

Instrument Summary:

Instrument ID: iCAP Q
Serial Number: Undefined

Labbook Summary:

Path and filename: _Application Data\Workspace\LabBooks\wlw\20211104-1.imexp
Labbook created by: Administrator
Based on template:
Hardware configuration: iCAPQ1
Labbook type: eQuant
Qtegra version (last saved): 2.7.2425.154
Labbook started: 11/4/2021 2:45:44 PM
Labbook finished: 11/4/2021 4:55:52 PM

Method Summary:

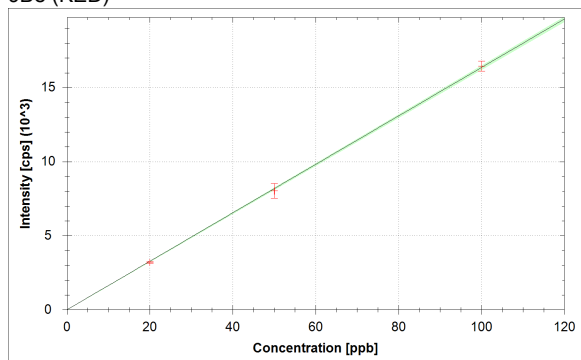
Isotope	Mode	Dwell time (s)	# of Channels	Spacing	Resolution	IS
6Li (KED)	KED	0.03	3	0.1	Normal	
9Be (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
11B (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
24Mg (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
27Al (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
45Sc (KED)	KED	0.03	3	0.1	Normal	
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)



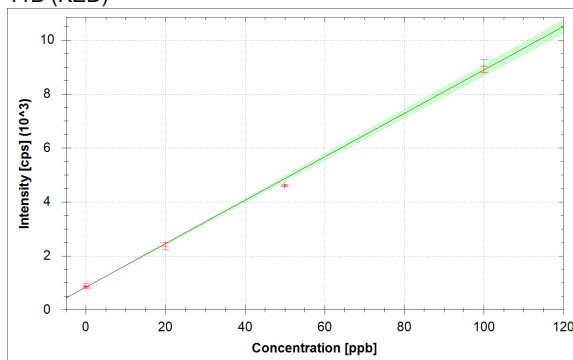
$$f(x) = 163.5390 \cdot x + 1.1153$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.007 \text{ ppb}$$

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

11B (KED)



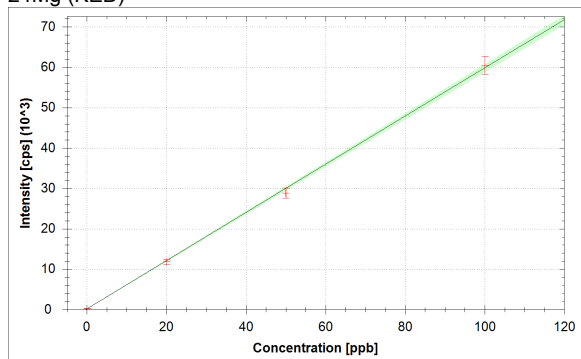
$$f(x) = 80.4923 \cdot x + 838.4378$$

$$R^2 = 0.9979$$

$$\text{BEC} = 10.416 \text{ ppb}$$

$$\text{LoD} = 3.1990 \text{ ppb}$$

24Mg (KED)



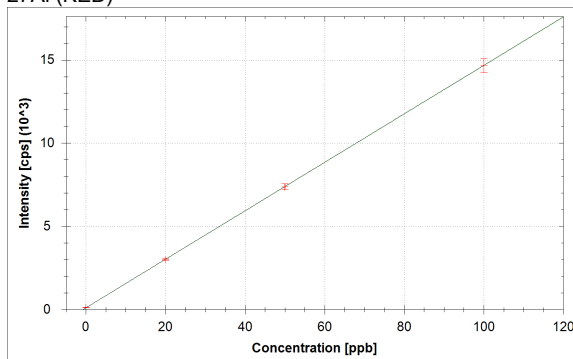
$$f(x) = 596.5308 \cdot x + 195.4412$$

$$R^2 = 0.9993$$

$$\text{BEC} = 0.328 \text{ ppb}$$

$$\text{LoD} = 0.1028 \text{ ppb}$$

27Al (KED)



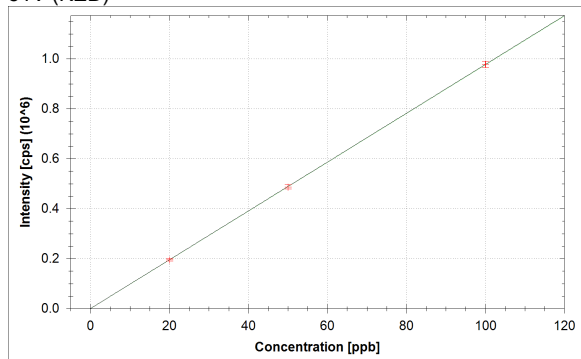
$$f(x) = 145.6295 \cdot x + 107.5451$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.738 \text{ ppb}$$

$$\text{LoD} = 0.0825 \text{ ppb}$$

51V (KED)



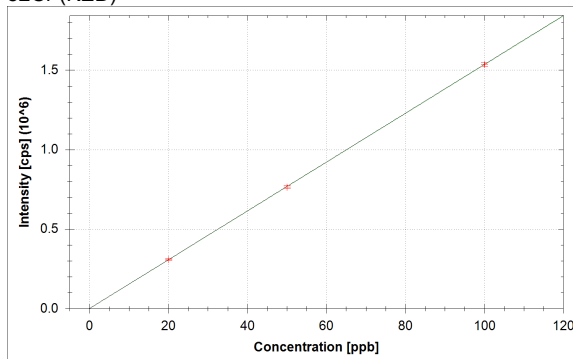
$$f(x) = 9771.5343 \cdot x + 4.4384$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0006 \text{ ppb}$$

52Cr (KED)



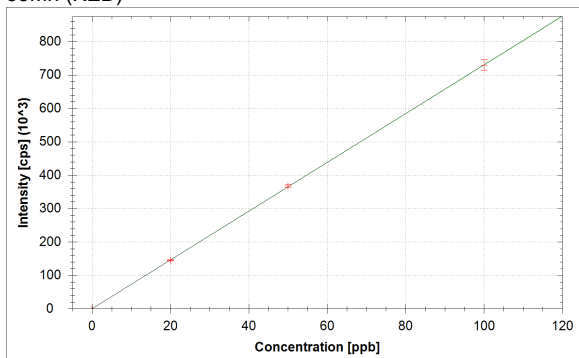
$$f(x) = 15354.5275 \cdot x + 91.9517$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0032 \text{ ppb}$$

55Mn (KED)



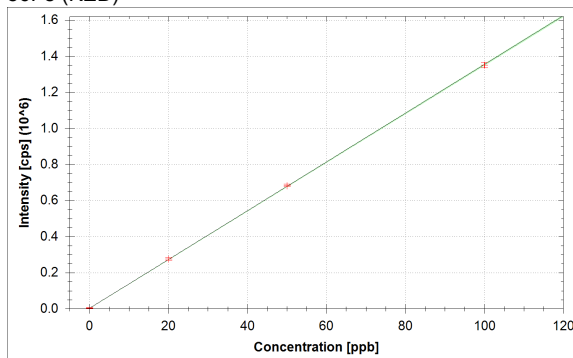
$$f(x) = 7300.4943 \cdot x + 66.5430$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0041 \text{ ppb}$$

56Fe (KED)



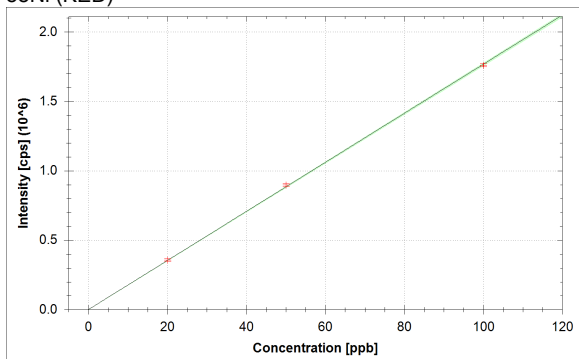
$$f(x) = 13518.1282 \cdot x + 2204.3743$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.163 \text{ ppb}$$

$$\text{LoD} = 0.5680 \text{ ppb}$$

58Ni (KED)



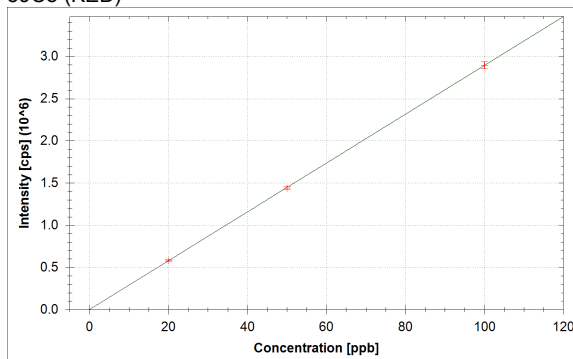
$$f(x) = 17671.8735 \cdot x + 353.7585$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.020 \text{ ppb}$$

$$\text{LoD} = 0.0087 \text{ ppb}$$

59Co (KED)



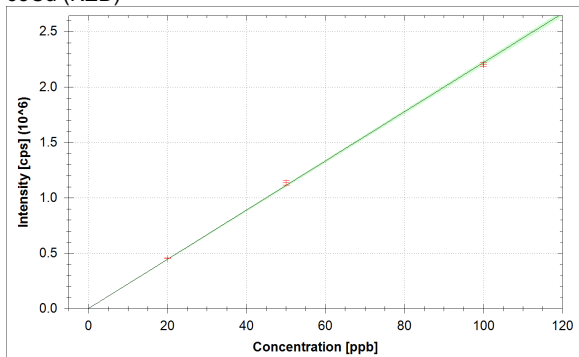
$$f(x) = 28937.5647 \cdot x + 28.8405$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0014 \text{ ppb}$$

63Cu (KED)



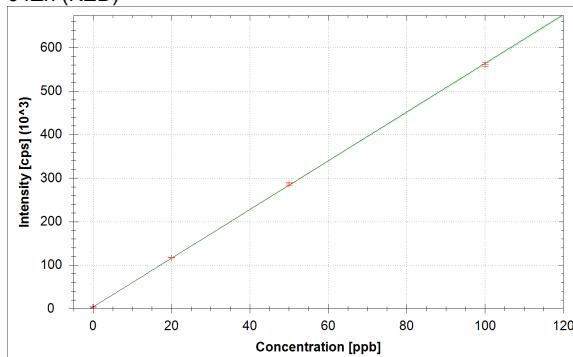
$$f(x) = 22191.1111 \cdot x + 548.1896$$

$$R^2 = 0.9997$$

$$\text{BEC} = 0.025 \text{ ppb}$$

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

64Zn (KED)



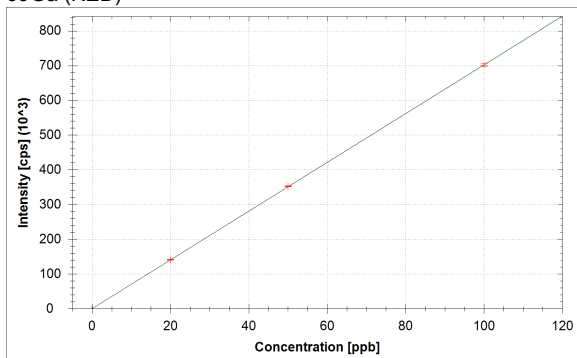
$$f(x) = 5596.9525 \cdot x + 3698.6229$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.661 \text{ ppb}$$

$$\text{LoD} = 0.1045 \text{ ppb}$$

69Ga (KED)



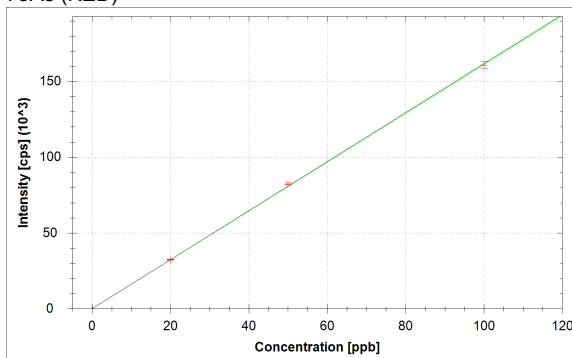
$$f(x) = 7019.5212 \cdot x + 88.0560$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.013 \text{ ppb}$$

$$\text{LoD} = 0.0165 \text{ ppb}$$

75As (KED)



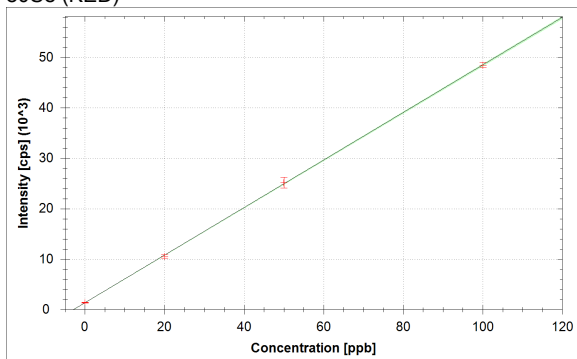
$$f(x) = 1615.6351 \cdot x + 11.0090$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.007 \text{ ppb}$$

$$\text{LoD} = 0.0143 \text{ ppb}$$

80Se (KED)



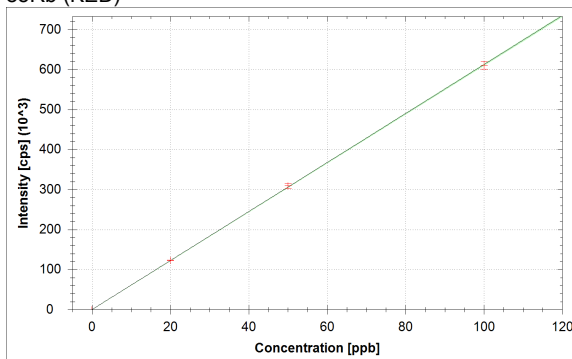
$$f(x) = 471.6996 \cdot x + 1354.6841$$

$$R^2 = 0.9999$$

$$\text{BEC} = 2.872 \text{ ppb}$$

$$\text{LoD} = 0.4165 \text{ ppb}$$

85Rb (KED)



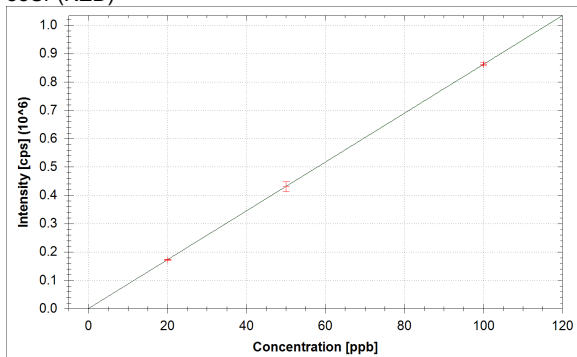
$$f(x) = 6122.5507 \cdot x + 84.8876$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.014 \text{ ppb}$$

$$\text{LoD} = 0.0077 \text{ ppb}$$

88Sr (KED)



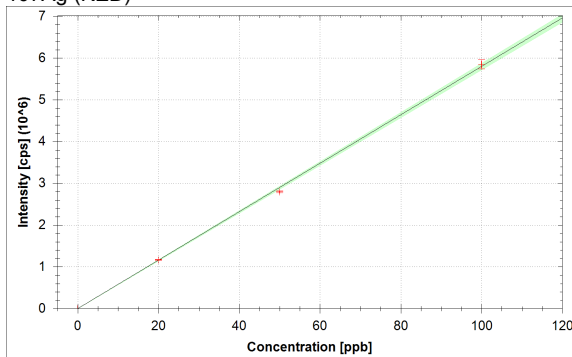
$$f(x) = 8619.6937 \cdot x + 121.0362$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.014 \text{ ppb}$$

$$\text{LoD} = 0.0107 \text{ ppb}$$

107Ag (KED)



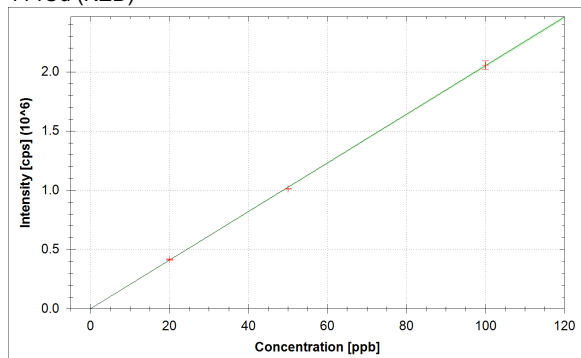
$$f(x) = 57995.7875 \cdot x + 17.4330$$

$$R^2 = 0.9994$$

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

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

114Cd (KED)



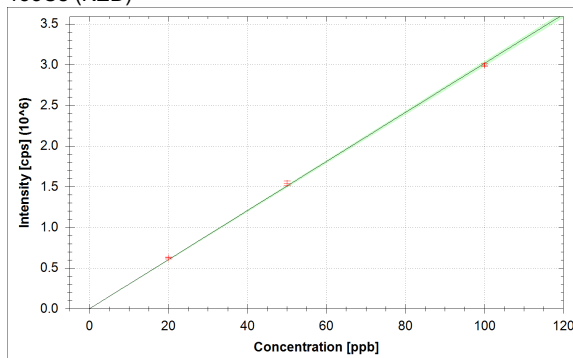
$$f(x) = 20504.8514 \cdot x + 28.4921$$

$$R^2 = 0.9999$$

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

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

133Cs (KED)



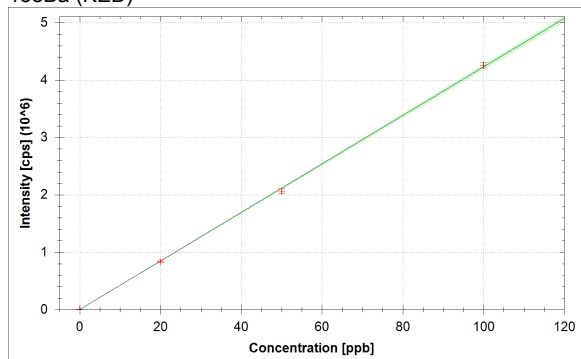
$$f(x) = 30139.5472 \cdot x + 19.7393$$

$$R^2 = 0.9997$$

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

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

138Ba (KED)



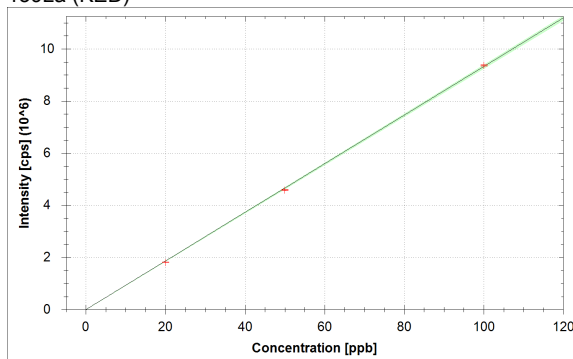
$$f(x) = 42274.4354 \cdot x + 1488.7921$$

$$R^2 = 0.9997$$

$$\text{BEC} = 0.035 \text{ ppb}$$

$$\text{LoD} = 0.0777 \text{ ppb}$$

139La (KED)



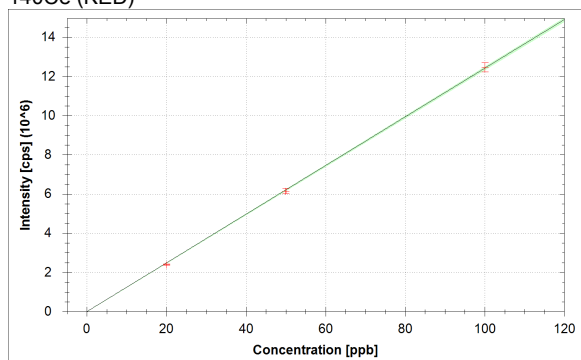
$$f(x) = 93221.1126 \cdot x + 28.0261$$

$$R^2 = 0.9998$$

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

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

140Ce (KED)



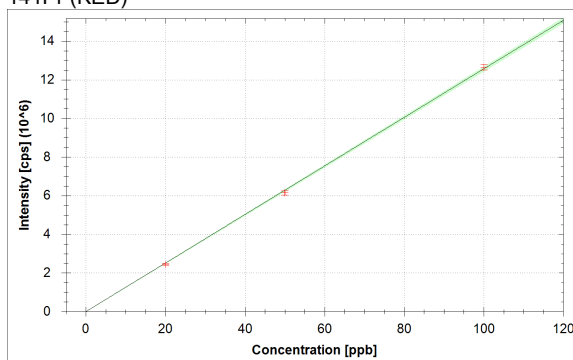
$$f(x) = 124203.9901 \cdot x + 331.5492$$

$$R^2 = 0.9999$$

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

$$\text{LoD} = 0.0006 \text{ ppb}$$

141Pr (KED)

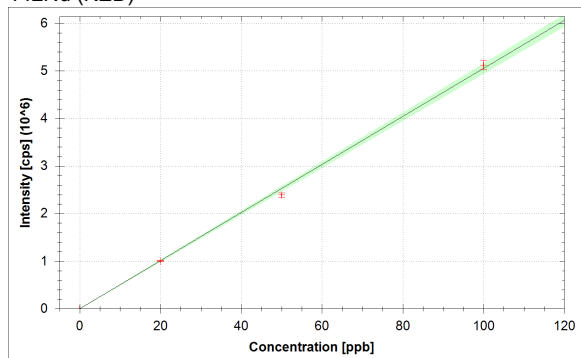


$$f(x) = 125616.2339 \cdot x + 17.8536$$

$$R^2 = 0.9997$$

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

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

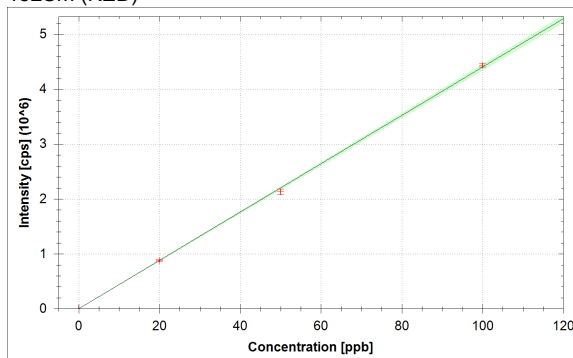
¹⁴²Nd (KED)

$$f(x) = 50521.8834 \cdot x + 56.1206$$

$$R^2 = 0.9987$$

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

$$\text{LoD} = 0.0004 \text{ ppb}$$

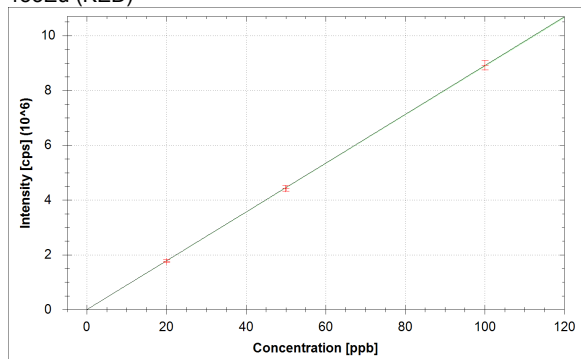
¹⁵²Sm (KED)

$$f(x) = 44037.5973 \cdot x + 2.2289$$

$$R^2 = 0.9995$$

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

$$\text{LoD} = 0.0005 \text{ ppb}$$

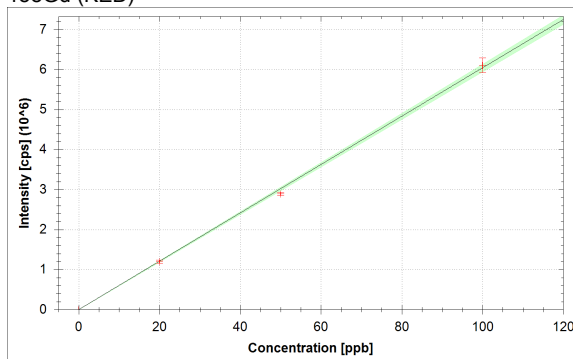
¹⁵³Eu (KED)

$$f(x) = 89019.7004 \cdot x + 6.7524$$

$$R^2 = 1.0000$$

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

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

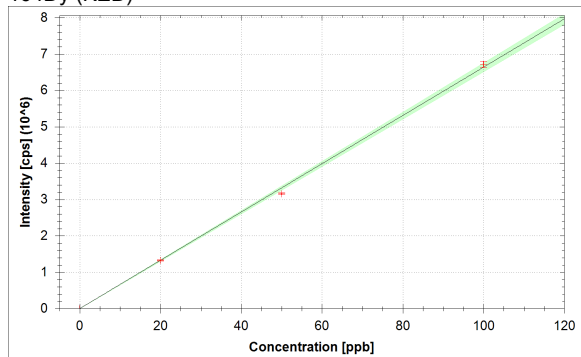
¹⁵⁸Gd (KED)

$$f(x) = 60414.8007 \cdot x + 1.1098$$

$$R^2 = 0.9992$$

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

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

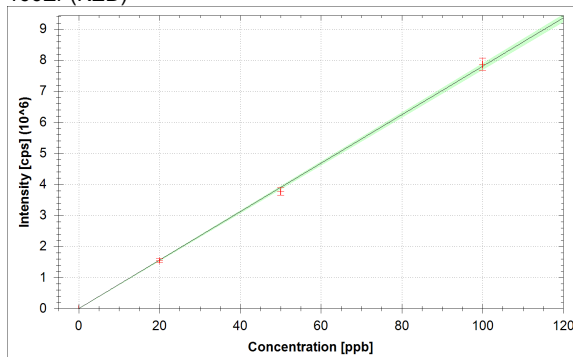
¹⁶⁴Dy (KED)

$$f(x) = 66386.5659 \cdot x + 15.7401$$

$$R^2 = 0.9990$$

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

$$\text{LoD} = 0.0006 \text{ ppb}$$

¹⁶⁶Er (KED)

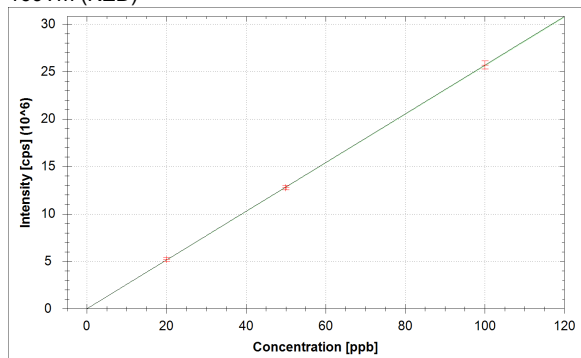
$$f(x) = 77996.6306 \cdot x + 309.5040$$

$$R^2 = 0.9995$$

$$\text{BEC} = 0.004 \text{ ppb}$$

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

169Tm (KED)



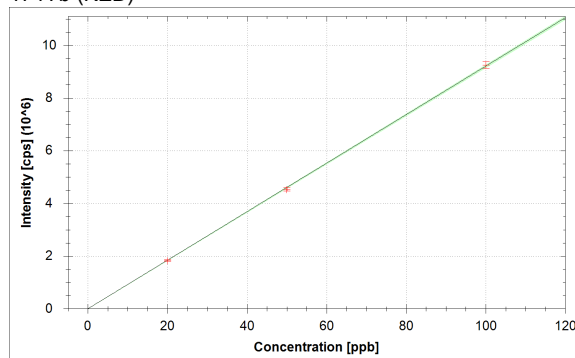
$$f(x) = 256563.9866 \cdot x + 8.9628$$

$$R^2 = 1.0000$$

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

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

174Yb (KED)



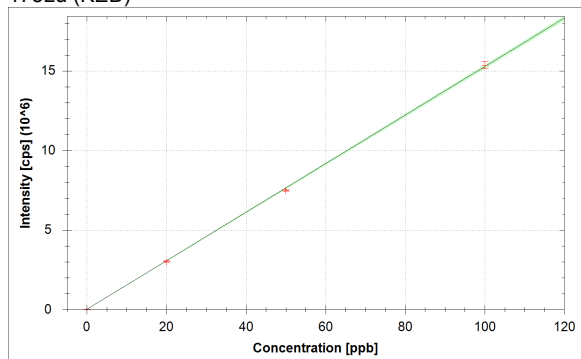
$$f(x) = 92094.1313 \cdot x + 13.4798$$

$$R^2 = 0.9999$$

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

$$\text{LoD} = 0.0004 \text{ ppb}$$

175Lu (KED)



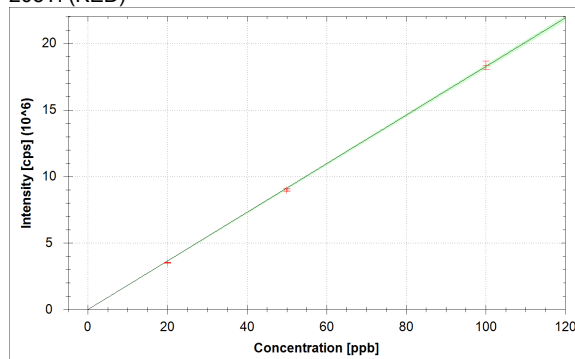
$$f(x) = 152522.0955 \cdot x + 18078.6193$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.119 \text{ ppb}$$

$$\text{LoD} = 0.0171 \text{ ppb}$$

205TI (KED)



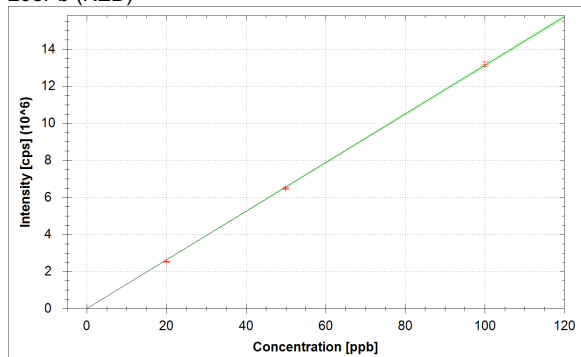
$$f(x) = 182620.6348 \cdot x + 22.1108$$

$$R^2 = 0.9998$$

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

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

208Pb (KED)



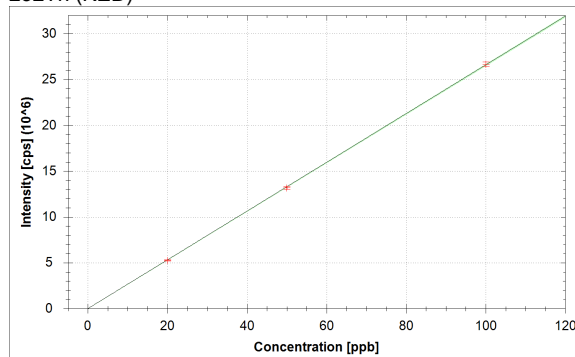
$$f(x) = 131142.4226 \cdot x + 4230.4322$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.032 \text{ ppb}$$

$$\text{LoD} = 0.0030 \text{ ppb}$$

232Th (KED)

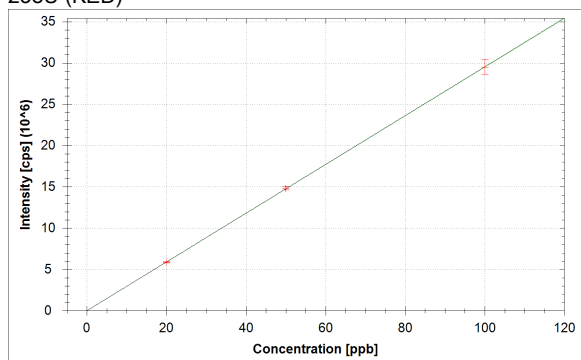


$$f(x) = 265957.7735 \cdot x + 87.3311$$

$$R^2 = 1.0000$$

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

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

²³⁸U (KED)

$$f(x) = 295226.5832 \cdot x + 49.7358$$

$$R^2 = 1.0000$$

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

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

Standards:

Analysis Index: 3
 Analysis Name: 0+20
 Analysis Type: STD
 Analysis Started at: 11/4/2021 2:52:05 PM
 Standard (Stock): std0
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	100.639 %		
9Be (KED)	0.000 ppb	1.7 %	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)	100.250 %		
51V (KED)	0.000 ppb	1.2 %	0.000 ppb
52Cr (KED)	0.000 ppb	0.1 %	0.000 ppb
55Mn (KED)	0.000 ppb	0.2 %	0.000 ppb
56Fe (KED)	0.000 ppb	0.0 %	0.000 ppb
58Ni (KED)	0.000 ppb	0.1 %	0.000 ppb
59Co (KED)	0.000 ppb	0.2 %	0.000 ppb
63Cu (KED)	0.000 ppb	0.1 %	0.000 ppb
64Zn (KED)	0.000 ppb	0.0 %	0.000 ppb
69Ga (KED)	0.000 ppb	0.1 %	0.000 ppb
75As (KED)	0.000 ppb	0.5 %	0.000 ppb
80Se (KED)	0.000 ppb	0.1 %	0.000 ppb
85Rb (KED)	0.000 ppb	0.3 %	0.000 ppb
88Sr (KED)	0.000 ppb	0.0 %	0.000 ppb
89Y (KED)	100.993 %		
107Ag (KED)	0.000 ppb	0.6 %	0.000 ppb
114Cd (KED)	0.000 ppb	0.3 %	0.000 ppb
115In (KED)	101.573 %		
133Cs (KED)	0.000 ppb	0.3 %	0.000 ppb
138Ba (KED)	0.000 ppb	0.1 %	0.000 ppb
139La (KED)	0.000 ppb	0.2 %	0.000 ppb
140Ce (KED)	0.000 ppb	0.2 %	0.000 ppb
141Pr (KED)	0.000 ppb	0.7 %	0.000 ppb
142Nd (KED)	0.000 ppb	0.2 %	0.000 ppb
152Sm (KED)	0.000 ppb	0.9 %	0.000 ppb
153Eu (KED)	0.000 ppb	0.5 %	0.000 ppb
158Gd (KED)	0.000 ppb	1.7 %	0.000 ppb
159Tb (KED)	99.105 %		
164Dy (KED)	0.000 ppb	0.5 %	0.000 ppb
166Er (KED)	0.000 ppb	0.0 %	0.000 ppb
169Tm (KED)	0.000 ppb	0.6 %	0.000 ppb
174Yb (KED)	0.000 ppb	0.3 %	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	0.0 %	0.000 ppb
209Bi (KED)	100.515 %		
232Th (KED)	0.000 ppb	0.3 %	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: 11/4/2021 2:55:17 PM
 Standard (Stock): std3
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	101.128 %		
9Be (KED)	19.558 ppb	2.0 %	20.000 ppb
11B (KED)	18.943 ppb	9.5 %	20.000 ppb
24Mg (KED)	19.480 ppb	5.1 %	20.000 ppb
27Al (KED)	19.982 ppb	2.3 %	20.000 ppb
45Sc (KED)	102.786 %		
51V (KED)	19.914 ppb	2.3 %	20.000 ppb
52Cr (KED)	20.024 ppb	2.0 %	20.000 ppb
55Mn (KED)	19.818 ppb	0.9 %	20.000 ppb
56Fe (KED)	20.290 ppb	2.7 %	20.000 ppb
58Ni (KED)	20.218 ppb	2.8 %	20.000 ppb
59Co (KED)	20.061 ppb	2.3 %	20.000 ppb
63Cu (KED)	20.472 ppb	0.2 %	20.000 ppb
64Zn (KED)	20.206 ppb	0.3 %	20.000 ppb
69Ga (KED)	20.024 ppb	1.0 %	20.000 ppb
75As (KED)	19.998 ppb	1.1 %	20.000 ppb
80Se (KED)	19.482 ppb	3.5 %	20.000 ppb
85Rb (KED)	20.142 ppb	0.5 %	20.000 ppb
88Sr (KED)	19.955 ppb	0.7 %	20.000 ppb
89Y (KED)	102.504 %		
107Ag (KED)	20.078 ppb	0.6 %	20.000 ppb
114Cd (KED)	20.225 ppb	1.2 %	20.000 ppb
115In (KED)	100.211 %		
133Cs (KED)	20.687 ppb	1.8 %	20.000 ppb
138Ba (KED)	19.775 ppb	3.0 %	20.000 ppb
139La (KED)	19.436 ppb	0.3 %	20.000 ppb
140Ce (KED)	19.244 ppb	1.2 %	20.000 ppb
141Pr (KED)	19.461 ppb	2.3 %	20.000 ppb
142Nd (KED)	19.874 ppb	1.6 %	20.000 ppb
152Sm (KED)	19.921 ppb	2.1 %	20.000 ppb
153Eu (KED)	19.858 ppb	3.1 %	20.000 ppb
158Gd (KED)	19.858 ppb	3.4 %	20.000 ppb
159Tb (KED)	101.475 %		
164Dy (KED)	19.970 ppb	1.1 %	20.000 ppb
166Er (KED)	19.836 ppb	3.8 %	20.000 ppb
169Tm (KED)	20.205 ppb	3.8 %	20.000 ppb
174Yb (KED)	19.803 ppb	1.7 %	20.000 ppb
175Lu (KED)	19.630 ppb	1.6 %	20.000 ppb
205Tl (KED)	19.255 ppb	0.6 %	20.000 ppb
208Pb (KED)	19.131 ppb	1.0 %	20.000 ppb
209Bi (KED)	101.131 %		
232Th (KED)	19.752 ppb	1.2 %	20.000 ppb
238U (KED)	19.842 ppb	1.3 %	20.000 ppb

