

Instrument Summary:

Instrument Name: iCAP RQ
Serial Number: Undefined

LabBook Summary:

Path and filename: _Application Data\Workspace\LabBooks\2024_02_22_M28RuPdRe_Ridha_Poettker-Menke_...
LabBook created by: THERMOF-6VBH8PN\CPMS-User
Based on Template: 2022_08_09_M28Ga_Template
Experiment Configuration: iCAP RQ mit Cetac Teledyne Autosampler
Evaluation: eQuant
Qtegra version (last saved): 2.10.4345.136
LabBook started: 22-Feb-24 11:51:03
LabBook finished: 22-Feb-24 15:16:17

Method Summary:

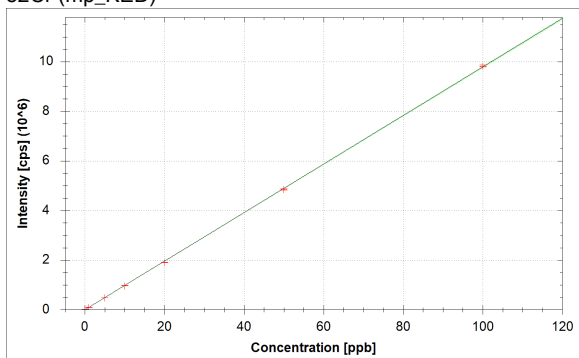
Isotope	Mode	Dwell time [s]	No. of channels	Spacing	Resolution	Internal Standard
52Cr (mp_KED)	mp_KED	0.01	1	0.1	Normal	
53Cr (mp_KED)	mp_KED	0.01	1	0.1	Normal	
55Mn (mp_KED)	mp_KED	0.01	1	0.1	Normal	
56Fe (mp_KED)	mp_KED	0.01	1	0.1	Normal	
57Fe (mp_KED)	mp_KED	0.01	1	0.1	Normal	
59Co (mp_KED)	mp_KED	0.01	1	0.1	Normal	
60Ni (mp_KED)	mp_KED	0.01	1	0.1	Normal	
61Ni (mp_KED)	mp_KED	0.01	1	0.1	Normal	
62Ni (mp_KED)	mp_KED	0.01	1	0.1	Normal	
63Cu (mp_KED)	mp_KED	0.01	1	0.1	Normal	
65Cu (mp_KED)	mp_KED	0.01	1	0.1	Normal	
88Sr (mp_KED)	mp_KED	0.01	1	0.1	Normal	
105Pd (mp_KED)	mp_KED	0.01	1	0.1	Normal	

Isotope	Mode	Dwell time [s]	No. of channels	Spacing	Resolution
52Cr (mp_KED)	mp_KED	0.01	1	0.1	Normal
53Cr (mp_KED)	mp_KED	0.01	1	0.1	Normal
55Mn (mp_KED)	mp_KED	0.01	1	0.1	Normal
56Fe (mp_KED)	mp_KED	0.01	1	0.1	Normal
57Fe (mp_KED)	mp_KED	0.01	1	0.1	Normal
59Co (mp_KED)	mp_KED	0.01	1	0.1	Normal
60Ni (mp_KED)	mp_KED	0.01	1	0.1	Normal
61Ni (mp_KED)	mp_KED	0.01	1	0.1	Normal
62Ni (mp_KED)	mp_KED	0.01	1	0.1	Normal
63Cu (mp_KED)	mp_KED	0.01	1	0.1	Normal
65Cu (mp_KED)	mp_KED	0.01	1	0.1	Normal
88Sr (mp_KED)	mp_KED	0.01	1	0.1	Normal
105Pd (mp_KED)	mp_KED	0.01	1	0.1	Normal

No. of sweeps	Time per sweep [s]	Time per main run [s]
100	0.13	13

Calibration Curves:

52Cr (mp_KED)



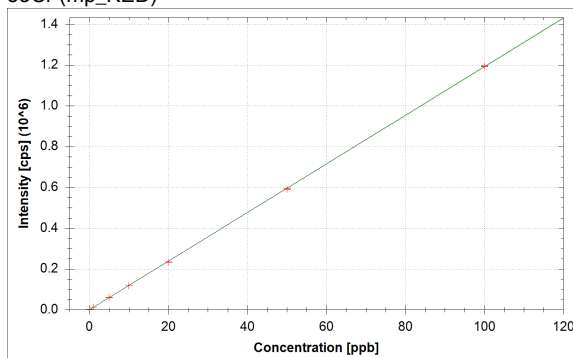
$$f(x) = 97834.7768 \cdot x + 386.2577$$

$$R^2 = 0.9999$$

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

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

53Cr (mp_KED)



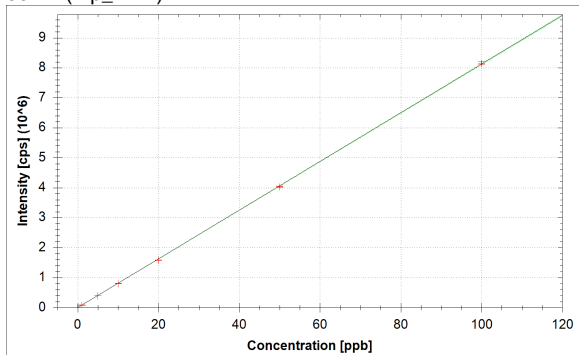
$$f(x) = 11922.0941 \cdot x + 184.5022$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0093 \text{ ppb}$$

55Mn (mp_KED)



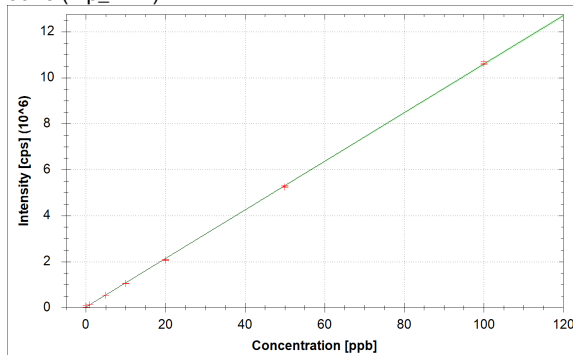
$$f(x) = 81231.4461 \cdot x + 225.2531$$

$$R^2 = 0.9999$$

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

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

56Fe (mp_KED)



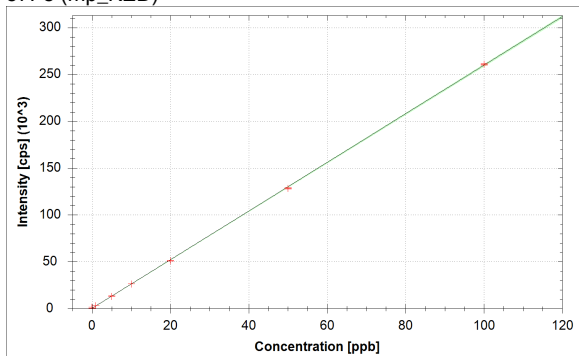
$$f(x) = 105709.8745 \cdot x + 20147.8547$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.191 \text{ ppb}$$

$$\text{LoD} = 0.0115 \text{ ppb}$$

57Fe (mp_KED)



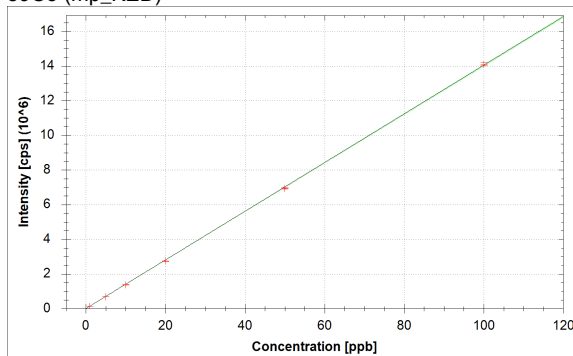
$$f(x) = 2597.3468 \cdot x + 261.7539$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.101 \text{ ppb}$$

$$\text{LoD} = 0.0586 \text{ ppb}$$

59Co (mp_KED)



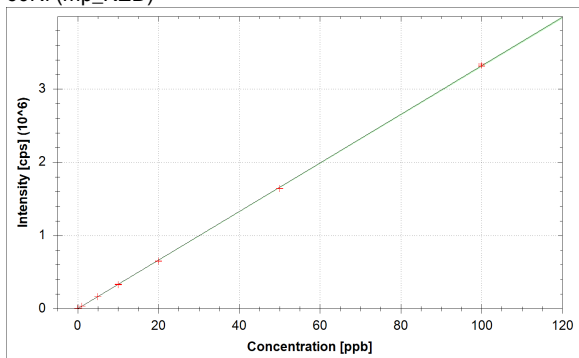
$$f(x) = 140427.6413 \cdot x + 484.7616$$

$$R^2 = 0.9999$$

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

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

60Ni (mp_KED)



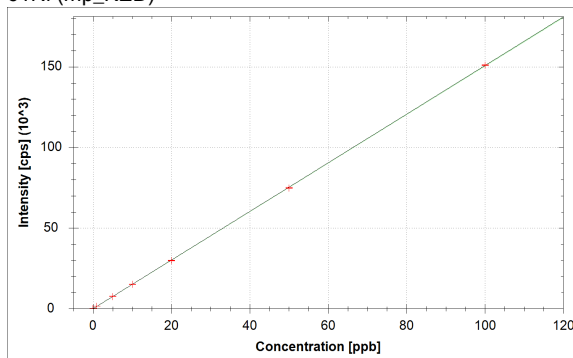
$$f(x) = 33156.2875 \cdot x + 885.0353$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.027 \text{ ppb}$$

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

61Ni (mp_KED)



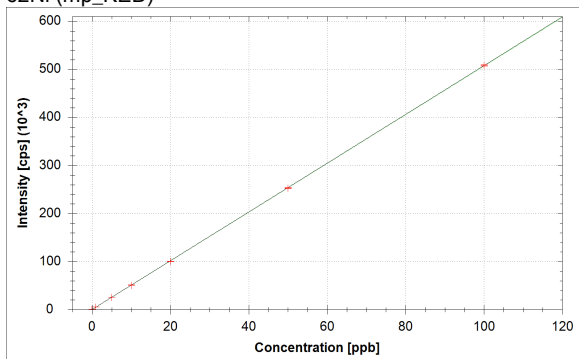
$$f(x) = 1507.1878 \cdot x + 34.2502$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.023 \text{ ppb}$$

$$\text{LoD} = 0.0140 \text{ ppb}$$

62Ni (mp_KED)



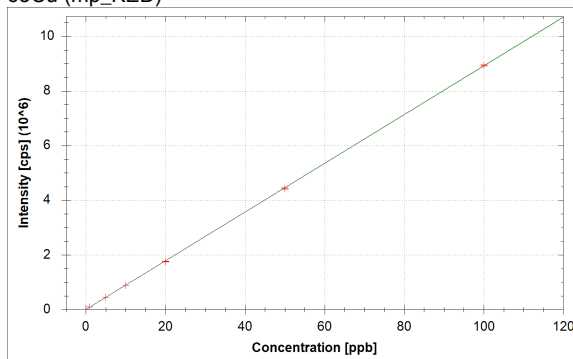
$$f(x) = 5075.1179 \cdot x + 129.7513$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.026 \text{ ppb}$$

$$\text{LoD} = 0.0097 \text{ ppb}$$

63Cu (mp_KED)



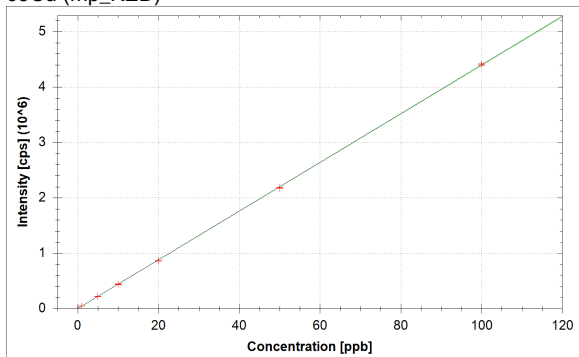
$$f(x) = 89151.8275 \cdot x + 1957.9120$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.022 \text{ ppb}$$

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

65Cu (mp_KED)



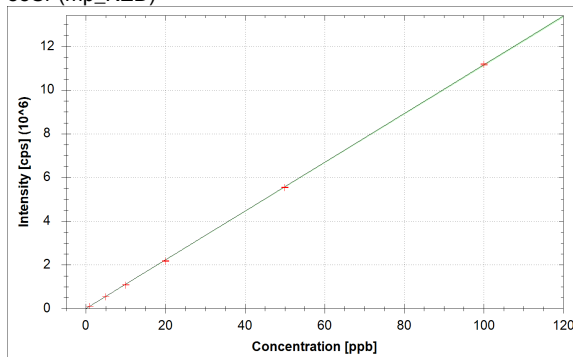
$$f(x) = 43959.1866 \cdot x + 985.2928$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.022 \text{ ppb}$$

$$\text{LoD} = 0.0023 \text{ ppb}$$

88Sr (mp_KED)



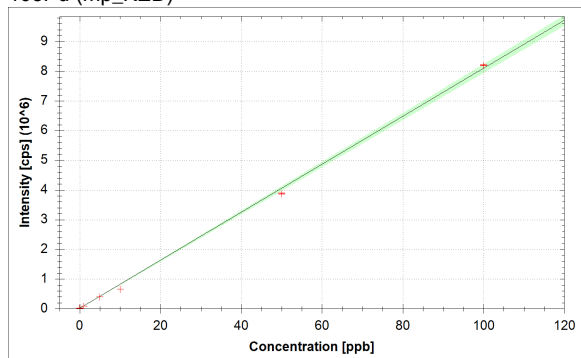
$$f(x) = 111504.4507 \cdot x + 143.0015$$

$$R^2 = 0.9999$$

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

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

105Pd (mp_KED)



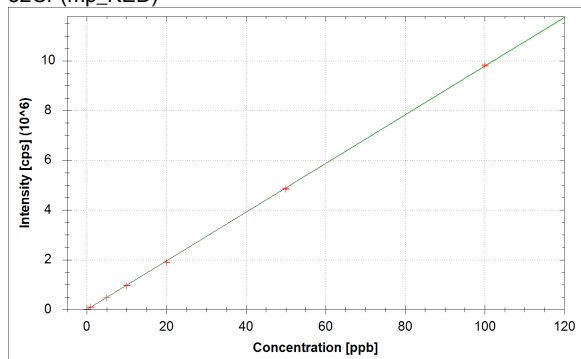
$$f(x) = 80820.7102 \cdot x + 16978.0657$$

$$R^2 = 0.9988$$

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

$$\text{LoD} = 0.0056 \text{ ppb}$$

52Cr (mp_KED)



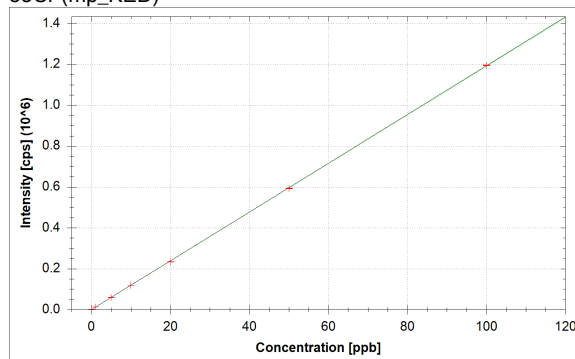
$$f(x) = 97834.7768 \cdot x + 386.2577$$

$$R^2 = 0.9999$$

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

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

53Cr (mp_KED)



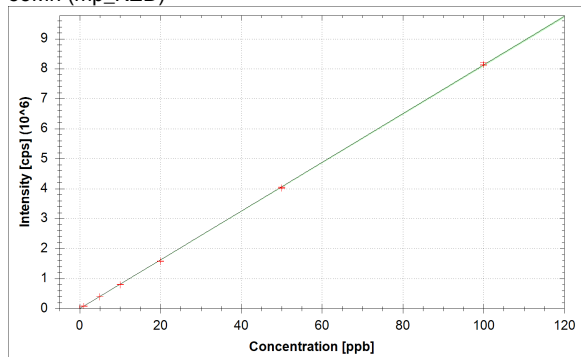
$$f(x) = 11922.0941 \cdot x + 184.5022$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0093 \text{ ppb}$$

55Mn (mp_KED)



