7	12.00%	Δ	1.201	4.872	4.277	334.889	43415.880	0.000589	±0.0000036	99.2	19.4	29.6	±12.7
8	15.50%	Δ	0.829	9.558	3.427	268.885	34813.630	0.00059	±0.0000036	99.3	15.6	12.1	±2.3
9	18.00%	Δ	0.457	8.179	1.997	158.922	20530.940	0.000591	±0.0000037	99.3	9.22	8.4	±2.0

Sample number: F24, Position: 35.09 mm, J value = 0.0005881 ± 0.0000022

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.772	1.290	0.871	66.069	8026.960	0.000628	±0.0000045	90.6	4.27	22.0	±32.4
2	6.30%		1.485	1.503	1.641	123.916	15951.360	0.000593	±0.0000037	97.3	8	35.4	±46.1
3	7.50%	Δ	1.125	1.232	2.348	179.098	23285.890	0.000587	±0.0000036	98.6	11.6	62.5	±95.1
4	8.30%	Δ	0.618	0.986	1.764	133.640	17423.680	0.000585	±0.0000037	98.9	8.63	58.3	±112.2
5	9.30%	Δ	0.432	1.181	1.751	137.050	17865.960	0.000586	±0.0000036	99.3	8.85	49.9	±85.4
6	10.50%	Δ	0.487	3.813	2.020	154.173	20102.000	0.000585	±0.0000036	99.3	9.95	17.4	±8.0
7	12.00%	Δ	0.439	5.424	2.086	158.648	20622.700	0.000587	±0.0000036	99.4	10.2	12.6	±4.9
8	14.00%	Δ	0.541	7.948	2.383	183.525	23822.550	0.000588	±0.0000036	99.3	11.9	9.9	±2.5
9	15.50%	Δ	0.511	8.121	2.540	192.391	24968.200	0.000588	±0.0000036	99.4	12.4	10.2	±2.4
10	18.00%	Δ	0.406	6.426	1.862	143.919	18433.690	0.000596	±0.0000037	99.3	9.29	9.6	±3.2
11	30.00%	Δ	0.184	9.800	0.981	76.320	9865.400	0.000591	±0.0000038	99.4	4.93	3.3	±0.7

Sample number: F30, Position: 44.26 mm, J value = 0.0005831 ± 0.0000018

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.657	1.209	1.328	95.225	11494.530	0.000632	±0.0000040	93.5	5.8	33.9	±57.0
2	6.50%	Δ	1.834	2.565	3.249	240.168	31201.180	0.000588	±0.0000036	98.3	14.6	40.3	±33.8
3	7.50%	Δ	0.684	1.176	2.667	198.544	26082.810	0.000581	±0.0000035	99.2	12.1	72.6	±130.9
4	8.30%	Δ	0.487	2.807	1.969	146.220	19241.770	0.00058	±0.0000036	99.2	8.91	22.4	±16.2
5	9.30%	Δ	0.552	3.863	2.239	165.244	21788.020	0.000579	±0.0000035	99.2	10.1	18.4	±9.5
6	10.50%	Δ	0.634	4.791	2.532	187.686	24684.850	0.00058	±0.0000035	99.2	11.4	16.8	±7.0
7	12.00%	Δ	0.758	10.843	3.103	230.232	30138.540	0.000583	±0.0000035	99.2	14	9.1	±1.9
8	14.00%	Δ	0.381	9.672	1.664	120.431	15711.140	0.000585	±0.0000036	99.3	7.33	5.4	±1.2
9	15.50%	Δ	0.073	4.559	0.891	63.028	8222.380	0.000585	±0.0000036	99.7	3.84	5.9	±3.1
10	18.00%	Δ	0.090	7.791	0.952	67.908	8850.400	0.000586	±0.0000036	99.7	4.14	3.7	±1.0
11	30.00%	Δ	0.216	25.046	1.723	127.184	16623.270	0.000584	±0.0000035	99.6	7.75	2.2	±0.2