Standards:

Analysis Index: 5
 Analysis Name: 50+20
 Analysis Type: STD
 Analysis Started at: 11/4/2021 2:58:31 PM
 Standard (Stock): std1
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	100.414 %		
9Be (KED)	48.989 ppb	6.2 %	50.000 ppb
11B (KED)	46.763 ppb	1.2 %	50.000 ppb
24Mg (KED)	48.026 ppb	4.4 %	50.000 ppb
27Al (KED)	49.889 ppb	2.4 %	50.000 ppb
45Sc (KED)	101.520 %		
51V (KED)	49.844 ppb	1.7 %	50.000 ppb
52Cr (KED)	49.804 ppb	1.1 %	50.000 ppb
55Mn (KED)	50.265 ppb	1.3 %	50.000 ppb
56Fe (KED)	50.383 ppb	1.1 %	50.000 ppb
58Ni (KED)	50.760 ppb	1.3 %	50.000 ppb
59Co (KED)	49.838 ppb	1.0 %	50.000 ppb
63Cu (KED)	51.119 ppb	1.9 %	50.000 ppb
64Zn (KED)	50.559 ppb	1.2 %	50.000 ppb
69Ga (KED)	50.179 ppb	0.5 %	50.000 ppb
75As (KED)	50.937 ppb	0.8 %	50.000 ppb
80Se (KED)	50.484 ppb	4.5 %	50.000 ppb
85Rb (KED)	50.472 ppb	2.0 %	50.000 ppb
88Sr (KED)	49.910 ppb	4.2 %	50.000 ppb
89Y (KED)	101.341 %		
107Ag (KED)	48.173 ppb	0.9 %	50.000 ppb
114Cd (KED)	49.345 ppb	0.2 %	50.000 ppb
115In (KED)	102.109 %		
133Cs (KED)	51.061 ppb	1.9 %	50.000 ppb
138Ba (KED)	48.708 ppb	2.0 %	50.000 ppb
139La (KED)	49.164 ppb	0.4 %	50.000 ppb
140Ce (KED)	49.505 ppb	2.1 %	50.000 ppb
141Pr (KED)	48.876 ppb	1.8 %	50.000 ppb
142Nd (KED)	47.304 ppb	2.0 %	50.000 ppb
152Sm (KED)	48.374 ppb	2.3 %	50.000 ppb
153Eu (KED)	49.692 ppb	2.2 %	50.000 ppb
158Gd (KED)	47.894 ppb	1.4 %	50.000 ppb
159Tb (KED)	103.497 %		
164Dy (KED)	47.562 ppb	0.9 %	50.000 ppb
166Er (KED)	48.318 ppb	3.2 %	50.000 ppb
169Tm (KED)	49.730 ppb	1.8 %	50.000 ppb
174Yb (KED)	49.206 ppb	1.5 %	50.000 ppb
175Lu (KED)	49.051 ppb	0.7 %	50.000 ppb
205Tl (KED)	49.218 ppb	1.4 %	50.000 ppb
208Pb (KED)	49.371 ppb	1.0 %	50.000 ppb
209Bi (KED)	101.098 %		
232Th (KED)	49.577 ppb	1.3 %	50.000 ppb
238U (KED)	50.220 ppb	1.4 %	50.000 ppb

Standards:

Analysis Index: 6
 Analysis Name: 100+20
 Analysis Type: STD
 Analysis Started at: 11/4/2021 3:01:35 PM
 Standard (Stock): std2
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	99.436 %		
9Be (KED)	100.594 ppb	2.1 %	100.000 ppb
11B (KED)	101.830 ppb	2.9 %	100.000 ppb
24Mg (KED)	101.091 ppb	3.7 %	100.000 ppb
27Al (KED)	100.059 ppb	2.9 %	100.000 ppb
45Sc (KED)	103.811 %		
51V (KED)	100.095 ppb	1.3 %	100.000 ppb
52Cr (KED)	100.093 ppb	0.8 %	100.000 ppb
55Mn (KED)	99.904 ppb	2.1 %	100.000 ppb
56Fe (KED)	99.751 ppb	1.1 %	100.000 ppb
58Ni (KED)	99.576 ppb	0.7 %	100.000 ppb
59Co (KED)	100.069 ppb	1.4 %	100.000 ppb
63Cu (KED)	99.346 ppb	0.8 %	100.000 ppb
64Zn (KED)	99.679 ppb	0.8 %	100.000 ppb
69Ga (KED)	99.906 ppb	0.6 %	100.000 ppb
75As (KED)	99.532 ppb	1.5 %	100.000 ppb
80Se (KED)	99.862 ppb	1.1 %	100.000 ppb
85Rb (KED)	99.736 ppb	1.6 %	100.000 ppb
88Sr (KED)	100.054 ppb	0.6 %	100.000 ppb
89Y (KED)	103.839 %		
107Ag (KED)	100.898 ppb	1.9 %	100.000 ppb
114Cd (KED)	100.282 ppb	1.7 %	100.000 ppb
115In (KED)	102.767 %		
133Cs (KED)	99.332 ppb	0.7 %	100.000 ppb
138Ba (KED)	100.691 ppb	1.2 %	100.000 ppb
139La (KED)	100.531 ppb	0.4 %	100.000 ppb
140Ce (KED)	100.399 ppb	1.9 %	100.000 ppb
141Pr (KED)	100.670 ppb	1.1 %	100.000 ppb
142Nd (KED)	101.373 ppb	2.0 %	100.000 ppb
152Sm (KED)	100.829 ppb	0.8 %	100.000 ppb
153Eu (KED)	100.183 ppb	2.0 %	100.000 ppb
158Gd (KED)	101.081 ppb	3.0 %	100.000 ppb
159Tb (KED)	102.871 %		
164Dy (KED)	101.225 ppb	1.3 %	100.000 ppb
166Er (KED)	100.874 ppb	2.5 %	100.000 ppb
169Tm (KED)	100.094 ppb	1.6 %	100.000 ppb
174Yb (KED)	100.436 ppb	1.3 %	100.000 ppb
175Lu (KED)	100.548 ppb	1.5 %	100.000 ppb
205Tl (KED)	100.540 ppb	1.8 %	100.000 ppb
208Pb (KED)	100.488 ppb	0.9 %	100.000 ppb
209Bi (KED)	99.764 %		
232Th (KED)	100.261 ppb	0.8 %	100.000 ppb
238U (KED)	99.922 ppb	3.2 %	100.000 ppb

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Main Runs:	Survey Runs:	Start Time:	User name:
1	water	3	0	11/4/2021 2:45:50 PM	WINDOWS-UPCI4ER\Administrator
2	blk	3	0	11/4/2021 2:48:52 PM	WINDOWS-UPCI4ER\Administrator
3	0+20	3	0	11/4/2021 2:52:05 PM	WINDOWS-UPCI4ER\Administrator
4	20+20	3	0	11/4/2021 2:55:17 PM	WINDOWS-UPCI4ER\Administrator
5	50+20	3	0	11/4/2021 2:58:31 PM	WINDOWS-UPCI4ER\Administrator
6	100+20	3	0	11/4/2021 3:01:35 PM	WINDOWS-UPCI4ER\Administrator
7	315042603860464 jian	3	0	11/4/2021 3:04:44 PM	WINDOWS-UPCI4ER\Administrator
8	315047603860522 jian	3	0	11/4/2021 3:07:51 PM	WINDOWS-UPCI4ER\Administrator
9	315047603860451	3	0	11/4/2021 3:10:55 PM	WINDOWS-UPCI4ER\Administrator
10	315047603860477 jian	3	0	11/4/2021 3:14:06 PM	WINDOWS-UPCI4ER\Administrator
11	315047603860529 jian	3	0	11/4/2021 3:17:15 PM	WINDOWS-UPCI4ER\Administrator
12	315042603860503 jian	3	0	11/4/2021 3:20:20 PM	WINDOWS-UPCI4ER\Administrator
13	305047603860518 jian	3	0	11/4/2021 3:23:25 PM	WINDOWS-UPCI4ER\Administrator
14	315047603860510	3	0	11/4/2021 3:26:36 PM	WINDOWS-UPCI4ER\Administrator
15	315047603860447 jian	3	0	11/4/2021 3:29:43 PM	WINDOWS-UPCI4ER\Administrator
16	315047603860470jian	3	0	11/4/2021 3:32:46 PM	WINDOWS-UPCI4ER\Administrator
17	315047603860444 jian	3	0	11/4/2021 3:35:56 PM	WINDOWS-UPCI4ER\Administrator
18	315047603860458	3	0	11/4/2021 3:39:15 PM	WINDOWS-UPCI4ER\Administrator
19	315047603860441	3	0	11/4/2021 3:42:29 PM	WINDOWS-UPCI4ER\Administrator
20	315047603860496 jian	3	0	11/4/2021 3:45:41 PM	WINDOWS-UPCI4ER\Administrator
21	315047603860524	3	0	11/4/2021 3:48:58 PM	WINDOWS-UPCI4ER\Administrator
22	315047603860497 jian	3	0	11/4/2021 3:52:11 PM	WINDOWS-UPCI4ER\Administrator
23	315047603860505	3	0	11/4/2021 3:55:22 PM	WINDOWS-UPCI4ER\Administrator
24	315047603860452 jian	3	0	11/4/2021 3:58:47 PM	WINDOWS-UPCI4ER\Administrator
25	315047603860504	3	0	11/4/2021 4:02:01 PM	WINDOWS-UPCI4ER\Administrator
26	315047603860520jian	3	0	11/4/2021 4:05:13 PM	WINDOWS-UPCI4ER\Administrator
27	315047603860508jian	3	0	11/4/2021 4:08:24 PM	WINDOWS-UPCI4ER\Administrator
28	305047603860469jian	3	0	11/4/2021 4:11:56 PM	WINDOWS-UPCI4ER\Administrator
29	315042603860515jian	3	0	11/4/2021 4:17:15 PM	WINDOWS-UPCI4ER\Administrator
30	315042603860521jian	3	0	11/4/2021 4:20:25 PM	WINDOWS-UPCI4ER\Administrator
31	270jian	1	0	11/4/2021 4:23:35 PM	WINDOWS-UPCI4ER\Administrator
32	272jian	1	0	11/4/2021 4:25:26 PM	WINDOWS-UPCI4ER\Administrator
33	17064jian	1	0	11/4/2021 4:27:14 PM	WINDOWS-UPCI4ER\Administrator
34	17036jian	1	0	11/4/2021 4:29:07 PM	WINDOWS-UPCI4ER\Administrator
35	266jian	1	0	11/4/2021 4:30:57 PM	WINDOWS-UPCI4ER\Administrator
36	278 jian	1	0	11/4/2021 4:32:45 PM	WINDOWS-UPCI4ER\Administrator
37	16005 jian	1	0	11/4/2021 4:34:35 PM	WINDOWS-UPCI4ER\Administrator
38	16092jian	1	0	11/4/2021 4:36:20 PM	WINDOWS-UPCI4ER\Administrator
39	262jian	1	0	11/4/2021 4:38:06 PM	WINDOWS-UPCI4ER\Administrator
40	17080jian	1	0	11/4/2021 4:39:53 PM	WINDOWS-UPCI4ER\Administrator
41	280jian	1	0	11/4/2021 4:41:38 PM	WINDOWS-UPCI4ER\Administrator
42	18074jian	1	0	11/4/2021 4:43:23 PM	WINDOWS-UPCI4ER\Administrator
43	276jian	1	0	11/4/2021 4:45:10 PM	WINDOWS-UPCI4ER\Administrator
44	001152921177301jian	1	0	11/4/2021 4:46:55 PM	WINDOWS-UPCI4ER\Administrator
45	274jian	1	0	11/4/2021 4:48:42 PM	WINDOWS-UPCI4ER\Administrator
46	264jian	1	0	11/4/2021 4:50:29 PM	WINDOWS-UPCI4ER\Administrator
47	17342jian	1	0	11/4/2021 4:52:17 PM	WINDOWS-UPCI4ER\Administrator
48	17322jian	1	0	11/4/2021 4:54:04 PM	WINDOWS-UPCI4ER\Administrator

Sample Summary

Instrument ID: iCAP Q

Analysis index: 1

Analysis name: water

Analysis started at: 11/4/2021 2:45:50 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	0.000 %	
11B (KED)	Infinity ppb	
27Al (KED)	78.756 ppb	121.3 %
45Sc (KED)	0.043 %	42.9 %
51V (KED)	0.263 ppb	173.5 %
52Cr (KED)	7.458 ppb	46.7 %
55Mn (KED)	2.176 ppb	68.1 %
56Fe (KED)	52.990 ppb	48.0 %
58Ni (KED)	16.285 ppb	39.1 %
59Co (KED)	-0.001 ppb	0.0 %
63Cu (KED)	Infinity ppb	
64Zn (KED)	Infinity ppb	
69Ga (KED)	Infinity ppb	
75As (KED)	Infinity ppb	
80Se (KED)	Infinity ppb	
89Y (KED)	0.000 %	
107Ag (KED)	Infinity ppb	
115In (KED)	0.000 %	
138Ba (KED)	Infinity ppb	
159Tb (KED)	0.000 %	
205Tl (KED)	79.192 ppb	27.5 %
208Pb (KED)	24.266 ppb	62.7 %
209Bi (KED)	0.001 %	17.3 %
232Th (KED)	0.553 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)		1 cps	173.2 %
11B (KED)	Infinity ppb	11 cps	34.6 %
24Mg (KED)		1 cps	173.2 %
27Al (KED)	78.756 ppb	3 cps	100.0 %
45Sc (KED)	0.043 %	23 cps	42.9 %
51V (KED)	0.263 ppb	1 cps	173.2 %
52Cr (KED)	7.458 ppb	43 cps	7.7 %
55Mn (KED)	2.176 ppb	6 cps	34.6 %
56Fe (KED)	52.990 ppb	270 cps	4.5 %
58Ni (KED)	16.285 ppb	111 cps	22.7 %
59Co (KED)	-0.001 ppb	0 cps	
63Cu (KED)	Infinity ppb	23 cps	14.3 %
64Zn (KED)	Infinity ppb	104 cps	4.9 %
69Ga (KED)	Infinity ppb	4 cps	43.3 %
75As (KED)	Infinity ppb	18 cps	10.8 %
80Se (KED)	Infinity ppb	1,252 cps	6.5 %
85Rb (KED)		1 cps	173.2 %
88Sr (KED)		0 cps	
89Y (KED)	0.000 %	0 cps	
107Ag (KED)	Infinity ppb	8 cps	65.5 %
114Cd (KED)		3 cps	100.0 %
115In (KED)	0.000 %	0 cps	

Category	Concentration average	Intensity average	Intensity RSD
133Cs (KED)		0 cps	
138Ba (KED)	Infinity ppb	52 cps	19.5 %
139La (KED)		0 cps	
140Ce (KED)		1 cps	173.2 %
141Pr (KED)		0 cps	
142Nd (KED)		0 cps	
152Sm (KED)		0 cps	
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)	79.192 ppb	89 cps	17.7 %
208Pb (KED)	24.266 ppb	19 cps	53.9 %
209Bi (KED)	0.001 %	22 cps	17.3 %
232Th (KED)	0.553 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: 11/4/2021 2:48:52 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	100.000 %	
9Be (KED)	-0.007 ppb	0.0 %
11B (KED)	0.537 ppb	198.4 %
24Mg (KED)	-0.059 ppb	57.7 %
27Al (KED)	0.162 ppb	17.0 %
45Sc (KED)	100.000 %	
51V (KED)	0.000 ppb	58.1 %
52Cr (KED)	-0.001 ppb	107.9 %
55Mn (KED)	-0.002 ppb	82.2 %
56Fe (KED)	0.106 ppb	178.4 %
58Ni (KED)	0.000 ppb	920.5 %
59Co (KED)	0.000 ppb	1,129.2 %
63Cu (KED)	0.001 ppb	23.2 %
64Zn (KED)	-0.090 ppb	38.6 %
69Ga (KED)	0.002 ppb	356.7 %
75As (KED)	0.004 ppb	113.7 %
80Se (KED)	0.059 ppb	236.4 %
85Rb (KED)	-0.004 ppb	62.9 %
88Sr (KED)	-0.004 ppb	79.9 %
89Y (KED)	100.000 %	
107Ag (KED)	0.000 ppb	182.1 %
114Cd (KED)	0.000 ppb	67.8 %
115In (KED)	100.000 %	
133Cs (KED)	0.000 ppb	142.3 %
138Ba (KED)	0.017 ppb	149.4 %
139La (KED)	0.000 ppb	875.3 %
140Ce (KED)	0.000 ppb	933.0 %
141Pr (KED)	0.000 ppb	43.5 %
142Nd (KED)	0.000 ppb	45.1 %
152Sm (KED)	0.000 ppb	353.9 %
153Eu (KED)	0.000 ppb	165.8 %
158Gd (KED)	0.000 ppb	26.2 %
159Tb (KED)	100.000 %	
164Dy (KED)	0.000 ppb	653.7 %
166Er (KED)	0.000 ppb	253.0 %
169Tm (KED)	0.000 ppb	322.0 %
174Yb (KED)	0.000 ppb	150.8 %
175Lu (KED)	0.002 ppb	234.9 %
205Tl (KED)	0.000 ppb	223.5 %
208Pb (KED)	0.000 ppb	348.6 %
209Bi (KED)	100.000 %	
232Th (KED)	0.000 ppb	141.6 %
238U (KED)	0.000 ppb	90.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	100.000 %	2,955 cps	1.0 %
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	0.537 ppb	881 cps	8.8 %
24Mg (KED)	-0.059 ppb	160 cps	12.7 %
27Al (KED)	0.162 ppb	131 cps	3.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.000 %	54,025 cps	1.2 %
51V (KED)	0.000 ppb	8 cps	24.7 %
52Cr (KED)	-0.001 ppb	77 cps	23.0 %
55Mn (KED)	-0.002 ppb	54 cps	19.7 %
56Fe (KED)	0.106 ppb	3,622 cps	69.3 %
58Ni (KED)	0.000 ppb	359 cps	13.0 %
59Co (KED)	0.000 ppb	28 cps	48.5 %
63Cu (KED)	0.001 ppb	578 cps	1.5 %
64Zn (KED)	-0.090 ppb	3,194 cps	5.8 %
69Ga (KED)	0.002 ppb	99 cps	39.1 %
75As (KED)	0.004 ppb	18 cps	43.3 %
80Se (KED)	0.059 ppb	1,382 cps	4.6 %
85Rb (KED)	-0.004 ppb	60 cps	25.5 %
88Sr (KED)	-0.004 ppb	82 cps	36.8 %
89Y (KED)	100.000 %	466,070 cps	0.7 %
107Ag (KED)	0.000 ppb	21 cps	32.9 %
114Cd (KED)	0.000 ppb	38 cps	18.4 %
115In (KED)	100.000 %	829,846 cps	2.4 %
133Cs (KED)	0.000 ppb	28 cps	42.1 %
138Ba (KED)	0.017 ppb	2,233 cps	51.0 %
139La (KED)	0.000 ppb	28 cps	6.9 %
140Ce (KED)	0.000 ppb	329 cps	5.6 %
141Pr (KED)	0.000 ppb	10 cps	33.3 %
142Nd (KED)	0.000 ppb	42 cps	16.4 %
152Sm (KED)	0.000 ppb	4 cps	173.2 %
153Eu (KED)	0.000 ppb	4 cps	86.6 %
158Gd (KED)	0.000 ppb	9 cps	21.7 %
159Tb (KED)	100.000 %	4,310,233 cps	1.6 %
164Dy (KED)	0.000 ppb	18 cps	75.8 %
166Er (KED)	0.000 ppb	297 cps	9.2 %
169Tm (KED)	0.000 ppb	10 cps	33.3 %
174Yb (KED)	0.000 ppb	21 cps	55.5 %
175Lu (KED)	0.002 ppb	18,439 cps	3.3 %
205Tl (KED)	0.000 ppb	28 cps	45.4 %
208Pb (KED)	0.000 ppb	4,267 cps	2.1 %
209Bi (KED)	100.000 %	3,529,741 cps	1.4 %
232Th (KED)	0.000 ppb	103 cps	22.6 %
238U (KED)	0.000 ppb	132 cps	55.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 3

Analysis name: 0+20

Analysis started at: 11/4/2021 2:52:05 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	100.639 %	
9Be (KED)	0.000 ppb	1.7 %
11B (KED)	0.000 ppb	0.0 %
24Mg (KED)	0.000 ppb	0.2 %
27Al (KED)	0.000 ppb	0.1 %
45Sc (KED)	100.250 %	
51V (KED)	0.000 ppb	1.2 %
52Cr (KED)	0.000 ppb	0.1 %
55Mn (KED)	0.000 ppb	0.2 %
56Fe (KED)	0.000 ppb	0.0 %
58Ni (KED)	0.000 ppb	0.1 %
59Co (KED)	0.000 ppb	0.2 %
63Cu (KED)	0.000 ppb	0.1 %
64Zn (KED)	0.000 ppb	0.0 %
69Ga (KED)	0.000 ppb	0.1 %
75As (KED)	0.000 ppb	0.5 %
80Se (KED)	0.000 ppb	0.1 %
85Rb (KED)	0.000 ppb	0.3 %
88Sr (KED)	0.000 ppb	0.0 %
89Y (KED)	100.993 %	
107Ag (KED)	0.000 ppb	0.6 %
114Cd (KED)	0.000 ppb	0.3 %
115In (KED)	101.573 %	
133Cs (KED)	0.000 ppb	0.3 %
138Ba (KED)	0.000 ppb	0.1 %
139La (KED)	0.000 ppb	0.2 %
140Ce (KED)	0.000 ppb	0.2 %
141Pr (KED)	0.000 ppb	0.7 %
142Nd (KED)	0.000 ppb	0.2 %
152Sm (KED)	0.000 ppb	0.9 %
153Eu (KED)	0.000 ppb	0.5 %
158Gd (KED)	0.000 ppb	1.7 %
159Tb (KED)	99.105 %	
164Dy (KED)	0.000 ppb	0.5 %
166Er (KED)	0.000 ppb	0.0 %
169Tm (KED)	0.000 ppb	0.6 %
174Yb (KED)	0.000 ppb	0.3 %
175Lu (KED)	0.000 ppb	0.0 %
205Tl (KED)	0.000 ppb	0.1 %
208Pb (KED)	0.000 ppb	0.0 %
209Bi (KED)	100.515 %	
232Th (KED)	0.000 ppb	0.3 %
238U (KED)	0.000 ppb	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	100.639 %	2,974 cps	4.8 %
9Be (KED)	0.000 ppb	1 cps	173.2 %
11B (KED)	0.000 ppb	843 cps	4.9 %
24Mg (KED)	0.000 ppb	196 cps	13.7 %
27Al (KED)	0.000 ppb	108 cps	7.8 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.250 %	54,159 cps	0.7 %
51V (KED)	0.000 ppb	4 cps	114.6 %
52Cr (KED)	0.000 ppb	92 cps	12.7 %
55Mn (KED)	0.000 ppb	67 cps	15.0 %
56Fe (KED)	0.000 ppb	2,210 cps	3.8 %
58Ni (KED)	0.000 ppb	354 cps	11.2 %
59Co (KED)	0.000 ppb	29 cps	17.6 %
63Cu (KED)	0.000 ppb	553 cps	7.9 %
64Zn (KED)	0.000 ppb	3,735 cps	1.1 %
69Ga (KED)	0.000 ppb	89 cps	8.7 %
75As (KED)	0.000 ppb	11 cps	45.8 %
80Se (KED)	0.000 ppb	1,368 cps	5.5 %
85Rb (KED)	0.000 ppb	86 cps	33.6 %
88Sr (KED)	0.000 ppb	122 cps	1.6 %
89Y (KED)	100.993 %	470,700 cps	0.9 %
107Ag (KED)	0.000 ppb	18 cps	57.3 %
114Cd (KED)	0.000 ppb	29 cps	26.6 %
115In (KED)	101.573 %	842,903 cps	1.1 %
133Cs (KED)	0.000 ppb	20 cps	33.3 %
138Ba (KED)	0.000 ppb	1,475 cps	7.7 %
139La (KED)	0.000 ppb	28 cps	25.0 %
140Ce (KED)	0.000 ppb	329 cps	19.8 %
141Pr (KED)	0.000 ppb	18 cps	65.8 %
142Nd (KED)	0.000 ppb	56 cps	18.3 %
152Sm (KED)	0.000 ppb	2 cps	86.6 %
153Eu (KED)	0.000 ppb	7 cps	50.0 %
158Gd (KED)	0.000 ppb	1 cps	173.2 %
159Tb (KED)	99.105 %	4,271,658 cps	1.1 %
164Dy (KED)	0.000 ppb	16 cps	44.6 %
166Er (KED)	0.000 ppb	307 cps	3.9 %
169Tm (KED)	0.000 ppb	9 cps	57.3 %
174Yb (KED)	0.000 ppb	13 cps	25.0 %
175Lu (KED)	0.000 ppb	17,915 cps	1.3 %
205Tl (KED)	0.000 ppb	22 cps	8.7 %
208Pb (KED)	0.000 ppb	4,252 cps	2.5 %
209Bi (KED)	100.515 %	3,547,930 cps	0.5 %
232Th (KED)	0.000 ppb	88 cps	25.3 %
238U (KED)	0.000 ppb	50 cps	26.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 4

Analysis name: 20+20

Analysis started at: 11/4/2021 2:55:17 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	101.128 %	
9Be (KED)	19.558 ppb	2.0 %
11B (KED)	18.943 ppb	9.5 %
24Mg (KED)	19.480 ppb	5.1 %
27Al (KED)	19.982 ppb	2.3 %
45Sc (KED)	102.786 %	
51V (KED)	19.914 ppb	2.3 %
52Cr (KED)	20.024 ppb	2.0 %
55Mn (KED)	19.818 ppb	0.9 %
56Fe (KED)	20.290 ppb	2.7 %
58Ni (KED)	20.218 ppb	2.8 %
59Co (KED)	20.061 ppb	2.3 %
63Cu (KED)	20.472 ppb	0.2 %
64Zn (KED)	20.206 ppb	0.3 %
69Ga (KED)	20.024 ppb	1.0 %
75As (KED)	19.998 ppb	1.1 %
80Se (KED)	19.482 ppb	3.5 %
85Rb (KED)	20.142 ppb	0.5 %
88Sr (KED)	19.955 ppb	0.7 %
89Y (KED)	102.504 %	
107Ag (KED)	20.078 ppb	0.6 %
114Cd (KED)	20.225 ppb	1.2 %
115In (KED)	100.211 %	
133Cs (KED)	20.687 ppb	1.8 %
138Ba (KED)	19.775 ppb	3.0 %
139La (KED)	19.436 ppb	0.3 %
140Ce (KED)	19.244 ppb	1.2 %
141Pr (KED)	19.461 ppb	2.3 %
142Nd (KED)	19.874 ppb	1.6 %
152Sm (KED)	19.921 ppb	2.1 %
153Eu (KED)	19.858 ppb	3.1 %
158Gd (KED)	19.858 ppb	3.4 %
159Tb (KED)	101.475 %	
164Dy (KED)	19.970 ppb	1.1 %
166Er (KED)	19.836 ppb	3.8 %
169Tm (KED)	20.205 ppb	3.8 %
174Yb (KED)	19.803 ppb	1.7 %
175Lu (KED)	19.630 ppb	1.6 %
205Tl (KED)	19.255 ppb	0.6 %
208Pb (KED)	19.131 ppb	1.0 %
209Bi (KED)	101.131 %	
232Th (KED)	19.752 ppb	1.2 %
238U (KED)	19.842 ppb	1.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	101.128 %	2,988 cps	5.0 %
9Be (KED)	19.558 ppb	3,234 cps	3.3 %
11B (KED)	18.943 ppb	2,386 cps	3.3 %
24Mg (KED)	19.480 ppb	11,930 cps	1.1 %
27Al (KED)	19.982 ppb	3,102 cps	2.6 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.786 %	55,530 cps	1.7 %
51V (KED)	19.914 ppb	199,965 cps	0.9 %
52Cr (KED)	20.024 ppb	316,050 cps	0.8 %
55Mn (KED)	19.818 ppb	148,769 cps	1.2 %
56Fe (KED)	20.290 ppb	284,104 cps	1.0 %
58Ni (KED)	20.218 ppb	367,493 cps	1.1 %
59Co (KED)	20.061 ppb	596,554 cps	0.6 %
63Cu (KED)	20.472 ppb	466,242 cps	0.3 %
64Zn (KED)	20.206 ppb	119,713 cps	0.6 %
69Ga (KED)	20.024 ppb	144,172 cps	1.3 %
75As (KED)	19.998 ppb	33,129 cps	1.3 %
80Se (KED)	19.482 ppb	10,809 cps	3.3 %
85Rb (KED)	20.142 ppb	126,494 cps	0.5 %
88Sr (KED)	19.955 ppb	176,435 cps	0.6 %
89Y (KED)	102.504 %	477,741 cps	0.3 %
107Ag (KED)	20.078 ppb	1,166,924 cps	0.9 %
114Cd (KED)	20.225 ppb	415,605 cps	0.9 %
115In (KED)	100.211 %	831,595 cps	0.4 %
133Cs (KED)	20.687 ppb	624,802 cps	1.5 %
138Ba (KED)	19.775 ppb	849,569 cps	1.6 %
139La (KED)	19.436 ppb	1,838,562 cps	1.4 %
140Ce (KED)	19.244 ppb	2,425,592 cps	1.5 %
141Pr (KED)	19.461 ppb	2,480,044 cps	0.6 %
142Nd (KED)	19.874 ppb	1,018,835 cps	1.6 %
152Sm (KED)	19.921 ppb	890,001 cps	0.4 %
153Eu (KED)	19.858 ppb	1,793,243 cps	1.4 %
158Gd (KED)	19.858 ppb	1,217,022 cps	2.2 %
159Tb (KED)	101.475 %	4,373,823 cps	1.7 %
164Dy (KED)	19.970 ppb	1,345,229 cps	1.2 %
166Er (KED)	19.836 ppb	1,569,721 cps	2.6 %
169Tm (KED)	20.205 ppb	5,258,236 cps	2.4 %
174Yb (KED)	19.803 ppb	1,850,280 cps	0.2 %
175Lu (KED)	19.630 ppb	3,056,301 cps	1.8 %
205Tl (KED)	19.255 ppb	3,556,344 cps	1.8 %
208Pb (KED)	19.131 ppb	2,541,484 cps	1.1 %
209Bi (KED)	101.131 %	3,569,672 cps	1.2 %
232Th (KED)	19.752 ppb	5,312,405 cps	1.1 %
238U (KED)	19.842 ppb	5,923,704 cps	1.1 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 5

