

Instrument Summary:

Instrument ID: iCAP Q
Serial Number: Undefined

Labbook Summary:

Path and filename: _Application Data\Workspace\LabBooks\wlw\20211028-1.imexp
Labbook created by: Administrator
Based on template:
Hardware configuration: iCAPQ1
Labbook type: eQuant
Qtegra version (last saved): 2.7.2425.154
Labbook started: 10/28/2021 2:54:57 PM
Labbook finished: 10/28/2021 5:08:56 PM

Method Summary:

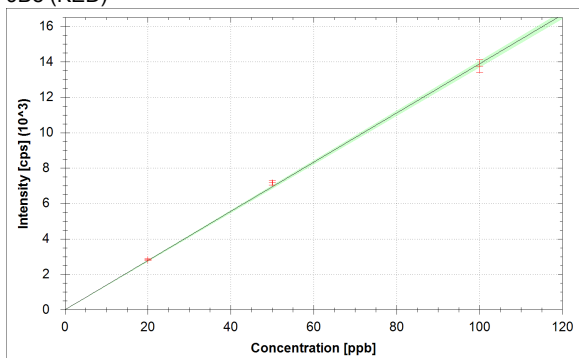
Isotope	Mode	Dwell time (s)	# of Channels	Spacing	Resolution	IS
6Li (KED)	KED	0.03	3	0.1	Normal	
9Be (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
11B (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
24Mg (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
27Al (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
45Sc (KED)	KED	0.03	3	0.1	Normal	
51V (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
52Cr (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
55Mn (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
56Fe (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
58Ni (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
59Co (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
63Cu (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
64Zn (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
69Ga (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
75As (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
80Se (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
85Rb (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
88Sr (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
89Y (KED)	KED	0.03	3	0.1	Normal	
107Ag (KED)	KED	0.03	3	0.1	Normal	115In (KED)
114Cd (KED)	KED	0.03	3	0.1	Normal	115In (KED)
115In (KED)	KED	0.03	3	0.1	Normal	
133Cs (KED)	KED	0.03	3	0.1	Normal	115In (KED)
138Ba (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
139La (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
140Ce (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
141Pr (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
142Nd (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
152Sm (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
153Eu (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
158Gd (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
159Tb (KED)	KED	0.03	3	0.1	Normal	
164Dy (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
166Er (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
169Tm (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
174Yb (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
175Lu (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
205Tl (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)
208Pb (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)
209Bi (KED)	KED	0.03	3	0.1	Normal	
232Th (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)
238U (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)

Isotope	Mode	Dwell time (s)	# of Channels	Spacing	Resolution
6Li (KED)	KED	0.03	3	0.1	Normal
45Sc (KED)	KED	0.03	3	0.1	Normal
89Y (KED)	KED	0.03	3	0.1	Normal
115In (KED)	KED	0.03	3	0.1	Normal
159Tb (KED)	KED	0.03	3	0.1	Normal
209Bi (KED)	KED	0.03	3	0.1	Normal

No. of sweeps	Time per sweep[s]	Time per main run[s]
10	3.87	38.7

Calibration Curves:

9Be (KED)



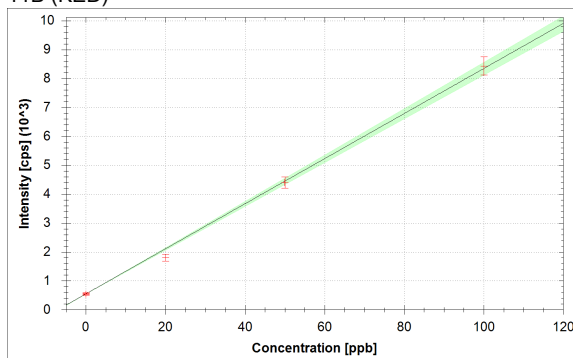
$$f(x) = 138.7658 \cdot x$$

$$R^2 = 0.9995$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0000 \text{ ppb}$$

11B (KED)



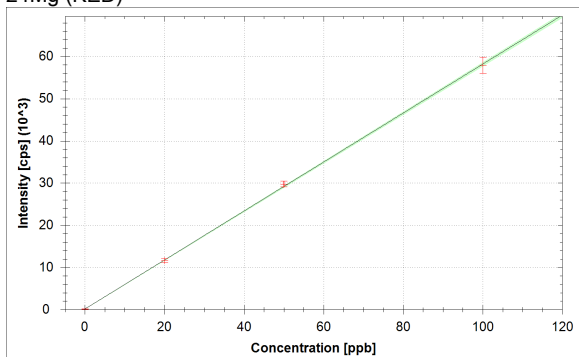
$$f(x) = 77.9635 \cdot x + 548.1623$$

$$R^2 = 0.9976$$

$$\text{BEC} = 7.031 \text{ ppb}$$

$$\text{LoD} = 2.1204 \text{ ppb}$$

24Mg (KED)



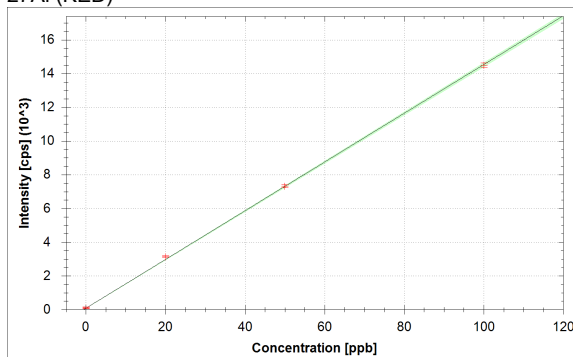
$$f(x) = 580.5157 \cdot x + 136.9403$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.236 \text{ ppb}$$

$$\text{LoD} = 0.0119 \text{ ppb}$$

27Al (KED)



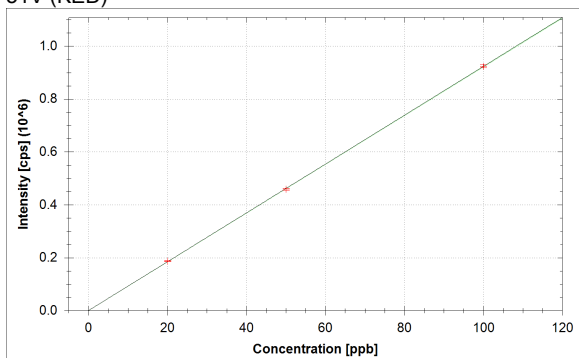
$$f(x) = 144.5551 \cdot x + 78.5127$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.543 \text{ ppb}$$

$$\text{LoD} = 0.8979 \text{ ppb}$$

51V (KED)



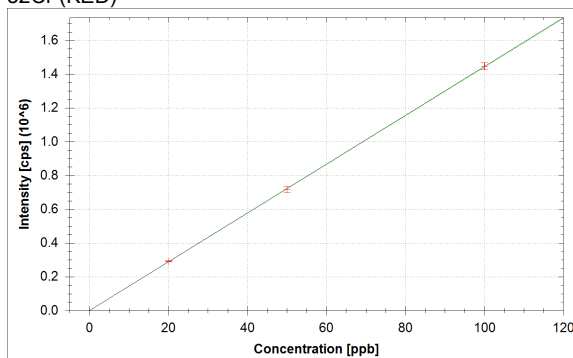
$$f(x) = 9230.0266 \cdot x + 2.2192$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0012 \text{ ppb}$$

52Cr (KED)



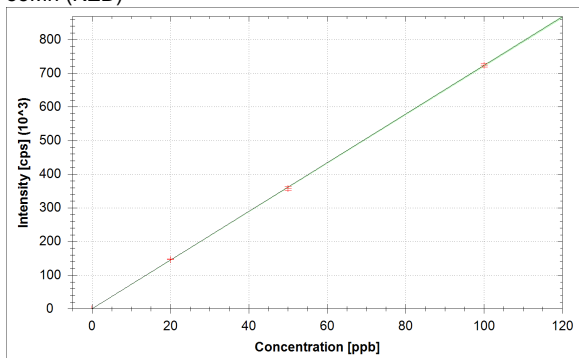
$$f(x) = 14439.9854 \cdot x + 45.4050$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.003 \text{ ppb}$$

$$\text{LoD} = 0.0035 \text{ ppb}$$

55Mn (KED)



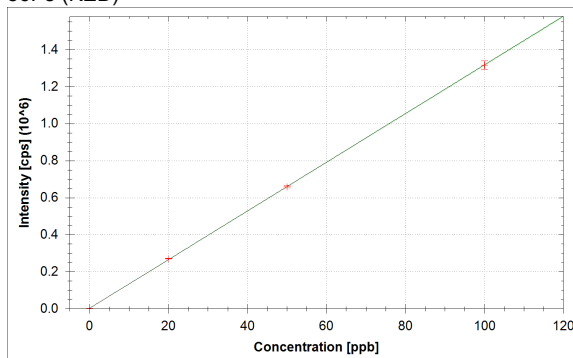
$$f(x) = 7227.8932 \cdot x + 46.4688$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.006 \text{ ppb}$$

$$\text{LoD} = 0.0044 \text{ ppb}$$

56Fe (KED)



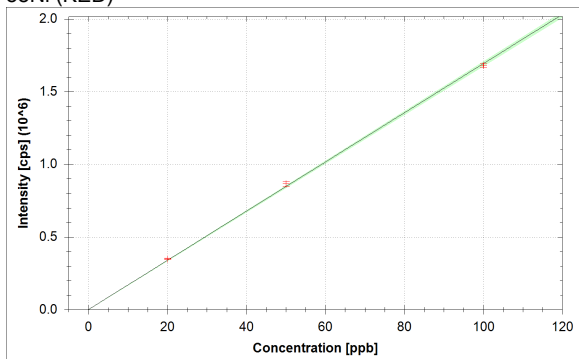
$$f(x) = 13149.8274 \cdot x + 2026.8617$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.154 \text{ ppb}$$

$$\text{LoD} = 0.0283 \text{ ppb}$$

58Ni (KED)



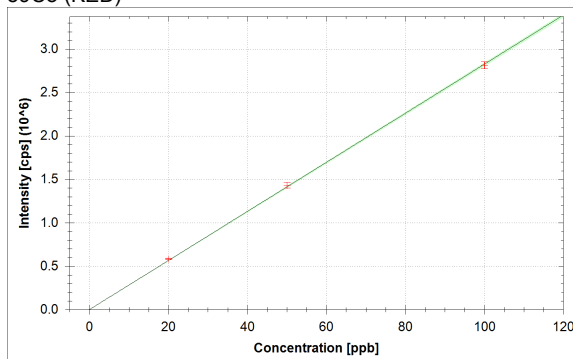
$$f(x) = 16918.8704 \cdot x + 276.5888$$

$$R^2 = 0.9997$$

$$\text{BEC} = 0.016 \text{ ppb}$$

$$\text{LoD} = 0.0085 \text{ ppb}$$

59Co (KED)



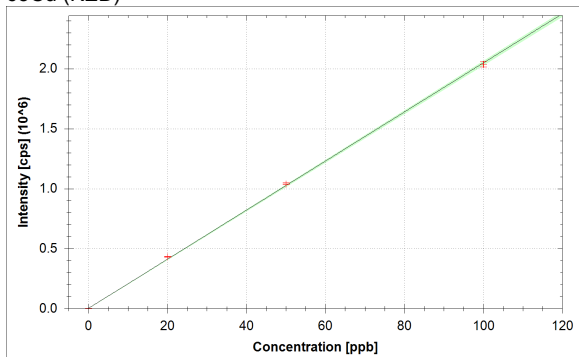
$$f(x) = 28263.3056 \cdot x + 16.5992$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0008 \text{ ppb}$$

63Cu (KED)



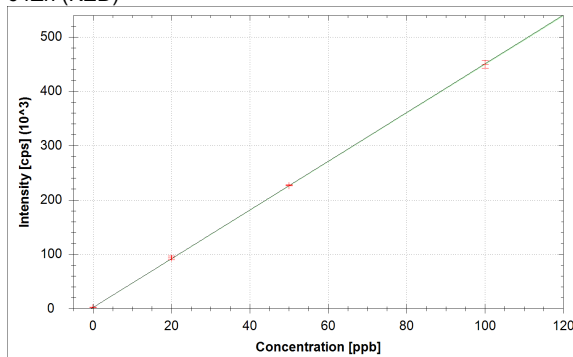
$$f(x) = 20461.2394 \cdot x + 2018.1887$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.099 \text{ ppb}$$

$$\text{LoD} = 0.0142 \text{ ppb}$$

64Zn (KED)



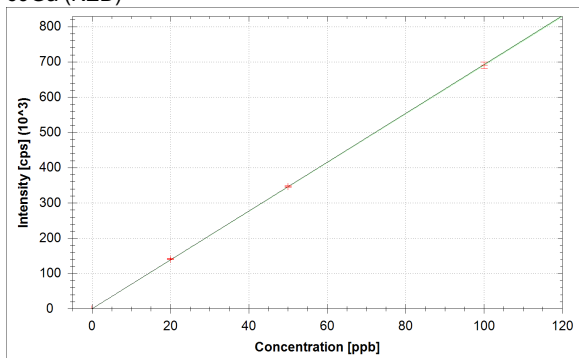
$$f(x) = 4481.9205 \cdot x + 2008.2846$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.448 \text{ ppb}$$

$$\text{LoD} = 0.1262 \text{ ppb}$$

69Ga (KED)



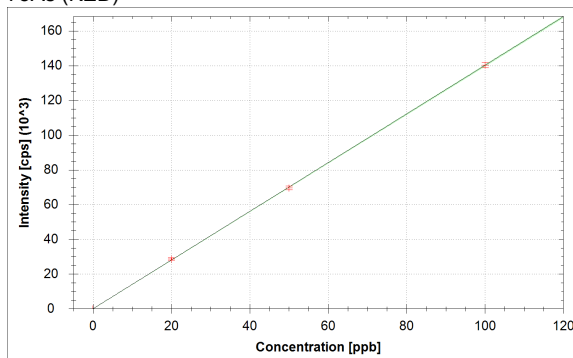
$$f(x) = 6918.8091 \cdot x + 35.3837$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.005 \text{ ppb}$$

$$\text{LoD} = 0.0039 \text{ ppb}$$

75As (KED)



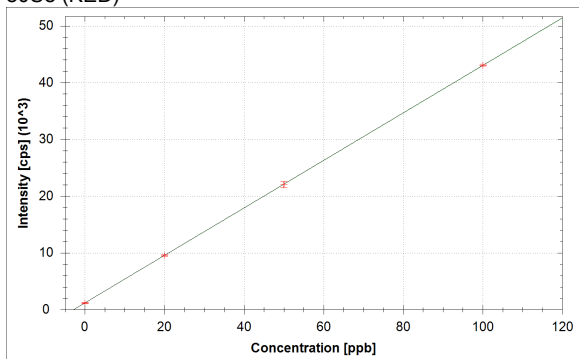
$$f(x) = 1401.8582 \cdot x + 11.0352$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.008 \text{ ppb}$$

$$\text{LoD} = 0.0174 \text{ ppb}$$

80Se (KED)



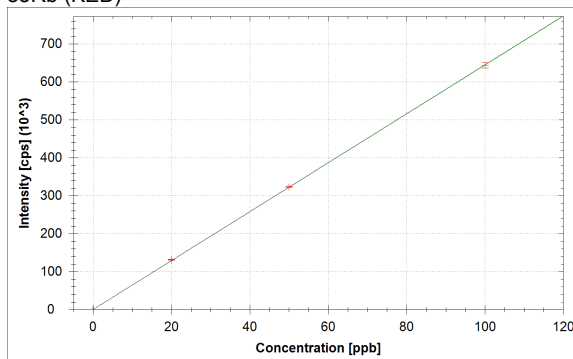
$$f(x) = 418.5489 \cdot x + 1173.5038$$

$$R^2 = 1.0000$$

$$\text{BEC} = 2.804 \text{ ppb}$$

$$\text{LoD} = 0.7521 \text{ ppb}$$

85Rb (KED)



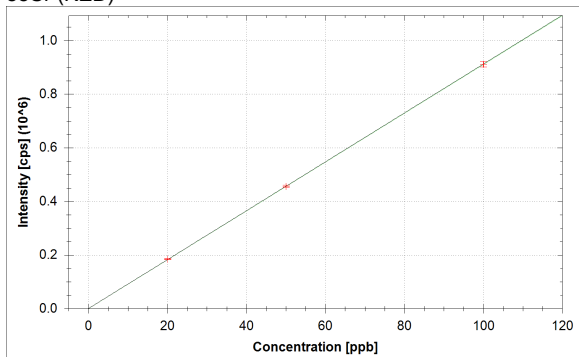
$$f(x) = 6449.6404 \cdot x + 13.2355$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.002 \text{ ppb}$$

$$\text{LoD} = 0.0040 \text{ ppb}$$

88Sr (KED)



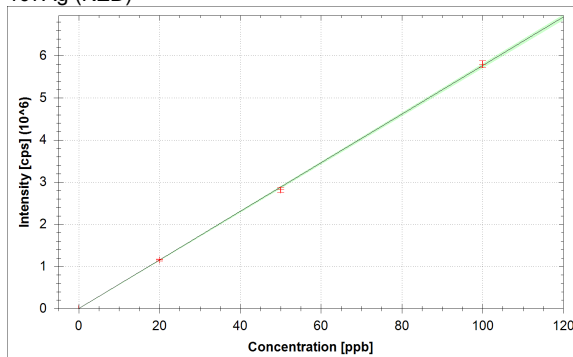
$$f(x) = 9118.8646 \cdot x + 82.8904$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.009 \text{ ppb}$$

$$\text{LoD} = 0.0073 \text{ ppb}$$

107Ag (KED)



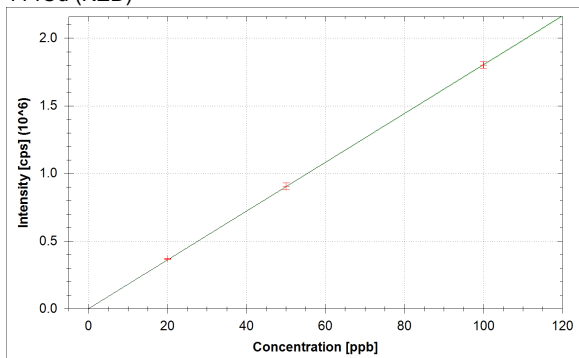
$$f(x) = 57643.4091 \cdot x + 27.2155$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0009 \text{ ppb}$$

114Cd (KED)



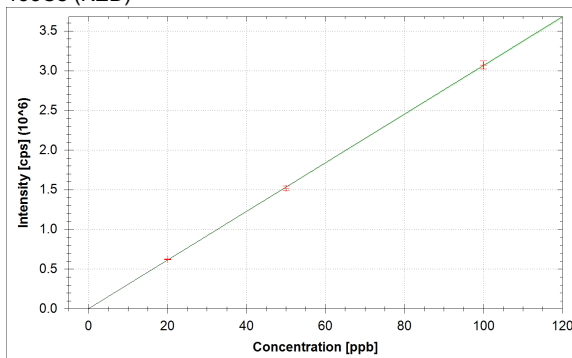
$$f(x) = 18032.3060 \cdot x + 17.4453$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0011 \text{ ppb}$$

133Cs (KED)



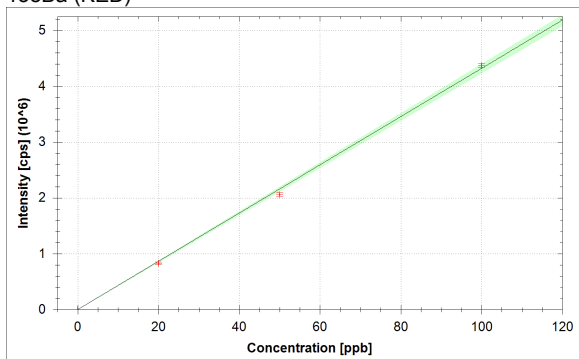
$$f(x) = 30639.2884 \cdot x + 16.3777$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0003 \text{ ppb}$$

138Ba (KED)



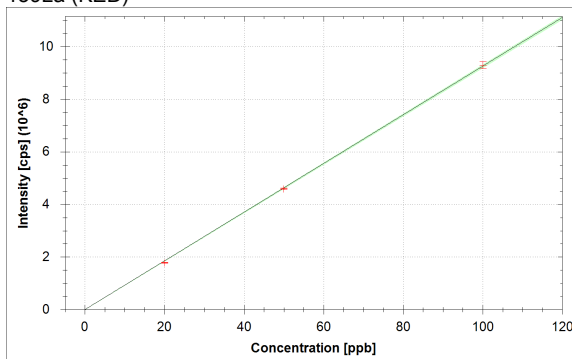
$$f(x) = 43189.5046 \cdot x + 643.0352$$

$$R^2 = 0.9990$$

$$\text{BEC} = 0.015 \text{ ppb}$$

$$\text{LoD} = 0.0034 \text{ ppb}$$

139La (KED)



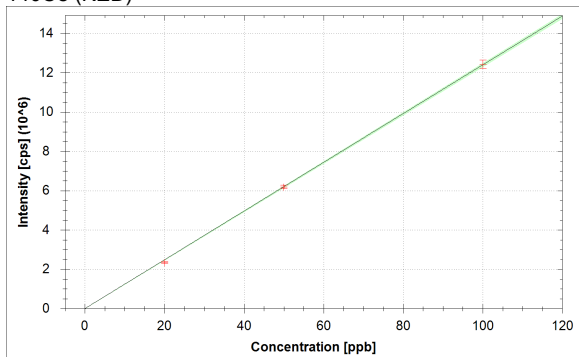
$$f(x) = 92594.2888 \cdot x + 11.1072$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0001 \text{ ppb}$$

140Ce (KED)



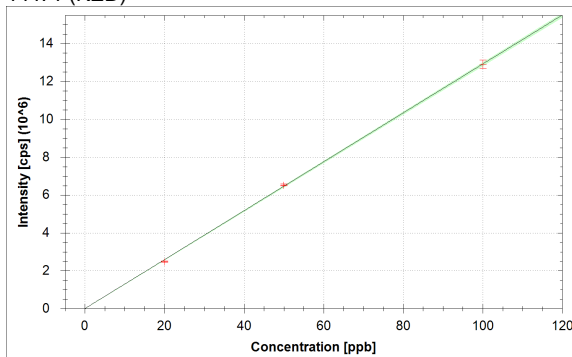
$$f(x) = 124018.0408 \cdot x + 96.3935$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0001 \text{ ppb}$$

141Pr (KED)



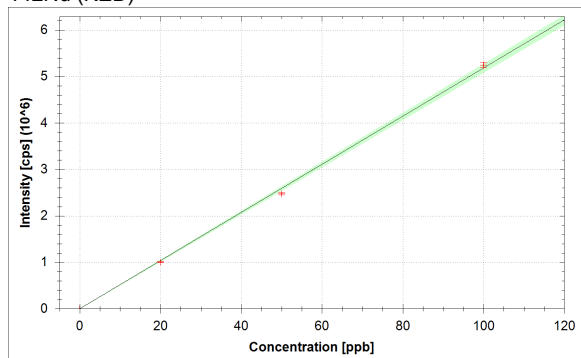
$$f(x) = 129214.1661 \cdot x + 6.6549$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0002 \text{ ppb}$$

142Nd (KED)



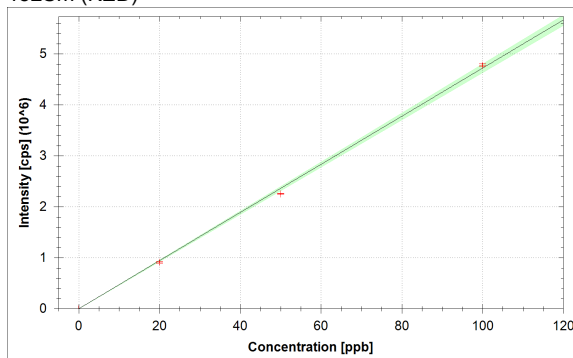
$$f(x) = 51812.3983 \cdot x + 19.5945$$

$$R^2 = 0.9991$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0002 \text{ ppb}$$

152Sm (KED)



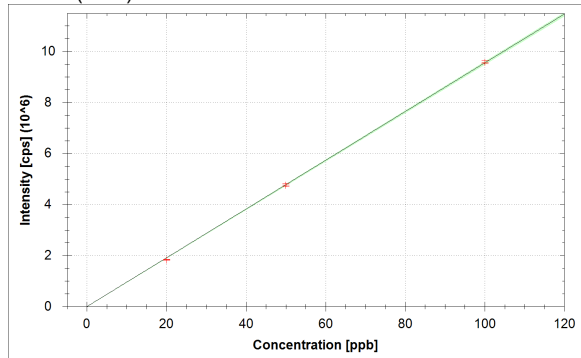
$$f(x) = 47185.1742 \cdot x + 3.2822$$

$$R^2 = 0.9990$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0002 \text{ ppb}$$

153Eu (KED)



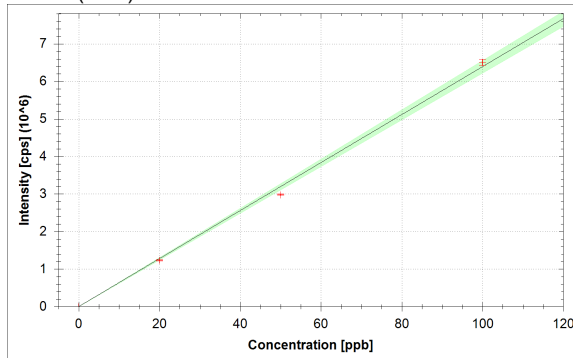
$$f(x) = 95497.5780 \cdot x + 6.8955$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0001 \text{ ppb}$$

158Gd (KED)



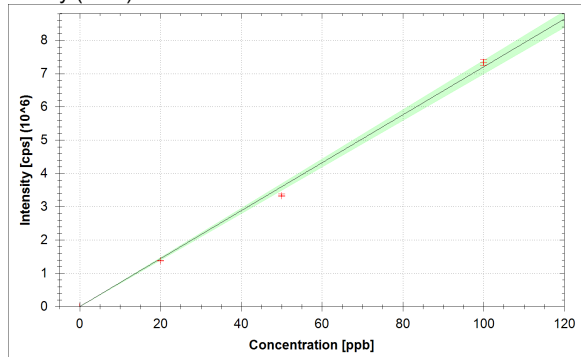
$$f(x) = 63927.6218 \cdot x + 5.5443$$

$$R^2 = 0.9979$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0002 \text{ ppb}$$

164Dy (KED)



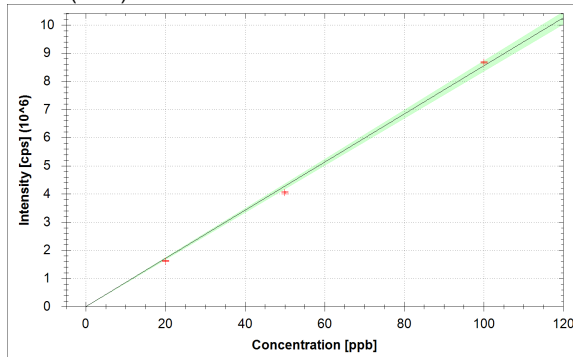
$$f(x) = 71973.6736 \cdot x + 9.0981$$

$$R^2 = 0.9976$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0003 \text{ ppb}$$

166Er (KED)



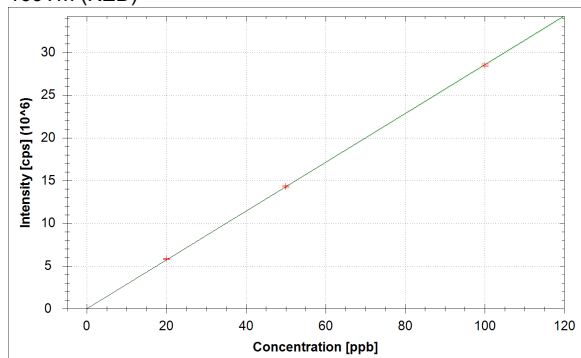
$$f(x) = 85463.8435 \cdot x + 447.8329$$

$$R^2 = 0.9986$$

$$\text{BEC} = 0.005 \text{ ppb}$$

$$\text{LoD} = 0.0029 \text{ ppb}$$

169Tm (KED)



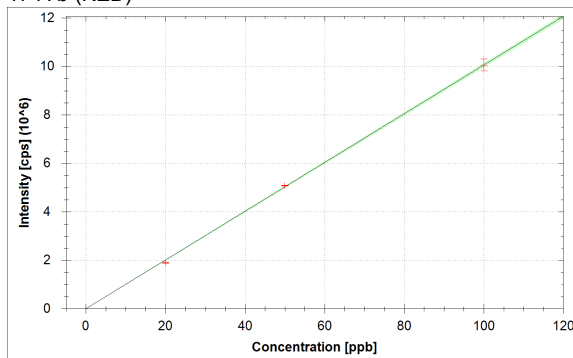
$$f(x) = 285456.7283 \cdot x + 9.0733$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0001 \text{ ppb}$$

174Yb (KED)



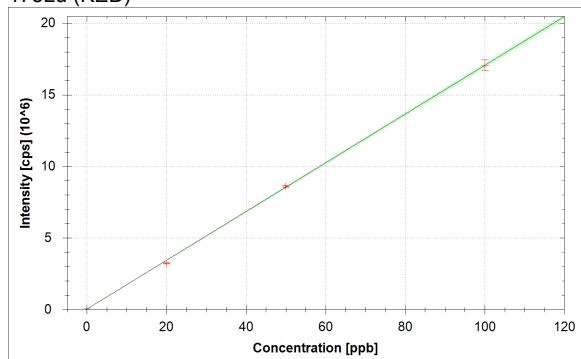
$$f(x) = 100575.7379 \cdot x + 15.9936$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0001 \text{ ppb}$$

175Lu (KED)



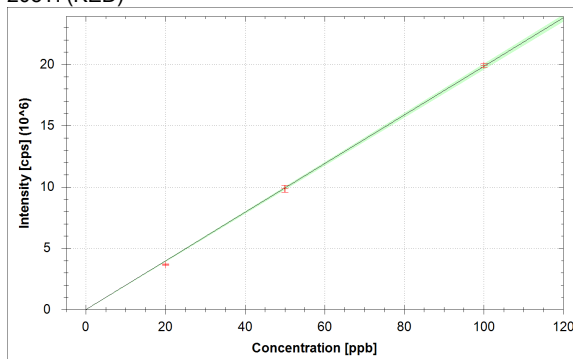
$$f(x) = 170209.9081 \cdot x + 35797.1245$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.210 \text{ ppb}$$

$$\text{LoD} = 0.0331 \text{ ppb}$$

205Tl (KED)



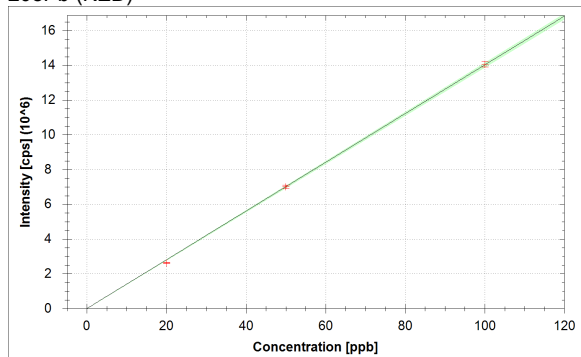
$$f(x) = 198320.7530 \cdot x + 47.2268$$

$$R^2 = 0.9996$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0001 \text{ ppb}$$

208Pb (KED)



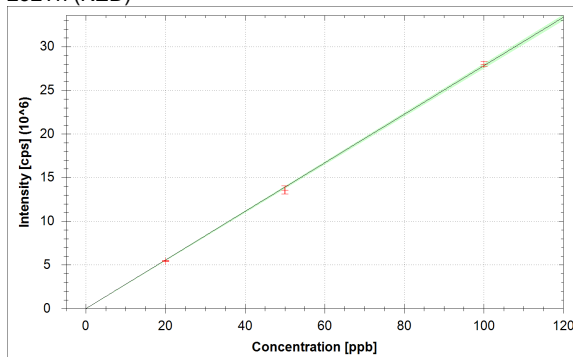
$$f(x) = 140161.4243 \cdot x + 4152.5927$$

$$R^2 = 0.9997$$

$$\text{BEC} = 0.030 \text{ ppb}$$

$$\text{LoD} = 0.0019 \text{ ppb}$$

232Th (KED)



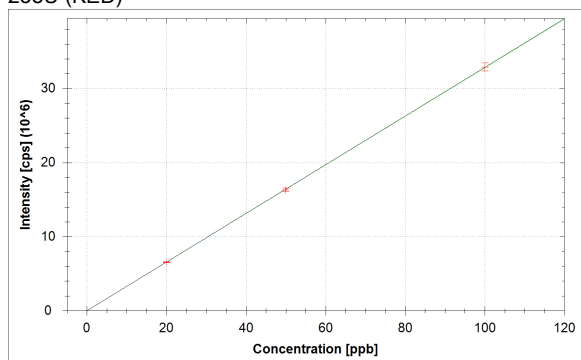
$$f(x) = 277953.2494 \cdot x + 88.8140$$

$$R^2 = 0.9997$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0001 \text{ ppb}$$

238U (KED)



$$f(x) = 328413.5519 \cdot x + 67.4827$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = 0.0007 \text{ ppb}$$

Standards:

Analysis Index: 3
 Analysis Name: 0+20
 Analysis Type: STD
 Analysis Started at: 10/28/2021 3:01:12 PM
 Standard (Stock): std0
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	103.230 %		
9Be (KED)	0.000 ppb		0.000 ppb
11B (KED)	0.000 ppb	0.0 %	0.000 ppb
24Mg (KED)	0.000 ppb	0.2 %	0.000 ppb
27Al (KED)	0.000 ppb	0.1 %	0.000 ppb
45Sc (KED)	100.445 %		
51V (KED)	0.000 ppb	1.7 %	0.000 ppb
52Cr (KED)	0.000 ppb	0.4 %	0.000 ppb
55Mn (KED)	0.000 ppb	0.1 %	0.000 ppb
56Fe (KED)	0.000 ppb	0.1 %	0.000 ppb
58Ni (KED)	0.000 ppb	0.1 %	0.000 ppb
59Co (KED)	0.000 ppb	0.5 %	0.000 ppb
63Cu (KED)	0.000 ppb	0.1 %	0.000 ppb
64Zn (KED)	0.000 ppb	0.1 %	0.000 ppb
69Ga (KED)	0.000 ppb	0.1 %	0.000 ppb
75As (KED)	0.000 ppb	0.3 %	0.000 ppb
80Se (KED)	0.000 ppb	0.0 %	0.000 ppb
85Rb (KED)	0.000 ppb	1.0 %	0.000 ppb
88Sr (KED)	0.000 ppb	0.1 %	0.000 ppb
89Y (KED)	100.551 %		
107Ag (KED)	0.000 ppb	0.2 %	0.000 ppb
114Cd (KED)	0.000 ppb	0.2 %	0.000 ppb
115In (KED)	102.065 %		
133Cs (KED)	0.000 ppb	0.7 %	0.000 ppb
138Ba (KED)	0.000 ppb	0.1 %	0.000 ppb
139La (KED)	0.000 ppb	0.4 %	0.000 ppb
140Ce (KED)	0.000 ppb	0.1 %	0.000 ppb
141Pr (KED)	0.000 ppb	0.5 %	0.000 ppb
142Nd (KED)	0.000 ppb	1.0 %	0.000 ppb
152Sm (KED)	0.000 ppb	1.0 %	0.000 ppb
153Eu (KED)	0.000 ppb	0.9 %	0.000 ppb
158Gd (KED)	0.000 ppb	1.2 %	0.000 ppb
159Tb (KED)	99.128 %		
164Dy (KED)	0.000 ppb	0.9 %	0.000 ppb
166Er (KED)	0.000 ppb	0.0 %	0.000 ppb
169Tm (KED)	0.000 ppb	0.9 %	0.000 ppb
174Yb (KED)	0.000 ppb	0.8 %	0.000 ppb
175Lu (KED)	0.000 ppb	0.0 %	0.000 ppb
205Tl (KED)	0.000 ppb	0.1 %	0.000 ppb
208Pb (KED)	0.000 ppb	0.1 %	0.000 ppb
209Bi (KED)	98.827 %		
232Th (KED)	0.000 ppb	0.2 %	0.000 ppb
238U (KED)	0.000 ppb	0.3 %	0.000 ppb