Sample number: F34, Position: 50.64 mm, J value = 0.0005806 ± 0.0000016

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%	3.252	0.357	0.411	28.814	3085.570	0.000713	±0.0000113	76.1	2.14	34.7	±184.1
2	6.50%	1.976	0.906	1.066	77.102	9768.700	0.000602	±0.0000045	94.3	5.73	36.6	±71.1
3	7.50%	1.213	0.000	1.235	90.403	11719.480	0.000589	±0.0000041	97	6.72	89.0	±434.6
4	8.30%	Δ 1.241	0.349	1.675	122.419	16002.440	0.000584	±0.0000038	97.7	9.1	151.0	±865.9
5	9.30%	Δ 1.003	0.797	2.232	163.271	21448.820	0.000581	±0.0000037	98.6	12.1	88.1	±221.5
6	10.50%	Δ 0.826	1.881	2.473	179.502	23662.230	0.000579	±0.0000037	99	13.3	41.0	±38.4
7	12.00%	Δ 0.831	2.239	2.828	204.701	27022.320	0.000578	±0.0000036	99.1	15.2	39.3	±30.3
8	14.00%	Δ 0.989	3.246	2.858	211.189	27871.200	0.000578	±0.0000036	98.9	15.7	28.0	±15.8
9	25.00%	Δ 0.266	7.245	1.208	85.813	11254.320	0.000582	±0.0000041	99.3	6.38	5.1	±1.4
10	40.00%	Δ 0.679	22.751	2.440	182.540	23943.820	0.000582	±0.0000036	99.2	13.6	3.5	±0.3

Sample number: F41, Position: 62.28 mm, J value = 0.0005725 ± 0.0000016

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%	2.902	2.313	1.147	80.508	9653.710	0.000637	±0.0000042	91.8	4.85	15.0	±15.5
2	6.50%	1.939	1.489	2.360	166.491	21687.900	0.000586	±0.0000021	97.4	10	48.1	±61.6
3	7.50%	Δ 1.354	1.442	2.897	204.046	27066.520	0.000575	±0.0000018	98.5	12.3	60.9	±85.1
4	8.30%	Δ 0.982	2.504	2.840	198.885	26555.330	0.000572	±0.0000019	98.9	12	34.2	±27.4
5	9.00%	Δ 0.444	0.000	1.891	131.348	17557.540	0.000571	±0.0000023	99.2	7.92	29.7	±22.3
6	10.00%	Δ 0.438	0.142	1.867	131.000	17527.920	0.000571	±0.0000024	99.3	7.9	396.8	±6257.4
7	11.50%	Δ 0.513	2.414	2.197	153.162	20504.700	0.00057	±0.0000021	99.3	9.23	27.3	±23.7
8	13.00%	Δ 0.581	2.491	2.248	155.558	20824.440	0.00057	±0.0000021	99.2	9.38	26.9	±20.9
9	15.00%	Δ 0.444	4.835	2.225	157.526	21027.970	0.000572	±0.0000021	99.4	9.5	14.0	±6.6
10	30.00%	Δ 0.720	32.054	3.637	258.994	34361.670	0.000575	±0.0000016	99.4	15.6	3.5	±0.2
11	40.00%	0.524	0.880	0.299	21.457	2758.750	0.000594	±0.0000130	94.6	1.29	10.5	±24.6

Sample number: H1, Position: 0.50 mm, J value = 0.0005725 ± 0.0000016

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.430	2.880	1.469	119.229	15399.590	0.000591	±0.0000027	95.5	7.9	17.8	±11.8
2	6.30%	Δ	1.256	2.618	2.111	173.677	23553.380	0.000563	±0.0000019	98.4	11.5	28.5	±24.9
3	7.50%	Δ	0.823	2.925	2.409	195.452	26712.010	0.000559	±0.0000018	99.1	12.9	28.7	±16.2
4	8.00%	Δ	0.328	1.028	1.360	108.980	14894.980	0.000559	±0.0000026	99.3	7.22	45.6	±77.0
5	8.60%	Δ	0.242	0.647	1.046	84.936	11589.630	0.000559	±0.0000031	99.4	5.63	56.5	±158.6
6	9.50%	Δ	0.323	2.323	1.335	105.388	14385.780	0.000559	±0.0000026	99.3	6.98	19.5	±19.1
7	10.50%	Δ	0.295	1.573	1.435	120.003	16379.530	0.000559	±0.0000024	99.5	7.95	32.8	±41.5
8	11.50%	Δ	0.311	3.572	1.539	127.761	17433.370	0.000559	±0.0000023	99.5	8.46	15.4	±9.4
9	13.00%	Δ	0.297	5.970	1.478	120.317	16386.850	0.00056	±0.0000024	99.5	7.97	8.7	±3.0
10	15.00%	Δ	0.232	10.103	1.470	122.244	16631.290	0.000561	±0.0000024	99.6	8.1	5.2	±1.1
11	17.00%	Δ	0.234	15.660	1.360	118.701	16151.780	0.000561	±0.0000024	99.6	7.86	3.3	±0.4
12	20.00%	Δ	0.210	16.779	1.341	113.204	15360.190	0.000563	±0.0000025	99.6	7.5	2.9	±0.3