Analysis name: 50+20

Analysis started at: 11/4/2021 2:58:31 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	100.414 %	
9Be (KED)	48.989 ppb	6.2 %
11B (KED)	46.763 ppb	1.2 %
24Mg (KED)	48.026 ppb	4.4 %
27Al (KED)	49.889 ppb	2.4 %
45Sc (KED)	101.520 %	
51V (KED)	49.844 ppb	1.7 %
52Cr (KED)	49.804 ppb	1.1 %
55Mn (KED)	50.265 ppb	1.3 %
56Fe (KED)	50.383 ppb	1.1 %
58Ni (KED)	50.760 ppb	1.3 %
59Co (KED)	49.838 ppb	1.0 %
63Cu (KED)	51.119 ppb	1.9 %
64Zn (KED)	50.559 ppb	1.2 %
69Ga (KED)	50.179 ppb	0.5 %
75As (KED)	50.937 ppb	0.8 %
80Se (KED)	50.484 ppb	4.5 %
85Rb (KED)	50.472 ppb	2.0 %
88Sr (KED)	49.910 ppb	4.2 %
89Y (KED)	101.341 %	
107Ag (KED)	48.173 ppb	0.9 %
114Cd (KED)	49.345 ppb	0.2 %
115In (KED)	102.109 %	
133Cs (KED)	51.061 ppb	1.9 %
138Ba (KED)	48.708 ppb	2.0 %
139La (KED)	49.164 ppb	0.4 %
140Ce (KED)	49.505 ppb	2.1 %
141Pr (KED)	48.876 ppb	1.8 %
142Nd (KED)	47.304 ppb	2.0 %
152Sm (KED)	48.374 ppb	2.3 %
153Eu (KED)	49.692 ppb	2.2 %
158Gd (KED)	47.894 ppb	1.4 %
159Tb (KED)	103.497 %	
164Dy (KED)	47.562 ppb	0.9 %
166Er (KED)	48.318 ppb	3.2 %
169Tm (KED)	49.730 ppb	1.8 %
174Yb (KED)	49.206 ppb	1.5 %
175Lu (KED)	49.051 ppb	0.7 %
205Tl (KED)	49.218 ppb	1.4 %
208Pb (KED)	49.371 ppb	1.0 %
209Bi (KED)	101.098 %	
232Th (KED)	49.577 ppb	1.3 %
238U (KED)	50.220 ppb	1.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	100.414 %	2,967 cps	3.3 %
9Be (KED)	48.989 ppb	8,036 cps	3.5 %
11B (KED)	46.763 ppb	4,621 cps	2.7 %
24Mg (KED)	48.026 ppb	28,937 cps	1.2 %
27Al (KED)	49.889 ppb	7,484 cps	2.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.520 %	54,846 cps	1.3 %
51V (KED)	49.844 ppb	494,398 cps	0.8 %
52Cr (KED)	49.804 ppb	776,391 cps	1.2 %
55Mn (KED)	50.265 ppb	372,603 cps	1.8 %
56Fe (KED)	50.383 ppb	693,604 cps	0.4 %
58Ni (KED)	50.760 ppb	910,924 cps	0.4 %
59Co (KED)	49.838 ppb	1,464,023 cps	0.5 %
63Cu (KED)	51.119 ppb	1,150,250 cps	3.0 %
64Zn (KED)	50.559 ppb	290,544 cps	2.6 %
69Ga (KED)	50.179 ppb	357,024 cps	1.2 %
75As (KED)	50.937 ppb	83,403 cps	0.9 %
80Se (KED)	50.484 ppb	25,494 cps	2.8 %
85Rb (KED)	50.472 ppb	313,179 cps	0.6 %
88Sr (KED)	49.910 ppb	435,907 cps	2.7 %
89Y (KED)	101.341 %	472,320 cps	1.7 %
107Ag (KED)	48.173 ppb	2,852,585 cps	0.6 %
114Cd (KED)	49.345 ppb	1,033,195 cps	1.3 %
115In (KED)	102.109 %	847,344 cps	1.1 %
133Cs (KED)	51.061 ppb	1,571,219 cps	0.8 %
138Ba (KED)	48.708 ppb	2,132,881 cps	2.7 %
139La (KED)	49.164 ppb	4,743,341 cps	0.7 %
140Ce (KED)	49.505 ppb	6,363,293 cps	1.3 %
141Pr (KED)	48.876 ppb	6,353,818 cps	1.1 %
142Nd (KED)	47.304 ppb	2,473,282 cps	1.4 %
152Sm (KED)	48.374 ppb	2,204,570 cps	1.7 %
153Eu (KED)	49.692 ppb	4,577,689 cps	1.3 %
158Gd (KED)	47.894 ppb	2,994,583 cps	1.2 %
159Tb (KED)	103.497 %	4,460,982 cps	0.9 %
164Dy (KED)	47.562 ppb	3,267,762 cps	0.3 %
166Er (KED)	48.318 ppb	3,900,239 cps	2.6 %
169Tm (KED)	49.730 ppb	13,206,509 cps	2.6 %
174Yb (KED)	49.206 ppb	4,690,512 cps	2.4 %
175Lu (KED)	49.051 ppb	7,761,985 cps	1.5 %
205Tl (KED)	49.218 ppb	9,087,201 cps	1.6 %
208Pb (KED)	49.371 ppb	6,550,101 cps	1.4 %
209Bi (KED)	101.098 %	3,568,503 cps	0.4 %
232Th (KED)	49.577 ppb	13,329,745 cps	0.9 %
238U (KED)	50.220 ppb	14,988,719 cps	1.1 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 6

Analysis name: 100+20

Analysis started at: 11/4/2021 3:01:35 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	99.436 %	
9Be (KED)	100.594 ppb	2.1 %
11B (KED)	101.830 ppb	2.9 %
24Mg (KED)	101.091 ppb	3.7 %
27Al (KED)	100.059 ppb	2.9 %
45Sc (KED)	103.811 %	
51V (KED)	100.095 ppb	1.3 %
52Cr (KED)	100.093 ppb	0.8 %
55Mn (KED)	99.904 ppb	2.1 %
56Fe (KED)	99.751 ppb	1.1 %
58Ni (KED)	99.576 ppb	0.7 %
59Co (KED)	100.069 ppb	1.4 %
63Cu (KED)	99.346 ppb	0.8 %
64Zn (KED)	99.679 ppb	0.8 %
69Ga (KED)	99.906 ppb	0.6 %
75As (KED)	99.532 ppb	1.5 %
80Se (KED)	99.862 ppb	1.1 %
85Rb (KED)	99.736 ppb	1.6 %
88Sr (KED)	100.054 ppb	0.6 %
89Y (KED)	103.839 %	
107Ag (KED)	100.898 ppb	1.9 %
114Cd (KED)	100.282 ppb	1.7 %
115In (KED)	102.767 %	
133Cs (KED)	99.332 ppb	0.7 %
138Ba (KED)	100.691 ppb	1.2 %
139La (KED)	100.531 ppb	0.4 %
140Ce (KED)	100.399 ppb	1.9 %
141Pr (KED)	100.670 ppb	1.1 %
142Nd (KED)	101.373 ppb	2.0 %
152Sm (KED)	100.829 ppb	0.8 %
153Eu (KED)	100.183 ppb	2.0 %
158Gd (KED)	101.081 ppb	3.0 %
159Tb (KED)	102.871 %	
164Dy (KED)	101.225 ppb	1.3 %
166Er (KED)	100.874 ppb	2.5 %
169Tm (KED)	100.094 ppb	1.6 %
174Yb (KED)	100.436 ppb	1.3 %
175Lu (KED)	100.548 ppb	1.5 %
205Tl (KED)	100.540 ppb	1.8 %
208Pb (KED)	100.488 ppb	0.9 %
209Bi (KED)	99.764 %	
232Th (KED)	100.261 ppb	0.8 %
238U (KED)	99.922 ppb	3.2 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	99.436 %	2,938 cps	3.3 %
9Be (KED)	100.594 ppb	16,352 cps	1.3 %
11B (KED)	101.830 ppb	8,980 cps	2.1 %
24Mg (KED)	101.091 ppb	60,113 cps	1.3 %
27Al (KED)	100.059 ppb	15,239 cps	3.2 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.811 %	56,084 cps	0.4 %
51V (KED)	100.095 ppb	1,015,329 cps	0.9 %
52Cr (KED)	100.093 ppb	1,595,544 cps	0.7 %
55Mn (KED)	99.904 ppb	757,175 cps	1.8 %
56Fe (KED)	99.751 ppb	1,402,083 cps	0.7 %
58Ni (KED)	99.576 ppb	1,827,131 cps	0.8 %
59Co (KED)	100.069 ppb	3,006,059 cps	1.1 %
63Cu (KED)	99.346 ppb	2,289,809 cps	0.9 %
64Zn (KED)	99.679 ppb	583,150 cps	0.5 %
69Ga (KED)	99.906 ppb	728,313 cps	0.9 %
75As (KED)	99.532 ppb	166,992 cps	1.5 %
80Se (KED)	99.862 ppb	50,318 cps	0.6 %
85Rb (KED)	99.736 ppb	634,150 cps	1.3 %
88Sr (KED)	100.054 ppb	895,663 cps	0.6 %
89Y (KED)	103.839 %	483,963 cps	0.4 %
107Ag (KED)	100.898 ppb	6,013,310 cps	1.5 %
114Cd (KED)	100.282 ppb	2,113,127 cps	1.4 %
115In (KED)	102.767 %	852,811 cps	0.4 %
133Cs (KED)	99.332 ppb	3,076,677 cps	0.7 %
138Ba (KED)	100.691 ppb	4,380,415 cps	1.6 %
139La (KED)	100.531 ppb	9,640,892 cps	1.3 %
140Ce (KED)	100.399 ppb	12,826,887 cps	1.1 %
141Pr (KED)	100.670 ppb	13,008,230 cps	0.9 %
142Nd (KED)	101.373 ppb	5,268,124 cps	1.3 %
152Sm (KED)	100.829 ppb	4,567,498 cps	0.2 %
153Eu (KED)	100.183 ppb	9,173,079 cps	1.0 %
158Gd (KED)	101.081 ppb	6,280,965 cps	2.1 %
159Tb (KED)	102.871 %	4,433,986 cps	1.0 %
164Dy (KED)	101.225 ppb	6,912,550 cps	1.0 %
166Er (KED)	100.874 ppb	8,093,267 cps	2.1 %
169Tm (KED)	100.094 ppb	26,416,978 cps	1.6 %
174Yb (KED)	100.436 ppb	9,514,944 cps	1.4 %
175Lu (KED)	100.548 ppb	15,796,311 cps	2.5 %
205Tl (KED)	100.540 ppb	18,315,650 cps	1.0 %
208Pb (KED)	100.488 ppb	13,151,392 cps	1.2 %
209Bi (KED)	99.764 %	3,521,426 cps	0.9 %
232Th (KED)	100.261 ppb	26,601,341 cps	0.4 %
238U (KED)	99.922 ppb	29,424,707 cps	2.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 7

Analysis name: 315042603860464 jian

Analysis started at: 11/4/2021 3:04:44 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	100.526 %	2.4 %
9Be (KED)	0.047 ppb	26.8 %
11B (KED)	-5.813 ppb	13.4 %
24Mg (KED)	175.819 ppb	3.7 %
27Al (KED)	248.699 ppb	1.4 %
45Sc (KED)	100.064 %	0.7 %
51V (KED)	0.507 ppb	0.6 %
52Cr (KED)	0.839 ppb	2.0 %
55Mn (KED)	6.016 ppb	1.0 %
56Fe (KED)	273.265 ppb	1.0 %
58Ni (KED)	1.370 ppb	3.7 %
59Co (KED)	0.125 ppb	3.2 %
63Cu (KED)	5.344 ppb	0.2 %
64Zn (KED)	58.148 ppb	0.8 %
69Ga (KED)	1.244 ppb	2.0 %
75As (KED)	0.255 ppb	7.9 %
80Se (KED)	0.100 ppb	20.3 %
85Rb (KED)	1.432 ppb	1.9 %
88Sr (KED)	3.034 ppb	1.7 %
89Y (KED)	99.874 %	0.7 %
107Ag (KED)	0.109 ppb	14.3 %
114Cd (KED)	0.019 ppb	6.5 %
115In (KED)	97.761 %	0.7 %
133Cs (KED)	0.063 ppb	6.7 %
138Ba (KED)	3.729 ppb	1.2 %
139La (KED)	0.201 ppb	1.3 %
140Ce (KED)	0.419 ppb	1.0 %
141Pr (KED)	0.052 ppb	2.2 %
142Nd (KED)	0.266 ppb	1.8 %
152Sm (KED)	0.042 ppb	1.9 %
153Eu (KED)	0.010 ppb	19.5 %
158Gd (KED)	0.037 ppb	3.0 %
159Tb (KED)	102.434 %	1.7 %
164Dy (KED)	0.027 ppb	9.3 %
166Er (KED)	0.014 ppb	21.9 %
169Tm (KED)	0.004 ppb	48.8 %
174Yb (KED)	0.014 ppb	21.1 %
175Lu (KED)	-0.013 ppb	35.9 %
205Tl (KED)	0.012 ppb	15.2 %
208Pb (KED)	0.599 ppb	3.8 %
209Bi (KED)	96.246 %	1.4 %
232Th (KED)	0.238 ppb	56.5 %
238U (KED)	0.029 ppb	10.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	100.526 %	2,970 cps	2.4 %
9Be (KED)	0.047 ppb	9 cps	21.7 %
11B (KED)	-5.813 ppb	372 cps	16.3 %
24Mg (KED)	175.819 ppb	105,572 cps	1.7 %
27Al (KED)	248.699 ppb	36,351 cps	2.0 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.064 %	54,059 cps	0.7 %
51V (KED)	0.507 ppb	4,962 cps	0.9 %
52Cr (KED)	0.839 ppb	12,981 cps	2.5 %
55Mn (KED)	6.016 ppb	44,012 cps	0.3 %
56Fe (KED)	273.265 ppb	3,698,442 cps	0.5 %
58Ni (KED)	1.370 ppb	24,580 cps	3.7 %
59Co (KED)	0.125 ppb	3,643 cps	3.9 %
63Cu (KED)	5.344 ppb	118,980 cps	0.7 %
64Zn (KED)	58.148 ppb	328,737 cps	1.1 %
69Ga (KED)	1.244 ppb	8,806 cps	2.2 %
75As (KED)	0.255 ppb	422 cps	7.9 %
80Se (KED)	0.100 ppb	1,400 cps	0.2 %
85Rb (KED)	1.432 ppb	8,840 cps	2.0 %
88Sr (KED)	3.034 ppb	26,238 cps	1.0 %
89Y (KED)	99.874 %	465,481 cps	0.7 %
107Ag (KED)	0.109 ppb	6,172 cps	14.4 %
114Cd (KED)	0.019 ppb	414 cps	5.7 %
115In (KED)	97.761 %	811,265 cps	0.7 %
133Cs (KED)	0.063 ppb	1,862 cps	6.8 %
138Ba (KED)	3.729 ppb	162,978 cps	0.5 %
139La (KED)	0.201 ppb	19,220 cps	2.1 %
140Ce (KED)	0.419 ppb	53,680 cps	1.2 %
141Pr (KED)	0.052 ppb	6,674 cps	3.5 %
142Nd (KED)	0.266 ppb	13,832 cps	1.1 %
152Sm (KED)	0.042 ppb	1,903 cps	0.9 %
153Eu (KED)	0.010 ppb	923 cps	20.9 %
158Gd (KED)	0.037 ppb	2,285 cps	4.6 %
159Tb (KED)	102.434 %	4,415,136 cps	1.7 %
164Dy (KED)	0.027 ppb	1,881 cps	9.9 %
166Er (KED)	0.014 ppb	1,452 cps	18.8 %
169Tm (KED)	0.004 ppb	1,195 cps	50.0 %
174Yb (KED)	0.014 ppb	1,370 cps	22.4 %
175Lu (KED)	-0.013 ppb	16,475 cps	6.0 %
205Tl (KED)	0.012 ppb	2,075 cps	15.8 %
208Pb (KED)	0.599 ppb	79,667 cps	2.1 %
209Bi (KED)	96.246 %	3,397,231 cps	1.4 %
232Th (KED)	0.238 ppb	61,093 cps	56.8 %
238U (KED)	0.029 ppb	8,292 cps	11.1 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 8

Analysis name: 315047603860522 jian

Analysis started at: 11/4/2021 3:07:51 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	102.294 %	4.4 %
9Be (KED)	0.040 ppb	60.4 %
11B (KED)	-7.244 ppb	6.7 %
24Mg (KED)	193.712 ppb	3.8 %
27Al (KED)	316.707 ppb	2.0 %
45Sc (KED)	100.826 %	1.9 %
51V (KED)	0.621 ppb	4.7 %
52Cr (KED)	0.918 ppb	1.8 %
55Mn (KED)	7.149 ppb	3.0 %
56Fe (KED)	333.102 ppb	1.8 %
58Ni (KED)	1.549 ppb	2.5 %
59Co (KED)	0.144 ppb	1.9 %
63Cu (KED)	2.499 ppb	1.8 %
64Zn (KED)	62.210 ppb	0.4 %
69Ga (KED)	1.228 ppb	2.8 %
75As (KED)	0.397 ppb	8.0 %
80Se (KED)	0.024 ppb	160.8 %
85Rb (KED)	1.107 ppb	3.4 %
88Sr (KED)	2.734 ppb	3.3 %
89Y (KED)	100.215 %	0.6 %
107Ag (KED)	0.025 ppb	7.2 %
114Cd (KED)	0.020 ppb	5.4 %
115In (KED)	97.238 %	2.0 %
133Cs (KED)	0.068 ppb	3.0 %
138Ba (KED)	3.753 ppb	2.8 %
139La (KED)	0.261 ppb	1.6 %
140Ce (KED)	0.557 ppb	1.9 %
141Pr (KED)	0.063 ppb	4.9 %
142Nd (KED)	0.356 ppb	2.2 %
152Sm (KED)	0.052 ppb	6.3 %
153Eu (KED)	0.010 ppb	2.6 %
158Gd (KED)	0.045 ppb	6.6 %
159Tb (KED)	100.427 %	1.7 %
164Dy (KED)	0.033 ppb	2.4 %
166Er (KED)	0.016 ppb	2.9 %
169Tm (KED)	0.002 ppb	8.7 %
174Yb (KED)	0.014 ppb	7.7 %
175Lu (KED)	-0.018 ppb	9.5 %
205Tl (KED)	0.008 ppb	4.6 %
208Pb (KED)	0.465 ppb	1.6 %
209Bi (KED)	95.539 %	0.9 %
232Th (KED)	0.109 ppb	2.0 %
238U (KED)	0.017 ppb	3.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	102.294 %	3,023 cps	4.4 %
9Be (KED)	0.040 ppb	8 cps	49.5 %
11B (KED)	-7.244 ppb	260 cps	11.0 %
24Mg (KED)	193.712 ppb	118,277 cps	1.0 %
27Al (KED)	316.707 ppb	46,600 cps	0.5 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.826 %	54,471 cps	1.9 %
51V (KED)	0.621 ppb	6,117 cps	2.9 %
52Cr (KED)	0.918 ppb	14,304 cps	0.3 %
55Mn (KED)	7.149 ppb	52,669 cps	1.1 %
56Fe (KED)	333.102 ppb	4,541,532 cps	1.3 %
58Ni (KED)	1.549 ppb	27,941 cps	1.0 %
59Co (KED)	0.144 ppb	4,227 cps	1.7 %
63Cu (KED)	2.499 ppb	56,122 cps	1.3 %
64Zn (KED)	62.210 ppb	352,633 cps	0.3 %
69Ga (KED)	1.228 ppb	8,724 cps	2.9 %
75As (KED)	0.397 ppb	654 cps	8.5 %
80Se (KED)	0.024 ppb	1,369 cps	2.0 %
85Rb (KED)	1.107 ppb	6,879 cps	2.7 %
88Sr (KED)	2.734 ppb	23,737 cps	2.6 %
89Y (KED)	100.215 %	467,071 cps	0.6 %
107Ag (KED)	0.025 ppb	1,399 cps	7.4 %
114Cd (KED)	0.020 ppb	429 cps	5.9 %
115In (KED)	97.238 %	806,929 cps	2.0 %
133Cs (KED)	0.068 ppb	2,017 cps	3.6 %
138Ba (KED)	3.753 ppb	160,808 cps	2.1 %
139La (KED)	0.261 ppb	24,477 cps	0.2 %
140Ce (KED)	0.557 ppb	69,757 cps	0.3 %
141Pr (KED)	0.063 ppb	8,015 cps	4.1 %
142Nd (KED)	0.356 ppb	18,096 cps	1.8 %
152Sm (KED)	0.052 ppb	2,290 cps	7.9 %
153Eu (KED)	0.010 ppb	867 cps	3.7 %
158Gd (KED)	0.045 ppb	2,757 cps	4.9 %
159Tb (KED)	100.427 %	4,328,629 cps	1.7 %
164Dy (KED)	0.033 ppb	2,200 cps	2.8 %
166Er (KED)	0.016 ppb	1,536 cps	0.7 %
169Tm (KED)	0.002 ppb	642 cps	7.0 %
174Yb (KED)	0.014 ppb	1,311 cps	9.2 %
175Lu (KED)	-0.018 ppb	15,411 cps	3.3 %
205Tl (KED)	0.008 ppb	1,382 cps	5.3 %
208Pb (KED)	0.465 ppb	62,275 cps	2.3 %
209Bi (KED)	95.539 %	3,372,289 cps	0.9 %
232Th (KED)	0.109 ppb	27,859 cps	2.8 %
238U (KED)	0.017 ppb	4,762 cps	2.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 9

Analysis name: 315047603860451

Analysis started at: 11/4/2021 3:10:55 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	104.777 %	2.3 %
9Be (KED)	0.026 ppb	90.3 %
11B (KED)	-7.410 ppb	2.7 %
24Mg (KED)	139.686 ppb	3.0 %
27Al (KED)	178.936 ppb	0.6 %
45Sc (KED)	100.299 %	1.2 %
51V (KED)	0.367 ppb	2.8 %
52Cr (KED)	0.689 ppb	2.5 %
55Mn (KED)	5.695 ppb	0.9 %
56Fe (KED)	192.351 ppb	1.5 %
58Ni (KED)	1.013 ppb	2.7 %
59Co (KED)	0.096 ppb	4.1 %
63Cu (KED)	3.288 ppb	1.2 %
64Zn (KED)	63.098 ppb	0.7 %
69Ga (KED)	0.794 ppb	4.1 %
75As (KED)	0.220 ppb	12.9 %
80Se (KED)	0.069 ppb	155.8 %
85Rb (KED)	0.705 ppb	6.1 %
88Sr (KED)	2.272 ppb	2.6 %
89Y (KED)	97.879 %	0.8 %
107Ag (KED)	0.013 ppb	6.7 %
114Cd (KED)	0.016 ppb	6.6 %
115In (KED)	96.580 %	1.4 %
133Cs (KED)	0.041 ppb	4.9 %
138Ba (KED)	2.446 ppb	1.4 %
139La (KED)	0.162 ppb	2.2 %
140Ce (KED)	0.344 ppb	2.1 %
141Pr (KED)	0.040 ppb	2.7 %
142Nd (KED)	0.218 ppb	2.0 %
152Sm (KED)	0.030 ppb	2.7 %
153Eu (KED)	0.005 ppb	8.7 %
158Gd (KED)	0.027 ppb	1.0 %
159Tb (KED)	99.409 %	0.3 %
164Dy (KED)	0.019 ppb	7.3 %
166Er (KED)	0.009 ppb	1.8 %
169Tm (KED)	0.001 ppb	6.8 %
174Yb (KED)	0.007 ppb	12.4 %
175Lu (KED)	-0.019 ppb	16.0 %
205Tl (KED)	0.006 ppb	1.9 %
208Pb (KED)	0.431 ppb	2.5 %
209Bi (KED)	93.313 %	0.9 %
232Th (KED)	0.064 ppb	3.0 %
238U (KED)	0.012 ppb	6.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	104.777 %	3,096 cps	2.3 %
9Be (KED)	0.026 ppb	6 cps	69.3 %
11B (KED)	-7.410 ppb	253 cps	4.7 %
24Mg (KED)	139.686 ppb	87,474 cps	1.1 %
27Al (KED)	178.936 ppb	26,245 cps	1.8 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.299 %	54,186 cps	1.2 %
51V (KED)	0.367 ppb	3,606 cps	3.6 %
52Cr (KED)	0.689 ppb	10,706 cps	1.3 %
55Mn (KED)	5.695 ppb	41,765 cps	0.6 %
56Fe (KED)	192.351 ppb	2,609,907 cps	0.4 %
58Ni (KED)	1.013 ppb	18,306 cps	1.8 %
59Co (KED)	0.096 ppb	2,826 cps	3.2 %
63Cu (KED)	3.288 ppb	71,952 cps	0.4 %
64Zn (KED)	63.098 ppb	349,276 cps	0.5 %
69Ga (KED)	0.794 ppb	5,542 cps	4.4 %
75As (KED)	0.220 ppb	359 cps	12.3 %
80Se (KED)	0.069 ppb	1,358 cps	4.4 %
85Rb (KED)	0.705 ppb	4,307 cps	5.7 %
88Sr (KED)	2.272 ppb	19,288 cps	2.1 %
89Y (KED)	97.879 %	456,185 cps	0.8 %
107Ag (KED)	0.013 ppb	752 cps	7.7 %
114Cd (KED)	0.016 ppb	341 cps	5.6 %
115In (KED)	96.580 %	801,466 cps	1.4 %
133Cs (KED)	0.041 ppb	1,212 cps	6.1 %
138Ba (KED)	2.446 ppb	104,270 cps	1.1 %
139La (KED)	0.162 ppb	15,001 cps	1.8 %
140Ce (KED)	0.344 ppb	42,839 cps	1.8 %
141Pr (KED)	0.040 ppb	5,021 cps	2.8 %
142Nd (KED)	0.218 ppb	11,019 cps	1.7 %
152Sm (KED)	0.030 ppb	1,327 cps	2.4 %
153Eu (KED)	0.005 ppb	487 cps	8.3 %
158Gd (KED)	0.027 ppb	1,612 cps	0.9 %
159Tb (KED)	99.409 %	4,284,780 cps	0.3 %
164Dy (KED)	0.019 ppb	1,239 cps	7.0 %
166Er (KED)	0.009 ppb	1,021 cps	1.5 %
169Tm (KED)	0.001 ppb	367 cps	6.6 %
174Yb (KED)	0.007 ppb	700 cps	12.3 %
175Lu (KED)	-0.019 ppb	15,046 cps	3.2 %
205Tl (KED)	0.006 ppb	961 cps	1.4 %
208Pb (KED)	0.431 ppb	56,723 cps	1.4 %
209Bi (KED)	93.313 %	3,293,713 cps	0.9 %
232Th (KED)	0.064 ppb	15,916 cps	2.7 %
238U (KED)	0.012 ppb	3,272 cps	5.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 10

Analysis name: 315047603860477 jian

Analysis started at: 11/4/2021 3:14:06 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.259 %	5.2 %
9Be (KED)	0.012 ppb	8.3 %
11B (KED)	-7.942 ppb	5.3 %
24Mg (KED)	172.261 ppb	5.6 %
27Al (KED)	290.369 ppb	1.7 %
45Sc (KED)	101.326 %	0.1 %
51V (KED)	0.581 ppb	2.5 %
52Cr (KED)	1.021 ppb	2.3 %
55Mn (KED)	6.247 ppb	0.9 %
56Fe (KED)	329.242 ppb	1.7 %
58Ni (KED)	1.446 ppb	2.6 %
59Co (KED)	0.137 ppb	5.1 %
63Cu (KED)	2.637 ppb	0.8 %
64Zn (KED)	60.744 ppb	0.7 %
69Ga (KED)	1.009 ppb	2.0 %
75As (KED)	0.257 ppb	7.3 %
80Se (KED)	0.073 ppb	116.1 %
85Rb (KED)	0.892 ppb	3.6 %
88Sr (KED)	2.664 ppb	0.6 %
89Y (KED)	99.349 %	0.3 %
107Ag (KED)	0.016 ppb	1.3 %
114Cd (KED)	0.015 ppb	13.8 %
115In (KED)	96.070 %	1.0 %
133Cs (KED)	0.058 ppb	1.3 %
138Ba (KED)	2.989 ppb	2.9 %
139La (KED)	0.227 ppb	3.9 %
140Ce (KED)	0.479 ppb	2.7 %
141Pr (KED)	0.054 ppb	1.1 %
142Nd (KED)	0.300 ppb	0.1 %
152Sm (KED)	0.043 ppb	5.7 %
153Eu (KED)	0.008 ppb	13.2 %
158Gd (KED)	0.037 ppb	1.9 %
159Tb (KED)	98.855 %	2.1 %
164Dy (KED)	0.029 ppb	0.2 %
166Er (KED)	0.014 ppb	6.4 %
169Tm (KED)	0.002 ppb	11.5 %
174Yb (KED)	0.013 ppb	5.8 %
175Lu (KED)	-0.021 ppb	7.7 %
205Tl (KED)	0.006 ppb	1.8 %
208Pb (KED)	0.415 ppb	2.6 %
209Bi (KED)	93.617 %	1.6 %
232Th (KED)	0.070 ppb	2.9 %
238U (KED)	0.013 ppb	8.1 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.259 %	3,169 cps	5.2 %
9Be (KED)	0.012 ppb	3 cps	0.0 %
11B (KED)	-7.942 ppb	213 cps	16.9 %
24Mg (KED)	172.261 ppb	110,218 cps	0.7 %
27Al (KED)	290.369 ppb	42,956 cps	1.7 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.326 %	54,741 cps	0.1 %
51V (KED)	0.581 ppb	5,755 cps	2.5 %
52Cr (KED)	1.021 ppb	15,984 cps	2.2 %
55Mn (KED)	6.247 ppb	46,279 cps	1.0 %
56Fe (KED)	329.242 ppb	4,511,983 cps	1.7 %
58Ni (KED)	1.446 ppb	26,253 cps	2.6 %
59Co (KED)	0.137 ppb	4,032 cps	5.0 %
63Cu (KED)	2.637 ppb	58,687 cps	0.9 %
64Zn (KED)	60.744 ppb	341,440 cps	0.5 %
69Ga (KED)	1.009 ppb	7,121 cps	2.3 %
75As (KED)	0.257 ppb	423 cps	6.9 %
80Se (KED)	0.073 ppb	1,380 cps	3.0 %
85Rb (KED)	0.892 ppb	5,512 cps	3.2 %
88Sr (KED)	2.664 ppb	22,931 cps	0.9 %
89Y (KED)	99.349 %	463,034 cps	0.3 %
107Ag (KED)	0.016 ppb	917 cps	1.7 %
114Cd (KED)	0.015 ppb	330 cps	12.9 %
115In (KED)	96.070 %	797,233 cps	1.0 %
133Cs (KED)	0.058 ppb	1,699 cps	1.1 %
138Ba (KED)	2.989 ppb	126,332 cps	1.0 %
139La (KED)	0.227 ppb	20,909 cps	1.8 %
140Ce (KED)	0.479 ppb	59,128 cps	0.7 %
141Pr (KED)	0.054 ppb	6,756 cps	1.1 %
142Nd (KED)	0.300 ppb	15,039 cps	2.0 %
152Sm (KED)	0.043 ppb	1,857 cps	7.9 %
153Eu (KED)	0.008 ppb	688 cps	12.2 %
158Gd (KED)	0.037 ppb	2,204 cps	0.7 %
159Tb (KED)	98.855 %	4,260,879 cps	2.1 %
164Dy (KED)	0.029 ppb	1,893 cps	2.2 %
166Er (KED)	0.014 ppb	1,365 cps	4.7 %
169Tm (KED)	0.002 ppb	503 cps	9.3 %
174Yb (KED)	0.013 ppb	1,158 cps	7.7 %
175Lu (KED)	-0.021 ppb	14,774 cps	1.7 %
205Tl (KED)	0.006 ppb	1,078 cps	0.7 %
208Pb (KED)	0.415 ppb	54,872 cps	0.9 %
209Bi (KED)	93.617 %	3,304,422 cps	1.6 %
232Th (KED)	0.070 ppb	17,480 cps	3.3 %
238U (KED)	0.013 ppb	3,653 cps	6.5 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 11

Analysis name: 315047603860529 jian

Analysis started at: 11/4/2021 3:17:15 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	109.328 %	3.3 %
9Be (KED)	0.050 ppb	112.3 %
11B (KED)	-4.998 ppb	2.5 %
24Mg (KED)	235.535 ppb	1.9 %
27Al (KED)	452.863 ppb	1.5 %
45Sc (KED)	101.859 %	1.8 %
51V (KED)	0.859 ppb	2.3 %
52Cr (KED)	1.211 ppb	0.9 %
55Mn (KED)	9.241 ppb	1.0 %
56Fe (KED)	442.597 ppb	1.4 %
58Ni (KED)	1.909 ppb	1.9 %
59Co (KED)	0.215 ppb	1.4 %
63Cu (KED)	2.808 ppb	0.6 %
64Zn (KED)	61.869 ppb	1.0 %
69Ga (KED)	1.499 ppb	0.4 %
75As (KED)	0.422 ppb	4.9 %
80Se (KED)	0.131 ppb	21.8 %
85Rb (KED)	1.399 ppb	1.6 %
88Sr (KED)	4.626 ppb	0.7 %
89Y (KED)	99.247 %	0.8 %
107Ag (KED)	0.015 ppb	4.6 %
114Cd (KED)	0.016 ppb	16.1 %
115In (KED)	94.922 %	0.7 %
133Cs (KED)	0.086 ppb	5.7 %
138Ba (KED)	4.502 ppb	1.7 %
139La (KED)	0.477 ppb	3.4 %
140Ce (KED)	0.993 ppb	4.2 %
141Pr (KED)	0.115 ppb	3.6 %
142Nd (KED)	0.601 ppb	2.4 %
152Sm (KED)	0.084 ppb	4.7 %
153Eu (KED)	0.013 ppb	3.6 %
158Gd (KED)	0.072 ppb	7.8 %
159Tb (KED)	97.279 %	2.3 %
164Dy (KED)	0.052 ppb	1.2 %
166Er (KED)	0.024 ppb	7.2 %
169Tm (KED)	0.004 ppb	6.9 %
174Yb (KED)	0.024 ppb	6.8 %
175Lu (KED)	-0.017 ppb	18.4 %
205Tl (KED)	0.007 ppb	5.7 %
208Pb (KED)	0.525 ppb	0.6 %
209Bi (KED)	91.271 %	1.4 %
232Th (KED)	0.215 ppb	3.2 %
238U (KED)	0.023 ppb	3.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	109.328 %	3,230 cps	3.3 %
9Be (KED)	0.050 ppb	10 cps	100.0 %
11B (KED)	-4.998 ppb	477 cps	3.0 %
24Mg (KED)	235.535 ppb	153,761 cps	1.5 %
27Al (KED)	452.863 ppb	67,275 cps	1.0 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.859 %	55,029 cps	1.8 %
51V (KED)	0.859 ppb	8,556 cps	3.9 %
52Cr (KED)	1.211 ppb	19,026 cps	1.1 %
55Mn (KED)	9.241 ppb	68,779 cps	1.7 %
56Fe (KED)	442.597 ppb	6,095,847 cps	1.3 %
58Ni (KED)	1.909 ppb	34,714 cps	0.5 %
59Co (KED)	0.215 ppb	6,382 cps	3.2 %
63Cu (KED)	2.808 ppb	62,384 cps	0.5 %
64Zn (KED)	61.869 ppb	347,327 cps	0.6 %
69Ga (KED)	1.499 ppb	10,530 cps	0.4 %
75As (KED)	0.422 ppb	687 cps	4.1 %
80Se (KED)	0.131 ppb	1,406 cps	0.1 %
85Rb (KED)	1.399 ppb	8,583 cps	2.4 %
88Sr (KED)	4.626 ppb	39,693 cps	0.4 %
89Y (KED)	99.247 %	462,561 cps	0.8 %
107Ag (KED)	0.015 ppb	829 cps	3.8 %
114Cd (KED)	0.016 ppb	348 cps	14.7 %
115In (KED)	94.922 %	787,705 cps	0.7 %
133Cs (KED)	0.086 ppb	2,478 cps	5.0 %
138Ba (KED)	4.502 ppb	186,572 cps	1.5 %
139La (KED)	0.477 ppb	43,259 cps	1.8 %
140Ce (KED)	0.993 ppb	120,226 cps	1.9 %
141Pr (KED)	0.115 ppb	14,109 cps	1.2 %
142Nd (KED)	0.601 ppb	29,603 cps	0.7 %
152Sm (KED)	0.084 ppb	3,618 cps	2.4 %
153Eu (KED)	0.013 ppb	1,101 cps	1.4 %
158Gd (KED)	0.072 ppb	4,233 cps	5.6 %
159Tb (KED)	97.279 %	4,192,965 cps	2.3 %
164Dy (KED)	0.052 ppb	3,382 cps	3.1 %
166Er (KED)	0.024 ppb	2,156 cps	5.6 %
169Tm (KED)	0.004 ppb	921 cps	8.1 %
174Yb (KED)	0.024 ppb	2,119 cps	4.7 %
175Lu (KED)	-0.017 ppb	15,037 cps	3.5 %
205Tl (KED)	0.007 ppb	1,262 cps	5.0 %
208Pb (KED)	0.525 ppb	66,749 cps	1.6 %
209Bi (KED)	91.271 %	3,221,615 cps	1.4 %
232Th (KED)	0.215 ppb	52,320 cps	2.0 %
238U (KED)	0.023 ppb	6,371 cps	2.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 12