Standards:

Analysis Index: 4
 Analysis Name: 20+20
 Analysis Type: STD
 Analysis Started at: 10/28/2021 3:04:15 PM
 Standard (Stock): std3
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	103.121 %		
9Be (KED)	20.368 ppb	1.5 %	20.000 ppb
11B (KED)	15.974 ppb	9.4 %	20.000 ppb
24Mg (KED)	19.752 ppb	4.1 %	20.000 ppb
27Al (KED)	21.227 ppb	1.7 %	20.000 ppb
45Sc (KED)	104.753 %		
51V (KED)	20.192 ppb	0.8 %	20.000 ppb
52Cr (KED)	20.181 ppb	1.1 %	20.000 ppb
55Mn (KED)	20.292 ppb	0.5 %	20.000 ppb
56Fe (KED)	20.400 ppb	0.7 %	20.000 ppb
58Ni (KED)	20.622 ppb	1.2 %	20.000 ppb
59Co (KED)	20.648 ppb	1.3 %	20.000 ppb
63Cu (KED)	20.929 ppb	1.4 %	20.000 ppb
64Zn (KED)	20.337 ppb	3.6 %	20.000 ppb
69Ga (KED)	20.375 ppb	1.2 %	20.000 ppb
75As (KED)	20.395 ppb	2.1 %	20.000 ppb
80Se (KED)	20.001 ppb	2.0 %	20.000 ppb
85Rb (KED)	20.336 ppb	1.3 %	20.000 ppb
88Sr (KED)	20.269 ppb	0.8 %	20.000 ppb
89Y (KED)	105.094 %		
107Ag (KED)	20.018 ppb	2.0 %	20.000 ppb
114Cd (KED)	20.333 ppb	0.8 %	20.000 ppb
115In (KED)	105.030 %		
133Cs (KED)	20.253 ppb	0.9 %	20.000 ppb
138Ba (KED)	19.199 ppb	3.0 %	20.000 ppb
139La (KED)	19.160 ppb	0.8 %	20.000 ppb
140Ce (KED)	18.905 ppb	2.1 %	20.000 ppb
141Pr (KED)	19.119 ppb	1.8 %	20.000 ppb
142Nd (KED)	19.438 ppb	1.5 %	20.000 ppb
152Sm (KED)	19.316 ppb	1.9 %	20.000 ppb
153Eu (KED)	19.135 ppb	1.1 %	20.000 ppb
158Gd (KED)	19.295 ppb	1.7 %	20.000 ppb
159Tb (KED)	105.842 %		
164Dy (KED)	19.116 ppb	0.4 %	20.000 ppb
166Er (KED)	18.972 ppb	0.8 %	20.000 ppb
169Tm (KED)	20.440 ppb	0.9 %	20.000 ppb
174Yb (KED)	18.865 ppb	1.4 %	20.000 ppb
175Lu (KED)	18.733 ppb	1.6 %	20.000 ppb
205Tl (KED)	18.444 ppb	1.8 %	20.000 ppb
208Pb (KED)	18.622 ppb	1.4 %	20.000 ppb
209Bi (KED)	103.877 %		
232Th (KED)	19.608 ppb	1.0 %	20.000 ppb
238U (KED)	20.014 ppb	0.9 %	20.000 ppb

Standards:

Analysis Index: 5
 Analysis Name: 50+20
 Analysis Type: STD
 Analysis Started at: 10/28/2021 3:07:37 PM
 Standard (Stock): std1
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	98.439 %		
9Be (KED)	51.613 ppb	1.9 %	50.000 ppb
11B (KED)	49.447 ppb	5.0 %	50.000 ppb
24Mg (KED)	51.022 ppb	2.2 %	50.000 ppb
27Al (KED)	50.068 ppb	1.3 %	50.000 ppb
45Sc (KED)	104.142 %		
51V (KED)	49.738 ppb	0.8 %	50.000 ppb
52Cr (KED)	49.584 ppb	2.3 %	50.000 ppb
55Mn (KED)	49.525 ppb	1.6 %	50.000 ppb
56Fe (KED)	49.964 ppb	1.2 %	50.000 ppb
58Ni (KED)	51.057 ppb	2.1 %	50.000 ppb
59Co (KED)	50.610 ppb	2.1 %	50.000 ppb
63Cu (KED)	50.708 ppb	0.8 %	50.000 ppb
64Zn (KED)	50.140 ppb	0.5 %	50.000 ppb
69Ga (KED)	50.174 ppb	0.8 %	50.000 ppb
75As (KED)	49.650 ppb	1.6 %	50.000 ppb
80Se (KED)	49.874 ppb	2.4 %	50.000 ppb
85Rb (KED)	50.178 ppb	0.6 %	50.000 ppb
88Sr (KED)	50.002 ppb	0.8 %	50.000 ppb
89Y (KED)	104.447 %		
107Ag (KED)	48.857 ppb	2.1 %	50.000 ppb
114Cd (KED)	50.151 ppb	2.8 %	50.000 ppb
115In (KED)	104.497 %		
133Cs (KED)	49.509 ppb	1.8 %	50.000 ppb
138Ba (KED)	47.712 ppb	1.4 %	50.000 ppb
139La (KED)	49.614 ppb	0.6 %	50.000 ppb
140Ce (KED)	49.924 ppb	1.3 %	50.000 ppb
141Pr (KED)	50.546 ppb	0.9 %	50.000 ppb
142Nd (KED)	47.764 ppb	1.1 %	50.000 ppb
152Sm (KED)	47.723 ppb	0.6 %	50.000 ppb
153Eu (KED)	49.843 ppb	1.2 %	50.000 ppb
158Gd (KED)	46.622 ppb	0.5 %	50.000 ppb
159Tb (KED)	106.134 %		
164Dy (KED)	46.399 ppb	1.2 %	50.000 ppb
166Er (KED)	47.365 ppb	1.2 %	50.000 ppb
169Tm (KED)	50.107 ppb	1.1 %	50.000 ppb
174Yb (KED)	50.499 ppb	0.3 %	50.000 ppb
175Lu (KED)	50.421 ppb	0.8 %	50.000 ppb
205Tl (KED)	49.637 ppb	2.9 %	50.000 ppb
208Pb (KED)	49.992 ppb	1.5 %	50.000 ppb
209Bi (KED)	102.540 %		
232Th (KED)	48.851 ppb	3.4 %	50.000 ppb
238U (KED)	49.694 ppb	1.3 %	50.000 ppb

Standards:

Analysis Index: 6
 Analysis Name: 100+20
 Analysis Type: STD
 Analysis Started at: 10/28/2021 3:10:49 PM
 Standard (Stock): std2
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	101.887 %		
9Be (KED)	99.120 ppb	2.7 %	100.000 ppb
11B (KED)	101.082 ppb	4.0 %	100.000 ppb
24Mg (KED)	99.539 ppb	3.3 %	100.000 ppb
27Al (KED)	99.721 ppb	1.0 %	100.000 ppb
45Sc (KED)	106.880 %		
51V (KED)	100.093 ppb	0.7 %	100.000 ppb
52Cr (KED)	100.172 ppb	1.5 %	100.000 ppb
55Mn (KED)	100.179 ppb	0.8 %	100.000 ppb
56Fe (KED)	99.938 ppb	1.8 %	100.000 ppb
58Ni (KED)	99.347 ppb	0.8 %	100.000 ppb
59Co (KED)	99.566 ppb	1.5 %	100.000 ppb
63Cu (KED)	99.460 ppb	1.2 %	100.000 ppb
64Zn (KED)	99.863 ppb	1.6 %	100.000 ppb
69Ga (KED)	99.838 ppb	1.2 %	100.000 ppb
75As (KED)	100.096 ppb	1.1 %	100.000 ppb
80Se (KED)	100.063 ppb	0.4 %	100.000 ppb
85Rb (KED)	99.844 ppb	1.1 %	100.000 ppb
88Sr (KED)	99.945 ppb	1.1 %	100.000 ppb
89Y (KED)	107.315 %		
107Ag (KED)	100.568 ppb	1.5 %	100.000 ppb
114Cd (KED)	99.858 ppb	1.3 %	100.000 ppb
115In (KED)	106.097 %		
133Cs (KED)	100.195 ppb	1.7 %	100.000 ppb
138Ba (KED)	101.304 ppb	0.8 %	100.000 ppb
139La (KED)	100.361 ppb	1.4 %	100.000 ppb
140Ce (KED)	100.257 ppb	1.8 %	100.000 ppb
141Pr (KED)	99.903 ppb	1.8 %	100.000 ppb
142Nd (KED)	101.230 ppb	1.0 %	100.000 ppb
152Sm (KED)	101.275 ppb	0.6 %	100.000 ppb
153Eu (KED)	100.252 ppb	0.7 %	100.000 ppb
158Gd (KED)	101.830 ppb	1.3 %	100.000 ppb
159Tb (KED)	107.710 %		
164Dy (KED)	101.977 ppb	1.3 %	100.000 ppb
166Er (KED)	101.523 ppb	0.3 %	100.000 ppb
169Tm (KED)	99.859 ppb	0.4 %	100.000 ppb
174Yb (KED)	99.977 ppb	2.4 %	100.000 ppb
175Lu (KED)	100.043 ppb	2.1 %	100.000 ppb
205Tl (KED)	100.493 ppb	0.8 %	100.000 ppb
208Pb (KED)	100.280 ppb	1.2 %	100.000 ppb
209Bi (KED)	103.310 %		
232Th (KED)	100.653 ppb	1.0 %	100.000 ppb
238U (KED)	100.150 ppb	1.7 %	100.000 ppb

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Main Runs:	Survey Runs:	Start Time:	User name:
1	water	3	0	10/28/2021 2:55:02 PM	WINDOWS-UPCI4ER\Administrator
2	blk	3	0	10/28/2021 2:58:01 PM	WINDOWS-UPCI4ER\Administrator
3	0+20	3	0	10/28/2021 3:01:12 PM	WINDOWS-UPCI4ER\Administrator
4	20+20	3	0	10/28/2021 3:04:15 PM	WINDOWS-UPCI4ER\Administrator
5	50+20	3	0	10/28/2021 3:07:37 PM	WINDOWS-UPCI4ER\Administrator
6	100+20	3	0	10/28/2021 3:10:49 PM	WINDOWS-UPCI4ER\Administrator
7	03039jian	3	0	10/28/2021 3:14:01 PM	WINDOWS-UPCI4ER\Administrator
8	03036jian	3	0	10/28/2021 3:17:14 PM	WINDOWS-UPCI4ER\Administrator
9	03023ti	3	0	10/28/2021 3:20:14 PM	WINDOWS-UPCI4ER\Administrator
10	03001ti	3	0	10/28/2021 3:23:25 PM	WINDOWS-UPCI4ER\Administrator
11	03042ti	3	0	10/28/2021 3:26:35 PM	WINDOWS-UPCI4ER\Administrator
12	80060jian	3	0	10/28/2021 3:29:45 PM	WINDOWS-UPCI4ER\Administrator
13	80176jian	3	0	10/28/2021 3:32:56 PM	WINDOWS-UPCI4ER\Administrator
14	80066ti	3	0	10/28/2021 3:36:11 PM	WINDOWS-UPCI4ER\Administrator
15	80160ti	3	0	10/28/2021 3:39:22 PM	WINDOWS-UPCI4ER\Administrator
16	80030jian	3	0	10/28/2021 3:42:34 PM	WINDOWS-UPCI4ER\Administrator
17	80031jian	3	0	10/28/2021 3:45:43 PM	WINDOWS-UPCI4ER\Administrator
18	80098ti	3	0	10/28/2021 3:48:52 PM	WINDOWS-UPCI4ER\Administrator
19	80131jian	3	0	10/28/2021 3:52:17 PM	WINDOWS-UPCI4ER\Administrator
20	80223jian	3	0	10/28/2021 3:55:33 PM	WINDOWS-UPCI4ER\Administrator
21	80186jian	3	0	10/28/2021 3:58:40 PM	WINDOWS-UPCI4ER\Administrator
22	80061jian	3	0	10/28/2021 4:01:47 PM	WINDOWS-UPCI4ER\Administrator
23	80143jian	3	0	10/28/2021 4:04:58 PM	WINDOWS-UPCI4ER\Administrator
24	802133jian	3	0	10/28/2021 4:08:11 PM	WINDOWS-UPCI4ER\Administrator
25	80036jian	3	0	10/28/2021 4:11:22 PM	WINDOWS-UPCI4ER\Administrator
26	802158jian	3	0	10/28/2021 4:14:33 PM	WINDOWS-UPCI4ER\Administrator
27	80075jian	3	0	10/28/2021 4:17:47 PM	WINDOWS-UPCI4ER\Administrator
28	803244jian	3	0	10/28/2021 4:20:58 PM	WINDOWS-UPCI4ER\Administrator
29	805028jian	3	0	10/28/2021 4:24:13 PM	WINDOWS-UPCI4ER\Administrator
30	80040jian	3	0	10/28/2021 4:27:27 PM	WINDOWS-UPCI4ER\Administrator
31	803041jian	1	0	10/28/2021 4:30:37 PM	WINDOWS-UPCI4ER\Administrator
32	80057jian	1	0	10/28/2021 4:32:44 PM	WINDOWS-UPCI4ER\Administrator
33	80119jian	1	0	10/28/2021 4:34:42 PM	WINDOWS-UPCI4ER\Administrator
34	802024jian	1	0	10/28/2021 4:36:37 PM	WINDOWS-UPCI4ER\Administrator
35	801017jian	1	0	10/28/2021 4:38:31 PM	WINDOWS-UPCI4ER\Administrator
36	80100jian	1	0	10/28/2021 4:40:24 PM	WINDOWS-UPCI4ER\Administrator
37	80154jian	1	0	10/28/2021 4:42:18 PM	WINDOWS-UPCI4ER\Administrator
38	80142jian	1	0	10/28/2021 4:44:09 PM	WINDOWS-UPCI4ER\Administrator
39	701032jian	1	0	10/28/2021 4:46:01 PM	WINDOWS-UPCI4ER\Administrator
40	80037jian	1	0	10/28/2021 4:47:54 PM	WINDOWS-UPCI4ER\Administrator
41	801081jian	1	0	10/28/2021 4:49:55 PM	WINDOWS-UPCI4ER\Administrator
42	80161jian	1	0	10/28/2021 4:51:46 PM	WINDOWS-UPCI4ER\Administrator
43	605134jian	1	0	10/28/2021 4:53:35 PM	WINDOWS-UPCI4ER\Administrator
44	605271jian	1	0	10/28/2021 4:55:29 PM	WINDOWS-UPCI4ER\Administrator
45	80144jian	1	0	10/28/2021 4:57:23 PM	WINDOWS-UPCI4ER\Administrator
46	80076jian	1	0	10/28/2021 4:59:15 PM	WINDOWS-UPCI4ER\Administrator
47	701321jian	1	0	10/28/2021 5:01:08 PM	WINDOWS-UPCI4ER\Administrator
48	805045jian	1	0	10/28/2021 5:02:56 PM	WINDOWS-UPCI4ER\Administrator
49	802008jian	1	0	10/28/2021 5:04:48 PM	WINDOWS-UPCI4ER\Administrator
50	80214jian	1	0	10/28/2021 5:06:43 PM	WINDOWS-UPCI4ER\Administrator

Sample Summary

Instrument ID: iCAP Q

Analysis index: 1

Analysis name: water

Analysis started at: 10/28/2021 2:55:02 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	0.000 %	
11B (KED)	Infinity ppb	
27Al (KED)	15.475 ppb	179.3 %
45Sc (KED)	0.079 %	18.7 %
51V (KED)	0.296 ppb	89.7 %
52Cr (KED)	1.433 ppb	48.2 %
55Mn (KED)	1.071 ppb	68.3 %
56Fe (KED)	26.955 ppb	27.4 %
58Ni (KED)	11.486 ppb	21.6 %
59Co (KED)	-0.001 ppb	0.0 %
63Cu (KED)	Infinity ppb	
64Zn (KED)	Infinity ppb	
80Se (KED)	Infinity ppb	
89Y (KED)	0.000 %	
107Ag (KED)	Infinity ppb	
115In (KED)	0.000 %	173.2 %
138Ba (KED)	Infinity ppb	
159Tb (KED)	0.000 %	
205Tl (KED)	201.445 ppb	32.6 %
208Pb (KED)	24.958 ppb	36.8 %
209Bi (KED)	0.000 %	12.4 %
232Th (KED)	1.068 ppb	173.3 %
238U (KED)	0.000 ppb	0.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	0.000 %	0 cps	
9Be (KED)		0 cps	
11B (KED)	Infinity ppb	19 cps	62.0 %
24Mg (KED)		3 cps	173.2 %
27Al (KED)	15.475 ppb	2 cps	173.2 %
45Sc (KED)	0.079 %	41 cps	18.7 %
51V (KED)	0.296 ppb	2 cps	86.6 %
52Cr (KED)	1.433 ppb	17 cps	52.9 %
55Mn (KED)	1.071 ppb	7 cps	86.6 %
56Fe (KED)	26.955 ppb	272 cps	13.0 %
58Ni (KED)	11.486 ppb	150 cps	10.2 %
59Co (KED)	-0.001 ppb	0 cps	
63Cu (KED)	Infinity ppb	23 cps	24.7 %
64Zn (KED)	Infinity ppb	289 cps	17.3 %
69Ga (KED)		2 cps	86.6 %
75As (KED)		3 cps	100.0 %
80Se (KED)	Infinity ppb	1,141 cps	6.7 %
85Rb (KED)		2 cps	86.6 %
88Sr (KED)		1 cps	173.2 %
89Y (KED)	0.000 %	0 cps	
107Ag (KED)	Infinity ppb	9 cps	43.3 %
114Cd (KED)		1 cps	173.2 %
115In (KED)	0.000 %	1 cps	173.2 %
133Cs (KED)		3 cps	100.0 %
138Ba (KED)	Infinity ppb	11 cps	96.4 %

Category	Concentration average	Intensity average	Intensity RSD
139La (KED)		0 cps	
140Ce (KED)		0 cps	
141Pr (KED)		0 cps	
142Nd (KED)		0 cps	
152Sm (KED)		1 cps	173.2 %
153Eu (KED)		0 cps	
158Gd (KED)		0 cps	
159Tb (KED)	0.000 %	0 cps	
164Dy (KED)		0 cps	
166Er (KED)		0 cps	
169Tm (KED)		0 cps	
174Yb (KED)		0 cps	
175Lu (KED)		0 cps	
205Tl (KED)	201.445 ppb	172 cps	31.0 %
208Pb (KED)	24.958 ppb	16 cps	44.6 %
209Bi (KED)	0.000 %	16 cps	12.4 %
232Th (KED)	1.068 ppb	1 cps	173.2 %
238U (KED)	0.000 ppb	0 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 2

Analysis name: blk

Analysis started at: 10/28/2021 2:58:01 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	100.000 %	
9Be (KED)	0.000 ppb	
11B (KED)	-0.089 ppb	792.1 %
24Mg (KED)	-0.077 ppb	5.1 %
27Al (KED)	0.208 ppb	143.6 %
45Sc (KED)	100.000 %	
51V (KED)	0.000 ppb	20,600.6 %
52Cr (KED)	0.000 ppb	393.2 %
55Mn (KED)	0.001 ppb	181.8 %
56Fe (KED)	0.012 ppb	80.7 %
58Ni (KED)	0.004 ppb	74.6 %
59Co (KED)	0.000 ppb	649.6 %
63Cu (KED)	0.007 ppb	67.1 %
64Zn (KED)	0.059 ppb	71.0 %
69Ga (KED)	0.000 ppb	3,164.9 %
75As (KED)	0.003 ppb	184.5 %
80Se (KED)	-0.150 ppb	167.3 %
85Rb (KED)	0.001 ppb	253.7 %
88Sr (KED)	0.002 ppb	102.7 %
89Y (KED)	100.000 %	
107Ag (KED)	0.000 ppb	649.2 %
114Cd (KED)	0.000 ppb	259.6 %
115In (KED)	100.000 %	
133Cs (KED)	0.000 ppb	33.9 %
138Ba (KED)	0.000 ppb	284.4 %
139La (KED)	0.000 ppb	23.2 %
140Ce (KED)	0.000 ppb	14.3 %
141Pr (KED)	0.000 ppb	207,325.0 %
142Nd (KED)	0.000 ppb	33.5 %
152Sm (KED)	0.000 ppb	3,501.4 %
153Eu (KED)	0.000 ppb	92.9 %
158Gd (KED)	0.000 ppb	144.5 %
159Tb (KED)	100.000 %	
164Dy (KED)	0.000 ppb	51.9 %
166Er (KED)	0.001 ppb	127.8 %
169Tm (KED)	0.000 ppb	98.9 %
174Yb (KED)	0.000 ppb	127.6 %
175Lu (KED)	0.030 ppb	36.6 %
205Tl (KED)	0.000 ppb	1,249.6 %
208Pb (KED)	0.001 ppb	99.6 %
209Bi (KED)	100.000 %	
232Th (KED)	0.000 ppb	86.5 %
238U (KED)	0.000 ppb	124.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	100.000 %	3,063 cps	3.6 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-0.089 ppb	541 cps	10.6 %
24Mg (KED)	-0.077 ppb	92 cps	4.2 %
27Al (KED)	0.208 ppb	109 cps	40.8 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.000 %	52,097 cps	0.9 %
51V (KED)	0.000 ppb	2 cps	173.2 %
52Cr (KED)	0.000 ppb	41 cps	40.0 %
55Mn (KED)	0.001 ppb	52 cps	19.5 %
56Fe (KED)	0.012 ppb	2,180 cps	5.1 %
58Ni (KED)	0.004 ppb	341 cps	15.0 %
59Co (KED)	0.000 ppb	18 cps	43.3 %
63Cu (KED)	0.007 ppb	2,161 cps	3.3 %
64Zn (KED)	0.059 ppb	2,271 cps	6.3 %
69Ga (KED)	0.000 ppb	36 cps	23.6 %
75As (KED)	0.003 ppb	16 cps	53.9 %
80Se (KED)	-0.150 ppb	1,112 cps	11.5 %
85Rb (KED)	0.001 ppb	17 cps	52.9 %
88Sr (KED)	0.002 ppb	104 cps	20.5 %
89Y (KED)	100.000 %	481,042 cps	2.2 %
107Ag (KED)	0.000 ppb	24 cps	70.0 %
114Cd (KED)	0.000 ppb	20 cps	33.3 %
115In (KED)	100.000 %	852,011 cps	0.9 %
133Cs (KED)	0.000 ppb	7 cps	50.0 %
138Ba (KED)	0.000 ppb	661 cps	9.9 %
139La (KED)	0.000 ppb	31 cps	16.4 %
140Ce (KED)	0.000 ppb	129 cps	5.4 %
141Pr (KED)	0.000 ppb	7 cps	100.0 %
142Nd (KED)	0.000 ppb	30 cps	11.1 %
152Sm (KED)	0.000 ppb	3 cps	100.0 %
153Eu (KED)	0.000 ppb	3 cps	100.0 %
158Gd (KED)	0.000 ppb	3 cps	100.0 %
159Tb (KED)	100.000 %	4,738,659 cps	2.6 %
164Dy (KED)	0.000 ppb	22 cps	31.2 %
166Er (KED)	0.001 ppb	511 cps	14.3 %
169Tm (KED)	0.000 ppb	3 cps	173.2 %
174Yb (KED)	0.000 ppb	19 cps	20.4 %
175Lu (KED)	0.030 ppb	40,927 cps	4.7 %
205Tl (KED)	0.000 ppb	48 cps	14.5 %
208Pb (KED)	0.001 ppb	4,244 cps	3.0 %
209Bi (KED)	100.000 %	3,561,715 cps	1.4 %
232Th (KED)	0.000 ppb	102 cps	10.5 %
238U (KED)	0.000 ppb	127 cps	57.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 3

Analysis name: 0+20

Analysis started at: 10/28/2021 3:01:12 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	103.230 %	
9Be (KED)	0.000 ppb	
11B (KED)	0.000 ppb	0.0 %
24Mg (KED)	0.000 ppb	0.2 %
27Al (KED)	0.000 ppb	0.1 %
45Sc (KED)	100.445 %	
51V (KED)	0.000 ppb	1.7 %
52Cr (KED)	0.000 ppb	0.4 %
55Mn (KED)	0.000 ppb	0.1 %
56Fe (KED)	0.000 ppb	0.1 %
58Ni (KED)	0.000 ppb	0.1 %
59Co (KED)	0.000 ppb	0.5 %
63Cu (KED)	0.000 ppb	0.1 %
64Zn (KED)	0.000 ppb	0.1 %
69Ga (KED)	0.000 ppb	0.1 %
75As (KED)	0.000 ppb	0.3 %
80Se (KED)	0.000 ppb	0.0 %
85Rb (KED)	0.000 ppb	1.0 %
88Sr (KED)	0.000 ppb	0.1 %
89Y (KED)	100.551 %	
107Ag (KED)	0.000 ppb	0.2 %
114Cd (KED)	0.000 ppb	0.2 %
115In (KED)	102.065 %	
133Cs (KED)	0.000 ppb	0.7 %
138Ba (KED)	0.000 ppb	0.1 %
139La (KED)	0.000 ppb	0.4 %
140Ce (KED)	0.000 ppb	0.1 %
141Pr (KED)	0.000 ppb	0.5 %
142Nd (KED)	0.000 ppb	1.0 %
152Sm (KED)	0.000 ppb	1.0 %
153Eu (KED)	0.000 ppb	0.9 %
158Gd (KED)	0.000 ppb	1.2 %
159Tb (KED)	99.128 %	
164Dy (KED)	0.000 ppb	0.9 %
166Er (KED)	0.000 ppb	0.0 %
169Tm (KED)	0.000 ppb	0.9 %
174Yb (KED)	0.000 ppb	0.8 %
175Lu (KED)	0.000 ppb	0.0 %
205Tl (KED)	0.000 ppb	0.1 %
208Pb (KED)	0.000 ppb	0.1 %
209Bi (KED)	98.827 %	
232Th (KED)	0.000 ppb	0.2 %
238U (KED)	0.000 ppb	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	103.230 %	3,162 cps	2.8 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	0.000 ppb	566 cps	2.2 %
24Mg (KED)	0.000 ppb	141 cps	14.4 %
27Al (KED)	0.000 ppb	79 cps	12.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.445 %	52,329 cps	0.5 %
51V (KED)	0.000 ppb	2 cps	173.2 %
52Cr (KED)	0.000 ppb	46 cps	37.5 %
55Mn (KED)	0.000 ppb	47 cps	7.1 %
56Fe (KED)	0.000 ppb	2,036 cps	5.6 %
58Ni (KED)	0.000 ppb	278 cps	14.3 %
59Co (KED)	0.000 ppb	17 cps	52.9 %
63Cu (KED)	0.000 ppb	2,029 cps	8.0 %
64Zn (KED)	0.000 ppb	2,020 cps	10.4 %
69Ga (KED)	0.000 ppb	36 cps	14.3 %
75As (KED)	0.000 ppb	11 cps	34.6 %
80Se (KED)	0.000 ppb	1,180 cps	2.4 %
85Rb (KED)	0.000 ppb	13 cps	100.0 %
88Sr (KED)	0.000 ppb	83 cps	10.6 %
89Y (KED)	100.551 %	483,690 cps	0.7 %
107Ag (KED)	0.000 ppb	28 cps	25.0 %
114Cd (KED)	0.000 ppb	18 cps	21.7 %
115In (KED)	102.065 %	869,605 cps	1.3 %
133Cs (KED)	0.000 ppb	17 cps	72.1 %
138Ba (KED)	0.000 ppb	636 cps	6.9 %
139La (KED)	0.000 ppb	11 cps	45.8 %
140Ce (KED)	0.000 ppb	96 cps	13.2 %
141Pr (KED)	0.000 ppb	7 cps	50.0 %
142Nd (KED)	0.000 ppb	19 cps	97.2 %
152Sm (KED)	0.000 ppb	3 cps	100.0 %
153Eu (KED)	0.000 ppb	7 cps	86.6 %
158Gd (KED)	0.000 ppb	6 cps	124.9 %
159Tb (KED)	99.128 %	4,697,321 cps	4.1 %
164Dy (KED)	0.000 ppb	9 cps	86.6 %
166Er (KED)	0.000 ppb	443 cps	0.8 %
169Tm (KED)	0.000 ppb	9 cps	86.6 %
174Yb (KED)	0.000 ppb	16 cps	75.3 %
175Lu (KED)	0.000 ppb	35,452 cps	3.1 %
205Tl (KED)	0.000 ppb	47 cps	12.4 %
208Pb (KED)	0.000 ppb	4,104 cps	7.3 %
209Bi (KED)	98.827 %	3,519,941 cps	0.2 %
232Th (KED)	0.000 ppb	88 cps	15.8 %
238U (KED)	0.000 ppb	67 cps	34.6 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 4

Analysis name: 20+20

Analysis started at: 10/28/2021 3:04:15 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	103.121 %	
9Be (KED)	20.368 ppb	1.5 %
11B (KED)	15.974 ppb	9.4 %
24Mg (KED)	19.752 ppb	4.1 %
27Al (KED)	21.227 ppb	1.7 %
45Sc (KED)	104.753 %	
51V (KED)	20.192 ppb	0.8 %
52Cr (KED)	20.181 ppb	1.1 %
55Mn (KED)	20.292 ppb	0.5 %
56Fe (KED)	20.400 ppb	0.7 %
58Ni (KED)	20.622 ppb	1.2 %
59Co (KED)	20.648 ppb	1.3 %
63Cu (KED)	20.929 ppb	1.4 %
64Zn (KED)	20.337 ppb	3.6 %
69Ga (KED)	20.375 ppb	1.2 %
75As (KED)	20.395 ppb	2.1 %
80Se (KED)	20.001 ppb	2.0 %
85Rb (KED)	20.336 ppb	1.3 %
88Sr (KED)	20.269 ppb	0.8 %
89Y (KED)	105.094 %	
107Ag (KED)	20.018 ppb	2.0 %
114Cd (KED)	20.333 ppb	0.8 %
115In (KED)	105.030 %	
133Cs (KED)	20.253 ppb	0.9 %
138Ba (KED)	19.199 ppb	3.0 %
139La (KED)	19.160 ppb	0.8 %
140Ce (KED)	18.905 ppb	2.1 %
141Pr (KED)	19.119 ppb	1.8 %
142Nd (KED)	19.438 ppb	1.5 %
152Sm (KED)	19.316 ppb	1.9 %
153Eu (KED)	19.135 ppb	1.1 %
158Gd (KED)	19.295 ppb	1.7 %
159Tb (KED)	105.842 %	
164Dy (KED)	19.116 ppb	0.4 %
166Er (KED)	18.972 ppb	0.8 %
169Tm (KED)	20.440 ppb	0.9 %
174Yb (KED)	18.865 ppb	1.4 %
175Lu (KED)	18.733 ppb	1.6 %
205Tl (KED)	18.444 ppb	1.8 %
208Pb (KED)	18.622 ppb	1.4 %
209Bi (KED)	103.877 %	
232Th (KED)	19.608 ppb	1.0 %
238U (KED)	20.014 ppb	0.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	103.121 %	3,158 cps	3.2 %
9Be (KED)	20.368 ppb	2,914 cps	1.9 %
11B (KED)	15.974 ppb	1,848 cps	5.4 %
24Mg (KED)	19.752 ppb	11,955 cps	0.9 %
27Al (KED)	21.227 ppb	3,296 cps	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.753 %	54,573 cps	1.4 %
51V (KED)	20.192 ppb	195,225 cps	1.0 %
52Cr (KED)	20.181 ppb	305,293 cps	1.0 %
55Mn (KED)	20.292 ppb	153,680 cps	1.0 %
56Fe (KED)	20.400 ppb	283,120 cps	1.4 %
58Ni (KED)	20.622 ppb	365,727 cps	0.6 %
59Co (KED)	20.648 ppb	611,269 cps	0.4 %
63Cu (KED)	20.929 ppb	452,107 cps	0.5 %
64Zn (KED)	20.337 ppb	97,868 cps	2.0 %
69Ga (KED)	20.375 ppb	148,167 cps	0.4 %
75As (KED)	20.395 ppb	30,054 cps	1.1 %
80Se (KED)	20.001 ppb	10,031 cps	2.0 %
85Rb (KED)	20.336 ppb	137,842 cps	1.1 %
88Sr (KED)	20.269 ppb	194,325 cps	1.4 %
89Y (KED)	105.094 %	505,544 cps	1.5 %
107Ag (KED)	20.018 ppb	1,211,978 cps	1.9 %
114Cd (KED)	20.333 ppb	385,111 cps	0.8 %
115In (KED)	105.030 %	894,869 cps	0.2 %
133Cs (KED)	20.253 ppb	651,779 cps	0.7 %
138Ba (KED)	19.199 ppb	878,185 cps	2.4 %
139La (KED)	19.160 ppb	1,877,640 cps	0.3 %
140Ce (KED)	18.905 ppb	2,481,264 cps	1.1 %
141Pr (KED)	19.119 ppb	2,614,465 cps	1.1 %
142Nd (KED)	19.438 ppb	1,065,982 cps	1.9 %
152Sm (KED)	19.316 ppb	964,553 cps	1.0 %
153Eu (KED)	19.135 ppb	1,933,934 cps	0.4 %
158Gd (KED)	19.295 ppb	1,305,422 cps	0.8 %
159Tb (KED)	105.842 %	5,015,495 cps	1.1 %
164Dy (KED)	19.116 ppb	1,456,237 cps	0.8 %
166Er (KED)	18.972 ppb	1,716,603 cps	1.4 %
169Tm (KED)	20.440 ppb	6,175,363 cps	0.2 %
174Yb (KED)	18.865 ppb	2,008,015 cps	0.7 %
175Lu (KED)	18.733 ppb	3,412,458 cps	1.1 %
205Tl (KED)	18.444 ppb	3,799,556 cps	1.9 %
208Pb (KED)	18.622 ppb	2,715,571 cps	1.8 %
209Bi (KED)	103.877 %	3,699,815 cps	1.1 %
232Th (KED)	19.608 ppb	5,661,330 cps	1.1 %
238U (KED)	20.014 ppb	6,827,444 cps	0.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 5