Sample number: H7, Position: 14.38 mm, J value = 0.0005676 ± 0.0000006

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		1.850	1.712	0.472	36.153	4399.500	0.000627	±0.0000033	88.9	2.26	9.1	±11.4
2	6.30%		1.157	0.000	0.838	67.759	8828.310	0.000586	±0.0000019	96.3	4.24	-	-
3	7.50%		1.515	0.920	1.429	113.444	14933.920	0.00058	±0.0000016	97.1	7.11	53.0	±127.3
4	8.00%		0.962	1.723	1.343	107.972	14363.950	0.000574	±0.0000016	98.1	6.76	26.9	±31.4
5	8.60%	Δ	0.756	1.075	1.533	125.588	16837.170	0.000569	±0.0000014	98.7	7.87	50.3	±99.8
6	9.50%	Δ	0.930	2.370	2.251	179.783	24187.450	0.000567	±0.0000013	98.9	11.3	32.6	±28.3
7	10.50%	Δ	0.707	4.756	2.392	196.287	26380.750	0.000568	±0.0000013	99.2	12.3	17.7	±7.1
8	11.50%	Δ	0.745	2.628	2.364	197.729	26623.180	0.000567	±0.0000013	99.2	12.4	32.4	±28.9
9	13.00%	Δ	1.105	7.215	3.243	265.769	35755.680	0.000567	±0.0000013	99.1	16.7	15.8	±5.4
10	17.00%	Δ	0.736	18.282	2.471	203.712	27401.350	0.000568	±0.0000013	99.2	12.8	4.8	±0.6
11	20.00%	Δ	0.308	12.763	1.185	102.043	13730.040	0.000567	±0.0000015	99.3	6.39	3.4	±0.5



Sample number: H12, Position: 25.31 mm, J value = 0.0005703 ± 0.0000005

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		3.915	3.369	0.709	50.534	6160.720	0.000626	±0.0000023	84.2	2.69	6.4	±5.9
2	6.30%		1.794	3.727	1.271	101.753	13454.980	0.000577	±0.0000015	96.2	5.42	11.7	±10.2
3	7.50%	Δ	1.753	2.387	2.048	163.751	21851.010	0.000572	±0.0000012	97.7	8.72	29.5	±39.0
4	8.00%	Δ	0.754	0.894	1.591	128.068	17103.800	0.000572	±0.0000013	98.7	6.82	61.6	±216.2
5	8.60%	Δ	0.801	0.826	1.746	140.583	18824.100	0.00057	±0.0000013	98.8	7.49	73.2	±276.4
6	9.50%	Δ	0.615	1.627	1.771	143.320	19210.100	0.00057	±0.0000013	99.1	7.63	37.9	±73.4
7	10.50%	Δ	0.479	1.923	1.841	149.909	20072.800	0.00057	±0.0000012	99.3	7.98	33.5	±58.2
8	11.50%	Δ	0.505	0.085	1.810	146.320	19577.050	0.000571	±0.0000013	99.2	7.79	743.7	±27663.6
9	13.00%	Δ	0.715	3.299	2.447	197.392	26424.290	0.00057	±0.0000012	99.2	10.5	25.7	±23.2
10	14.00%	Δ	0.281	0.944	1.540	123.349	16497.760	0.000571	±0.0000013	99.5	6.57	56.2	±190.6
11	16.00%	Δ	0.558	7.701	2.652	214.499	28750.420	0.00057	±0.0000012	99.4	11.4	12.0	±5.1
12	19.00%	Δ	0.927	20.308	3.975	318.252	42649.550	0.00057	±0.0000012	99.4	17	6.7	±1.1