Analysis name: 315042603860503 jian

Analysis started at: 11/4/2021 3:20:20 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.018 %	3.1 %
9Be (KED)	0.012 ppb	155.4 %
11B (KED)	-7.274 ppb	6.4 %
24Mg (KED)	284.815 ppb	3.6 %
27Al (KED)	436.854 ppb	0.3 %
45Sc (KED)	102.875 %	1.0 %
51V (KED)	0.840 ppb	2.0 %
52Cr (KED)	1.387 ppb	2.6 %
55Mn (KED)	10.487 ppb	1.8 %
56Fe (KED)	436.256 ppb	1.6 %
58Ni (KED)	1.896 ppb	2.1 %
59Co (KED)	0.198 ppb	1.9 %
63Cu (KED)	2.087 ppb	1.6 %
64Zn (KED)	58.728 ppb	1.9 %
69Ga (KED)	1.690 ppb	2.2 %
75As (KED)	0.401 ppb	3.8 %
80Se (KED)	0.015 ppb	1,667.6 %
85Rb (KED)	1.233 ppb	2.6 %
88Sr (KED)	4.012 ppb	1.2 %
89Y (KED)	97.339 %	1.4 %
107Ag (KED)	0.014 ppb	6.0 %
114Cd (KED)	0.026 ppb	6.2 %
115In (KED)	93.063 %	2.2 %
133Cs (KED)	0.084 ppb	3.3 %
138Ba (KED)	5.081 ppb	2.8 %
139La (KED)	0.352 ppb	2.4 %
140Ce (KED)	0.737 ppb	1.7 %
141Pr (KED)	0.086 ppb	0.6 %
142Nd (KED)	0.473 ppb	2.2 %
152Sm (KED)	0.066 ppb	2.6 %
153Eu (KED)	0.012 ppb	10.0 %
158Gd (KED)	0.058 ppb	1.4 %
159Tb (KED)	96.356 %	2.2 %
164Dy (KED)	0.043 ppb	4.4 %
166Er (KED)	0.021 ppb	2.1 %
169Tm (KED)	0.003 ppb	1.7 %
174Yb (KED)	0.019 ppb	5.7 %
175Lu (KED)	-0.017 ppb	22.6 %
205Tl (KED)	0.007 ppb	7.6 %
208Pb (KED)	0.539 ppb	4.3 %
209Bi (KED)	90.677 %	3.1 %
232Th (KED)	0.101 ppb	1.9 %
238U (KED)	0.019 ppb	4.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.018 %	3,133 cps	3.1 %
9Be (KED)	0.012 ppb	3 cps	100.0 %
11B (KED)	-7.274 ppb	268 cps	13.8 %
24Mg (KED)	284.815 ppb	180,199 cps	0.5 %
27Al (KED)	436.854 ppb	65,560 cps	1.2 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.875 %	55,578 cps	1.0 %
51V (KED)	0.840 ppb	8,446 cps	2.5 %
52Cr (KED)	1.387 ppb	21,997 cps	2.3 %
55Mn (KED)	10.487 ppb	78,833 cps	2.0 %
56Fe (KED)	436.256 ppb	6,069,635 cps	2.4 %
58Ni (KED)	1.896 ppb	34,843 cps	2.7 %
59Co (KED)	0.198 ppb	5,927 cps	2.6 %
63Cu (KED)	2.087 ppb	45,608 cps	1.3 %
64Zn (KED)	58.728 ppb	323,515 cps	1.4 %
69Ga (KED)	1.690 ppb	11,634 cps	1.9 %
75As (KED)	0.401 ppb	641 cps	3.7 %
80Se (KED)	0.015 ppb	1,325 cps	7.4 %
85Rb (KED)	1.233 ppb	7,431 cps	1.3 %
88Sr (KED)	4.012 ppb	33,775 cps	1.3 %
89Y (KED)	97.339 %	453,666 cps	1.4 %
107Ag (KED)	0.014 ppb	757 cps	3.8 %
114Cd (KED)	0.026 ppb	522 cps	3.8 %
115In (KED)	93.063 %	772,276 cps	2.2 %
133Cs (KED)	0.084 ppb	2,379 cps	5.5 %
138Ba (KED)	5.081 ppb	208,326 cps	0.6 %
139La (KED)	0.352 ppb	31,593 cps	0.9 %
140Ce (KED)	0.737 ppb	88,566 cps	2.1 %
141Pr (KED)	0.086 ppb	10,427 cps	2.0 %
142Nd (KED)	0.473 ppb	23,081 cps	0.8 %
152Sm (KED)	0.066 ppb	2,810 cps	4.2 %
153Eu (KED)	0.012 ppb	1,073 cps	10.8 %
158Gd (KED)	0.058 ppb	3,402 cps	2.5 %
159Tb (KED)	96.356 %	4,153,166 cps	2.2 %
164Dy (KED)	0.043 ppb	2,737 cps	2.4 %
166Er (KED)	0.021 ppb	1,853 cps	3.5 %
169Tm (KED)	0.003 ppb	776 cps	2.4 %
174Yb (KED)	0.019 ppb	1,677 cps	5.7 %
175Lu (KED)	-0.017 ppb	14,861 cps	4.0 %
205Tl (KED)	0.007 ppb	1,172 cps	7.0 %
208Pb (KED)	0.539 ppb	67,891 cps	2.7 %
209Bi (KED)	90.677 %	3,200,665 cps	3.1 %
232Th (KED)	0.101 ppb	24,467 cps	1.7 %
238U (KED)	0.019 ppb	5,256 cps	1.4 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 13

Analysis name: 305047603860518 jian

Analysis started at: 11/4/2021 3:23:25 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.795 %	3.3 %
9Be (KED)	-0.001 ppb	2,184.6 %
11B (KED)	-7.195 ppb	4.3 %
24Mg (KED)	187.209 ppb	2.1 %
27Al (KED)	295.108 ppb	1.0 %
45Sc (KED)	104.233 %	0.7 %
51V (KED)	0.488 ppb	1.2 %
52Cr (KED)	0.713 ppb	3.3 %
55Mn (KED)	5.906 ppb	1.0 %
56Fe (KED)	249.939 ppb	0.9 %
58Ni (KED)	1.207 ppb	2.8 %
59Co (KED)	0.143 ppb	3.1 %
63Cu (KED)	2.331 ppb	1.4 %
64Zn (KED)	62.817 ppb	1.1 %
69Ga (KED)	1.077 ppb	4.7 %
75As (KED)	0.257 ppb	9.4 %
80Se (KED)	0.200 ppb	72.1 %
85Rb (KED)	1.904 ppb	1.1 %
88Sr (KED)	3.176 ppb	3.8 %
89Y (KED)	99.506 %	2.3 %
107Ag (KED)	0.015 ppb	2.6 %
114Cd (KED)	0.016 ppb	11.0 %
115In (KED)	95.841 %	0.5 %
133Cs (KED)	0.049 ppb	1.4 %
138Ba (KED)	3.320 ppb	2.3 %
139La (KED)	0.224 ppb	1.2 %
140Ce (KED)	0.471 ppb	1.6 %
141Pr (KED)	0.055 ppb	0.3 %
142Nd (KED)	0.300 ppb	1.4 %
152Sm (KED)	0.043 ppb	1.7 %
153Eu (KED)	0.008 ppb	8.0 %
158Gd (KED)	0.038 ppb	2.3 %
159Tb (KED)	98.346 %	1.6 %
164Dy (KED)	0.027 ppb	6.2 %
166Er (KED)	0.013 ppb	4.5 %
169Tm (KED)	0.002 ppb	8.9 %
174Yb (KED)	0.012 ppb	1.6 %
175Lu (KED)	-0.016 ppb	15.2 %
205Tl (KED)	0.006 ppb	2.3 %
208Pb (KED)	0.425 ppb	2.3 %
209Bi (KED)	91.478 %	0.8 %
232Th (KED)	0.068 ppb	2.1 %
238U (KED)	0.013 ppb	5.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.795 %	3,274 cps	3.3 %
9Be (KED)	-0.001 ppb	1 cps	173.2 %
11B (KED)	-7.195 ppb	288 cps	12.7 %
24Mg (KED)	187.209 ppb	123,897 cps	1.7 %
27Al (KED)	295.108 ppb	44,906 cps	0.9 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.233 %	56,311 cps	0.7 %
51V (KED)	0.488 ppb	4,970 cps	0.6 %
52Cr (KED)	0.713 ppb	11,502 cps	2.9 %
55Mn (KED)	5.906 ppb	45,012 cps	1.6 %
56Fe (KED)	249.939 ppb	3,523,942 cps	0.9 %
58Ni (KED)	1.207 ppb	22,593 cps	2.3 %
59Co (KED)	0.143 ppb	4,334 cps	3.4 %
63Cu (KED)	2.331 ppb	52,010 cps	2.1 %
64Zn (KED)	62.817 ppb	353,475 cps	1.4 %
69Ga (KED)	1.077 ppb	7,607 cps	4.1 %
75As (KED)	0.257 ppb	423 cps	7.2 %
80Se (KED)	0.200 ppb	1,441 cps	3.3 %
85Rb (KED)	1.904 ppb	11,684 cps	1.7 %
88Sr (KED)	3.176 ppb	27,342 cps	1.4 %
89Y (KED)	99.506 %	463,767 cps	2.3 %
107Ag (KED)	0.015 ppb	844 cps	2.5 %
114Cd (KED)	0.016 ppb	332 cps	10.5 %
115In (KED)	95.841 %	795,330 cps	0.5 %
133Cs (KED)	0.049 ppb	1,432 cps	1.7 %
138Ba (KED)	3.320 ppb	139,501 cps	3.0 %
139La (KED)	0.224 ppb	20,532 cps	0.6 %
140Ce (KED)	0.471 ppb	57,789 cps	0.1 %
141Pr (KED)	0.055 ppb	6,776 cps	1.3 %
142Nd (KED)	0.300 ppb	14,967 cps	2.4 %
152Sm (KED)	0.043 ppb	1,885 cps	1.9 %
153Eu (KED)	0.008 ppb	742 cps	7.0 %
158Gd (KED)	0.038 ppb	2,264 cps	0.8 %
159Tb (KED)	98.346 %	4,238,951 cps	1.6 %
164Dy (KED)	0.027 ppb	1,773 cps	7.7 %
166Er (KED)	0.013 ppb	1,299 cps	3.1 %
169Tm (KED)	0.002 ppb	452 cps	9.5 %
174Yb (KED)	0.012 ppb	1,103 cps	3.2 %
175Lu (KED)	-0.016 ppb	15,354 cps	0.9 %
205Tl (KED)	0.006 ppb	943 cps	2.5 %
208Pb (KED)	0.425 ppb	54,845 cps	1.8 %
209Bi (KED)	91.478 %	3,228,938 cps	0.8 %
232Th (KED)	0.068 ppb	16,558 cps	2.7 %
238U (KED)	0.013 ppb	3,624 cps	5.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 14

Analysis name: 315047603860510

Analysis started at: 11/4/2021 3:26:36 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	57.274 %	5.6 %
9Be (KED)	0.030 ppb	125.6 %
11B (KED)	-5.581 ppb	19.9 %
24Mg (KED)	301.027 ppb	5.7 %
27Al (KED)	479.455 ppb	1.6 %
45Sc (KED)	52.750 %	0.6 %
51V (KED)	0.929 ppb	0.7 %
52Cr (KED)	2.578 ppb	1.6 %
55Mn (KED)	13.953 ppb	0.8 %
56Fe (KED)	436.074 ppb	0.9 %
58Ni (KED)	1.995 ppb	0.8 %
59Co (KED)	0.271 ppb	2.5 %
63Cu (KED)	3.617 ppb	1.5 %
64Zn (KED)	136.063 ppb	0.2 %
69Ga (KED)	2.208 ppb	1.2 %
75As (KED)	0.616 ppb	9.4 %
80Se (KED)	3.626 ppb	9.1 %
85Rb (KED)	1.303 ppb	2.8 %
88Sr (KED)	5.347 ppb	2.0 %
89Y (KED)	49.414 %	1.0 %
107Ag (KED)	0.021 ppb	6.9 %
114Cd (KED)	0.072 ppb	3.3 %
115In (KED)	48.105 %	1.4 %
133Cs (KED)	0.089 ppb	0.9 %
138Ba (KED)	6.934 ppb	1.7 %
139La (KED)	0.469 ppb	1.6 %
140Ce (KED)	0.971 ppb	0.7 %
141Pr (KED)	0.113 ppb	3.8 %
142Nd (KED)	0.595 ppb	2.2 %
152Sm (KED)	0.081 ppb	9.0 %
153Eu (KED)	0.015 ppb	7.5 %
158Gd (KED)	0.076 ppb	3.0 %
159Tb (KED)	46.812 %	0.4 %
164Dy (KED)	0.049 ppb	4.7 %
166Er (KED)	0.023 ppb	7.8 %
169Tm (KED)	0.003 ppb	9.8 %
174Yb (KED)	0.020 ppb	3.9 %
175Lu (KED)	-0.011 ppb	47.3 %
205Tl (KED)	0.009 ppb	5.8 %
208Pb (KED)	0.913 ppb	1.4 %
209Bi (KED)	46.561 %	0.7 %
232Th (KED)	0.128 ppb	1.2 %
238U (KED)	0.028 ppb	3.2 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	57.274 %	1,692 cps	5.6 %
9Be (KED)	0.030 ppb	3 cps	100.0 %
11B (KED)	-5.581 ppb	222 cps	22.3 %
24Mg (KED)	301.027 ppb	102,743 cps	0.2 %
27Al (KED)	479.455 ppb	36,888 cps	1.6 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	52.750 %	28,498 cps	0.6 %
51V (KED)	0.929 ppb	4,791 cps	0.9 %
52Cr (KED)	2.578 ppb	20,926 cps	1.4 %
55Mn (KED)	13.953 ppb	53,771 cps	1.4 %
56Fe (KED)	436.074 ppb	3,110,840 cps	1.5 %
58Ni (KED)	1.995 ppb	18,785 cps	0.8 %
59Co (KED)	0.271 ppb	4,152 cps	3.0 %
63Cu (KED)	3.617 ppb	39,930 cps	2.1 %
64Zn (KED)	136.063 ppb	378,138 cps	1.0 %
69Ga (KED)	2.208 ppb	7,704 cps	2.2 %
75As (KED)	0.616 ppb	498 cps	10.2 %
80Se (KED)	3.626 ppb	1,515 cps	5.2 %
85Rb (KED)	1.303 ppb	3,985 cps	2.6 %
88Sr (KED)	5.347 ppb	22,834 cps	2.0 %
89Y (KED)	49.414 %	230,305 cps	1.0 %
107Ag (KED)	0.021 ppb	602 cps	7.5 %
114Cd (KED)	0.072 ppb	726 cps	1.9 %
115In (KED)	48.105 %	399,199 cps	1.4 %
133Cs (KED)	0.089 ppb	1,305 cps	1.3 %
138Ba (KED)	6.934 ppb	137,920 cps	2.0 %
139La (KED)	0.469 ppb	20,464 cps	1.9 %
140Ce (KED)	0.971 ppb	56,641 cps	0.9 %
141Pr (KED)	0.113 ppb	6,644 cps	3.4 %
142Nd (KED)	0.595 ppb	14,102 cps	2.2 %
152Sm (KED)	0.081 ppb	1,672 cps	9.4 %
153Eu (KED)	0.015 ppb	641 cps	7.6 %
158Gd (KED)	0.076 ppb	2,137 cps	3.3 %
159Tb (KED)	46.812 %	2,017,716 cps	0.4 %
164Dy (KED)	0.049 ppb	1,529 cps	5.0 %
166Er (KED)	0.023 ppb	976 cps	6.8 %
169Tm (KED)	0.003 ppb	393 cps	9.6 %
174Yb (KED)	0.020 ppb	861 cps	3.6 %
175Lu (KED)	-0.011 ppb	7,708 cps	4.4 %
205Tl (KED)	0.009 ppb	743 cps	5.5 %
208Pb (KED)	0.913 ppb	57,703 cps	1.3 %
209Bi (KED)	46.561 %	1,643,489 cps	0.7 %
232Th (KED)	0.128 ppb	15,857 cps	1.6 %
238U (KED)	0.028 ppb	3,877 cps	3.4 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 15

Analysis name: 315047603860447 jian

Analysis started at: 11/4/2021 3:29:43 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.976 %	2.1 %
9Be (KED)	0.017 ppb	121.4 %
11B (KED)	-8.282 ppb	6.2 %
24Mg (KED)	182.984 ppb	1.3 %
27Al (KED)	222.651 ppb	2.1 %
45Sc (KED)	106.200 %	1.7 %
51V (KED)	0.426 ppb	1.6 %
52Cr (KED)	1.619 ppb	2.1 %
55Mn (KED)	6.537 ppb	0.9 %
56Fe (KED)	228.514 ppb	2.0 %
58Ni (KED)	1.122 ppb	2.1 %
59Co (KED)	0.130 ppb	7.1 %
63Cu (KED)	2.325 ppb	0.9 %
64Zn (KED)	54.753 ppb	1.6 %
69Ga (KED)	1.068 ppb	3.1 %
75As (KED)	0.255 ppb	9.0 %
80Se (KED)	0.059 ppb	317.5 %
85Rb (KED)	0.989 ppb	2.1 %
88Sr (KED)	3.737 ppb	1.0 %
89Y (KED)	100.689 %	0.9 %
107Ag (KED)	0.010 ppb	10.1 %
114Cd (KED)	0.019 ppb	12.8 %
115In (KED)	94.956 %	2.4 %
133Cs (KED)	0.043 ppb	5.9 %
138Ba (KED)	3.131 ppb	1.7 %
139La (KED)	0.190 ppb	2.4 %
140Ce (KED)	0.401 ppb	1.4 %
141Pr (KED)	0.046 ppb	2.6 %
142Nd (KED)	0.252 ppb	3.4 %
152Sm (KED)	0.036 ppb	1.6 %
153Eu (KED)	0.007 ppb	3.8 %
158Gd (KED)	0.032 ppb	5.6 %
159Tb (KED)	98.797 %	0.5 %
164Dy (KED)	0.023 ppb	3.2 %
166Er (KED)	0.011 ppb	5.7 %
169Tm (KED)	0.002 ppb	10.1 %
174Yb (KED)	0.010 ppb	3.0 %
175Lu (KED)	-0.021 ppb	14.6 %
205Tl (KED)	0.004 ppb	2.2 %
208Pb (KED)	0.380 ppb	1.9 %
209Bi (KED)	92.280 %	1.9 %
232Th (KED)	0.053 ppb	3.4 %
238U (KED)	0.014 ppb	4.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.976 %	3,338 cps	2.1 %
9Be (KED)	0.017 ppb	4 cps	86.6 %
11B (KED)	-8.282 ppb	194 cps	24.9 %
24Mg (KED)	182.984 ppb	123,520 cps	1.0 %
27Al (KED)	222.651 ppb	34,541 cps	0.4 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.200 %	57,374 cps	1.7 %
51V (KED)	0.426 ppb	4,427 cps	1.6 %
52Cr (KED)	1.619 ppb	26,498 cps	0.9 %
55Mn (KED)	6.537 ppb	50,760 cps	2.4 %
56Fe (KED)	228.514 ppb	3,282,231 cps	0.6 %
58Ni (KED)	1.122 ppb	21,431 cps	0.4 %
59Co (KED)	0.130 ppb	4,026 cps	8.3 %
63Cu (KED)	2.325 ppb	52,504 cps	1.8 %
64Zn (KED)	54.753 ppb	312,289 cps	1.9 %
69Ga (KED)	1.068 ppb	7,637 cps	4.0 %
75As (KED)	0.255 ppb	426 cps	7.8 %
80Se (KED)	0.059 ppb	1,392 cps	6.7 %
85Rb (KED)	0.989 ppb	6,184 cps	2.8 %
88Sr (KED)	3.737 ppb	32,557 cps	0.2 %
89Y (KED)	100.689 %	469,279 cps	0.9 %
107Ag (KED)	0.010 ppb	552 cps	8.2 %
114Cd (KED)	0.019 ppb	392 cps	14.5 %
115In (KED)	94.956 %	787,987 cps	2.4 %
133Cs (KED)	0.043 ppb	1,239 cps	4.8 %
138Ba (KED)	3.131 ppb	132,229 cps	1.4 %
139La (KED)	0.190 ppb	17,516 cps	2.1 %
140Ce (KED)	0.401 ppb	49,592 cps	1.2 %
141Pr (KED)	0.046 ppb	5,680 cps	2.8 %
142Nd (KED)	0.252 ppb	12,618 cps	3.0 %
152Sm (KED)	0.036 ppb	1,581 cps	1.6 %
153Eu (KED)	0.007 ppb	616 cps	3.8 %
158Gd (KED)	0.032 ppb	1,899 cps	6.0 %
159Tb (KED)	98.797 %	4,258,379 cps	0.5 %
164Dy (KED)	0.023 ppb	1,551 cps	2.8 %
166Er (KED)	0.011 ppb	1,185 cps	4.2 %
169Tm (KED)	0.002 ppb	432 cps	9.5 %
174Yb (KED)	0.010 ppb	957 cps	2.5 %
175Lu (KED)	-0.021 ppb	14,771 cps	3.2 %
205Tl (KED)	0.004 ppb	759 cps	4.0 %
208Pb (KED)	0.380 ppb	49,883 cps	0.3 %
209Bi (KED)	92.280 %	3,257,262 cps	1.9 %
232Th (KED)	0.053 ppb	13,135 cps	1.6 %
238U (KED)	0.014 ppb	3,804 cps	2.8 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 16

Analysis name: 315047603860470jian

Analysis started at: 11/4/2021 3:32:46 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	104.100 %	1.9 %
9Be (KED)	0.000 ppb	5,097.4 %
11B (KED)	-8.119 ppb	3.9 %
24Mg (KED)	194.749 ppb	1.9 %
27Al (KED)	226.317 ppb	2.0 %
45Sc (KED)	103.045 %	0.9 %
51V (KED)	0.440 ppb	3.6 %
52Cr (KED)	1.626 ppb	0.3 %
55Mn (KED)	6.585 ppb	1.1 %
56Fe (KED)	230.593 ppb	0.3 %
58Ni (KED)	1.157 ppb	1.1 %
59Co (KED)	0.130 ppb	2.9 %
63Cu (KED)	2.299 ppb	2.4 %
64Zn (KED)	54.906 ppb	1.6 %
69Ga (KED)	1.097 ppb	2.2 %
75As (KED)	0.252 ppb	6.2 %
80Se (KED)	0.220 ppb	94.5 %
85Rb (KED)	0.975 ppb	2.9 %
88Sr (KED)	3.701 ppb	1.8 %
89Y (KED)	98.277 %	0.9 %
107Ag (KED)	0.008 ppb	5.9 %
114Cd (KED)	0.022 ppb	7.7 %
115In (KED)	93.759 %	2.5 %
133Cs (KED)	0.041 ppb	4.6 %
138Ba (KED)	3.246 ppb	1.7 %
139La (KED)	0.194 ppb	1.1 %
140Ce (KED)	0.394 ppb	1.2 %
141Pr (KED)	0.046 ppb	2.3 %
142Nd (KED)	0.247 ppb	3.5 %
152Sm (KED)	0.035 ppb	5.2 %
153Eu (KED)	0.007 ppb	9.1 %
158Gd (KED)	0.034 ppb	1.6 %
159Tb (KED)	96.117 %	0.4 %
164Dy (KED)	0.025 ppb	0.9 %
166Er (KED)	0.011 ppb	9.7 %
169Tm (KED)	0.002 ppb	9.7 %
174Yb (KED)	0.010 ppb	9.7 %
175Lu (KED)	-0.024 ppb	17.7 %
205Tl (KED)	0.005 ppb	11.5 %
208Pb (KED)	0.379 ppb	1.1 %
209Bi (KED)	90.345 %	1.2 %
232Th (KED)	0.054 ppb	1.5 %
238U (KED)	0.014 ppb	4.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	104.100 %	3,076 cps	1.9 %
9Be (KED)	0.000 ppb	1 cps	173.2 %
11B (KED)	-8.119 ppb	192 cps	12.2 %
24Mg (KED)	194.749 ppb	121,112 cps	0.7 %
27Al (KED)	226.317 ppb	34,071 cps	1.8 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.045 %	55,670 cps	0.9 %
51V (KED)	0.440 ppb	4,439 cps	2.8 %
52Cr (KED)	1.626 ppb	25,824 cps	0.9 %
55Mn (KED)	6.585 ppb	49,611 cps	1.7 %
56Fe (KED)	230.593 ppb	3,214,333 cps	0.7 %
58Ni (KED)	1.157 ppb	21,433 cps	1.2 %
59Co (KED)	0.130 ppb	3,894 cps	3.8 %
63Cu (KED)	2.299 ppb	50,679 cps	1.9 %
64Zn (KED)	54.906 ppb	305,658 cps	2.1 %
69Ga (KED)	1.097 ppb	7,658 cps	2.5 %
75As (KED)	0.252 ppb	410 cps	5.1 %
80Se (KED)	0.220 ppb	1,433 cps	7.2 %
85Rb (KED)	0.975 ppb	5,951 cps	2.4 %
88Sr (KED)	3.701 ppb	31,473 cps	2.2 %
89Y (KED)	98.277 %	458,039 cps	0.9 %
107Ag (KED)	0.008 ppb	477 cps	6.7 %
114Cd (KED)	0.022 ppb	448 cps	6.0 %
115In (KED)	93.759 %	778,054 cps	2.5 %
133Cs (KED)	0.041 ppb	1,166 cps	2.9 %
138Ba (KED)	3.246 ppb	133,332 cps	1.4 %
139La (KED)	0.194 ppb	17,389 cps	1.2 %
140Ce (KED)	0.394 ppb	47,374 cps	1.2 %
141Pr (KED)	0.046 ppb	5,590 cps	1.9 %
142Nd (KED)	0.247 ppb	12,028 cps	3.8 %
152Sm (KED)	0.035 ppb	1,500 cps	4.8 %
153Eu (KED)	0.007 ppb	646 cps	9.1 %
158Gd (KED)	0.034 ppb	1,975 cps	1.5 %
159Tb (KED)	96.117 %	4,142,879 cps	0.4 %
164Dy (KED)	0.025 ppb	1,609 cps	1.1 %
166Er (KED)	0.011 ppb	1,142 cps	7.1 %
169Tm (KED)	0.002 ppb	423 cps	9.8 %
174Yb (KED)	0.010 ppb	886 cps	9.2 %
175Lu (KED)	-0.024 ppb	13,925 cps	4.0 %
205Tl (KED)	0.005 ppb	783 cps	10.2 %
208Pb (KED)	0.379 ppb	48,726 cps	1.3 %
209Bi (KED)	90.345 %	3,188,946 cps	1.2 %
232Th (KED)	0.054 ppb	13,032 cps	2.4 %
238U (KED)	0.014 ppb	3,733 cps	3.2 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 17

Analysis name: 315047603860444 jian

Analysis started at: 11/4/2021 3:35:56 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.604 %	3.1 %
9Be (KED)	0.006 ppb	383.3 %
11B (KED)	-6.949 ppb	4.7 %
24Mg (KED)	172.402 ppb	3.3 %
27Al (KED)	317.543 ppb	2.1 %
45Sc (KED)	100.535 %	2.0 %
51V (KED)	0.590 ppb	3.3 %
52Cr (KED)	3.030 ppb	1.0 %
55Mn (KED)	8.724 ppb	1.5 %
56Fe (KED)	324.900 ppb	1.3 %
58Ni (KED)	1.822 ppb	2.4 %
59Co (KED)	0.171 ppb	5.9 %
63Cu (KED)	2.735 ppb	1.4 %
64Zn (KED)	66.741 ppb	0.5 %
69Ga (KED)	1.214 ppb	2.1 %
75As (KED)	0.274 ppb	6.3 %
80Se (KED)	0.293 ppb	54.1 %
85Rb (KED)	1.007 ppb	3.2 %
88Sr (KED)	2.836 ppb	1.1 %
89Y (KED)	93.454 %	1.1 %
107Ag (KED)	0.008 ppb	12.5 %
114Cd (KED)	0.018 ppb	8.9 %
115In (KED)	90.514 %	0.6 %
133Cs (KED)	0.060 ppb	2.7 %
138Ba (KED)	3.653 ppb	3.0 %
139La (KED)	0.264 ppb	1.6 %
140Ce (KED)	0.543 ppb	0.9 %
141Pr (KED)	0.063 ppb	0.8 %
142Nd (KED)	0.350 ppb	1.1 %
152Sm (KED)	0.047 ppb	8.1 %
153Eu (KED)	0.009 ppb	2.1 %
158Gd (KED)	0.043 ppb	3.1 %
159Tb (KED)	88.465 %	0.6 %
164Dy (KED)	0.032 ppb	5.0 %
166Er (KED)	0.015 ppb	6.2 %
169Tm (KED)	0.002 ppb	8.1 %
174Yb (KED)	0.013 ppb	3.3 %
175Lu (KED)	-0.021 ppb	8.5 %
205Tl (KED)	0.005 ppb	1.2 %
208Pb (KED)	0.456 ppb	0.9 %
209Bi (KED)	86.494 %	1.8 %
232Th (KED)	0.077 ppb	1.2 %
238U (KED)	0.014 ppb	2.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.604 %	3,120 cps	3.1 %
9Be (KED)	0.006 ppb	2 cps	173.2 %
11B (KED)	-6.949 ppb	294 cps	8.6 %
24Mg (KED)	172.402 ppb	108,746 cps	1.3 %
27Al (KED)	317.543 ppb	46,594 cps	2.2 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.535 %	54,314 cps	2.0 %
51V (KED)	0.590 ppb	5,796 cps	2.2 %
52Cr (KED)	3.030 ppb	46,863 cps	1.9 %
55Mn (KED)	8.724 ppb	64,090 cps	1.6 %
56Fe (KED)	324.900 ppb	4,417,150 cps	1.2 %
58Ni (KED)	1.822 ppb	32,723 cps	0.5 %
59Co (KED)	0.171 ppb	5,008 cps	3.8 %
63Cu (KED)	2.735 ppb	57,226 cps	0.3 %
64Zn (KED)	66.741 ppb	352,557 cps	1.4 %
69Ga (KED)	1.214 ppb	8,044 cps	1.3 %
75As (KED)	0.274 ppb	424 cps	5.6 %
80Se (KED)	0.293 ppb	1,395 cps	4.0 %
85Rb (KED)	1.007 ppb	5,839 cps	2.2 %
88Sr (KED)	2.836 ppb	22,960 cps	2.1 %
89Y (KED)	93.454 %	435,562 cps	1.1 %
107Ag (KED)	0.008 ppb	434 cps	12.4 %
114Cd (KED)	0.018 ppb	361 cps	8.9 %
115In (KED)	90.514 %	751,125 cps	0.6 %
133Cs (KED)	0.060 ppb	1,656 cps	3.2 %
138Ba (KED)	3.653 ppb	137,942 cps	3.0 %
139La (KED)	0.264 ppb	21,770 cps	1.5 %
140Ce (KED)	0.543 ppb	59,910 cps	1.3 %
141Pr (KED)	0.063 ppb	7,030 cps	1.1 %
142Nd (KED)	0.350 ppb	15,700 cps	1.1 %
152Sm (KED)	0.047 ppb	1,852 cps	8.4 %
153Eu (KED)	0.009 ppb	710 cps	2.6 %
158Gd (KED)	0.043 ppb	2,292 cps	2.8 %
159Tb (KED)	88.465 %	3,813,048 cps	0.6 %
164Dy (KED)	0.032 ppb	1,870 cps	5.0 %
166Er (KED)	0.015 ppb	1,286 cps	5.2 %
169Tm (KED)	0.002 ppb	481 cps	8.4 %
174Yb (KED)	0.013 ppb	1,100 cps	3.8 %
175Lu (KED)	-0.021 ppb	13,145 cps	1.5 %
205Tl (KED)	0.005 ppb	860 cps	2.1 %
208Pb (KED)	0.456 ppb	55,424 cps	2.3 %
209Bi (KED)	86.494 %	3,053,015 cps	1.8 %
232Th (KED)	0.077 ppb	17,833 cps	2.1 %
238U (KED)	0.014 ppb	3,699 cps	3.5 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 18

Analysis name: 315047603860458

Analysis started at: 11/4/2021 3:39:15 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.507 %	6.7 %
9Be (KED)	-0.001 ppb	1,887.9 %
11B (KED)	-5.885 ppb	13.1 %
24Mg (KED)	205.958 ppb	7.0 %
27Al (KED)	356.243 ppb	2.4 %
45Sc (KED)	103.913 %	1.7 %
51V (KED)	0.699 ppb	4.1 %
52Cr (KED)	0.925 ppb	1.0 %
55Mn (KED)	7.942 ppb	2.4 %
56Fe (KED)	374.734 ppb	0.6 %
58Ni (KED)	1.558 ppb	0.6 %
59Co (KED)	0.166 ppb	0.8 %
63Cu (KED)	3.218 ppb	1.8 %
64Zn (KED)	62.310 ppb	1.5 %
69Ga (KED)	1.235 ppb	1.0 %
75As (KED)	0.294 ppb	5.9 %
80Se (KED)	0.266 ppb	55.9 %
85Rb (KED)	1.002 ppb	2.4 %
88Sr (KED)	2.895 ppb	1.6 %
89Y (KED)	97.030 %	1.6 %
107Ag (KED)	0.016 ppb	3.2 %
114Cd (KED)	0.021 ppb	8.7 %
115In (KED)	94.580 %	2.0 %
133Cs (KED)	0.074 ppb	1.0 %
138Ba (KED)	3.611 ppb	2.3 %
139La (KED)	0.337 ppb	0.5 %
140Ce (KED)	0.692 ppb	2.9 %
141Pr (KED)	0.080 ppb	3.7 %
142Nd (KED)	0.427 ppb	3.6 %
152Sm (KED)	0.060 ppb	5.0 %
153Eu (KED)	0.011 ppb	11.7 %
158Gd (KED)	0.051 ppb	2.5 %
159Tb (KED)	94.967 %	3.0 %
164Dy (KED)	0.035 ppb	2.8 %
166Er (KED)	0.017 ppb	11.1 %
169Tm (KED)	0.003 ppb	3.1 %
174Yb (KED)	0.016 ppb	6.0 %
175Lu (KED)	-0.021 ppb	13.8 %
205Tl (KED)	0.006 ppb	4.4 %
208Pb (KED)	0.430 ppb	2.4 %
209Bi (KED)	89.486 %	4.2 %
232Th (KED)	0.094 ppb	5.9 %
238U (KED)	0.014 ppb	8.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.507 %	3,147 cps	6.7 %
9Be (KED)	-0.001 ppb	1 cps	173.2 %
11B (KED)	-5.885 ppb	386 cps	10.4 %
24Mg (KED)	205.958 ppb	130,655 cps	0.4 %
27Al (KED)	356.243 ppb	54,009 cps	1.5 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.913 %	56,138 cps	1.7 %
51V (KED)	0.699 ppb	7,103 cps	2.8 %
52Cr (KED)	0.925 ppb	14,856 cps	0.7 %
55Mn (KED)	7.942 ppb	60,303 cps	0.9 %
56Fe (KED)	374.734 ppb	5,265,902 cps	1.3 %
58Ni (KED)	1.558 ppb	28,979 cps	1.2 %
59Co (KED)	0.166 ppb	5,018 cps	2.0 %
63Cu (KED)	3.218 ppb	69,809 cps	0.2 %
64Zn (KED)	62.310 ppb	341,925 cps	0.4 %
69Ga (KED)	1.235 ppb	8,500 cps	2.4 %
75As (KED)	0.294 ppb	471 cps	6.4 %
80Se (KED)	0.266 ppb	1,436 cps	4.2 %
85Rb (KED)	1.002 ppb	6,035 cps	1.2 %
88Sr (KED)	2.895 ppb	24,327 cps	0.4 %
89Y (KED)	97.030 %	452,229 cps	1.6 %
107Ag (KED)	0.016 ppb	907 cps	2.6 %
114Cd (KED)	0.021 ppb	430 cps	8.1 %
115In (KED)	94.580 %	784,868 cps	2.0 %
133Cs (KED)	0.074 ppb	2,130 cps	2.9 %
138Ba (KED)	3.611 ppb	146,326 cps	1.1 %
139La (KED)	0.337 ppb	29,887 cps	2.7 %
140Ce (KED)	0.692 ppb	81,862 cps	0.2 %
141Pr (KED)	0.080 ppb	9,501 cps	2.1 %
142Nd (KED)	0.427 ppb	20,547 cps	0.8 %
152Sm (KED)	0.060 ppb	2,505 cps	3.4 %
153Eu (KED)	0.011 ppb	951 cps	10.1 %
158Gd (KED)	0.051 ppb	2,913 cps	2.4 %
159Tb (KED)	94.967 %	4,093,311 cps	3.0 %
164Dy (KED)	0.035 ppb	2,235 cps	0.3 %
166Er (KED)	0.017 ppb	1,546 cps	6.0 %
169Tm (KED)	0.003 ppb	621 cps	2.8 %
174Yb (KED)	0.016 ppb	1,407 cps	3.4 %
175Lu (KED)	-0.021 ppb	14,184 cps	0.6 %
205Tl (KED)	0.006 ppb	959 cps	1.0 %
208Pb (KED)	0.430 ppb	54,241 cps	2.3 %
209Bi (KED)	89.486 %	3,158,640 cps	4.2 %
232Th (KED)	0.094 ppb	22,494 cps	3.1 %
238U (KED)	0.014 ppb	3,778 cps	3.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 19