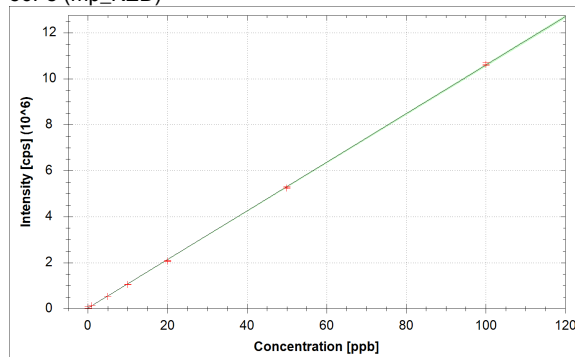
$$f(x) = 81231.4461 \cdot x + 225.2531$$

$$R^2 = 0.9999$$

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

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

56Fe (mp_KED)



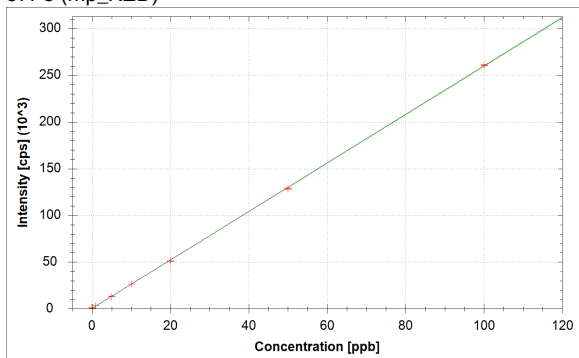
$$f(x) = 105709.8745 \cdot x + 20147.8547$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.191 \text{ ppb}$$

$$\text{LoD} = 0.0115 \text{ ppb}$$

57Fe (mp_KED)



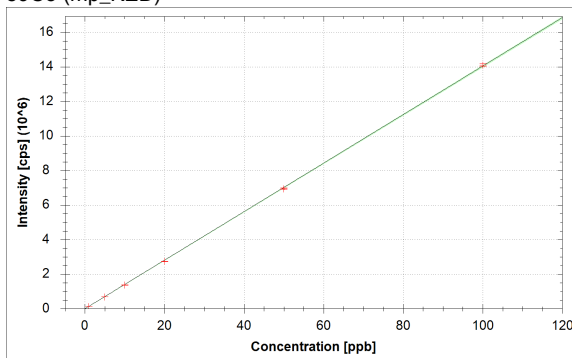
$$f(x) = 2597.3468x + 261.7539$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.101 \text{ ppb}$$

$$\text{LoD} = 0.0586 \text{ ppb}$$

59Co (mp_KED)



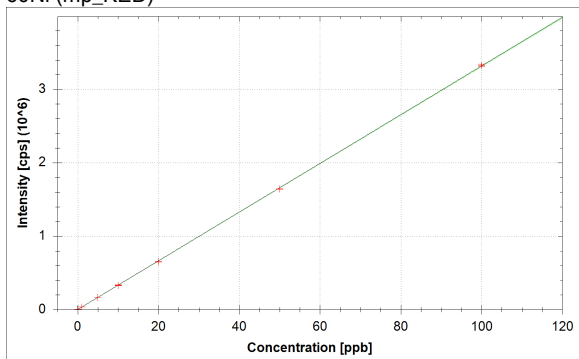
$$f(x) = 140427.6413x + 484.7616$$

$$R^2 = 0.9999$$

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

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

60Ni (mp_KED)



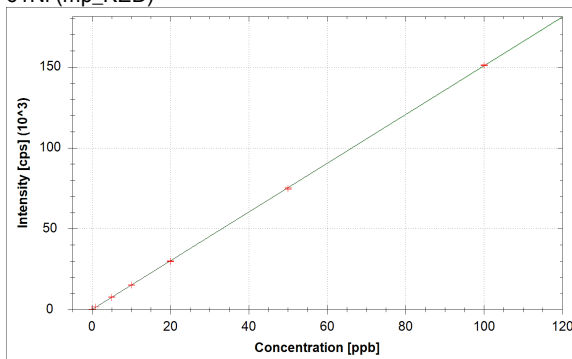
$$f(x) = 33156.2875x + 885.0353$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.027 \text{ ppb}$$

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

61Ni (mp_KED)



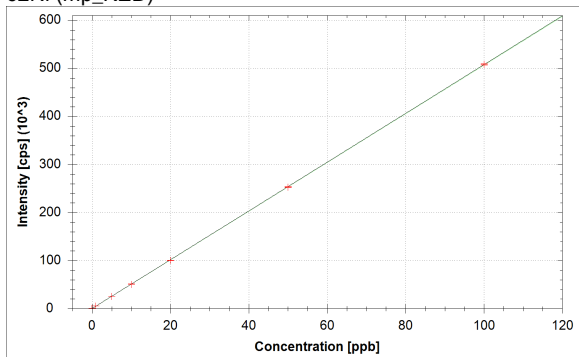
$$f(x) = 1507.1878x + 34.2502$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.023 \text{ ppb}$$

$$\text{LoD} = 0.0140 \text{ ppb}$$

62Ni (mp_KED)



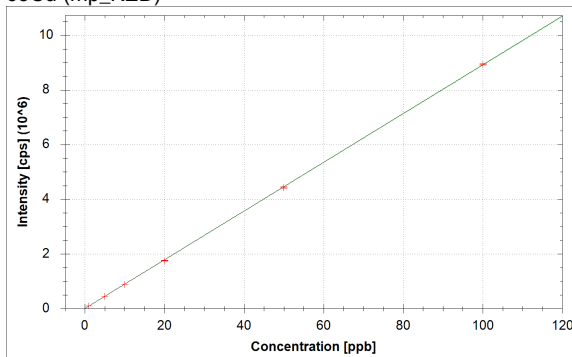
$$f(x) = 5075.1179x + 129.7513$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.026 \text{ ppb}$$

$$\text{LoD} = 0.0097 \text{ ppb}$$

63Cu (mp_KED)



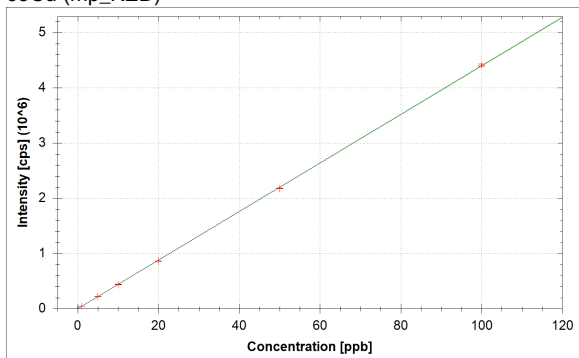
$$f(x) = 89151.8275x + 1957.9120$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.022 \text{ ppb}$$

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

⁶⁵Cu (mp_KED)



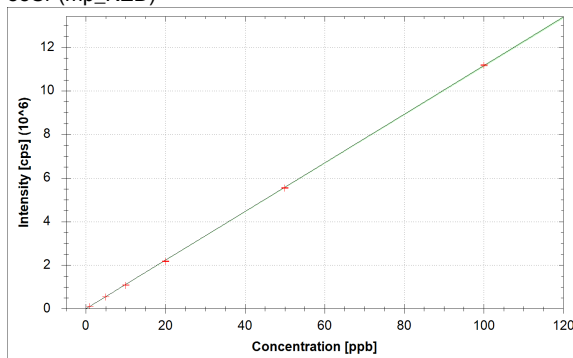
$$f(x) = 43959.1866 \cdot x + 985.2928$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.022 \text{ ppb}$$

$$\text{LoD} = 0.0023 \text{ ppb}$$

⁸⁸Sr (mp_KED)



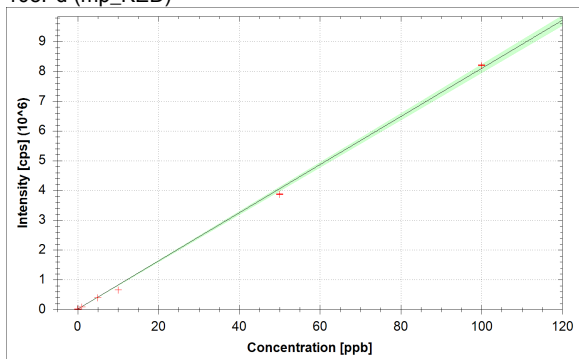
$$f(x) = 111504.4507 \cdot x + 143.0015$$

$$R^2 = 0.9999$$

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

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

¹⁰⁵Pd (mp_KED)



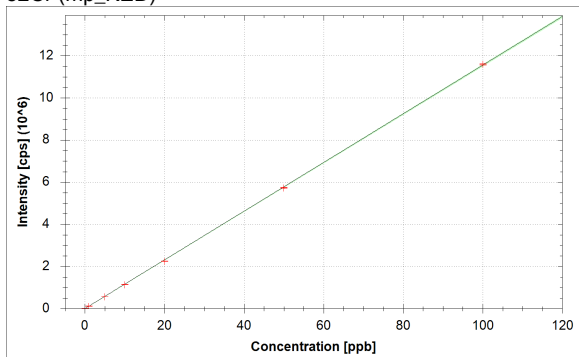
$$f(x) = 80820.7102 \cdot x + 16978.0657$$

$$R^2 = 0.9988$$

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

$$\text{LoD} = 0.0056 \text{ ppb}$$

⁵²Cr (mp_KED)



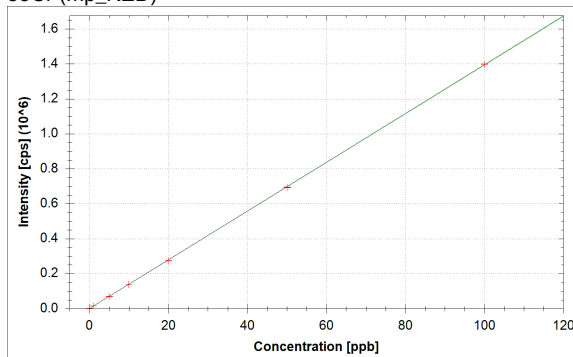
$$f(x) = 115521.0661 \cdot x + 456.0842$$

$$R^2 = 0.9999$$

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

$$\text{LoD} = 0.0010 \text{ ppb}$$

⁵³Cr (mp_KED)



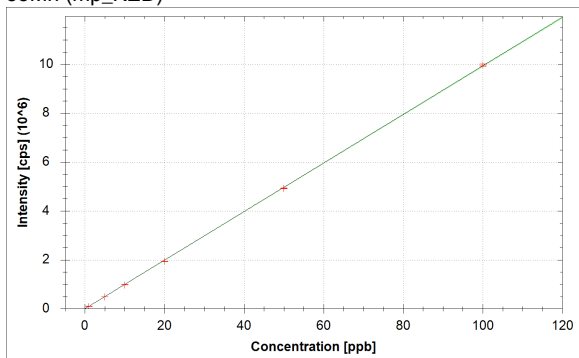
$$f(x) = 13940.7525 \cdot x + 215.7423$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0079 \text{ ppb}$$

55Mn (mp_KED)



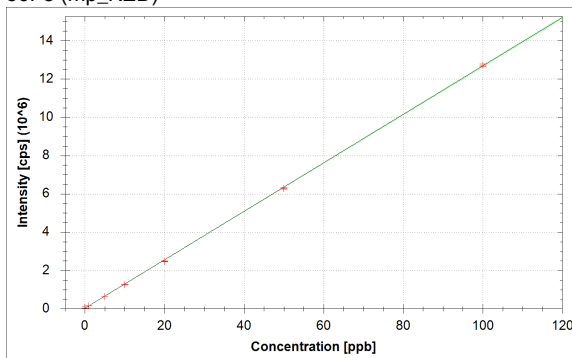
$$f(x) = 99352.6993 \cdot x + 275.5030$$

$$R^2 = 0.9999$$

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

$$\text{LoD} = 0.0010 \text{ ppb}$$

56Fe (mp_KED)



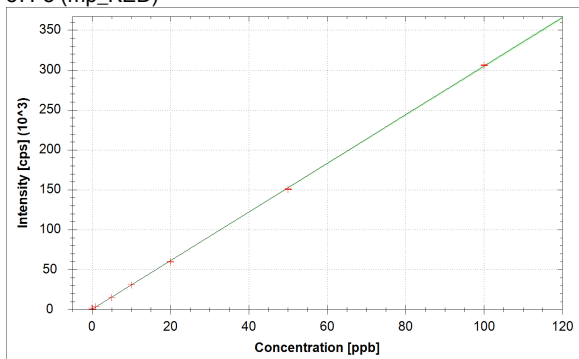
$$f(x) = 126536.5322 \cdot x + 24117.3276$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.191 \text{ ppb}$$

$$\text{LoD} = 0.0096 \text{ ppb}$$

57Fe (mp_KED)



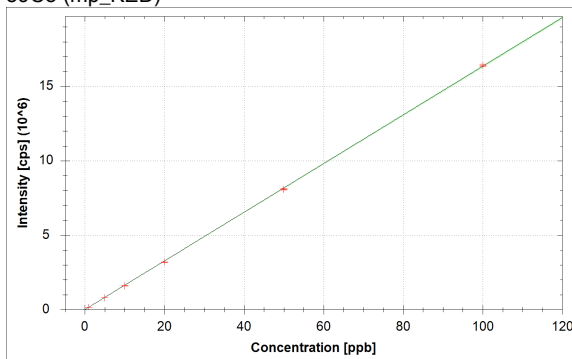
$$f(x) = 3044.5358 \cdot x + 306.8204$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.101 \text{ ppb}$$

$$\text{LoD} = 0.0500 \text{ ppb}$$

59Co (mp_KED)



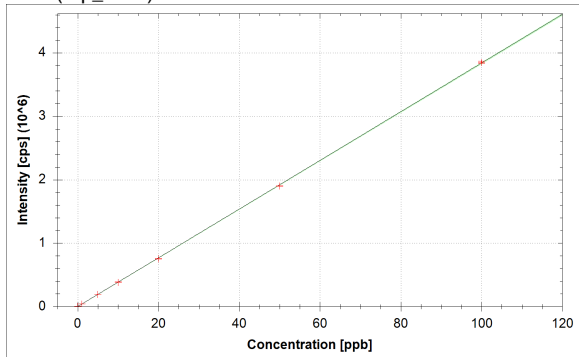
$$f(x) = 163517.6019 \cdot x + 564.4690$$

$$R^2 = 0.9999$$

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

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

60Ni (mp_KED)



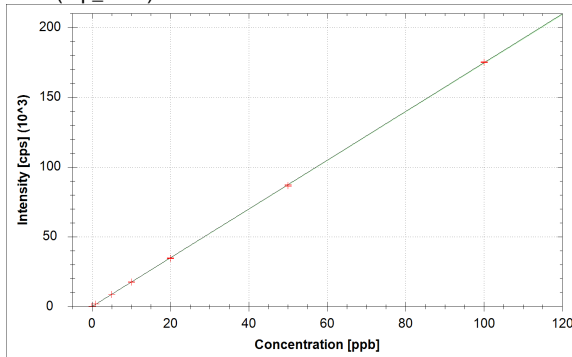
$$f(x) = 38378.5335 \cdot x + 1024.4318$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.027 \text{ ppb}$$

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

61Ni (mp_KED)