Analysis name: 50+20

Analysis started at: 10/28/2021 3:07:37 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	98.439 %	
9Be (KED)	51.613 ppb	1.9 %
11B (KED)	49.447 ppb	5.0 %
24Mg (KED)	51.022 ppb	2.2 %
27Al (KED)	50.068 ppb	1.3 %
45Sc (KED)	104.142 %	
51V (KED)	49.738 ppb	0.8 %
52Cr (KED)	49.584 ppb	2.3 %
55Mn (KED)	49.525 ppb	1.6 %
56Fe (KED)	49.964 ppb	1.2 %
58Ni (KED)	51.057 ppb	2.1 %
59Co (KED)	50.610 ppb	2.1 %
63Cu (KED)	50.708 ppb	0.8 %
64Zn (KED)	50.140 ppb	0.5 %
69Ga (KED)	50.174 ppb	0.8 %
75As (KED)	49.650 ppb	1.6 %
80Se (KED)	49.874 ppb	2.4 %
85Rb (KED)	50.178 ppb	0.6 %
88Sr (KED)	50.002 ppb	0.8 %
89Y (KED)	104.447 %	
107Ag (KED)	48.857 ppb	2.1 %
114Cd (KED)	50.151 ppb	2.8 %
115In (KED)	104.497 %	
133Cs (KED)	49.509 ppb	1.8 %
138Ba (KED)	47.712 ppb	1.4 %
139La (KED)	49.614 ppb	0.6 %
140Ce (KED)	49.924 ppb	1.3 %
141Pr (KED)	50.546 ppb	0.9 %
142Nd (KED)	47.764 ppb	1.1 %
152Sm (KED)	47.723 ppb	0.6 %
153Eu (KED)	49.843 ppb	1.2 %
158Gd (KED)	46.622 ppb	0.5 %
159Tb (KED)	106.134 %	
164Dy (KED)	46.399 ppb	1.2 %
166Er (KED)	47.365 ppb	1.2 %
169Tm (KED)	50.107 ppb	1.1 %
174Yb (KED)	50.499 ppb	0.3 %
175Lu (KED)	50.421 ppb	0.8 %
205Tl (KED)	49.637 ppb	2.9 %
208Pb (KED)	49.992 ppb	1.5 %
209Bi (KED)	102.540 %	
232Th (KED)	48.851 ppb	3.4 %
238U (KED)	49.694 ppb	1.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	98.439 %	3,015 cps	1.2 %
9Be (KED)	51.613 ppb	7,050 cps	1.7 %
11B (KED)	49.447 ppb	4,333 cps	3.2 %
24Mg (KED)	51.022 ppb	29,287 cps	1.0 %
27Al (KED)	50.068 ppb	7,619 cps	1.7 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.142 %	54,256 cps	1.4 %
51V (KED)	49.738 ppb	478,067 cps	0.7 %
52Cr (KED)	49.584 ppb	745,553 cps	1.3 %
55Mn (KED)	49.525 ppb	372,789 cps	0.7 %
56Fe (KED)	49.964 ppb	686,296 cps	1.1 %
58Ni (KED)	51.057 ppb	899,747 cps	1.1 %
59Co (KED)	50.610 ppb	1,489,388 cps	0.8 %
63Cu (KED)	50.708 ppb	1,085,783 cps	0.7 %
64Zn (KED)	50.140 ppb	236,810 cps	0.4 %
69Ga (KED)	50.174 ppb	362,615 cps	0.8 %
75As (KED)	49.650 ppb	72,708 cps	1.6 %
80Se (KED)	49.874 ppb	23,029 cps	2.4 %
85Rb (KED)	50.178 ppb	338,032 cps	0.6 %
88Sr (KED)	50.002 ppb	476,323 cps	0.9 %
89Y (KED)	104.447 %	502,432 cps	0.4 %
107Ag (KED)	48.857 ppb	2,942,454 cps	1.2 %
114Cd (KED)	50.151 ppb	944,835 cps	2.0 %
115In (KED)	104.497 %	890,324 cps	1.5 %
133Cs (KED)	49.509 ppb	1,584,895 cps	0.7 %
138Ba (KED)	47.712 ppb	2,187,909 cps	2.3 %
139La (KED)	49.614 ppb	4,875,637 cps	0.7 %
140Ce (KED)	49.924 ppb	6,570,973 cps	1.1 %
141Pr (KED)	50.546 ppb	6,931,776 cps	1.2 %
142Nd (KED)	47.764 ppb	2,626,660 cps	1.7 %
152Sm (KED)	47.723 ppb	2,390,025 cps	1.6 %
153Eu (KED)	49.843 ppb	5,051,493 cps	0.6 %
158Gd (KED)	46.622 ppb	3,163,173 cps	0.8 %
159Tb (KED)	106.134 %	5,029,330 cps	1.1 %
164Dy (KED)	46.399 ppb	3,544,427 cps	1.7 %
166Er (KED)	47.365 ppb	4,297,048 cps	2.1 %
169Tm (KED)	50.107 ppb	15,181,401 cps	2.0 %
174Yb (KED)	50.499 ppb	5,390,592 cps	1.2 %
175Lu (KED)	50.421 ppb	9,147,086 cps	1.8 %
205Tl (KED)	49.637 ppb	10,092,252 cps	2.0 %
208Pb (KED)	49.992 ppb	7,188,481 cps	0.6 %
209Bi (KED)	102.540 %	3,652,184 cps	1.0 %
232Th (KED)	48.851 ppb	13,920,474 cps	2.5 %
238U (KED)	49.694 ppb	16,733,437 cps	0.5 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 6

Analysis name: 100+20

Analysis started at: 10/28/2021 3:10:49 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	101.887 %	
9Be (KED)	99.120 ppb	2.7 %
11B (KED)	101.082 ppb	4.0 %
24Mg (KED)	99.539 ppb	3.3 %
27Al (KED)	99.721 ppb	1.0 %
45Sc (KED)	106.880 %	
51V (KED)	100.093 ppb	0.7 %
52Cr (KED)	100.172 ppb	1.5 %
55Mn (KED)	100.179 ppb	0.8 %
56Fe (KED)	99.938 ppb	1.8 %
58Ni (KED)	99.347 ppb	0.8 %
59Co (KED)	99.566 ppb	1.5 %
63Cu (KED)	99.460 ppb	1.2 %
64Zn (KED)	99.863 ppb	1.6 %
69Ga (KED)	99.838 ppb	1.2 %
75As (KED)	100.096 ppb	1.1 %
80Se (KED)	100.063 ppb	0.4 %
85Rb (KED)	99.844 ppb	1.1 %
88Sr (KED)	99.945 ppb	1.1 %
89Y (KED)	107.315 %	
107Ag (KED)	100.568 ppb	1.5 %
114Cd (KED)	99.858 ppb	1.3 %
115In (KED)	106.097 %	
133Cs (KED)	100.195 ppb	1.7 %
138Ba (KED)	101.304 ppb	0.8 %
139La (KED)	100.361 ppb	1.4 %
140Ce (KED)	100.257 ppb	1.8 %
141Pr (KED)	99.903 ppb	1.8 %
142Nd (KED)	101.230 ppb	1.0 %
152Sm (KED)	101.275 ppb	0.6 %
153Eu (KED)	100.252 ppb	0.7 %
158Gd (KED)	101.830 ppb	1.3 %
159Tb (KED)	107.710 %	
164Dy (KED)	101.977 ppb	1.3 %
166Er (KED)	101.523 ppb	0.3 %
169Tm (KED)	99.859 ppb	0.4 %
174Yb (KED)	99.977 ppb	2.4 %
175Lu (KED)	100.043 ppb	2.1 %
205Tl (KED)	100.493 ppb	0.8 %
208Pb (KED)	100.280 ppb	1.2 %
209Bi (KED)	103.310 %	
232Th (KED)	100.653 ppb	1.0 %
238U (KED)	100.150 ppb	1.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	101.887 %	3,120 cps	3.5 %
9Be (KED)	99.120 ppb	14,006 cps	1.3 %
11B (KED)	101.082 ppb	8,581 cps	0.9 %
24Mg (KED)	99.539 ppb	58,976 cps	2.0 %
27Al (KED)	99.721 ppb	15,491 cps	0.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.880 %	55,682 cps	0.2 %
51V (KED)	100.093 ppb	987,427 cps	0.8 %
52Cr (KED)	100.172 ppb	1,546,053 cps	1.5 %
55Mn (KED)	100.179 ppb	773,950 cps	0.8 %
56Fe (KED)	99.938 ppb	1,406,762 cps	1.9 %
58Ni (KED)	99.347 ppb	1,796,783 cps	0.9 %
59Co (KED)	99.566 ppb	3,007,688 cps	1.5 %
63Cu (KED)	99.460 ppb	2,186,024 cps	1.3 %
64Zn (KED)	99.863 ppb	482,421 cps	0.9 %
69Ga (KED)	99.838 ppb	741,329 cps	1.7 %
75As (KED)	100.096 ppb	150,584 cps	0.2 %
80Se (KED)	100.063 ppb	46,205 cps	1.6 %
85Rb (KED)	99.844 ppb	691,014 cps	0.1 %
88Sr (KED)	99.945 ppb	978,068 cps	0.6 %
89Y (KED)	107.315 %	516,232 cps	1.2 %
107Ag (KED)	100.568 ppb	6,149,972 cps	0.5 %
114Cd (KED)	99.858 ppb	1,910,315 cps	0.4 %
115In (KED)	106.097 %	903,960 cps	1.0 %
133Cs (KED)	100.195 ppb	3,256,919 cps	1.5 %
138Ba (KED)	101.304 ppb	4,713,266 cps	0.6 %
139La (KED)	100.361 ppb	10,009,190 cps	1.2 %
140Ce (KED)	100.257 ppb	13,392,033 cps	1.5 %
141Pr (KED)	99.903 ppb	13,904,238 cps	1.8 %
142Nd (KED)	101.230 ppb	5,649,300 cps	0.7 %
152Sm (KED)	101.275 ppb	5,147,110 cps	0.3 %
153Eu (KED)	100.252 ppb	10,311,913 cps	0.6 %
158Gd (KED)	101.830 ppb	7,011,705 cps	1.3 %
159Tb (KED)	107.710 %	5,104,032 cps	0.3 %
164Dy (KED)	101.977 ppb	7,905,388 cps	1.0 %
166Er (KED)	101.523 ppb	9,346,055 cps	0.5 %
169Tm (KED)	99.859 ppb	30,702,988 cps	0.3 %
174Yb (KED)	99.977 ppb	10,830,192 cps	2.2 %
175Lu (KED)	100.043 ppb	18,379,055 cps	1.9 %
205Tl (KED)	100.493 ppb	20,589,574 cps	0.7 %
208Pb (KED)	100.280 ppb	14,524,982 cps	1.2 %
209Bi (KED)	103.310 %	3,679,624 cps	0.1 %
232Th (KED)	100.653 ppb	28,902,877 cps	0.9 %
238U (KED)	100.150 ppb	33,979,181 cps	1.6 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 7

Analysis name: 03039jian

Analysis started at: 10/28/2021 3:14:01 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	102.649 %	0.8 %
9Be (KED)	0.039 ppb	91.6 %
11B (KED)	13.522 ppb	4.9 %
24Mg (KED)	138.447 ppb	0.9 %
27Al (KED)	152.483 ppb	1.6 %
45Sc (KED)	98.295 %	1.4 %
51V (KED)	0.315 ppb	0.6 %
52Cr (KED)	1.480 ppb	2.3 %
55Mn (KED)	3.994 ppb	1.9 %
56Fe (KED)	183.142 ppb	2.2 %
58Ni (KED)	1.024 ppb	0.9 %
59Co (KED)	0.094 ppb	5.8 %
63Cu (KED)	2.681 ppb	1.7 %
64Zn (KED)	51.054 ppb	1.3 %
69Ga (KED)	0.701 ppb	4.0 %
75As (KED)	0.127 ppb	11.3 %
80Se (KED)	-0.014 ppb	1,272.9 %
85Rb (KED)	0.400 ppb	3.3 %
88Sr (KED)	2.591 ppb	1.7 %
89Y (KED)	100.441 %	1.2 %
107Ag (KED)	0.053 ppb	10.1 %
114Cd (KED)	0.016 ppb	9.7 %
115In (KED)	98.862 %	0.5 %
133Cs (KED)	0.025 ppb	11.3 %
138Ba (KED)	2.418 ppb	3.7 %
139La (KED)	0.193 ppb	3.7 %
140Ce (KED)	0.400 ppb	3.5 %
141Pr (KED)	0.051 ppb	7.6 %
142Nd (KED)	0.250 ppb	4.1 %
152Sm (KED)	0.033 ppb	11.1 %
153Eu (KED)	0.009 ppb	27.3 %
158Gd (KED)	0.027 ppb	15.0 %
159Tb (KED)	101.793 %	2.8 %
164Dy (KED)	0.020 ppb	18.2 %
166Er (KED)	0.011 ppb	30.7 %
169Tm (KED)	0.004 ppb	61.0 %
174Yb (KED)	0.011 ppb	36.2 %
175Lu (KED)	-0.067 ppb	18.2 %
205Tl (KED)	0.007 ppb	27.0 %
208Pb (KED)	0.319 ppb	1.6 %
209Bi (KED)	98.040 %	0.9 %
232Th (KED)	0.146 ppb	53.7 %
238U (KED)	0.016 ppb	24.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	102.649 %	3,144 cps	0.8 %
9Be (KED)	0.039 ppb	6 cps	91.7 %
11B (KED)	13.522 ppb	1,645 cps	2.4 %
24Mg (KED)	138.447 ppb	82,643 cps	1.5 %
27Al (KED)	152.483 ppb	21,747 cps	3.0 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	98.295 %	51,209 cps	1.4 %
51V (KED)	0.315 ppb	2,858 cps	2.0 %
52Cr (KED)	1.480 ppb	21,056 cps	2.0 %
55Mn (KED)	3.994 ppb	28,418 cps	1.9 %
56Fe (KED)	183.142 ppb	2,368,756 cps	0.9 %
58Ni (KED)	1.024 ppb	17,293 cps	0.9 %
59Co (KED)	0.094 ppb	2,623 cps	6.8 %
63Cu (KED)	2.681 ppb	57,110 cps	0.9 %
64Zn (KED)	51.054 ppb	231,826 cps	0.8 %
69Ga (KED)	0.701 ppb	4,909 cps	5.1 %
75As (KED)	0.127 ppb	190 cps	11.0 %
80Se (KED)	-0.014 ppb	1,172 cps	5.4 %
85Rb (KED)	0.400 ppb	2,606 cps	2.8 %
88Sr (KED)	2.591 ppb	23,809 cps	1.1 %
89Y (KED)	100.441 %	483,162 cps	1.2 %
107Ag (KED)	0.053 ppb	3,020 cps	9.8 %
114Cd (KED)	0.016 ppb	302 cps	9.6 %
115In (KED)	98.862 %	842,312 cps	0.5 %
133Cs (KED)	0.025 ppb	770 cps	11.4 %
138Ba (KED)	2.418 ppb	106,875 cps	1.2 %
139La (KED)	0.193 ppb	18,184 cps	1.1 %
140Ce (KED)	0.400 ppb	50,506 cps	1.6 %
141Pr (KED)	0.051 ppb	6,656 cps	4.7 %
142Nd (KED)	0.250 ppb	13,215 cps	1.3 %
152Sm (KED)	0.033 ppb	1,601 cps	8.2 %
153Eu (KED)	0.009 ppb	894 cps	24.1 %
158Gd (KED)	0.027 ppb	1,763 cps	12.3 %
159Tb (KED)	101.793 %	4,823,626 cps	2.8 %
164Dy (KED)	0.020 ppb	1,477 cps	15.1 %
166Er (KED)	0.011 ppb	1,377 cps	17.6 %
169Tm (KED)	0.004 ppb	1,180 cps	57.6 %
174Yb (KED)	0.011 ppb	1,116 cps	32.7 %
175Lu (KED)	-0.067 ppb	24,729 cps	5.8 %
205Tl (KED)	0.007 ppb	1,443 cps	26.1 %
208Pb (KED)	0.319 ppb	47,954 cps	0.9 %
209Bi (KED)	98.040 %	3,491,909 cps	0.9 %
232Th (KED)	0.146 ppb	39,963 cps	53.8 %
238U (KED)	0.016 ppb	5,264 cps	23.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 8

Analysis name: 03036jian

Analysis started at: 10/28/2021 3:17:14 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	102.830 %	1.8 %
9Be (KED)	0.047 ppb	51.6 %
11B (KED)	4.192 ppb	11.0 %
24Mg (KED)	147.632 ppb	4.3 %
27Al (KED)	152.570 ppb	1.3 %
45Sc (KED)	99.407 %	3.2 %
51V (KED)	0.279 ppb	2.5 %
52Cr (KED)	1.375 ppb	0.9 %
55Mn (KED)	3.329 ppb	1.3 %
56Fe (KED)	153.311 ppb	1.9 %
58Ni (KED)	1.037 ppb	3.3 %
59Co (KED)	0.074 ppb	4.6 %
63Cu (KED)	2.828 ppb	0.5 %
64Zn (KED)	55.793 ppb	1.2 %
69Ga (KED)	0.627 ppb	6.6 %
75As (KED)	0.107 ppb	9.5 %
80Se (KED)	0.154 ppb	111.3 %
85Rb (KED)	1.264 ppb	4.1 %
88Sr (KED)	2.595 ppb	2.4 %
89Y (KED)	98.385 %	0.7 %
107Ag (KED)	0.109 ppb	2.5 %
114Cd (KED)	0.015 ppb	9.9 %
115In (KED)	97.006 %	0.6 %
133Cs (KED)	0.024 ppb	8.3 %
138Ba (KED)	2.067 ppb	1.6 %
139La (KED)	0.173 ppb	2.6 %
140Ce (KED)	0.393 ppb	4.5 %
141Pr (KED)	0.045 ppb	4.7 %
142Nd (KED)	0.239 ppb	2.7 %
152Sm (KED)	0.027 ppb	8.9 %
153Eu (KED)	0.006 ppb	12.0 %
158Gd (KED)	0.023 ppb	11.5 %
159Tb (KED)	100.716 %	2.5 %
164Dy (KED)	0.016 ppb	11.7 %
166Er (KED)	0.007 ppb	22.4 %
169Tm (KED)	0.002 ppb	49.0 %
174Yb (KED)	0.007 ppb	14.4 %
175Lu (KED)	-0.077 ppb	11.0 %
205Tl (KED)	0.004 ppb	2.5 %
208Pb (KED)	0.371 ppb	3.1 %
209Bi (KED)	96.708 %	0.6 %
232Th (KED)	0.050 ppb	15.5 %
238U (KED)	0.013 ppb	6.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	102.830 %	3,149 cps	1.8 %
9Be (KED)	0.047 ppb	7 cps	50.0 %
11B (KED)	4.192 ppb	900 cps	5.5 %
24Mg (KED)	147.632 ppb	88,244 cps	3.7 %
27Al (KED)	152.570 ppb	21,998 cps	2.6 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	99.407 %	51,788 cps	3.2 %
51V (KED)	0.279 ppb	2,564 cps	2.2 %
52Cr (KED)	1.375 ppb	19,782 cps	2.9 %
55Mn (KED)	3.329 ppb	23,961 cps	2.9 %
56Fe (KED)	153.311 ppb	2,005,290 cps	1.5 %
58Ni (KED)	1.037 ppb	17,699 cps	0.9 %
59Co (KED)	0.074 ppb	2,088 cps	3.8 %
63Cu (KED)	2.828 ppb	58,905 cps	0.3 %
64Zn (KED)	55.793 ppb	248,009 cps	1.9 %
69Ga (KED)	0.627 ppb	4,301 cps	7.2 %
75As (KED)	0.107 ppb	159 cps	8.5 %
80Se (KED)	0.154 ppb	1,218 cps	5.2 %
85Rb (KED)	1.264 ppb	8,034 cps	4.3 %
88Sr (KED)	2.595 ppb	23,364 cps	3.1 %
89Y (KED)	98.385 %	473,274 cps	0.7 %
107Ag (KED)	0.109 ppb	6,127 cps	2.7 %
114Cd (KED)	0.015 ppb	283 cps	9.6 %
115In (KED)	97.006 %	826,505 cps	0.6 %
133Cs (KED)	0.024 ppb	741 cps	8.6 %
138Ba (KED)	2.067 ppb	90,548 cps	1.4 %
139La (KED)	0.173 ppb	16,156 cps	1.0 %
140Ce (KED)	0.393 ppb	49,171 cps	1.9 %
141Pr (KED)	0.045 ppb	5,807 cps	2.3 %
142Nd (KED)	0.239 ppb	12,476 cps	0.1 %
152Sm (KED)	0.027 ppb	1,300 cps	6.9 %
153Eu (KED)	0.006 ppb	542 cps	9.2 %
158Gd (KED)	0.023 ppb	1,497 cps	10.1 %
159Tb (KED)	100.716 %	4,772,611 cps	2.5 %
164Dy (KED)	0.016 ppb	1,160 cps	10.1 %
166Er (KED)	0.007 ppb	1,084 cps	11.1 %
169Tm (KED)	0.002 ppb	541 cps	45.4 %
174Yb (KED)	0.007 ppb	722 cps	11.4 %
175Lu (KED)	-0.077 ppb	22,874 cps	4.4 %
205Tl (KED)	0.004 ppb	793 cps	2.2 %
208Pb (KED)	0.371 ppb	54,232 cps	2.4 %
209Bi (KED)	96.708 %	3,444,459 cps	0.6 %
232Th (KED)	0.050 ppb	13,574 cps	14.9 %
238U (KED)	0.013 ppb	4,194 cps	6.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 9

Analysis name: 03023ti

Analysis started at: 10/28/2021 3:20:14 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.056 %	3.1 %
9Be (KED)	0.015 ppb	86.6 %
11B (KED)	10.222 ppb	16.7 %
24Mg (KED)	166.269 ppb	3.6 %
27Al (KED)	167.268 ppb	0.4 %
45Sc (KED)	100.422 %	1.6 %
51V (KED)	0.354 ppb	1.4 %
52Cr (KED)	1.173 ppb	0.7 %
55Mn (KED)	4.818 ppb	0.8 %
56Fe (KED)	205.539 ppb	1.0 %
58Ni (KED)	0.992 ppb	1.5 %
59Co (KED)	0.106 ppb	6.4 %
63Cu (KED)	3.284 ppb	1.0 %
64Zn (KED)	56.364 ppb	2.1 %
69Ga (KED)	0.845 ppb	3.7 %
75As (KED)	0.141 ppb	15.4 %
80Se (KED)	0.012 ppb	615.7 %
85Rb (KED)	0.667 ppb	2.0 %
88Sr (KED)	3.171 ppb	2.0 %
89Y (KED)	100.781 %	1.0 %
107Ag (KED)	0.019 ppb	6.1 %
114Cd (KED)	0.017 ppb	6.3 %
115In (KED)	98.540 %	1.1 %
133Cs (KED)	0.026 ppb	9.2 %
138Ba (KED)	2.928 ppb	4.2 %
139La (KED)	0.227 ppb	5.1 %
140Ce (KED)	0.483 ppb	3.3 %
141Pr (KED)	0.052 ppb	3.6 %
142Nd (KED)	0.286 ppb	7.0 %
152Sm (KED)	0.036 ppb	6.2 %
153Eu (KED)	0.007 ppb	11.9 %
158Gd (KED)	0.030 ppb	5.7 %
159Tb (KED)	100.190 %	4.1 %
164Dy (KED)	0.019 ppb	7.0 %
166Er (KED)	0.010 ppb	17.0 %
169Tm (KED)	0.001 ppb	21.4 %
174Yb (KED)	0.008 ppb	8.7 %
175Lu (KED)	-0.074 ppb	7.4 %
205Tl (KED)	0.003 ppb	4.6 %
208Pb (KED)	0.349 ppb	1.3 %
209Bi (KED)	98.264 %	1.7 %
232Th (KED)	0.053 ppb	0.7 %
238U (KED)	0.012 ppb	3.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.056 %	3,309 cps	3.1 %
9Be (KED)	0.015 ppb	2 cps	86.6 %
11B (KED)	10.222 ppb	1,453 cps	10.2 %
24Mg (KED)	166.269 ppb	104,370 cps	0.9 %
27Al (KED)	167.268 ppb	24,360 cps	1.7 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.422 %	52,317 cps	1.6 %
51V (KED)	0.354 ppb	3,284 cps	2.7 %
52Cr (KED)	1.173 ppb	17,048 cps	1.4 %
55Mn (KED)	4.818 ppb	35,018 cps	2.0 %
56Fe (KED)	205.539 ppb	2,715,999 cps	0.8 %
58Ni (KED)	0.992 ppb	17,141 cps	2.7 %
59Co (KED)	0.106 ppb	3,018 cps	4.8 %
63Cu (KED)	3.284 ppb	69,744 cps	1.4 %
64Zn (KED)	56.364 ppb	256,624 cps	2.5 %
69Ga (KED)	0.845 ppb	5,933 cps	4.7 %
75As (KED)	0.141 ppb	210 cps	13.6 %
80Se (KED)	0.012 ppb	1,188 cps	3.6 %
85Rb (KED)	0.667 ppb	4,346 cps	1.2 %
88Sr (KED)	3.171 ppb	29,224 cps	2.1 %
89Y (KED)	100.781 %	484,798 cps	1.0 %
107Ag (KED)	0.019 ppb	1,113 cps	5.3 %
114Cd (KED)	0.017 ppb	321 cps	4.9 %
115In (KED)	98.540 %	839,574 cps	1.1 %
133Cs (KED)	0.026 ppb	794 cps	8.2 %
138Ba (KED)	2.928 ppb	127,178 cps	0.3 %
139La (KED)	0.227 ppb	21,013 cps	1.2 %
140Ce (KED)	0.483 ppb	60,003 cps	1.0 %
141Pr (KED)	0.052 ppb	6,712 cps	0.7 %
142Nd (KED)	0.286 ppb	14,834 cps	4.3 %
152Sm (KED)	0.036 ppb	1,709 cps	2.5 %
153Eu (KED)	0.007 ppb	657 cps	7.5 %
158Gd (KED)	0.030 ppb	1,930 cps	5.5 %
159Tb (KED)	100.190 %	4,747,672 cps	4.1 %
164Dy (KED)	0.019 ppb	1,395 cps	3.5 %
166Er (KED)	0.010 ppb	1,295 cps	10.5 %
169Tm (KED)	0.001 ppb	394 cps	18.7 %
174Yb (KED)	0.008 ppb	772 cps	5.1 %
175Lu (KED)	-0.074 ppb	23,202 cps	0.8 %
205Tl (KED)	0.003 ppb	692 cps	5.7 %
208Pb (KED)	0.349 ppb	52,178 cps	1.3 %
209Bi (KED)	98.264 %	3,499,896 cps	1.7 %
232Th (KED)	0.053 ppb	14,607 cps	2.3 %
238U (KED)	0.012 ppb	3,781 cps	2.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 10

Analysis name: 03001ti

Analysis started at: 10/28/2021 3:23:25 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.294 %	0.5 %
9Be (KED)	0.015 ppb	86.6 %
11B (KED)	-1.283 ppb	87.8 %
24Mg (KED)	199.470 ppb	1.3 %
27Al (KED)	244.915 ppb	1.5 %
45Sc (KED)	104.851 %	1.9 %
51V (KED)	0.458 ppb	2.0 %
52Cr (KED)	1.114 ppb	1.0 %
55Mn (KED)	5.413 ppb	1.5 %
56Fe (KED)	272.519 ppb	2.9 %
58Ni (KED)	1.250 ppb	2.4 %
59Co (KED)	0.120 ppb	2.3 %
63Cu (KED)	2.768 ppb	1.4 %
64Zn (KED)	55.166 ppb	1.7 %
69Ga (KED)	1.045 ppb	0.6 %
75As (KED)	0.192 ppb	4.5 %
80Se (KED)	0.111 ppb	113.6 %
85Rb (KED)	0.685 ppb	2.7 %
88Sr (KED)	3.447 ppb	1.5 %
89Y (KED)	102.975 %	1.4 %
107Ag (KED)	0.013 ppb	14.3 %
114Cd (KED)	0.014 ppb	6.7 %
115In (KED)	101.124 %	1.4 %
133Cs (KED)	0.034 ppb	2.4 %
138Ba (KED)	3.683 ppb	2.2 %
139La (KED)	0.330 ppb	1.3 %
140Ce (KED)	0.711 ppb	2.5 %
141Pr (KED)	0.081 ppb	0.4 %
142Nd (KED)	0.434 ppb	4.0 %
152Sm (KED)	0.055 ppb	2.8 %
153Eu (KED)	0.009 ppb	9.8 %
158Gd (KED)	0.045 ppb	4.3 %
159Tb (KED)	104.617 %	1.2 %
164Dy (KED)	0.028 ppb	2.5 %
166Er (KED)	0.013 ppb	1.0 %
169Tm (KED)	0.002 ppb	5.8 %
174Yb (KED)	0.010 ppb	4.3 %
175Lu (KED)	-0.089 ppb	3.0 %
205Tl (KED)	0.004 ppb	3.7 %
208Pb (KED)	0.312 ppb	1.2 %
209Bi (KED)	98.910 %	0.3 %
232Th (KED)	0.104 ppb	1.6 %
238U (KED)	0.015 ppb	3.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.294 %	3,286 cps	0.5 %
9Be (KED)	0.015 ppb	2 cps	86.6 %
11B (KED)	-1.283 ppb	481 cps	20.1 %
24Mg (KED)	199.470 ppb	124,384 cps	1.0 %
27Al (KED)	244.915 ppb	37,203 cps	2.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.851 %	54,625 cps	1.9 %
51V (KED)	0.458 ppb	4,432 cps	3.7 %
52Cr (KED)	1.114 ppb	16,908 cps	1.0 %
55Mn (KED)	5.413 ppb	41,065 cps	1.8 %
56Fe (KED)	272.519 ppb	3,758,407 cps	1.7 %
58Ni (KED)	1.250 ppb	22,465 cps	0.6 %
59Co (KED)	0.120 ppb	3,575 cps	3.2 %
63Cu (KED)	2.768 ppb	60,388 cps	1.4 %
64Zn (KED)	55.166 ppb	256,632 cps	0.3 %
69Ga (KED)	1.045 ppb	7,481 cps	0.8 %
75As (KED)	0.192 ppb	288 cps	3.7 %
80Se (KED)	0.111 ppb	1,256 cps	3.1 %
85Rb (KED)	0.685 ppb	4,563 cps	3.4 %
88Sr (KED)	3.447 ppb	32,449 cps	0.3 %
89Y (KED)	102.975 %	495,352 cps	1.4 %
107Ag (KED)	0.013 ppb	804 cps	12.5 %
114Cd (KED)	0.014 ppb	269 cps	5.2 %
115In (KED)	101.124 %	861,587 cps	1.4 %
133Cs (KED)	0.034 ppb	1,080 cps	3.5 %
138Ba (KED)	3.683 ppb	167,055 cps	1.5 %
139La (KED)	0.330 ppb	31,999 cps	0.3 %
140Ce (KED)	0.711 ppb	92,342 cps	1.4 %
141Pr (KED)	0.081 ppb	10,960 cps	1.5 %
142Nd (KED)	0.434 ppb	23,551 cps	2.8 %
152Sm (KED)	0.055 ppb	2,700 cps	1.7 %
153Eu (KED)	0.009 ppb	892 cps	8.6 %
158Gd (KED)	0.045 ppb	3,031 cps	3.2 %
159Tb (KED)	104.617 %	4,957,447 cps	1.2 %
164Dy (KED)	0.028 ppb	2,150 cps	3.6 %
166Er (KED)	0.013 ppb	1,597 cps	0.6 %
169Tm (KED)	0.002 ppb	549 cps	4.6 %
174Yb (KED)	0.010 ppb	1,102 cps	4.3 %
175Lu (KED)	-0.089 ppb	21,637 cps	1.6 %
205Tl (KED)	0.004 ppb	766 cps	3.3 %
208Pb (KED)	0.312 ppb	47,364 cps	0.9 %
209Bi (KED)	98.910 %	3,522,884 cps	0.3 %
232Th (KED)	0.104 ppb	28,578 cps	1.4 %
238U (KED)	0.015 ppb	4,814 cps	3.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 11

Analysis name: 03042ti

Analysis started at: 10/28/2021 3:26:35 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	104.064 %	4.5 %
9Be (KED)	0.015 ppb	86.8 %
11B (KED)	21.455 ppb	7.5 %
24Mg (KED)	515.801 ppb	4.3 %
27Al (KED)	606.879 ppb	2.0 %
45Sc (KED)	102.819 %	1.9 %
51V (KED)	1.210 ppb	5.1 %
52Cr (KED)	1.990 ppb	2.9 %
55Mn (KED)	15.134 ppb	2.2 %
56Fe (KED)	776.573 ppb	3.1 %
58Ni (KED)	7.322 ppb	0.9 %
59Co (KED)	0.336 ppb	2.7 %
63Cu (KED)	3.196 ppb	0.7 %
64Zn (KED)	55.907 ppb	0.4 %
69Ga (KED)	2.341 ppb	2.2 %
75As (KED)	0.321 ppb	15.0 %
80Se (KED)	-0.128 ppb	128.7 %
85Rb (KED)	1.295 ppb	3.6 %
88Sr (KED)	9.451 ppb	1.2 %
89Y (KED)	102.540 %	1.1 %
107Ag (KED)	0.018 ppb	2.9 %
114Cd (KED)	0.021 ppb	8.8 %
115In (KED)	99.311 %	1.6 %
133Cs (KED)	0.085 ppb	7.0 %
138Ba (KED)	8.121 ppb	0.7 %
139La (KED)	0.823 ppb	2.2 %
140Ce (KED)	1.690 ppb	2.0 %
141Pr (KED)	0.196 ppb	1.9 %
142Nd (KED)	1.069 ppb	0.5 %
152Sm (KED)	0.130 ppb	3.3 %
153Eu (KED)	0.025 ppb	3.4 %
158Gd (KED)	0.112 ppb	2.4 %
159Tb (KED)	103.573 %	0.7 %
164Dy (KED)	0.076 ppb	1.2 %
166Er (KED)	0.036 ppb	2.5 %
169Tm (KED)	0.005 ppb	2.1 %
174Yb (KED)	0.030 ppb	3.2 %
175Lu (KED)	-0.086 ppb	1.6 %
205Tl (KED)	0.007 ppb	2.1 %
208Pb (KED)	0.578 ppb	3.1 %
209Bi (KED)	97.970 %	0.7 %
232Th (KED)	0.187 ppb	1.9 %
238U (KED)	0.036 ppb	3.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	104.064 %	3,187 cps	4.5 %
9Be (KED)	0.015 ppb	2 cps	86.6 %
11B (KED)	21.455 ppb	2,308 cps	3.2 %
24Mg (KED)	515.801 ppb	311,346 cps	0.5 %
27Al (KED)	606.879 ppb	90,259 cps	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.819 %	53,566 cps	1.9 %
51V (KED)	1.210 ppb	11,481 cps	3.3 %
52Cr (KED)	1.990 ppb	29,583 cps	1.4 %
55Mn (KED)	15.134 ppb	112,488 cps	0.4 %
56Fe (KED)	776.573 ppb	10,497,860 cps	1.4 %
58Ni (KED)	7.322 ppb	127,640 cps	1.1 %
59Co (KED)	0.336 ppb	9,769 cps	2.7 %
63Cu (KED)	3.196 ppb	69,124 cps	0.7 %
64Zn (KED)	55.907 ppb	258,991 cps	1.1 %
69Ga (KED)	2.341 ppb	16,642 cps	1.2 %
75As (KED)	0.321 ppb	473 cps	15.6 %
80Se (KED)	-0.128 ppb	1,149 cps	7.2 %
85Rb (KED)	1.295 ppb	8,574 cps	2.7 %
88Sr (KED)	9.451 ppb	88,452 cps	0.0 %
89Y (KED)	102.540 %	493,259 cps	1.1 %
107Ag (KED)	0.018 ppb	1,080 cps	3.8 %
114Cd (KED)	0.021 ppb	387 cps	9.9 %
115In (KED)	99.311 %	846,144 cps	1.6 %
133Cs (KED)	0.085 ppb	2,597 cps	5.3 %
138Ba (KED)	8.121 ppb	363,914 cps	0.4 %
139La (KED)	0.823 ppb	78,954 cps	1.5 %
140Ce (KED)	1.690 ppb	217,216 cps	1.3 %
141Pr (KED)	0.196 ppb	26,226 cps	1.3 %
142Nd (KED)	1.069 ppb	57,365 cps	0.8 %
152Sm (KED)	0.130 ppb	6,381 cps	3.7 %
153Eu (KED)	0.025 ppb	2,526 cps	2.9 %
158Gd (KED)	0.112 ppb	7,422 cps	1.7 %
159Tb (KED)	103.573 %	4,907,988 cps	0.7 %
164Dy (KED)	0.076 ppb	5,655 cps	1.1 %
166Er (KED)	0.036 ppb	3,657 cps	2.9 %
169Tm (KED)	0.005 ppb	1,397 cps	1.6 %
174Yb (KED)	0.030 ppb	3,169 cps	2.7 %
175Lu (KED)	-0.086 ppb	22,003 cps	1.2 %
205Tl (KED)	0.007 ppb	1,383 cps	1.5 %
208Pb (KED)	0.578 ppb	83,485 cps	2.5 %
209Bi (KED)	97.970 %	3,489,419 cps	0.7 %
232Th (KED)	0.187 ppb	50,887 cps	1.2 %
238U (KED)	0.036 ppb	11,711 cps	3.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 12