Analysis name: 315047603860441

Analysis started at: 11/4/2021 3:42:29 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	113.465 %	3.4 %
9Be (KED)	-0.007 ppb	0.0 %
11B (KED)	-8.532 ppb	1.3 %
24Mg (KED)	246.342 ppb	2.8 %
27Al (KED)	378.513 ppb	2.6 %
45Sc (KED)	105.888 %	0.6 %
51V (KED)	0.752 ppb	3.5 %
52Cr (KED)	1.210 ppb	3.7 %
55Mn (KED)	8.334 ppb	1.7 %
56Fe (KED)	362.519 ppb	0.9 %
58Ni (KED)	1.860 ppb	2.7 %
59Co (KED)	0.190 ppb	1.5 %
63Cu (KED)	2.724 ppb	2.5 %
64Zn (KED)	72.311 ppb	2.3 %
69Ga (KED)	1.371 ppb	3.7 %
75As (KED)	0.383 ppb	5.2 %
80Se (KED)	0.152 ppb	69.2 %
85Rb (KED)	0.902 ppb	1.7 %
88Sr (KED)	3.596 ppb	1.5 %
89Y (KED)	99.121 %	1.7 %
107Ag (KED)	0.019 ppb	4.6 %
114Cd (KED)	0.031 ppb	12.7 %
115In (KED)	96.201 %	0.7 %
133Cs (KED)	0.072 ppb	6.4 %
138Ba (KED)	3.992 ppb	1.0 %
139La (KED)	0.284 ppb	0.7 %
140Ce (KED)	0.577 ppb	1.9 %
141Pr (KED)	0.069 ppb	1.5 %
142Nd (KED)	0.371 ppb	4.5 %
152Sm (KED)	0.053 ppb	1.0 %
153Eu (KED)	0.010 ppb	2.5 %
158Gd (KED)	0.046 ppb	3.2 %
159Tb (KED)	99.750 %	0.6 %
164Dy (KED)	0.034 ppb	2.2 %
166Er (KED)	0.017 ppb	2.9 %
169Tm (KED)	0.002 ppb	6.8 %
174Yb (KED)	0.016 ppb	4.2 %
175Lu (KED)	-0.022 ppb	27.7 %
205Tl (KED)	0.006 ppb	6.0 %
208Pb (KED)	0.965 ppb	1.7 %
209Bi (KED)	92.182 %	1.8 %
232Th (KED)	0.087 ppb	2.4 %
238U (KED)	0.018 ppb	4.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	113.465 %	3,353 cps	3.4 %
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	-8.532 ppb	172 cps	7.8 %
24Mg (KED)	246.342 ppb	166,857 cps	1.1 %
27Al (KED)	378.513 ppb	58,476 cps	1.9 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.888 %	57,205 cps	0.6 %
51V (KED)	0.752 ppb	7,781 cps	2.9 %
52Cr (KED)	1.210 ppb	19,763 cps	3.0 %
55Mn (KED)	8.334 ppb	64,489 cps	1.1 %
56Fe (KED)	362.519 ppb	5,191,254 cps	0.5 %
58Ni (KED)	1.860 ppb	35,175 cps	2.2 %
59Co (KED)	0.190 ppb	5,857 cps	1.8 %
63Cu (KED)	2.724 ppb	60,453 cps	2.6 %
64Zn (KED)	72.311 ppb	404,728 cps	0.6 %
69Ga (KED)	1.371 ppb	9,623 cps	2.0 %
75As (KED)	0.383 ppb	624 cps	6.7 %
80Se (KED)	0.152 ppb	1,413 cps	1.9 %
85Rb (KED)	0.902 ppb	5,560 cps	3.3 %
88Sr (KED)	3.596 ppb	30,843 cps	1.3 %
89Y (KED)	99.121 %	461,975 cps	1.7 %
107Ag (KED)	0.019 ppb	1,063 cps	4.4 %
114Cd (KED)	0.031 ppb	640 cps	12.8 %
115In (KED)	96.201 %	798,318 cps	0.7 %
133Cs (KED)	0.072 ppb	2,110 cps	6.3 %
138Ba (KED)	3.992 ppb	169,815 cps	0.8 %
139La (KED)	0.284 ppb	26,434 cps	0.5 %
140Ce (KED)	0.577 ppb	71,872 cps	2.4 %
141Pr (KED)	0.069 ppb	8,617 cps	1.0 %
142Nd (KED)	0.371 ppb	18,731 cps	3.9 %
152Sm (KED)	0.053 ppb	2,346 cps	1.1 %
153Eu (KED)	0.010 ppb	881 cps	2.5 %
158Gd (KED)	0.046 ppb	2,771 cps	2.7 %
159Tb (KED)	99.750 %	4,299,461 cps	0.6 %
164Dy (KED)	0.034 ppb	2,269 cps	2.6 %
166Er (KED)	0.017 ppb	1,610 cps	2.6 %
169Tm (KED)	0.002 ppb	611 cps	6.3 %
174Yb (KED)	0.016 ppb	1,478 cps	4.0 %
175Lu (KED)	-0.022 ppb	14,689 cps	6.9 %
205Tl (KED)	0.006 ppb	978 cps	7.7 %
208Pb (KED)	0.965 ppb	120,481 cps	0.1 %
209Bi (KED)	92.182 %	3,253,787 cps	1.8 %
232Th (KED)	0.087 ppb	21,349 cps	0.9 %
238U (KED)	0.018 ppb	4,939 cps	3.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 20

Analysis name: 315047603860496 jian

Analysis started at: 11/4/2021 3:45:41 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.168 %	4.2 %
9Be (KED)	0.006 ppb	180.8 %
11B (KED)	-6.102 ppb	14.5 %
24Mg (KED)	220.829 ppb	3.3 %
27Al (KED)	338.630 ppb	1.5 %
45Sc (KED)	104.181 %	0.8 %
51V (KED)	0.634 ppb	2.5 %
52Cr (KED)	0.843 ppb	2.5 %
55Mn (KED)	8.537 ppb	2.0 %
56Fe (KED)	330.020 ppb	0.4 %
58Ni (KED)	1.404 ppb	0.5 %
59Co (KED)	0.153 ppb	2.0 %
63Cu (KED)	2.230 ppb	1.0 %
64Zn (KED)	60.597 ppb	1.1 %
69Ga (KED)	1.317 ppb	3.7 %
75As (KED)	0.361 ppb	1.9 %
80Se (KED)	0.142 ppb	180.4 %
85Rb (KED)	0.915 ppb	5.0 %
88Sr (KED)	3.701 ppb	4.3 %
89Y (KED)	97.073 %	1.2 %
107Ag (KED)	0.010 ppb	10.3 %
114Cd (KED)	0.026 ppb	4.2 %
115In (KED)	93.567 %	1.2 %
133Cs (KED)	0.068 ppb	2.8 %
138Ba (KED)	4.005 ppb	1.9 %
139La (KED)	0.251 ppb	2.9 %
140Ce (KED)	0.524 ppb	1.0 %
141Pr (KED)	0.059 ppb	1.6 %
142Nd (KED)	0.332 ppb	1.8 %
152Sm (KED)	0.047 ppb	8.1 %
153Eu (KED)	0.010 ppb	3.9 %
158Gd (KED)	0.041 ppb	3.8 %
159Tb (KED)	95.636 %	2.1 %
164Dy (KED)	0.031 ppb	0.8 %
166Er (KED)	0.015 ppb	8.2 %
169Tm (KED)	0.002 ppb	6.0 %
174Yb (KED)	0.014 ppb	1.4 %
175Lu (KED)	-0.021 ppb	10.3 %
205Tl (KED)	0.005 ppb	7.3 %
208Pb (KED)	0.414 ppb	3.3 %
209Bi (KED)	91.082 %	1.4 %
232Th (KED)	0.076 ppb	2.7 %
238U (KED)	0.015 ppb	7.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.168 %	3,137 cps	4.2 %
9Be (KED)	0.006 ppb	2 cps	86.6 %
11B (KED)	-6.102 ppb	369 cps	21.4 %
24Mg (KED)	220.829 ppb	139,934 cps	0.9 %
27Al (KED)	338.630 ppb	51,493 cps	2.4 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.181 %	56,283 cps	0.8 %
51V (KED)	0.634 ppb	6,462 cps	1.8 %
52Cr (KED)	0.843 ppb	13,573 cps	1.7 %
55Mn (KED)	8.537 ppb	64,992 cps	1.7 %
56Fe (KED)	330.020 ppb	4,650,143 cps	1.1 %
58Ni (KED)	1.404 ppb	26,223 cps	0.6 %
59Co (KED)	0.153 ppb	4,645 cps	2.8 %
63Cu (KED)	2.230 ppb	48,560 cps	1.7 %
64Zn (KED)	60.597 ppb	332,797 cps	0.2 %
69Ga (KED)	1.317 ppb	9,056 cps	2.6 %
75As (KED)	0.361 ppb	577 cps	1.2 %
80Se (KED)	0.142 ppb	1,380 cps	8.6 %
85Rb (KED)	0.915 ppb	5,519 cps	3.9 %
88Sr (KED)	3.701 ppb	31,075 cps	3.2 %
89Y (KED)	97.073 %	452,428 cps	1.2 %
107Ag (KED)	0.010 ppb	566 cps	8.7 %
114Cd (KED)	0.026 ppb	521 cps	4.5 %
115In (KED)	93.567 %	776,459 cps	1.2 %
133Cs (KED)	0.068 ppb	1,929 cps	1.7 %
138Ba (KED)	4.005 ppb	163,313 cps	1.7 %
139La (KED)	0.251 ppb	22,387 cps	2.7 %
140Ce (KED)	0.524 ppb	62,604 cps	1.8 %
141Pr (KED)	0.059 ppb	7,162 cps	1.5 %
142Nd (KED)	0.332 ppb	16,085 cps	0.8 %
152Sm (KED)	0.047 ppb	1,978 cps	6.1 %
153Eu (KED)	0.010 ppb	831 cps	4.9 %
158Gd (KED)	0.041 ppb	2,367 cps	2.3 %
159Tb (KED)	95.636 %	4,122,140 cps	2.1 %
164Dy (KED)	0.031 ppb	1,989 cps	2.6 %
166Er (KED)	0.015 ppb	1,427 cps	5.1 %
169Tm (KED)	0.002 ppb	569 cps	7.4 %
174Yb (KED)	0.014 ppb	1,228 cps	3.1 %
175Lu (KED)	-0.021 ppb	14,222 cps	3.7 %
205Tl (KED)	0.005 ppb	930 cps	6.0 %
208Pb (KED)	0.414 ppb	53,237 cps	2.1 %
209Bi (KED)	91.082 %	3,214,965 cps	1.4 %
232Th (KED)	0.076 ppb	18,504 cps	2.2 %
238U (KED)	0.015 ppb	4,194 cps	6.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 21

Analysis name: 315047603860524

Analysis started at: 11/4/2021 3:48:58 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.337 %	0.3 %
9Be (KED)	-0.001 ppb	1,390.2 %
11B (KED)	-7.689 ppb	3.2 %
24Mg (KED)	123.920 ppb	0.7 %
27Al (KED)	185.001 ppb	1.5 %
45Sc (KED)	102.927 %	1.2 %
51V (KED)	0.355 ppb	1.7 %
52Cr (KED)	0.451 ppb	4.4 %
55Mn (KED)	4.844 ppb	1.8 %
56Fe (KED)	176.473 ppb	0.3 %
58Ni (KED)	0.890 ppb	0.6 %
59Co (KED)	0.104 ppb	1.7 %
63Cu (KED)	1.672 ppb	2.3 %
64Zn (KED)	63.955 ppb	0.7 %
69Ga (KED)	0.782 ppb	1.8 %
75As (KED)	0.223 ppb	8.4 %
80Se (KED)	0.248 ppb	140.7 %
85Rb (KED)	0.577 ppb	1.0 %
88Sr (KED)	1.905 ppb	1.0 %
89Y (KED)	97.973 %	0.6 %
107Ag (KED)	0.008 ppb	13.5 %
114Cd (KED)	0.011 ppb	6.9 %
115In (KED)	92.947 %	2.1 %
133Cs (KED)	0.038 ppb	9.4 %
138Ba (KED)	2.410 ppb	0.9 %
139La (KED)	0.164 ppb	1.5 %
140Ce (KED)	0.355 ppb	1.4 %
141Pr (KED)	0.040 ppb	2.9 %
142Nd (KED)	0.221 ppb	0.5 %
152Sm (KED)	0.030 ppb	2.7 %
153Eu (KED)	0.006 ppb	10.0 %
158Gd (KED)	0.028 ppb	3.5 %
159Tb (KED)	97.037 %	0.9 %
164Dy (KED)	0.018 ppb	2.9 %
166Er (KED)	0.008 ppb	3.7 %
169Tm (KED)	0.001 ppb	1.6 %
174Yb (KED)	0.008 ppb	15.6 %
175Lu (KED)	-0.025 ppb	21.7 %
205Tl (KED)	0.004 ppb	2.1 %
208Pb (KED)	0.276 ppb	2.3 %
209Bi (KED)	91.370 %	1.4 %
232Th (KED)	0.049 ppb	0.9 %
238U (KED)	0.009 ppb	5.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.337 %	3,319 cps	0.3 %
9Be (KED)	-0.001 ppb	1 cps	173.2 %
11B (KED)	-7.689 ppb	247 cps	9.5 %
24Mg (KED)	123.920 ppb	83,260 cps	0.4 %
27Al (KED)	185.001 ppb	27,838 cps	0.3 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.927 %	55,606 cps	1.2 %
51V (KED)	0.355 ppb	3,571 cps	1.5 %
52Cr (KED)	0.451 ppb	7,215 cps	3.4 %
55Mn (KED)	4.844 ppb	36,471 cps	2.8 %
56Fe (KED)	176.473 ppb	2,457,709 cps	1.4 %
58Ni (KED)	0.890 ppb	16,548 cps	1.5 %
59Co (KED)	0.104 ppb	3,136 cps	1.5 %
63Cu (KED)	1.672 ppb	36,883 cps	2.6 %
64Zn (KED)	63.955 ppb	354,326 cps	1.3 %
69Ga (KED)	0.782 ppb	5,462 cps	1.8 %
75As (KED)	0.223 ppb	364 cps	7.8 %
80Se (KED)	0.248 ppb	1,441 cps	10.6 %
85Rb (KED)	0.577 ppb	3,546 cps	1.6 %
88Sr (KED)	1.905 ppb	16,208 cps	1.1 %
89Y (KED)	97.973 %	456,622 cps	0.6 %
107Ag (KED)	0.008 ppb	447 cps	11.0 %
114Cd (KED)	0.011 ppb	241 cps	8.1 %
115In (KED)	92.947 %	771,313 cps	2.1 %
133Cs (KED)	0.038 ppb	1,084 cps	10.0 %
138Ba (KED)	2.410 ppb	100,304 cps	1.6 %
139La (KED)	0.164 ppb	14,844 cps	2.0 %
140Ce (KED)	0.355 ppb	43,064 cps	1.7 %
141Pr (KED)	0.040 ppb	4,854 cps	3.6 %
142Nd (KED)	0.221 ppb	10,896 cps	1.3 %
152Sm (KED)	0.030 ppb	1,301 cps	2.3 %
153Eu (KED)	0.006 ppb	524 cps	10.7 %
158Gd (KED)	0.028 ppb	1,636 cps	3.2 %
159Tb (KED)	97.037 %	4,182,506 cps	0.9 %
164Dy (KED)	0.018 ppb	1,196 cps	3.6 %
166Er (KED)	0.008 ppb	917 cps	3.2 %
169Tm (KED)	0.001 ppb	317 cps	2.1 %
174Yb (KED)	0.008 ppb	743 cps	16.0 %
175Lu (KED)	-0.025 ppb	13,889 cps	5.1 %
205Tl (KED)	0.004 ppb	638 cps	2.1 %
208Pb (KED)	0.276 ppb	36,921 cps	0.7 %
209Bi (KED)	91.370 %	3,225,134 cps	1.4 %
232Th (KED)	0.049 ppb	11,903 cps	0.9 %
238U (KED)	0.009 ppb	2,360 cps	5.2 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 22

Analysis name: 315047603860497 jian

Analysis started at: 11/4/2021 3:52:11 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.958 %	2.1 %
9Be (KED)	-0.007 ppb	0.0 %
11B (KED)	-7.285 ppb	8.7 %
24Mg (KED)	261.957 ppb	2.3 %
27Al (KED)	410.924 ppb	1.9 %
45Sc (KED)	104.233 %	2.0 %
51V (KED)	0.769 ppb	2.0 %
52Cr (KED)	1.158 ppb	1.3 %
55Mn (KED)	10.483 ppb	0.7 %
56Fe (KED)	381.047 ppb	1.9 %
58Ni (KED)	1.657 ppb	0.8 %
59Co (KED)	0.183 ppb	1.6 %
63Cu (KED)	2.605 ppb	0.6 %
64Zn (KED)	68.652 ppb	13.8 %
69Ga (KED)	1.640 ppb	2.7 %
75As (KED)	0.494 ppb	1.3 %
80Se (KED)	0.221 ppb	26.8 %
85Rb (KED)	1.061 ppb	2.4 %
88Sr (KED)	4.152 ppb	2.7 %
89Y (KED)	99.445 %	1.0 %
107Ag (KED)	0.024 ppb	2.9 %
114Cd (KED)	0.034 ppb	16.2 %
115In (KED)	95.242 %	0.8 %
133Cs (KED)	0.079 ppb	2.0 %
138Ba (KED)	4.939 ppb	1.9 %
139La (KED)	0.327 ppb	1.8 %
140Ce (KED)	0.696 ppb	0.5 %
141Pr (KED)	0.081 ppb	1.0 %
142Nd (KED)	0.442 ppb	3.4 %
152Sm (KED)	0.062 ppb	2.9 %
153Eu (KED)	0.012 ppb	7.1 %
158Gd (KED)	0.055 ppb	3.7 %
159Tb (KED)	97.126 %	1.6 %
164Dy (KED)	0.041 ppb	7.9 %
166Er (KED)	0.018 ppb	3.5 %
169Tm (KED)	0.003 ppb	8.3 %
174Yb (KED)	0.017 ppb	1.2 %
175Lu (KED)	-0.022 ppb	2.9 %
205Tl (KED)	0.006 ppb	5.2 %
208Pb (KED)	0.532 ppb	1.1 %
209Bi (KED)	89.977 %	2.6 %
232Th (KED)	0.099 ppb	4.2 %
238U (KED)	0.018 ppb	3.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.958 %	3,160 cps	2.1 %
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	-7.285 ppb	269 cps	18.1 %
24Mg (KED)	261.957 ppb	167,300 cps	1.1 %
27Al (KED)	410.924 ppb	62,473 cps	0.5 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.233 %	56,311 cps	2.0 %
51V (KED)	0.769 ppb	7,841 cps	3.2 %
52Cr (KED)	1.158 ppb	18,628 cps	0.9 %
55Mn (KED)	10.483 ppb	79,834 cps	1.7 %
56Fe (KED)	381.047 ppb	5,370,116 cps	0.8 %
58Ni (KED)	1.657 ppb	30,889 cps	1.3 %
59Co (KED)	0.183 ppb	5,538 cps	0.9 %
63Cu (KED)	2.605 ppb	58,025 cps	0.4 %
64Zn (KED)	68.652 ppb	385,752 cps	13.5 %
69Ga (KED)	1.640 ppb	11,536 cps	2.0 %
75As (KED)	0.494 ppb	804 cps	1.9 %
80Se (KED)	0.221 ppb	1,451 cps	3.0 %
85Rb (KED)	1.061 ppb	6,543 cps	2.1 %
88Sr (KED)	4.152 ppb	35,709 cps	2.1 %
89Y (KED)	99.445 %	463,484 cps	1.0 %
107Ag (KED)	0.024 ppb	1,352 cps	3.7 %
114Cd (KED)	0.034 ppb	692 cps	15.2 %
115In (KED)	95.242 %	790,360 cps	0.8 %
133Cs (KED)	0.079 ppb	2,279 cps	2.7 %
138Ba (KED)	4.939 ppb	204,220 cps	1.8 %
139La (KED)	0.327 ppb	29,640 cps	2.3 %
140Ce (KED)	0.696 ppb	84,261 cps	1.1 %
141Pr (KED)	0.081 ppb	9,935 cps	2.5 %
142Nd (KED)	0.442 ppb	21,756 cps	4.3 %
152Sm (KED)	0.062 ppb	2,675 cps	4.1 %
153Eu (KED)	0.012 ppb	1,014 cps	7.7 %
158Gd (KED)	0.055 ppb	3,248 cps	2.6 %
159Tb (KED)	97.126 %	4,186,378 cps	1.6 %
164Dy (KED)	0.041 ppb	2,657 cps	7.5 %
166Er (KED)	0.018 ppb	1,689 cps	3.2 %
169Tm (KED)	0.003 ppb	661 cps	7.7 %
174Yb (KED)	0.017 ppb	1,557 cps	0.6 %
175Lu (KED)	-0.022 ppb	14,235 cps	1.7 %
205Tl (KED)	0.006 ppb	993 cps	4.3 %
208Pb (KED)	0.532 ppb	66,513 cps	1.6 %
209Bi (KED)	89.977 %	3,175,957 cps	2.6 %
232Th (KED)	0.099 ppb	23,744 cps	1.6 %
238U (KED)	0.018 ppb	4,939 cps	3.1 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 23

Analysis name: 315047603860505

Analysis started at: 11/4/2021 3:55:22 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	116.211 %	5.0 %
9Be (KED)	0.017 ppb	158.7 %
11B (KED)	-7.575 ppb	2.5 %
24Mg (KED)	219.405 ppb	4.1 %
27Al (KED)	2,366.516 ppb	45.3 %
45Sc (KED)	114.404 %	2.2 %
51V (KED)	0.928 ppb	9.3 %
52Cr (KED)	1.787 ppb	12.2 %
55Mn (KED)	7.421 ppb	1.2 %
56Fe (KED)	384.403 ppb	2.1 %
58Ni (KED)	1.858 ppb	1.0 %
59Co (KED)	0.188 ppb	2.3 %
63Cu (KED)	1.898 ppb	2.7 %
64Zn (KED)	56.245 ppb	0.7 %
69Ga (KED)	1.470 ppb	1.5 %
75As (KED)	0.290 ppb	7.3 %
80Se (KED)	0.156 ppb	57.3 %
85Rb (KED)	1.131 ppb	3.8 %
88Sr (KED)	4.787 ppb	1.4 %
89Y (KED)	107.799 %	2.6 %
107Ag (KED)	0.008 ppb	8.5 %
114Cd (KED)	0.013 ppb	16.9 %
115In (KED)	103.740 %	0.6 %
133Cs (KED)	0.064 ppb	4.2 %
138Ba (KED)	4.244 ppb	1.4 %
139La (KED)	0.327 ppb	2.5 %
140Ce (KED)	0.674 ppb	1.2 %
141Pr (KED)	0.080 ppb	0.8 %
142Nd (KED)	0.431 ppb	3.0 %
152Sm (KED)	0.061 ppb	6.2 %
153Eu (KED)	0.012 ppb	3.7 %
158Gd (KED)	0.052 ppb	0.4 %
159Tb (KED)	105.062 %	2.3 %
164Dy (KED)	0.039 ppb	0.5 %
166Er (KED)	0.019 ppb	4.2 %
169Tm (KED)	0.003 ppb	7.0 %
174Yb (KED)	0.017 ppb	2.7 %
175Lu (KED)	-0.022 ppb	6.0 %
205Tl (KED)	0.006 ppb	8.6 %
208Pb (KED)	0.510 ppb	2.9 %
209Bi (KED)	96.425 %	0.8 %
232Th (KED)	0.087 ppb	2.2 %
238U (KED)	0.022 ppb	10.2 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	116.211 %	3,434 cps	5.0 %
9Be (KED)	0.017 ppb	4 cps	114.6 %
11B (KED)	-7.575 ppb	266 cps	6.9 %
24Mg (KED)	219.405 ppb	152,128 cps	1.7 %
27Al (KED)	2,366.516 ppb	396,912 cps	47.1 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	114.404 %	61,806 cps	2.2 %
51V (KED)	0.928 ppb	10,389 cps	11.4 %
52Cr (KED)	1.787 ppb	31,557 cps	14.2 %
55Mn (KED)	7.421 ppb	62,058 cps	2.5 %
56Fe (KED)	384.403 ppb	5,948,891 cps	4.1 %
58Ni (KED)	1.858 ppb	37,958 cps	2.2 %
59Co (KED)	0.188 ppb	6,248 cps	3.3 %
63Cu (KED)	1.898 ppb	45,988 cps	1.6 %
64Zn (KED)	56.245 ppb	343,301 cps	2.1 %
69Ga (KED)	1.470 ppb	11,217 cps	3.1 %
75As (KED)	0.290 ppb	517 cps	7.2 %
80Se (KED)	0.156 ppb	1,540 cps	5.0 %
85Rb (KED)	1.131 ppb	7,550 cps	3.0 %
88Sr (KED)	4.787 ppb	44,600 cps	1.7 %
89Y (KED)	107.799 %	502,417 cps	2.6 %
107Ag (KED)	0.008 ppb	503 cps	8.1 %
114Cd (KED)	0.013 ppb	317 cps	15.6 %
115In (KED)	103.740 %	860,883 cps	0.6 %
133Cs (KED)	0.064 ppb	2,021 cps	4.2 %
138Ba (KED)	4.244 ppb	190,011 cps	0.9 %
139La (KED)	0.327 ppb	32,098 cps	4.2 %
140Ce (KED)	0.674 ppb	88,335 cps	3.4 %
141Pr (KED)	0.080 ppb	10,560 cps	1.4 %
142Nd (KED)	0.431 ppb	22,949 cps	4.2 %
152Sm (KED)	0.061 ppb	2,801 cps	4.0 %
153Eu (KED)	0.012 ppb	1,152 cps	5.0 %
158Gd (KED)	0.052 ppb	3,312 cps	2.6 %
159Tb (KED)	105.062 %	4,528,428 cps	2.3 %
164Dy (KED)	0.039 ppb	2,748 cps	1.8 %
166Er (KED)	0.019 ppb	1,867 cps	1.5 %
169Tm (KED)	0.003 ppb	810 cps	5.8 %
174Yb (KED)	0.017 ppb	1,706 cps	2.1 %
175Lu (KED)	-0.022 ppb	15,479 cps	3.5 %
205Tl (KED)	0.006 ppb	1,064 cps	7.8 %
208Pb (KED)	0.510 ppb	68,506 cps	2.4 %
209Bi (KED)	96.425 %	3,403,542 cps	0.8 %
232Th (KED)	0.087 ppb	22,361 cps	2.1 %
238U (KED)	0.022 ppb	6,242 cps	9.8 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 24

Analysis name: 315047603860452 jian

Analysis started at: 11/4/2021 3:58:47 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	117.076 %	3.3 %
9Be (KED)	0.005 ppb	215.6 %
11B (KED)	-7.940 ppb	2.2 %
24Mg (KED)	199.732 ppb	2.5 %
27Al (KED)	301.978 ppb	1.4 %
45Sc (KED)	109.223 %	1.1 %
51V (KED)	0.607 ppb	2.4 %
52Cr (KED)	0.935 ppb	3.2 %
55Mn (KED)	6.310 ppb	1.7 %
56Fe (KED)	300.370 ppb	2.1 %
58Ni (KED)	1.403 ppb	2.0 %
59Co (KED)	0.135 ppb	2.0 %
63Cu (KED)	2.281 ppb	0.4 %
64Zn (KED)	53.119 ppb	0.3 %
69Ga (KED)	1.267 ppb	4.3 %
75As (KED)	0.305 ppb	2.2 %
80Se (KED)	0.342 ppb	50.4 %
85Rb (KED)	1.470 ppb	2.4 %
88Sr (KED)	2.811 ppb	0.4 %
89Y (KED)	102.250 %	0.9 %
107Ag (KED)	0.011 ppb	7.8 %
114Cd (KED)	0.015 ppb	1.6 %
115In (KED)	96.927 %	0.4 %
133Cs (KED)	0.059 ppb	3.2 %
138Ba (KED)	3.721 ppb	1.0 %
139La (KED)	0.245 ppb	0.4 %
140Ce (KED)	0.515 ppb	0.1 %
141Pr (KED)	0.061 ppb	2.8 %
142Nd (KED)	0.330 ppb	1.5 %
152Sm (KED)	0.047 ppb	3.0 %
153Eu (KED)	0.009 ppb	9.3 %
158Gd (KED)	0.040 ppb	5.1 %
159Tb (KED)	99.042 %	0.9 %
164Dy (KED)	0.030 ppb	5.7 %
166Er (KED)	0.014 ppb	6.9 %
169Tm (KED)	0.002 ppb	6.7 %
174Yb (KED)	0.013 ppb	5.4 %
175Lu (KED)	-0.024 ppb	7.3 %
205Tl (KED)	0.005 ppb	3.8 %
208Pb (KED)	0.453 ppb	2.7 %
209Bi (KED)	92.456 %	1.8 %
232Th (KED)	0.067 ppb	3.6 %
238U (KED)	0.014 ppb	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	117.076 %	3,459 cps	3.3 %
9Be (KED)	0.005 ppb	2 cps	86.6 %
11B (KED)	-7.940 ppb	233 cps	8.0 %
24Mg (KED)	199.732 ppb	139,646 cps	1.0 %
27Al (KED)	301.978 ppb	48,145 cps	0.4 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	109.223 %	59,007 cps	1.1 %
51V (KED)	0.607 ppb	6,484 cps	1.6 %
52Cr (KED)	0.935 ppb	15,786 cps	2.5 %
55Mn (KED)	6.310 ppb	50,378 cps	1.1 %
56Fe (KED)	300.370 ppb	4,436,702 cps	1.3 %
58Ni (KED)	1.403 ppb	27,457 cps	0.9 %
59Co (KED)	0.135 ppb	4,293 cps	2.2 %
63Cu (KED)	2.281 ppb	52,323 cps	0.7 %
64Zn (KED)	53.119 ppb	307,770 cps	0.7 %
69Ga (KED)	1.267 ppb	9,187 cps	5.1 %
75As (KED)	0.305 ppb	514 cps	2.0 %
80Se (KED)	0.342 ppb	1,550 cps	5.4 %
85Rb (KED)	1.470 ppb	9,292 cps	3.0 %
88Sr (KED)	2.811 ppb	24,898 cps	0.6 %
89Y (KED)	102.250 %	476,557 cps	0.9 %
107Ag (KED)	0.011 ppb	628 cps	8.0 %
114Cd (KED)	0.015 ppb	334 cps	1.2 %
115In (KED)	96.927 %	804,348 cps	0.4 %
133Cs (KED)	0.059 ppb	1,746 cps	2.8 %
138Ba (KED)	3.721 ppb	157,260 cps	1.6 %
139La (KED)	0.245 ppb	22,693 cps	0.6 %
140Ce (KED)	0.515 ppb	63,637 cps	1.0 %
141Pr (KED)	0.061 ppb	7,578 cps	3.3 %
142Nd (KED)	0.330 ppb	16,559 cps	1.8 %
152Sm (KED)	0.047 ppb	2,048 cps	2.1 %
153Eu (KED)	0.009 ppb	842 cps	9.9 %
158Gd (KED)	0.040 ppb	2,408 cps	4.2 %
159Tb (KED)	99.042 %	4,268,961 cps	0.9 %
164Dy (KED)	0.030 ppb	2,005 cps	6.5 %
166Er (KED)	0.014 ppb	1,427 cps	5.9 %
169Tm (KED)	0.002 ppb	620 cps	6.1 %
174Yb (KED)	0.013 ppb	1,202 cps	6.2 %
175Lu (KED)	-0.024 ppb	14,237 cps	2.4 %
205Tl (KED)	0.005 ppb	928 cps	3.9 %
208Pb (KED)	0.453 ppb	58,789 cps	0.9 %
209Bi (KED)	92.456 %	3,263,444 cps	1.8 %
232Th (KED)	0.067 ppb	16,527 cps	3.9 %
238U (KED)	0.014 ppb	3,983 cps	1.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 25