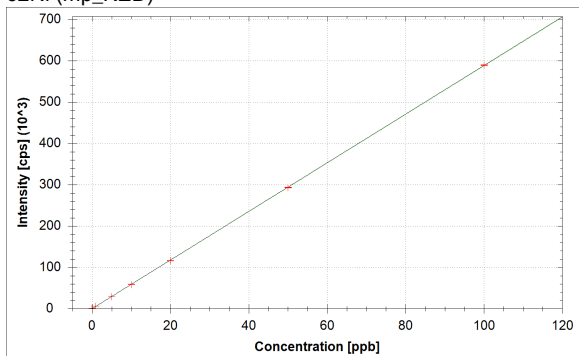


$$f(x) = 1746.3709 \cdot x + 39.6855$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.023 \text{ ppb}$$

$$\text{LoD} = 0.0121 \text{ ppb}$$

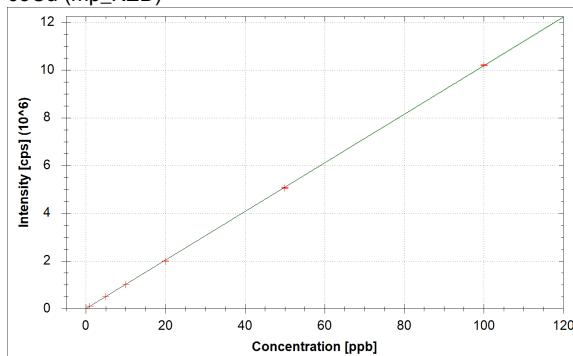
⁶²Ni (mp_KED)

$$f(x) = 5882.9741 \cdot x + 150.4051$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.026 \text{ ppb}$$

$$\text{LoD} = 0.0083 \text{ ppb}$$

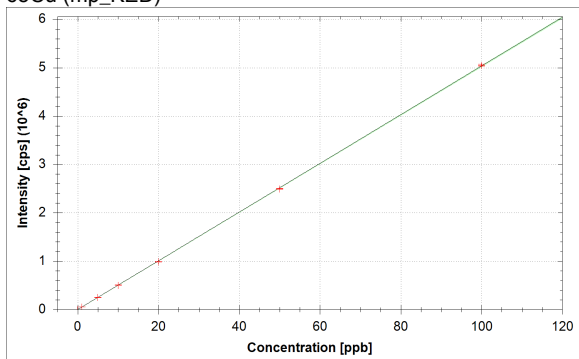
⁶³Cu (mp_KED)

$$f(x) = 101795.1118 \cdot x + 2235.5781$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.022 \text{ ppb}$$

$$\text{LoD} = 0.0010 \text{ ppb}$$

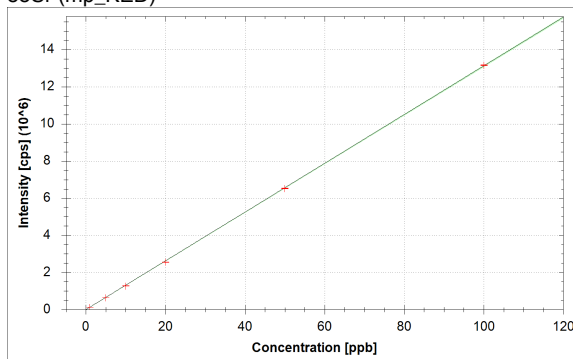
⁶⁵Cu (mp_KED)

$$f(x) = 50338.7599 \cdot x + 1128.2834$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.022 \text{ ppb}$$

$$\text{LoD} = 0.0020 \text{ ppb}$$

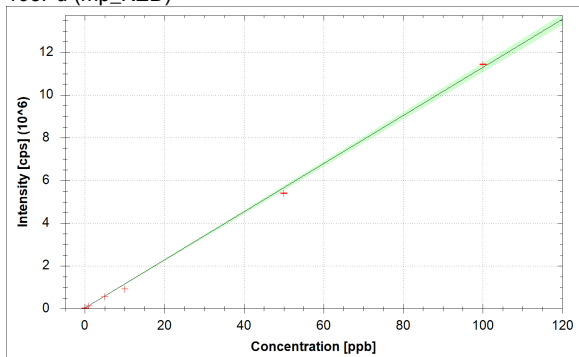
⁸⁸Sr (mp_KED)

$$f(x) = 131228.9456 \cdot x + 168.2976$$

$$R^2 = 0.9999$$

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

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

¹⁰⁵Pd (mp_KED)

$$f(x) = 112699.4125 \cdot x + 23674.8481$$

$$R^2 = 0.9988$$

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

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

Standards:

Analysis Index: 4
Analysis Name: M28RuPdRe 0 ppb 300µL HNO3 30.10.2023 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:06:38
Standard (Stock): M94 0
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	0.005 ppb	7.7 %	0.000 ppb
53Cr (mp_KED)	0.016 ppb	7.0 %	0.000 ppb
55Mn (mp_KED)	0.000 ppb	47.0 %	0.000 ppb
56Fe (mp_KED)	0.106 ppb	3.8 %	0.000 ppb
57Fe (mp_KED)	0.100 ppb	8.8 %	0.000 ppb
59Co (mp_KED)	-0.001 ppb	6.2 %	0.000 ppb
60Ni (mp_KED)	0.007 ppb	9.6 %	0.000 ppb
61Ni (mp_KED)	0.010 ppb	54.5 %	0.000 ppb
62Ni (mp_KED)	0.005 ppb	43.0 %	0.000 ppb
63Cu (mp_KED)	0.024 ppb	2.4 %	0.000 ppb
65Cu (mp_KED)	0.024 ppb	2.9 %	0.000 ppb
88Sr (mp_KED)	0.000 ppb	78.4 %	0.000 ppb
105Pd (mp_KED)	-0.190 ppb	33.8 %	0.000 ppb

Standards:

Analysis Index: 5
Analysis Name: M28RuPdRe 1 ppb 300µL HNO3 30.10.2023 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:11:44
Standard (Stock): M94 1
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	0.988 ppb	0.6 %	1.000 ppb
53Cr (mp_KED)	1.011 ppb	0.8 %	1.000 ppb
55Mn (mp_KED)	0.980 ppb	0.6 %	1.000 ppb
56Fe (mp_KED)	1.146 ppb	0.9 %	1.000 ppb
57Fe (mp_KED)	1.156 ppb	1.3 %	1.000 ppb
59Co (mp_KED)	0.971 ppb	0.6 %	1.000 ppb
60Ni (mp_KED)	1.003 ppb	1.3 %	1.000 ppb
61Ni (mp_KED)	1.015 ppb	1.6 %	1.000 ppb
62Ni (mp_KED)	1.010 ppb	1.1 %	1.000 ppb
63Cu (mp_KED)	1.022 ppb	0.2 %	1.000 ppb
65Cu (mp_KED)	1.022 ppb	1.0 %	1.000 ppb
88Sr (mp_KED)	0.945 ppb	0.7 %	1.000 ppb
105Pd (mp_KED)	0.514 ppb	1.6 %	1.000 ppb

Standards:

Analysis Index: 6
Analysis Name: M28RuPdRe 5 ppb 300µL HNO3 30.10.2023 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:16:51
Standard (Stock): M94 5
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	4.851 ppb	0.4 %	5.000 ppb
53Cr (mp_KED)	4.894 ppb	0.6 %	5.000 ppb
55Mn (mp_KED)	4.796 ppb	0.7 %	5.000 ppb
56Fe (mp_KED)	5.513 ppb	0.5 %	5.000 ppb
57Fe (mp_KED)	5.535 ppb	0.9 %	5.000 ppb
59Co (mp_KED)	4.815 ppb	0.3 %	5.000 ppb
60Ni (mp_KED)	4.958 ppb	0.4 %	5.000 ppb
61Ni (mp_KED)	5.009 ppb	1.0 %	5.000 ppb
62Ni (mp_KED)	4.956 ppb	0.7 %	5.000 ppb
63Cu (mp_KED)	4.942 ppb	0.7 %	5.000 ppb
65Cu (mp_KED)	4.955 ppb	0.4 %	5.000 ppb
88Sr (mp_KED)	4.679 ppb	0.6 %	5.000 ppb
105Pd (mp_KED)	3.877 ppb	0.7 %	5.000 ppb

Standards:

Analysis Index: 7
Analysis Name: M28RuPdRe 10 ppb 300µL HNO3 30.10.2023 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:21:59
Standard (Stock): M94 10
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	9.578 ppb	0.7 %	10.000 ppb
53Cr (mp_KED)	9.620 ppb	0.6 %	10.000 ppb
55Mn (mp_KED)	9.509 ppb	0.4 %	10.000 ppb
56Fe (mp_KED)	9.386 ppb	0.6 %	10.000 ppb
57Fe (mp_KED)	9.493 ppb	0.8 %	10.000 ppb
59Co (mp_KED)	9.451 ppb	0.8 %	10.000 ppb
60Ni (mp_KED)	9.676 ppb	0.6 %	10.000 ppb
61Ni (mp_KED)	9.727 ppb	0.7 %	10.000 ppb
62Ni (mp_KED)	9.717 ppb	0.8 %	10.000 ppb
63Cu (mp_KED)	9.677 ppb	0.9 %	10.000 ppb
65Cu (mp_KED)	9.659 ppb	0.9 %	10.000 ppb
88Sr (mp_KED)	9.320 ppb	1.1 %	10.000 ppb
105Pd (mp_KED)	4.847 ppb	0.8 %	10.000 ppb

Standards:

Analysis Index: 8
Analysis Name: M28RuPdRe 20 ppb 300µL HNO3 30.10.2023 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:27:07
Standard (Stock): M94 20
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	18.993 ppb	0.3 %	20.000 ppb
53Cr (mp_KED)	19.100 ppb	0.3 %	20.000 ppb
55Mn (mp_KED)	18.856 ppb	0.5 %	20.000 ppb
56Fe (mp_KED)	18.848 ppb	0.4 %	20.000 ppb
57Fe (mp_KED)	18.992 ppb	0.9 %	20.000 ppb
59Co (mp_KED)	18.955 ppb	0.5 %	20.000 ppb
60Ni (mp_KED)	19.143 ppb	0.5 %	20.000 ppb
61Ni (mp_KED)	19.381 ppb	0.6 %	20.000 ppb
62Ni (mp_KED)	19.239 ppb	0.5 %	20.000 ppb
63Cu (mp_KED)	19.188 ppb	0.4 %	20.000 ppb
65Cu (mp_KED)	19.102 ppb	0.2 %	20.000 ppb
88Sr (mp_KED)	18.630 ppb	0.6 %	20.000 ppb
105Pd (mp_KED)	9.744 ppb	0.4 %	20.000 ppb

Standards:

Analysis Index: 9
Analysis Name: M28RuPdRe 50 ppb 300µL HNO3 30.10.2023 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:32:16
Standard (Stock): M94 50
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	46.114 ppb	0.2 %	50.000 ppb
53Cr (mp_KED)	46.131 ppb	0.5 %	50.000 ppb
55Mn (mp_KED)	45.827 ppb	0.4 %	50.000 ppb
56Fe (mp_KED)	45.732 ppb	0.2 %	50.000 ppb
57Fe (mp_KED)	45.963 ppb	0.6 %	50.000 ppb
59Co (mp_KED)	46.077 ppb	0.2 %	50.000 ppb
60Ni (mp_KED)	46.361 ppb	0.7 %	50.000 ppb
61Ni (mp_KED)	46.858 ppb	0.4 %	50.000 ppb
62Ni (mp_KED)	46.514 ppb	0.5 %	50.000 ppb
63Cu (mp_KED)	46.679 ppb	0.5 %	50.000 ppb
65Cu (mp_KED)	46.321 ppb	0.5 %	50.000 ppb
88Sr (mp_KED)	45.051 ppb	0.3 %	50.000 ppb
105Pd (mp_KED)	38.039 ppb	0.8 %	50.000 ppb

Standards:

Analysis Index: 10
Analysis Name: M28RuPdRe 100 ppb 300µL HNO3 30.10.2023 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:37:26
Standard (Stock): M94 100
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	89.511 ppb	0.5 %	100.000 ppb
53Cr (mp_KED)	89.382 ppb	0.5 %	100.000 ppb
55Mn (mp_KED)	88.830 ppb	0.8 %	100.000 ppb
56Fe (mp_KED)	88.817 ppb	0.2 %	100.000 ppb
57Fe (mp_KED)	88.957 ppb	0.4 %	100.000 ppb
59Co (mp_KED)	88.829 ppb	0.3 %	100.000 ppb
60Ni (mp_KED)	90.204 ppb	0.2 %	100.000 ppb
61Ni (mp_KED)	89.696 ppb	0.6 %	100.000 ppb
62Ni (mp_KED)	90.100 ppb	0.7 %	100.000 ppb
63Cu (mp_KED)	89.585 ppb	0.3 %	100.000 ppb
65Cu (mp_KED)	89.603 ppb	0.2 %	100.000 ppb
88Sr (mp_KED)	88.296 ppb	0.8 %	100.000 ppb
105Pd (mp_KED)	83.441 ppb	0.1 %	100.000 ppb

Standards:

Analysis Index: 13
Analysis Name: M42 0 ppb 300µL HNO3 16.02.2024 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:52:48
Standard (Stock): M94 0
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	0.000 ppb	6.7 %	0.000 ppb
53Cr (mp_KED)	0.000 ppb	9.7 %	0.000 ppb
55Mn (mp_KED)	0.000 ppb	13.1 %	0.000 ppb
56Fe (mp_KED)	0.000 ppb	0.9 %	0.000 ppb
57Fe (mp_KED)	0.000 ppb	6.6 %	0.000 ppb
59Co (mp_KED)	0.000 ppb	5.3 %	0.000 ppb
60Ni (mp_KED)	0.000 ppb	3.2 %	0.000 ppb
61Ni (mp_KED)	0.000 ppb	22.8 %	0.000 ppb
62Ni (mp_KED)	0.000 ppb	5.2 %	0.000 ppb
63Cu (mp_KED)	0.000 ppb	1.7 %	0.000 ppb
65Cu (mp_KED)	0.000 ppb	3.9 %	0.000 ppb
88Sr (mp_KED)	0.000 ppb	12.0 %	0.000 ppb
105Pd (mp_KED)	0.000 ppb	4.7 %	0.000 ppb

Standards:

Analysis Index: 14
Analysis Name: M42 1 ppb 300µL HNO3 16.02.2024 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 12:57:55
Standard (Stock): M94 1
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	0.981 ppb	0.9 %	1.000 ppb
53Cr (mp_KED)	0.991 ppb	0.5 %	1.000 ppb
55Mn (mp_KED)	0.981 ppb	1.1 %	1.000 ppb
56Fe (mp_KED)	1.098 ppb	0.8 %	1.000 ppb
57Fe (mp_KED)	1.122 ppb	1.6 %	1.000 ppb
59Co (mp_KED)	0.968 ppb	0.8 %	1.000 ppb
60Ni (mp_KED)	0.993 ppb	0.7 %	1.000 ppb
61Ni (mp_KED)	1.008 ppb	0.3 %	1.000 ppb
62Ni (mp_KED)	1.005 ppb	1.4 %	1.000 ppb
63Cu (mp_KED)	0.983 ppb	0.6 %	1.000 ppb
65Cu (mp_KED)	0.983 ppb	0.6 %	1.000 ppb
88Sr (mp_KED)	0.965 ppb	0.8 %	1.000 ppb
105Pd (mp_KED)	0.885 ppb	0.6 %	1.000 ppb

Standards:

Analysis Index: 15
Analysis Name: M42 5 ppb 300µL HNO3 16.02.2024 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 13:03:02
Standard (Stock): M94 5
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	4.913 ppb	0.8 %	5.000 ppb
53Cr (mp_KED)	4.958 ppb	0.6 %	5.000 ppb
55Mn (mp_KED)	4.899 ppb	0.4 %	5.000 ppb
56Fe (mp_KED)	4.858 ppb	0.5 %	5.000 ppb
57Fe (mp_KED)	4.959 ppb	1.6 %	5.000 ppb
59Co (mp_KED)	4.881 ppb	0.5 %	5.000 ppb
60Ni (mp_KED)	4.984 ppb	0.8 %	5.000 ppb
61Ni (mp_KED)	5.056 ppb	0.8 %	5.000 ppb
62Ni (mp_KED)	4.983 ppb	0.4 %	5.000 ppb
63Cu (mp_KED)	4.972 ppb	0.2 %	5.000 ppb
65Cu (mp_KED)	4.952 ppb	0.4 %	5.000 ppb
88Sr (mp_KED)	4.858 ppb	0.8 %	5.000 ppb
105Pd (mp_KED)	4.720 ppb	0.6 %	5.000 ppb

Standards:

Analysis Index: 16
Analysis Name: M42 10 ppb 300µL HNO3 16.02.2024 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 13:08:09
Standard (Stock): M94 10
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	9.842 ppb	1.1 %	10.000 ppb
53Cr (mp_KED)	9.933 ppb	0.4 %	10.000 ppb
55Mn (mp_KED)	9.854 ppb	0.9 %	10.000 ppb
56Fe (mp_KED)	9.770 ppb	0.8 %	10.000 ppb
57Fe (mp_KED)	10.027 ppb	0.6 %	10.000 ppb
59Co (mp_KED)	9.792 ppb	0.8 %	10.000 ppb
60Ni (mp_KED)	9.955 ppb	0.9 %	10.000 ppb
61Ni (mp_KED)	10.036 ppb	0.6 %	10.000 ppb
62Ni (mp_KED)	9.976 ppb	1.1 %	10.000 ppb
63Cu (mp_KED)	9.966 ppb	0.6 %	10.000 ppb
65Cu (mp_KED)	9.963 ppb	0.9 %	10.000 ppb
88Sr (mp_KED)	9.694 ppb	0.9 %	10.000 ppb
105Pd (mp_KED)	7.938 ppb	0.5 %	10.000 ppb

Standards:

Analysis Index: 17
Analysis Name: M42 20 ppb 300µL HNO3 16.02.2024 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 13:13:16
Standard (Stock): M94 20
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	19.428 ppb	0.8 %	20.000 ppb
53Cr (mp_KED)	19.524 ppb	0.5 %	20.000 ppb
55Mn (mp_KED)	19.467 ppb	0.3 %	20.000 ppb
56Fe (mp_KED)	19.422 ppb	0.9 %	20.000 ppb
57Fe (mp_KED)	19.558 ppb	0.5 %	20.000 ppb
59Co (mp_KED)	19.504 ppb	0.4 %	20.000 ppb
60Ni (mp_KED)	19.615 ppb	0.4 %	20.000 ppb
61Ni (mp_KED)	19.773 ppb	0.6 %	20.000 ppb
62Ni (mp_KED)	19.741 ppb	0.5 %	20.000 ppb
63Cu (mp_KED)	19.589 ppb	0.7 %	20.000 ppb
65Cu (mp_KED)	19.592 ppb	0.4 %	20.000 ppb
88Sr (mp_KED)	19.490 ppb	0.5 %	20.000 ppb
105Pd (mp_KED)	12.510 ppb	0.4 %	20.000 ppb

Standards:

Analysis Index: 18
Analysis Name: M42 50 ppb 300µL HNO3 16.02.2024 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 13:18:24
Standard (Stock): M94 50
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	49.528 ppb	0.6 %	50.000 ppb
53Cr (mp_KED)	49.705 ppb	0.4 %	50.000 ppb
55Mn (mp_KED)	49.576 ppb	0.6 %	50.000 ppb
56Fe (mp_KED)	49.551 ppb	0.8 %	50.000 ppb
57Fe (mp_KED)	49.412 ppb	0.5 %	50.000 ppb
59Co (mp_KED)	49.420 ppb	0.7 %	50.000 ppb
60Ni (mp_KED)	49.504 ppb	0.2 %	50.000 ppb
61Ni (mp_KED)	49.638 ppb	0.7 %	50.000 ppb
62Ni (mp_KED)	49.741 ppb	0.3 %	50.000 ppb
63Cu (mp_KED)	49.684 ppb	0.6 %	50.000 ppb
65Cu (mp_KED)	49.543 ppb	0.3 %	50.000 ppb
88Sr (mp_KED)	49.731 ppb	0.3 %	50.000 ppb
105Pd (mp_KED)	47.778 ppb	0.5 %	50.000 ppb

Standards:

Analysis Index: 19
Analysis Name: M42 100 ppb 300µL HNO3 16.02.2024 mtr
Analysis Type: STD
Analysis Started at: 22-Feb-24 13:23:33
Standard (Stock): M94 100
Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
52Cr (mp_KED)	100.371 ppb	0.4 %	100.000 ppb
53Cr (mp_KED)	100.252 ppb	0.1 %	100.000 ppb
55Mn (mp_KED)	100.338 ppb	0.6 %	100.000 ppb
56Fe (mp_KED)	100.369 ppb	0.6 %	100.000 ppb
57Fe (mp_KED)	100.380 ppb	0.3 %	100.000 ppb
59Co (mp_KED)	100.416 ppb	0.6 %	100.000 ppb
60Ni (mp_KED)	100.330 ppb	0.5 %	100.000 ppb
61Ni (mp_KED)	100.220 ppb	0.3 %	100.000 ppb
62Ni (mp_KED)	100.185 ppb	0.3 %	100.000 ppb
63Cu (mp_KED)	100.245 ppb	0.3 %	100.000 ppb
65Cu (mp_KED)	100.316 ppb	0.4 %	100.000 ppb
88Sr (mp_KED)	100.274 ppb	0.3 %	100.000 ppb
105Pd (mp_KED)	101.332 ppb	0.3 %	100.000 ppb

Sample List Summary:

Instrument Name: iCAP RQ

Index:	Label:	Main runs:	Survey runs:	Start time:
1	Rinse HNO3 2%	4	0	22-Feb-24 11:51:17
2	Rinse HNO3 2%	4	0	22-Feb-24 11:56:24
3	Rinse HNO3 2%	4	0	22-Feb-24 12:01:31
4	M28RuPdRe 0 ppb 300µL HNO3 30.10.2023 mtr	4	0	22-Feb-24 12:06:38
5	M28RuPdRe 1 ppb 300µL HNO3 30.10.2023 mtr	4	0	22-Feb-24 12:11:44
6	M28RuPdRe 5 ppb 300µL HNO3 30.10.2023 mtr	4	0	22-Feb-24 12:16:51
7	M28RuPdRe 10 ppb 300µL HNO3 30.10.2023 mtr	4	0	22-Feb-24 12:21:59
8	M28RuPdRe 20 ppb 300µL HNO3 30.10.2023 mtr	4	0	22-Feb-24 12:27:07
9	M28RuPdRe 50 ppb 300µL HNO3 30.10.2023 mtr	4	0	22-Feb-24 12:32:16
10	M28RuPdRe 100 ppb 300µL HNO3 30.10.2023 mtr	4	0	22-Feb-24 12:37:26
11	air	4	0	22-Feb-24 12:42:31
12	Rinse HNO3 2%	4	0	22-Feb-24 12:47:41
13	M42 0 ppb 300µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 12:52:48
14	M42 1 ppb 300µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 12:57:55
15	M42 5 ppb 300µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 13:03:02
16	M42 10 ppb 300µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 13:08:09
17	M42 20 ppb 300µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 13:13:16
18	M42 50 ppb 300µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 13:18:24
19	M42 100 ppb 300µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 13:23:33
20	M42 10 ppb 1500µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 13:28:40
21	Rinse HNO3 2%	4	0	22-Feb-24 13:33:51
22	RZE-011 - 0.1mol/L KOH 1.7V vs RHE 48h 5.8ml - 10%	4	0	22-Feb-24 13:39:00
23	RZE-011 - 0.1mol/L KOH 1.7V vs RHE 48h 5.8ml - 97%	4	0	22-Feb-24 13:44:08
24	Rinse HNO3 2%	4	0	22-Feb-24 13:49:15
25	RZE-021 - 0.1mol/L KOH 1.7V vs RHE 24h 1.4ml H2O compartment - 10%	4	0	22-Feb-24 13:54:22
26	RZE-021 - 0.1mol/L KOH 1.7V vs RHE 24h 1.4ml H2O compartment - 50%	4	0	22-Feb-24 13:59:29
27	Rinse HNO3 2%	4	0	22-Feb-24 14:04:37
28	573 Pd Sons 300µl HNO3 - 0.01%	4	0	22-Feb-24 14:09:44
29	573 Pd Sons 300µl HNO3 - 0.1%	4	0	22-Feb-24 14:14:50
30	573 Pd Sons 300µl HNO3 - 1%	4	0	22-Feb-24 14:19:56
31	573 Pd Sons 300µl HNO3 - 10%	4	0	22-Feb-24 14:25:03
32	Rinse HNO3 2%	4	0	22-Feb-24 14:30:10
33	Rinse HNO3 2%	4	0	22-Feb-24 14:35:17
34	BL 572 - 573	4	0	22-Feb-24 14:40:24
35	BL 573	4	0	22-Feb-24 14:45:32
36	BL H2O	4	0	22-Feb-24 14:50:40
37	Rinse HNO3 2%	4	0	22-Feb-24 14:55:46
38	M42 10 ppb 1500µL HNO3 16.02.2024 mtr	4	0	22-Feb-24 15:00:53
39	Rinse HNO3 2%	4	0	22-Feb-24 15:06:03
40	pure water	4	0	22-Feb-24 15:11:10

User name:

THERMOF-6VBH8PN\ICPMS-User
 THERMOF-6VBH8PN\ICPMS-User
 THERMOF-6VBH8PN\ICPMS-User
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 THERMOF-6VBH8PN\ICPMS-User
 THERMOF-6VBH8PN\ICPMS-User

User name:

[illegible]

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 1

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 11:51:17

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.052 ppb	1.8 %
53Cr (mp_KED)	0.069 ppb	2.7 %
55Mn (mp_KED)	0.003 ppb	3.2 %
56Fe (mp_KED)	0.517 ppb	0.5 %
57Fe (mp_KED)	0.520 ppb	0.6 %
59Co (mp_KED)	-0.001 ppb	5.7 %
60Ni (mp_KED)	0.018 ppb	4.9 %
61Ni (mp_KED)	0.024 ppb	20.3 %
62Ni (mp_KED)	0.018 ppb	14.0 %
63Cu (mp_KED)	0.003 ppb	18.3 %
65Cu (mp_KED)	0.002 ppb	21.5 %
88Sr (mp_KED)	0.000 ppb	23.3 %
105Pd (mp_KED)	-0.136 ppb	2.8 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.052 ppb	5,426 cps	1.7 %
53Cr (mp_KED)	0.069 ppb	1,004 cps	2.2 %
55Mn (mp_KED)	0.003 ppb	446 cps	1.6 %
56Fe (mp_KED)	0.517 ppb	74,762 cps	0.3 %
57Fe (mp_KED)	0.520 ppb	1,612 cps	0.5 %
59Co (mp_KED)	-0.001 ppb	365 cps	1.9 %
60Ni (mp_KED)	0.018 ppb	1,494 cps	2.0 %
61Ni (mp_KED)	0.024 ppb	71 cps	10.5 %
62Ni (mp_KED)	0.018 ppb	219 cps	5.7 %
63Cu (mp_KED)	0.003 ppb	2,205 cps	2.1 %
65Cu (mp_KED)	0.002 ppb	1,086 cps	2.0 %
88Sr (mp_KED)	0.000 ppb	97 cps	11.1 %
105Pd (mp_KED)	-0.136 ppb	5,986 cps	5.1 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 2

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 11:56:24

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.051 ppb	3.1 %
53Cr (mp_KED)	0.068 ppb	0.6 %
55Mn (mp_KED)	0.003 ppb	5.9 %
56Fe (mp_KED)	0.529 ppb	0.7 %
57Fe (mp_KED)	0.525 ppb	3.3 %
59Co (mp_KED)	-0.001 ppb	22.1 %
60Ni (mp_KED)	0.018 ppb	11.9 %
61Ni (mp_KED)	0.029 ppb	26.1 %
62Ni (mp_KED)	0.019 ppb	8.4 %
63Cu (mp_KED)	0.003 ppb	40.2 %
65Cu (mp_KED)	0.004 ppb	16.5 %
88Sr (mp_KED)	0.000 ppb	16.8 %
105Pd (mp_KED)	-0.143 ppb	1.3 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.051 ppb	5,376 cps	2.9 %
53Cr (mp_KED)	0.068 ppb	994 cps	0.5 %
55Mn (mp_KED)	0.003 ppb	475 cps	3.1 %
56Fe (mp_KED)	0.529 ppb	76,073 cps	0.5 %
57Fe (mp_KED)	0.525 ppb	1,626 cps	2.7 %
59Co (mp_KED)	-0.001 ppb	362 cps	7.5 %
60Ni (mp_KED)	0.018 ppb	1,478 cps	4.8 %
61Ni (mp_KED)	0.029 ppb	78 cps	14.5 %
62Ni (mp_KED)	0.019 ppb	225 cps	3.6 %
63Cu (mp_KED)	0.003 ppb	2,191 cps	4.3 %
65Cu (mp_KED)	0.004 ppb	1,151 cps	2.4 %
88Sr (mp_KED)	0.000 ppb	88 cps	10.4 %
105Pd (mp_KED)	-0.143 ppb	5,383 cps	2.8 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 3

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 12:01:31

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.052 ppb	0.7 %
53Cr (mp_KED)	0.067 ppb	4.6 %
55Mn (mp_KED)	0.003 ppb	13.5 %
56Fe (mp_KED)	0.533 ppb	0.7 %
57Fe (mp_KED)	0.532 ppb	3.7 %
59Co (mp_KED)	-0.001 ppb	9.3 %
60Ni (mp_KED)	0.019 ppb	1.8 %
61Ni (mp_KED)	0.025 ppb	18.9 %
62Ni (mp_KED)	0.019 ppb	16.5 %
63Cu (mp_KED)	0.002 ppb	15.5 %
65Cu (mp_KED)	0.002 ppb	46.2 %
88Sr (mp_KED)	0.000 ppb	16.2 %
105Pd (mp_KED)	-0.144 ppb	1.3 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.052 ppb	5,478 cps	0.7 %
53Cr (mp_KED)	0.067 ppb	979 cps	3.8 %
55Mn (mp_KED)	0.003 ppb	472 cps	7.1 %
56Fe (mp_KED)	0.533 ppb	76,498 cps	0.5 %
57Fe (mp_KED)	0.532 ppb	1,643 cps	3.1 %
59Co (mp_KED)	-0.001 ppb	355 cps	3.4 %
60Ni (mp_KED)	0.019 ppb	1,521 cps	0.8 %
61Ni (mp_KED)	0.025 ppb	72 cps	9.9 %
62Ni (mp_KED)	0.019 ppb	229 cps	7.2 %
63Cu (mp_KED)	0.002 ppb	2,169 cps	1.5 %
65Cu (mp_KED)	0.002 ppb	1,058 cps	3.2 %
88Sr (mp_KED)	0.000 ppb	92 cps	9.1 %
105Pd (mp_KED)	-0.144 ppb	5,309 cps	2.8 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 4

Analysis name: M28RuPdRe 0 ppb 300µL HNO3 30.10.2023 mtr

Analysis started at: 22-Feb-24 12:06:38

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.005 ppb	7.7 %
53Cr (mp_KED)	0.016 ppb	7.0 %
55Mn (mp_KED)	0.000 ppb	47.0 %
56Fe (mp_KED)	0.106 ppb	3.8 %
57Fe (mp_KED)	0.100 ppb	8.8 %
59Co (mp_KED)	-0.001 ppb	6.2 %
60Ni (mp_KED)	0.007 ppb	9.6 %
61Ni (mp_KED)	0.010 ppb	54.5 %
62Ni (mp_KED)	0.005 ppb	43.0 %
63Cu (mp_KED)	0.024 ppb	2.4 %
65Cu (mp_KED)	0.024 ppb	2.9 %
88Sr (mp_KED)	0.000 ppb	78.4 %
105Pd (mp_KED)	-0.190 ppb	33.8 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.005 ppb	834 cps	4.1 %
53Cr (mp_KED)	0.016 ppb	380 cps	3.6 %
55Mn (mp_KED)	0.000 ppb	258 cps	6.0 %
56Fe (mp_KED)	0.106 ppb	31,303 cps	1.4 %
57Fe (mp_KED)	0.100 ppb	522 cps	4.4 %
59Co (mp_KED)	-0.001 ppb	303 cps	3.7 %
60Ni (mp_KED)	0.007 ppb	1,105 cps	1.9 %
61Ni (mp_KED)	0.010 ppb	49 cps	16.4 %
62Ni (mp_KED)	0.005 ppb	157 cps	7.5 %
63Cu (mp_KED)	0.024 ppb	4,097 cps	1.3 %
65Cu (mp_KED)	0.024 ppb	2,022 cps	1.5 %
88Sr (mp_KED)	0.000 ppb	162 cps	9.1 %
105Pd (mp_KED)	-0.190 ppb	1,606 cps	323.9 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 5