Analysis name: 80060jian

Analysis started at: 10/28/2021 3:29:45 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.475 %	3.7 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	3.137 ppb	17.2 %
24Mg (KED)	103.837 ppb	3.2 %
27Al (KED)	135.836 ppb	1.0 %
45Sc (KED)	102.061 %	1.4 %
51V (KED)	0.257 ppb	3.1 %
52Cr (KED)	0.924 ppb	1.2 %
55Mn (KED)	4.200 ppb	1.5 %
56Fe (KED)	146.318 ppb	1.1 %
58Ni (KED)	0.841 ppb	1.9 %
59Co (KED)	0.071 ppb	5.6 %
63Cu (KED)	2.057 ppb	0.7 %
64Zn (KED)	59.164 ppb	1.5 %
69Ga (KED)	0.552 ppb	5.3 %
75As (KED)	0.102 ppb	10.9 %
80Se (KED)	0.008 ppb	577.9 %
85Rb (KED)	0.843 ppb	2.6 %
88Sr (KED)	1.351 ppb	0.7 %
89Y (KED)	99.922 %	1.9 %
107Ag (KED)	0.026 ppb	7.2 %
114Cd (KED)	0.019 ppb	6.6 %
115In (KED)	99.210 %	1.1 %
133Cs (KED)	0.026 ppb	8.6 %
138Ba (KED)	1.828 ppb	1.7 %
139La (KED)	0.124 ppb	2.1 %
140Ce (KED)	0.280 ppb	2.0 %
141Pr (KED)	0.031 ppb	0.8 %
142Nd (KED)	0.167 ppb	2.8 %
152Sm (KED)	0.024 ppb	6.0 %
153Eu (KED)	0.005 ppb	8.6 %
158Gd (KED)	0.019 ppb	1.0 %
159Tb (KED)	102.614 %	0.7 %
164Dy (KED)	0.013 ppb	9.0 %
166Er (KED)	0.006 ppb	4.6 %
169Tm (KED)	0.001 ppb	14.3 %
174Yb (KED)	0.005 ppb	5.1 %
175Lu (KED)	-0.091 ppb	0.8 %
205Tl (KED)	0.004 ppb	7.3 %
208Pb (KED)	0.294 ppb	1.3 %
209Bi (KED)	97.710 %	1.1 %
232Th (KED)	0.039 ppb	0.4 %
238U (KED)	0.009 ppb	6.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.475 %	3,292 cps	3.7 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	3.137 ppb	851 cps	3.4 %
24Mg (KED)	103.837 ppb	64,884 cps	1.1 %
27Al (KED)	135.836 ppb	20,121 cps	1.8 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.061 %	53,171 cps	1.4 %
51V (KED)	0.257 ppb	2,420 cps	2.2 %
52Cr (KED)	0.924 ppb	13,660 cps	0.8 %
55Mn (KED)	4.200 ppb	31,026 cps	0.6 %
56Fe (KED)	146.318 ppb	1,965,621 cps	1.0 %
58Ni (KED)	0.841 ppb	14,804 cps	1.3 %
59Co (KED)	0.071 ppb	2,066 cps	5.9 %
63Cu (KED)	2.057 ppb	44,069 cps	1.2 %
64Zn (KED)	59.164 ppb	266,923 cps	1.0 %
69Ga (KED)	0.552 ppb	3,848 cps	3.8 %
75As (KED)	0.102 ppb	154 cps	10.9 %
80Se (KED)	0.008 ppb	1,176 cps	1.7 %
85Rb (KED)	0.843 ppb	5,446 cps	1.4 %
88Sr (KED)	1.351 ppb	12,394 cps	2.2 %
89Y (KED)	99.922 %	480,664 cps	1.9 %
107Ag (KED)	0.026 ppb	1,516 cps	8.3 %
114Cd (KED)	0.019 ppb	366 cps	6.5 %
115In (KED)	99.210 %	845,282 cps	1.1 %
133Cs (KED)	0.026 ppb	796 cps	8.0 %
138Ba (KED)	1.828 ppb	81,689 cps	1.4 %
139La (KED)	0.124 ppb	11,827 cps	1.8 %
140Ce (KED)	0.280 ppb	35,738 cps	2.0 %
141Pr (KED)	0.031 ppb	4,116 cps	1.1 %
142Nd (KED)	0.167 ppb	8,909 cps	3.1 %
152Sm (KED)	0.024 ppb	1,167 cps	6.4 %
153Eu (KED)	0.005 ppb	450 cps	9.1 %
158Gd (KED)	0.019 ppb	1,262 cps	1.5 %
159Tb (KED)	102.614 %	4,862,543 cps	0.7 %
164Dy (KED)	0.013 ppb	1,006 cps	9.4 %
166Er (KED)	0.006 ppb	980 cps	2.7 %
169Tm (KED)	0.001 ppb	227 cps	14.2 %
174Yb (KED)	0.005 ppb	543 cps	4.3 %
175Lu (KED)	-0.091 ppb	20,882 cps	0.3 %
205Tl (KED)	0.004 ppb	788 cps	6.4 %
208Pb (KED)	0.294 ppb	44,265 cps	0.8 %
209Bi (KED)	97.710 %	3,480,162 cps	1.1 %
232Th (KED)	0.039 ppb	10,567 cps	0.7 %
238U (KED)	0.009 ppb	3,105 cps	6.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 13

Analysis name: 80176jian

Analysis started at: 10/28/2021 3:32:56 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.387 %	1.8 %
9Be (KED)	0.000 ppb	
11B (KED)	1.314 ppb	80.1 %
24Mg (KED)	89.241 ppb	1.9 %
27Al (KED)	128.236 ppb	1.2 %
45Sc (KED)	104.091 %	0.7 %
51V (KED)	0.259 ppb	2.0 %
52Cr (KED)	1.152 ppb	2.7 %
55Mn (KED)	4.703 ppb	2.8 %
56Fe (KED)	145.903 ppb	1.1 %
58Ni (KED)	0.856 ppb	1.2 %
59Co (KED)	0.073 ppb	1.7 %
63Cu (KED)	2.123 ppb	0.9 %
64Zn (KED)	53.203 ppb	1.5 %
69Ga (KED)	0.495 ppb	2.5 %
75As (KED)	0.118 ppb	20.3 %
80Se (KED)	0.016 ppb	1,287.2 %
85Rb (KED)	0.751 ppb	2.3 %
88Sr (KED)	1.129 ppb	1.9 %
89Y (KED)	104.170 %	0.8 %
107Ag (KED)	0.017 ppb	6.9 %
114Cd (KED)	0.019 ppb	5.0 %
115In (KED)	102.111 %	1.1 %
133Cs (KED)	0.026 ppb	5.4 %
138Ba (KED)	1.708 ppb	2.1 %
139La (KED)	0.135 ppb	3.0 %
140Ce (KED)	0.290 ppb	1.6 %
141Pr (KED)	0.032 ppb	3.5 %
142Nd (KED)	0.174 ppb	0.8 %
152Sm (KED)	0.024 ppb	1.8 %
153Eu (KED)	0.004 ppb	0.8 %
158Gd (KED)	0.019 ppb	7.6 %
159Tb (KED)	105.525 %	1.5 %
164Dy (KED)	0.013 ppb	5.5 %
166Er (KED)	0.005 ppb	8.8 %
169Tm (KED)	0.001 ppb	18.7 %
174Yb (KED)	0.006 ppb	11.7 %
175Lu (KED)	-0.096 ppb	2.2 %
205Tl (KED)	0.004 ppb	3.6 %
208Pb (KED)	0.305 ppb	5.0 %
209Bi (KED)	99.229 %	0.1 %
232Th (KED)	0.037 ppb	0.3 %
238U (KED)	0.009 ppb	3.2 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.387 %	3,258 cps	1.8 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	1.314 ppb	692 cps	12.9 %
24Mg (KED)	89.241 ppb	55,250 cps	1.3 %
27Al (KED)	128.236 ppb	19,376 cps	0.6 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.091 %	54,229 cps	0.7 %
51V (KED)	0.259 ppb	2,492 cps	2.7 %
52Cr (KED)	1.152 ppb	17,361 cps	2.0 %
55Mn (KED)	4.703 ppb	35,427 cps	2.1 %
56Fe (KED)	145.903 ppb	1,999,107 cps	0.7 %
58Ni (KED)	0.856 ppb	15,367 cps	1.9 %
59Co (KED)	0.073 ppb	2,178 cps	1.8 %
63Cu (KED)	2.123 ppb	47,342 cps	0.6 %
64Zn (KED)	53.203 ppb	250,470 cps	0.8 %
69Ga (KED)	0.495 ppb	3,604 cps	2.3 %
75As (KED)	0.118 ppb	183 cps	19.7 %
80Se (KED)	0.016 ppb	1,229 cps	6.7 %
85Rb (KED)	0.751 ppb	5,060 cps	1.8 %
88Sr (KED)	1.129 ppb	10,810 cps	1.1 %
89Y (KED)	104.170 %	501,102 cps	0.8 %
107Ag (KED)	0.017 ppb	1,043 cps	6.8 %
114Cd (KED)	0.019 ppb	371 cps	5.8 %
115In (KED)	102.111 %	869,995 cps	1.1 %
133Cs (KED)	0.026 ppb	832 cps	6.2 %
138Ba (KED)	1.708 ppb	78,498 cps	1.2 %
139La (KED)	0.135 ppb	13,219 cps	1.6 %
140Ce (KED)	0.290 ppb	38,070 cps	1.4 %
141Pr (KED)	0.032 ppb	4,329 cps	2.5 %
142Nd (KED)	0.174 ppb	9,549 cps	1.7 %
152Sm (KED)	0.024 ppb	1,188 cps	3.2 %
153Eu (KED)	0.004 ppb	459 cps	1.1 %
158Gd (KED)	0.019 ppb	1,305 cps	6.6 %
159Tb (KED)	105.525 %	5,000,446 cps	1.5 %
164Dy (KED)	0.013 ppb	1,018 cps	4.1 %
166Er (KED)	0.005 ppb	903 cps	4.1 %
169Tm (KED)	0.001 ppb	234 cps	19.2 %
174Yb (KED)	0.006 ppb	623 cps	10.3 %
175Lu (KED)	-0.096 ppb	20,539 cps	1.5 %
205Tl (KED)	0.004 ppb	768 cps	3.3 %
208Pb (KED)	0.305 ppb	46,507 cps	4.5 %
209Bi (KED)	99.229 %	3,534,265 cps	0.1 %
232Th (KED)	0.037 ppb	10,193 cps	0.3 %
238U (KED)	0.009 ppb	3,102 cps	3.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 14

Analysis name: 80066ti

Analysis started at: 10/28/2021 3:36:11 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.984 %	0.7 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	4.347 ppb	32.6 %
24Mg (KED)	111.167 ppb	1.0 %
27Al (KED)	175.080 ppb	2.0 %
45Sc (KED)	103.438 %	1.5 %
51V (KED)	0.353 ppb	2.0 %
52Cr (KED)	0.868 ppb	1.9 %
55Mn (KED)	5.916 ppb	1.4 %
56Fe (KED)	196.035 ppb	1.0 %
58Ni (KED)	1.082 ppb	2.6 %
59Co (KED)	0.100 ppb	5.5 %
63Cu (KED)	2.098 ppb	0.3 %
64Zn (KED)	52.119 ppb	0.8 %
69Ga (KED)	0.674 ppb	1.1 %
75As (KED)	0.136 ppb	14.1 %
80Se (KED)	-0.059 ppb	290.9 %
85Rb (KED)	0.856 ppb	0.2 %
88Sr (KED)	1.704 ppb	1.3 %
89Y (KED)	101.547 %	0.3 %
107Ag (KED)	0.021 ppb	4.9 %
114Cd (KED)	0.022 ppb	11.1 %
115In (KED)	99.988 %	1.3 %
133Cs (KED)	0.036 ppb	1.8 %
138Ba (KED)	2.226 ppb	2.5 %
139La (KED)	0.169 ppb	1.1 %
140Ce (KED)	0.380 ppb	1.5 %
141Pr (KED)	0.040 ppb	0.4 %
142Nd (KED)	0.231 ppb	4.2 %
152Sm (KED)	0.029 ppb	5.8 %
153Eu (KED)	0.006 ppb	5.1 %
158Gd (KED)	0.028 ppb	8.2 %
159Tb (KED)	104.697 %	2.0 %
164Dy (KED)	0.019 ppb	7.2 %
166Er (KED)	0.009 ppb	8.7 %
169Tm (KED)	0.001 ppb	10.7 %
174Yb (KED)	0.007 ppb	12.3 %
175Lu (KED)	-0.101 ppb	0.5 %
205Tl (KED)	0.004 ppb	7.9 %
208Pb (KED)	0.319 ppb	1.0 %
209Bi (KED)	97.439 %	0.7 %
232Th (KED)	0.048 ppb	1.3 %
238U (KED)	0.012 ppb	3.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.984 %	3,307 cps	0.7 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	4.347 ppb	958 cps	12.3 %
24Mg (KED)	111.167 ppb	69,836 cps	1.5 %
27Al (KED)	175.080 ppb	26,255 cps	1.0 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.438 %	53,888 cps	1.5 %
51V (KED)	0.353 ppb	3,370 cps	1.0 %
52Cr (KED)	0.868 ppb	13,005 cps	1.4 %
55Mn (KED)	5.916 ppb	44,274 cps	0.9 %
56Fe (KED)	196.035 ppb	2,668,289 cps	0.6 %
58Ni (KED)	1.082 ppb	19,226 cps	2.2 %
59Co (KED)	0.100 ppb	2,929 cps	6.1 %
63Cu (KED)	2.098 ppb	45,640 cps	0.2 %
64Zn (KED)	52.119 ppb	239,247 cps	0.7 %
69Ga (KED)	0.674 ppb	4,774 cps	1.1 %
75As (KED)	0.136 ppb	204 cps	13.6 %
80Se (KED)	-0.059 ppb	1,167 cps	6.5 %
85Rb (KED)	0.856 ppb	5,622 cps	0.3 %
88Sr (KED)	1.704 ppb	15,866 cps	1.6 %
89Y (KED)	101.547 %	488,485 cps	0.3 %
107Ag (KED)	0.021 ppb	1,241 cps	3.8 %
114Cd (KED)	0.022 ppb	406 cps	11.7 %
115In (KED)	99.988 %	851,910 cps	1.3 %
133Cs (KED)	0.036 ppb	1,126 cps	0.6 %
138Ba (KED)	2.226 ppb	101,295 cps	1.2 %
139La (KED)	0.169 ppb	16,348 cps	1.4 %
140Ce (KED)	0.380 ppb	49,384 cps	0.7 %
141Pr (KED)	0.040 ppb	5,482 cps	1.9 %
142Nd (KED)	0.231 ppb	12,557 cps	2.2 %
152Sm (KED)	0.029 ppb	1,461 cps	7.8 %
153Eu (KED)	0.006 ppb	629 cps	6.8 %
158Gd (KED)	0.028 ppb	1,859 cps	8.0 %
159Tb (KED)	104.697 %	4,961,256 cps	2.0 %
164Dy (KED)	0.019 ppb	1,426 cps	5.4 %
166Er (KED)	0.009 ppb	1,247 cps	5.6 %
169Tm (KED)	0.001 ppb	346 cps	12.0 %
174Yb (KED)	0.007 ppb	782 cps	11.6 %
175Lu (KED)	-0.101 ppb	19,538 cps	1.7 %
205Tl (KED)	0.004 ppb	831 cps	7.9 %
208Pb (KED)	0.319 ppb	47,571 cps	0.5 %
209Bi (KED)	97.439 %	3,470,497 cps	0.7 %
232Th (KED)	0.048 ppb	13,108 cps	1.9 %
238U (KED)	0.012 ppb	3,827 cps	3.6 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 15

Analysis name: 80160ti

Analysis started at: 10/28/2021 3:39:22 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.475 %	5.7 %
9Be (KED)	0.000 ppb	
11B (KED)	-2.682 ppb	17.4 %
24Mg (KED)	98.294 ppb	5.6 %
27Al (KED)	140.836 ppb	2.0 %
45Sc (KED)	105.878 %	1.0 %
51V (KED)	0.269 ppb	3.0 %
52Cr (KED)	0.830 ppb	0.9 %
55Mn (KED)	4.896 ppb	1.3 %
56Fe (KED)	164.080 ppb	1.2 %
58Ni (KED)	0.819 ppb	1.4 %
59Co (KED)	0.075 ppb	1.4 %
63Cu (KED)	2.123 ppb	2.5 %
64Zn (KED)	58.081 ppb	0.5 %
69Ga (KED)	0.594 ppb	3.5 %
75As (KED)	0.120 ppb	2.5 %
80Se (KED)	0.086 ppb	311.0 %
85Rb (KED)	0.857 ppb	2.5 %
88Sr (KED)	1.232 ppb	2.1 %
89Y (KED)	101.729 %	1.2 %
107Ag (KED)	0.032 ppb	7.5 %
114Cd (KED)	0.020 ppb	5.7 %
115In (KED)	101.572 %	1.0 %
133Cs (KED)	0.028 ppb	4.8 %
138Ba (KED)	1.904 ppb	1.0 %
139La (KED)	0.151 ppb	0.7 %
140Ce (KED)	0.323 ppb	1.8 %
141Pr (KED)	0.033 ppb	2.7 %
142Nd (KED)	0.200 ppb	1.9 %
152Sm (KED)	0.025 ppb	1.2 %
153Eu (KED)	0.004 ppb	6.9 %
158Gd (KED)	0.021 ppb	4.2 %
159Tb (KED)	104.357 %	0.5 %
164Dy (KED)	0.015 ppb	1.8 %
166Er (KED)	0.006 ppb	24.6 %
169Tm (KED)	0.001 ppb	6.3 %
174Yb (KED)	0.006 ppb	0.6 %
175Lu (KED)	-0.101 ppb	3.8 %
205Tl (KED)	0.004 ppb	3.9 %
208Pb (KED)	0.281 ppb	1.4 %
209Bi (KED)	97.830 %	0.6 %
232Th (KED)	0.047 ppb	0.4 %
238U (KED)	0.010 ppb	3.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.475 %	3,292 cps	5.7 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-2.682 ppb	363 cps	7.5 %
24Mg (KED)	98.294 ppb	61,345 cps	0.3 %
27Al (KED)	140.836 ppb	21,635 cps	0.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.878 %	55,159 cps	1.0 %
51V (KED)	0.269 ppb	2,629 cps	2.0 %
52Cr (KED)	0.830 ppb	12,730 cps	0.6 %
55Mn (KED)	4.896 ppb	37,516 cps	0.9 %
56Fe (KED)	164.080 ppb	2,286,388 cps	0.2 %
58Ni (KED)	0.819 ppb	14,960 cps	1.2 %
59Co (KED)	0.075 ppb	2,254 cps	2.4 %
63Cu (KED)	2.123 ppb	46,238 cps	1.3 %
64Zn (KED)	58.081 ppb	266,851 cps	0.8 %
69Ga (KED)	0.594 ppb	4,214 cps	3.4 %
75As (KED)	0.120 ppb	182 cps	2.8 %
80Se (KED)	0.086 ppb	1,230 cps	9.0 %
85Rb (KED)	0.857 ppb	5,639 cps	3.5 %
88Sr (KED)	1.232 ppb	11,513 cps	1.5 %
89Y (KED)	101.729 %	489,361 cps	1.2 %
107Ag (KED)	0.032 ppb	1,897 cps	6.9 %
114Cd (KED)	0.020 ppb	384 cps	4.9 %
115In (KED)	101.572 %	865,402 cps	1.0 %
133Cs (KED)	0.028 ppb	897 cps	4.0 %
138Ba (KED)	1.904 ppb	86,473 cps	1.1 %
139La (KED)	0.151 ppb	14,557 cps	0.8 %
140Ce (KED)	0.323 ppb	41,849 cps	2.3 %
141Pr (KED)	0.033 ppb	4,504 cps	3.2 %
142Nd (KED)	0.200 ppb	10,828 cps	1.8 %
152Sm (KED)	0.025 ppb	1,219 cps	1.6 %
153Eu (KED)	0.004 ppb	453 cps	7.2 %
158Gd (KED)	0.021 ppb	1,429 cps	4.5 %
159Tb (KED)	104.357 %	4,945,143 cps	0.5 %
164Dy (KED)	0.015 ppb	1,132 cps	2.0 %
166Er (KED)	0.006 ppb	1,022 cps	12.9 %
169Tm (KED)	0.001 ppb	301 cps	6.1 %
174Yb (KED)	0.006 ppb	629 cps	0.8 %
175Lu (KED)	-0.101 ppb	19,369 cps	3.6 %
205Tl (KED)	0.004 ppb	734 cps	4.2 %
208Pb (KED)	0.281 ppb	42,595 cps	1.4 %
209Bi (KED)	97.830 %	3,484,413 cps	0.6 %
232Th (KED)	0.047 ppb	12,770 cps	0.9 %
238U (KED)	0.010 ppb	3,360 cps	3.5 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 16

Analysis name: 80030jian

Analysis started at: 10/28/2021 3:42:34 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.673 %	2.2 %
9Be (KED)	0.014 ppb	173.2 %
11B (KED)	9.077 ppb	13.1 %
24Mg (KED)	87.435 ppb	2.6 %
27Al (KED)	125.947 ppb	1.3 %
45Sc (KED)	105.563 %	0.3 %
51V (KED)	0.245 ppb	4.8 %
52Cr (KED)	0.804 ppb	0.3 %
55Mn (KED)	4.070 ppb	1.5 %
56Fe (KED)	147.331 ppb	1.1 %
58Ni (KED)	0.830 ppb	2.1 %
59Co (KED)	0.069 ppb	2.6 %
63Cu (KED)	2.041 ppb	1.4 %
64Zn (KED)	55.620 ppb	0.9 %
69Ga (KED)	0.477 ppb	1.4 %
75As (KED)	0.098 ppb	16.5 %
80Se (KED)	0.190 ppb	59.1 %
85Rb (KED)	0.719 ppb	3.1 %
88Sr (KED)	1.087 ppb	0.6 %
89Y (KED)	103.550 %	0.6 %
107Ag (KED)	0.034 ppb	3.2 %
114Cd (KED)	0.014 ppb	6.7 %
115In (KED)	101.318 %	1.0 %
133Cs (KED)	0.026 ppb	3.3 %
138Ba (KED)	1.595 ppb	1.9 %
139La (KED)	0.136 ppb	4.1 %
140Ce (KED)	0.355 ppb	1.3 %
141Pr (KED)	0.031 ppb	2.5 %
142Nd (KED)	0.192 ppb	1.9 %
152Sm (KED)	0.023 ppb	2.9 %
153Eu (KED)	0.004 ppb	4.0 %
158Gd (KED)	0.020 ppb	9.0 %
159Tb (KED)	103.319 %	1.4 %
164Dy (KED)	0.013 ppb	0.9 %
166Er (KED)	0.006 ppb	5.5 %
169Tm (KED)	0.001 ppb	5.5 %
174Yb (KED)	0.005 ppb	6.3 %
175Lu (KED)	-0.105 ppb	2.0 %
205Tl (KED)	0.003 ppb	9.7 %
208Pb (KED)	0.263 ppb	0.1 %
209Bi (KED)	97.704 %	0.8 %
232Th (KED)	0.040 ppb	0.4 %
238U (KED)	0.009 ppb	2.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.673 %	3,328 cps	2.2 %
9Be (KED)	0.014 ppb	2 cps	173.2 %
11B (KED)	9.077 ppb	1,363 cps	5.4 %
24Mg (KED)	87.435 ppb	55,291 cps	1.4 %
27Al (KED)	125.947 ppb	19,302 cps	1.1 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.563 %	54,995 cps	0.3 %
51V (KED)	0.245 ppb	2,387 cps	4.5 %
52Cr (KED)	0.804 ppb	12,307 cps	0.3 %
55Mn (KED)	4.070 ppb	31,101 cps	1.2 %
56Fe (KED)	147.331 ppb	2,047,262 cps	1.0 %
58Ni (KED)	0.830 ppb	15,112 cps	2.2 %
59Co (KED)	0.069 ppb	2,070 cps	2.8 %
63Cu (KED)	2.041 ppb	45,341 cps	1.7 %
64Zn (KED)	55.620 ppb	260,206 cps	0.7 %
69Ga (KED)	0.477 ppb	3,457 cps	1.7 %
75As (KED)	0.098 ppb	153 cps	15.2 %
80Se (KED)	0.190 ppb	1,298 cps	4.2 %
85Rb (KED)	0.719 ppb	4,815 cps	2.9 %
88Sr (KED)	1.087 ppb	10,349 cps	0.4 %
89Y (KED)	103.550 %	498,117 cps	0.6 %
107Ag (KED)	0.034 ppb	2,030 cps	2.1 %
114Cd (KED)	0.014 ppb	278 cps	7.3 %
115In (KED)	101.318 %	863,239 cps	1.0 %
133Cs (KED)	0.026 ppb	831 cps	2.2 %
138Ba (KED)	1.595 ppb	71,813 cps	0.8 %
139La (KED)	0.136 ppb	13,049 cps	2.7 %
140Ce (KED)	0.355 ppb	45,591 cps	0.7 %
141Pr (KED)	0.031 ppb	4,202 cps	1.5 %
142Nd (KED)	0.192 ppb	10,315 cps	1.7 %
152Sm (KED)	0.023 ppb	1,133 cps	1.8 %
153Eu (KED)	0.004 ppb	434 cps	4.7 %
158Gd (KED)	0.020 ppb	1,313 cps	10.0 %
159Tb (KED)	103.319 %	4,895,945 cps	1.4 %
164Dy (KED)	0.013 ppb	1,002 cps	2.2 %
166Er (KED)	0.006 ppb	1,022 cps	2.3 %
169Tm (KED)	0.001 ppb	289 cps	4.1 %
174Yb (KED)	0.005 ppb	566 cps	5.4 %
175Lu (KED)	-0.105 ppb	18,596 cps	2.4 %
205Tl (KED)	0.003 ppb	644 cps	9.5 %
208Pb (KED)	0.263 ppb	40,012 cps	0.9 %
209Bi (KED)	97.704 %	3,479,955 cps	0.8 %
232Th (KED)	0.040 ppb	10,848 cps	0.4 %
238U (KED)	0.009 ppb	2,978 cps	3.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 17

Analysis name: 80031jian

Analysis started at: 10/28/2021 3:45:43 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	113.028 %	2.5 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	2.261 ppb	32.1 %
24Mg (KED)	79.262 ppb	3.0 %
27Al (KED)	144.243 ppb	1.2 %
45Sc (KED)	106.392 %	1.1 %
51V (KED)	0.289 ppb	5.1 %
52Cr (KED)	0.673 ppb	1.4 %
55Mn (KED)	5.809 ppb	2.1 %
56Fe (KED)	143.810 ppb	1.5 %
58Ni (KED)	0.849 ppb	1.5 %
59Co (KED)	0.080 ppb	2.5 %
63Cu (KED)	2.187 ppb	1.9 %
64Zn (KED)	53.313 ppb	1.9 %
69Ga (KED)	0.579 ppb	0.4 %
75As (KED)	0.103 ppb	10.8 %
80Se (KED)	0.226 ppb	121.8 %
85Rb (KED)	0.442 ppb	4.7 %
88Sr (KED)	1.348 ppb	0.7 %
89Y (KED)	103.147 %	1.8 %
107Ag (KED)	0.048 ppb	4.9 %
114Cd (KED)	0.025 ppb	7.1 %
115In (KED)	102.391 %	1.6 %
133Cs (KED)	0.028 ppb	3.8 %
138Ba (KED)	1.925 ppb	2.9 %
139La (KED)	0.131 ppb	1.0 %
140Ce (KED)	0.296 ppb	2.2 %
141Pr (KED)	0.030 ppb	2.6 %
142Nd (KED)	0.173 ppb	1.5 %
152Sm (KED)	0.023 ppb	8.1 %
153Eu (KED)	0.004 ppb	6.2 %
158Gd (KED)	0.020 ppb	2.7 %
159Tb (KED)	104.454 %	0.8 %
164Dy (KED)	0.013 ppb	11.8 %
166Er (KED)	0.005 ppb	18.7 %
169Tm (KED)	0.001 ppb	19.6 %
174Yb (KED)	0.005 ppb	6.6 %
175Lu (KED)	-0.105 ppb	1.5 %
205Tl (KED)	0.003 ppb	1.3 %
208Pb (KED)	0.275 ppb	1.4 %
209Bi (KED)	98.969 %	1.2 %
232Th (KED)	0.035 ppb	1.5 %
238U (KED)	0.008 ppb	1.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	113.028 %	3,462 cps	2.5 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	2.261 ppb	818 cps	5.3 %
24Mg (KED)	79.262 ppb	52,138 cps	1.1 %
27Al (KED)	144.243 ppb	22,265 cps	0.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.392 %	55,427 cps	1.1 %
51V (KED)	0.289 ppb	2,844 cps	4.2 %
52Cr (KED)	0.673 ppb	10,385 cps	0.6 %
55Mn (KED)	5.809 ppb	44,712 cps	0.9 %
56Fe (KED)	143.810 ppb	2,014,097 cps	1.9 %
58Ni (KED)	0.849 ppb	15,575 cps	0.5 %
59Co (KED)	0.080 ppb	2,412 cps	2.0 %
63Cu (KED)	2.187 ppb	48,223 cps	1.0 %
64Zn (KED)	53.313 ppb	248,481 cps	0.3 %
69Ga (KED)	0.579 ppb	4,166 cps	1.4 %
75As (KED)	0.103 ppb	160 cps	10.4 %
80Se (KED)	0.226 ppb	1,307 cps	7.4 %
85Rb (KED)	0.442 ppb	2,951 cps	3.1 %
88Sr (KED)	1.348 ppb	12,761 cps	2.0 %
89Y (KED)	103.147 %	496,179 cps	1.8 %
107Ag (KED)	0.048 ppb	2,868 cps	3.3 %
114Cd (KED)	0.025 ppb	478 cps	8.4 %
115In (KED)	102.391 %	872,386 cps	1.6 %
133Cs (KED)	0.028 ppb	881 cps	3.5 %
138Ba (KED)	1.925 ppb	87,520 cps	2.1 %
139La (KED)	0.131 ppb	12,722 cps	0.8 %
140Ce (KED)	0.296 ppb	38,436 cps	2.2 %
141Pr (KED)	0.030 ppb	4,090 cps	2.6 %
142Nd (KED)	0.173 ppb	9,368 cps	1.2 %
152Sm (KED)	0.023 ppb	1,133 cps	8.8 %
153Eu (KED)	0.004 ppb	429 cps	6.6 %
158Gd (KED)	0.020 ppb	1,340 cps	3.5 %
159Tb (KED)	104.454 %	4,949,736 cps	0.8 %
164Dy (KED)	0.013 ppb	979 cps	11.6 %
166Er (KED)	0.005 ppb	903 cps	8.9 %
169Tm (KED)	0.001 ppb	253 cps	18.6 %
174Yb (KED)	0.005 ppb	522 cps	6.7 %
175Lu (KED)	-0.105 ppb	18,705 cps	1.6 %
205Tl (KED)	0.003 ppb	684 cps	2.4 %
208Pb (KED)	0.275 ppb	42,217 cps	0.3 %
209Bi (KED)	98.969 %	3,524,998 cps	1.2 %
232Th (KED)	0.035 ppb	9,779 cps	1.0 %
238U (KED)	0.008 ppb	2,664 cps	1.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 18

Analysis name: 80098ti

Analysis started at: 10/28/2021 3:48:52 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.266 %	3.4 %
9Be (KED)	0.014 ppb	86.7 %
11B (KED)	13.382 ppb	8.9 %
24Mg (KED)	88.717 ppb	3.8 %
27Al (KED)	139.736 ppb	3.7 %
45Sc (KED)	105.006 %	1.6 %
51V (KED)	0.288 ppb	4.2 %
52Cr (KED)	1.301 ppb	0.8 %
55Mn (KED)	8.009 ppb	1.6 %
56Fe (KED)	144.770 ppb	2.1 %
58Ni (KED)	0.898 ppb	0.1 %
59Co (KED)	0.105 ppb	1.7 %
63Cu (KED)	2.158 ppb	1.4 %
64Zn (KED)	51.332 ppb	1.8 %
69Ga (KED)	0.691 ppb	2.0 %
75As (KED)	0.178 ppb	2.3 %
80Se (KED)	0.053 ppb	38.8 %
85Rb (KED)	0.298 ppb	3.3 %
88Sr (KED)	1.841 ppb	1.6 %
89Y (KED)	103.445 %	0.9 %
107Ag (KED)	0.042 ppb	2.4 %
114Cd (KED)	0.037 ppb	11.5 %
115In (KED)	101.410 %	0.5 %
133Cs (KED)	0.025 ppb	3.8 %
138Ba (KED)	2.338 ppb	2.3 %
139La (KED)	0.142 ppb	1.2 %
140Ce (KED)	0.333 ppb	1.2 %
141Pr (KED)	0.034 ppb	6.5 %
142Nd (KED)	0.201 ppb	0.8 %
152Sm (KED)	0.025 ppb	5.2 %
153Eu (KED)	0.006 ppb	10.6 %
158Gd (KED)	0.023 ppb	2.7 %
159Tb (KED)	104.610 %	0.6 %
164Dy (KED)	0.015 ppb	2.3 %
166Er (KED)	0.007 ppb	5.2 %
169Tm (KED)	0.001 ppb	14.3 %
174Yb (KED)	0.006 ppb	1.3 %
175Lu (KED)	-0.103 ppb	2.6 %
205Tl (KED)	0.003 ppb	8.8 %
208Pb (KED)	0.380 ppb	1.4 %
209Bi (KED)	99.576 %	1.7 %
232Th (KED)	0.036 ppb	2.0 %
238U (KED)	0.010 ppb	4.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.266 %	3,438 cps	3.4 %
9Be (KED)	0.014 ppb	2 cps	86.6 %
11B (KED)	13.382 ppb	1,785 cps	3.3 %
24Mg (KED)	88.717 ppb	57,935 cps	2.6 %
27Al (KED)	139.736 ppb	21,285 cps	2.1 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.006 %	54,705 cps	1.6 %
51V (KED)	0.288 ppb	2,790 cps	2.7 %
52Cr (KED)	1.301 ppb	19,779 cps	0.9 %
55Mn (KED)	8.009 ppb	60,823 cps	0.4 %
56Fe (KED)	144.770 ppb	2,000,723 cps	0.9 %
58Ni (KED)	0.898 ppb	16,253 cps	1.7 %
59Co (KED)	0.105 ppb	3,129 cps	2.6 %
63Cu (KED)	2.158 ppb	47,760 cps	0.6 %
64Zn (KED)	51.332 ppb	240,055 cps	1.4 %
69Ga (KED)	0.691 ppb	4,982 cps	1.1 %
75As (KED)	0.178 ppb	269 cps	2.9 %
80Se (KED)	0.053 ppb	1,237 cps	1.4 %
85Rb (KED)	0.298 ppb	2,005 cps	2.6 %
88Sr (KED)	1.841 ppb	17,452 cps	2.5 %
89Y (KED)	103.445 %	497,615 cps	0.9 %
107Ag (KED)	0.042 ppb	2,461 cps	1.9 %
114Cd (KED)	0.037 ppb	702 cps	11.5 %
115In (KED)	101.410 %	864,028 cps	0.5 %
133Cs (KED)	0.025 ppb	806 cps	3.6 %
138Ba (KED)	2.338 ppb	106,286 cps	1.8 %
139La (KED)	0.142 ppb	13,811 cps	1.2 %
140Ce (KED)	0.333 ppb	43,346 cps	1.1 %
141Pr (KED)	0.034 ppb	4,570 cps	5.9 %
142Nd (KED)	0.201 ppb	10,916 cps	1.2 %
152Sm (KED)	0.025 ppb	1,259 cps	4.7 %
153Eu (KED)	0.006 ppb	560 cps	9.8 %
158Gd (KED)	0.023 ppb	1,527 cps	2.4 %
159Tb (KED)	104.610 %	4,957,111 cps	0.6 %
164Dy (KED)	0.015 ppb	1,111 cps	1.7 %
166Er (KED)	0.007 ppb	1,050 cps	2.8 %
169Tm (KED)	0.001 ppb	296 cps	13.2 %
174Yb (KED)	0.006 ppb	628 cps	1.7 %
175Lu (KED)	-0.103 ppb	19,070 cps	2.4 %
205Tl (KED)	0.003 ppb	678 cps	9.3 %
208Pb (KED)	0.380 ppb	57,111 cps	0.6 %
209Bi (KED)	99.576 %	3,546,609 cps	1.7 %
232Th (KED)	0.036 ppb	10,187 cps	0.3 %
238U (KED)	0.010 ppb	3,194 cps	2.8 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 19