Analysis name: 315047603860504

Analysis started at: 11/4/2021 4:02:01 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.231 %	5.6 %
9Be (KED)	-0.001 ppb	1,132.7 %
11B (KED)	-6.813 ppb	5.1 %
24Mg (KED)	246.469 ppb	6.1 %
27Al (KED)	272.470 ppb	1.2 %
45Sc (KED)	108.270 %	2.0 %
51V (KED)	0.550 ppb	2.6 %
52Cr (KED)	0.767 ppb	2.3 %
55Mn (KED)	7.913 ppb	0.6 %
56Fe (KED)	284.759 ppb	1.0 %
58Ni (KED)	1.321 ppb	1.1 %
59Co (KED)	0.186 ppb	3.1 %
63Cu (KED)	2.280 ppb	0.1 %
64Zn (KED)	61.127 ppb	1.4 %
69Ga (KED)	1.388 ppb	1.9 %
75As (KED)	0.308 ppb	10.2 %
80Se (KED)	0.270 ppb	42.0 %
85Rb (KED)	0.855 ppb	4.1 %
88Sr (KED)	5.606 ppb	4.2 %
89Y (KED)	101.657 %	0.7 %
107Ag (KED)	0.017 ppb	4.8 %
114Cd (KED)	0.019 ppb	7.6 %
115In (KED)	96.642 %	1.4 %
133Cs (KED)	0.052 ppb	7.4 %
138Ba (KED)	4.321 ppb	0.8 %
139La (KED)	0.254 ppb	1.5 %
140Ce (KED)	0.532 ppb	0.9 %
141Pr (KED)	0.061 ppb	3.5 %
142Nd (KED)	0.332 ppb	0.4 %
152Sm (KED)	0.048 ppb	0.5 %
153Eu (KED)	0.010 ppb	2.4 %
158Gd (KED)	0.043 ppb	3.1 %
159Tb (KED)	99.089 %	1.9 %
164Dy (KED)	0.032 ppb	7.3 %
166Er (KED)	0.015 ppb	6.8 %
169Tm (KED)	0.002 ppb	4.2 %
174Yb (KED)	0.013 ppb	5.2 %
175Lu (KED)	-0.021 ppb	8.5 %
205Tl (KED)	0.005 ppb	8.1 %
208Pb (KED)	0.341 ppb	3.8 %
209Bi (KED)	93.342 %	1.8 %
232Th (KED)	0.067 ppb	2.6 %
238U (KED)	0.016 ppb	3.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.231 %	3,257 cps	5.6 %
9Be (KED)	-0.001 ppb	1 cps	173.2 %
11B (KED)	-6.813 ppb	320 cps	12.6 %
24Mg (KED)	246.469 ppb	161,925 cps	1.3 %
27Al (KED)	272.470 ppb	43,072 cps	1.3 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	108.270 %	58,492 cps	2.0 %
51V (KED)	0.550 ppb	5,824 cps	3.9 %
52Cr (KED)	0.767 ppb	12,854 cps	0.8 %
55Mn (KED)	7.913 ppb	62,612 cps	1.5 %
56Fe (KED)	284.759 ppb	4,169,587 cps	1.1 %
58Ni (KED)	1.321 ppb	25,655 cps	1.3 %
59Co (KED)	0.186 ppb	5,855 cps	2.4 %
63Cu (KED)	2.280 ppb	51,983 cps	0.6 %
64Zn (KED)	61.127 ppb	351,530 cps	0.7 %
69Ga (KED)	1.388 ppb	9,995 cps	1.2 %
75As (KED)	0.308 ppb	517 cps	9.3 %
80Se (KED)	0.270 ppb	1,507 cps	3.6 %
85Rb (KED)	0.855 ppb	5,407 cps	4.6 %
88Sr (KED)	5.606 ppb	49,235 cps	3.7 %
89Y (KED)	101.657 %	473,791 cps	0.7 %
107Ag (KED)	0.017 ppb	963 cps	5.8 %
114Cd (KED)	0.019 ppb	398 cps	7.2 %
115In (KED)	96.642 %	801,981 cps	1.4 %
133Cs (KED)	0.052 ppb	1,540 cps	7.5 %
138Ba (KED)	4.321 ppb	182,465 cps	1.3 %
139La (KED)	0.254 ppb	23,520 cps	2.0 %
140Ce (KED)	0.532 ppb	65,803 cps	1.6 %
141Pr (KED)	0.061 ppb	7,662 cps	4.0 %
142Nd (KED)	0.332 ppb	16,658 cps	2.0 %
152Sm (KED)	0.048 ppb	2,107 cps	1.4 %
153Eu (KED)	0.010 ppb	857 cps	3.7 %
158Gd (KED)	0.043 ppb	2,570 cps	4.6 %
159Tb (KED)	99.089 %	4,270,975 cps	1.9 %
164Dy (KED)	0.032 ppb	2,120 cps	6.0 %
166Er (KED)	0.015 ppb	1,459 cps	3.9 %
169Tm (KED)	0.002 ppb	609 cps	5.0 %
174Yb (KED)	0.013 ppb	1,199 cps	3.6 %
175Lu (KED)	-0.021 ppb	14,775 cps	0.3 %
205Tl (KED)	0.005 ppb	820 cps	6.3 %
208Pb (KED)	0.341 ppb	45,682 cps	3.4 %
209Bi (KED)	93.342 %	3,294,743 cps	1.8 %
232Th (KED)	0.067 ppb	16,619 cps	1.0 %
238U (KED)	0.016 ppb	4,585 cps	2.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 26

Analysis name: 315047603860520jian

Analysis started at: 11/4/2021 4:05:13 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	113.315 %	3.5 %
9Be (KED)	0.011 ppb	163.1 %
11B (KED)	-6.244 ppb	5.0 %
24Mg (KED)	224.249 ppb	3.7 %
27Al (KED)	372.396 ppb	2.2 %
45Sc (KED)	105.628 %	1.5 %
51V (KED)	0.740 ppb	0.8 %
52Cr (KED)	1.091 ppb	1.7 %
55Mn (KED)	7.819 ppb	2.2 %
56Fe (KED)	364.647 ppb	1.6 %
58Ni (KED)	1.531 ppb	2.0 %
59Co (KED)	0.168 ppb	2.4 %
63Cu (KED)	2.143 ppb	1.8 %
64Zn (KED)	64.453 ppb	2.6 %
69Ga (KED)	1.305 ppb	3.5 %
75As (KED)	0.378 ppb	3.2 %
80Se (KED)	0.192 ppb	59.2 %
85Rb (KED)	0.860 ppb	3.0 %
88Sr (KED)	3.095 ppb	1.4 %
89Y (KED)	100.959 %	2.0 %
107Ag (KED)	0.025 ppb	2.4 %
114Cd (KED)	0.019 ppb	8.9 %
115In (KED)	95.293 %	1.2 %
133Cs (KED)	0.073 ppb	3.7 %
138Ba (KED)	4.015 ppb	2.7 %
139La (KED)	0.289 ppb	4.4 %
140Ce (KED)	0.589 ppb	3.6 %
141Pr (KED)	0.070 ppb	4.6 %
142Nd (KED)	0.370 ppb	4.5 %
152Sm (KED)	0.054 ppb	7.8 %
153Eu (KED)	0.010 ppb	10.8 %
158Gd (KED)	0.048 ppb	3.0 %
159Tb (KED)	97.093 %	3.6 %
164Dy (KED)	0.036 ppb	3.5 %
166Er (KED)	0.017 ppb	2.4 %
169Tm (KED)	0.002 ppb	9.2 %
174Yb (KED)	0.016 ppb	1.9 %
175Lu (KED)	-0.023 ppb	20.1 %
205Tl (KED)	0.006 ppb	5.0 %
208Pb (KED)	0.464 ppb	3.4 %
209Bi (KED)	91.649 %	1.6 %
232Th (KED)	0.080 ppb	3.2 %
238U (KED)	0.015 ppb	0.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	113.315 %	3,348 cps	3.5 %
9Be (KED)	0.011 ppb	3 cps	100.0 %
11B (KED)	-6.244 ppb	380 cps	4.9 %
24Mg (KED)	224.249 ppb	151,684 cps	1.2 %
27Al (KED)	372.396 ppb	57,388 cps	1.5 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.628 %	57,065 cps	1.5 %
51V (KED)	0.740 ppb	7,638 cps	1.1 %
52Cr (KED)	1.091 ppb	17,789 cps	2.3 %
55Mn (KED)	7.819 ppb	60,366 cps	2.4 %
56Fe (KED)	364.647 ppb	5,208,322 cps	0.6 %
58Ni (KED)	1.531 ppb	28,941 cps	0.9 %
59Co (KED)	0.168 ppb	5,153 cps	1.0 %
63Cu (KED)	2.143 ppb	48,559 cps	0.3 %
64Zn (KED)	64.453 ppb	367,815 cps	0.9 %
69Ga (KED)	1.305 ppb	9,336 cps	1.7 %
75As (KED)	0.378 ppb	627 cps	1.4 %
80Se (KED)	0.192 ppb	1,459 cps	3.3 %
85Rb (KED)	0.860 ppb	5,403 cps	5.0 %
88Sr (KED)	3.095 ppb	27,054 cps	2.1 %
89Y (KED)	100.959 %	470,539 cps	2.0 %
107Ag (KED)	0.025 ppb	1,391 cps	1.2 %
114Cd (KED)	0.019 ppb	406 cps	9.3 %
115In (KED)	95.293 %	790,789 cps	1.2 %
133Cs (KED)	0.073 ppb	2,121 cps	4.0 %
138Ba (KED)	4.015 ppb	166,145 cps	1.0 %
139La (KED)	0.289 ppb	26,114 cps	1.0 %
140Ce (KED)	0.589 ppb	71,303 cps	1.5 %
141Pr (KED)	0.070 ppb	8,513 cps	1.0 %
142Nd (KED)	0.370 ppb	18,208 cps	3.7 %
152Sm (KED)	0.054 ppb	2,311 cps	6.1 %
153Eu (KED)	0.010 ppb	896 cps	7.2 %
158Gd (KED)	0.048 ppb	2,824 cps	1.7 %
159Tb (KED)	97.093 %	4,184,918 cps	3.6 %
164Dy (KED)	0.036 ppb	2,318 cps	6.7 %
166Er (KED)	0.017 ppb	1,583 cps	3.3 %
169Tm (KED)	0.002 ppb	620 cps	12.1 %
174Yb (KED)	0.016 ppb	1,408 cps	3.0 %
175Lu (KED)	-0.023 ppb	14,130 cps	1.8 %
205Tl (KED)	0.006 ppb	958 cps	6.5 %
208Pb (KED)	0.464 ppb	59,684 cps	2.3 %
209Bi (KED)	91.649 %	3,234,968 cps	1.6 %
232Th (KED)	0.080 ppb	19,460 cps	2.5 %
238U (KED)	0.015 ppb	4,080 cps	2.0 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 27

Analysis name: 315047603860508jian

Analysis started at: 11/4/2021 4:08:24 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.221 %	1.7 %
9Be (KED)	-0.007 ppb	0.0 %
11B (KED)	-0.105 ppb	105.6 %
24Mg (KED)	170.302 ppb	2.8 %
27Al (KED)	261.838 ppb	1.6 %
45Sc (KED)	105.295 %	1.0 %
51V (KED)	0.482 ppb	1.3 %
52Cr (KED)	1.036 ppb	2.4 %
55Mn (KED)	6.812 ppb	2.2 %
56Fe (KED)	245.499 ppb	1.7 %
58Ni (KED)	1.290 ppb	0.6 %
59Co (KED)	0.122 ppb	2.2 %
63Cu (KED)	4.760 ppb	1.6 %
64Zn (KED)	60.789 ppb	1.0 %
69Ga (KED)	1.806 ppb	0.4 %
75As (KED)	0.307 ppb	6.0 %
80Se (KED)	0.138 ppb	29.1 %
85Rb (KED)	0.620 ppb	1.7 %
88Sr (KED)	2.851 ppb	2.7 %
89Y (KED)	102.275 %	0.5 %
107Ag (KED)	0.017 ppb	9.8 %
114Cd (KED)	0.020 ppb	7.3 %
115In (KED)	96.759 %	1.5 %
133Cs (KED)	0.053 ppb	3.6 %
138Ba (KED)	5.776 ppb	2.9 %
139La (KED)	0.199 ppb	3.0 %
140Ce (KED)	0.415 ppb	2.8 %
141Pr (KED)	0.048 ppb	2.2 %
142Nd (KED)	0.265 ppb	2.8 %
152Sm (KED)	0.038 ppb	8.1 %
153Eu (KED)	0.008 ppb	7.1 %
158Gd (KED)	0.033 ppb	1.4 %
159Tb (KED)	99.838 %	2.4 %
164Dy (KED)	0.026 ppb	8.6 %
166Er (KED)	0.012 ppb	5.0 %
169Tm (KED)	0.002 ppb	7.6 %
174Yb (KED)	0.011 ppb	1.1 %
175Lu (KED)	-0.024 ppb	12.6 %
205Tl (KED)	0.004 ppb	7.1 %
208Pb (KED)	0.669 ppb	0.9 %
209Bi (KED)	92.804 %	0.7 %
232Th (KED)	0.060 ppb	1.9 %
238U (KED)	0.013 ppb	5.9 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.221 %	3,168 cps	1.7 %
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	-0.105 ppb	890 cps	2.6 %
24Mg (KED)	170.302 ppb	109,103 cps	1.1 %
27Al (KED)	261.838 ppb	40,259 cps	0.6 %

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.295 %	56,885 cps	1.0 %
51V (KED)	0.482 ppb	4,960 cps	2.2 %
52Cr (KED)	1.036 ppb	16,853 cps	2.0 %
55Mn (KED)	6.812 ppb	52,428 cps	1.4 %
56Fe (KED)	245.499 ppb	3,496,355 cps	0.8 %
58Ni (KED)	1.290 ppb	24,374 cps	1.0 %
59Co (KED)	0.122 ppb	3,762 cps	1.7 %
63Cu (KED)	4.760 ppb	108,593 cps	1.4 %
64Zn (KED)	60.789 ppb	351,746 cps	0.7 %
69Ga (KED)	1.806 ppb	13,056 cps	0.6 %
75As (KED)	0.307 ppb	518 cps	5.8 %
80Se (KED)	0.138 ppb	1,452 cps	1.8 %
85Rb (KED)	0.620 ppb	3,972 cps	2.1 %
88Sr (KED)	2.851 ppb	25,257 cps	2.2 %
89Y (KED)	102.275 %	476,672 cps	0.5 %
107Ag (KED)	0.017 ppb	963 cps	8.4 %
114Cd (KED)	0.020 ppb	427 cps	6.2 %
115In (KED)	96.759 %	802,949 cps	1.5 %
133Cs (KED)	0.053 ppb	1,562 cps	3.3 %
138Ba (KED)	5.776 ppb	245,149 cps	1.4 %
139La (KED)	0.199 ppb	18,524 cps	0.7 %
140Ce (KED)	0.415 ppb	51,752 cps	0.3 %
141Pr (KED)	0.048 ppb	6,015 cps	3.7 %
142Nd (KED)	0.265 ppb	13,434 cps	1.3 %
152Sm (KED)	0.038 ppb	1,691 cps	5.8 %
153Eu (KED)	0.008 ppb	680 cps	5.0 %
158Gd (KED)	0.033 ppb	2,011 cps	2.5 %
159Tb (KED)	99.838 %	4,303,245 cps	2.4 %
164Dy (KED)	0.026 ppb	1,732 cps	6.0 %
166Er (KED)	0.012 ppb	1,216 cps	3.5 %
169Tm (KED)	0.002 ppb	487 cps	5.2 %
174Yb (KED)	0.011 ppb	1,037 cps	3.2 %
175Lu (KED)	-0.024 ppb	14,394 cps	3.1 %
205Tl (KED)	0.004 ppb	719 cps	7.5 %
208Pb (KED)	0.669 ppb	85,347 cps	1.3 %
209Bi (KED)	92.804 %	3,275,750 cps	0.7 %
232Th (KED)	0.060 ppb	14,991 cps	2.6 %
238U (KED)	0.013 ppb	3,616 cps	6.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 28

Analysis name: 305047603860469jian

Analysis started at: 11/4/2021 4:11:56 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.087 %	0.3 %
9Be (KED)	0.006 ppb	188.9 %
11B (KED)	3.173 ppb	30.8 %
24Mg (KED)	224.313 ppb	0.6 %
27Al (KED)	306.090 ppb	1.6 %
45Sc (KED)	106.654 %	1.0 %
51V (KED)	0.612 ppb	1.3 %
52Cr (KED)	1.225 ppb	1.7 %
55Mn (KED)	6.329 ppb	1.1 %
56Fe (KED)	313.470 ppb	1.3 %
58Ni (KED)	1.692 ppb	0.8 %
59Co (KED)	0.144 ppb	1.5 %
63Cu (KED)	3.611 ppb	1.8 %
64Zn (KED)	59.114 ppb	1.4 %
69Ga (KED)	1.216 ppb	0.6 %
75As (KED)	0.294 ppb	10.6 %
80Se (KED)	0.264 ppb	37.6 %
85Rb (KED)	0.987 ppb	4.4 %
88Sr (KED)	2.638 ppb	1.3 %
89Y (KED)	100.435 %	1.6 %
107Ag (KED)	0.011 ppb	10.0 %
114Cd (KED)	0.012 ppb	20.5 %
115In (KED)	98.115 %	0.9 %
133Cs (KED)	0.062 ppb	1.9 %
138Ba (KED)	3.736 ppb	4.3 %
139La (KED)	0.278 ppb	4.0 %
140Ce (KED)	0.562 ppb	4.2 %
141Pr (KED)	0.066 ppb	2.8 %
142Nd (KED)	0.395 ppb	20.1 %
152Sm (KED)	0.050 ppb	3.5 %
153Eu (KED)	0.010 ppb	8.2 %
158Gd (KED)	0.042 ppb	5.8 %
159Tb (KED)	98.135 %	3.2 %
164Dy (KED)	0.031 ppb	2.2 %
166Er (KED)	0.014 ppb	8.4 %
169Tm (KED)	0.002 ppb	8.6 %
174Yb (KED)	0.013 ppb	11.4 %
175Lu (KED)	-0.023 ppb	7.2 %
205Tl (KED)	0.004 ppb	1.7 %
208Pb (KED)	0.541 ppb	2.6 %
209Bi (KED)	93.617 %	1.8 %
232Th (KED)	0.083 ppb	1.9 %
238U (KED)	0.015 ppb	3.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.087 %	3,194 cps	0.3 %
9Be (KED)	0.006 ppb	2 cps	86.6 %
11B (KED)	3.173 ppb	1,182 cps	7.2 %
24Mg (KED)	224.313 ppb	144,843 cps	0.9 %
27Al (KED)	306.090 ppb	47,660 cps	2.3 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.654 %	57,619 cps	1.0 %
51V (KED)	0.612 ppb	6,383 cps	1.5 %
52Cr (KED)	1.225 ppb	20,160 cps	2.2 %
55Mn (KED)	6.329 ppb	49,354 cps	2.1 %
56Fe (KED)	313.470 ppb	4,521,648 cps	1.2 %
58Ni (KED)	1.692 ppb	32,276 cps	0.9 %
59Co (KED)	0.144 ppb	4,472 cps	0.6 %
63Cu (KED)	3.611 ppb	81,019 cps	1.2 %
64Zn (KED)	59.114 ppb	335,963 cps	0.3 %
69Ga (KED)	1.216 ppb	8,663 cps	2.1 %
75As (KED)	0.294 ppb	488 cps	11.5 %
80Se (KED)	0.264 ppb	1,486 cps	3.0 %
85Rb (KED)	0.987 ppb	6,154 cps	2.9 %
88Sr (KED)	2.638 ppb	22,957 cps	1.3 %
89Y (KED)	100.435 %	468,096 cps	1.6 %
107Ag (KED)	0.011 ppb	617 cps	10.0 %
114Cd (KED)	0.012 ppb	269 cps	19.2 %
115In (KED)	98.115 %	814,206 cps	0.9 %
133Cs (KED)	0.062 ppb	1,858 cps	2.7 %
138Ba (KED)	3.736 ppb	156,332 cps	2.1 %
139La (KED)	0.278 ppb	25,410 cps	0.8 %
140Ce (KED)	0.562 ppb	68,746 cps	1.9 %
141Pr (KED)	0.066 ppb	8,104 cps	0.4 %
142Nd (KED)	0.395 ppb	19,560 cps	16.7 %
152Sm (KED)	0.050 ppb	2,156 cps	2.7 %
153Eu (KED)	0.010 ppb	837 cps	4.9 %
158Gd (KED)	0.042 ppb	2,515 cps	6.8 %
159Tb (KED)	98.135 %	4,229,851 cps	3.2 %
164Dy (KED)	0.031 ppb	2,003 cps	2.6 %
166Er (KED)	0.014 ppb	1,373 cps	5.6 %
169Tm (KED)	0.002 ppb	551 cps	5.1 %
174Yb (KED)	0.013 ppb	1,187 cps	10.0 %
175Lu (KED)	-0.023 ppb	14,253 cps	1.4 %
205Tl (KED)	0.004 ppb	786 cps	1.4 %
208Pb (KED)	0.541 ppb	70,359 cps	1.6 %
209Bi (KED)	93.617 %	3,304,429 cps	1.8 %
232Th (KED)	0.083 ppb	20,736 cps	1.2 %
238U (KED)	0.015 ppb	4,172 cps	3.9 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 29

Analysis name: 315042603860515jian

Analysis started at: 11/4/2021 4:17:15 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	109.742 %	2.5 %
9Be (KED)	0.005 ppb	196.2 %
11B (KED)	-3.004 ppb	8.7 %
24Mg (KED)	211.789 ppb	3.0 %
27Al (KED)	443.741 ppb	1.9 %
45Sc (KED)	105.435 %	1.7 %
51V (KED)	0.886 ppb	1.4 %
52Cr (KED)	1.486 ppb	2.0 %
55Mn (KED)	8.581 ppb	2.0 %
56Fe (KED)	431.990 ppb	1.6 %
58Ni (KED)	2.104 ppb	1.5 %
59Co (KED)	0.195 ppb	1.0 %
63Cu (KED)	3.419 ppb	1.9 %
64Zn (KED)	66.316 ppb	1.1 %
69Ga (KED)	1.514 ppb	0.8 %
75As (KED)	0.311 ppb	3.8 %
80Se (KED)	0.049 ppb	288.0 %
85Rb (KED)	1.001 ppb	1.5 %
88Sr (KED)	3.217 ppb	2.2 %
89Y (KED)	101.852 %	0.4 %
107Ag (KED)	0.016 ppb	7.3 %
114Cd (KED)	0.016 ppb	10.4 %
115In (KED)	96.791 %	1.0 %
133Cs (KED)	0.085 ppb	7.7 %
138Ba (KED)	4.738 ppb	2.4 %
139La (KED)	0.377 ppb	0.5 %
140Ce (KED)	0.749 ppb	0.8 %
141Pr (KED)	0.093 ppb	2.4 %
142Nd (KED)	0.487 ppb	1.4 %
152Sm (KED)	0.073 ppb	3.2 %
153Eu (KED)	0.015 ppb	4.9 %
158Gd (KED)	0.061 ppb	3.7 %
159Tb (KED)	98.864 %	0.6 %
164Dy (KED)	0.046 ppb	2.0 %
166Er (KED)	0.021 ppb	8.4 %
169Tm (KED)	0.003 ppb	6.1 %
174Yb (KED)	0.019 ppb	7.4 %
175Lu (KED)	-0.025 ppb	4.5 %
205Tl (KED)	0.006 ppb	0.9 %
208Pb (KED)	0.517 ppb	1.1 %
209Bi (KED)	92.112 %	0.7 %
232Th (KED)	0.106 ppb	2.3 %
238U (KED)	0.019 ppb	1.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	109.742 %	3,243 cps	2.5 %
9Be (KED)	0.005 ppb	2 cps	86.6 %
11B (KED)	-3.004 ppb	654 cps	2.6 %
24Mg (KED)	211.789 ppb	138,794 cps	0.8 %
27Al (KED)	443.741 ppb	68,233 cps	0.2 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.435 %	56,961 cps	1.7 %
51V (KED)	0.886 ppb	9,128 cps	0.4 %
52Cr (KED)	1.486 ppb	24,149 cps	0.3 %
55Mn (KED)	8.581 ppb	66,102 cps	0.4 %
56Fe (KED)	431.990 ppb	6,159,090 cps	2.0 %
58Ni (KED)	2.104 ppb	39,565 cps	1.1 %
59Co (KED)	0.195 ppb	5,979 cps	2.3 %
63Cu (KED)	3.419 ppb	77,832 cps	1.6 %
64Zn (KED)	66.316 ppb	381,801 cps	0.9 %
69Ga (KED)	1.514 ppb	10,916 cps	0.9 %
75As (KED)	0.311 ppb	523 cps	3.4 %
80Se (KED)	0.049 ppb	1,403 cps	4.9 %
85Rb (KED)	1.001 ppb	6,330 cps	1.2 %
88Sr (KED)	3.217 ppb	28,369 cps	2.0 %
89Y (KED)	101.852 %	474,702 cps	0.4 %
107Ag (KED)	0.016 ppb	900 cps	7.6 %
114Cd (KED)	0.016 ppb	343 cps	8.6 %
115In (KED)	96.791 %	803,219 cps	1.0 %
133Cs (KED)	0.085 ppb	2,509 cps	6.9 %
138Ba (KED)	4.738 ppb	199,489 cps	1.7 %
139La (KED)	0.377 ppb	34,756 cps	1.0 %
140Ce (KED)	0.749 ppb	92,352 cps	0.1 %
141Pr (KED)	0.093 ppb	11,620 cps	1.7 %
142Nd (KED)	0.487 ppb	24,364 cps	1.8 %
152Sm (KED)	0.073 ppb	3,167 cps	3.8 %
153Eu (KED)	0.015 ppb	1,291 cps	4.3 %
158Gd (KED)	0.061 ppb	3,671 cps	4.0 %
159Tb (KED)	98.864 %	4,261,270 cps	0.6 %
164Dy (KED)	0.046 ppb	3,050 cps	1.7 %
166Er (KED)	0.021 ppb	1,901 cps	6.5 %
169Tm (KED)	0.003 ppb	778 cps	6.7 %
174Yb (KED)	0.019 ppb	1,776 cps	7.2 %
175Lu (KED)	-0.025 ppb	14,137 cps	0.8 %
205Tl (KED)	0.006 ppb	1,058 cps	0.2 %
208Pb (KED)	0.517 ppb	66,403 cps	0.4 %
209Bi (KED)	92.112 %	3,251,303 cps	0.7 %
232Th (KED)	0.106 ppb	25,947 cps	1.8 %
238U (KED)	0.019 ppb	5,158 cps	1.3 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 30

Analysis name: 315042603860521jian

Analysis started at: 11/4/2021 4:20:25 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.259 %	3.5 %
9Be (KED)	0.013 ppb	154.0 %
11B (KED)	1.014 ppb	117.2 %
24Mg (KED)	206.919 ppb	4.0 %
27Al (KED)	268.586 ppb	3.2 %
45Sc (KED)	104.803 %	0.4 %
51V (KED)	0.511 ppb	3.2 %
52Cr (KED)	0.865 ppb	2.4 %
55Mn (KED)	7.048 ppb	1.7 %
56Fe (KED)	255.880 ppb	1.6 %
58Ni (KED)	1.373 ppb	0.5 %
59Co (KED)	0.138 ppb	2.6 %
63Cu (KED)	3.289 ppb	1.0 %
64Zn (KED)	61.708 ppb	2.0 %
69Ga (KED)	1.208 ppb	2.8 %
75As (KED)	0.242 ppb	11.5 %
80Se (KED)	0.112 ppb	213.6 %
85Rb (KED)	1.366 ppb	2.3 %
88Sr (KED)	3.008 ppb	2.6 %
89Y (KED)	100.309 %	1.1 %
107Ag (KED)	0.011 ppb	11.1 %
114Cd (KED)	0.016 ppb	1.2 %
115In (KED)	97.043 %	0.4 %
133Cs (KED)	0.054 ppb	3.7 %
138Ba (KED)	3.683 ppb	0.5 %
139La (KED)	0.223 ppb	2.1 %
140Ce (KED)	0.465 ppb	1.9 %
141Pr (KED)	0.055 ppb	5.2 %
142Nd (KED)	0.302 ppb	3.4 %
152Sm (KED)	0.045 ppb	3.6 %
153Eu (KED)	0.009 ppb	2.5 %
158Gd (KED)	0.038 ppb	2.3 %
159Tb (KED)	100.023 %	2.2 %
164Dy (KED)	0.028 ppb	3.6 %
166Er (KED)	0.013 ppb	5.4 %
169Tm (KED)	0.002 ppb	14.6 %
174Yb (KED)	0.012 ppb	3.3 %
175Lu (KED)	-0.024 ppb	3.9 %
205Tl (KED)	0.005 ppb	6.3 %
208Pb (KED)	0.504 ppb	4.3 %
209Bi (KED)	93.113 %	1.2 %
232Th (KED)	0.071 ppb	1.4 %
238U (KED)	0.016 ppb	2.8 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.259 %	3,169 cps	3.5 %
9Be (KED)	0.013 ppb	3 cps	100.0 %
11B (KED)	1.014 ppb	984 cps	7.1 %
24Mg (KED)	206.919 ppb	132,478 cps	0.6 %
27Al (KED)	268.586 ppb	41,102 cps	2.9 %

Comprehensive

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Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.803 %	56,619 cps	0.4 %
51V (KED)	0.511 ppb	5,238 cps	3.5 %
52Cr (KED)	0.865 ppb	14,009 cps	2.1 %
55Mn (KED)	7.048 ppb	53,991 cps	1.3 %
56Fe (KED)	255.880 ppb	3,627,579 cps	2.0 %
58Ni (KED)	1.373 ppb	25,804 cps	0.8 %
59Co (KED)	0.138 ppb	4,220 cps	2.9 %
63Cu (KED)	3.289 ppb	73,759 cps	2.1 %
64Zn (KED)	61.708 ppb	350,103 cps	1.0 %
69Ga (KED)	1.208 ppb	8,593 cps	3.5 %
75As (KED)	0.242 ppb	403 cps	12.2 %
80Se (KED)	0.112 ppb	1,411 cps	6.9 %
85Rb (KED)	1.366 ppb	8,475 cps	1.9 %
88Sr (KED)	3.008 ppb	26,122 cps	1.5 %
89Y (KED)	100.309 %	467,510 cps	1.1 %
107Ag (KED)	0.011 ppb	644 cps	10.6 %
114Cd (KED)	0.016 ppb	354 cps	1.4 %
115In (KED)	97.043 %	805,308 cps	0.4 %
133Cs (KED)	0.054 ppb	1,602 cps	4.0 %
138Ba (KED)	3.683 ppb	157,224 cps	2.7 %
139La (KED)	0.223 ppb	20,806 cps	1.7 %
140Ce (KED)	0.465 ppb	58,037 cps	1.0 %
141Pr (KED)	0.055 ppb	6,952 cps	3.7 %
142Nd (KED)	0.302 ppb	15,309 cps	1.6 %
152Sm (KED)	0.045 ppb	1,970 cps	2.5 %
153Eu (KED)	0.009 ppb	770 cps	4.1 %
158Gd (KED)	0.038 ppb	2,304 cps	1.1 %
159Tb (KED)	100.023 %	4,311,241 cps	2.2 %
164Dy (KED)	0.028 ppb	1,887 cps	2.4 %
166Er (KED)	0.013 ppb	1,286 cps	4.8 %
169Tm (KED)	0.002 ppb	500 cps	16.2 %
174Yb (KED)	0.012 ppb	1,080 cps	5.3 %
175Lu (KED)	-0.024 ppb	14,496 cps	2.1 %
205Tl (KED)	0.005 ppb	808 cps	6.4 %
208Pb (KED)	0.504 ppb	65,531 cps	3.9 %
209Bi (KED)	93.113 %	3,286,660 cps	1.2 %
232Th (KED)	0.071 ppb	17,561 cps	0.8 %
238U (KED)	0.016 ppb	4,331 cps	1.7 %

Sample Summary

Instrument ID: iCAP Q

Analysis index: 31

Analysis name: 270jian

Analysis started at: 11/4/2021 4:23:35 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	111.810 %	
9Be (KED)	-0.007 ppb	
11B (KED)	7.511 ppb	
24Mg (KED)	172.621 ppb	
27Al (KED)	172.508 ppb	
45Sc (KED)	106.047 %	
51V (KED)	0.357 ppb	
52Cr (KED)	2.165 ppb	
55Mn (KED)	4.771 ppb	
56Fe (KED)	200.905 ppb	
58Ni (KED)	1.517 ppb	
59Co (KED)	0.093 ppb	
63Cu (KED)	1.883 ppb	
64Zn (KED)	63.573 ppb	
69Ga (KED)	0.600 ppb	
75As (KED)	0.186 ppb	
80Se (KED)	0.267 ppb	
85Rb (KED)	0.657 ppb	
88Sr (KED)	2.336 ppb	
89Y (KED)	101.780 %	
107Ag (KED)	0.013 ppb	
114Cd (KED)	0.008 ppb	
115In (KED)	96.918 %	
133Cs (KED)	0.036 ppb	
138Ba (KED)	1.796 ppb	
139La (KED)	0.157 ppb	
140Ce (KED)	0.314 ppb	
141Pr (KED)	0.035 ppb	
142Nd (KED)	0.193 ppb	
152Sm (KED)	0.026 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.023 ppb	
159Tb (KED)	99.952 %	
164Dy (KED)	0.016 ppb	
166Er (KED)	0.007 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.007 ppb	
175Lu (KED)	-0.018 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.312 ppb	
209Bi (KED)	95.107 %	
232Th (KED)	0.050 ppb	
238U (KED)	0.018 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	111.810 %	3,304 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	7.511 ppb	1,613 cps	
24Mg (KED)	172.621 ppb	115,354 cps	
27Al (KED)	172.508 ppb	26,755 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.047 %	57,291 cps	
51V (KED)	0.357 ppb	3,704 cps	
52Cr (KED)	2.165 ppb	35,357 cps	
55Mn (KED)	4.771 ppb	37,005 cps	
56Fe (KED)	200.905 ppb	2,882,420 cps	
58Ni (KED)	1.517 ppb	28,797 cps	
59Co (KED)	0.093 ppb	2,877 cps	
63Cu (KED)	1.883 ppb	43,091 cps	
64Zn (KED)	63.573 ppb	365,911 cps	
69Ga (KED)	0.600 ppb	4,377 cps	
75As (KED)	0.186 ppb	317 cps	
80Se (KED)	0.267 ppb	1,507 cps	
85Rb (KED)	0.657 ppb	4,181 cps	
88Sr (KED)	2.336 ppb	20,620 cps	
89Y (KED)	101.780 %	474,366 cps	
107Ag (KED)	0.013 ppb	760 cps	
114Cd (KED)	0.008 ppb	187 cps	
115In (KED)	96.918 %	804,267 cps	
133Cs (KED)	0.036 ppb	1,077 cps	
138Ba (KED)	1.796 ppb	77,363 cps	
139La (KED)	0.157 ppb	14,659 cps	
140Ce (KED)	0.314 ppb	39,359 cps	
141Pr (KED)	0.035 ppb	4,454 cps	
142Nd (KED)	0.193 ppb	9,811 cps	
152Sm (KED)	0.026 ppb	1,140 cps	
153Eu (KED)	0.005 ppb	467 cps	
158Gd (KED)	0.023 ppb	1,380 cps	
159Tb (KED)	99.952 %	4,308,185 cps	
164Dy (KED)	0.016 ppb	1,093 cps	
166Er (KED)	0.007 ppb	850 cps	
169Tm (KED)	0.001 ppb	243 cps	
174Yb (KED)	0.007 ppb	633 cps	
175Lu (KED)	-0.018 ppb	15,286 cps	
205Tl (KED)	0.003 ppb	587 cps	
208Pb (KED)	0.312 ppb	42,884 cps	
209Bi (KED)	95.107 %	3,357,046 cps	
232Th (KED)	0.050 ppb	12,753 cps	
238U (KED)	0.018 ppb	4,978 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 32