Sample number: H18, Position: 34.22 mm, J value = 0.0005715 ± 0.0000006

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		1.733	4.351	0.450	36.034	4318.300	0.000637	±0.0000050	89.4	3.52	3.6	±2.1
2	6.30%		1.358	3.188	1.066	82.459	10853.100	0.00058	±0.0000021	96.4	8.07	11.1	±8.3
3	7.50%	Δ	0.961	2.800	1.616	126.180	16852.350	0.000572	±0.0000016	98.3	12.3	19.4	±17.3
4	8.00%	Δ	0.352	0.968	1.008	79.557	10624.810	0.000572	±0.0000021	99	7.78	35.3	±91.3
5	8.60%	Δ	0.246	2.385	0.929	71.177	9503.910	0.000572	±0.0000023	99.2	6.96	12.8	±14.5
6	9.50%	Δ	0.268	0.039	0.962	77.156	10300.380	0.000572	±0.0000022	99.2	7.55	844.5	±52479.6
7	10.50%	Δ	0.221	0.000	0.923	75.173	10034.890	0.000572	±0.0000022	99.3	7.35	28.6	±52.3
8	11.50%	Δ	0.202	1.636	0.890	73.141	9773.100	0.000571	±0.0000022	99.4	7.15	19.2	±29.5
9	13.00%	Δ	0.238	2.882	1.132	88.640	11821.100	0.000572	±0.0000020	99.4	8.67	13.2	±11.0
10	14.00%	Δ	0.188	4.324	1.010	78.994	10552.160	0.000571	±0.0000021	99.5	7.73	7.9	±4.5
11	16.00%	Δ	0.243	6.108	1.304	103.574	13835.380	0.000571	±0.0000018	99.5	10.1	7.3	±2.8
12	19.00%	Δ	0.335	9.284	1.662	130.157	17398.200	0.000571	±0.0000016	99.4	12.7	6.0	±1.7

Sample number: H32, Position: 52.29 mm, J value = 0.0005660 ± 0.0000009

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		2.041	2.081	0.549	41.545	4919.540	0.000645	±0.0000064	89	2.46	8.6	±16.2
2	6.30%		2.122	2.116	2.084	156.290	20581.490	0.00058	±0.0000018	97	9.25	31.8	±59.3
3	7.50%	Δ	1.418	3.686	3.180	239.168	32188.560	0.000567	±0.0000015	98.7	14.2	27.9	±30.6
4	8.00%	Δ	0.450	2.666	1.964	146.905	19839.810	0.000565	±0.0000018	99.3	8.7	23.7	±34.6
5	8.60%	Δ	0.456	0.743	1.816	136.401	18459.270	0.000564	±0.0000019	99.3	8.07	79.0	±418.7
6	9.50%	Δ	0.489	1.374	1.778	133.918	18115.040	0.000564	±0.0000019	99.2	7.93	41.9	±118.3
7	10.50%	Δ	0.411	2.031	1.903	143.706	19433.930	0.000564	±0.0000018	99.4	8.51	30.4	±57.5
8	11.50%	Δ	0.460	0.152	2.269	173.228	23367.140	0.000566	±0.0000017	99.4	10.3	489.9	±13129.1
9	13.00%	Δ	0.555	10.079	3.138	237.350	31969.800	0.000567	±0.0000015	99.5	14.1	10.1	±3.9
10	14.00%	Δ	0.153	8.664	1.371	107.595	14460.020	0.000568	±0.0000022	99.7	6.37	5.3	±2.4
11	16.00%	Δ	0.096	8.567	1.010	77.963	10477.060	0.000568	±0.0000028	99.7	4.62	3.9	±1.8
12	19.00%	Δ	0.151	13.031	1.257	95.239	12805.720	0.000568	±0.0000024	99.6	5.64	3.1	±0.9