Analysis name: 80131jian

Analysis started at: 10/28/2021 3:52:17 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	104.863 %	2.7 %
9Be (KED)	0.008 ppb	173.2 %
11B (KED)	1.761 ppb	18.0 %
24Mg (KED)	89.327 ppb	1.4 %
27Al (KED)	139.585 ppb	1.6 %
45Sc (KED)	106.627 %	0.6 %
51V (KED)	0.244 ppb	3.1 %
52Cr (KED)	1.109 ppb	5.2 %
55Mn (KED)	3.663 ppb	2.1 %
56Fe (KED)	129.196 ppb	1.2 %
58Ni (KED)	0.985 ppb	0.9 %
59Co (KED)	0.091 ppb	1.9 %
63Cu (KED)	2.170 ppb	1.4 %
64Zn (KED)	51.231 ppb	0.6 %
69Ga (KED)	0.479 ppb	0.6 %
75As (KED)	0.132 ppb	27.8 %
80Se (KED)	0.161 ppb	49.7 %
85Rb (KED)	0.576 ppb	4.0 %
88Sr (KED)	2.047 ppb	2.6 %
89Y (KED)	103.426 %	1.4 %
107Ag (KED)	0.052 ppb	0.4 %
114Cd (KED)	0.016 ppb	10.2 %
115In (KED)	103.229 %	1.4 %
133Cs (KED)	0.023 ppb	5.9 %
138Ba (KED)	1.652 ppb	2.6 %
139La (KED)	0.130 ppb	1.6 %
140Ce (KED)	0.319 ppb	1.7 %
141Pr (KED)	0.032 ppb	2.6 %
142Nd (KED)	0.188 ppb	1.1 %
152Sm (KED)	0.022 ppb	3.6 %
153Eu (KED)	0.004 ppb	17.0 %
158Gd (KED)	0.020 ppb	7.0 %
159Tb (KED)	105.783 %	0.4 %
164Dy (KED)	0.015 ppb	5.5 %
166Er (KED)	0.011 ppb	86.6 %
169Tm (KED)	0.001 ppb	10.7 %
174Yb (KED)	0.005 ppb	6.9 %
175Lu (KED)	-0.108 ppb	4.7 %
205Tl (KED)	0.004 ppb	6.1 %
208Pb (KED)	0.300 ppb	1.7 %
209Bi (KED)	99.894 %	1.2 %
232Th (KED)	0.040 ppb	0.7 %
238U (KED)	0.011 ppb	3.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	104.863 %	3,212 cps	2.7 %
9Be (KED)	0.008 ppb	1 cps	173.2 %
11B (KED)	1.761 ppb	719 cps	5.0 %
24Mg (KED)	89.327 ppb	54,508 cps	1.3 %
27Al (KED)	139.585 ppb	21,599 cps	1.7 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.627 %	55,550 cps	0.6 %
51V (KED)	0.244 ppb	2,402 cps	3.4 %
52Cr (KED)	1.109 ppb	17,127 cps	4.9 %
55Mn (KED)	3.663 ppb	28,282 cps	1.7 %
56Fe (KED)	129.196 ppb	1,813,653 cps	1.3 %
58Ni (KED)	0.985 ppb	18,066 cps	0.9 %
59Co (KED)	0.091 ppb	2,755 cps	2.1 %
63Cu (KED)	2.170 ppb	48,003 cps	0.3 %
64Zn (KED)	51.231 ppb	239,548 cps	1.0 %
69Ga (KED)	0.479 ppb	3,467 cps	1.9 %
75As (KED)	0.132 ppb	203 cps	26.4 %
80Se (KED)	0.161 ppb	1,283 cps	3.4 %
85Rb (KED)	0.576 ppb	3,856 cps	4.1 %
88Sr (KED)	2.047 ppb	19,392 cps	3.1 %
89Y (KED)	103.426 %	497,522 cps	1.4 %
107Ag (KED)	0.052 ppb	3,132 cps	1.8 %
114Cd (KED)	0.016 ppb	319 cps	10.5 %
115In (KED)	103.229 %	879,521 cps	1.4 %
133Cs (KED)	0.023 ppb	750 cps	4.4 %
138Ba (KED)	1.652 ppb	76,166 cps	3.1 %
139La (KED)	0.130 ppb	12,777 cps	1.6 %
140Ce (KED)	0.319 ppb	41,895 cps	2.1 %
141Pr (KED)	0.032 ppb	4,343 cps	2.4 %
142Nd (KED)	0.188 ppb	10,309 cps	1.0 %
152Sm (KED)	0.022 ppb	1,080 cps	3.3 %
153Eu (KED)	0.004 ppb	444 cps	16.9 %
158Gd (KED)	0.020 ppb	1,376 cps	7.4 %
159Tb (KED)	105.783 %	5,012,713 cps	0.4 %
164Dy (KED)	0.015 ppb	1,147 cps	5.0 %
166Er (KED)	0.011 ppb	1,491 cps	58.9 %
169Tm (KED)	0.001 ppb	288 cps	10.8 %
174Yb (KED)	0.005 ppb	584 cps	6.3 %
175Lu (KED)	-0.108 ppb	18,505 cps	4.8 %
205Tl (KED)	0.004 ppb	764 cps	6.4 %
208Pb (KED)	0.300 ppb	46,191 cps	0.8 %
209Bi (KED)	99.894 %	3,557,933 cps	1.2 %
232Th (KED)	0.040 ppb	11,272 cps	1.3 %
238U (KED)	0.011 ppb	3,741 cps	2.6 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 20

Analysis name: 80223jian

Analysis started at: 10/28/2021 3:55:33 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.347 %	1.8 %
9Be (KED)	0.030 ppb	42.6 %
11B (KED)	25.998 ppb	3.2 %
24Mg (KED)	99.383 ppb	3.2 %
27Al (KED)	105.602 ppb	2.1 %
45Sc (KED)	106.390 %	1.1 %
51V (KED)	0.197 ppb	5.3 %
52Cr (KED)	0.605 ppb	1.4 %
55Mn (KED)	3.624 ppb	2.1 %
56Fe (KED)	112.393 ppb	1.6 %
58Ni (KED)	0.766 ppb	1.7 %
59Co (KED)	0.053 ppb	5.5 %
63Cu (KED)	2.029 ppb	1.6 %
64Zn (KED)	50.148 ppb	1.3 %
69Ga (KED)	0.425 ppb	2.9 %
75As (KED)	0.096 ppb	20.5 %
80Se (KED)	0.370 ppb	46.8 %
85Rb (KED)	0.959 ppb	0.2 %
88Sr (KED)	1.066 ppb	1.2 %
89Y (KED)	102.872 %	2.3 %
107Ag (KED)	0.024 ppb	4.5 %
114Cd (KED)	0.016 ppb	11.1 %
115In (KED)	102.023 %	1.0 %
133Cs (KED)	0.021 ppb	3.2 %
138Ba (KED)	1.380 ppb	0.1 %
139La (KED)	0.102 ppb	3.6 %
140Ce (KED)	0.235 ppb	4.3 %
141Pr (KED)	0.024 ppb	6.8 %
142Nd (KED)	0.138 ppb	2.9 %
152Sm (KED)	0.017 ppb	6.3 %
153Eu (KED)	0.003 ppb	6.1 %
158Gd (KED)	0.015 ppb	4.5 %
159Tb (KED)	105.184 %	1.0 %
164Dy (KED)	0.010 ppb	8.1 %
166Er (KED)	0.004 ppb	17.9 %
169Tm (KED)	0.001 ppb	10.8 %
174Yb (KED)	0.004 ppb	17.2 %
175Lu (KED)	-0.104 ppb	1.3 %
205Tl (KED)	0.003 ppb	13.4 %
208Pb (KED)	0.185 ppb	2.7 %
209Bi (KED)	99.165 %	0.5 %
232Th (KED)	0.026 ppb	0.8 %
238U (KED)	0.007 ppb	3.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.347 %	3,318 cps	1.8 %
9Be (KED)	0.030 ppb	4 cps	43.3 %
11B (KED)	25.998 ppb	2,789 cps	1.0 %
24Mg (KED)	99.383 ppb	62,642 cps	2.5 %
27Al (KED)	105.602 ppb	16,326 cps	3.1 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.390 %	55,426 cps	1.1 %
51V (KED)	0.197 ppb	1,938 cps	6.4 %
52Cr (KED)	0.605 ppb	9,340 cps	2.2 %
55Mn (KED)	3.624 ppb	27,917 cps	2.9 %
56Fe (KED)	112.393 ppb	1,574,726 cps	2.8 %
58Ni (KED)	0.766 ppb	14,076 cps	1.9 %
59Co (KED)	0.053 ppb	1,618 cps	6.0 %
63Cu (KED)	2.029 ppb	44,773 cps	1.3 %
64Zn (KED)	50.148 ppb	233,237 cps	1.1 %
69Ga (KED)	0.425 ppb	3,059 cps	4.1 %
75As (KED)	0.096 ppb	150 cps	17.4 %
80Se (KED)	0.370 ppb	1,368 cps	7.7 %
85Rb (KED)	0.959 ppb	6,379 cps	2.3 %
88Sr (KED)	1.066 ppb	10,085 cps	1.4 %
89Y (KED)	102.872 %	494,858 cps	2.3 %
107Ag (KED)	0.024 ppb	1,431 cps	5.2 %
114Cd (KED)	0.016 ppb	312 cps	10.7 %
115In (KED)	102.023 %	869,247 cps	1.0 %
133Cs (KED)	0.021 ppb	684 cps	2.5 %
138Ba (KED)	1.380 ppb	63,377 cps	1.0 %
139La (KED)	0.102 ppb	9,948 cps	2.6 %
140Ce (KED)	0.235 ppb	30,723 cps	3.4 %
141Pr (KED)	0.024 ppb	3,305 cps	5.8 %
142Nd (KED)	0.138 ppb	7,561 cps	3.2 %
152Sm (KED)	0.017 ppb	833 cps	6.8 %
153Eu (KED)	0.003 ppb	336 cps	6.5 %
158Gd (KED)	0.015 ppb	988 cps	3.6 %
159Tb (KED)	105.184 %	4,984,333 cps	1.0 %
164Dy (KED)	0.010 ppb	782 cps	8.6 %
166Er (KED)	0.004 ppb	858 cps	7.3 %
169Tm (KED)	0.001 ppb	219 cps	10.1 %
174Yb (KED)	0.004 ppb	483 cps	15.8 %
175Lu (KED)	-0.104 ppb	18,983 cps	0.5 %
205Tl (KED)	0.003 ppb	604 cps	11.9 %
208Pb (KED)	0.185 ppb	29,848 cps	1.9 %
209Bi (KED)	99.165 %	3,531,992 cps	0.5 %
232Th (KED)	0.026 ppb	7,203 cps	1.0 %
238U (KED)	0.007 ppb	2,224 cps	3.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 21

Analysis name: 80186jian

Analysis started at: 10/28/2021 3:58:40 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.084 %	1.0 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	8.726 ppb	4.3 %
24Mg (KED)	77.403 ppb	0.9 %
27Al (KED)	124.961 ppb	1.8 %
45Sc (KED)	107.827 %	1.4 %
51V (KED)	0.236 ppb	6.9 %
52Cr (KED)	1.187 ppb	2.4 %
55Mn (KED)	4.112 ppb	2.6 %
56Fe (KED)	128.288 ppb	1.1 %
58Ni (KED)	1.042 ppb	2.3 %
59Co (KED)	0.066 ppb	4.0 %
63Cu (KED)	2.247 ppb	2.5 %
64Zn (KED)	51.758 ppb	2.0 %
69Ga (KED)	0.494 ppb	0.3 %
75As (KED)	0.097 ppb	20.1 %
80Se (KED)	0.053 ppb	153.3 %
85Rb (KED)	0.591 ppb	4.8 %
88Sr (KED)	1.063 ppb	1.3 %
89Y (KED)	105.262 %	1.8 %
107Ag (KED)	0.136 ppb	3.1 %
114Cd (KED)	0.018 ppb	16.4 %
115In (KED)	103.347 %	1.8 %
133Cs (KED)	0.026 ppb	10.2 %
138Ba (KED)	1.699 ppb	0.7 %
139La (KED)	0.112 ppb	1.7 %
140Ce (KED)	0.253 ppb	0.6 %
141Pr (KED)	0.027 ppb	2.3 %
142Nd (KED)	0.155 ppb	1.0 %
152Sm (KED)	0.018 ppb	10.3 %
153Eu (KED)	0.004 ppb	6.3 %
158Gd (KED)	0.016 ppb	4.2 %
159Tb (KED)	103.957 %	1.3 %
164Dy (KED)	0.011 ppb	3.0 %
166Er (KED)	0.005 ppb	21.4 %
169Tm (KED)	0.001 ppb	11.9 %
174Yb (KED)	0.005 ppb	2.4 %
175Lu (KED)	-0.105 ppb	1.3 %
205Tl (KED)	0.003 ppb	5.3 %
208Pb (KED)	0.317 ppb	1.7 %
209Bi (KED)	99.189 %	1.3 %
232Th (KED)	0.029 ppb	0.7 %
238U (KED)	0.009 ppb	4.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.084 %	3,433 cps	1.0 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	8.726 ppb	1,377 cps	1.3 %
24Mg (KED)	77.403 ppb	50,514 cps	0.3 %
27Al (KED)	124.961 ppb	19,560 cps	1.1 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	107.827 %	56,175 cps	1.4 %
51V (KED)	0.236 ppb	2,347 cps	6.2 %
52Cr (KED)	1.187 ppb	18,520 cps	1.4 %
55Mn (KED)	4.112 ppb	32,090 cps	1.2 %
56Fe (KED)	128.288 ppb	1,821,014 cps	0.4 %
58Ni (KED)	1.042 ppb	19,310 cps	1.6 %
59Co (KED)	0.066 ppb	2,015 cps	4.8 %
63Cu (KED)	2.247 ppb	50,496 cps	1.0 %
64Zn (KED)	51.758 ppb	246,238 cps	0.4 %
69Ga (KED)	0.494 ppb	3,633 cps	1.5 %
75As (KED)	0.097 ppb	154 cps	17.3 %
80Se (KED)	0.053 ppb	1,259 cps	4.0 %
85Rb (KED)	0.591 ppb	4,032 cps	6.5 %
88Sr (KED)	1.063 ppb	10,291 cps	2.6 %
89Y (KED)	105.262 %	506,354 cps	1.8 %
107Ag (KED)	0.136 ppb	8,103 cps	2.1 %
114Cd (KED)	0.018 ppb	358 cps	14.0 %
115In (KED)	103.347 %	880,526 cps	1.8 %
133Cs (KED)	0.026 ppb	841 cps	10.4 %
138Ba (KED)	1.699 ppb	76,939 cps	1.7 %
139La (KED)	0.112 ppb	10,775 cps	1.4 %
140Ce (KED)	0.253 ppb	32,679 cps	1.8 %
141Pr (KED)	0.027 ppb	3,615 cps	3.3 %
142Nd (KED)	0.155 ppb	8,365 cps	0.5 %
152Sm (KED)	0.018 ppb	903 cps	10.4 %
153Eu (KED)	0.004 ppb	382 cps	4.8 %
158Gd (KED)	0.016 ppb	1,078 cps	3.0 %
159Tb (KED)	103.957 %	4,926,155 cps	1.3 %
164Dy (KED)	0.011 ppb	829 cps	1.8 %
166Er (KED)	0.005 ppb	902 cps	9.8 %
169Tm (KED)	0.001 ppb	230 cps	12.6 %
174Yb (KED)	0.005 ppb	526 cps	3.2 %
175Lu (KED)	-0.105 ppb	18,593 cps	2.6 %
205Tl (KED)	0.003 ppb	581 cps	3.7 %
208Pb (KED)	0.317 ppb	48,124 cps	1.3 %
209Bi (KED)	99.189 %	3,532,814 cps	1.3 %
232Th (KED)	0.029 ppb	7,975 cps	0.6 %
238U (KED)	0.009 ppb	2,943 cps	4.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 22

Analysis name: 80061jian

Analysis started at: 10/28/2021 4:01:47 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.161 %	1.5 %
9Be (KED)	0.000 ppb	
11B (KED)	5.198 ppb	17.3 %
24Mg (KED)	84.271 ppb	2.3 %
27Al (KED)	133.889 ppb	0.7 %
45Sc (KED)	108.050 %	1.8 %
51V (KED)	0.280 ppb	3.3 %
52Cr (KED)	0.643 ppb	3.6 %
55Mn (KED)	5.185 ppb	2.3 %
56Fe (KED)	159.918 ppb	1.7 %
58Ni (KED)	0.760 ppb	3.2 %
59Co (KED)	0.075 ppb	2.1 %
63Cu (KED)	2.586 ppb	3.1 %
64Zn (KED)	55.572 ppb	1.7 %
69Ga (KED)	0.529 ppb	4.5 %
75As (KED)	0.112 ppb	12.8 %
80Se (KED)	0.162 ppb	68.1 %
85Rb (KED)	0.495 ppb	0.8 %
88Sr (KED)	1.270 ppb	0.5 %
89Y (KED)	103.451 %	0.6 %
107Ag (KED)	0.037 ppb	6.2 %
114Cd (KED)	0.017 ppb	10.8 %
115In (KED)	101.763 %	1.4 %
133Cs (KED)	0.028 ppb	10.3 %
138Ba (KED)	1.769 ppb	2.6 %
139La (KED)	0.134 ppb	2.2 %
140Ce (KED)	0.301 ppb	1.6 %
141Pr (KED)	0.033 ppb	1.8 %
142Nd (KED)	0.184 ppb	2.2 %
152Sm (KED)	0.024 ppb	1.2 %
153Eu (KED)	0.005 ppb	9.7 %
158Gd (KED)	0.020 ppb	2.4 %
159Tb (KED)	104.788 %	0.6 %
164Dy (KED)	0.014 ppb	5.1 %
166Er (KED)	0.005 ppb	0.8 %
169Tm (KED)	0.001 ppb	4.2 %
174Yb (KED)	0.005 ppb	1.9 %
175Lu (KED)	-0.104 ppb	5.0 %
205Tl (KED)	0.003 ppb	0.8 %
208Pb (KED)	0.297 ppb	2.2 %
209Bi (KED)	98.674 %	0.4 %
232Th (KED)	0.037 ppb	1.5 %
238U (KED)	0.009 ppb	0.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.161 %	3,374 cps	1.5 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	5.198 ppb	1,050 cps	7.0 %
24Mg (KED)	84.271 ppb	54,031 cps	1.0 %
27Al (KED)	133.889 ppb	20,995 cps	1.2 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	108.050 %	56,291 cps	1.8 %
51V (KED)	0.280 ppb	2,793 cps	2.2 %
52Cr (KED)	0.643 ppb	10,072 cps	3.3 %
55Mn (KED)	5.185 ppb	40,536 cps	1.2 %
56Fe (KED)	159.918 ppb	2,273,869 cps	0.2 %
58Ni (KED)	0.760 ppb	14,184 cps	1.3 %
59Co (KED)	0.075 ppb	2,312 cps	2.4 %
63Cu (KED)	2.586 ppb	56,826 cps	2.7 %
64Zn (KED)	55.572 ppb	259,727 cps	1.1 %
69Ga (KED)	0.529 ppb	3,826 cps	4.5 %
75As (KED)	0.112 ppb	174 cps	11.7 %
80Se (KED)	0.162 ppb	1,285 cps	4.3 %
85Rb (KED)	0.495 ppb	3,317 cps	0.8 %
88Sr (KED)	1.270 ppb	12,065 cps	0.8 %
89Y (KED)	103.451 %	497,643 cps	0.6 %
107Ag (KED)	0.037 ppb	2,189 cps	5.8 %
114Cd (KED)	0.017 ppb	334 cps	9.0 %
115In (KED)	101.763 %	867,030 cps	1.4 %
133Cs (KED)	0.028 ppb	900 cps	9.3 %
138Ba (KED)	1.769 ppb	80,736 cps	2.0 %
139La (KED)	0.134 ppb	12,976 cps	2.7 %
140Ce (KED)	0.301 ppb	39,204 cps	1.3 %
141Pr (KED)	0.033 ppb	4,496 cps	2.0 %
142Nd (KED)	0.184 ppb	10,004 cps	2.1 %
152Sm (KED)	0.024 ppb	1,175 cps	1.0 %
153Eu (KED)	0.005 ppb	463 cps	10.2 %
158Gd (KED)	0.020 ppb	1,362 cps	2.7 %
159Tb (KED)	104.788 %	4,965,550 cps	0.6 %
164Dy (KED)	0.014 ppb	1,077 cps	4.6 %
166Er (KED)	0.005 ppb	947 cps	0.7 %
169Tm (KED)	0.001 ppb	283 cps	4.2 %
174Yb (KED)	0.005 ppb	593 cps	1.7 %
175Lu (KED)	-0.104 ppb	18,901 cps	4.6 %
205Tl (KED)	0.003 ppb	728 cps	1.2 %
208Pb (KED)	0.297 ppb	45,173 cps	1.7 %
209Bi (KED)	98.674 %	3,514,494 cps	0.4 %
232Th (KED)	0.037 ppb	10,103 cps	1.1 %
238U (KED)	0.009 ppb	3,046 cps	0.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 23

Analysis name: 80143jian

Analysis started at: 10/28/2021 4:04:58 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.201 %	6.7 %
9Be (KED)	0.023 ppb	97.4 %
11B (KED)	0.286 ppb	166.4 %
24Mg (KED)	87.604 ppb	7.0 %
27Al (KED)	141.458 ppb	1.0 %
45Sc (KED)	105.412 %	0.6 %
51V (KED)	0.260 ppb	3.3 %
52Cr (KED)	1.121 ppb	1.1 %
55Mn (KED)	5.067 ppb	1.7 %
56Fe (KED)	171.772 ppb	1.1 %
58Ni (KED)	0.969 ppb	0.8 %
59Co (KED)	0.073 ppb	2.4 %
63Cu (KED)	2.561 ppb	0.8 %
64Zn (KED)	47.860 ppb	0.5 %
69Ga (KED)	0.559 ppb	3.3 %
75As (KED)	0.120 ppb	16.1 %
80Se (KED)	0.192 ppb	53.5 %
85Rb (KED)	0.564 ppb	6.7 %
88Sr (KED)	1.170 ppb	1.2 %
89Y (KED)	103.760 %	0.3 %
107Ag (KED)	0.017 ppb	10.9 %
114Cd (KED)	0.016 ppb	14.5 %
115In (KED)	102.320 %	0.6 %
133Cs (KED)	0.027 ppb	9.5 %
138Ba (KED)	1.877 ppb	0.9 %
139La (KED)	0.139 ppb	1.4 %
140Ce (KED)	0.305 ppb	1.8 %
141Pr (KED)	0.032 ppb	2.6 %
142Nd (KED)	0.187 ppb	2.7 %
152Sm (KED)	0.024 ppb	4.6 %
153Eu (KED)	0.005 ppb	3.7 %
158Gd (KED)	0.021 ppb	0.9 %
159Tb (KED)	103.438 %	1.3 %
164Dy (KED)	0.014 ppb	1.8 %
166Er (KED)	0.006 ppb	11.7 %
169Tm (KED)	0.001 ppb	8.0 %
174Yb (KED)	0.005 ppb	3.0 %
175Lu (KED)	-0.109 ppb	1.4 %
205Tl (KED)	0.004 ppb	7.3 %
208Pb (KED)	0.310 ppb	0.2 %
209Bi (KED)	97.744 %	0.3 %
232Th (KED)	0.038 ppb	1.5 %
238U (KED)	0.009 ppb	0.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.201 %	3,314 cps	6.7 %
9Be (KED)	0.023 ppb	3 cps	100.0 %
11B (KED)	0.286 ppb	616 cps	1.9 %
24Mg (KED)	87.604 ppb	55,006 cps	0.9 %
27Al (KED)	141.458 ppb	21,639 cps	1.5 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.412 %	54,917 cps	0.6 %
51V (KED)	0.260 ppb	2,528 cps	3.0 %
52Cr (KED)	1.121 ppb	17,106 cps	0.6 %
55Mn (KED)	5.067 ppb	38,652 cps	1.7 %
56Fe (KED)	171.772 ppb	2,383,098 cps	0.8 %
58Ni (KED)	0.969 ppb	17,569 cps	1.1 %
59Co (KED)	0.073 ppb	2,199 cps	2.6 %
63Cu (KED)	2.561 ppb	56,473 cps	0.6 %
64Zn (KED)	47.860 ppb	224,657 cps	0.8 %
69Ga (KED)	0.559 ppb	4,050 cps	3.4 %
75As (KED)	0.120 ppb	187 cps	15.3 %
80Se (KED)	0.192 ppb	1,301 cps	3.7 %
85Rb (KED)	0.564 ppb	3,786 cps	7.0 %
88Sr (KED)	1.170 ppb	11,155 cps	1.0 %
89Y (KED)	103.760 %	499,130 cps	0.3 %
107Ag (KED)	0.017 ppb	1,016 cps	10.1 %
114Cd (KED)	0.016 ppb	318 cps	13.1 %
115In (KED)	102.320 %	871,775 cps	0.6 %
133Cs (KED)	0.027 ppb	856 cps	8.8 %
138Ba (KED)	1.877 ppb	84,532 cps	1.1 %
139La (KED)	0.139 ppb	13,342 cps	1.6 %
140Ce (KED)	0.305 ppb	39,169 cps	2.4 %
141Pr (KED)	0.032 ppb	4,304 cps	3.9 %
142Nd (KED)	0.187 ppb	10,035 cps	3.4 %
152Sm (KED)	0.024 ppb	1,185 cps	4.2 %
153Eu (KED)	0.005 ppb	467 cps	4.7 %
158Gd (KED)	0.021 ppb	1,393 cps	0.4 %
159Tb (KED)	103.438 %	4,901,584 cps	1.3 %
164Dy (KED)	0.014 ppb	1,057 cps	0.8 %
166Er (KED)	0.006 ppb	953 cps	6.7 %
169Tm (KED)	0.001 ppb	256 cps	8.9 %
174Yb (KED)	0.005 ppb	569 cps	1.9 %
175Lu (KED)	-0.109 ppb	17,917 cps	2.6 %
205Tl (KED)	0.004 ppb	766 cps	7.2 %
208Pb (KED)	0.310 ppb	46,534 cps	0.3 %
209Bi (KED)	97.744 %	3,481,376 cps	0.3 %
232Th (KED)	0.038 ppb	10,507 cps	1.6 %
238U (KED)	0.009 ppb	2,927 cps	0.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 24

Analysis name: 802133jian

Analysis started at: 10/28/2021 4:08:11 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.096 %	1.4 %
9Be (KED)	0.000 ppb	
11B (KED)	4.461 ppb	21.4 %
24Mg (KED)	60.457 ppb	2.2 %
27Al (KED)	118.905 ppb	2.5 %
45Sc (KED)	103.718 %	0.2 %
51V (KED)	0.203 ppb	3.0 %
52Cr (KED)	0.701 ppb	1.6 %
55Mn (KED)	3.618 ppb	1.0 %
56Fe (KED)	104.047 ppb	0.9 %
58Ni (KED)	0.530 ppb	2.7 %
59Co (KED)	0.052 ppb	4.9 %
63Cu (KED)	1.723 ppb	0.6 %
64Zn (KED)	54.124 ppb	0.3 %
69Ga (KED)	0.400 ppb	4.1 %
75As (KED)	0.088 ppb	22.1 %
80Se (KED)	0.204 ppb	100.0 %
85Rb (KED)	0.291 ppb	3.3 %
88Sr (KED)	0.968 ppb	2.0 %
89Y (KED)	100.977 %	0.2 %
107Ag (KED)	0.024 ppb	5.5 %
114Cd (KED)	0.019 ppb	10.2 %
115In (KED)	99.650 %	0.8 %
133Cs (KED)	0.018 ppb	13.2 %
138Ba (KED)	1.311 ppb	1.4 %
139La (KED)	0.095 ppb	0.7 %
140Ce (KED)	0.245 ppb	1.5 %
141Pr (KED)	0.022 ppb	2.3 %
142Nd (KED)	0.154 ppb	12.7 %
152Sm (KED)	0.015 ppb	7.2 %
153Eu (KED)	0.003 ppb	3.5 %
158Gd (KED)	0.014 ppb	8.3 %
159Tb (KED)	102.406 %	0.9 %
164Dy (KED)	0.010 ppb	5.7 %
166Er (KED)	0.004 ppb	12.5 %
169Tm (KED)	0.001 ppb	2.0 %
174Yb (KED)	0.004 ppb	8.9 %
175Lu (KED)	-0.110 ppb	3.8 %
205Tl (KED)	0.002 ppb	9.3 %
208Pb (KED)	0.269 ppb	1.4 %
209Bi (KED)	96.663 %	0.4 %
232Th (KED)	0.027 ppb	0.9 %
238U (KED)	0.007 ppb	3.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.096 %	3,249 cps	1.4 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	4.461 ppb	950 cps	7.4 %
24Mg (KED)	60.457 ppb	37,375 cps	1.2 %
27Al (KED)	118.905 ppb	17,908 cps	2.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.718 %	54,034 cps	0.2 %
51V (KED)	0.203 ppb	1,942 cps	3.1 %
52Cr (KED)	0.701 ppb	10,540 cps	1.6 %
55Mn (KED)	3.618 ppb	27,172 cps	0.8 %
56Fe (KED)	104.047 ppb	1,421,193 cps	1.2 %
58Ni (KED)	0.530 ppb	9,595 cps	2.8 %
59Co (KED)	0.052 ppb	1,552 cps	4.6 %
63Cu (KED)	1.723 ppb	37,643 cps	0.4 %
64Zn (KED)	54.124 ppb	246,977 cps	0.2 %
69Ga (KED)	0.400 ppb	2,833 cps	3.8 %
75As (KED)	0.088 ppb	136 cps	20.5 %
80Se (KED)	0.204 ppb	1,271 cps	7.0 %
85Rb (KED)	0.291 ppb	1,908 cps	3.4 %
88Sr (KED)	0.968 ppb	9,000 cps	1.8 %
89Y (KED)	100.977 %	485,742 cps	0.2 %
107Ag (KED)	0.024 ppb	1,432 cps	4.7 %
114Cd (KED)	0.019 ppb	350 cps	9.1 %
115In (KED)	99.650 %	849,031 cps	0.8 %
133Cs (KED)	0.018 ppb	576 cps	12.2 %
138Ba (KED)	1.311 ppb	58,638 cps	1.4 %
139La (KED)	0.095 ppb	9,021 cps	1.0 %
140Ce (KED)	0.245 ppb	31,240 cps	1.2 %
141Pr (KED)	0.022 ppb	2,963 cps	2.9 %
142Nd (KED)	0.154 ppb	8,169 cps	13.0 %
152Sm (KED)	0.015 ppb	740 cps	6.4 %
153Eu (KED)	0.003 ppb	340 cps	2.6 %
158Gd (KED)	0.014 ppb	923 cps	7.4 %
159Tb (KED)	102.406 %	4,852,666 cps	0.9 %
164Dy (KED)	0.010 ppb	771 cps	6.4 %
166Er (KED)	0.004 ppb	832 cps	5.5 %
169Tm (KED)	0.001 ppb	188 cps	1.0 %
174Yb (KED)	0.004 ppb	416 cps	9.4 %
175Lu (KED)	-0.110 ppb	17,508 cps	4.1 %
205Tl (KED)	0.002 ppb	494 cps	8.0 %
208Pb (KED)	0.269 ppb	40,448 cps	1.3 %
209Bi (KED)	96.663 %	3,442,845 cps	0.4 %
232Th (KED)	0.027 ppb	7,281 cps	1.3 %
238U (KED)	0.007 ppb	2,186 cps	3.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 25

Analysis name: 80036jian

Analysis started at: 10/28/2021 4:11:22 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.984 %	6.0 %
9Be (KED)	0.008 ppb	173.2 %
11B (KED)	8.998 ppb	6.8 %
24Mg (KED)	72.243 ppb	5.4 %
27Al (KED)	116.214 ppb	1.6 %
45Sc (KED)	103.810 %	1.1 %
51V (KED)	0.213 ppb	0.5 %
52Cr (KED)	0.802 ppb	0.5 %
55Mn (KED)	4.210 ppb	2.7 %
56Fe (KED)	138.504 ppb	1.4 %
58Ni (KED)	0.795 ppb	1.7 %
59Co (KED)	0.070 ppb	4.7 %
63Cu (KED)	2.538 ppb	0.7 %
64Zn (KED)	57.648 ppb	0.5 %
69Ga (KED)	0.439 ppb	3.9 %
75As (KED)	0.120 ppb	8.5 %
80Se (KED)	0.128 ppb	50.4 %
85Rb (KED)	0.455 ppb	1.7 %
88Sr (KED)	0.992 ppb	1.4 %
89Y (KED)	102.483 %	1.3 %
107Ag (KED)	0.016 ppb	5.1 %
114Cd (KED)	0.017 ppb	7.0 %
115In (KED)	99.563 %	0.4 %
133Cs (KED)	0.026 ppb	1.8 %
138Ba (KED)	1.481 ppb	0.9 %
139La (KED)	0.138 ppb	1.6 %
140Ce (KED)	0.301 ppb	2.3 %
141Pr (KED)	0.032 ppb	1.4 %
142Nd (KED)	0.179 ppb	1.9 %
152Sm (KED)	0.021 ppb	8.5 %
153Eu (KED)	0.004 ppb	5.8 %
158Gd (KED)	0.018 ppb	6.0 %
159Tb (KED)	101.450 %	0.5 %
164Dy (KED)	0.012 ppb	11.3 %
166Er (KED)	0.004 ppb	18.1 %
169Tm (KED)	0.001 ppb	13.5 %
174Yb (KED)	0.005 ppb	1.9 %
175Lu (KED)	-0.109 ppb	1.2 %
205Tl (KED)	0.003 ppb	4.2 %
208Pb (KED)	0.291 ppb	1.8 %
209Bi (KED)	97.308 %	0.5 %
232Th (KED)	0.043 ppb	2.7 %
238U (KED)	0.008 ppb	5.1 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.984 %	3,307 cps	6.0 %
9Be (KED)	0.008 ppb	1 cps	173.2 %
11B (KED)	8.998 ppb	1,350 cps	8.1 %
24Mg (KED)	72.243 ppb	45,335 cps	0.6 %
27Al (KED)	116.214 ppb	17,519 cps	0.5 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.810 %	54,082 cps	1.1 %
51V (KED)	0.213 ppb	2,042 cps	0.7 %
52Cr (KED)	0.802 ppb	12,068 cps	1.3 %
55Mn (KED)	4.210 ppb	31,633 cps	2.9 %
56Fe (KED)	138.504 ppb	1,892,679 cps	1.1 %
58Ni (KED)	0.795 ppb	14,257 cps	2.4 %
59Co (KED)	0.070 ppb	2,067 cps	3.9 %
63Cu (KED)	2.538 ppb	55,291 cps	0.8 %
64Zn (KED)	57.648 ppb	266,837 cps	0.9 %
69Ga (KED)	0.439 ppb	3,149 cps	3.0 %
75As (KED)	0.120 ppb	184 cps	9.3 %
80Se (KED)	0.128 ppb	1,258 cps	3.5 %
85Rb (KED)	0.455 ppb	3,018 cps	0.8 %
88Sr (KED)	0.992 ppb	9,355 cps	2.2 %
89Y (KED)	102.483 %	492,987 cps	1.3 %
107Ag (KED)	0.016 ppb	972 cps	4.6 %
114Cd (KED)	0.017 ppb	327 cps	6.7 %
115In (KED)	99.563 %	848,286 cps	0.4 %
133Cs (KED)	0.026 ppb	804 cps	1.3 %
138Ba (KED)	1.481 ppb	65,526 cps	0.4 %
139La (KED)	0.138 ppb	12,982 cps	2.1 %
140Ce (KED)	0.301 ppb	38,005 cps	2.0 %
141Pr (KED)	0.032 ppb	4,173 cps	1.6 %
142Nd (KED)	0.179 ppb	9,406 cps	2.4 %
152Sm (KED)	0.021 ppb	1,029 cps	8.5 %
153Eu (KED)	0.004 ppb	360 cps	5.6 %
158Gd (KED)	0.018 ppb	1,201 cps	6.5 %
159Tb (KED)	101.450 %	4,807,390 cps	0.5 %
164Dy (KED)	0.012 ppb	890 cps	11.2 %
166Er (KED)	0.004 ppb	782 cps	7.1 %
169Tm (KED)	0.001 ppb	211 cps	12.7 %
174Yb (KED)	0.005 ppb	521 cps	1.3 %
175Lu (KED)	-0.109 ppb	17,554 cps	0.9 %
205Tl (KED)	0.003 ppb	593 cps	3.5 %
208Pb (KED)	0.291 ppb	43,740 cps	1.2 %
209Bi (KED)	97.308 %	3,465,842 cps	0.5 %
232Th (KED)	0.043 ppb	11,687 cps	2.2 %
238U (KED)	0.008 ppb	2,504 cps	5.2 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 26