Analysis name: 272jian

Analysis started at: 11/4/2021 4:25:26 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.876 %	
9Be (KED)	-0.007 ppb	
11B (KED)	5.179 ppb	
24Mg (KED)	212.339 ppb	
27Al (KED)	184.021 ppb	
45Sc (KED)	103.846 %	
51V (KED)	0.408 ppb	
52Cr (KED)	1.100 ppb	
55Mn (KED)	6.316 ppb	
56Fe (KED)	278.119 ppb	
58Ni (KED)	1.479 ppb	
59Co (KED)	0.121 ppb	
63Cu (KED)	2.214 ppb	
64Zn (KED)	61.978 ppb	
69Ga (KED)	0.774 ppb	
75As (KED)	0.235 ppb	
80Se (KED)	0.322 ppb	
85Rb (KED)	0.542 ppb	
88Sr (KED)	3.022 ppb	
89Y (KED)	101.568 %	
107Ag (KED)	0.008 ppb	
114Cd (KED)	0.013 ppb	
115In (KED)	97.751 %	
133Cs (KED)	0.042 ppb	
138Ba (KED)	2.266 ppb	
139La (KED)	0.177 ppb	
140Ce (KED)	0.365 ppb	
141Pr (KED)	0.041 ppb	
142Nd (KED)	0.225 ppb	
152Sm (KED)	0.029 ppb	
153Eu (KED)	0.006 ppb	
158Gd (KED)	0.027 ppb	
159Tb (KED)	99.395 %	
164Dy (KED)	0.020 ppb	
166Er (KED)	0.007 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.009 ppb	
175Lu (KED)	-0.023 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.456 ppb	
209Bi (KED)	92.212 %	
232Th (KED)	0.062 ppb	
238U (KED)	0.023 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.876 %	3,217 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	5.179 ppb	1,367 cps	
24Mg (KED)	212.339 ppb	138,123 cps	
27Al (KED)	184.021 ppb	27,941 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.846 %	56,102 cps	
51V (KED)	0.408 ppb	4,141 cps	
52Cr (KED)	1.100 ppb	17,636 cps	
55Mn (KED)	6.316 ppb	47,952 cps	
56Fe (KED)	278.119 ppb	3,906,540 cps	
58Ni (KED)	1.479 ppb	27,510 cps	
59Co (KED)	0.121 ppb	3,661 cps	
63Cu (KED)	2.214 ppb	50,458 cps	
64Zn (KED)	61.978 ppb	356,087 cps	
69Ga (KED)	0.774 ppb	5,611 cps	
75As (KED)	0.235 ppb	397 cps	
80Se (KED)	0.322 ppb	1,530 cps	
85Rb (KED)	0.542 ppb	3,457 cps	
88Sr (KED)	3.022 ppb	26,582 cps	
89Y (KED)	101.568 %	473,378 cps	
107Ag (KED)	0.008 ppb	450 cps	
114Cd (KED)	0.013 ppb	293 cps	
115In (KED)	97.751 %	811,182 cps	
133Cs (KED)	0.042 ppb	1,243 cps	
138Ba (KED)	2.266 ppb	96,673 cps	
139La (KED)	0.177 ppb	16,441 cps	
140Ce (KED)	0.365 ppb	45,436 cps	
141Pr (KED)	0.041 ppb	5,131 cps	
142Nd (KED)	0.225 ppb	11,379 cps	
152Sm (KED)	0.029 ppb	1,290 cps	
153Eu (KED)	0.006 ppb	537 cps	
158Gd (KED)	0.027 ppb	1,607 cps	
159Tb (KED)	99.395 %	4,284,167 cps	
164Dy (KED)	0.020 ppb	1,303 cps	
166Er (KED)	0.007 ppb	863 cps	
169Tm (KED)	0.001 ppb	313 cps	
174Yb (KED)	0.009 ppb	867 cps	
175Lu (KED)	-0.023 ppb	14,452 cps	
205Tl (KED)	0.004 ppb	633 cps	
208Pb (KED)	0.456 ppb	59,060 cps	
209Bi (KED)	92.212 %	3,254,855 cps	
232Th (KED)	0.062 ppb	15,393 cps	
238U (KED)	0.023 ppb	6,232 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 33

Analysis name: 17064jian

Analysis started at: 11/4/2021 4:27:14 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.394 %	
9Be (KED)	0.012 ppb	
11B (KED)	17.728 ppb	
24Mg (KED)	176.528 ppb	
27Al (KED)	153.504 ppb	
45Sc (KED)	106.369 %	
51V (KED)	0.294 ppb	
52Cr (KED)	0.437 ppb	
55Mn (KED)	5.033 ppb	
56Fe (KED)	169.771 ppb	
58Ni (KED)	1.174 ppb	
59Co (KED)	0.080 ppb	
63Cu (KED)	2.382 ppb	
64Zn (KED)	65.914 ppb	
69Ga (KED)	0.587 ppb	
75As (KED)	0.129 ppb	
80Se (KED)	0.230 ppb	
85Rb (KED)	0.446 ppb	
88Sr (KED)	2.632 ppb	
89Y (KED)	100.251 %	
107Ag (KED)	0.006 ppb	
114Cd (KED)	0.007 ppb	
115In (KED)	95.395 %	
133Cs (KED)	0.037 ppb	
138Ba (KED)	1.825 ppb	
139La (KED)	0.141 ppb	
140Ce (KED)	0.291 ppb	
141Pr (KED)	0.033 ppb	
142Nd (KED)	0.174 ppb	
152Sm (KED)	0.024 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.020 ppb	
159Tb (KED)	98.788 %	
164Dy (KED)	0.016 ppb	
166Er (KED)	0.004 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.023 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.397 ppb	
209Bi (KED)	94.113 %	
232Th (KED)	0.047 ppb	
238U (KED)	0.017 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.394 %	3,144 cps	
9Be (KED)	0.012 ppb	3 cps	
11B (KED)	17.728 ppb	2,410 cps	
24Mg (KED)	176.528 ppb	112,245 cps	
27Al (KED)	153.504 ppb	23,893 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.369 %	57,465 cps	
51V (KED)	0.294 ppb	3,064 cps	
52Cr (KED)	0.437 ppb	7,239 cps	
55Mn (KED)	5.033 ppb	39,155 cps	
56Fe (KED)	169.771 ppb	2,443,502 cps	
58Ni (KED)	1.174 ppb	22,440 cps	
59Co (KED)	0.080 ppb	2,497 cps	
63Cu (KED)	2.382 ppb	53,541 cps	
64Zn (KED)	65.914 ppb	373,554 cps	
69Ga (KED)	0.587 ppb	4,221 cps	
75As (KED)	0.129 ppb	220 cps	
80Se (KED)	0.230 ppb	1,467 cps	
85Rb (KED)	0.446 ppb	2,824 cps	
88Sr (KED)	2.632 ppb	22,864 cps	
89Y (KED)	100.251 %	467,241 cps	
107Ag (KED)	0.006 ppb	337 cps	
114Cd (KED)	0.007 ppb	157 cps	
115In (KED)	95.395 %	791,634 cps	
133Cs (KED)	0.037 ppb	1,097 cps	
138Ba (KED)	1.825 ppb	77,692 cps	
139La (KED)	0.141 ppb	12,983 cps	
140Ce (KED)	0.291 ppb	36,055 cps	
141Pr (KED)	0.033 ppb	4,154 cps	
142Nd (KED)	0.174 ppb	8,736 cps	
152Sm (KED)	0.024 ppb	1,037 cps	
153Eu (KED)	0.004 ppb	380 cps	
158Gd (KED)	0.020 ppb	1,177 cps	
159Tb (KED)	98.788 %	4,257,994 cps	
164Dy (KED)	0.016 ppb	1,050 cps	
166Er (KED)	0.004 ppb	630 cps	
169Tm (KED)	0.001 ppb	317 cps	
174Yb (KED)	0.006 ppb	597 cps	
175Lu (KED)	-0.023 ppb	14,372 cps	
205Tl (KED)	0.003 ppb	483 cps	
208Pb (KED)	0.397 ppb	53,023 cps	
209Bi (KED)	94.113 %	3,321,938 cps	
232Th (KED)	0.047 ppb	11,956 cps	
238U (KED)	0.017 ppb	4,678 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 34

Analysis name: 17036jian

Analysis started at: 11/4/2021 4:29:07 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.958 %	
9Be (KED)	0.012 ppb	
11B (KED)	8.634 ppb	
24Mg (KED)	228.465 ppb	
27Al (KED)	184.796 ppb	
45Sc (KED)	105.799 %	
51V (KED)	0.439 ppb	
52Cr (KED)	0.815 ppb	
55Mn (KED)	5.515 ppb	
56Fe (KED)	215.580 ppb	
58Ni (KED)	1.269 ppb	
59Co (KED)	0.115 ppb	
63Cu (KED)	1.861 ppb	
64Zn (KED)	58.509 ppb	
69Ga (KED)	0.657 ppb	
75As (KED)	0.196 ppb	
80Se (KED)	0.244 ppb	
85Rb (KED)	0.697 ppb	
88Sr (KED)	2.822 ppb	
89Y (KED)	102.733 %	
107Ag (KED)	0.009 ppb	
114Cd (KED)	0.006 ppb	
115In (KED)	98.095 %	
133Cs (KED)	0.042 ppb	
138Ba (KED)	1.992 ppb	
139La (KED)	0.162 ppb	
140Ce (KED)	0.348 ppb	
141Pr (KED)	0.042 ppb	
142Nd (KED)	0.228 ppb	
152Sm (KED)	0.029 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.029 ppb	
159Tb (KED)	101.436 %	
164Dy (KED)	0.016 ppb	
166Er (KED)	0.007 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.007 ppb	
175Lu (KED)	-0.022 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.349 ppb	
209Bi (KED)	95.054 %	
232Th (KED)	0.057 ppb	
238U (KED)	0.023 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.958 %	3,160 cps	
9Be (KED)	0.012 ppb	3 cps	
11B (KED)	8.634 ppb	1,640 cps	
24Mg (KED)	228.465 ppb	145,978 cps	
27Al (KED)	184.796 ppb	28,586 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.799 %	57,157 cps	
51V (KED)	0.439 ppb	4,548 cps	
52Cr (KED)	0.815 ppb	13,334 cps	
55Mn (KED)	5.515 ppb	42,669 cps	
56Fe (KED)	215.580 ppb	3,085,557 cps	
58Ni (KED)	1.269 ppb	24,097 cps	
59Co (KED)	0.115 ppb	3,564 cps	
63Cu (KED)	1.861 ppb	42,981 cps	
64Zn (KED)	58.509 ppb	340,220 cps	
69Ga (KED)	0.657 ppb	4,831 cps	
75As (KED)	0.196 ppb	337 cps	
80Se (KED)	0.244 ppb	1,510 cps	
85Rb (KED)	0.697 ppb	4,471 cps	
88Sr (KED)	2.822 ppb	25,115 cps	
89Y (KED)	102.733 %	478,806 cps	
107Ag (KED)	0.009 ppb	553 cps	
114Cd (KED)	0.006 ppb	153 cps	
115In (KED)	98.095 %	814,041 cps	
133Cs (KED)	0.042 ppb	1,253 cps	
138Ba (KED)	1.992 ppb	86,946 cps	
139La (KED)	0.162 ppb	15,349 cps	
140Ce (KED)	0.348 ppb	44,238 cps	
141Pr (KED)	0.042 ppb	5,364 cps	
142Nd (KED)	0.228 ppb	11,762 cps	
152Sm (KED)	0.029 ppb	1,277 cps	
153Eu (KED)	0.005 ppb	487 cps	
158Gd (KED)	0.029 ppb	1,757 cps	
159Tb (KED)	101.436 %	4,372,145 cps	
164Dy (KED)	0.016 ppb	1,093 cps	
166Er (KED)	0.007 ppb	883 cps	
169Tm (KED)	0.002 ppb	403 cps	
174Yb (KED)	0.007 ppb	637 cps	
175Lu (KED)	-0.022 ppb	15,009 cps	
205Tl (KED)	0.004 ppb	733 cps	
208Pb (KED)	0.349 ppb	47,507 cps	
209Bi (KED)	95.054 %	3,355,161 cps	
232Th (KED)	0.057 ppb	14,592 cps	
238U (KED)	0.023 ppb	6,485 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 35

Analysis name: 266jian

Analysis started at: 11/4/2021 4:30:57 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	113.165 %	
9Be (KED)	-0.007 ppb	
11B (KED)	2.356 ppb	
24Mg (KED)	292.739 ppb	
27Al (KED)	313.273 ppb	
45Sc (KED)	105.402 %	
51V (KED)	0.658 ppb	
52Cr (KED)	0.762 ppb	
55Mn (KED)	9.902 ppb	
56Fe (KED)	410.609 ppb	
58Ni (KED)	2.235 ppb	
59Co (KED)	0.179 ppb	
63Cu (KED)	2.211 ppb	
64Zn (KED)	54.053 ppb	
69Ga (KED)	1.706 ppb	
75As (KED)	0.251 ppb	
80Se (KED)	0.242 ppb	
85Rb (KED)	0.824 ppb	
88Sr (KED)	4.323 ppb	
89Y (KED)	99.405 %	
107Ag (KED)	0.013 ppb	
114Cd (KED)	0.012 ppb	
115In (KED)	96.193 %	
133Cs (KED)	0.078 ppb	
138Ba (KED)	5.337 ppb	
139La (KED)	0.276 ppb	
140Ce (KED)	0.572 ppb	
141Pr (KED)	0.063 ppb	
142Nd (KED)	0.338 ppb	
152Sm (KED)	0.049 ppb	
153Eu (KED)	0.009 ppb	
158Gd (KED)	0.042 ppb	
159Tb (KED)	98.558 %	
164Dy (KED)	0.028 ppb	
166Er (KED)	0.014 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.013 ppb	
175Lu (KED)	-0.023 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.647 ppb	
209Bi (KED)	94.042 %	
232Th (KED)	0.092 ppb	
238U (KED)	0.028 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	113.165 %	3,344 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	2.356 ppb	1,163 cps	
24Mg (KED)	292.739 ppb	197,838 cps	
27Al (KED)	313.273 ppb	48,200 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.402 %	56,943 cps	
51V (KED)	0.658 ppb	6,785 cps	
52Cr (KED)	0.762 ppb	12,433 cps	
55Mn (KED)	9.902 ppb	76,266 cps	
56Fe (KED)	410.609 ppb	5,852,840 cps	
58Ni (KED)	2.235 ppb	42,004 cps	
59Co (KED)	0.179 ppb	5,491 cps	
63Cu (KED)	2.211 ppb	49,317 cps	
64Zn (KED)	54.053 ppb	304,410 cps	
69Ga (KED)	1.706 ppb	11,992 cps	
75As (KED)	0.251 ppb	413 cps	
80Se (KED)	0.242 ppb	1,460 cps	
85Rb (KED)	0.824 ppb	5,098 cps	
88Sr (KED)	4.323 ppb	37,162 cps	
89Y (KED)	99.405 %	463,297 cps	
107Ag (KED)	0.013 ppb	740 cps	
114Cd (KED)	0.012 ppb	267 cps	
115In (KED)	96.193 %	798,251 cps	
133Cs (KED)	0.078 ppb	2,290 cps	
138Ba (KED)	5.337 ppb	223,844 cps	
139La (KED)	0.276 ppb	25,393 cps	
140Ce (KED)	0.572 ppb	70,308 cps	
141Pr (KED)	0.063 ppb	7,826 cps	
142Nd (KED)	0.338 ppb	16,865 cps	
152Sm (KED)	0.049 ppb	2,147 cps	
153Eu (KED)	0.009 ppb	797 cps	
158Gd (KED)	0.042 ppb	2,520 cps	
159Tb (KED)	98.558 %	4,248,061 cps	
164Dy (KED)	0.028 ppb	1,833 cps	
166Er (KED)	0.014 ppb	1,397 cps	
169Tm (KED)	0.002 ppb	573 cps	
174Yb (KED)	0.013 ppb	1,230 cps	
175Lu (KED)	-0.023 ppb	14,418 cps	
205Tl (KED)	0.006 ppb	1,020 cps	
208Pb (KED)	0.647 ppb	83,788 cps	
209Bi (KED)	94.042 %	3,319,444 cps	
232Th (KED)	0.092 ppb	23,188 cps	
238U (KED)	0.028 ppb	7,956 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 36

Analysis name: 278 jian

Analysis started at: 11/4/2021 4:32:45 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	115.308 %	
9Be (KED)	0.011 ppb	
11B (KED)	-4.957 ppb	
24Mg (KED)	395.167 ppb	
27Al (KED)	413.254 ppb	
45Sc (KED)	112.147 %	
51V (KED)	0.891 ppb	
52Cr (KED)	1.261 ppb	
55Mn (KED)	13.713 ppb	
56Fe (KED)	580.101 ppb	
58Ni (KED)	2.844 ppb	
59Co (KED)	0.253 ppb	
63Cu (KED)	2.683 ppb	
64Zn (KED)	58.820 ppb	
69Ga (KED)	1.461 ppb	
75As (KED)	0.302 ppb	
80Se (KED)	-0.016 ppb	
85Rb (KED)	0.909 ppb	
88Sr (KED)	5.158 ppb	
89Y (KED)	103.447 %	
107Ag (KED)	0.008 ppb	
114Cd (KED)	0.019 ppb	
115In (KED)	99.042 %	
133Cs (KED)	0.103 ppb	
138Ba (KED)	4.400 ppb	
139La (KED)	0.462 ppb	
140Ce (KED)	0.901 ppb	
141Pr (KED)	0.100 ppb	
142Nd (KED)	0.567 ppb	
152Sm (KED)	0.082 ppb	
153Eu (KED)	0.014 ppb	
158Gd (KED)	0.065 ppb	
159Tb (KED)	103.624 %	
164Dy (KED)	0.046 ppb	
166Er (KED)	0.024 ppb	
169Tm (KED)	0.003 ppb	
174Yb (KED)	0.022 ppb	
175Lu (KED)	-0.022 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.630 ppb	
209Bi (KED)	93.580 %	
232Th (KED)	0.144 ppb	
238U (KED)	0.045 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	115.308 %	3,407 cps	
9Be (KED)	0.011 ppb	3 cps	
11B (KED)	-4.957 ppb	507 cps	
24Mg (KED)	395.167 ppb	272,041 cps	
27Al (KED)	413.254 ppb	67,613 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	112.147 %	60,587 cps	
51V (KED)	0.891 ppb	9,767 cps	
52Cr (KED)	1.261 ppb	21,809 cps	
55Mn (KED)	13.713 ppb	112,351 cps	
56Fe (KED)	580.101 ppb	8,796,875 cps	
58Ni (KED)	2.844 ppb	56,769 cps	
59Co (KED)	0.253 ppb	8,229 cps	
63Cu (KED)	2.683 ppb	62,151 cps	
64Zn (KED)	58.820 ppb	344,389 cps	
69Ga (KED)	1.461 ppb	10,701 cps	
75As (KED)	0.302 ppb	517 cps	
80Se (KED)	-0.016 ppb	1,393 cps	
85Rb (KED)	0.909 ppb	5,845 cps	
88Sr (KED)	5.158 ppb	46,118 cps	
89Y (KED)	103.447 %	482,136 cps	
107Ag (KED)	0.008 ppb	450 cps	
114Cd (KED)	0.019 ppb	410 cps	
115In (KED)	99.042 %	821,894 cps	
133Cs (KED)	0.103 ppb	3,084 cps	
138Ba (KED)	4.400 ppb	194,271 cps	
139La (KED)	0.462 ppb	44,650 cps	
140Ce (KED)	0.901 ppb	116,313 cps	
141Pr (KED)	0.100 ppb	13,060 cps	
142Nd (KED)	0.567 ppb	29,749 cps	
152Sm (KED)	0.082 ppb	3,724 cps	
153Eu (KED)	0.014 ppb	1,330 cps	
158Gd (KED)	0.065 ppb	4,094 cps	
159Tb (KED)	103.624 %	4,466,430 cps	
164Dy (KED)	0.046 ppb	3,180 cps	
166Er (KED)	0.024 ppb	2,230 cps	
169Tm (KED)	0.003 ppb	930 cps	
174Yb (KED)	0.022 ppb	2,070 cps	
175Lu (KED)	-0.022 ppb	15,319 cps	
205Tl (KED)	0.006 ppb	1,123 cps	
208Pb (KED)	0.630 ppb	81,248 cps	
209Bi (KED)	93.580 %	3,303,125 cps	
232Th (KED)	0.144 ppb	35,895 cps	
238U (KED)	0.045 ppb	12,483 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 37

Analysis name: 16005 jian

Analysis started at: 11/4/2021 4:34:35 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.717 %	
9Be (KED)	0.012 ppb	
11B (KED)	36.755 ppb	
24Mg (KED)	188.940 ppb	
27Al (KED)	152.769 ppb	
45Sc (KED)	106.580 %	
51V (KED)	0.318 ppb	
52Cr (KED)	0.477 ppb	
55Mn (KED)	5.230 ppb	
56Fe (KED)	178.720 ppb	
58Ni (KED)	0.990 ppb	
59Co (KED)	0.096 ppb	
63Cu (KED)	1.390 ppb	
64Zn (KED)	54.827 ppb	
69Ga (KED)	0.525 ppb	
75As (KED)	0.481 ppb	
80Se (KED)	0.326 ppb	
85Rb (KED)	0.386 ppb	
88Sr (KED)	2.448 ppb	
89Y (KED)	99.445 %	
107Ag (KED)	0.006 ppb	
114Cd (KED)	0.009 ppb	
115In (KED)	98.411 %	
133Cs (KED)	0.031 ppb	
138Ba (KED)	1.574 ppb	
139La (KED)	0.139 ppb	
140Ce (KED)	0.284 ppb	
141Pr (KED)	0.032 ppb	
142Nd (KED)	0.177 ppb	
152Sm (KED)	0.025 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.022 ppb	
159Tb (KED)	100.230 %	
164Dy (KED)	0.015 ppb	
166Er (KED)	0.006 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.021 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.345 ppb	
209Bi (KED)	93.132 %	
232Th (KED)	0.046 ppb	
238U (KED)	0.020 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.717 %	3,124 cps	
9Be (KED)	0.012 ppb	3 cps	
11B (KED)	36.755 ppb	4,014 cps	
24Mg (KED)	188.940 ppb	119,358 cps	
27Al (KED)	152.769 ppb	23,826 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.580 %	57,579 cps	
51V (KED)	0.318 ppb	3,314 cps	
52Cr (KED)	0.477 ppb	7,899 cps	
55Mn (KED)	5.230 ppb	40,763 cps	
56Fe (KED)	178.720 ppb	2,577,276 cps	
58Ni (KED)	0.990 ppb	19,014 cps	
59Co (KED)	0.096 ppb	3,000 cps	
63Cu (KED)	1.390 ppb	31,226 cps	
64Zn (KED)	54.827 ppb	308,841 cps	
69Ga (KED)	0.525 ppb	3,751 cps	
75As (KED)	0.481 ppb	783 cps	
80Se (KED)	0.326 ppb	1,500 cps	
85Rb (KED)	0.386 ppb	2,437 cps	
88Sr (KED)	2.448 ppb	21,101 cps	
89Y (KED)	99.445 %	463,484 cps	
107Ag (KED)	0.006 ppb	340 cps	
114Cd (KED)	0.009 ppb	210 cps	
115In (KED)	98.411 %	816,663 cps	
133Cs (KED)	0.031 ppb	940 cps	
138Ba (KED)	1.574 ppb	68,179 cps	
139La (KED)	0.139 ppb	13,050 cps	
140Ce (KED)	0.284 ppb	35,664 cps	
141Pr (KED)	0.032 ppb	4,054 cps	
142Nd (KED)	0.177 ppb	9,030 cps	
152Sm (KED)	0.025 ppb	1,117 cps	
153Eu (KED)	0.004 ppb	400 cps	
158Gd (KED)	0.022 ppb	1,353 cps	
159Tb (KED)	100.230 %	4,320,167 cps	
164Dy (KED)	0.015 ppb	1,027 cps	
166Er (KED)	0.006 ppb	783 cps	
169Tm (KED)	0.001 ppb	217 cps	
174Yb (KED)	0.006 ppb	563 cps	
175Lu (KED)	-0.021 ppb	14,919 cps	
205Tl (KED)	0.003 ppb	520 cps	
208Pb (KED)	0.345 ppb	46,112 cps	
209Bi (KED)	93.132 %	3,287,323 cps	
232Th (KED)	0.046 ppb	11,532 cps	
238U (KED)	0.020 ppb	5,451 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 38

Analysis name: 16092jian

Analysis started at: 11/4/2021 4:36:20 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	113.164 %	
9Be (KED)	0.011 ppb	
11B (KED)	0.233 ppb	
24Mg (KED)	204.940 ppb	
27Al (KED)	177.053 ppb	
45Sc (KED)	106.884 %	
51V (KED)	0.357 ppb	
52Cr (KED)	0.699 ppb	
55Mn (KED)	5.370 ppb	
56Fe (KED)	209.610 ppb	
58Ni (KED)	1.102 ppb	
59Co (KED)	0.096 ppb	
63Cu (KED)	2.972 ppb	
64Zn (KED)	53.366 ppb	
69Ga (KED)	0.684 ppb	
75As (KED)	0.193 ppb	
80Se (KED)	-0.145 ppb	
85Rb (KED)	0.521 ppb	
88Sr (KED)	2.919 ppb	
89Y (KED)	103.146 %	
107Ag (KED)	0.007 ppb	
114Cd (KED)	0.005 ppb	
115In (KED)	98.322 %	
133Cs (KED)	0.040 ppb	
138Ba (KED)	2.320 ppb	
139La (KED)	0.171 ppb	
140Ce (KED)	0.333 ppb	
141Pr (KED)	0.039 ppb	
142Nd (KED)	0.212 ppb	
152Sm (KED)	0.029 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.025 ppb	
159Tb (KED)	96.535 %	
164Dy (KED)	0.020 ppb	
166Er (KED)	0.007 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.017 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.348 ppb	
209Bi (KED)	95.151 %	
232Th (KED)	0.053 ppb	
238U (KED)	0.023 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	113.164 %	3,344 cps	
9Be (KED)	0.011 ppb	3 cps	
11B (KED)	0.233 ppb	970 cps	
24Mg (KED)	204.940 ppb	138,568 cps	
27Al (KED)	177.053 ppb	27,674 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.884 %	57,743 cps	
51V (KED)	0.357 ppb	3,731 cps	
52Cr (KED)	0.699 ppb	11,572 cps	
55Mn (KED)	5.370 ppb	41,971 cps	
56Fe (KED)	209.610 ppb	3,030,947 cps	
58Ni (KED)	1.102 ppb	21,191 cps	
59Co (KED)	0.096 ppb	3,014 cps	
63Cu (KED)	2.972 ppb	68,588 cps	
64Zn (KED)	53.366 ppb	311,900 cps	
69Ga (KED)	0.684 ppb	5,041 cps	
75As (KED)	0.193 ppb	333 cps	
80Se (KED)	-0.145 ppb	1,327 cps	
85Rb (KED)	0.521 ppb	3,380 cps	
88Sr (KED)	2.919 ppb	26,074 cps	
89Y (KED)	103.146 %	480,733 cps	
107Ag (KED)	0.007 ppb	420 cps	
114Cd (KED)	0.005 ppb	137 cps	
115In (KED)	98.322 %	815,921 cps	
133Cs (KED)	0.040 ppb	1,207 cps	
138Ba (KED)	2.320 ppb	96,107 cps	
139La (KED)	0.171 ppb	15,400 cps	
140Ce (KED)	0.333 ppb	40,249 cps	
141Pr (KED)	0.039 ppb	4,758 cps	
142Nd (KED)	0.212 ppb	10,398 cps	
152Sm (KED)	0.029 ppb	1,253 cps	
153Eu (KED)	0.005 ppb	443 cps	
158Gd (KED)	0.025 ppb	1,480 cps	
159Tb (KED)	96.535 %	4,160,902 cps	
164Dy (KED)	0.020 ppb	1,270 cps	
166Er (KED)	0.007 ppb	820 cps	
169Tm (KED)	0.001 ppb	280 cps	
174Yb (KED)	0.006 ppb	587 cps	
175Lu (KED)	-0.017 ppb	14,952 cps	
205Tl (KED)	0.003 ppb	570 cps	
208Pb (KED)	0.348 ppb	47,434 cps	
209Bi (KED)	95.151 %	3,358,589 cps	
232Th (KED)	0.053 ppb	13,434 cps	
238U (KED)	0.023 ppb	6,515 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 39

Analysis name: 262jian

Analysis started at: 11/4/2021 4:38:06 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.487 %	
9Be (KED)	0.011 ppb	
11B (KED)	12.668 ppb	
24Mg (KED)	319.352 ppb	
27Al (KED)	338.268 ppb	
45Sc (KED)	106.152 %	
51V (KED)	0.668 ppb	
52Cr (KED)	0.854 ppb	
55Mn (KED)	10.556 ppb	
56Fe (KED)	373.180 ppb	
58Ni (KED)	1.880 ppb	
59Co (KED)	0.156 ppb	
63Cu (KED)	2.889 ppb	
64Zn (KED)	57.146 ppb	
69Ga (KED)	1.387 ppb	
75As (KED)	0.205 ppb	
80Se (KED)	0.260 ppb	
85Rb (KED)	0.887 ppb	
88Sr (KED)	5.630 ppb	
89Y (KED)	100.203 %	
107Ag (KED)	0.008 ppb	
114Cd (KED)	0.016 ppb	
115In (KED)	98.252 %	
133Cs (KED)	0.069 ppb	
138Ba (KED)	4.300 ppb	
139La (KED)	0.299 ppb	
140Ce (KED)	0.586 ppb	
141Pr (KED)	0.066 ppb	
142Nd (KED)	0.365 ppb	
152Sm (KED)	0.051 ppb	
153Eu (KED)	0.010 ppb	
158Gd (KED)	0.043 ppb	
159Tb (KED)	100.012 %	
164Dy (KED)	0.036 ppb	
166Er (KED)	0.013 ppb	
169Tm (KED)	0.003 ppb	
174Yb (KED)	0.014 ppb	
175Lu (KED)	-0.022 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.539 ppb	
209Bi (KED)	94.165 %	
232Th (KED)	0.090 ppb	
238U (KED)	0.031 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.487 %	3,324 cps	
9Be (KED)	0.011 ppb	3 cps	
11B (KED)	12.668 ppb	2,090 cps	
24Mg (KED)	319.352 ppb	214,512 cps	
27Al (KED)	338.268 ppb	52,407 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.152 %	57,348 cps	
51V (KED)	0.668 ppb	6,932 cps	
52Cr (KED)	0.854 ppb	14,015 cps	
55Mn (KED)	10.556 ppb	81,878 cps	
56Fe (KED)	373.180 ppb	5,357,398 cps	
58Ni (KED)	1.880 ppb	35,647 cps	
59Co (KED)	0.156 ppb	4,808 cps	
63Cu (KED)	2.889 ppb	64,781 cps	
64Zn (KED)	57.146 ppb	324,196 cps	
69Ga (KED)	1.387 ppb	9,844 cps	
75As (KED)	0.205 ppb	343 cps	
80Se (KED)	0.260 ppb	1,480 cps	
85Rb (KED)	0.887 ppb	5,528 cps	
88Sr (KED)	5.630 ppb	48,745 cps	
89Y (KED)	100.203 %	467,015 cps	
107Ag (KED)	0.008 ppb	447 cps	
114Cd (KED)	0.016 ppb	347 cps	
115In (KED)	98.252 %	815,336 cps	
133Cs (KED)	0.069 ppb	2,077 cps	
138Ba (KED)	4.300 ppb	183,300 cps	
139La (KED)	0.299 ppb	27,864 cps	
140Ce (KED)	0.586 ppb	73,098 cps	
141Pr (KED)	0.066 ppb	8,363 cps	
142Nd (KED)	0.365 ppb	18,490 cps	
152Sm (KED)	0.051 ppb	2,240 cps	
153Eu (KED)	0.010 ppb	910 cps	
158Gd (KED)	0.043 ppb	2,594 cps	
159Tb (KED)	100.012 %	4,310,760 cps	
164Dy (KED)	0.036 ppb	2,414 cps	
166Er (KED)	0.013 ppb	1,347 cps	
169Tm (KED)	0.003 ppb	673 cps	
174Yb (KED)	0.014 ppb	1,263 cps	
175Lu (KED)	-0.022 ppb	14,772 cps	
205Tl (KED)	0.006 ppb	1,110 cps	
208Pb (KED)	0.539 ppb	70,603 cps	
209Bi (KED)	94.165 %	3,323,785 cps	
232Th (KED)	0.090 ppb	22,627 cps	
238U (KED)	0.031 ppb	8,656 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 40

Analysis name: 17080jian

Analysis started at: 11/4/2021 4:39:53 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	111.021 %	
9Be (KED)	-0.007 ppb	
11B (KED)	19.204 ppb	
24Mg (KED)	244.897 ppb	
27Al (KED)	265.159 ppb	
45Sc (KED)	103.543 %	
51V (KED)	0.538 ppb	
52Cr (KED)	1.169 ppb	
55Mn (KED)	7.986 ppb	
56Fe (KED)	328.046 ppb	
58Ni (KED)	1.520 ppb	
59Co (KED)	0.149 ppb	
63Cu (KED)	2.470 ppb	
64Zn (KED)	58.429 ppb	
69Ga (KED)	0.942 ppb	
75As (KED)	0.211 ppb	
80Se (KED)	0.338 ppb	
85Rb (KED)	0.824 ppb	
88Sr (KED)	3.753 ppb	
89Y (KED)	99.522 %	
107Ag (KED)	0.010 ppb	
114Cd (KED)	0.011 ppb	
115In (KED)	96.793 %	
133Cs (KED)	0.060 ppb	
138Ba (KED)	2.943 ppb	
139La (KED)	0.241 ppb	
140Ce (KED)	0.524 ppb	
141Pr (KED)	0.057 ppb	
142Nd (KED)	0.315 ppb	
152Sm (KED)	0.041 ppb	
153Eu (KED)	0.008 ppb	
158Gd (KED)	0.034 ppb	
159Tb (KED)	97.610 %	
164Dy (KED)	0.026 ppb	
166Er (KED)	0.012 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.010 ppb	
175Lu (KED)	-0.022 ppb	
205Tl (KED)	0.005 ppb	
208Pb (KED)	0.427 ppb	
209Bi (KED)	92.990 %	
232Th (KED)	0.075 ppb	
238U (KED)	0.028 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	111.021 %	3,280 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	19.204 ppb	2,647 cps	
24Mg (KED)	244.897 ppb	162,405 cps	
27Al (KED)	265.159 ppb	40,094 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.543 %	55,939 cps	
51V (KED)	0.538 ppb	5,445 cps	
52Cr (KED)	1.169 ppb	18,677 cps	
55Mn (KED)	7.986 ppb	60,433 cps	
56Fe (KED)	328.046 ppb	4,593,971 cps	
58Ni (KED)	1.520 ppb	28,175 cps	
59Co (KED)	0.149 ppb	4,504 cps	
63Cu (KED)	2.470 ppb	55,095 cps	
64Zn (KED)	58.429 ppb	329,141 cps	
69Ga (KED)	0.942 ppb	6,665 cps	
75As (KED)	0.211 ppb	350 cps	
80Se (KED)	0.338 ppb	1,507 cps	
85Rb (KED)	0.824 ppb	5,104 cps	
88Sr (KED)	3.753 ppb	32,315 cps	
89Y (KED)	99.522 %	463,841 cps	
107Ag (KED)	0.010 ppb	553 cps	
114Cd (KED)	0.011 ppb	240 cps	
115In (KED)	96.793 %	803,233 cps	
133Cs (KED)	0.060 ppb	1,777 cps	
138Ba (KED)	2.943 ppb	122,884 cps	
139La (KED)	0.241 ppb	21,969 cps	
140Ce (KED)	0.524 ppb	63,873 cps	
141Pr (KED)	0.057 ppb	7,012 cps	
142Nd (KED)	0.315 ppb	15,580 cps	
152Sm (KED)	0.041 ppb	1,757 cps	
153Eu (KED)	0.008 ppb	697 cps	
158Gd (KED)	0.034 ppb	2,034 cps	
159Tb (KED)	97.610 %	4,207,225 cps	
164Dy (KED)	0.026 ppb	1,730 cps	
166Er (KED)	0.012 ppb	1,200 cps	
169Tm (KED)	0.002 ppb	523 cps	
174Yb (KED)	0.010 ppb	923 cps	
175Lu (KED)	-0.022 ppb	14,298 cps	
205Tl (KED)	0.005 ppb	827 cps	
208Pb (KED)	0.427 ppb	55,992 cps	
209Bi (KED)	92.990 %	3,282,310 cps	
232Th (KED)	0.075 ppb	18,667 cps	
238U (KED)	0.028 ppb	7,672 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 41