Analysis name: M28RuPdRe 1 ppb 300µL HNO3 30.10.2023 mtr

Analysis started at: 22-Feb-24 12:11:44

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.988 ppb	0.6 %
53Cr (mp_KED)	1.011 ppb	0.8 %
55Mn (mp_KED)	0.980 ppb	0.6 %
56Fe (mp_KED)	1.146 ppb	0.9 %
57Fe (mp_KED)	1.156 ppb	1.3 %
59Co (mp_KED)	0.971 ppb	0.6 %
60Ni (mp_KED)	1.003 ppb	1.3 %
61Ni (mp_KED)	1.015 ppb	1.6 %
62Ni (mp_KED)	1.010 ppb	1.1 %
63Cu (mp_KED)	1.022 ppb	0.2 %
65Cu (mp_KED)	1.022 ppb	1.0 %
88Sr (mp_KED)	0.945 ppb	0.7 %
105Pd (mp_KED)	0.514 ppb	1.6 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.988 ppb	97,024 cps	0.6 %
53Cr (mp_KED)	1.011 ppb	12,238 cps	0.8 %
55Mn (mp_KED)	0.980 ppb	79,847 cps	0.6 %
56Fe (mp_KED)	1.146 ppb	141,317 cps	0.8 %
57Fe (mp_KED)	1.156 ppb	3,265 cps	1.2 %
59Co (mp_KED)	0.971 ppb	136,870 cps	0.6 %
60Ni (mp_KED)	1.003 ppb	34,151 cps	1.2 %
61Ni (mp_KED)	1.015 ppb	1,564 cps	1.5 %
62Ni (mp_KED)	1.010 ppb	5,257 cps	1.1 %
63Cu (mp_KED)	1.022 ppb	93,055 cps	0.2 %
65Cu (mp_KED)	1.022 ppb	45,922 cps	0.9 %
88Sr (mp_KED)	0.945 ppb	105,541 cps	0.7 %
105Pd (mp_KED)	0.514 ppb	58,547 cps	1.1 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 6

Analysis name: M28RuPdRe 5 ppb 300µL HNO3 30.10.2023 mtr

Analysis started at: 22-Feb-24 12:16:51

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	4.851 ppb	0.4 %
53Cr (mp_KED)	4.894 ppb	0.6 %
55Mn (mp_KED)	4.796 ppb	0.7 %
56Fe (mp_KED)	5.513 ppb	0.5 %
57Fe (mp_KED)	5.535 ppb	0.9 %
59Co (mp_KED)	4.815 ppb	0.3 %
60Ni (mp_KED)	4.958 ppb	0.4 %
61Ni (mp_KED)	5.009 ppb	1.0 %
62Ni (mp_KED)	4.956 ppb	0.7 %
63Cu (mp_KED)	4.942 ppb	0.7 %
65Cu (mp_KED)	4.955 ppb	0.4 %
88Sr (mp_KED)	4.679 ppb	0.6 %
105Pd (mp_KED)	3.877 ppb	0.7 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	4.851 ppb	474,993 cps	0.4 %
53Cr (mp_KED)	4.894 ppb	58,530 cps	0.6 %
55Mn (mp_KED)	4.796 ppb	389,800 cps	0.7 %
56Fe (mp_KED)	5.513 ppb	602,954 cps	0.5 %
57Fe (mp_KED)	5.535 ppb	14,638 cps	0.9 %
59Co (mp_KED)	4.815 ppb	676,574 cps	0.3 %
60Ni (mp_KED)	4.958 ppb	165,274 cps	0.3 %
61Ni (mp_KED)	5.009 ppb	7,583 cps	1.0 %
62Ni (mp_KED)	4.956 ppb	25,284 cps	0.7 %
63Cu (mp_KED)	4.942 ppb	442,581 cps	0.7 %
65Cu (mp_KED)	4.955 ppb	218,786 cps	0.4 %
88Sr (mp_KED)	4.679 ppb	521,901 cps	0.6 %
105Pd (mp_KED)	3.877 ppb	330,333 cps	0.6 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 7

Analysis name: M28RuPdRe 10 ppb 300µL HNO3 30.10.2023 mtr

Analysis started at: 22-Feb-24 12:21:59

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	9.578 ppb	0.7 %
53Cr (mp_KED)	9.620 ppb	0.6 %
55Mn (mp_KED)	9.509 ppb	0.4 %
56Fe (mp_KED)	9.386 ppb	0.6 %
57Fe (mp_KED)	9.493 ppb	0.8 %
59Co (mp_KED)	9.451 ppb	0.8 %
60Ni (mp_KED)	9.676 ppb	0.6 %
61Ni (mp_KED)	9.727 ppb	0.7 %
62Ni (mp_KED)	9.717 ppb	0.8 %
63Cu (mp_KED)	9.677 ppb	0.9 %
65Cu (mp_KED)	9.659 ppb	0.9 %
88Sr (mp_KED)	9.320 ppb	1.1 %
105Pd (mp_KED)	4.847 ppb	0.8 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	9.578 ppb	937,469 cps	0.7 %
53Cr (mp_KED)	9.620 ppb	114,879 cps	0.6 %
55Mn (mp_KED)	9.509 ppb	772,664 cps	0.4 %
56Fe (mp_KED)	9.386 ppb	1,012,382 cps	0.6 %
57Fe (mp_KED)	9.493 ppb	24,919 cps	0.8 %
59Co (mp_KED)	9.451 ppb	1,327,730 cps	0.8 %
60Ni (mp_KED)	9.676 ppb	321,697 cps	0.6 %
61Ni (mp_KED)	9.727 ppb	14,695 cps	0.7 %
62Ni (mp_KED)	9.717 ppb	49,445 cps	0.8 %
63Cu (mp_KED)	9.677 ppb	864,718 cps	0.9 %
65Cu (mp_KED)	9.659 ppb	425,597 cps	0.9 %
88Sr (mp_KED)	9.320 ppb	1,039,403 cps	1.1 %
105Pd (mp_KED)	4.847 ppb	408,676 cps	0.8 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 8

Analysis name: M28RuPdRe 20 ppb 300µL HNO3 30.10.2023 mtr

Analysis started at: 22-Feb-24 12:27:07

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	18.993 ppb	0.3 %
53Cr (mp_KED)	19.100 ppb	0.3 %
55Mn (mp_KED)	18.856 ppb	0.5 %
56Fe (mp_KED)	18.848 ppb	0.4 %
57Fe (mp_KED)	18.992 ppb	0.9 %
59Co (mp_KED)	18.955 ppb	0.5 %
60Ni (mp_KED)	19.143 ppb	0.5 %
61Ni (mp_KED)	19.381 ppb	0.6 %
62Ni (mp_KED)	19.239 ppb	0.5 %
63Cu (mp_KED)	19.188 ppb	0.4 %
65Cu (mp_KED)	19.102 ppb	0.2 %
88Sr (mp_KED)	18.630 ppb	0.6 %
105Pd (mp_KED)	9.744 ppb	0.4 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	18.993 ppb	1,858,538 cps	0.3 %
53Cr (mp_KED)	19.100 ppb	227,891 cps	0.3 %
55Mn (mp_KED)	18.856 ppb	1,531,916 cps	0.5 %
56Fe (mp_KED)	18.848 ppb	2,012,572 cps	0.4 %
57Fe (mp_KED)	18.992 ppb	49,590 cps	0.9 %
59Co (mp_KED)	18.955 ppb	2,662,255 cps	0.5 %
60Ni (mp_KED)	19.143 ppb	635,592 cps	0.5 %
61Ni (mp_KED)	19.381 ppb	29,245 cps	0.6 %
62Ni (mp_KED)	19.239 ppb	97,771 cps	0.5 %
63Cu (mp_KED)	19.188 ppb	1,712,567 cps	0.4 %
65Cu (mp_KED)	19.102 ppb	840,715 cps	0.2 %
88Sr (mp_KED)	18.630 ppb	2,077,517 cps	0.6 %
105Pd (mp_KED)	9.744 ppb	804,525 cps	0.4 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 9

Analysis name: M28RuPdRe 50 ppb 300µL HNO3 30.10.2023 mtr

Analysis started at: 22-Feb-24 12:32:16

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	46.114 ppb	0.2 %
53Cr (mp_KED)	46.131 ppb	0.5 %
55Mn (mp_KED)	45.827 ppb	0.4 %
56Fe (mp_KED)	45.732 ppb	0.2 %
57Fe (mp_KED)	45.963 ppb	0.6 %
59Co (mp_KED)	46.077 ppb	0.2 %
60Ni (mp_KED)	46.361 ppb	0.7 %
61Ni (mp_KED)	46.858 ppb	0.4 %
62Ni (mp_KED)	46.514 ppb	0.5 %
63Cu (mp_KED)	46.679 ppb	0.5 %
65Cu (mp_KED)	46.321 ppb	0.5 %
88Sr (mp_KED)	45.051 ppb	0.3 %
105Pd (mp_KED)	38.039 ppb	0.8 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	46.114 ppb	4,511,945 cps	0.2 %
53Cr (mp_KED)	46.131 ppb	550,166 cps	0.5 %
55Mn (mp_KED)	45.827 ppb	3,722,782 cps	0.4 %
56Fe (mp_KED)	45.732 ppb	4,854,464 cps	0.2 %
57Fe (mp_KED)	45.963 ppb	119,643 cps	0.6 %
59Co (mp_KED)	46.077 ppb	6,470,959 cps	0.2 %
60Ni (mp_KED)	46.361 ppb	1,538,046 cps	0.7 %
61Ni (mp_KED)	46.858 ppb	70,658 cps	0.4 %
62Ni (mp_KED)	46.514 ppb	236,192 cps	0.5 %
63Cu (mp_KED)	46.679 ppb	4,163,466 cps	0.5 %
65Cu (mp_KED)	46.321 ppb	2,037,212 cps	0.5 %
88Sr (mp_KED)	45.051 ppb	5,023,507 cps	0.3 %
105Pd (mp_KED)	38.039 ppb	3,091,299 cps	0.8 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 10

Analysis name: M28RuPdRe 100 ppb 300µL HNO3 30.10.2023 mtr

Analysis started at: 22-Feb-24 12:37:26

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	89.511 ppb	0.5 %
53Cr (mp_KED)	89.382 ppb	0.5 %
55Mn (mp_KED)	88.830 ppb	0.8 %
56Fe (mp_KED)	88.817 ppb	0.2 %
57Fe (mp_KED)	88.957 ppb	0.4 %
59Co (mp_KED)	88.829 ppb	0.3 %
60Ni (mp_KED)	90.204 ppb	0.2 %
61Ni (mp_KED)	89.696 ppb	0.6 %
62Ni (mp_KED)	90.100 ppb	0.7 %
63Cu (mp_KED)	89.585 ppb	0.3 %
65Cu (mp_KED)	89.603 ppb	0.2 %
88Sr (mp_KED)	88.296 ppb	0.8 %
105Pd (mp_KED)	83.441 ppb	0.1 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	89.511 ppb	8,757,709 cps	0.5 %
53Cr (mp_KED)	89.382 ppb	1,065,810 cps	0.5 %
55Mn (mp_KED)	88.830 ppb	7,216,041 cps	0.8 %
56Fe (mp_KED)	88.817 ppb	9,409,029 cps	0.2 %
57Fe (mp_KED)	88.957 ppb	231,315 cps	0.4 %
59Co (mp_KED)	88.829 ppb	12,474,564 cps	0.3 %
60Ni (mp_KED)	90.204 ppb	2,991,704 cps	0.2 %
61Ni (mp_KED)	89.696 ppb	135,223 cps	0.6 %
62Ni (mp_KED)	90.100 ppb	457,397 cps	0.7 %
63Cu (mp_KED)	89.585 ppb	7,988,626 cps	0.3 %
65Cu (mp_KED)	89.603 ppb	3,939,880 cps	0.2 %
88Sr (mp_KED)	88.296 ppb	9,845,526 cps	0.8 %
105Pd (mp_KED)	83.441 ppb	6,760,704 cps	0.1 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 13

Analysis name: M42 0 ppb 300µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 12:52:48

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.000 ppb	6.7 %
53Cr (mp_KED)	0.000 ppb	9.7 %
55Mn (mp_KED)	0.000 ppb	13.1 %
56Fe (mp_KED)	0.000 ppb	0.9 %
57Fe (mp_KED)	0.000 ppb	6.6 %
59Co (mp_KED)	0.000 ppb	5.3 %
60Ni (mp_KED)	0.000 ppb	3.2 %
61Ni (mp_KED)	0.000 ppb	22.8 %
62Ni (mp_KED)	0.000 ppb	5.2 %
63Cu (mp_KED)	0.000 ppb	1.7 %
65Cu (mp_KED)	0.000 ppb	3.9 %
88Sr (mp_KED)	0.000 ppb	12.0 %
105Pd (mp_KED)	0.000 ppb	4.7 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.000 ppb	386 cps	6.7 %
53Cr (mp_KED)	0.000 ppb	185 cps	9.7 %
55Mn (mp_KED)	0.000 ppb	225 cps	13.1 %
56Fe (mp_KED)	0.000 ppb	20,148 cps	0.9 %
57Fe (mp_KED)	0.000 ppb	262 cps	6.6 %
59Co (mp_KED)	0.000 ppb	485 cps	5.3 %
60Ni (mp_KED)	0.000 ppb	885 cps	3.2 %
61Ni (mp_KED)	0.000 ppb	34 cps	22.8 %
62Ni (mp_KED)	0.000 ppb	130 cps	5.2 %
63Cu (mp_KED)	0.000 ppb	1,958 cps	1.7 %
65Cu (mp_KED)	0.000 ppb	985 cps	3.9 %
88Sr (mp_KED)	0.000 ppb	143 cps	12.0 %
105Pd (mp_KED)	0.000 ppb	16,978 cps	4.7 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 14

Analysis name: M42 1 ppb 300µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 12:57:55

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.981 ppb	0.9 %
53Cr (mp_KED)	0.991 ppb	0.5 %
55Mn (mp_KED)	0.981 ppb	1.1 %
56Fe (mp_KED)	1.098 ppb	0.8 %
57Fe (mp_KED)	1.122 ppb	1.6 %
59Co (mp_KED)	0.968 ppb	0.8 %
60Ni (mp_KED)	0.993 ppb	0.7 %
61Ni (mp_KED)	1.008 ppb	0.3 %
62Ni (mp_KED)	1.005 ppb	1.4 %
63Cu (mp_KED)	0.983 ppb	0.6 %
65Cu (mp_KED)	0.983 ppb	0.6 %
88Sr (mp_KED)	0.965 ppb	0.8 %
105Pd (mp_KED)	0.885 ppb	0.6 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.981 ppb	96,392 cps	0.8 %
53Cr (mp_KED)	0.991 ppb	11,996 cps	0.5 %
55Mn (mp_KED)	0.981 ppb	79,889 cps	1.1 %
56Fe (mp_KED)	1.098 ppb	136,242 cps	0.7 %
57Fe (mp_KED)	1.122 ppb	3,177 cps	1.5 %
59Co (mp_KED)	0.968 ppb	136,454 cps	0.8 %
60Ni (mp_KED)	0.993 ppb	33,821 cps	0.7 %
61Ni (mp_KED)	1.008 ppb	1,553 cps	0.3 %
62Ni (mp_KED)	1.005 ppb	5,228 cps	1.4 %
63Cu (mp_KED)	0.983 ppb	89,628 cps	0.6 %
65Cu (mp_KED)	0.983 ppb	44,193 cps	0.5 %
88Sr (mp_KED)	0.965 ppb	107,718 cps	0.8 %
105Pd (mp_KED)	0.885 ppb	88,544 cps	0.5 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 15

Analysis name: M42 5 ppb 300µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 13:03:02