Analysis name: 802158jian

Analysis started at: 10/28/2021 4:14:33 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	103.701 %	2.5 %
9Be (KED)	0.000 ppb	
11B (KED)	14.517 ppb	5.1 %
24Mg (KED)	155.440 ppb	2.7 %
27Al (KED)	234.822 ppb	1.1 %
45Sc (KED)	106.293 %	1.3 %
51V (KED)	0.460 ppb	1.0 %
52Cr (KED)	0.939 ppb	0.1 %
55Mn (KED)	6.356 ppb	2.1 %
56Fe (KED)	259.032 ppb	0.9 %
58Ni (KED)	1.214 ppb	0.9 %
59Co (KED)	0.119 ppb	3.2 %
63Cu (KED)	2.311 ppb	1.1 %
64Zn (KED)	58.107 ppb	1.5 %
69Ga (KED)	0.786 ppb	3.4 %
75As (KED)	0.153 ppb	1.9 %
80Se (KED)	0.247 ppb	32.5 %
85Rb (KED)	0.865 ppb	2.0 %
88Sr (KED)	1.564 ppb	2.5 %
89Y (KED)	103.743 %	1.2 %
107Ag (KED)	0.017 ppb	1.1 %
114Cd (KED)	0.013 ppb	10.9 %
115In (KED)	101.885 %	0.3 %
133Cs (KED)	0.049 ppb	3.4 %
138Ba (KED)	2.650 ppb	0.7 %
139La (KED)	0.225 ppb	1.0 %
140Ce (KED)	0.465 ppb	0.8 %
141Pr (KED)	0.054 ppb	2.2 %
142Nd (KED)	0.288 ppb	3.5 %
152Sm (KED)	0.040 ppb	3.9 %
153Eu (KED)	0.008 ppb	3.6 %
158Gd (KED)	0.035 ppb	3.3 %
159Tb (KED)	104.506 %	1.0 %
164Dy (KED)	0.024 ppb	2.9 %
166Er (KED)	0.010 ppb	6.4 %
169Tm (KED)	0.002 ppb	2.4 %
174Yb (KED)	0.009 ppb	2.2 %
175Lu (KED)	-0.107 ppb	2.3 %
205Tl (KED)	0.006 ppb	1.6 %
208Pb (KED)	0.503 ppb	1.1 %
209Bi (KED)	98.561 %	0.9 %
232Th (KED)	0.062 ppb	0.2 %
238U (KED)	0.014 ppb	3.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	103.701 %	3,176 cps	2.5 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	14.517 ppb	1,742 cps	4.6 %
24Mg (KED)	155.440 ppb	93,677 cps	0.4 %
27Al (KED)	234.822 ppb	36,161 cps	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.293 %	55,376 cps	1.3 %
51V (KED)	0.460 ppb	4,519 cps	0.3 %
52Cr (KED)	0.939 ppb	14,465 cps	1.2 %
55Mn (KED)	6.356 ppb	48,870 cps	1.1 %
56Fe (KED)	259.032 ppb	3,622,475 cps	0.4 %
58Ni (KED)	1.214 ppb	22,131 cps	0.4 %
59Co (KED)	0.119 ppb	3,583 cps	2.1 %
63Cu (KED)	2.311 ppb	51,157 cps	1.6 %
64Zn (KED)	58.107 ppb	272,233 cps	0.4 %
69Ga (KED)	0.786 ppb	5,679 cps	2.1 %
75As (KED)	0.153 ppb	233 cps	1.4 %
80Se (KED)	0.247 ppb	1,325 cps	1.5 %
85Rb (KED)	0.865 ppb	5,801 cps	2.3 %
88Sr (KED)	1.564 ppb	14,879 cps	1.7 %
89Y (KED)	103.743 %	499,046 cps	1.2 %
107Ag (KED)	0.017 ppb	1,041 cps	0.8 %
114Cd (KED)	0.013 ppb	253 cps	9.9 %
115In (KED)	101.885 %	868,068 cps	0.3 %
133Cs (KED)	0.049 ppb	1,550 cps	3.4 %
138Ba (KED)	2.650 ppb	120,274 cps	0.3 %
139La (KED)	0.225 ppb	21,792 cps	0.2 %
140Ce (KED)	0.465 ppb	60,352 cps	0.3 %
141Pr (KED)	0.054 ppb	7,323 cps	2.7 %
142Nd (KED)	0.288 ppb	15,602 cps	2.8 %
152Sm (KED)	0.040 ppb	1,991 cps	3.8 %
153Eu (KED)	0.008 ppb	801 cps	2.6 %
158Gd (KED)	0.035 ppb	2,319 cps	4.2 %
159Tb (KED)	104.506 %	4,952,201 cps	1.0 %
164Dy (KED)	0.024 ppb	1,842 cps	2.0 %
166Er (KED)	0.010 ppb	1,381 cps	3.6 %
169Tm (KED)	0.002 ppb	524 cps	3.3 %
174Yb (KED)	0.009 ppb	1,004 cps	1.3 %
175Lu (KED)	-0.107 ppb	18,307 cps	1.5 %
205Tl (KED)	0.006 ppb	1,163 cps	2.4 %
208Pb (KED)	0.503 ppb	73,566 cps	2.0 %
209Bi (KED)	98.561 %	3,510,446 cps	0.9 %
232Th (KED)	0.062 ppb	16,958 cps	1.0 %
238U (KED)	0.014 ppb	4,641 cps	2.6 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 27

Analysis name: 80075jian

Analysis started at: 10/28/2021 4:17:47 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.750 %	3.5 %
9Be (KED)	0.000 ppb	
11B (KED)	6.960 ppb	8.5 %
24Mg (KED)	84.465 ppb	2.5 %
27Al (KED)	143.851 ppb	0.4 %
45Sc (KED)	105.772 %	0.6 %
51V (KED)	0.269 ppb	0.4 %
52Cr (KED)	0.971 ppb	0.2 %
55Mn (KED)	4.598 ppb	2.4 %
56Fe (KED)	141.558 ppb	0.5 %
58Ni (KED)	0.676 ppb	2.7 %
59Co (KED)	0.075 ppb	1.6 %
63Cu (KED)	2.185 ppb	1.4 %
64Zn (KED)	52.900 ppb	2.1 %
69Ga (KED)	0.488 ppb	4.4 %
75As (KED)	0.121 ppb	12.7 %
80Se (KED)	0.333 ppb	58.3 %
85Rb (KED)	0.515 ppb	6.3 %
88Sr (KED)	1.582 ppb	1.8 %
89Y (KED)	102.295 %	1.7 %
107Ag (KED)	0.012 ppb	9.0 %
114Cd (KED)	0.021 ppb	4.8 %
115In (KED)	101.376 %	0.8 %
133Cs (KED)	0.028 ppb	12.9 %
138Ba (KED)	1.648 ppb	1.0 %
139La (KED)	0.111 ppb	3.6 %
140Ce (KED)	0.240 ppb	1.7 %
141Pr (KED)	0.027 ppb	1.1 %
142Nd (KED)	0.151 ppb	5.0 %
152Sm (KED)	0.020 ppb	3.6 %
153Eu (KED)	0.004 ppb	11.0 %
158Gd (KED)	0.018 ppb	3.0 %
159Tb (KED)	102.701 %	0.5 %
164Dy (KED)	0.013 ppb	2.2 %
166Er (KED)	0.005 ppb	16.5 %
169Tm (KED)	0.001 ppb	21.8 %
174Yb (KED)	0.006 ppb	9.5 %
175Lu (KED)	-0.108 ppb	1.3 %
205Tl (KED)	0.003 ppb	11.3 %
208Pb (KED)	0.238 ppb	0.9 %
209Bi (KED)	98.816 %	1.1 %
232Th (KED)	0.033 ppb	2.6 %
238U (KED)	0.008 ppb	1.8 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.750 %	3,269 cps	3.5 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	6.960 ppb	1,166 cps	7.7 %
24Mg (KED)	84.465 ppb	52,458 cps	1.1 %
27Al (KED)	143.851 ppb	22,077 cps	0.2 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.772 %	55,105 cps	0.6 %
51V (KED)	0.269 ppb	2,631 cps	1.0 %
52Cr (KED)	0.971 ppb	14,881 cps	0.8 %
55Mn (KED)	4.598 ppb	35,201 cps	1.8 %
56Fe (KED)	141.558 ppb	1,971,024 cps	0.5 %
58Ni (KED)	0.676 ppb	12,384 cps	2.6 %
59Co (KED)	0.075 ppb	2,265 cps	2.1 %
63Cu (KED)	2.185 ppb	47,787 cps	0.4 %
64Zn (KED)	52.900 ppb	244,535 cps	0.5 %
69Ga (KED)	0.488 ppb	3,487 cps	3.1 %
75As (KED)	0.121 ppb	186 cps	12.2 %
80Se (KED)	0.333 ppb	1,342 cps	5.0 %
85Rb (KED)	0.515 ppb	3,407 cps	5.2 %
88Sr (KED)	1.582 ppb	14,842 cps	1.2 %
89Y (KED)	102.295 %	492,083 cps	1.7 %
107Ag (KED)	0.012 ppb	748 cps	9.1 %
114Cd (KED)	0.021 ppb	396 cps	5.1 %
115In (KED)	101.376 %	863,734 cps	0.8 %
133Cs (KED)	0.028 ppb	872 cps	12.0 %
138Ba (KED)	1.648 ppb	73,750 cps	0.7 %
139La (KED)	0.111 ppb	10,597 cps	3.5 %
140Ce (KED)	0.240 ppb	30,614 cps	1.3 %
141Pr (KED)	0.027 ppb	3,614 cps	0.8 %
142Nd (KED)	0.151 ppb	8,045 cps	4.7 %
152Sm (KED)	0.020 ppb	980 cps	3.2 %
153Eu (KED)	0.004 ppb	387 cps	11.0 %
158Gd (KED)	0.018 ppb	1,168 cps	2.8 %
159Tb (KED)	102.701 %	4,866,670 cps	0.5 %
164Dy (KED)	0.013 ppb	997 cps	2.6 %
166Er (KED)	0.005 ppb	921 cps	8.3 %
169Tm (KED)	0.001 ppb	280 cps	20.7 %
174Yb (KED)	0.006 ppb	611 cps	9.6 %
175Lu (KED)	-0.108 ppb	17,942 cps	1.2 %
205Tl (KED)	0.003 ppb	717 cps	9.6 %
208Pb (KED)	0.238 ppb	37,068 cps	0.6 %
209Bi (KED)	98.816 %	3,519,542 cps	1.1 %
232Th (KED)	0.033 ppb	9,153 cps	1.8 %
238U (KED)	0.008 ppb	2,817 cps	2.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 28

Analysis name: 803244jian

Analysis started at: 10/28/2021 4:20:58 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.746 %	4.7 %
9Be (KED)	0.000 ppb	
11B (KED)	12.432 ppb	7.2 %
24Mg (KED)	115.398 ppb	4.0 %
27Al (KED)	193.617 ppb	0.6 %
45Sc (KED)	106.460 %	0.3 %
51V (KED)	0.351 ppb	1.4 %
52Cr (KED)	1.241 ppb	2.1 %
55Mn (KED)	6.909 ppb	1.5 %
56Fe (KED)	201.009 ppb	0.2 %
58Ni (KED)	1.318 ppb	1.2 %
59Co (KED)	0.110 ppb	3.8 %
63Cu (KED)	2.475 ppb	1.2 %
64Zn (KED)	70.461 ppb	0.7 %
69Ga (KED)	0.706 ppb	1.9 %
75As (KED)	0.186 ppb	14.9 %
80Se (KED)	0.328 ppb	60.9 %
85Rb (KED)	0.598 ppb	2.3 %
88Sr (KED)	1.977 ppb	4.2 %
89Y (KED)	104.286 %	1.5 %
107Ag (KED)	0.011 ppb	14.3 %
114Cd (KED)	0.023 ppb	1.9 %
115In (KED)	103.140 %	1.3 %
133Cs (KED)	0.037 ppb	10.8 %
138Ba (KED)	2.435 ppb	1.7 %
139La (KED)	0.196 ppb	0.5 %
140Ce (KED)	0.412 ppb	2.8 %
141Pr (KED)	0.046 ppb	1.2 %
142Nd (KED)	0.249 ppb	2.3 %
152Sm (KED)	0.033 ppb	6.0 %
153Eu (KED)	0.007 ppb	3.2 %
158Gd (KED)	0.029 ppb	1.5 %
159Tb (KED)	103.783 %	0.3 %
164Dy (KED)	0.021 ppb	6.0 %
166Er (KED)	0.008 ppb	9.9 %
169Tm (KED)	0.001 ppb	5.6 %
174Yb (KED)	0.009 ppb	5.4 %
175Lu (KED)	-0.109 ppb	3.2 %
205Tl (KED)	0.005 ppb	7.4 %
208Pb (KED)	0.853 ppb	1.7 %
209Bi (KED)	98.855 %	1.2 %
232Th (KED)	0.055 ppb	2.1 %
238U (KED)	0.015 ppb	2.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.746 %	3,330 cps	4.7 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	12.432 ppb	1,648 cps	2.0 %
24Mg (KED)	115.398 ppb	72,911 cps	1.5 %
27Al (KED)	193.617 ppb	29,880 cps	0.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.460 %	55,463 cps	0.3 %
51V (KED)	0.351 ppb	3,448 cps	1.5 %
52Cr (KED)	1.241 ppb	19,125 cps	1.7 %
55Mn (KED)	6.909 ppb	53,214 cps	1.3 %
56Fe (KED)	201.009 ppb	2,816,148 cps	0.4 %
58Ni (KED)	1.318 ppb	24,043 cps	1.4 %
59Co (KED)	0.110 ppb	3,319 cps	3.7 %
63Cu (KED)	2.475 ppb	54,910 cps	1.6 %
64Zn (KED)	70.461 ppb	331,405 cps	0.8 %
69Ga (KED)	0.706 ppb	5,129 cps	1.3 %
75As (KED)	0.186 ppb	284 cps	15.7 %
80Se (KED)	0.328 ppb	1,367 cps	6.0 %
85Rb (KED)	0.598 ppb	4,040 cps	3.4 %
88Sr (KED)	1.977 ppb	18,883 cps	3.4 %
89Y (KED)	104.286 %	501,660 cps	1.5 %
107Ag (KED)	0.011 ppb	679 cps	15.0 %
114Cd (KED)	0.023 ppb	437 cps	0.8 %
115In (KED)	103.140 %	878,768 cps	1.3 %
133Cs (KED)	0.037 ppb	1,187 cps	10.0 %
138Ba (KED)	2.435 ppb	109,806 cps	1.5 %
139La (KED)	0.196 ppb	18,885 cps	0.4 %
140Ce (KED)	0.412 ppb	53,079 cps	2.6 %
141Pr (KED)	0.046 ppb	6,193 cps	0.9 %
142Nd (KED)	0.249 ppb	13,398 cps	2.6 %
152Sm (KED)	0.033 ppb	1,619 cps	5.6 %
153Eu (KED)	0.007 ppb	659 cps	3.0 %
158Gd (KED)	0.029 ppb	1,953 cps	1.7 %
159Tb (KED)	103.783 %	4,917,921 cps	0.3 %
164Dy (KED)	0.021 ppb	1,608 cps	5.6 %
166Er (KED)	0.008 ppb	1,189 cps	6.2 %
169Tm (KED)	0.001 ppb	444 cps	5.6 %
174Yb (KED)	0.009 ppb	973 cps	5.6 %
175Lu (KED)	-0.109 ppb	17,857 cps	3.8 %
205Tl (KED)	0.005 ppb	1,023 cps	5.9 %
208Pb (KED)	0.853 ppb	122,232 cps	0.6 %
209Bi (KED)	98.855 %	3,520,935 cps	1.2 %
232Th (KED)	0.055 ppb	15,279 cps	2.0 %
238U (KED)	0.015 ppb	4,910 cps	2.2 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 29

Analysis name: 805028jian

Analysis started at: 10/28/2021 4:24:13 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.084 %	3.1 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	-1.227 ppb	37.5 %
24Mg (KED)	118.508 ppb	2.3 %
27Al (KED)	146.857 ppb	1.1 %
45Sc (KED)	105.299 %	0.9 %
51V (KED)	0.283 ppb	2.8 %
52Cr (KED)	0.680 ppb	3.7 %
55Mn (KED)	5.803 ppb	0.7 %
56Fe (KED)	166.320 ppb	1.6 %
58Ni (KED)	1.176 ppb	1.3 %
59Co (KED)	0.095 ppb	4.2 %
63Cu (KED)	2.899 ppb	3.0 %
64Zn (KED)	60.358 ppb	0.5 %
69Ga (KED)	0.749 ppb	4.0 %
75As (KED)	0.140 ppb	15.9 %
80Se (KED)	0.185 ppb	101.1 %
85Rb (KED)	0.843 ppb	3.5 %
88Sr (KED)	1.788 ppb	1.5 %
89Y (KED)	104.235 %	1.7 %
107Ag (KED)	0.031 ppb	2.4 %
114Cd (KED)	0.023 ppb	11.3 %
115In (KED)	100.885 %	1.6 %
133Cs (KED)	0.031 ppb	4.5 %
138Ba (KED)	2.533 ppb	1.3 %
139La (KED)	0.164 ppb	0.8 %
140Ce (KED)	0.332 ppb	1.7 %
141Pr (KED)	0.038 ppb	1.8 %
142Nd (KED)	0.204 ppb	4.3 %
152Sm (KED)	0.027 ppb	5.5 %
153Eu (KED)	0.006 ppb	9.2 %
158Gd (KED)	0.022 ppb	2.7 %
159Tb (KED)	103.651 %	1.1 %
164Dy (KED)	0.015 ppb	2.5 %
166Er (KED)	0.005 ppb	12.3 %
169Tm (KED)	0.001 ppb	8.2 %
174Yb (KED)	0.006 ppb	2.7 %
175Lu (KED)	-0.105 ppb	1.8 %
205Tl (KED)	0.005 ppb	4.3 %
208Pb (KED)	0.659 ppb	1.7 %
209Bi (KED)	97.673 %	0.4 %
232Th (KED)	0.042 ppb	2.3 %
238U (KED)	0.010 ppb	3.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.084 %	3,433 cps	3.1 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	-1.227 ppb	508 cps	10.6 %
24Mg (KED)	118.508 ppb	77,232 cps	1.8 %
27Al (KED)	146.857 ppb	22,438 cps	2.0 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.299 %	54,858 cps	0.9 %
51V (KED)	0.283 ppb	2,751 cps	2.1 %
52Cr (KED)	0.680 ppb	10,384 cps	3.5 %
55Mn (KED)	5.803 ppb	44,218 cps	1.3 %
56Fe (KED)	166.320 ppb	2,305,090 cps	1.8 %
58Ni (KED)	1.176 ppb	21,237 cps	0.4 %
59Co (KED)	0.095 ppb	2,859 cps	4.8 %
63Cu (KED)	2.899 ppb	63,905 cps	1.6 %
64Zn (KED)	60.358 ppb	284,063 cps	1.6 %
69Ga (KED)	0.749 ppb	5,435 cps	2.9 %
75As (KED)	0.140 ppb	216 cps	14.0 %
80Se (KED)	0.185 ppb	1,305 cps	7.2 %
85Rb (KED)	0.843 ppb	5,686 cps	5.1 %
88Sr (KED)	1.788 ppb	17,075 cps	0.5 %
89Y (KED)	104.235 %	501,414 cps	1.7 %
107Ag (KED)	0.031 ppb	1,816 cps	4.0 %
114Cd (KED)	0.023 ppb	440 cps	12.5 %
115In (KED)	100.885 %	859,550 cps	1.6 %
133Cs (KED)	0.031 ppb	963 cps	3.3 %
138Ba (KED)	2.533 ppb	114,080 cps	2.2 %
139La (KED)	0.164 ppb	15,769 cps	1.8 %
140Ce (KED)	0.332 ppb	42,743 cps	0.7 %
141Pr (KED)	0.038 ppb	5,139 cps	0.7 %
142Nd (KED)	0.204 ppb	10,993 cps	3.5 %
152Sm (KED)	0.027 ppb	1,333 cps	4.4 %
153Eu (KED)	0.006 ppb	597 cps	9.1 %
158Gd (KED)	0.022 ppb	1,468 cps	3.4 %
159Tb (KED)	103.651 %	4,911,685 cps	1.1 %
164Dy (KED)	0.015 ppb	1,146 cps	2.4 %
166Er (KED)	0.005 ppb	914 cps	5.8 %
169Tm (KED)	0.001 ppb	323 cps	8.8 %
174Yb (KED)	0.006 ppb	638 cps	1.5 %
175Lu (KED)	-0.105 ppb	18,502 cps	0.8 %
205Tl (KED)	0.005 ppb	1,069 cps	4.4 %
208Pb (KED)	0.659 ppb	94,228 cps	1.5 %
209Bi (KED)	97.673 %	3,478,849 cps	0.4 %
232Th (KED)	0.042 ppb	11,435 cps	2.3 %
238U (KED)	0.010 ppb	3,209 cps	3.8 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 30

Analysis name: 80040jian

Analysis started at: 10/28/2021 4:27:27 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.492 %	3.1 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	22.622 ppb	3.3 %
24Mg (KED)	92.735 ppb	3.8 %
27Al (KED)	108.859 ppb	1.6 %
45Sc (KED)	106.507 %	0.5 %
51V (KED)	0.210 ppb	2.6 %
52Cr (KED)	0.469 ppb	4.3 %
55Mn (KED)	4.381 ppb	0.5 %
56Fe (KED)	106.943 ppb	2.0 %
58Ni (KED)	0.758 ppb	0.7 %
59Co (KED)	0.073 ppb	3.8 %
63Cu (KED)	2.723 ppb	3.0 %
64Zn (KED)	49.817 ppb	2.3 %
69Ga (KED)	0.498 ppb	5.1 %
75As (KED)	0.093 ppb	17.1 %
80Se (KED)	0.412 ppb	86.7 %
85Rb (KED)	0.850 ppb	4.7 %
88Sr (KED)	1.550 ppb	2.0 %
89Y (KED)	104.711 %	2.5 %
107Ag (KED)	0.009 ppb	6.5 %
114Cd (KED)	0.021 ppb	9.1 %
115In (KED)	102.937 %	1.5 %
133Cs (KED)	0.017 ppb	7.8 %
138Ba (KED)	1.709 ppb	1.2 %
139La (KED)	0.097 ppb	1.9 %
140Ce (KED)	0.210 ppb	0.4 %
141Pr (KED)	0.022 ppb	2.3 %
142Nd (KED)	0.123 ppb	4.1 %
152Sm (KED)	0.016 ppb	4.2 %
153Eu (KED)	0.004 ppb	11.3 %
158Gd (KED)	0.014 ppb	8.3 %
159Tb (KED)	104.049 %	0.6 %
164Dy (KED)	0.010 ppb	7.9 %
166Er (KED)	0.002 ppb	11.2 %
169Tm (KED)	0.001 ppb	8.7 %
174Yb (KED)	0.004 ppb	6.3 %
175Lu (KED)	-0.108 ppb	0.5 %
205Tl (KED)	0.003 ppb	5.1 %
208Pb (KED)	0.367 ppb	2.8 %
209Bi (KED)	98.796 %	2.1 %
232Th (KED)	0.026 ppb	4.3 %
238U (KED)	0.007 ppb	6.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.492 %	3,323 cps	3.1 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	22.622 ppb	2,507 cps	0.9 %
24Mg (KED)	92.735 ppb	58,513 cps	1.6 %
27Al (KED)	108.859 ppb	16,844 cps	1.6 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.507 %	55,487 cps	0.5 %
51V (KED)	0.210 ppb	2,064 cps	2.2 %
52Cr (KED)	0.469 ppb	7,260 cps	4.0 %
55Mn (KED)	4.381 ppb	33,773 cps	0.0 %
56Fe (KED)	106.943 ppb	1,499,864 cps	1.5 %
58Ni (KED)	0.758 ppb	13,958 cps	1.2 %
59Co (KED)	0.073 ppb	2,229 cps	3.3 %
63Cu (KED)	2.723 ppb	60,431 cps	0.4 %
64Zn (KED)	49.817 ppb	235,809 cps	0.5 %
69Ga (KED)	0.498 ppb	3,639 cps	3.5 %
75As (KED)	0.093 ppb	148 cps	17.1 %
80Se (KED)	0.412 ppb	1,407 cps	8.5 %
85Rb (KED)	0.850 ppb	5,747 cps	2.6 %
88Sr (KED)	1.550 ppb	14,884 cps	2.8 %
89Y (KED)	104.711 %	503,704 cps	2.5 %
107Ag (KED)	0.009 ppb	582 cps	6.9 %
114Cd (KED)	0.021 ppb	399 cps	7.5 %
115In (KED)	102.937 %	877,031 cps	1.5 %
133Cs (KED)	0.017 ppb	561 cps	8.2 %
138Ba (KED)	1.709 ppb	77,478 cps	1.4 %
139La (KED)	0.097 ppb	9,350 cps	2.4 %
140Ce (KED)	0.210 ppb	27,184 cps	0.5 %
141Pr (KED)	0.022 ppb	2,947 cps	1.7 %
142Nd (KED)	0.123 ppb	6,674 cps	3.6 %
152Sm (KED)	0.016 ppb	801 cps	4.6 %
153Eu (KED)	0.004 ppb	356 cps	11.6 %
158Gd (KED)	0.014 ppb	940 cps	8.3 %
159Tb (KED)	104.049 %	4,930,543 cps	0.6 %
164Dy (KED)	0.010 ppb	773 cps	7.8 %
166Er (KED)	0.002 ppb	681 cps	3.0 %
169Tm (KED)	0.001 ppb	208 cps	8.8 %
174Yb (KED)	0.004 ppb	486 cps	5.5 %
175Lu (KED)	-0.108 ppb	18,110 cps	0.2 %
205Tl (KED)	0.003 ppb	696 cps	6.8 %
208Pb (KED)	0.367 ppb	54,956 cps	0.5 %
209Bi (KED)	98.796 %	3,518,850 cps	2.1 %
232Th (KED)	0.026 ppb	7,104 cps	2.3 %
238U (KED)	0.007 ppb	2,215 cps	4.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 31

Analysis name: 803041jian

Analysis started at: 10/28/2021 4:30:37 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	115.387 %	
9Be (KED)	0.042 ppb	
11B (KED)	7.828 ppb	
24Mg (KED)	99.467 ppb	
27Al (KED)	127.736 ppb	
45Sc (KED)	109.346 %	
51V (KED)	0.252 ppb	
52Cr (KED)	0.557 ppb	
55Mn (KED)	5.926 ppb	
56Fe (KED)	142.855 ppb	
58Ni (KED)	1.280 ppb	
59Co (KED)	0.085 ppb	
63Cu (KED)	2.986 ppb	
64Zn (KED)	57.827 ppb	
69Ga (KED)	0.575 ppb	
75As (KED)	0.119 ppb	
80Se (KED)	0.471 ppb	
85Rb (KED)	0.455 ppb	
88Sr (KED)	1.651 ppb	
89Y (KED)	104.832 %	
107Ag (KED)	0.010 ppb	
114Cd (KED)	0.021 ppb	
115In (KED)	105.175 %	
133Cs (KED)	0.025 ppb	
138Ba (KED)	1.940 ppb	
139La (KED)	0.126 ppb	
140Ce (KED)	0.267 ppb	
141Pr (KED)	0.029 ppb	
142Nd (KED)	0.158 ppb	
152Sm (KED)	0.022 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.020 ppb	
159Tb (KED)	107.417 %	
164Dy (KED)	0.013 ppb	
166Er (KED)	0.004 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.111 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.383 ppb	
209Bi (KED)	100.863 %	
232Th (KED)	0.035 ppb	
238U (KED)	0.009 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	115.387 %	3,534 cps	
9Be (KED)	0.042 ppb	7 cps	
11B (KED)	7.828 ppb	1,337 cps	
24Mg (KED)	99.467 ppb	66,785 cps	
27Al (KED)	127.736 ppb	20,276 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	109.346 %	56,966 cps	
51V (KED)	0.252 ppb	2,550 cps	
52Cr (KED)	0.557 ppb	8,843 cps	
55Mn (KED)	5.926 ppb	46,888 cps	
56Fe (KED)	142.855 ppb	2,056,295 cps	
58Ni (KED)	1.280 ppb	23,980 cps	
59Co (KED)	0.085 ppb	2,634 cps	
63Cu (KED)	2.986 ppb	66,172 cps	
64Zn (KED)	57.827 ppb	273,802 cps	
69Ga (KED)	0.575 ppb	4,204 cps	
75As (KED)	0.119 ppb	187 cps	
80Se (KED)	0.471 ppb	1,437 cps	
85Rb (KED)	0.455 ppb	3,090 cps	
88Sr (KED)	1.651 ppb	15,867 cps	
89Y (KED)	104.832 %	504,284 cps	
107Ag (KED)	0.010 ppb	643 cps	
114Cd (KED)	0.021 ppb	413 cps	
115In (KED)	105.175 %	896,105 cps	
133Cs (KED)	0.025 ppb	810 cps	
138Ba (KED)	1.940 ppb	90,705 cps	
139La (KED)	0.126 ppb	12,500 cps	
140Ce (KED)	0.267 ppb	35,627 cps	
141Pr (KED)	0.029 ppb	4,007 cps	
142Nd (KED)	0.158 ppb	8,823 cps	
152Sm (KED)	0.022 ppb	1,100 cps	
153Eu (KED)	0.004 ppb	453 cps	
158Gd (KED)	0.020 ppb	1,367 cps	
159Tb (KED)	107.417 %	5,090,104 cps	
164Dy (KED)	0.013 ppb	1,003 cps	
166Er (KED)	0.004 ppb	860 cps	
169Tm (KED)	0.001 ppb	283 cps	
174Yb (KED)	0.005 ppb	520 cps	
175Lu (KED)	-0.111 ppb	18,183 cps	
205Tl (KED)	0.004 ppb	883 cps	
208Pb (KED)	0.383 ppb	58,289 cps	
209Bi (KED)	100.863 %	3,592,463 cps	
232Th (KED)	0.035 ppb	9,797 cps	
238U (KED)	0.009 ppb	3,030 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 32

Analysis name: 80057jian

Analysis started at: 10/28/2021 4:32:44 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.379 %	
9Be (KED)	0.000 ppb	
11B (KED)	7.457 ppb	
24Mg (KED)	69.211 ppb	
27Al (KED)	91.842 ppb	
45Sc (KED)	107.990 %	
51V (KED)	0.142 ppb	
52Cr (KED)	0.498 ppb	
55Mn (KED)	2.604 ppb	
56Fe (KED)	96.236 ppb	
58Ni (KED)	1.337 ppb	
59Co (KED)	0.057 ppb	
63Cu (KED)	2.585 ppb	
64Zn (KED)	52.071 ppb	
69Ga (KED)	0.351 ppb	
75As (KED)	0.114 ppb	
80Se (KED)	0.135 ppb	
85Rb (KED)	0.659 ppb	
88Sr (KED)	1.364 ppb	
89Y (KED)	105.687 %	
107Ag (KED)	0.027 ppb	
114Cd (KED)	0.013 ppb	
115In (KED)	101.708 %	
133Cs (KED)	0.019 ppb	
138Ba (KED)	1.197 ppb	
139La (KED)	0.088 ppb	
140Ce (KED)	0.198 ppb	
141Pr (KED)	0.022 ppb	
142Nd (KED)	0.118 ppb	
152Sm (KED)	0.013 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.014 ppb	
159Tb (KED)	104.417 %	
164Dy (KED)	0.010 ppb	
166Er (KED)	0.002 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.004 ppb	
175Lu (KED)	-0.109 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.256 ppb	
209Bi (KED)	96.424 %	
232Th (KED)	0.024 ppb	
238U (KED)	0.008 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.379 %	3,380 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	7.457 ppb	1,247 cps	
24Mg (KED)	69.211 ppb	44,499 cps	
27Al (KED)	91.842 ppb	14,422 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	107.990 %	56,260 cps	
51V (KED)	0.142 ppb	1,420 cps	
52Cr (KED)	0.498 ppb	7,816 cps	
55Mn (KED)	2.604 ppb	20,373 cps	
56Fe (KED)	96.236 ppb	1,368,790 cps	
58Ni (KED)	1.337 ppb	24,731 cps	
59Co (KED)	0.057 ppb	1,757 cps	
63Cu (KED)	2.585 ppb	58,024 cps	
64Zn (KED)	52.071 ppb	248,774 cps	
69Ga (KED)	0.351 ppb	2,607 cps	
75As (KED)	0.114 ppb	180 cps	
80Se (KED)	0.135 ppb	1,300 cps	
85Rb (KED)	0.659 ppb	4,507 cps	
88Sr (KED)	1.364 ppb	13,234 cps	
89Y (KED)	105.687 %	508,398 cps	
107Ag (KED)	0.027 ppb	1,617 cps	
114Cd (KED)	0.013 ppb	260 cps	
115In (KED)	101.708 %	866,563 cps	
133Cs (KED)	0.019 ppb	603 cps	
138Ba (KED)	1.197 ppb	54,646 cps	
139La (KED)	0.088 ppb	8,523 cps	
140Ce (KED)	0.198 ppb	25,740 cps	
141Pr (KED)	0.022 ppb	2,960 cps	
142Nd (KED)	0.118 ppb	6,428 cps	
152Sm (KED)	0.013 ppb	657 cps	
153Eu (KED)	0.003 ppb	300 cps	
158Gd (KED)	0.014 ppb	937 cps	
159Tb (KED)	104.417 %	4,947,944 cps	
164Dy (KED)	0.010 ppb	747 cps	
166Er (KED)	0.002 ppb	680 cps	
169Tm (KED)	0.001 ppb	180 cps	
174Yb (KED)	0.004 ppb	403 cps	
175Lu (KED)	-0.109 ppb	18,007 cps	
205Tl (KED)	0.004 ppb	717 cps	
208Pb (KED)	0.256 ppb	38,560 cps	
209Bi (KED)	96.424 %	3,434,355 cps	
232Th (KED)	0.024 ppb	6,542 cps	
238U (KED)	0.008 ppb	2,674 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 33