Analysis name: 280jian

Analysis started at: 11/4/2021 4:41:38 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	113.503 %	
9Be (KED)	0.011 ppb	
11B (KED)	1.113 ppb	
24Mg (KED)	317.351 ppb	
27Al (KED)	319.728 ppb	
45Sc (KED)	107.280 %	
51V (KED)	0.698 ppb	
52Cr (KED)	1.056 ppb	
55Mn (KED)	9.594 ppb	
56Fe (KED)	427.189 ppb	
58Ni (KED)	2.015 ppb	
59Co (KED)	0.176 ppb	
63Cu (KED)	2.164 ppb	
64Zn (KED)	53.787 ppb	
69Ga (KED)	1.100 ppb	
75As (KED)	0.237 ppb	
80Se (KED)	0.454 ppb	
85Rb (KED)	0.796 ppb	
88Sr (KED)	4.301 ppb	
89Y (KED)	102.424 %	
107Ag (KED)	0.007 ppb	
114Cd (KED)	0.008 ppb	
115In (KED)	100.628 %	
133Cs (KED)	0.068 ppb	
138Ba (KED)	3.296 ppb	
139La (KED)	0.339 ppb	
140Ce (KED)	0.703 ppb	
141Pr (KED)	0.081 ppb	
142Nd (KED)	0.425 ppb	
152Sm (KED)	0.059 ppb	
153Eu (KED)	0.010 ppb	
158Gd (KED)	0.050 ppb	
159Tb (KED)	100.376 %	
164Dy (KED)	0.033 ppb	
166Er (KED)	0.014 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.013 ppb	
175Lu (KED)	-0.019 ppb	
205Tl (KED)	0.005 ppb	
208Pb (KED)	0.506 ppb	
209Bi (KED)	93.682 %	
232Th (KED)	0.108 ppb	
238U (KED)	0.033 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	113.503 %	3,354 cps	
9Be (KED)	0.011 ppb	3 cps	
11B (KED)	1.113 ppb	1,053 cps	
24Mg (KED)	317.351 ppb	215,094 cps	
27Al (KED)	319.728 ppb	50,067 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	107.280 %	57,958 cps	
51V (KED)	0.698 ppb	7,322 cps	
52Cr (KED)	1.056 ppb	17,486 cps	
55Mn (KED)	9.594 ppb	75,212 cps	
56Fe (KED)	427.189 ppb	6,197,561 cps	
58Ni (KED)	2.015 ppb	38,576 cps	
59Co (KED)	0.176 ppb	5,508 cps	
63Cu (KED)	2.164 ppb	49,742 cps	
64Zn (KED)	53.787 ppb	312,129 cps	
69Ga (KED)	1.100 ppb	7,996 cps	
75As (KED)	0.237 ppb	403 cps	
80Se (KED)	0.454 ppb	1,607 cps	
85Rb (KED)	0.796 ppb	5,078 cps	
88Sr (KED)	4.301 ppb	38,095 cps	
89Y (KED)	102.424 %	477,369 cps	
107Ag (KED)	0.007 ppb	410 cps	
114Cd (KED)	0.008 ppb	203 cps	
115In (KED)	100.628 %	835,057 cps	
133Cs (KED)	0.068 ppb	2,074 cps	
138Ba (KED)	3.296 ppb	141,344 cps	
139La (KED)	0.339 ppb	31,707 cps	
140Ce (KED)	0.703 ppb	87,946 cps	
141Pr (KED)	0.081 ppb	10,238 cps	
142Nd (KED)	0.425 ppb	21,599 cps	
152Sm (KED)	0.059 ppb	2,600 cps	
153Eu (KED)	0.010 ppb	910 cps	
158Gd (KED)	0.050 ppb	3,017 cps	
159Tb (KED)	100.376 %	4,326,422 cps	
164Dy (KED)	0.033 ppb	2,194 cps	
166Er (KED)	0.014 ppb	1,417 cps	
169Tm (KED)	0.002 ppb	593 cps	
174Yb (KED)	0.013 ppb	1,197 cps	
175Lu (KED)	-0.019 ppb	15,253 cps	
205Tl (KED)	0.005 ppb	840 cps	
208Pb (KED)	0.506 ppb	66,162 cps	
209Bi (KED)	93.682 %	3,306,718 cps	
232Th (KED)	0.108 ppb	26,973 cps	
238U (KED)	0.033 ppb	9,160 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 42

Analysis name: 18074jian

Analysis started at: 11/4/2021 4:43:23 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.266 %	
9Be (KED)	-0.007 ppb	
11B (KED)	4.888 ppb	
24Mg (KED)	251.346 ppb	
27Al (KED)	212.612 ppb	
45Sc (KED)	105.104 %	
51V (KED)	0.433 ppb	
52Cr (KED)	0.863 ppb	
55Mn (KED)	6.714 ppb	
56Fe (KED)	250.758 ppb	
58Ni (KED)	1.280 ppb	
59Co (KED)	0.121 ppb	
63Cu (KED)	2.880 ppb	
64Zn (KED)	54.140 ppb	
69Ga (KED)	0.759 ppb	
75As (KED)	0.173 ppb	
80Se (KED)	0.357 ppb	
85Rb (KED)	0.546 ppb	
88Sr (KED)	3.418 ppb	
89Y (KED)	100.899 %	
107Ag (KED)	0.024 ppb	
114Cd (KED)	0.008 ppb	
115In (KED)	97.246 %	
133Cs (KED)	0.046 ppb	
138Ba (KED)	2.289 ppb	
139La (KED)	0.172 ppb	
140Ce (KED)	0.349 ppb	
141Pr (KED)	0.041 ppb	
142Nd (KED)	0.232 ppb	
152Sm (KED)	0.034 ppb	
153Eu (KED)	0.007 ppb	
158Gd (KED)	0.026 ppb	
159Tb (KED)	102.135 %	
164Dy (KED)	0.018 ppb	
166Er (KED)	0.008 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.007 ppb	
175Lu (KED)	-0.023 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.502 ppb	
209Bi (KED)	93.615 %	
232Th (KED)	0.057 ppb	
238U (KED)	0.027 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.266 %	3,110 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	4.888 ppb	1,297 cps	
24Mg (KED)	251.346 ppb	158,037 cps	
27Al (KED)	212.612 ppb	32,656 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.104 %	56,782 cps	
51V (KED)	0.433 ppb	4,447 cps	
52Cr (KED)	0.863 ppb	14,028 cps	
55Mn (KED)	6.714 ppb	51,590 cps	
56Fe (KED)	250.758 ppb	3,565,124 cps	
58Ni (KED)	1.280 ppb	24,150 cps	
59Co (KED)	0.121 ppb	3,697 cps	
63Cu (KED)	2.880 ppb	65,049 cps	
64Zn (KED)	54.140 ppb	309,474 cps	
69Ga (KED)	0.759 ppb	5,465 cps	
75As (KED)	0.173 ppb	293 cps	
80Se (KED)	0.357 ppb	1,537 cps	
85Rb (KED)	0.546 ppb	3,460 cps	
88Sr (KED)	3.418 ppb	29,849 cps	
89Y (KED)	100.899 %	470,260 cps	
107Ag (KED)	0.024 ppb	1,370 cps	
114Cd (KED)	0.008 ppb	187 cps	
115In (KED)	97.246 %	806,992 cps	
133Cs (KED)	0.046 ppb	1,377 cps	
138Ba (KED)	2.289 ppb	100,332 cps	
139La (KED)	0.172 ppb	16,438 cps	
140Ce (KED)	0.349 ppb	44,597 cps	
141Pr (KED)	0.041 ppb	5,254 cps	
142Nd (KED)	0.232 ppb	12,036 cps	
152Sm (KED)	0.034 ppb	1,547 cps	
153Eu (KED)	0.007 ppb	607 cps	
158Gd (KED)	0.026 ppb	1,620 cps	
159Tb (KED)	102.135 %	4,402,260 cps	
164Dy (KED)	0.018 ppb	1,253 cps	
166Er (KED)	0.008 ppb	950 cps	
169Tm (KED)	0.002 ppb	423 cps	
174Yb (KED)	0.007 ppb	707 cps	
175Lu (KED)	-0.023 ppb	14,812 cps	
205Tl (KED)	0.003 ppb	553 cps	
208Pb (KED)	0.502 ppb	65,556 cps	
209Bi (KED)	93.615 %	3,304,383 cps	
232Th (KED)	0.057 ppb	14,308 cps	
238U (KED)	0.027 ppb	7,569 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 43

Analysis name: 276jian

Analysis started at: 11/4/2021 4:45:10 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	111.810 %	
9Be (KED)	0.011 ppb	
11B (KED)	2.510 ppb	
24Mg (KED)	192.459 ppb	
27Al (KED)	151.799 ppb	
45Sc (KED)	106.821 %	
51V (KED)	0.321 ppb	
52Cr (KED)	1.333 ppb	
55Mn (KED)	4.977 ppb	
56Fe (KED)	190.415 ppb	
58Ni (KED)	1.154 ppb	
59Co (KED)	0.093 ppb	
63Cu (KED)	5.159 ppb	
64Zn (KED)	76.652 ppb	
69Ga (KED)	0.667 ppb	
75As (KED)	0.161 ppb	
80Se (KED)	0.187 ppb	
85Rb (KED)	0.697 ppb	
88Sr (KED)	2.992 ppb	
89Y (KED)	99.813 %	
107Ag (KED)	0.014 ppb	
114Cd (KED)	0.010 ppb	
115In (KED)	96.582 %	
133Cs (KED)	0.035 ppb	
138Ba (KED)	2.182 ppb	
139La (KED)	0.132 ppb	
140Ce (KED)	0.269 ppb	
141Pr (KED)	0.031 ppb	
142Nd (KED)	0.175 ppb	
152Sm (KED)	0.024 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.020 ppb	
159Tb (KED)	99.095 %	
164Dy (KED)	0.015 ppb	
166Er (KED)	0.005 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.016 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.703 ppb	
209Bi (KED)	93.821 %	
232Th (KED)	0.043 ppb	
238U (KED)	0.021 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	111.810 %	3,304 cps	
9Be (KED)	0.011 ppb	3 cps	
11B (KED)	2.510 ppb	1,163 cps	
24Mg (KED)	192.459 ppb	128,586 cps	
27Al (KED)	151.799 ppb	23,729 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.821 %	57,710 cps	
51V (KED)	0.321 ppb	3,357 cps	
52Cr (KED)	1.333 ppb	21,963 cps	
55Mn (KED)	4.977 ppb	38,887 cps	
56Fe (KED)	190.415 ppb	2,751,998 cps	
58Ni (KED)	1.154 ppb	22,153 cps	
59Co (KED)	0.093 ppb	2,917 cps	
63Cu (KED)	5.159 ppb	114,825 cps	
64Zn (KED)	76.652 ppb	431,908 cps	
69Ga (KED)	0.667 ppb	4,761 cps	
75As (KED)	0.161 ppb	270 cps	
80Se (KED)	0.187 ppb	1,440 cps	
85Rb (KED)	0.697 ppb	4,344 cps	
88Sr (KED)	2.992 ppb	25,867 cps	
89Y (KED)	99.813 %	465,200 cps	
107Ag (KED)	0.014 ppb	773 cps	
114Cd (KED)	0.010 ppb	217 cps	
115In (KED)	96.582 %	801,481 cps	
133Cs (KED)	0.035 ppb	1,033 cps	
138Ba (KED)	2.182 ppb	92,879 cps	
139La (KED)	0.132 ppb	12,206 cps	
140Ce (KED)	0.269 ppb	33,395 cps	
141Pr (KED)	0.031 ppb	3,894 cps	
142Nd (KED)	0.175 ppb	8,796 cps	
152Sm (KED)	0.024 ppb	1,060 cps	
153Eu (KED)	0.005 ppb	440 cps	
158Gd (KED)	0.020 ppb	1,183 cps	
159Tb (KED)	99.095 %	4,271,238 cps	
164Dy (KED)	0.015 ppb	1,020 cps	
166Er (KED)	0.005 ppb	703 cps	
169Tm (KED)	0.001 ppb	287 cps	
174Yb (KED)	0.006 ppb	577 cps	
175Lu (KED)	-0.016 ppb	15,476 cps	
205Tl (KED)	0.004 ppb	690 cps	
208Pb (KED)	0.703 ppb	90,481 cps	
209Bi (KED)	93.821 %	3,311,634 cps	
232Th (KED)	0.043 ppb	10,771 cps	
238U (KED)	0.021 ppb	5,758 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 44

Analysis name: 001152921177301jian

Analysis started at: 11/4/2021 4:46:55 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	47.947 %	
9Be (KED)	0.163 ppb	
11B (KED)	22.233 ppb	
24Mg (KED)	544.479 ppb	
27Al (KED)	615.253 ppb	
45Sc (KED)	42.131 %	
51V (KED)	1.277 ppb	
52Cr (KED)	1.836 ppb	
55Mn (KED)	18.641 ppb	
56Fe (KED)	752.348 ppb	
58Ni (KED)	3.514 ppb	
59Co (KED)	0.291 ppb	
63Cu (KED)	6.463 ppb	
64Zn (KED)	113.612 ppb	
69Ga (KED)	2.226 ppb	
75As (KED)	0.521 ppb	
80Se (KED)	5.501 ppb	
85Rb (KED)	1.349 ppb	
88Sr (KED)	8.234 ppb	
89Y (KED)	40.260 %	
107Ag (KED)	0.065 ppb	
114Cd (KED)	0.021 ppb	
115In (KED)	38.052 %	
133Cs (KED)	0.134 ppb	
138Ba (KED)	7.321 ppb	
139La (KED)	0.554 ppb	
140Ce (KED)	1.182 ppb	
141Pr (KED)	0.140 ppb	
142Nd (KED)	0.727 ppb	
152Sm (KED)	0.109 ppb	
153Eu (KED)	0.017 ppb	
158Gd (KED)	0.088 ppb	
159Tb (KED)	37.743 %	
164Dy (KED)	0.064 ppb	
166Er (KED)	0.036 ppb	
169Tm (KED)	0.004 ppb	
174Yb (KED)	0.028 ppb	
175Lu (KED)	-0.017 ppb	
205Tl (KED)	0.009 ppb	
208Pb (KED)	1.156 ppb	
209Bi (KED)	37.311 %	
232Th (KED)	0.198 ppb	
238U (KED)	0.060 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	47.947 %	1,417 cps	
9Be (KED)	0.163 ppb	13 cps	
11B (KED)	22.233 ppb	1,260 cps	
24Mg (KED)	544.479 ppb	155,826 cps	
27Al (KED)	615.253 ppb	37,794 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	42.131 %	22,761 cps	
51V (KED)	1.277 ppb	5,258 cps	
52Cr (KED)	1.836 ppb	11,916 cps	
55Mn (KED)	18.641 ppb	57,362 cps	
56Fe (KED)	752.348 ppb	4,285,744 cps	
58Ni (KED)	3.514 ppb	26,314 cps	
59Co (KED)	0.291 ppb	3,564 cps	
63Cu (KED)	6.463 ppb	57,964 cps	
64Zn (KED)	113.612 ppb	257,497 cps	
69Ga (KED)	2.226 ppb	6,325 cps	
75As (KED)	0.521 ppb	343 cps	
80Se (KED)	5.501 ppb	1,590 cps	
85Rb (KED)	1.349 ppb	3,360 cps	
88Sr (KED)	8.234 ppb	28,623 cps	
89Y (KED)	40.260 %	187,641 cps	
107Ag (KED)	0.065 ppb	1,430 cps	
114Cd (KED)	0.021 ppb	177 cps	
115In (KED)	38.052 %	315,773 cps	
133Cs (KED)	0.134 ppb	1,540 cps	
138Ba (KED)	7.321 ppb	117,376 cps	
139La (KED)	0.554 ppb	19,512 cps	
140Ce (KED)	1.182 ppb	55,537 cps	
141Pr (KED)	0.140 ppb	6,622 cps	
142Nd (KED)	0.727 ppb	13,888 cps	
152Sm (KED)	0.109 ppb	1,810 cps	
153Eu (KED)	0.017 ppb	580 cps	
158Gd (KED)	0.088 ppb	2,017 cps	
159Tb (KED)	37.743 %	1,626,803 cps	
164Dy (KED)	0.064 ppb	1,617 cps	
166Er (KED)	0.036 ppb	1,180 cps	
169Tm (KED)	0.004 ppb	377 cps	
174Yb (KED)	0.028 ppb	993 cps	
175Lu (KED)	-0.017 ppb	5,858 cps	
205Tl (KED)	0.009 ppb	650 cps	
208Pb (KED)	1.156 ppb	58,132 cps	
209Bi (KED)	37.311 %	1,316,983 cps	
232Th (KED)	0.198 ppb	19,656 cps	
238U (KED)	0.060 ppb	6,638 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 45

Analysis name: 274jian

Analysis started at: 11/4/2021 4:48:42 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	44.111 %	
9Be (KED)	-0.007 ppb	
11B (KED)	-2.436 ppb	
24Mg (KED)	324.796 ppb	
27Al (KED)	273.709 ppb	
45Sc (KED)	40.492 %	
51V (KED)	0.538 ppb	
52Cr (KED)	1.056 ppb	
55Mn (KED)	8.191 ppb	
56Fe (KED)	320.046 ppb	
58Ni (KED)	1.867 ppb	
59Co (KED)	0.170 ppb	
63Cu (KED)	3.441 ppb	
64Zn (KED)	113.923 ppb	
69Ga (KED)	1.034 ppb	
75As (KED)	0.319 ppb	
80Se (KED)	4.782 ppb	
85Rb (KED)	0.846 ppb	
88Sr (KED)	4.381 ppb	
89Y (KED)	39.239 %	
107Ag (KED)	0.021 ppb	
114Cd (KED)	0.015 ppb	
115In (KED)	37.599 %	
133Cs (KED)	0.062 ppb	
138Ba (KED)	3.277 ppb	
139La (KED)	0.245 ppb	
140Ce (KED)	0.502 ppb	
141Pr (KED)	0.059 ppb	
142Nd (KED)	0.330 ppb	
152Sm (KED)	0.046 ppb	
153Eu (KED)	0.007 ppb	
158Gd (KED)	0.037 ppb	
159Tb (KED)	36.459 %	
164Dy (KED)	0.026 ppb	
166Er (KED)	0.012 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.011 ppb	
175Lu (KED)	-0.012 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.537 ppb	
209Bi (KED)	37.425 %	
232Th (KED)	0.085 ppb	
238U (KED)	0.037 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	44.111 %	1,303 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	-2.436 ppb	283 cps	
24Mg (KED)	324.796 ppb	85,552 cps	
27Al (KED)	273.709 ppb	16,184 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	40.492 %	21,876 cps	
51V (KED)	0.538 ppb	2,130 cps	
52Cr (KED)	1.056 ppb	6,602 cps	
55Mn (KED)	8.191 ppb	24,240 cps	
56Fe (KED)	320.046 ppb	1,752,766 cps	
58Ni (KED)	1.867 ppb	13,501 cps	
59Co (KED)	0.170 ppb	2,003 cps	
63Cu (KED)	3.441 ppb	30,176 cps	
64Zn (KED)	113.923 ppb	251,648 cps	
69Ga (KED)	1.034 ppb	2,884 cps	
75As (KED)	0.319 ppb	207 cps	
80Se (KED)	4.782 ppb	1,417 cps	
85Rb (KED)	0.846 ppb	2,067 cps	
88Sr (KED)	4.381 ppb	14,866 cps	
89Y (KED)	39.239 %	182,881 cps	
107Ag (KED)	0.021 ppb	473 cps	
114Cd (KED)	0.015 ppb	130 cps	
115In (KED)	37.599 %	312,012 cps	
133Cs (KED)	0.062 ppb	707 cps	
138Ba (KED)	3.277 ppb	51,055 cps	
139La (KED)	0.245 ppb	8,329 cps	
140Ce (KED)	0.502 ppb	22,874 cps	
141Pr (KED)	0.059 ppb	2,697 cps	
142Nd (KED)	0.330 ppb	6,095 cps	
152Sm (KED)	0.046 ppb	747 cps	
153Eu (KED)	0.007 ppb	237 cps	
158Gd (KED)	0.037 ppb	813 cps	
159Tb (KED)	36.459 %	1,571,454 cps	
164Dy (KED)	0.026 ppb	630 cps	
166Er (KED)	0.012 ppb	443 cps	
169Tm (KED)	0.002 ppb	197 cps	
174Yb (KED)	0.011 ppb	383 cps	
175Lu (KED)	-0.012 ppb	5,935 cps	
205Tl (KED)	0.006 ppb	410 cps	
208Pb (KED)	0.537 ppb	27,931 cps	
209Bi (KED)	37.425 %	1,320,989 cps	
232Th (KED)	0.085 ppb	8,500 cps	
238U (KED)	0.037 ppb	4,071 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 46

Analysis name: 264jian

Analysis started at: 11/4/2021 4:50:29 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	43.547 %	
9Be (KED)	-0.007 ppb	
11B (KED)	-4.140 ppb	
24Mg (KED)	311.634 ppb	
27Al (KED)	321.690 ppb	
45Sc (KED)	42.273 %	
51V (KED)	0.671 ppb	
52Cr (KED)	0.788 ppb	
55Mn (KED)	9.604 ppb	
56Fe (KED)	385.976 ppb	
58Ni (KED)	2.604 ppb	
59Co (KED)	0.176 ppb	
63Cu (KED)	4.372 ppb	
64Zn (KED)	112.877 ppb	
69Ga (KED)	1.368 ppb	
75As (KED)	0.281 ppb	
80Se (KED)	4.553 ppb	
85Rb (KED)	1.529 ppb	
88Sr (KED)	4.082 ppb	
89Y (KED)	40.927 %	
107Ag (KED)	0.022 ppb	
114Cd (KED)	0.017 ppb	
115In (KED)	39.035 %	
133Cs (KED)	0.064 ppb	
138Ba (KED)	4.559 ppb	
139La (KED)	0.294 ppb	
140Ce (KED)	0.587 ppb	
141Pr (KED)	0.067 ppb	
142Nd (KED)	0.362 ppb	
152Sm (KED)	0.054 ppb	
153Eu (KED)	0.010 ppb	
158Gd (KED)	0.042 ppb	
159Tb (KED)	37.232 %	
164Dy (KED)	0.032 ppb	
166Er (KED)	0.016 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.017 ppb	
175Lu (KED)	-0.018 ppb	
205Tl (KED)	0.007 ppb	
208Pb (KED)	0.639 ppb	
209Bi (KED)	38.542 %	
232Th (KED)	0.090 ppb	
238U (KED)	0.029 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	43.547 %	1,287 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	-4.140 ppb	220 cps	
24Mg (KED)	311.634 ppb	81,039 cps	
27Al (KED)	321.690 ppb	19,849 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	42.273 %	22,838 cps	
51V (KED)	0.671 ppb	2,774 cps	
52Cr (KED)	0.788 ppb	5,154 cps	
55Mn (KED)	9.604 ppb	29,669 cps	
56Fe (KED)	385.976 ppb	2,206,573 cps	
58Ni (KED)	2.604 ppb	19,602 cps	
59Co (KED)	0.176 ppb	2,160 cps	
63Cu (KED)	4.372 ppb	39,930 cps	
64Zn (KED)	112.877 ppb	260,076 cps	
69Ga (KED)	1.368 ppb	3,967 cps	
75As (KED)	0.281 ppb	190 cps	
80Se (KED)	4.553 ppb	1,433 cps	
85Rb (KED)	1.529 ppb	3,867 cps	
88Sr (KED)	4.082 ppb	14,448 cps	
89Y (KED)	40.927 %	190,748 cps	
107Ag (KED)	0.022 ppb	513 cps	
114Cd (KED)	0.017 ppb	147 cps	
115In (KED)	39.035 %	323,930 cps	
133Cs (KED)	0.064 ppb	757 cps	
138Ba (KED)	4.559 ppb	72,306 cps	
139La (KED)	0.294 ppb	10,221 cps	
140Ce (KED)	0.587 ppb	27,276 cps	
141Pr (KED)	0.067 ppb	3,150 cps	
142Nd (KED)	0.362 ppb	6,835 cps	
152Sm (KED)	0.054 ppb	880 cps	
153Eu (KED)	0.010 ppb	337 cps	
158Gd (KED)	0.042 ppb	950 cps	
159Tb (KED)	37.232 %	1,604,772 cps	
164Dy (KED)	0.032 ppb	793 cps	
166Er (KED)	0.016 ppb	577 cps	
169Tm (KED)	0.002 ppb	213 cps	
174Yb (KED)	0.017 ppb	590 cps	
175Lu (KED)	-0.018 ppb	5,731 cps	
205Tl (KED)	0.007 ppb	513 cps	
208Pb (KED)	0.639 ppb	33,930 cps	
209Bi (KED)	38.542 %	1,360,429 cps	
232Th (KED)	0.090 ppb	9,217 cps	
238U (KED)	0.029 ppb	3,294 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 47

Analysis name: 17342jian

Analysis started at: 11/4/2021 4:52:17 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	80.893 %	
9Be (KED)	-0.007 ppb	
11B (KED)	-2.942 ppb	
24Mg (KED)	153.410 ppb	
27Al (KED)	209.554 ppb	
45Sc (KED)	76.710 %	
51V (KED)	0.463 ppb	
52Cr (KED)	0.933 ppb	
55Mn (KED)	5.631 ppb	
56Fe (KED)	231.814 ppb	
58Ni (KED)	1.187 ppb	
59Co (KED)	0.106 ppb	
63Cu (KED)	2.571 ppb	
64Zn (KED)	59.146 ppb	
69Ga (KED)	0.673 ppb	
75As (KED)	0.176 ppb	
80Se (KED)	1.923 ppb	
85Rb (KED)	0.642 ppb	
88Sr (KED)	2.268 ppb	
89Y (KED)	73.250 %	
107Ag (KED)	0.006 ppb	
114Cd (KED)	0.012 ppb	
115In (KED)	71.090 %	
133Cs (KED)	0.038 ppb	
138Ba (KED)	2.101 ppb	
139La (KED)	0.194 ppb	
140Ce (KED)	0.417 ppb	
141Pr (KED)	0.044 ppb	
142Nd (KED)	0.245 ppb	
152Sm (KED)	0.035 ppb	
153Eu (KED)	0.005 ppb	
158Gd (KED)	0.032 ppb	
159Tb (KED)	68.979 %	
164Dy (KED)	0.022 ppb	
166Er (KED)	0.009 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.009 ppb	
175Lu (KED)	-0.020 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.336 ppb	
209Bi (KED)	70.127 %	
232Th (KED)	0.061 ppb	
238U (KED)	0.016 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	80.893 %	2,390 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	-2.942 ppb	487 cps	
24Mg (KED)	153.410 ppb	74,186 cps	
27Al (KED)	209.554 ppb	23,492 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	76.710 %	41,442 cps	
51V (KED)	0.463 ppb	3,474 cps	
52Cr (KED)	0.933 ppb	11,055 cps	
55Mn (KED)	5.631 ppb	31,587 cps	
56Fe (KED)	231.814 ppb	2,405,530 cps	
58Ni (KED)	1.187 ppb	16,367 cps	
59Co (KED)	0.106 ppb	2,374 cps	
63Cu (KED)	2.571 ppb	42,188 cps	
64Zn (KED)	59.146 ppb	245,196 cps	
69Ga (KED)	0.673 ppb	3,524 cps	
75As (KED)	0.176 ppb	217 cps	
80Se (KED)	1.923 ppb	1,657 cps	
85Rb (KED)	0.642 ppb	2,940 cps	
88Sr (KED)	2.268 ppb	14,408 cps	
89Y (KED)	73.250 %	341,396 cps	
107Ag (KED)	0.006 ppb	270 cps	
114Cd (KED)	0.012 ppb	190 cps	
115In (KED)	71.090 %	589,934 cps	
133Cs (KED)	0.038 ppb	833 cps	
138Ba (KED)	2.101 ppb	62,289 cps	
139La (KED)	0.194 ppb	12,516 cps	
140Ce (KED)	0.417 ppb	35,979 cps	
141Pr (KED)	0.044 ppb	3,797 cps	
142Nd (KED)	0.245 ppb	8,566 cps	
152Sm (KED)	0.035 ppb	1,077 cps	
153Eu (KED)	0.005 ppb	337 cps	
158Gd (KED)	0.032 ppb	1,323 cps	
159Tb (KED)	68.979 %	2,973,166 cps	
164Dy (KED)	0.022 ppb	1,033 cps	
166Er (KED)	0.009 ppb	703 cps	
169Tm (KED)	0.001 ppb	270 cps	
174Yb (KED)	0.009 ppb	567 cps	
175Lu (KED)	-0.020 ppb	10,411 cps	
205Tl (KED)	0.003 ppb	443 cps	
208Pb (KED)	0.336 ppb	33,839 cps	
209Bi (KED)	70.127 %	2,475,315 cps	
232Th (KED)	0.061 ppb	11,462 cps	
238U (KED)	0.016 ppb	3,357 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 48

Analysis name: 17322jian

Analysis started at: 11/4/2021 4:54:04 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	75.816 %	
9Be (KED)	-0.007 ppb	
11B (KED)	15.257 ppb	
24Mg (KED)	211.413 ppb	
27Al (KED)	247.712 ppb	
45Sc (KED)	81.279 %	
51V (KED)	0.484 ppb	
52Cr (KED)	0.587 ppb	
55Mn (KED)	6.834 ppb	
56Fe (KED)	254.078 ppb	
58Ni (KED)	1.225 ppb	
59Co (KED)	0.111 ppb	
63Cu (KED)	2.406 ppb	
64Zn (KED)	60.943 ppb	
69Ga (KED)	0.678 ppb	
75As (KED)	0.187 ppb	
80Se (KED)	1.335 ppb	
85Rb (KED)	0.863 ppb	
88Sr (KED)	2.963 ppb	
89Y (KED)	75.419 %	
107Ag (KED)	0.005 ppb	
114Cd (KED)	0.013 ppb	
115In (KED)	73.026 %	
133Cs (KED)	0.056 ppb	
138Ba (KED)	2.133 ppb	
139La (KED)	0.225 ppb	
140Ce (KED)	0.462 ppb	
141Pr (KED)	0.050 ppb	
142Nd (KED)	0.295 ppb	
152Sm (KED)	0.039 ppb	
153Eu (KED)	0.006 ppb	
158Gd (KED)	0.032 ppb	
159Tb (KED)	72.902 %	
164Dy (KED)	0.023 ppb	
166Er (KED)	0.010 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.011 ppb	
175Lu (KED)	-0.024 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.343 ppb	
209Bi (KED)	72.115 %	
232Th (KED)	0.071 ppb	
238U (KED)	0.019 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	75.816 %	2,240 cps	
9Be (KED)	-0.007 ppb	0 cps	
11B (KED)	15.257 ppb	1,567 cps	
24Mg (KED)	211.413 ppb	95,763 cps	
27Al (KED)	247.712 ppb	29,408 cps	

Comprehensive

11/4/2021 4:56:04 PM

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	81.279 %	43,910 cps	
51V (KED)	0.484 ppb	3,847 cps	
52Cr (KED)	0.587 ppb	7,402 cps	
55Mn (KED)	6.834 ppb	40,606 cps	
56Fe (KED)	254.078 ppb	2,793,437 cps	
58Ni (KED)	1.225 ppb	17,879 cps	
59Co (KED)	0.111 ppb	2,627 cps	
63Cu (KED)	2.406 ppb	40,680 cps	
64Zn (KED)	60.943 ppb	260,043 cps	
69Ga (KED)	0.678 ppb	3,657 cps	
75As (KED)	0.187 ppb	237 cps	
80Se (KED)	1.335 ppb	1,497 cps	
85Rb (KED)	0.863 ppb	4,047 cps	
88Sr (KED)	2.963 ppb	19,355 cps	
89Y (KED)	75.419 %	351,506 cps	
107Ag (KED)	0.005 ppb	220 cps	
114Cd (KED)	0.013 ppb	213 cps	
115In (KED)	73.026 %	606,004 cps	
133Cs (KED)	0.056 ppb	1,257 cps	
138Ba (KED)	2.133 ppb	66,822 cps	
139La (KED)	0.225 ppb	15,316 cps	
140Ce (KED)	0.462 ppb	42,051 cps	
141Pr (KED)	0.050 ppb	4,631 cps	
142Nd (KED)	0.295 ppb	10,911 cps	
152Sm (KED)	0.039 ppb	1,253 cps	
153Eu (KED)	0.006 ppb	427 cps	
158Gd (KED)	0.032 ppb	1,413 cps	
159Tb (KED)	72.902 %	3,142,242 cps	
164Dy (KED)	0.023 ppb	1,130 cps	
166Er (KED)	0.010 ppb	817 cps	
169Tm (KED)	0.001 ppb	267 cps	
174Yb (KED)	0.011 ppb	777 cps	
175Lu (KED)	-0.024 ppb	10,538 cps	
205Tl (KED)	0.004 ppb	570 cps	
208Pb (KED)	0.343 ppb	35,514 cps	
209Bi (KED)	72.115 %	2,545,476 cps	
232Th (KED)	0.071 ppb	13,688 cps	
238U (KED)	0.019 ppb	4,134 cps	