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	4.913 ppb	0.8 %
53Cr (mp_KED)	4.958 ppb	0.6 %
55Mn (mp_KED)	4.899 ppb	0.4 %
56Fe (mp_KED)	4.858 ppb	0.5 %
57Fe (mp_KED)	4.959 ppb	1.6 %
59Co (mp_KED)	4.881 ppb	0.5 %
60Ni (mp_KED)	4.984 ppb	0.8 %
61Ni (mp_KED)	5.056 ppb	0.8 %
62Ni (mp_KED)	4.983 ppb	0.4 %
63Cu (mp_KED)	4.972 ppb	0.2 %
65Cu (mp_KED)	4.952 ppb	0.4 %
88Sr (mp_KED)	4.858 ppb	0.8 %
105Pd (mp_KED)	4.720 ppb	0.6 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	4.913 ppb	481,029 cps	0.8 %
53Cr (mp_KED)	4.958 ppb	59,295 cps	0.6 %
55Mn (mp_KED)	4.899 ppb	398,203 cps	0.4 %
56Fe (mp_KED)	4.858 ppb	533,661 cps	0.5 %
57Fe (mp_KED)	4.959 ppb	13,141 cps	1.5 %
59Co (mp_KED)	4.881 ppb	685,962 cps	0.5 %
60Ni (mp_KED)	4.984 ppb	166,151 cps	0.8 %
61Ni (mp_KED)	5.056 ppb	7,654 cps	0.8 %
62Ni (mp_KED)	4.983 ppb	25,417 cps	0.4 %
63Cu (mp_KED)	4.972 ppb	445,246 cps	0.2 %
65Cu (mp_KED)	4.952 ppb	218,691 cps	0.4 %
88Sr (mp_KED)	4.858 ppb	541,857 cps	0.8 %
105Pd (mp_KED)	4.720 ppb	398,454 cps	0.6 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 16

Analysis name: M42 10 ppb 300µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 13:08:09

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	9.842 ppb	1.1 %
53Cr (mp_KED)	9.933 ppb	0.4 %
55Mn (mp_KED)	9.854 ppb	0.9 %
56Fe (mp_KED)	9.770 ppb	0.8 %
57Fe (mp_KED)	10.027 ppb	0.6 %
59Co (mp_KED)	9.792 ppb	0.8 %
60Ni (mp_KED)	9.955 ppb	0.9 %
61Ni (mp_KED)	10.036 ppb	0.6 %
62Ni (mp_KED)	9.976 ppb	1.1 %
63Cu (mp_KED)	9.966 ppb	0.6 %
65Cu (mp_KED)	9.963 ppb	0.9 %
88Sr (mp_KED)	9.694 ppb	0.9 %
105Pd (mp_KED)	7.938 ppb	0.5 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	9.842 ppb	963,228 cps	1.1 %
53Cr (mp_KED)	9.933 ppb	118,611 cps	0.4 %
55Mn (mp_KED)	9.854 ppb	800,646 cps	0.9 %
56Fe (mp_KED)	9.770 ppb	1,052,977 cps	0.8 %
57Fe (mp_KED)	10.027 ppb	26,305 cps	0.6 %
59Co (mp_KED)	9.792 ppb	1,375,543 cps	0.8 %
60Ni (mp_KED)	9.955 ppb	330,969 cps	0.9 %
61Ni (mp_KED)	10.036 ppb	15,161 cps	0.6 %
62Ni (mp_KED)	9.976 ppb	50,758 cps	1.1 %
63Cu (mp_KED)	9.966 ppb	890,479 cps	0.6 %
65Cu (mp_KED)	9.963 ppb	438,971 cps	0.9 %
88Sr (mp_KED)	9.694 ppb	1,081,046 cps	0.9 %
105Pd (mp_KED)	7.938 ppb	658,550 cps	0.5 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 17

Analysis name: M42 20 ppb 300µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 13:13:16

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	19.428 ppb	0.8 %
53Cr (mp_KED)	19.524 ppb	0.5 %
55Mn (mp_KED)	19.467 ppb	0.3 %
56Fe (mp_KED)	19.422 ppb	0.9 %
57Fe (mp_KED)	19.558 ppb	0.5 %
59Co (mp_KED)	19.504 ppb	0.4 %
60Ni (mp_KED)	19.615 ppb	0.4 %
61Ni (mp_KED)	19.773 ppb	0.6 %
62Ni (mp_KED)	19.741 ppb	0.5 %
63Cu (mp_KED)	19.589 ppb	0.7 %
65Cu (mp_KED)	19.592 ppb	0.4 %
88Sr (mp_KED)	19.490 ppb	0.5 %
105Pd (mp_KED)	12.510 ppb	0.4 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	19.428 ppb	1,901,134 cps	0.8 %
53Cr (mp_KED)	19.524 ppb	232,947 cps	0.5 %
55Mn (mp_KED)	19.467 ppb	1,581,594 cps	0.3 %
56Fe (mp_KED)	19.422 ppb	2,073,202 cps	0.9 %
57Fe (mp_KED)	19.558 ppb	51,061 cps	0.5 %
59Co (mp_KED)	19.504 ppb	2,739,361 cps	0.4 %
60Ni (mp_KED)	19.615 ppb	651,236 cps	0.4 %
61Ni (mp_KED)	19.773 ppb	29,836 cps	0.6 %
62Ni (mp_KED)	19.741 ppb	100,316 cps	0.5 %
63Cu (mp_KED)	19.589 ppb	1,748,348 cps	0.7 %
65Cu (mp_KED)	19.592 ppb	862,249 cps	0.4 %
88Sr (mp_KED)	19.490 ppb	2,173,384 cps	0.5 %
105Pd (mp_KED)	12.510 ppb	1,028,085 cps	0.4 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 18

Analysis name: M42 50 ppb 300µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 13:18:24

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	49.528 ppb	0.6 %
53Cr (mp_KED)	49.705 ppb	0.4 %
55Mn (mp_KED)	49.576 ppb	0.6 %
56Fe (mp_KED)	49.551 ppb	0.8 %
57Fe (mp_KED)	49.412 ppb	0.5 %
59Co (mp_KED)	49.420 ppb	0.7 %
60Ni (mp_KED)	49.504 ppb	0.2 %
61Ni (mp_KED)	49.638 ppb	0.7 %
62Ni (mp_KED)	49.741 ppb	0.3 %
63Cu (mp_KED)	49.684 ppb	0.6 %
65Cu (mp_KED)	49.543 ppb	0.3 %
88Sr (mp_KED)	49.731 ppb	0.3 %
105Pd (mp_KED)	47.778 ppb	0.5 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	49.528 ppb	4,845,955 cps	0.6 %
53Cr (mp_KED)	49.705 ppb	592,770 cps	0.4 %
55Mn (mp_KED)	49.576 ppb	4,027,355 cps	0.6 %
56Fe (mp_KED)	49.551 ppb	5,258,133 cps	0.8 %
57Fe (mp_KED)	49.412 ppb	128,603 cps	0.5 %
59Co (mp_KED)	49.420 ppb	6,940,457 cps	0.7 %
60Ni (mp_KED)	49.504 ppb	1,642,253 cps	0.2 %
61Ni (mp_KED)	49.638 ppb	74,848 cps	0.7 %
62Ni (mp_KED)	49.741 ppb	252,572 cps	0.3 %
63Cu (mp_KED)	49.684 ppb	4,431,382 cps	0.6 %
65Cu (mp_KED)	49.543 ppb	2,178,852 cps	0.3 %
88Sr (mp_KED)	49.731 ppb	5,545,396 cps	0.3 %
105Pd (mp_KED)	47.778 ppb	3,878,462 cps	0.5 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 19

Analysis name: M42 100 ppb 300µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 13:23:33

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	100.371 ppb	0.4 %
53Cr (mp_KED)	100.252 ppb	0.1 %
55Mn (mp_KED)	100.338 ppb	0.6 %
56Fe (mp_KED)	100.369 ppb	0.6 %
57Fe (mp_KED)	100.380 ppb	0.3 %
59Co (mp_KED)	100.416 ppb	0.6 %
60Ni (mp_KED)	100.330 ppb	0.5 %
61Ni (mp_KED)	100.220 ppb	0.3 %
62Ni (mp_KED)	100.185 ppb	0.3 %
63Cu (mp_KED)	100.245 ppb	0.3 %
65Cu (mp_KED)	100.316 ppb	0.4 %
88Sr (mp_KED)	100.274 ppb	0.3 %
105Pd (mp_KED)	101.332 ppb	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	100.371 ppb	9,820,134 cps	0.4 %
53Cr (mp_KED)	100.252 ppb	1,195,395 cps	0.1 %
55Mn (mp_KED)	100.338 ppb	8,150,857 cps	0.6 %
56Fe (mp_KED)	100.369 ppb	10,630,193 cps	0.6 %
57Fe (mp_KED)	100.380 ppb	260,984 cps	0.3 %
59Co (mp_KED)	100.416 ppb	14,101,688 cps	0.6 %
60Ni (mp_KED)	100.330 ppb	3,327,468 cps	0.5 %
61Ni (mp_KED)	100.220 ppb	151,084 cps	0.3 %
62Ni (mp_KED)	100.185 ppb	508,578 cps	0.3 %
63Cu (mp_KED)	100.245 ppb	8,938,992 cps	0.3 %
65Cu (mp_KED)	100.316 ppb	4,410,807 cps	0.4 %
88Sr (mp_KED)	100.274 ppb	11,181,186 cps	0.3 %
105Pd (mp_KED)	101.332 ppb	8,206,712 cps	0.3 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 20

Analysis name: M42 10 ppb 1500µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 13:28:40

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	9.842 ppb	0.5 %
53Cr (mp_KED)	9.933 ppb	0.4 %
55Mn (mp_KED)	9.854 ppb	0.5 %
56Fe (mp_KED)	9.770 ppb	0.4 %
57Fe (mp_KED)	10.027 ppb	0.4 %
59Co (mp_KED)	9.792 ppb	0.5 %
60Ni (mp_KED)	9.955 ppb	0.2 %
61Ni (mp_KED)	10.036 ppb	0.9 %
62Ni (mp_KED)	9.976 ppb	1.0 %
63Cu (mp_KED)	9.966 ppb	0.4 %
65Cu (mp_KED)	9.963 ppb	0.4 %
88Sr (mp_KED)	9.694 ppb	0.5 %
105Pd (mp_KED)	7.938 ppb	0.6 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	9.842 ppb	969,872 cps	0.5 %
53Cr (mp_KED)	9.933 ppb	119,404 cps	0.4 %
55Mn (mp_KED)	9.854 ppb	802,589 cps	0.5 %
56Fe (mp_KED)	9.770 ppb	1,062,017 cps	0.4 %
57Fe (mp_KED)	10.027 ppb	26,228 cps	0.4 %
59Co (mp_KED)	9.792 ppb	1,385,060 cps	0.5 %
60Ni (mp_KED)	9.955 ppb	334,768 cps	0.2 %
61Ni (mp_KED)	10.036 ppb	15,309 cps	0.9 %
62Ni (mp_KED)	9.976 ppb	51,463 cps	1.0 %
63Cu (mp_KED)	9.966 ppb	902,929 cps	0.4 %
65Cu (mp_KED)	9.963 ppb	446,029 cps	0.4 %
88Sr (mp_KED)	9.694 ppb	1,093,472 cps	0.5 %
105Pd (mp_KED)	7.938 ppb	821,313 cps	0.6 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 21

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 13:33:51

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.050 ppb	1.1 %
53Cr (mp_KED)	0.048 ppb	7.9 %
55Mn (mp_KED)	0.005 ppb	15.6 %
56Fe (mp_KED)	0.471 ppb	1.3 %
57Fe (mp_KED)	0.502 ppb	2.4 %
59Co (mp_KED)	0.000 ppb	73.5 %
60Ni (mp_KED)	0.014 ppb	8.4 %
61Ni (mp_KED)	0.019 ppb	12.4 %
62Ni (mp_KED)	0.017 ppb	17.7 %
63Cu (mp_KED)	0.002 ppb	31.1 %
65Cu (mp_KED)	0.002 ppb	41.7 %
88Sr (mp_KED)	0.001 ppb	27.2 %
105Pd (mp_KED)	-0.036 ppb	19.1 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.050 ppb	5,296 cps	1.0 %
53Cr (mp_KED)	0.048 ppb	763 cps	6.0 %
55Mn (mp_KED)	0.005 ppb	608 cps	9.8 %
56Fe (mp_KED)	0.471 ppb	70,562 cps	0.9 %
57Fe (mp_KED)	0.502 ppb	1,561 cps	2.0 %
59Co (mp_KED)	0.000 ppb	538 cps	6.8 %
60Ni (mp_KED)	0.014 ppb	1,365 cps	2.9 %
61Ni (mp_KED)	0.019 ppb	64 cps	5.7 %
62Ni (mp_KED)	0.017 ppb	219 cps	7.1 %
63Cu (mp_KED)	0.002 ppb	2,155 cps	2.5 %
65Cu (mp_KED)	0.002 ppb	1,076 cps	2.9 %
88Sr (mp_KED)	0.001 ppb	287 cps	13.5 %
105Pd (mp_KED)	-0.036 ppb	17,551 cps	3.9 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 22

Analysis name: RZE-011 - 0.1mol/L KOH 1.7V vs RHE 48h 5.8ml - 10%

Analysis started at: 22-Feb-24 13:39:00

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.371 ppb	1.3 %
53Cr (mp_KED)	0.447 ppb	1.6 %
55Mn (mp_KED)	0.411 ppb	1.2 %
56Fe (mp_KED)	4.164 ppb	2.4 %
57Fe (mp_KED)	3.624 ppb	1.7 %
59Co (mp_KED)	0.140 ppb	1.1 %
60Ni (mp_KED)	0.406 ppb	1.5 %
61Ni (mp_KED)	0.462 ppb	1.4 %
62Ni (mp_KED)	0.482 ppb	1.5 %
63Cu (mp_KED)	20.865 ppb	0.6 %
65Cu (mp_KED)	20.326 ppb	0.3 %
88Sr (mp_KED)	0.452 ppb	0.4 %
105Pd (mp_KED)	-0.090 ppb	1.8 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.371 ppb	36,931 cps	1.3 %
53Cr (mp_KED)	0.447 ppb	5,554 cps	1.5 %
55Mn (mp_KED)	0.411 ppb	33,710 cps	1.2 %
56Fe (mp_KED)	4.164 ppb	464,281 cps	2.3 %
57Fe (mp_KED)	3.624 ppb	9,646 cps	1.6 %
59Co (mp_KED)	0.140 ppb	20,287 cps	1.1 %
60Ni (mp_KED)	0.406 ppb	14,502 cps	1.4 %
61Ni (mp_KED)	0.462 ppb	738 cps	1.4 %
62Ni (mp_KED)	0.482 ppb	2,611 cps	1.4 %
63Cu (mp_KED)	20.865 ppb	1,888,121 cps	0.6 %
65Cu (mp_KED)	20.326 ppb	908,877 cps	0.3 %
88Sr (mp_KED)	0.452 ppb	51,140 cps	0.4 %
105Pd (mp_KED)	-0.090 ppb	12,074 cps	1.4 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 23

Analysis name: RZE-011 - 0.1mol/L KOH 1.7V vs RHE 48h 5.8ml - 97%

Analysis started at: 22-Feb-24 13:44:08

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.676 ppb	0.4 %
53Cr (mp_KED)	0.750 ppb	1.5 %
55Mn (mp_KED)	0.752 ppb	0.7 %
56Fe (mp_KED)	5.184 ppb	5.0 %
57Fe (mp_KED)	5.734 ppb	0.7 %
59Co (mp_KED)	0.252 ppb	0.9 %
60Ni (mp_KED)	2.081 ppb	0.6 %
61Ni (mp_KED)	2.182 ppb	2.1 %
62Ni (mp_KED)	2.345 ppb	1.3 %
63Cu (mp_KED)	34.318 ppb	0.4 %
65Cu (mp_KED)	32.999 ppb	0.4 %
88Sr (mp_KED)	0.644 ppb	0.7 %
105Pd (mp_KED)	-0.176 ppb	2.1 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.676 ppb	66,972 cps	0.4 %
53Cr (mp_KED)	0.750 ppb	9,191 cps	1.4 %
55Mn (mp_KED)	0.752 ppb	61,471 cps	0.7 %
56Fe (mp_KED)	5.184 ppb	573,048 cps	4.8 %
57Fe (mp_KED)	5.734 ppb	15,112 cps	0.7 %
59Co (mp_KED)	0.252 ppb	36,074 cps	0.8 %
60Ni (mp_KED)	2.081 ppb	70,669 cps	0.6 %
61Ni (mp_KED)	2.182 ppb	3,356 cps	2.1 %
62Ni (mp_KED)	2.345 ppb	12,198 cps	1.3 %
63Cu (mp_KED)	34.318 ppb	3,104,240 cps	0.4 %
65Cu (mp_KED)	32.999 ppb	1,474,951 cps	0.4 %
88Sr (mp_KED)	0.644 ppb	72,798 cps	0.7 %
105Pd (mp_KED)	-0.176 ppb	3,466 cps	10.7 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 24