Sample number: H36, Position: 59.92 mm, J value = 0.0005608 ± 0.0000005

Step	Laser power		<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s
1	5.00%		9.083	2.649	0.830	55.008	6617.410	0.000622	±0.0000046	70.9	3.23	8.9	±6.3
2	6.30%		1.967	3.266	1.692	123.350	16411.810	0.000562	±0.0000018	96.5	7.25	16.2	±9.8
3	7.50%		1.763	2.126	2.572	188.247	25488.390	0.000553	±0.0000015	98	11.1	38.1	±33.0
4	8.00%	Δ	0.766	0.718	1.879	138.115	18800.720	0.00055	±0.0000016	98.8	8.12	82.7	±239.5
5	8.60%	Δ	0.653	2.668	2.062	149.940	20435.350	0.000549	±0.0000015	99	8.82	24.2	±16.2
6	9.50%	Δ	0.552	1.421	2.262	163.828	22309.000	0.000549	±0.0000015	99.3	9.63	49.6	±67.4
7	10.50%	Δ	0.534	2.390	2.382	178.030	24267.580	0.000549	±0.0000015	99.3	10.5	32.0	±25.5
8	11.50%	Δ	0.546	3.606	2.360	173.957	23674.240	0.00055	±0.0000014	99.3	10.2	20.7	±11.9
9	13.00%	Δ	0.651	9.535	2.852	211.809	28810.490	0.00055	±0.0000014	99.3	12.5	9.6	±1.9
10	14.00%	Δ	0.197	3.932	1.360	99.197	13486.430	0.00055	±0.0000019	99.6	5.83	10.8	±5.0
11	16.00%	Δ	0.191	5.835	1.250	88.639	12053.630	0.00055	±0.0000020	99.5	5.21	6.5	±2.3
12	19.00%	Δ	0.237	12.199	1.791	130.845	17783.500	0.00055	±0.0000016	99.6	7.69	4.6	±0.7

Sample number: H43, Position: 64.59 mm, J value = 0.0005576± 0.0000007

Step	Laser power	<sup>36</sup> Ar <sub>air</sub>	<sup>37</sup> Ar <sub>Ca</sub>	<sup>38</sup> Ar <sub>Cl</sub>	<sup>39</sup> Ar <sub>K</sub>	<sup>40</sup> Ar*	Age (Ma)	± 2s	<sup>40</sup> Ar* (%)	<sup>39</sup> Ar <sub>K</sub> (%)	K/Ca	± 2s	
1	5.00%	1.958	0.891	0.253	20.209	2407.160	0.000641	±0.0000050	80.5	1.5	9.8	±25.3	
2	6.30%	1.194	0.000	0.573	44.604	5881.530	0.000579	±0.0000028	94.3	3.31	61.5	±388.2	
3	7.50%	1.407	0.000	1.173	86.179	11517.350	0.000571	±0.0000025	96.5	6.4	61.5	±388.2	
4	8.00%	0.756	1.678	1.193	87.385	11830.860	0.000564	±0.0000024	98.1	6.49	22.4	±28.8	
5	8.60%	Δ	0.532	1.768	1.380	98.243	13401.500	0.00056	±0.0000024	98.8	7.3	23.9	±26.9
6	9.50%	Δ	0.533	0.219	1.767	128.200	17555.840	0.000557	±0.0000023	99.1	9.53	251.2	±2589.2
7	10.50%	Δ	0.424	0.486	1.837	133.916	18380.110	0.000556	±0.0000023	99.3	9.95	118.6	±502.7
8	11.50%	Δ	0.349	3.303	1.574	114.174	15658.650	0.000557	±0.0000023	99.3	8.48	14.9	±8.5
9	13.00%	Δ	0.518	5.495	2.005	146.204	20061.680	0.000556	±0.0000023	99.2	10.9	11.4	±4.6
10	14.00%	Δ	0.328	3.708	1.524	111.776	15302.960	0.000558	±0.0000023	99.4	8.31	13.0	±7.2
11	16.00%	Δ	0.477	5.358	2.420	180.793	24718.400	0.000558	±0.0000023	99.4	13.4	14.5	±5.7
12	19.00%	Δ	0.474	9.706	2.598	194.098	26484.220	0.000559	±0.0000023	99.5	14.4	8.6	±1.9