Analysis name: 80119jian

Analysis started at: 10/28/2021 4:34:42 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.161 %	
9Be (KED)	0.000 ppb	
11B (KED)	6.437 ppb	
24Mg (KED)	63.684 ppb	
27Al (KED)	91.418 ppb	
45Sc (KED)	108.864 %	
51V (KED)	0.169 ppb	
52Cr (KED)	0.911 ppb	
55Mn (KED)	4.149 ppb	
56Fe (KED)	93.274 ppb	
58Ni (KED)	0.608 ppb	
59Co (KED)	0.056 ppb	
63Cu (KED)	2.191 ppb	
64Zn (KED)	51.612 ppb	
69Ga (KED)	0.453 ppb	
75As (KED)	0.098 ppb	
80Se (KED)	0.148 ppb	
85Rb (KED)	0.483 ppb	
88Sr (KED)	1.098 ppb	
89Y (KED)	105.498 %	
107Ag (KED)	0.025 ppb	
114Cd (KED)	0.022 ppb	
115In (KED)	103.848 %	
133Cs (KED)	0.017 ppb	
138Ba (KED)	1.506 ppb	
139La (KED)	0.085 ppb	
140Ce (KED)	0.177 ppb	
141Pr (KED)	0.019 ppb	
142Nd (KED)	0.108 ppb	
152Sm (KED)	0.012 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.012 ppb	
159Tb (KED)	105.359 %	
164Dy (KED)	0.009 ppb	
166Er (KED)	0.002 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.003 ppb	
175Lu (KED)	-0.106 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.365 ppb	
209Bi (KED)	100.679 %	
232Th (KED)	0.022 ppb	
238U (KED)	0.006 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.161 %	3,374 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	6.437 ppb	1,157 cps	
24Mg (KED)	63.684 ppb	40,877 cps	
27Al (KED)	91.418 ppb	14,472 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	108.864 %	56,715 cps	
51V (KED)	0.169 ppb	1,703 cps	
52Cr (KED)	0.911 ppb	14,368 cps	
55Mn (KED)	4.149 ppb	32,699 cps	
56Fe (KED)	93.274 ppb	1,337,460 cps	
58Ni (KED)	0.608 ppb	11,505 cps	
59Co (KED)	0.056 ppb	1,733 cps	
63Cu (KED)	2.191 ppb	49,428 cps	
64Zn (KED)	51.612 ppb	246,158 cps	
69Ga (KED)	0.453 ppb	3,344 cps	
75As (KED)	0.098 ppb	157 cps	
80Se (KED)	0.148 ppb	1,303 cps	
85Rb (KED)	0.483 ppb	3,300 cps	
88Sr (KED)	1.098 ppb	10,648 cps	
89Y (KED)	105.498 %	507,490 cps	
107Ag (KED)	0.025 ppb	1,530 cps	
114Cd (KED)	0.022 ppb	423 cps	
115In (KED)	103.848 %	884,795 cps	
133Cs (KED)	0.017 ppb	553 cps	
138Ba (KED)	1.506 ppb	69,221 cps	
139La (KED)	0.085 ppb	8,256 cps	
140Ce (KED)	0.177 ppb	23,272 cps	
141Pr (KED)	0.019 ppb	2,627 cps	
142Nd (KED)	0.108 ppb	5,935 cps	
152Sm (KED)	0.012 ppb	603 cps	
153Eu (KED)	0.003 ppb	283 cps	
158Gd (KED)	0.012 ppb	803 cps	
159Tb (KED)	105.359 %	4,992,586 cps	
164Dy (KED)	0.009 ppb	667 cps	
166Er (KED)	0.002 ppb	660 cps	
169Tm (KED)	0.001 ppb	187 cps	
174Yb (KED)	0.003 ppb	297 cps	
175Lu (KED)	-0.106 ppb	18,751 cps	
205Tl (KED)	0.003 ppb	607 cps	
208Pb (KED)	0.365 ppb	55,657 cps	
209Bi (KED)	100.679 %	3,585,887 cps	
232Th (KED)	0.022 ppb	6,295 cps	
238U (KED)	0.006 ppb	1,953 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 34

Analysis name: 802024jian

Analysis started at: 10/28/2021 4:36:37 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	117.564 %	
9Be (KED)	0.000 ppb	
11B (KED)	10.972 ppb	
24Mg (KED)	107.694 ppb	
27Al (KED)	167.543 ppb	
45Sc (KED)	109.166 %	
51V (KED)	0.328 ppb	
52Cr (KED)	0.553 ppb	
55Mn (KED)	5.269 ppb	
56Fe (KED)	187.800 ppb	
58Ni (KED)	0.936 ppb	
59Co (KED)	0.093 ppb	
63Cu (KED)	2.048 ppb	
64Zn (KED)	54.276 ppb	
69Ga (KED)	0.595 ppb	
75As (KED)	0.160 ppb	
80Se (KED)	0.120 ppb	
85Rb (KED)	0.661 ppb	
88Sr (KED)	1.431 ppb	
89Y (KED)	105.961 %	
107Ag (KED)	0.011 ppb	
114Cd (KED)	0.022 ppb	
115In (KED)	103.211 %	
133Cs (KED)	0.038 ppb	
138Ba (KED)	2.019 ppb	
139La (KED)	0.167 ppb	
140Ce (KED)	0.359 ppb	
141Pr (KED)	0.040 ppb	
142Nd (KED)	0.215 ppb	
152Sm (KED)	0.028 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.027 ppb	
159Tb (KED)	104.029 %	
164Dy (KED)	0.017 ppb	
166Er (KED)	0.007 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.008 ppb	
175Lu (KED)	-0.103 ppb	
205Tl (KED)	0.005 ppb	
208Pb (KED)	0.304 ppb	
209Bi (KED)	97.430 %	
232Th (KED)	0.046 ppb	
238U (KED)	0.011 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	117.564 %	3,601 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	10.972 ppb	1,650 cps	
24Mg (KED)	107.694 ppb	73,660 cps	
27Al (KED)	167.543 ppb	26,525 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	109.166 %	56,873 cps	
51V (KED)	0.328 ppb	3,310 cps	
52Cr (KED)	0.553 ppb	8,773 cps	
55Mn (KED)	5.269 ppb	41,626 cps	
56Fe (KED)	187.800 ppb	2,698,101 cps	
58Ni (KED)	0.936 ppb	17,589 cps	
59Co (KED)	0.093 ppb	2,900 cps	
63Cu (KED)	2.048 ppb	46,543 cps	
64Zn (KED)	54.276 ppb	259,892 cps	
69Ga (KED)	0.595 ppb	4,401 cps	
75As (KED)	0.160 ppb	250 cps	
80Se (KED)	0.120 ppb	1,297 cps	
85Rb (KED)	0.661 ppb	4,534 cps	
88Sr (KED)	1.431 ppb	13,914 cps	
89Y (KED)	105.961 %	509,717 cps	
107Ag (KED)	0.011 ppb	683 cps	
114Cd (KED)	0.022 ppb	423 cps	
115In (KED)	103.211 %	879,368 cps	
133Cs (KED)	0.038 ppb	1,230 cps	
138Ba (KED)	2.019 ppb	91,363 cps	
139La (KED)	0.167 ppb	16,050 cps	
140Ce (KED)	0.359 ppb	46,363 cps	
141Pr (KED)	0.040 ppb	5,428 cps	
142Nd (KED)	0.215 ppb	11,595 cps	
152Sm (KED)	0.028 ppb	1,377 cps	
153Eu (KED)	0.005 ppb	553 cps	
158Gd (KED)	0.027 ppb	1,830 cps	
159Tb (KED)	104.029 %	4,929,572 cps	
164Dy (KED)	0.017 ppb	1,290 cps	
166Er (KED)	0.007 ppb	1,053 cps	
169Tm (KED)	0.001 ppb	377 cps	
174Yb (KED)	0.008 ppb	807 cps	
175Lu (KED)	-0.103 ppb	19,038 cps	
205Tl (KED)	0.005 ppb	970 cps	
208Pb (KED)	0.304 ppb	45,513 cps	
209Bi (KED)	97.430 %	3,470,165 cps	
232Th (KED)	0.046 ppb	12,550 cps	
238U (KED)	0.011 ppb	3,524 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 35

Analysis name: 801017jian

Analysis started at: 10/28/2021 4:38:31 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.479 %	
9Be (KED)	0.023 ppb	
11B (KED)	11.575 ppb	
24Mg (KED)	98.748 ppb	
27Al (KED)	115.185 ppb	
45Sc (KED)	108.832 %	
51V (KED)	0.236 ppb	
52Cr (KED)	0.574 ppb	
55Mn (KED)	5.309 ppb	
56Fe (KED)	119.985 ppb	
58Ni (KED)	0.671 ppb	
59Co (KED)	0.082 ppb	
63Cu (KED)	2.336 ppb	
64Zn (KED)	50.545 ppb	
69Ga (KED)	0.526 ppb	
75As (KED)	0.119 ppb	
80Se (KED)	0.080 ppb	
85Rb (KED)	0.423 ppb	
88Sr (KED)	1.584 ppb	
89Y (KED)	105.241 %	
107Ag (KED)	0.022 ppb	
114Cd (KED)	0.022 ppb	
115In (KED)	103.005 %	
133Cs (KED)	0.025 ppb	
138Ba (KED)	1.838 ppb	
139La (KED)	0.122 ppb	
140Ce (KED)	0.255 ppb	
141Pr (KED)	0.028 ppb	
142Nd (KED)	0.152 ppb	
152Sm (KED)	0.019 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.018 ppb	
159Tb (KED)	103.758 %	
164Dy (KED)	0.014 ppb	
166Er (KED)	0.004 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.110 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.387 ppb	
209Bi (KED)	96.474 %	
232Th (KED)	0.033 ppb	
238U (KED)	0.009 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.479 %	3,230 cps	
9Be (KED)	0.023 ppb	3 cps	
11B (KED)	11.575 ppb	1,530 cps	
24Mg (KED)	98.748 ppb	60,610 cps	
27Al (KED)	115.185 ppb	18,207 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	108.832 %	56,698 cps	
51V (KED)	0.236 ppb	2,374 cps	
52Cr (KED)	0.574 ppb	9,067 cps	
55Mn (KED)	5.309 ppb	41,813 cps	
56Fe (KED)	119.985 ppb	1,719,331 cps	
58Ni (KED)	0.671 ppb	12,663 cps	
59Co (KED)	0.082 ppb	2,544 cps	
63Cu (KED)	2.336 ppb	52,426 cps	
64Zn (KED)	50.545 ppb	240,523 cps	
69Ga (KED)	0.526 ppb	3,871 cps	
75As (KED)	0.119 ppb	187 cps	
80Se (KED)	0.080 ppb	1,270 cps	
85Rb (KED)	0.423 ppb	2,887 cps	
88Sr (KED)	1.584 ppb	15,293 cps	
89Y (KED)	105.241 %	506,251 cps	
107Ag (KED)	0.022 ppb	1,350 cps	
114Cd (KED)	0.022 ppb	420 cps	
115In (KED)	103.005 %	877,618 cps	
133Cs (KED)	0.025 ppb	817 cps	
138Ba (KED)	1.838 ppb	83,042 cps	
139La (KED)	0.122 ppb	11,699 cps	
140Ce (KED)	0.255 ppb	32,917 cps	
141Pr (KED)	0.028 ppb	3,787 cps	
142Nd (KED)	0.152 ppb	8,183 cps	
152Sm (KED)	0.019 ppb	953 cps	
153Eu (KED)	0.004 ppb	427 cps	
158Gd (KED)	0.018 ppb	1,167 cps	
159Tb (KED)	103.758 %	4,916,745 cps	
164Dy (KED)	0.014 ppb	1,033 cps	
166Er (KED)	0.004 ppb	793 cps	
169Tm (KED)	0.001 ppb	223 cps	
174Yb (KED)	0.005 ppb	547 cps	
175Lu (KED)	-0.110 ppb	17,793 cps	
205Tl (KED)	0.003 ppb	713 cps	
208Pb (KED)	0.387 ppb	56,307 cps	
209Bi (KED)	96.474 %	3,436,142 cps	
232Th (KED)	0.033 ppb	8,887 cps	
238U (KED)	0.009 ppb	3,034 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 36

Analysis name: 80100jian

Analysis started at: 10/28/2021 4:40:24 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	115.387 %	
9Be (KED)	0.083 ppb	
11B (KED)	1.566 ppb	
24Mg (KED)	77.842 ppb	
27Al (KED)	109.092 ppb	
45Sc (KED)	109.320 %	
51V (KED)	0.211 ppb	
52Cr (KED)	0.523 ppb	
55Mn (KED)	3.799 ppb	
56Fe (KED)	148.163 ppb	
58Ni (KED)	1.076 ppb	
59Co (KED)	0.066 ppb	
63Cu (KED)	2.003 ppb	
64Zn (KED)	48.616 ppb	
69Ga (KED)	0.496 ppb	
75As (KED)	0.106 ppb	
80Se (KED)	0.186 ppb	
85Rb (KED)	0.955 ppb	
88Sr (KED)	1.214 ppb	
89Y (KED)	106.304 %	
107Ag (KED)	0.017 ppb	
114Cd (KED)	0.038 ppb	
115In (KED)	104.832 %	
133Cs (KED)	0.022 ppb	
138Ba (KED)	1.631 ppb	
139La (KED)	0.121 ppb	
140Ce (KED)	0.258 ppb	
141Pr (KED)	0.030 ppb	
142Nd (KED)	0.158 ppb	
152Sm (KED)	0.021 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.018 ppb	
159Tb (KED)	105.639 %	
164Dy (KED)	0.013 ppb	
166Er (KED)	0.003 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.105 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.289 ppb	
209Bi (KED)	101.653 %	
232Th (KED)	0.033 ppb	
238U (KED)	0.007 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	115.387 %	3,534 cps	
9Be (KED)	0.083 ppb	13 cps	
11B (KED)	1.566 ppb	773 cps	
24Mg (KED)	77.842 ppb	52,299 cps	
27Al (KED)	109.092 ppb	17,325 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	109.320 %	56,953 cps	
51V (KED)	0.211 ppb	2,130 cps	
52Cr (KED)	0.523 ppb	8,313 cps	
55Mn (KED)	3.799 ppb	30,066 cps	
56Fe (KED)	148.163 ppb	2,132,122 cps	
58Ni (KED)	1.076 ppb	20,200 cps	
59Co (KED)	0.066 ppb	2,067 cps	
63Cu (KED)	2.003 ppb	45,717 cps	
64Zn (KED)	48.616 ppb	233,762 cps	
69Ga (KED)	0.496 ppb	3,684 cps	
75As (KED)	0.106 ppb	170 cps	
80Se (KED)	0.186 ppb	1,330 cps	
85Rb (KED)	0.955 ppb	6,562 cps	
88Sr (KED)	1.214 ppb	11,856 cps	
89Y (KED)	106.304 %	511,365 cps	
107Ag (KED)	0.017 ppb	1,057 cps	
114Cd (KED)	0.038 ppb	737 cps	
115In (KED)	104.832 %	893,183 cps	
133Cs (KED)	0.022 ppb	727 cps	
138Ba (KED)	1.631 ppb	75,092 cps	
139La (KED)	0.121 ppb	11,889 cps	
140Ce (KED)	0.258 ppb	33,916 cps	
141Pr (KED)	0.030 ppb	4,124 cps	
142Nd (KED)	0.158 ppb	8,683 cps	
152Sm (KED)	0.021 ppb	1,027 cps	
153Eu (KED)	0.004 ppb	373 cps	
158Gd (KED)	0.018 ppb	1,203 cps	
159Tb (KED)	105.639 %	5,005,861 cps	
164Dy (KED)	0.013 ppb	977 cps	
166Er (KED)	0.003 ppb	713 cps	
169Tm (KED)	0.001 ppb	203 cps	
174Yb (KED)	0.005 ppb	500 cps	
175Lu (KED)	-0.105 ppb	18,904 cps	
205Tl (KED)	0.003 ppb	590 cps	
208Pb (KED)	0.289 ppb	45,459 cps	
209Bi (KED)	101.653 %	3,620,604 cps	
232Th (KED)	0.033 ppb	9,490 cps	
238U (KED)	0.007 ppb	2,514 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 37

Analysis name: 80154jian

Analysis started at: 10/28/2021 4:42:18 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	113.536 %	
9Be (KED)	0.021 ppb	
11B (KED)	5.095 ppb	
24Mg (KED)	102.374 ppb	
27Al (KED)	169.456 ppb	
45Sc (KED)	108.658 %	
51V (KED)	0.349 ppb	
52Cr (KED)	2.360 ppb	
55Mn (KED)	5.547 ppb	
56Fe (KED)	194.499 ppb	
58Ni (KED)	1.018 ppb	
59Co (KED)	0.090 ppb	
63Cu (KED)	2.304 ppb	
64Zn (KED)	54.246 ppb	
69Ga (KED)	0.590 ppb	
75As (KED)	0.092 ppb	
80Se (KED)	0.158 ppb	
85Rb (KED)	0.829 ppb	
88Sr (KED)	1.224 ppb	
89Y (KED)	109.430 %	
107Ag (KED)	0.014 ppb	
114Cd (KED)	0.040 ppb	
115In (KED)	106.898 %	
133Cs (KED)	0.030 ppb	
138Ba (KED)	2.117 ppb	
139La (KED)	0.147 ppb	
140Ce (KED)	0.309 ppb	
141Pr (KED)	0.035 ppb	
142Nd (KED)	0.189 ppb	
152Sm (KED)	0.026 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.023 ppb	
159Tb (KED)	106.704 %	
164Dy (KED)	0.017 ppb	
166Er (KED)	0.005 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.106 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.342 ppb	
209Bi (KED)	100.255 %	
232Th (KED)	0.051 ppb	
238U (KED)	0.010 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	113.536 %	3,477 cps	
9Be (KED)	0.021 ppb	3 cps	
11B (KED)	5.095 ppb	1,073 cps	
24Mg (KED)	102.374 ppb	67,629 cps	
27Al (KED)	169.456 ppb	26,702 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	108.658 %	56,608 cps	
51V (KED)	0.349 ppb	3,504 cps	
52Cr (KED)	2.360 ppb	37,078 cps	
55Mn (KED)	5.547 ppb	43,616 cps	
56Fe (KED)	194.499 ppb	2,781,274 cps	
58Ni (KED)	1.018 ppb	19,014 cps	
59Co (KED)	0.090 ppb	2,774 cps	
63Cu (KED)	2.304 ppb	53,802 cps	
64Zn (KED)	54.246 ppb	268,252 cps	
69Ga (KED)	0.590 ppb	4,507 cps	
75As (KED)	0.092 ppb	153 cps	
80Se (KED)	0.158 ppb	1,357 cps	
85Rb (KED)	0.829 ppb	5,865 cps	
88Sr (KED)	1.224 ppb	12,306 cps	
89Y (KED)	109.430 %	526,406 cps	
107Ag (KED)	0.014 ppb	903 cps	
114Cd (KED)	0.040 ppb	790 cps	
115In (KED)	106.898 %	910,782 cps	
133Cs (KED)	0.030 ppb	1,003 cps	
138Ba (KED)	2.117 ppb	98,248 cps	
139La (KED)	0.147 ppb	14,498 cps	
140Ce (KED)	0.309 ppb	40,977 cps	
141Pr (KED)	0.035 ppb	4,808 cps	
142Nd (KED)	0.189 ppb	10,494 cps	
152Sm (KED)	0.026 ppb	1,320 cps	
153Eu (KED)	0.005 ppb	550 cps	
158Gd (KED)	0.023 ppb	1,600 cps	
159Tb (KED)	106.704 %	5,056,328 cps	
164Dy (KED)	0.017 ppb	1,297 cps	
166Er (KED)	0.005 ppb	893 cps	
169Tm (KED)	0.001 ppb	277 cps	
174Yb (KED)	0.006 ppb	697 cps	
175Lu (KED)	-0.106 ppb	18,904 cps	
205Tl (KED)	0.004 ppb	743 cps	
208Pb (KED)	0.342 ppb	52,263 cps	
209Bi (KED)	100.255 %	3,570,801 cps	
232Th (KED)	0.051 ppb	14,272 cps	
238U (KED)	0.010 ppb	3,394 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 38

Analysis name: 80142jian

Analysis started at: 10/28/2021 4:44:09 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	109.399 %	
9Be (KED)	0.022 ppb	
11B (KED)	6.726 ppb	
24Mg (KED)	68.211 ppb	
27Al (KED)	100.256 ppb	
45Sc (KED)	108.709 %	
51V (KED)	0.197 ppb	
52Cr (KED)	2.692 ppb	
55Mn (KED)	3.494 ppb	
56Fe (KED)	163.636 ppb	
58Ni (KED)	1.240 ppb	
59Co (KED)	0.062 ppb	
63Cu (KED)	2.629 ppb	
64Zn (KED)	52.395 ppb	
69Ga (KED)	0.471 ppb	
75As (KED)	0.087 ppb	
80Se (KED)	0.226 ppb	
85Rb (KED)	0.562 ppb	
88Sr (KED)	1.037 ppb	
89Y (KED)	105.690 %	
107Ag (KED)	0.016 ppb	
114Cd (KED)	0.038 ppb	
115In (KED)	103.966 %	
133Cs (KED)	0.017 ppb	
138Ba (KED)	1.563 ppb	
139La (KED)	0.104 ppb	
140Ce (KED)	0.219 ppb	
141Pr (KED)	0.024 ppb	
142Nd (KED)	0.135 ppb	
152Sm (KED)	0.017 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.014 ppb	
159Tb (KED)	105.259 %	
164Dy (KED)	0.010 ppb	
166Er (KED)	0.002 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.109 ppb	
205Tl (KED)	0.002 ppb	
208Pb (KED)	0.311 ppb	
209Bi (KED)	100.890 %	
232Th (KED)	0.028 ppb	
238U (KED)	0.007 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	109.399 %	3,350 cps	
9Be (KED)	0.022 ppb	3 cps	
11B (KED)	6.726 ppb	1,173 cps	
24Mg (KED)	68.211 ppb	43,469 cps	
27Al (KED)	100.256 ppb	15,840 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	108.709 %	56,635 cps	
51V (KED)	0.197 ppb	1,977 cps	
52Cr (KED)	2.692 ppb	42,305 cps	
55Mn (KED)	3.494 ppb	27,504 cps	
56Fe (KED)	163.636 ppb	2,341,390 cps	
58Ni (KED)	1.240 ppb	23,101 cps	
59Co (KED)	0.062 ppb	1,933 cps	
63Cu (KED)	2.629 ppb	58,982 cps	
64Zn (KED)	52.395 ppb	250,314 cps	
69Ga (KED)	0.471 ppb	3,484 cps	
75As (KED)	0.087 ppb	140 cps	
80Se (KED)	0.226 ppb	1,340 cps	
85Rb (KED)	0.562 ppb	3,847 cps	
88Sr (KED)	1.037 ppb	10,084 cps	
89Y (KED)	105.690 %	508,414 cps	
107Ag (KED)	0.016 ppb	1,007 cps	
114Cd (KED)	0.038 ppb	730 cps	
115In (KED)	103.966 %	885,800 cps	
133Cs (KED)	0.017 ppb	557 cps	
138Ba (KED)	1.563 ppb	71,752 cps	
139La (KED)	0.104 ppb	10,137 cps	
140Ce (KED)	0.219 ppb	28,713 cps	
141Pr (KED)	0.024 ppb	3,297 cps	
142Nd (KED)	0.135 ppb	7,376 cps	
152Sm (KED)	0.017 ppb	853 cps	
153Eu (KED)	0.003 ppb	330 cps	
158Gd (KED)	0.014 ppb	977 cps	
159Tb (KED)	105.259 %	4,987,881 cps	
164Dy (KED)	0.010 ppb	780 cps	
166Er (KED)	0.002 ppb	620 cps	
169Tm (KED)	0.001 ppb	170 cps	
174Yb (KED)	0.005 ppb	510 cps	
175Lu (KED)	-0.109 ppb	18,103 cps	
205Tl (KED)	0.002 ppb	533 cps	
208Pb (KED)	0.311 ppb	48,173 cps	
209Bi (KED)	100.890 %	3,593,397 cps	
232Th (KED)	0.028 ppb	7,946 cps	
238U (KED)	0.007 ppb	2,534 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 39

Analysis name: 701032jian

Analysis started at: 10/28/2021 4:46:01 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.992 %	
9Be (KED)	0.000 ppb	
11B (KED)	2.618 ppb	
24Mg (KED)	70.426 ppb	
27Al (KED)	140.990 ppb	
45Sc (KED)	110.008 %	
51V (KED)	0.264 ppb	
52Cr (KED)	2.058 ppb	
55Mn (KED)	3.759 ppb	
56Fe (KED)	148.945 ppb	
58Ni (KED)	1.012 ppb	
59Co (KED)	0.067 ppb	
63Cu (KED)	4.191 ppb	
64Zn (KED)	53.765 ppb	
69Ga (KED)	0.506 ppb	
75As (KED)	0.113 ppb	
80Se (KED)	0.261 ppb	
85Rb (KED)	0.588 ppb	
88Sr (KED)	0.952 ppb	
89Y (KED)	106.278 %	
107Ag (KED)	0.010 ppb	
114Cd (KED)	0.082 ppb	
115In (KED)	105.609 %	
133Cs (KED)	0.024 ppb	
138Ba (KED)	1.774 ppb	
139La (KED)	0.118 ppb	
140Ce (KED)	0.258 ppb	
141Pr (KED)	0.030 ppb	
142Nd (KED)	0.156 ppb	
152Sm (KED)	0.022 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.017 ppb	
159Tb (KED)	105.296 %	
164Dy (KED)	0.011 ppb	
166Er (KED)	0.003 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.115 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.844 ppb	
209Bi (KED)	98.744 %	
232Th (KED)	0.033 ppb	
238U (KED)	0.008 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.992 %	3,460 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	2.618 ppb	850 cps	
24Mg (KED)	70.426 ppb	46,349 cps	
27Al (KED)	140.990 ppb	22,507 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	110.008 %	57,311 cps	
51V (KED)	0.264 ppb	2,684 cps	
52Cr (KED)	2.058 ppb	32,740 cps	
55Mn (KED)	3.759 ppb	29,943 cps	
56Fe (KED)	148.945 ppb	2,156,847 cps	
58Ni (KED)	1.012 ppb	19,148 cps	
59Co (KED)	0.067 ppb	2,114 cps	
63Cu (KED)	4.191 ppb	93,277 cps	
64Zn (KED)	53.765 ppb	258,234 cps	
69Ga (KED)	0.506 ppb	3,761 cps	
75As (KED)	0.113 ppb	180 cps	
80Se (KED)	0.261 ppb	1,363 cps	
85Rb (KED)	0.588 ppb	4,047 cps	
88Sr (KED)	0.952 ppb	9,313 cps	
89Y (KED)	106.278 %	511,240 cps	
107Ag (KED)	0.010 ppb	653 cps	
114Cd (KED)	0.082 ppb	1,577 cps	
115In (KED)	105.609 %	899,797 cps	
133Cs (KED)	0.024 ppb	800 cps	
138Ba (KED)	1.774 ppb	81,354 cps	
139La (KED)	0.118 ppb	11,545 cps	
140Ce (KED)	0.258 ppb	33,749 cps	
141Pr (KED)	0.030 ppb	4,041 cps	
142Nd (KED)	0.156 ppb	8,546 cps	
152Sm (KED)	0.022 ppb	1,083 cps	
153Eu (KED)	0.004 ppb	397 cps	
158Gd (KED)	0.017 ppb	1,160 cps	
159Tb (KED)	105.296 %	4,989,617 cps	
164Dy (KED)	0.011 ppb	857 cps	
166Er (KED)	0.003 ppb	707 cps	
169Tm (KED)	0.001 ppb	233 cps	
174Yb (KED)	0.005 ppb	507 cps	
175Lu (KED)	-0.115 ppb	17,122 cps	
205Tl (KED)	0.003 ppb	653 cps	
208Pb (KED)	0.844 ppb	120,977 cps	
209Bi (KED)	98.744 %	3,516,969 cps	
232Th (KED)	0.033 ppb	9,117 cps	
238U (KED)	0.008 ppb	2,810 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 40

Analysis name: 80037jian

Analysis started at: 10/28/2021 4:47:54 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.875 %	
9Be (KED)	0.022 ppb	
11B (KED)	6.960 ppb	
24Mg (KED)	105.811 ppb	
27Al (KED)	127.033 ppb	
45Sc (KED)	111.107 %	
51V (KED)	0.267 ppb	
52Cr (KED)	1.443 ppb	
55Mn (KED)	5.184 ppb	
56Fe (KED)	165.317 ppb	
58Ni (KED)	1.138 ppb	
59Co (KED)	0.089 ppb	
63Cu (KED)	3.565 ppb	
64Zn (KED)	60.042 ppb	
69Ga (KED)	0.581 ppb	
75As (KED)	0.236 ppb	
80Se (KED)	0.162 ppb	
85Rb (KED)	0.587 ppb	
88Sr (KED)	1.594 ppb	
89Y (KED)	106.080 %	
107Ag (KED)	0.013 ppb	
114Cd (KED)	0.054 ppb	
115In (KED)	104.139 %	
133Cs (KED)	0.027 ppb	
138Ba (KED)	1.982 ppb	
139La (KED)	0.139 ppb	
140Ce (KED)	0.280 ppb	
141Pr (KED)	0.034 ppb	
142Nd (KED)	0.180 ppb	
152Sm (KED)	0.024 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.022 ppb	
159Tb (KED)	106.421 %	
164Dy (KED)	0.015 ppb	
166Er (KED)	0.005 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.113 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.665 ppb	
209Bi (KED)	97.829 %	
232Th (KED)	0.040 ppb	
238U (KED)	0.011 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.875 %	3,304 cps	
9Be (KED)	0.022 ppb	3 cps	
11B (KED)	6.960 ppb	1,177 cps	
24Mg (KED)	105.811 ppb	66,409 cps	
27Al (KED)	127.033 ppb	20,490 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	111.107 %	57,884 cps	
51V (KED)	0.267 ppb	2,737 cps	
52Cr (KED)	1.443 ppb	23,205 cps	
55Mn (KED)	5.184 ppb	41,686 cps	
56Fe (KED)	165.317 ppb	2,417,607 cps	
58Ni (KED)	1.138 ppb	21,702 cps	
59Co (KED)	0.089 ppb	2,814 cps	
63Cu (KED)	3.565 ppb	79,512 cps	
64Zn (KED)	60.042 ppb	287,595 cps	
69Ga (KED)	0.581 ppb	4,301 cps	
75As (KED)	0.236 ppb	363 cps	
80Se (KED)	0.162 ppb	1,317 cps	
85Rb (KED)	0.587 ppb	4,031 cps	
88Sr (KED)	1.594 ppb	15,503 cps	
89Y (KED)	106.080 %	510,288 cps	
107Ag (KED)	0.013 ppb	817 cps	
114Cd (KED)	0.054 ppb	1,033 cps	
115In (KED)	104.139 %	887,274 cps	
133Cs (KED)	0.027 ppb	890 cps	
138Ba (KED)	1.982 ppb	91,773 cps	
139La (KED)	0.139 ppb	13,704 cps	
140Ce (KED)	0.280 ppb	37,022 cps	
141Pr (KED)	0.034 ppb	4,734 cps	
142Nd (KED)	0.180 ppb	9,937 cps	
152Sm (KED)	0.024 ppb	1,200 cps	
153Eu (KED)	0.004 ppb	420 cps	
158Gd (KED)	0.022 ppb	1,533 cps	
159Tb (KED)	106.421 %	5,042,941 cps	
164Dy (KED)	0.015 ppb	1,133 cps	
166Er (KED)	0.005 ppb	930 cps	
169Tm (KED)	0.001 ppb	257 cps	
174Yb (KED)	0.005 ppb	583 cps	
175Lu (KED)	-0.113 ppb	17,683 cps	
205Tl (KED)	0.003 ppb	707 cps	
208Pb (KED)	0.665 ppb	95,195 cps	
209Bi (KED)	97.829 %	3,484,390 cps	
232Th (KED)	0.040 ppb	10,938 cps	
238U (KED)	0.011 ppb	3,497 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 41

Analysis name: 801081jian

Analysis started at: 10/28/2021 4:49:55 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.112 %	
9Be (KED)	0.022 ppb	
11B (KED)	3.946 ppb	
24Mg (KED)	132.866 ppb	
27Al (KED)	232.008 ppb	
45Sc (KED)	110.477 %	
51V (KED)	0.483 ppb	
52Cr (KED)	1.295 ppb	
55Mn (KED)	6.693 ppb	
56Fe (KED)	302.771 ppb	
58Ni (KED)	1.825 ppb	
59Co (KED)	0.119 ppb	
63Cu (KED)	3.270 ppb	
64Zn (KED)	56.877 ppb	
69Ga (KED)	0.789 ppb	
75As (KED)	0.140 ppb	
80Se (KED)	-0.017 ppb	
85Rb (KED)	0.764 ppb	
88Sr (KED)	1.664 ppb	
89Y (KED)	107.736 %	
107Ag (KED)	0.030 ppb	
114Cd (KED)	0.060 ppb	
115In (KED)	106.262 %	
133Cs (KED)	0.043 ppb	
138Ba (KED)	2.650 ppb	
139La (KED)	0.230 ppb	
140Ce (KED)	0.487 ppb	
141Pr (KED)	0.055 ppb	
142Nd (KED)	0.284 ppb	
152Sm (KED)	0.039 ppb	
153Eu (KED)	0.008 ppb	
158Gd (KED)	0.035 ppb	
159Tb (KED)	106.164 %	
164Dy (KED)	0.026 ppb	
166Er (KED)	0.010 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.010 ppb	
175Lu (KED)	-0.108 ppb	
205Tl (KED)	0.005 ppb	
208Pb (KED)	0.726 ppb	
209Bi (KED)	98.828 %	
232Th (KED)	0.068 ppb	
238U (KED)	0.016 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.112 %	3,280 cps	
9Be (KED)	0.022 ppb	3 cps	
11B (KED)	3.946 ppb	917 cps	
24Mg (KED)	132.866 ppb	82,763 cps	
27Al (KED)	232.008 ppb	37,139 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	110.477 %	57,556 cps	
51V (KED)	0.483 ppb	4,928 cps	
52Cr (KED)	1.295 ppb	20,707 cps	
55Mn (KED)	6.693 ppb	53,498 cps	
56Fe (KED)	302.771 ppb	4,400,769 cps	
58Ni (KED)	1.825 ppb	34,411 cps	
59Co (KED)	0.119 ppb	3,741 cps	
63Cu (KED)	3.270 ppb	74,263 cps	
64Zn (KED)	56.877 ppb	276,804 cps	
69Ga (KED)	0.789 ppb	5,921 cps	
75As (KED)	0.140 ppb	223 cps	
80Se (KED)	-0.017 ppb	1,257 cps	
85Rb (KED)	0.764 ppb	5,324 cps	
88Sr (KED)	1.664 ppb	16,437 cps	
89Y (KED)	107.736 %	518,255 cps	
107Ag (KED)	0.030 ppb	1,850 cps	
114Cd (KED)	0.060 ppb	1,167 cps	
115In (KED)	106.262 %	905,362 cps	
133Cs (KED)	0.043 ppb	1,410 cps	
138Ba (KED)	2.650 ppb	122,192 cps	
139La (KED)	0.230 ppb	22,597 cps	
140Ce (KED)	0.487 ppb	64,215 cps	
141Pr (KED)	0.055 ppb	7,566 cps	
142Nd (KED)	0.284 ppb	15,650 cps	
152Sm (KED)	0.039 ppb	1,967 cps	
153Eu (KED)	0.008 ppb	837 cps	
158Gd (KED)	0.035 ppb	2,384 cps	
159Tb (KED)	106.164 %	5,030,730 cps	
164Dy (KED)	0.026 ppb	1,990 cps	
166Er (KED)	0.010 ppb	1,340 cps	
169Tm (KED)	0.002 ppb	467 cps	
174Yb (KED)	0.010 ppb	1,067 cps	
175Lu (KED)	-0.108 ppb	18,441 cps	
205Tl (KED)	0.005 ppb	1,067 cps	
208Pb (KED)	0.726 ppb	104,644 cps	
209Bi (KED)	98.828 %	3,519,978 cps	
232Th (KED)	0.068 ppb	18,771 cps	
238U (KED)	0.016 ppb	5,271 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 42