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 13:49:15

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.090 ppb	0.5 %
53Cr (mp_KED)	0.081 ppb	8.6 %
55Mn (mp_KED)	0.088 ppb	1.6 %
56Fe (mp_KED)	0.868 ppb	0.8 %
57Fe (mp_KED)	0.808 ppb	1.8 %
59Co (mp_KED)	0.034 ppb	3.1 %
60Ni (mp_KED)	0.034 ppb	8.6 %
61Ni (mp_KED)	0.037 ppb	12.4 %
62Ni (mp_KED)	0.035 ppb	14.1 %
63Cu (mp_KED)	2.074 ppb	1.8 %
65Cu (mp_KED)	1.948 ppb	2.3 %
88Sr (mp_KED)	0.000 ppb	194.4 %
105Pd (mp_KED)	-0.084 ppb	6.0 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.090 ppb	9,287 cps	0.5 %
53Cr (mp_KED)	0.081 ppb	1,153 cps	7.2 %
55Mn (mp_KED)	0.088 ppb	7,368 cps	1.5 %
56Fe (mp_KED)	0.868 ppb	112,854 cps	0.6 %
57Fe (mp_KED)	0.808 ppb	2,353 cps	1.6 %
59Co (mp_KED)	0.034 ppb	5,262 cps	2.8 %
60Ni (mp_KED)	0.034 ppb	2,025 cps	4.8 %
61Ni (mp_KED)	0.037 ppb	92 cps	7.7 %
62Ni (mp_KED)	0.035 ppb	311 cps	8.1 %
63Cu (mp_KED)	2.074 ppb	189,490 cps	1.8 %
65Cu (mp_KED)	1.948 ppb	88,006 cps	2.2 %
88Sr (mp_KED)	0.000 ppb	151 cps	7.9 %
105Pd (mp_KED)	-0.084 ppb	12,665 cps	4.0 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 25

Analysis name: RZE-021 - 0.1mol/L KOH 1.7V vs RHE 24h 1.4ml H₂O compartment - 10%

Analysis started at: 22-Feb-24 13:54:22

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.983 ppb	0.4 %
53Cr (mp_KED)	1.052 ppb	0.4 %
55Mn (mp_KED)	0.549 ppb	0.4 %
56Fe (mp_KED)	2.606 ppb	3.0 %
57Fe (mp_KED)	2.113 ppb	1.1 %
59Co (mp_KED)	0.147 ppb	0.9 %
60Ni (mp_KED)	0.555 ppb	0.6 %
61Ni (mp_KED)	0.593 ppb	2.3 %
62Ni (mp_KED)	0.612 ppb	1.2 %
63Cu (mp_KED)	12.415 ppb	0.6 %
65Cu (mp_KED)	12.009 ppb	0.7 %
88Sr (mp_KED)	0.243 ppb	0.6 %
105Pd (mp_KED)	-0.076 ppb	6.3 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.983 ppb	97,183 cps	0.4 %
53Cr (mp_KED)	1.052 ppb	12,812 cps	0.4 %
55Mn (mp_KED)	0.549 ppb	44,897 cps	0.4 %
56Fe (mp_KED)	2.606 ppb	298,118 cps	2.8 %
57Fe (mp_KED)	2.113 ppb	5,733 cps	1.0 %
59Co (mp_KED)	0.147 ppb	21,287 cps	0.9 %
60Ni (mp_KED)	0.555 ppb	19,522 cps	0.6 %
61Ni (mp_KED)	0.593 ppb	937 cps	2.2 %
62Ni (mp_KED)	0.612 ppb	3,280 cps	1.1 %
63Cu (mp_KED)	12.415 ppb	1,124,277 cps	0.6 %
65Cu (mp_KED)	12.009 ppb	537,412 cps	0.7 %
88Sr (mp_KED)	0.243 ppb	27,560 cps	0.6 %
105Pd (mp_KED)	-0.076 ppb	13,546 cps	3.6 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 26

Analysis name: RZE-021 - 0.1mol/L KOH 1.7V vs RHE 24h 1.4ml H2O compartment - 50%

Analysis started at: 22-Feb-24 13:59:29

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	2.587 ppb	3.9 %
53Cr (mp_KED)	2.985 ppb	0.6 %
55Mn (mp_KED)	1.304 ppb	0.3 %
56Fe (mp_KED)	6.362 ppb	0.9 %
57Fe (mp_KED)	6.445 ppb	0.4 %
59Co (mp_KED)	0.294 ppb	0.7 %
60Ni (mp_KED)	1.238 ppb	0.3 %
61Ni (mp_KED)	1.514 ppb	3.2 %
62Ni (mp_KED)	1.974 ppb	3.0 %
63Cu (mp_KED)	21.828 ppb	0.6 %
65Cu (mp_KED)	21.444 ppb	0.8 %
88Sr (mp_KED)	0.472 ppb	1.7 %
105Pd (mp_KED)	-0.157 ppb	48.1 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	2.587 ppb	255,198 cps	3.9 %
53Cr (mp_KED)	2.985 ppb	36,016 cps	0.6 %
55Mn (mp_KED)	1.304 ppb	106,408 cps	0.3 %
56Fe (mp_KED)	6.362 ppb	698,664 cps	0.8 %
57Fe (mp_KED)	6.445 ppb	16,951 cps	0.4 %
59Co (mp_KED)	0.294 ppb	42,017 cps	0.7 %
60Ni (mp_KED)	1.238 ppb	42,419 cps	0.3 %
61Ni (mp_KED)	1.514 ppb	2,339 cps	3.2 %
62Ni (mp_KED)	1.974 ppb	10,290 cps	3.0 %
63Cu (mp_KED)	21.828 ppb	1,975,227 cps	0.6 %
65Cu (mp_KED)	21.444 ppb	958,801 cps	0.8 %
88Sr (mp_KED)	0.472 ppb	53,329 cps	1.7 %
105Pd (mp_KED)	-0.157 ppb	5,324 cps	143.1 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 27

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 14:04:37

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.080 ppb	1.9 %
53Cr (mp_KED)	0.071 ppb	3.6 %
55Mn (mp_KED)	0.072 ppb	2.2 %
56Fe (mp_KED)	0.890 ppb	1.6 %
57Fe (mp_KED)	0.811 ppb	1.9 %
59Co (mp_KED)	0.070 ppb	0.8 %
60Ni (mp_KED)	0.044 ppb	3.5 %
61Ni (mp_KED)	0.053 ppb	33.1 %
62Ni (mp_KED)	0.045 ppb	8.7 %
63Cu (mp_KED)	0.750 ppb	3.5 %
65Cu (mp_KED)	0.708 ppb	3.0 %
88Sr (mp_KED)	0.000 ppb	268.4 %
105Pd (mp_KED)	-0.119 ppb	2.8 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.080 ppb	8,251 cps	1.8 %
53Cr (mp_KED)	0.071 ppb	1,040 cps	3.0 %
55Mn (mp_KED)	0.072 ppb	6,090 cps	2.1 %
56Fe (mp_KED)	0.890 ppb	115,166 cps	1.3 %
57Fe (mp_KED)	0.811 ppb	2,361 cps	1.7 %
59Co (mp_KED)	0.070 ppb	10,391 cps	0.8 %
60Ni (mp_KED)	0.044 ppb	2,386 cps	2.2 %
61Ni (mp_KED)	0.053 ppb	116 cps	23.2 %
62Ni (mp_KED)	0.045 ppb	366 cps	5.5 %
63Cu (mp_KED)	0.750 ppb	69,764 cps	3.4 %
65Cu (mp_KED)	0.708 ppb	32,627 cps	2.9 %
88Sr (mp_KED)	0.000 ppb	147 cps	4.3 %
105Pd (mp_KED)	-0.119 ppb	9,155 cps	3.7 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 28

Analysis name: 573 Pd Sons 300µl HNO₃ - 0.01%

Analysis started at: 22-Feb-24 14:09:44

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.010 ppb	2.6 %
53Cr (mp_KED)	0.000 ppb	1,514.5 %
55Mn (mp_KED)	0.065 ppb	1.5 %
56Fe (mp_KED)	0.096 ppb	2.0 %
57Fe (mp_KED)	0.025 ppb	34.8 %
59Co (mp_KED)	0.120 ppb	1.1 %
60Ni (mp_KED)	0.035 ppb	3.0 %
61Ni (mp_KED)	0.031 ppb	8.4 %
62Ni (mp_KED)	0.030 ppb	5.0 %
63Cu (mp_KED)	0.499 ppb	3.4 %
65Cu (mp_KED)	0.474 ppb	4.1 %
88Sr (mp_KED)	0.001 ppb	18.8 %
105Pd (mp_KED)	62.848 ppb	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.010 ppb	1,403 cps	1.9 %
53Cr (mp_KED)	0.000 ppb	187 cps	12.3 %
55Mn (mp_KED)	0.065 ppb	5,501 cps	1.4 %
56Fe (mp_KED)	0.096 ppb	30,570 cps	0.7 %
57Fe (mp_KED)	0.025 ppb	325 cps	6.9 %
59Co (mp_KED)	0.120 ppb	17,415 cps	1.0 %
60Ni (mp_KED)	0.035 ppb	2,057 cps	1.7 %
61Ni (mp_KED)	0.031 ppb	83 cps	4.9 %
62Ni (mp_KED)	0.030 ppb	288 cps	2.7 %
63Cu (mp_KED)	0.499 ppb	47,082 cps	3.3 %
65Cu (mp_KED)	0.474 ppb	22,183 cps	3.9 %
88Sr (mp_KED)	0.001 ppb	282 cps	9.1 %
105Pd (mp_KED)	62.848 ppb	6,355,953 cps	0.3 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 29

Analysis name: 573 Pd Sons 300µl HNO₃ - 0.1%

Analysis started at: 22-Feb-24 14:14:50

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.022 ppb	1.3 %
53Cr (mp_KED)	0.004 ppb	7.0 %
55Mn (mp_KED)	0.061 ppb	2.0 %
56Fe (mp_KED)	0.179 ppb	1.0 %
57Fe (mp_KED)	0.115 ppb	4.9 %
59Co (mp_KED)	0.567 ppb	0.9 %
60Ni (mp_KED)	0.051 ppb	1.5 %
61Ni (mp_KED)	0.057 ppb	9.0 %
62Ni (mp_KED)	0.047 ppb	10.3 %
63Cu (mp_KED)	0.373 ppb	2.8 %
65Cu (mp_KED)	0.355 ppb	2.1 %
88Sr (mp_KED)	0.011 ppb	2.3 %
105Pd (mp_KED)	682.873 ppb	0.8 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.022 ppb	2,602 cps	1.1 %
53Cr (mp_KED)	0.004 ppb	228 cps	1.3 %
55Mn (mp_KED)	0.061 ppb	5,162 cps	1.9 %
56Fe (mp_KED)	0.179 ppb	39,449 cps	0.5 %
57Fe (mp_KED)	0.115 ppb	559 cps	2.6 %
59Co (mp_KED)	0.567 ppb	80,677 cps	0.9 %
60Ni (mp_KED)	0.051 ppb	2,593 cps	1.0 %
61Ni (mp_KED)	0.057 ppb	122 cps	6.4 %
62Ni (mp_KED)	0.047 ppb	371 cps	6.7 %
63Cu (mp_KED)	0.373 ppb	35,697 cps	2.6 %
65Cu (mp_KED)	0.355 ppb	16,878 cps	2.0 %
88Sr (mp_KED)	0.011 ppb	1,359 cps	2.1 %
105Pd (mp_KED)	682.873 ppb	68,851,914 cps	0.8 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 30

Analysis name: 573 Pd Sons 300µl HNO₃ - 1%

Analysis started at: 22-Feb-24 14:19:56

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.177 ppb	1.5 %
53Cr (mp_KED)	0.074 ppb	3.5 %
55Mn (mp_KED)	0.060 ppb	1.8 %
56Fe (mp_KED)	0.385 ppb	1.0 %
57Fe (mp_KED)	0.316 ppb	3.4 %
59Co (mp_KED)	5.607 ppb	0.4 %
60Ni (mp_KED)	0.193 ppb	1.7 %
61Ni (mp_KED)	0.202 ppb	4.7 %
62Ni (mp_KED)	0.196 ppb	4.9 %
63Cu (mp_KED)	0.348 ppb	1.0 %
65Cu (mp_KED)	0.339 ppb	0.6 %
88Sr (mp_KED)	0.110 ppb	1.1 %
105Pd (mp_KED)	7,843.177 ppb	1.0 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.177 ppb	17,844 cps	1.5 %
53Cr (mp_KED)	0.074 ppb	1,077 cps	2.9 %
55Mn (mp_KED)	0.060 ppb	5,133 cps	1.7 %
56Fe (mp_KED)	0.385 ppb	61,327 cps	0.7 %
57Fe (mp_KED)	0.316 ppb	1,079 cps	2.6 %
59Co (mp_KED)	5.607 ppb	793,265 cps	0.4 %
60Ni (mp_KED)	0.193 ppb	7,379 cps	1.5 %
61Ni (mp_KED)	0.202 ppb	343 cps	4.2 %
62Ni (mp_KED)	0.196 ppb	1,141 cps	4.3 %
63Cu (mp_KED)	0.348 ppb	33,485 cps	0.9 %
65Cu (mp_KED)	0.339 ppb	16,138 cps	0.6 %
88Sr (mp_KED)	0.110 ppb	12,555 cps	1.1 %
105Pd (mp_KED)	7,843.177 ppb	790,580,834 cps	1.0 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 31

Analysis name: 573 Pd Sons 300µl HNO₃ - 10%

Analysis started at: 22-Feb-24 14:25:03

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	1.409 ppb	2.1 %
53Cr (mp_KED)	0.500 ppb	2.5 %
55Mn (mp_KED)	0.070 ppb	0.9 %
56Fe (mp_KED)	1.414 ppb	0.2 %
57Fe (mp_KED)	1.523 ppb	1.4 %
59Co (mp_KED)	36.409 ppb	0.7 %
60Ni (mp_KED)	1.001 ppb	0.6 %
61Ni (mp_KED)	1.005 ppb	0.7 %
62Ni (mp_KED)	1.007 ppb	2.5 %
63Cu (mp_KED)	0.800 ppb	0.6 %
65Cu (mp_KED)	0.782 ppb	0.9 %
88Sr (mp_KED)	0.617 ppb	0.6 %
105Pd (mp_KED)	49,674.243 ppb	0.4 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	1.409 ppb	139,238 cps	2.1 %
53Cr (mp_KED)	0.500 ppb	6,192 cps	2.4 %
55Mn (mp_KED)	0.070 ppb	5,893 cps	0.9 %
56Fe (mp_KED)	1.414 ppb	171,129 cps	0.1 %
57Fe (mp_KED)	1.523 ppb	4,205 cps	1.3 %
59Co (mp_KED)	36.409 ppb	5,148,676 cps	0.7 %
60Ni (mp_KED)	1.001 ppb	34,462 cps	0.6 %
61Ni (mp_KED)	1.005 ppb	1,565 cps	0.7 %
62Ni (mp_KED)	1.007 ppb	5,315 cps	2.4 %
63Cu (mp_KED)	0.800 ppb	74,295 cps	0.6 %
65Cu (mp_KED)	0.782 ppb	35,938 cps	0.8 %
88Sr (mp_KED)	0.617 ppb	69,702 cps	0.6 %
105Pd (mp_KED)	49,674.243 ppb	5,006,978,384 cps	0.4 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 32

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 14:30:10

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.095 ppb	7.0 %
53Cr (mp_KED)	0.060 ppb	7.0 %
55Mn (mp_KED)	0.056 ppb	1.1 %
56Fe (mp_KED)	0.687 ppb	2.0 %
57Fe (mp_KED)	0.658 ppb	3.0 %
59Co (mp_KED)	0.065 ppb	1.9 %
60Ni (mp_KED)	0.069 ppb	1.9 %
61Ni (mp_KED)	0.069 ppb	8.5 %
62Ni (mp_KED)	0.065 ppb	7.3 %
63Cu (mp_KED)	0.148 ppb	2.1 %
65Cu (mp_KED)	0.144 ppb	1.4 %
88Sr (mp_KED)	0.000 ppb	33.7 %
105Pd (mp_KED)	5.908 ppb	8.6 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.095 ppb	9,709 cps	6.7 %
53Cr (mp_KED)	0.060 ppb	908 cps	5.6 %
55Mn (mp_KED)	0.056 ppb	4,779 cps	1.1 %
56Fe (mp_KED)	0.687 ppb	93,587 cps	1.5 %
57Fe (mp_KED)	0.658 ppb	1,965 cps	2.6 %
59Co (mp_KED)	0.065 ppb	9,682 cps	1.8 %
60Ni (mp_KED)	0.069 ppb	3,198 cps	1.4 %
61Ni (mp_KED)	0.069 ppb	140 cps	6.4 %
62Ni (mp_KED)	0.065 ppb	469 cps	5.3 %
63Cu (mp_KED)	0.148 ppb	15,364 cps	1.8 %
65Cu (mp_KED)	0.144 ppb	7,418 cps	1.2 %
88Sr (mp_KED)	0.000 ppb	129 cps	4.2 %
105Pd (mp_KED)	5.908 ppb	616,638 cps	8.3 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 33

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 14:35:17

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.064 ppb	0.6 %
53Cr (mp_KED)	0.053 ppb	4.2 %
55Mn (mp_KED)	0.050 ppb	2.2 %
56Fe (mp_KED)	0.637 ppb	1.2 %
57Fe (mp_KED)	0.628 ppb	1.1 %
59Co (mp_KED)	0.076 ppb	1.9 %
60Ni (mp_KED)	0.096 ppb	2.1 %
61Ni (mp_KED)	0.101 ppb	7.2 %
62Ni (mp_KED)	0.089 ppb	1.1 %
63Cu (mp_KED)	0.117 ppb	2.3 %
65Cu (mp_KED)	0.112 ppb	2.1 %
88Sr (mp_KED)	0.000 ppb	39.1 %
105Pd (mp_KED)	1.500 ppb	5.6 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.064 ppb	6,710 cps	0.5 %
53Cr (mp_KED)	0.053 ppb	820 cps	3.2 %
55Mn (mp_KED)	0.050 ppb	4,321 cps	2.1 %
56Fe (mp_KED)	0.637 ppb	88,221 cps	0.9 %
57Fe (mp_KED)	0.628 ppb	1,888 cps	0.9 %
59Co (mp_KED)	0.076 ppb	11,219 cps	1.8 %
60Ni (mp_KED)	0.096 ppb	4,119 cps	1.7 %
61Ni (mp_KED)	0.101 ppb	189 cps	5.9 %
62Ni (mp_KED)	0.089 ppb	588 cps	0.8 %
63Cu (mp_KED)	0.117 ppb	12,536 cps	1.9 %
65Cu (mp_KED)	0.112 ppb	5,990 cps	1.7 %
88Sr (mp_KED)	0.000 ppb	131 cps	4.2 %
105Pd (mp_KED)	1.500 ppb	172,325 cps	4.9 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 34

Analysis name: BL 572 - 573

Analysis started at: 22-Feb-24 14:40:24

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.007 ppb	3.9 %
53Cr (mp_KED)	-0.003 ppb	36.1 %
55Mn (mp_KED)	0.041 ppb	1.4 %
56Fe (mp_KED)	0.028 ppb	6.2 %
57Fe (mp_KED)	0.021 ppb	36.5 %
59Co (mp_KED)	0.084 ppb	0.9 %
60Ni (mp_KED)	0.116 ppb	1.5 %
61Ni (mp_KED)	0.118 ppb	7.3 %
62Ni (mp_KED)	0.114 ppb	3.1 %
63Cu (mp_KED)	0.107 ppb	2.5 %
65Cu (mp_KED)	0.103 ppb	1.3 %
88Sr (mp_KED)	0.000 ppb	46.1 %
105Pd (mp_KED)	1.128 ppb	6.0 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.007 ppb	1,045 cps	2.5 %
53Cr (mp_KED)	-0.003 ppb	152 cps	7.9 %
55Mn (mp_KED)	0.041 ppb	3,549 cps	1.3 %
56Fe (mp_KED)	0.028 ppb	23,294 cps	0.8 %
57Fe (mp_KED)	0.021 ppb	316 cps	6.4 %
59Co (mp_KED)	0.084 ppb	12,424 cps	0.9 %
60Ni (mp_KED)	0.116 ppb	4,778 cps	1.2 %
61Ni (mp_KED)	0.118 ppb	215 cps	6.1 %
62Ni (mp_KED)	0.114 ppb	720 cps	2.6 %
63Cu (mp_KED)	0.107 ppb	11,634 cps	2.1 %
65Cu (mp_KED)	0.103 ppb	5,606 cps	1.0 %
88Sr (mp_KED)	0.000 ppb	162 cps	4.8 %
105Pd (mp_KED)	1.128 ppb	134,831 cps	5.1 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 35

Analysis name: BL 573

Analysis started at: 22-Feb-24 14:45:32

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.004 ppb	15.2 %
53Cr (mp_KED)	-0.005 ppb	20.1 %
55Mn (mp_KED)	0.036 ppb	1.2 %
56Fe (mp_KED)	0.011 ppb	13.1 %
57Fe (mp_KED)	0.001 ppb	933.7 %
59Co (mp_KED)	0.086 ppb	1.0 %
60Ni (mp_KED)	0.132 ppb	1.8 %
61Ni (mp_KED)	0.138 ppb	11.2 %
62Ni (mp_KED)	0.131 ppb	1.4 %
63Cu (mp_KED)	0.074 ppb	2.7 %
65Cu (mp_KED)	0.069 ppb	6.6 %
88Sr (mp_KED)	0.000 ppb	20.2 %
105Pd (mp_KED)	0.741 ppb	9.7 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.004 ppb	812 cps	7.9 %
53Cr (mp_KED)	-0.005 ppb	130 cps	8.6 %
55Mn (mp_KED)	0.036 ppb	3,139 cps	1.1 %
56Fe (mp_KED)	0.011 ppb	21,510 cps	0.7 %
57Fe (mp_KED)	0.001 ppb	263 cps	6.3 %
59Co (mp_KED)	0.086 ppb	12,585 cps	0.9 %
60Ni (mp_KED)	0.132 ppb	5,310 cps	1.5 %
61Ni (mp_KED)	0.138 ppb	244 cps	9.6 %
62Ni (mp_KED)	0.131 ppb	804 cps	1.2 %
63Cu (mp_KED)	0.074 ppb	8,646 cps	2.1 %
65Cu (mp_KED)	0.069 ppb	4,080 cps	4.9 %
88Sr (mp_KED)	0.000 ppb	175 cps	3.5 %
105Pd (mp_KED)	0.741 ppb	95,846 cps	7.5 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 36

Analysis name: BL H2O

Analysis started at: 22-Feb-24 14:50:40

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.002 ppb	10.3 %
53Cr (mp_KED)	-0.006 ppb	6.4 %
55Mn (mp_KED)	0.032 ppb	2.2 %
56Fe (mp_KED)	-0.034 ppb	2.9 %
57Fe (mp_KED)	-0.033 ppb	10.7 %
59Co (mp_KED)	0.091 ppb	1.3 %
60Ni (mp_KED)	0.156 ppb	2.6 %
61Ni (mp_KED)	0.160 ppb	5.4 %
62Ni (mp_KED)	0.139 ppb	4.8 %
63Cu (mp_KED)	0.053 ppb	0.7 %
65Cu (mp_KED)	0.050 ppb	3.2 %
88Sr (mp_KED)	0.000 ppb	173.1 %
105Pd (mp_KED)	-0.174 ppb	0.5 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.002 ppb	613 cps	3.8 %
53Cr (mp_KED)	-0.006 ppb	113 cps	4.1 %
55Mn (mp_KED)	0.032 ppb	2,844 cps	2.0 %
56Fe (mp_KED)	-0.034 ppb	16,672 cps	0.6 %
57Fe (mp_KED)	-0.033 ppb	175 cps	5.3 %
59Co (mp_KED)	0.091 ppb	13,354 cps	1.3 %
60Ni (mp_KED)	0.156 ppb	6,121 cps	2.2 %
61Ni (mp_KED)	0.160 ppb	278 cps	4.8 %
62Ni (mp_KED)	0.139 ppb	844 cps	4.1 %
63Cu (mp_KED)	0.053 ppb	6,787 cps	0.5 %
65Cu (mp_KED)	0.050 ppb	3,213 cps	2.2 %
88Sr (mp_KED)	0.000 ppb	131 cps	18.4 %
105Pd (mp_KED)	-0.174 ppb	3,661 cps	2.2 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 37

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 14:55:46

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.060 ppb	0.3 %
53Cr (mp_KED)	0.051 ppb	4.1 %
55Mn (mp_KED)	0.033 ppb	1.7 %
56Fe (mp_KED)	0.616 ppb	0.4 %
57Fe (mp_KED)	0.629 ppb	3.0 %
59Co (mp_KED)	0.087 ppb	1.7 %
60Ni (mp_KED)	0.176 ppb	1.2 %
61Ni (mp_KED)	0.181 ppb	5.9 %
62Ni (mp_KED)	0.172 ppb	3.9 %
63Cu (mp_KED)	0.064 ppb	1.4 %
65Cu (mp_KED)	0.061 ppb	0.8 %
88Sr (mp_KED)	0.000 ppb	91.3 %
105Pd (mp_KED)	0.361 ppb	4.9 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.060 ppb	6,285 cps	0.3 %
53Cr (mp_KED)	0.051 ppb	800 cps	3.2 %
55Mn (mp_KED)	0.033 ppb	2,896 cps	1.5 %
56Fe (mp_KED)	0.616 ppb	85,951 cps	0.3 %
57Fe (mp_KED)	0.629 ppb	1,890 cps	2.6 %
59Co (mp_KED)	0.087 ppb	12,837 cps	1.6 %
60Ni (mp_KED)	0.176 ppb	6,786 cps	1.1 %
61Ni (mp_KED)	0.181 ppb	311 cps	5.3 %
62Ni (mp_KED)	0.172 ppb	1,018 cps	3.4 %
63Cu (mp_KED)	0.064 ppb	7,747 cps	1.0 %
65Cu (mp_KED)	0.061 ppb	3,706 cps	0.6 %
88Sr (mp_KED)	0.000 ppb	137 cps	5.1 %
105Pd (mp_KED)	0.361 ppb	57,592 cps	3.1 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 38

Analysis name: M42 10 ppb 1500µL HNO3 16.02.2024 mtr

Analysis started at: 22-Feb-24 15:00:53

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	9.842 ppb	0.9 %
53Cr (mp_KED)	9.933 ppb	0.9 %
55Mn (mp_KED)	9.854 ppb	0.5 %
56Fe (mp_KED)	9.770 ppb	0.8 %
57Fe (mp_KED)	10.027 ppb	1.2 %
59Co (mp_KED)	9.792 ppb	0.5 %
60Ni (mp_KED)	9.955 ppb	1.0 %
61Ni (mp_KED)	10.036 ppb	1.2 %
62Ni (mp_KED)	9.976 ppb	1.2 %
63Cu (mp_KED)	9.966 ppb	0.7 %
65Cu (mp_KED)	9.963 ppb	1.0 %
88Sr (mp_KED)	9.694 ppb	0.7 %
105Pd (mp_KED)	7.938 ppb	0.4 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	9.842 ppb	1,137,358 cps	0.9 %
53Cr (mp_KED)	9.933 ppb	138,694 cps	0.9 %
55Mn (mp_KED)	9.854 ppb	979,256 cps	0.5 %
56Fe (mp_KED)	9.770 ppb	1,260,432 cps	0.8 %
57Fe (mp_KED)	10.027 ppb	30,833 cps	1.2 %
59Co (mp_KED)	9.792 ppb	1,601,718 cps	0.5 %
60Ni (mp_KED)	9.955 ppb	383,098 cps	1.0 %
61Ni (mp_KED)	10.036 ppb	17,566 cps	1.1 %
62Ni (mp_KED)	9.976 ppb	58,837 cps	1.2 %
63Cu (mp_KED)	9.966 ppb	1,016,764 cps	0.7 %
65Cu (mp_KED)	9.963 ppb	502,677 cps	1.0 %
88Sr (mp_KED)	9.694 ppb	1,272,277 cps	0.7 %
105Pd (mp_KED)	7.938 ppb	918,306 cps	0.4 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 39

Analysis name: Rinse HNO3 2%

Analysis started at: 22-Feb-24 15:06:03

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.051 ppb	2.4 %
53Cr (mp_KED)	0.041 ppb	9.9 %
55Mn (mp_KED)	0.023 ppb	1.6 %
56Fe (mp_KED)	0.493 ppb	1.9 %
57Fe (mp_KED)	0.524 ppb	2.3 %
59Co (mp_KED)	0.072 ppb	1.9 %
60Ni (mp_KED)	0.171 ppb	1.5 %
61Ni (mp_KED)	0.174 ppb	1.4 %
62Ni (mp_KED)	0.163 ppb	3.3 %
63Cu (mp_KED)	0.046 ppb	0.8 %
65Cu (mp_KED)	0.044 ppb	1.9 %
88Sr (mp_KED)	0.000 ppb	134.6 %
105Pd (mp_KED)	0.304 ppb	5.3 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.051 ppb	6,336 cps	2.3 %
53Cr (mp_KED)	0.041 ppb	786 cps	7.2 %
55Mn (mp_KED)	0.023 ppb	2,562 cps	1.4 %
56Fe (mp_KED)	0.493 ppb	86,467 cps	1.4 %
57Fe (mp_KED)	0.524 ppb	1,904 cps	1.9 %
59Co (mp_KED)	0.072 ppb	12,416 cps	1.8 %
60Ni (mp_KED)	0.171 ppb	7,600 cps	1.3 %
61Ni (mp_KED)	0.174 ppb	343 cps	1.2 %
62Ni (mp_KED)	0.163 ppb	1,112 cps	2.9 %
63Cu (mp_KED)	0.046 ppb	6,930 cps	0.5 %
65Cu (mp_KED)	0.044 ppb	3,332 cps	1.3 %
88Sr (mp_KED)	0.000 ppb	149 cps	17.7 %
105Pd (mp_KED)	0.304 ppb	57,973 cps	3.2 %

Sample Summary

Instrument Name: iCAP RQ

Analysis index: 40

Analysis name: pure water

Analysis started at: 22-Feb-24 15:11:10

User name: THERMOF-6VBH8PN\ICPMS-User

Category	Concentration average	Concentration RSD
52Cr (mp_KED)	0.004 ppb	5.9 %
53Cr (mp_KED)	-0.005 ppb	24.9 %
55Mn (mp_KED)	0.041 ppb	8.0 %
56Fe (mp_KED)	-0.050 ppb	2.2 %
57Fe (mp_KED)	-0.038 ppb	15.1 %
59Co (mp_KED)	0.074 ppb	1.1 %
60Ni (mp_KED)	0.534 ppb	9.6 %
61Ni (mp_KED)	0.537 ppb	10.0 %
62Ni (mp_KED)	0.524 ppb	8.6 %
63Cu (mp_KED)	0.159 ppb	8.7 %
65Cu (mp_KED)	0.157 ppb	8.5 %
88Sr (mp_KED)	0.017 ppb	10.4 %
105Pd (mp_KED)	-0.203 ppb	36.1 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (mp_KED)	0.004 ppb	886 cps	2.8 %
53Cr (mp_KED)	-0.005 ppb	148 cps	11.5 %
55Mn (mp_KED)	0.041 ppb	4,353 cps	7.5 %
56Fe (mp_KED)	-0.050 ppb	17,785 cps	0.8 %
57Fe (mp_KED)	-0.038 ppb	191 cps	9.1 %
59Co (mp_KED)	0.074 ppb	12,680 cps	1.0 %
60Ni (mp_KED)	0.534 ppb	21,533 cps	9.2 %
61Ni (mp_KED)	0.537 ppb	977 cps	9.6 %
62Ni (mp_KED)	0.524 ppb	3,236 cps	8.2 %
63Cu (mp_KED)	0.159 ppb	18,472 cps	7.6 %
65Cu (mp_KED)	0.157 ppb	9,047 cps	7.5 %
88Sr (mp_KED)	0.017 ppb	2,446 cps	9.7 %
105Pd (mp_KED)	-0.203 ppb	839 cps	982.9 %