Analysis name: 80161jian

Analysis started at: 10/28/2021 4:51:46 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	115.713 %	
9Be (KED)	0.000 ppb	
11B (KED)	-0.639 ppb	
24Mg (KED)	69.984 ppb	
27Al (KED)	93.347 ppb	
45Sc (KED)	111.126 %	
51V (KED)	0.170 ppb	
52Cr (KED)	0.768 ppb	
55Mn (KED)	2.894 ppb	
56Fe (KED)	89.359 ppb	
58Ni (KED)	0.718 ppb	
59Co (KED)	0.050 ppb	
63Cu (KED)	2.031 ppb	
64Zn (KED)	51.356 ppb	
69Ga (KED)	0.419 ppb	
75As (KED)	0.060 ppb	
80Se (KED)	0.075 ppb	
85Rb (KED)	0.573 ppb	
88Sr (KED)	0.901 ppb	
89Y (KED)	105.416 %	
107Ag (KED)	0.015 ppb	
114Cd (KED)	0.035 ppb	
115In (KED)	106.194 %	
133Cs (KED)	0.016 ppb	
138Ba (KED)	1.361 ppb	
139La (KED)	0.080 ppb	
140Ce (KED)	0.169 ppb	
141Pr (KED)	0.019 ppb	
142Nd (KED)	0.103 ppb	
152Sm (KED)	0.014 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.012 ppb	
159Tb (KED)	105.473 %	
164Dy (KED)	0.007 ppb	
166Er (KED)	0.001 ppb	
169Tm (KED)	0.000 ppb	
174Yb (KED)	0.003 ppb	
175Lu (KED)	-0.106 ppb	
205Tl (KED)	0.002 ppb	
208Pb (KED)	0.305 ppb	
209Bi (KED)	100.630 %	
232Th (KED)	0.023 ppb	
238U (KED)	0.006 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	115.713 %	3,544 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-0.639 ppb	577 cps	
24Mg (KED)	69.984 ppb	47,169 cps	
27Al (KED)	93.347 ppb	15,082 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	111.126 %	57,894 cps	
51V (KED)	0.170 ppb	1,750 cps	
52Cr (KED)	0.768 ppb	12,379 cps	
55Mn (KED)	2.894 ppb	23,298 cps	
56Fe (KED)	89.359 ppb	1,308,049 cps	
58Ni (KED)	0.718 ppb	13,808 cps	
59Co (KED)	0.050 ppb	1,597 cps	
63Cu (KED)	2.031 ppb	45,934 cps	
64Zn (KED)	51.356 ppb	244,754 cps	
69Ga (KED)	0.419 ppb	3,094 cps	
75As (KED)	0.060 ppb	100 cps	
80Se (KED)	0.075 ppb	1,270 cps	
85Rb (KED)	0.573 ppb	3,911 cps	
88Sr (KED)	0.901 ppb	8,750 cps	
89Y (KED)	105.416 %	507,094 cps	
107Ag (KED)	0.015 ppb	953 cps	
114Cd (KED)	0.035 ppb	697 cps	
115In (KED)	106.194 %	904,781 cps	
133Cs (KED)	0.016 ppb	527 cps	
138Ba (KED)	1.361 ppb	62,660 cps	
139La (KED)	0.080 ppb	7,802 cps	
140Ce (KED)	0.169 ppb	22,183 cps	
141Pr (KED)	0.019 ppb	2,544 cps	
142Nd (KED)	0.103 ppb	5,625 cps	
152Sm (KED)	0.014 ppb	693 cps	
153Eu (KED)	0.003 ppb	277 cps	
158Gd (KED)	0.012 ppb	843 cps	
159Tb (KED)	105.473 %	4,998,019 cps	
164Dy (KED)	0.007 ppb	577 cps	
166Er (KED)	0.001 ppb	573 cps	
169Tm (KED)	0.000 ppb	157 cps	
174Yb (KED)	0.003 ppb	350 cps	
175Lu (KED)	-0.106 ppb	18,734 cps	
205Tl (KED)	0.002 ppb	447 cps	
208Pb (KED)	0.305 ppb	47,266 cps	
209Bi (KED)	100.630 %	3,584,147 cps	
232Th (KED)	0.023 ppb	6,398 cps	
238U (KED)	0.006 ppb	1,990 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 43

Analysis name: 605134jian

Analysis started at: 10/28/2021 4:53:35 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.548 %	
9Be (KED)	0.000 ppb	
11B (KED)	13.205 ppb	
24Mg (KED)	98.362 ppb	
27Al (KED)	180.845 ppb	
45Sc (KED)	107.990 %	
51V (KED)	0.277 ppb	
52Cr (KED)	0.786 ppb	
55Mn (KED)	5.499 ppb	
56Fe (KED)	168.736 ppb	
58Ni (KED)	1.072 ppb	
59Co (KED)	0.089 ppb	
63Cu (KED)	2.962 ppb	
64Zn (KED)	57.345 ppb	
69Ga (KED)	0.609 ppb	
75As (KED)	0.325 ppb	
80Se (KED)	0.349 ppb	
85Rb (KED)	0.432 ppb	
88Sr (KED)	1.461 ppb	
89Y (KED)	103.582 %	
107Ag (KED)	0.036 ppb	
114Cd (KED)	0.036 ppb	
115In (KED)	101.658 %	
133Cs (KED)	0.030 ppb	
138Ba (KED)	1.974 ppb	
139La (KED)	0.151 ppb	
140Ce (KED)	0.316 ppb	
141Pr (KED)	0.036 ppb	
142Nd (KED)	0.208 ppb	
152Sm (KED)	0.025 ppb	
153Eu (KED)	0.006 ppb	
158Gd (KED)	0.023 ppb	
159Tb (KED)	103.918 %	
164Dy (KED)	0.016 ppb	
166Er (KED)	0.004 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.108 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.530 ppb	
209Bi (KED)	98.297 %	
232Th (KED)	0.045 ppb	
238U (KED)	0.012 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.548 %	3,294 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	13.205 ppb	1,697 cps	
24Mg (KED)	98.362 ppb	61,558 cps	
27Al (KED)	180.845 ppb	28,315 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	107.990 %	56,260 cps	
51V (KED)	0.277 ppb	2,760 cps	
52Cr (KED)	0.786 ppb	12,306 cps	
55Mn (KED)	5.499 ppb	42,974 cps	
56Fe (KED)	168.736 ppb	2,398,320 cps	
58Ni (KED)	1.072 ppb	19,886 cps	
59Co (KED)	0.089 ppb	2,737 cps	
63Cu (KED)	2.962 ppb	64,861 cps	
64Zn (KED)	57.345 ppb	268,302 cps	
69Ga (KED)	0.609 ppb	4,401 cps	
75As (KED)	0.325 ppb	483 cps	
80Se (KED)	0.349 ppb	1,367 cps	
85Rb (KED)	0.432 ppb	2,900 cps	
88Sr (KED)	1.461 ppb	13,888 cps	
89Y (KED)	103.582 %	498,275 cps	
107Ag (KED)	0.036 ppb	2,114 cps	
114Cd (KED)	0.036 ppb	683 cps	
115In (KED)	101.658 %	866,138 cps	
133Cs (KED)	0.030 ppb	947 cps	
138Ba (KED)	1.974 ppb	89,275 cps	
139La (KED)	0.151 ppb	14,535 cps	
140Ce (KED)	0.316 ppb	40,887 cps	
141Pr (KED)	0.036 ppb	4,908 cps	
142Nd (KED)	0.208 ppb	11,242 cps	
152Sm (KED)	0.025 ppb	1,230 cps	
153Eu (KED)	0.006 ppb	573 cps	
158Gd (KED)	0.023 ppb	1,527 cps	
159Tb (KED)	103.918 %	4,924,306 cps	
164Dy (KED)	0.016 ppb	1,200 cps	
166Er (KED)	0.004 ppb	857 cps	
169Tm (KED)	0.001 ppb	307 cps	
174Yb (KED)	0.006 ppb	660 cps	
175Lu (KED)	-0.108 ppb	18,020 cps	
205Tl (KED)	0.004 ppb	753 cps	
208Pb (KED)	0.530 ppb	77,057 cps	
209Bi (KED)	98.297 %	3,501,062 cps	
232Th (KED)	0.045 ppb	12,473 cps	
238U (KED)	0.012 ppb	4,021 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 44

Analysis name: 605271jian

Analysis started at: 10/28/2021 4:55:29 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.439 %	
9Be (KED)	0.000 ppb	
11B (KED)	2.878 ppb	
24Mg (KED)	86.043 ppb	
27Al (KED)	138.426 ppb	
45Sc (KED)	110.143 %	
51V (KED)	0.239 ppb	
52Cr (KED)	0.750 ppb	
55Mn (KED)	4.505 ppb	
56Fe (KED)	143.556 ppb	
58Ni (KED)	1.000 ppb	
59Co (KED)	0.071 ppb	
63Cu (KED)	2.237 ppb	
64Zn (KED)	52.680 ppb	
69Ga (KED)	0.474 ppb	
75As (KED)	0.123 ppb	
80Se (KED)	0.466 ppb	
85Rb (KED)	0.324 ppb	
88Sr (KED)	1.064 ppb	
89Y (KED)	108.875 %	
107Ag (KED)	0.010 ppb	
114Cd (KED)	0.041 ppb	
115In (KED)	105.961 %	
133Cs (KED)	0.025 ppb	
138Ba (KED)	1.615 ppb	
139La (KED)	0.122 ppb	
140Ce (KED)	0.258 ppb	
141Pr (KED)	0.030 ppb	
142Nd (KED)	0.160 ppb	
152Sm (KED)	0.022 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.019 ppb	
159Tb (KED)	106.933 %	
164Dy (KED)	0.013 ppb	
166Er (KED)	0.004 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.115 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.434 ppb	
209Bi (KED)	99.213 %	
232Th (KED)	0.037 ppb	
238U (KED)	0.009 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.439 %	3,290 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	2.878 ppb	830 cps	
24Mg (KED)	86.043 ppb	53,812 cps	
27Al (KED)	138.426 ppb	22,126 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	110.143 %	57,381 cps	
51V (KED)	0.239 ppb	2,434 cps	
52Cr (KED)	0.750 ppb	11,986 cps	
55Mn (KED)	4.505 ppb	35,912 cps	
56Fe (KED)	143.556 ppb	2,081,437 cps	
58Ni (KED)	1.000 ppb	18,941 cps	
59Co (KED)	0.071 ppb	2,224 cps	
63Cu (KED)	2.237 ppb	52,038 cps	
64Zn (KED)	52.680 ppb	259,248 cps	
69Ga (KED)	0.474 ppb	3,607 cps	
75As (KED)	0.123 ppb	200 cps	
80Se (KED)	0.466 ppb	1,490 cps	
85Rb (KED)	0.324 ppb	2,290 cps	
88Sr (KED)	1.064 ppb	10,651 cps	
89Y (KED)	108.875 %	523,736 cps	
107Ag (KED)	0.010 ppb	670 cps	
114Cd (KED)	0.041 ppb	800 cps	
115In (KED)	105.961 %	902,801 cps	
133Cs (KED)	0.025 ppb	813 cps	
138Ba (KED)	1.615 ppb	75,270 cps	
139La (KED)	0.122 ppb	12,123 cps	
140Ce (KED)	0.258 ppb	34,274 cps	
141Pr (KED)	0.030 ppb	4,117 cps	
142Nd (KED)	0.160 ppb	8,870 cps	
152Sm (KED)	0.022 ppb	1,120 cps	
153Eu (KED)	0.004 ppb	460 cps	
158Gd (KED)	0.019 ppb	1,280 cps	
159Tb (KED)	106.933 %	5,067,195 cps	
164Dy (KED)	0.013 ppb	997 cps	
166Er (KED)	0.004 ppb	860 cps	
169Tm (KED)	0.001 ppb	247 cps	
174Yb (KED)	0.005 ppb	573 cps	
175Lu (KED)	-0.115 ppb	17,349 cps	
205Tl (KED)	0.004 ppb	833 cps	
208Pb (KED)	0.434 ppb	64,476 cps	
209Bi (KED)	99.213 %	3,533,696 cps	
232Th (KED)	0.037 ppb	10,184 cps	
238U (KED)	0.009 ppb	3,150 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 45

Analysis name: 80144jian

Analysis started at: 10/28/2021 4:57:23 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.201 %	
9Be (KED)	0.000 ppb	
11B (KED)	1.504 ppb	
24Mg (KED)	85.313 ppb	
27Al (KED)	122.167 ppb	
45Sc (KED)	107.495 %	
51V (KED)	0.266 ppb	
52Cr (KED)	1.029 ppb	
55Mn (KED)	4.359 ppb	
56Fe (KED)	148.045 ppb	
58Ni (KED)	1.021 ppb	
59Co (KED)	0.069 ppb	
63Cu (KED)	3.044 ppb	
64Zn (KED)	51.242 ppb	
69Ga (KED)	0.523 ppb	
75As (KED)	0.130 ppb	
80Se (KED)	0.256 ppb	
85Rb (KED)	0.601 ppb	
88Sr (KED)	1.203 ppb	
89Y (KED)	105.160 %	
107Ag (KED)	0.026 ppb	
114Cd (KED)	0.050 ppb	
115In (KED)	101.452 %	
133Cs (KED)	0.023 ppb	
138Ba (KED)	1.737 ppb	
139La (KED)	0.122 ppb	
140Ce (KED)	0.251 ppb	
141Pr (KED)	0.028 ppb	
142Nd (KED)	0.167 ppb	
152Sm (KED)	0.019 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.021 ppb	
159Tb (KED)	103.730 %	
164Dy (KED)	0.011 ppb	
166Er (KED)	0.002 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.110 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.488 ppb	
209Bi (KED)	97.265 %	
232Th (KED)	0.032 ppb	
238U (KED)	0.009 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.201 %	3,314 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	1.504 ppb	720 cps	
24Mg (KED)	85.313 ppb	53,735 cps	
27Al (KED)	122.167 ppb	19,068 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	107.495 %	56,002 cps	
51V (KED)	0.266 ppb	2,644 cps	
52Cr (KED)	1.029 ppb	16,027 cps	
55Mn (KED)	4.359 ppb	33,916 cps	
56Fe (KED)	148.045 ppb	2,094,849 cps	
58Ni (KED)	1.021 ppb	18,861 cps	
59Co (KED)	0.069 ppb	2,100 cps	
63Cu (KED)	3.044 ppb	67,623 cps	
64Zn (KED)	51.242 ppb	243,626 cps	
69Ga (KED)	0.523 ppb	3,841 cps	
75As (KED)	0.130 ppb	203 cps	
80Se (KED)	0.256 ppb	1,347 cps	
85Rb (KED)	0.601 ppb	4,091 cps	
88Sr (KED)	1.203 ppb	11,622 cps	
89Y (KED)	105.160 %	505,864 cps	
107Ag (KED)	0.026 ppb	1,557 cps	
114Cd (KED)	0.050 ppb	930 cps	
115In (KED)	101.452 %	864,382 cps	
133Cs (KED)	0.023 ppb	737 cps	
138Ba (KED)	1.737 ppb	78,483 cps	
139La (KED)	0.122 ppb	11,726 cps	
140Ce (KED)	0.251 ppb	32,402 cps	
141Pr (KED)	0.028 ppb	3,694 cps	
142Nd (KED)	0.167 ppb	8,980 cps	
152Sm (KED)	0.019 ppb	953 cps	
153Eu (KED)	0.005 ppb	453 cps	
158Gd (KED)	0.021 ppb	1,417 cps	
159Tb (KED)	103.730 %	4,915,400 cps	
164Dy (KED)	0.011 ppb	867 cps	
166Er (KED)	0.002 ppb	677 cps	
169Tm (KED)	0.001 ppb	277 cps	
174Yb (KED)	0.005 ppb	557 cps	
175Lu (KED)	-0.110 ppb	17,729 cps	
205Tl (KED)	0.003 ppb	620 cps	
208Pb (KED)	0.488 ppb	70,613 cps	
209Bi (KED)	97.265 %	3,464,287 cps	
232Th (KED)	0.032 ppb	8,776 cps	
238U (KED)	0.009 ppb	3,007 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 46

Analysis name: 80076jian

Analysis started at: 10/28/2021 4:59:15 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	55.403 %	
9Be (KED)	0.043 ppb	
11B (KED)	6.243 ppb	
24Mg (KED)	130.842 ppb	
27Al (KED)	183.219 ppb	
45Sc (KED)	55.396 %	
51V (KED)	0.336 ppb	
52Cr (KED)	1.381 ppb	
55Mn (KED)	6.647 ppb	
56Fe (KED)	181.409 ppb	
58Ni (KED)	1.428 ppb	
59Co (KED)	0.110 ppb	
63Cu (KED)	4.203 ppb	
64Zn (KED)	106.472 ppb	
69Ga (KED)	0.807 ppb	
75As (KED)	0.215 ppb	
80Se (KED)	3.958 ppb	
85Rb (KED)	1.282 ppb	
88Sr (KED)	1.861 ppb	
89Y (KED)	52.180 %	
107Ag (KED)	0.060 ppb	
114Cd (KED)	0.069 ppb	
115In (KED)	53.518 %	
133Cs (KED)	0.029 ppb	
138Ba (KED)	2.852 ppb	
139La (KED)	0.175 ppb	
140Ce (KED)	0.357 ppb	
141Pr (KED)	0.044 ppb	
142Nd (KED)	0.221 ppb	
152Sm (KED)	0.033 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.028 ppb	
159Tb (KED)	49.137 %	
164Dy (KED)	0.017 ppb	
166Er (KED)	0.007 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.108 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.705 ppb	
209Bi (KED)	52.428 %	
232Th (KED)	0.042 ppb	
238U (KED)	0.012 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	55.403 %	1,697 cps	
9Be (KED)	0.043 ppb	3 cps	
11B (KED)	6.243 ppb	573 cps	
24Mg (KED)	130.842 ppb	42,158 cps	
27Al (KED)	183.219 ppb	14,715 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	55.396 %	28,860 cps	
51V (KED)	0.336 ppb	1,720 cps	
52Cr (KED)	1.381 ppb	11,072 cps	
55Mn (KED)	6.647 ppb	26,642 cps	
56Fe (KED)	181.409 ppb	1,322,598 cps	
58Ni (KED)	1.428 ppb	13,541 cps	
59Co (KED)	0.110 ppb	1,737 cps	
63Cu (KED)	4.203 ppb	45,924 cps	
64Zn (KED)	106.472 ppb	250,052 cps	
69Ga (KED)	0.807 ppb	2,930 cps	
75As (KED)	0.215 ppb	163 cps	
80Se (KED)	3.958 ppb	1,477 cps	
85Rb (KED)	1.282 ppb	4,321 cps	
88Sr (KED)	1.861 ppb	8,900 cps	
89Y (KED)	52.180 %	251,010 cps	
107Ag (KED)	0.060 ppb	1,873 cps	
114Cd (KED)	0.069 ppb	677 cps	
115In (KED)	53.518 %	455,982 cps	
133Cs (KED)	0.029 ppb	483 cps	
138Ba (KED)	2.852 ppb	60,851 cps	
139La (KED)	0.175 ppb	7,959 cps	
140Ce (KED)	0.357 ppb	21,799 cps	
141Pr (KED)	0.044 ppb	2,767 cps	
142Nd (KED)	0.221 ppb	5,635 cps	
152Sm (KED)	0.033 ppb	770 cps	
153Eu (KED)	0.005 ppb	247 cps	
158Gd (KED)	0.028 ppb	873 cps	
159Tb (KED)	49.137 %	2,328,432 cps	
164Dy (KED)	0.017 ppb	610 cps	
166Er (KED)	0.007 ppb	497 cps	
169Tm (KED)	0.001 ppb	170 cps	
174Yb (KED)	0.006 ppb	323 cps	
175Lu (KED)	-0.108 ppb	8,546 cps	
205Tl (KED)	0.004 ppb	477 cps	
208Pb (KED)	0.705 ppb	54,010 cps	
209Bi (KED)	52.428 %	1,867,327 cps	
232Th (KED)	0.042 ppb	6,235 cps	
238U (KED)	0.012 ppb	2,040 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 47

Analysis name: 701321jian

Analysis started at: 10/28/2021 5:01:08 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	56.165 %	
9Be (KED)	0.043 ppb	
11B (KED)	8.575 ppb	
24Mg (KED)	233.076 ppb	
27Al (KED)	177.031 ppb	
45Sc (KED)	56.833 %	
51V (KED)	0.331 ppb	
52Cr (KED)	1.365 ppb	
55Mn (KED)	6.071 ppb	
56Fe (KED)	204.152 ppb	
58Ni (KED)	1.469 ppb	
59Co (KED)	0.099 ppb	
63Cu (KED)	5.521 ppb	
64Zn (KED)	95.071 ppb	
69Ga (KED)	0.773 ppb	
75As (KED)	0.167 ppb	
80Se (KED)	3.051 ppb	
85Rb (KED)	0.943 ppb	
88Sr (KED)	1.705 ppb	
89Y (KED)	54.280 %	
107Ag (KED)	0.019 ppb	
114Cd (KED)	0.063 ppb	
115In (KED)	53.123 %	
133Cs (KED)	0.030 ppb	
138Ba (KED)	2.683 ppb	
139La (KED)	0.196 ppb	
140Ce (KED)	0.414 ppb	
141Pr (KED)	0.047 ppb	
142Nd (KED)	0.249 ppb	
152Sm (KED)	0.034 ppb	
153Eu (KED)	0.007 ppb	
158Gd (KED)	0.030 ppb	
159Tb (KED)	51.413 %	
164Dy (KED)	0.021 ppb	
166Er (KED)	0.006 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.008 ppb	
175Lu (KED)	-0.111 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	1.010 ppb	
209Bi (KED)	52.388 %	
232Th (KED)	0.046 ppb	
238U (KED)	0.015 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	56.165 %	1,720 cps	
9Be (KED)	0.043 ppb	3 cps	
11B (KED)	8.575 ppb	683 cps	
24Mg (KED)	233.076 ppb	76,071 cps	
27Al (KED)	177.031 ppb	14,589 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	56.833 %	29,608 cps	
51V (KED)	0.331 ppb	1,737 cps	
52Cr (KED)	1.365 ppb	11,232 cps	
55Mn (KED)	6.071 ppb	24,965 cps	
56Fe (KED)	204.152 ppb	1,526,867 cps	
58Ni (KED)	1.469 ppb	14,285 cps	
59Co (KED)	0.099 ppb	1,600 cps	
63Cu (KED)	5.521 ppb	62,412 cps	
64Zn (KED)	95.071 ppb	232,379 cps	
69Ga (KED)	0.773 ppb	2,924 cps	
75As (KED)	0.167 ppb	133 cps	
80Se (KED)	3.051 ppb	1,330 cps	
85Rb (KED)	0.943 ppb	3,307 cps	
88Sr (KED)	1.705 ppb	8,483 cps	
89Y (KED)	54.280 %	261,111 cps	
107Ag (KED)	0.019 ppb	597 cps	
114Cd (KED)	0.063 ppb	613 cps	
115In (KED)	53.123 %	452,614 cps	
133Cs (KED)	0.030 ppb	493 cps	
138Ba (KED)	2.683 ppb	59,897 cps	
139La (KED)	0.196 ppb	9,360 cps	
140Ce (KED)	0.414 ppb	26,461 cps	
141Pr (KED)	0.047 ppb	3,130 cps	
142Nd (KED)	0.249 ppb	6,655 cps	
152Sm (KED)	0.034 ppb	837 cps	
153Eu (KED)	0.007 ppb	363 cps	
158Gd (KED)	0.030 ppb	987 cps	
159Tb (KED)	51.413 %	2,436,304 cps	
164Dy (KED)	0.021 ppb	787 cps	
166Er (KED)	0.006 ppb	507 cps	
169Tm (KED)	0.001 ppb	193 cps	
174Yb (KED)	0.008 ppb	430 cps	
175Lu (KED)	-0.111 ppb	8,693 cps	
205Tl (KED)	0.006 ppb	700 cps	
208Pb (KED)	1.010 ppb	76,363 cps	
209Bi (KED)	52.388 %	1,865,927 cps	
232Th (KED)	0.046 ppb	6,752 cps	
238U (KED)	0.015 ppb	2,587 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 48

Analysis name: 805045jian

Analysis started at: 10/28/2021 5:02:56 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	54.750 %	
9Be (KED)	0.000 ppb	
11B (KED)	0.153 ppb	
24Mg (KED)	243.508 ppb	
27Al (KED)	449.027 ppb	
45Sc (KED)	53.793 %	
51V (KED)	0.845 ppb	
52Cr (KED)	1.920 ppb	
55Mn (KED)	13.836 ppb	
56Fe (KED)	440.705 ppb	
58Ni (KED)	2.958 ppb	
59Co (KED)	0.208 ppb	
63Cu (KED)	5.905 ppb	
64Zn (KED)	101.915 ppb	
69Ga (KED)	1.500 ppb	
75As (KED)	0.352 ppb	
80Se (KED)	2.759 ppb	
85Rb (KED)	1.341 ppb	
88Sr (KED)	3.339 ppb	
89Y (KED)	52.828 %	
107Ag (KED)	0.020 ppb	
114Cd (KED)	0.070 ppb	
115In (KED)	52.660 %	
133Cs (KED)	0.085 ppb	
138Ba (KED)	5.362 ppb	
139La (KED)	0.554 ppb	
140Ce (KED)	1.142 ppb	
141Pr (KED)	0.136 ppb	
142Nd (KED)	0.730 ppb	
152Sm (KED)	0.080 ppb	
153Eu (KED)	0.016 ppb	
158Gd (KED)	0.067 ppb	
159Tb (KED)	49.161 %	
164Dy (KED)	0.043 ppb	
166Er (KED)	0.019 ppb	
169Tm (KED)	0.003 ppb	
174Yb (KED)	0.016 ppb	
175Lu (KED)	-0.106 ppb	
205Tl (KED)	0.009 ppb	
208Pb (KED)	0.923 ppb	
209Bi (KED)	50.827 %	
232Th (KED)	0.135 ppb	
238U (KED)	0.027 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	54.750 %	1,677 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	0.153 ppb	307 cps	
24Mg (KED)	243.508 ppb	77,470 cps	
27Al (KED)	449.027 ppb	34,959 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	53.793 %	28,025 cps	
51V (KED)	0.845 ppb	4,197 cps	
52Cr (KED)	1.920 ppb	14,942 cps	
55Mn (KED)	13.836 ppb	53,822 cps	
56Fe (KED)	440.705 ppb	3,118,508 cps	
58Ni (KED)	2.958 ppb	27,073 cps	
59Co (KED)	0.208 ppb	3,170 cps	
63Cu (KED)	5.905 ppb	64,895 cps	
64Zn (KED)	101.915 ppb	242,365 cps	
69Ga (KED)	1.500 ppb	5,501 cps	
75As (KED)	0.352 ppb	267 cps	
80Se (KED)	2.759 ppb	1,230 cps	
85Rb (KED)	1.341 ppb	4,578 cps	
88Sr (KED)	3.339 ppb	16,130 cps	
89Y (KED)	52.828 %	254,125 cps	
107Ag (KED)	0.020 ppb	633 cps	
114Cd (KED)	0.070 ppb	673 cps	
115In (KED)	52.660 %	448,670 cps	
133Cs (KED)	0.085 ppb	1,373 cps	
138Ba (KED)	5.362 ppb	114,164 cps	
139La (KED)	0.554 ppb	25,242 cps	
140Ce (KED)	1.142 ppb	69,691 cps	
141Pr (KED)	0.136 ppb	8,663 cps	
142Nd (KED)	0.730 ppb	18,607 cps	
152Sm (KED)	0.080 ppb	1,867 cps	
153Eu (KED)	0.016 ppb	757 cps	
158Gd (KED)	0.067 ppb	2,100 cps	
159Tb (KED)	49.161 %	2,329,575 cps	
164Dy (KED)	0.043 ppb	1,543 cps	
166Er (KED)	0.019 ppb	1,027 cps	
169Tm (KED)	0.003 ppb	383 cps	
174Yb (KED)	0.016 ppb	817 cps	
175Lu (KED)	-0.106 ppb	8,770 cps	
205Tl (KED)	0.009 ppb	973 cps	
208Pb (KED)	0.923 ppb	67,848 cps	
209Bi (KED)	50.827 %	1,810,319 cps	
232Th (KED)	0.135 ppb	19,161 cps	
238U (KED)	0.027 ppb	4,497 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 49

Analysis name: 802008jian

Analysis started at: 10/28/2021 5:04:48 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	56.274 %	
9Be (KED)	0.000 ppb	
11B (KED)	-0.801 ppb	
24Mg (KED)	293.457 ppb	
27Al (KED)	560.247 ppb	
45Sc (KED)	56.532 %	
51V (KED)	0.947 ppb	
52Cr (KED)	2.000 ppb	
55Mn (KED)	16.619 ppb	
56Fe (KED)	490.187 ppb	
58Ni (KED)	2.851 ppb	
59Co (KED)	0.259 ppb	
63Cu (KED)	5.333 ppb	
64Zn (KED)	112.833 ppb	
69Ga (KED)	1.827 ppb	
75As (KED)	0.690 ppb	
80Se (KED)	3.759 ppb	
85Rb (KED)	1.376 ppb	
88Sr (KED)	4.502 ppb	
89Y (KED)	52.793 %	
107Ag (KED)	0.087 ppb	
114Cd (KED)	0.084 ppb	
115In (KED)	52.726 %	
133Cs (KED)	0.097 ppb	
138Ba (KED)	6.593 ppb	
139La (KED)	0.531 ppb	
140Ce (KED)	1.067 ppb	
141Pr (KED)	0.123 ppb	
142Nd (KED)	0.676 ppb	
152Sm (KED)	0.092 ppb	
153Eu (KED)	0.019 ppb	
158Gd (KED)	0.074 ppb	
159Tb (KED)	48.597 %	
164Dy (KED)	0.051 ppb	
166Er (KED)	0.025 ppb	
169Tm (KED)	0.003 ppb	
174Yb (KED)	0.021 ppb	
175Lu (KED)	-0.103 ppb	
205Tl (KED)	0.013 ppb	
208Pb (KED)	1.158 ppb	
209Bi (KED)	51.800 %	
232Th (KED)	0.143 ppb	
238U (KED)	0.033 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	56.274 %	1,723 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-0.801 ppb	273 cps	
24Mg (KED)	293.457 ppb	95,944 cps	
27Al (KED)	560.247 ppb	45,827 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	56.532 %	29,451 cps	
51V (KED)	0.947 ppb	4,941 cps	
52Cr (KED)	2.000 ppb	16,351 cps	
55Mn (KED)	16.619 ppb	67,931 cps	
56Fe (KED)	490.187 ppb	3,645,093 cps	
58Ni (KED)	2.851 ppb	27,420 cps	
59Co (KED)	0.259 ppb	4,151 cps	
63Cu (KED)	5.333 ppb	58,674 cps	
64Zn (KED)	112.833 ppb	268,039 cps	
69Ga (KED)	1.827 ppb	6,692 cps	
75As (KED)	0.690 ppb	517 cps	
80Se (KED)	3.759 ppb	1,450 cps	
85Rb (KED)	1.376 ppb	4,691 cps	
88Sr (KED)	4.502 ppb	21,716 cps	
89Y (KED)	52.793 %	253,956 cps	
107Ag (KED)	0.087 ppb	2,650 cps	
114Cd (KED)	0.084 ppb	803 cps	
115In (KED)	52.726 %	449,235 cps	
133Cs (KED)	0.097 ppb	1,580 cps	
138Ba (KED)	6.593 ppb	138,689 cps	
139La (KED)	0.531 ppb	23,916 cps	
140Ce (KED)	1.067 ppb	64,369 cps	
141Pr (KED)	0.123 ppb	7,732 cps	
142Nd (KED)	0.676 ppb	17,032 cps	
152Sm (KED)	0.092 ppb	2,100 cps	
153Eu (KED)	0.019 ppb	877 cps	
158Gd (KED)	0.074 ppb	2,310 cps	
159Tb (KED)	48.597 %	2,302,827 cps	
164Dy (KED)	0.051 ppb	1,790 cps	
166Er (KED)	0.025 ppb	1,257 cps	
169Tm (KED)	0.003 ppb	473 cps	
174Yb (KED)	0.021 ppb	1,040 cps	
175Lu (KED)	-0.103 ppb	8,910 cps	
205Tl (KED)	0.013 ppb	1,370 cps	
208Pb (KED)	1.158 ppb	86,245 cps	
209Bi (KED)	51.800 %	1,844,968 cps	
232Th (KED)	0.143 ppb	20,580 cps	
238U (KED)	0.033 ppb	5,651 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 50

Analysis name: 80214jian

Analysis started at: 10/28/2021 5:06:43 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	53.770 %	
9Be (KED)	0.089 ppb	
11B (KED)	-0.988 ppb	
24Mg (KED)	104.114 ppb	
27Al (KED)	181.436 ppb	
45Sc (KED)	53.402 %	
51V (KED)	0.262 ppb	
52Cr (KED)	1.138 ppb	
55Mn (KED)	3.727 ppb	
56Fe (KED)	156.950 ppb	
58Ni (KED)	1.232 ppb	
59Co (KED)	0.070 ppb	
63Cu (KED)	4.785 ppb	
64Zn (KED)	111.647 ppb	
69Ga (KED)	0.738 ppb	
75As (KED)	0.198 ppb	
80Se (KED)	3.858 ppb	
85Rb (KED)	1.083 ppb	
88Sr (KED)	1.618 ppb	
89Y (KED)	52.005 %	
107Ag (KED)	0.030 ppb	
114Cd (KED)	0.043 ppb	
115In (KED)	52.378 %	
133Cs (KED)	0.027 ppb	
138Ba (KED)	2.637 ppb	
139La (KED)	0.127 ppb	
140Ce (KED)	0.258 ppb	
141Pr (KED)	0.031 ppb	
142Nd (KED)	0.165 ppb	
152Sm (KED)	0.021 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.019 ppb	
159Tb (KED)	49.486 %	
164Dy (KED)	0.014 ppb	
166Er (KED)	0.004 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.102 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.565 ppb	
209Bi (KED)	50.611 %	
232Th (KED)	0.034 ppb	
238U (KED)	0.011 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	53.770 %	1,647 cps	
9Be (KED)	0.089 ppb	7 cps	
11B (KED)	-0.988 ppb	253 cps	
24Mg (KED)	104.114 ppb	32,572 cps	
27Al (KED)	181.436 ppb	14,048 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	53.402 %	27,821 cps	
51V (KED)	0.262 ppb	1,293 cps	
52Cr (KED)	1.138 ppb	8,796 cps	
55Mn (KED)	3.727 ppb	14,412 cps	
56Fe (KED)	156.950 ppb	1,103,227 cps	
58Ni (KED)	1.232 ppb	11,278 cps	
59Co (KED)	0.070 ppb	1,070 cps	
63Cu (KED)	4.785 ppb	51,968 cps	
64Zn (KED)	111.647 ppb	261,274 cps	
69Ga (KED)	0.738 ppb	2,674 cps	
75As (KED)	0.198 ppb	150 cps	
80Se (KED)	3.858 ppb	1,450 cps	
85Rb (KED)	1.083 ppb	3,641 cps	
88Sr (KED)	1.618 ppb	7,716 cps	
89Y (KED)	52.005 %	250,167 cps	
107Ag (KED)	0.030 ppb	910 cps	
114Cd (KED)	0.043 ppb	417 cps	
115In (KED)	52.378 %	446,270 cps	
133Cs (KED)	0.027 ppb	437 cps	
138Ba (KED)	2.637 ppb	56,679 cps	
139La (KED)	0.127 ppb	5,838 cps	
140Ce (KED)	0.258 ppb	15,893 cps	
141Pr (KED)	0.031 ppb	1,997 cps	
142Nd (KED)	0.165 ppb	4,234 cps	
152Sm (KED)	0.021 ppb	500 cps	
153Eu (KED)	0.003 ppb	143 cps	
158Gd (KED)	0.019 ppb	613 cps	
159Tb (KED)	49.486 %	2,344,984 cps	
164Dy (KED)	0.014 ppb	497 cps	
166Er (KED)	0.004 ppb	400 cps	
169Tm (KED)	0.001 ppb	140 cps	
174Yb (KED)	0.006 ppb	287 cps	
175Lu (KED)	-0.102 ppb	9,110 cps	
205Tl (KED)	0.006 ppb	620 cps	
208Pb (KED)	0.565 ppb	42,188 cps	
209Bi (KED)	50.611 %	1,802,619 cps	
232Th (KED)	0.034 ppb	4,834 cps	
238U (KED)	0.011 ppb	1,887 cps	