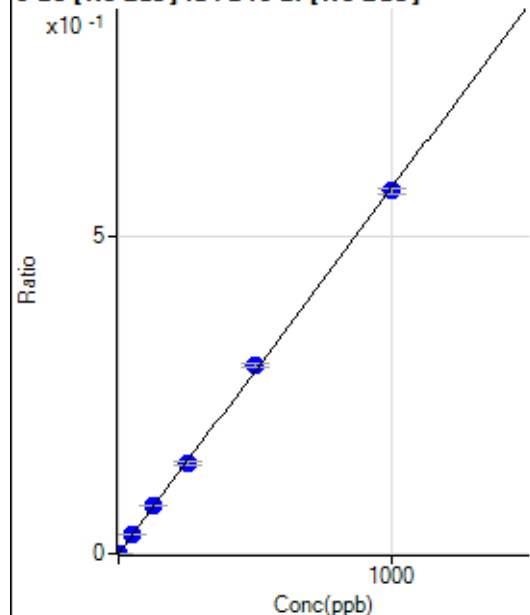


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012722MS1.b\
Analysis File: P8012722MS1.batch.bin
DA Date-Time: 2022-01-28 10:58:53
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2022-01-27 12:41:38
2	007CALS.d	S02	2022-01-27 12:47:49
3	008CALS.d	S03	2022-01-27 12:50:56
4	009CALS.d	S04	2022-01-27 12:53:59
5	010CALS.d	S05	2022-01-27 12:57:04
6	011CALS.d	S06	2022-01-27 13:00:08
7	012CALS.d	S07	2022-01-27 13:03:13
8	013CALS.d	S08	2022-01-27 13:06:16

9 Be [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.32	0.0000	P	18.3
2	☐	1.000	1.052	776.54	0.0006	P	5.5
3	☐	50.000	51.392	37578.29	0.0296	P	0.9
4	☐	125.000	129.433	95795.95	0.0745	P	0.5
5	☐	250.000	247.739	193483.50	0.1426	P	3.4
6	☐	500.000	515.293	388520.74	0.2967	P	1.5
7	☐	1000.000	992.295	768976.26	0.5713	P	1.7
8	☐			460.59	0.0004	P	8.4

$$y = 5.7567\text{E-}004 * x + 2.6988\text{E-}005$$

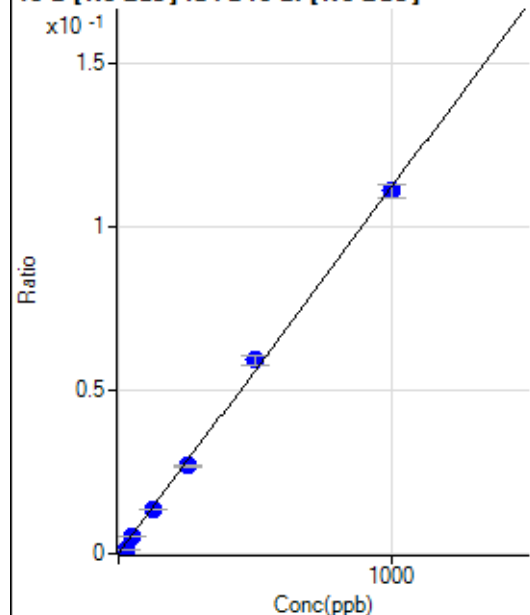
$$R = 0.9998$$

$$DL = 0.02568$$

$$BEC = 0.04688$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.32	0.0001	P	11.1
2	☐	25.000	10.850	1561.11	0.0013	P	5.7
3	☐	50.000	45.818	6582.86	0.0052	P	6.5
4	☐	125.000	119.931	17329.50	0.0135	P	3.5
5	☐	250.000	239.852	36526.75	0.0269	P	2.0
6	☐	500.000	527.927	77451.69	0.0592	P	5.6
7	☐	1000.000	989.770	149240.25	0.1109	P	3.7
8	☐			16095.65	0.0125	P	8.3

$$y = 1.1195\text{E-}004 * x + 5.7692\text{E-}005$$

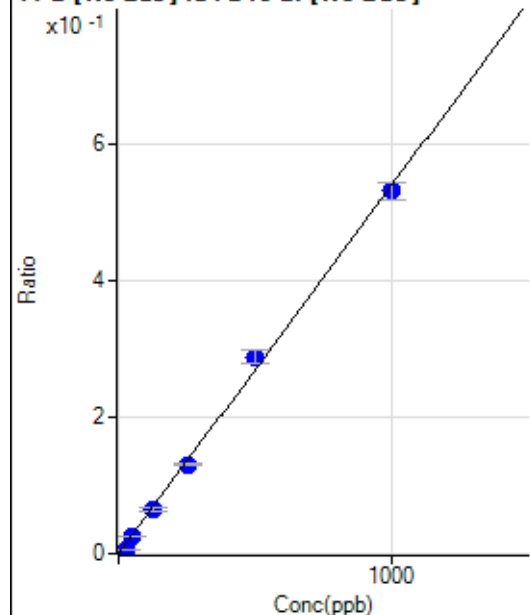
$$R = 0.9993$$

$$DL = 0.1708$$

$$BEC = 0.5153$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.95	0.0002	P	11.1
2	☐	25.000	11.304	7717.19	0.0063	P	4.3
3	☐	50.000	45.898	31608.36	0.0249	P	4.8
4	☐	125.000	120.002	83268.26	0.0648	P	5.6
5	☐	250.000	241.871	177018.44	0.1304	P	1.9
6	☐	500.000	535.253	377416.45	0.2883	P	6.0
7	☐	1000.000	985.578	714263.08	0.5307	P	4.8
8	☐			76920.87	0.0600	P	7.4

$$y = 5.3822\text{E-}004 * x + 2.0558\text{E-}004$$

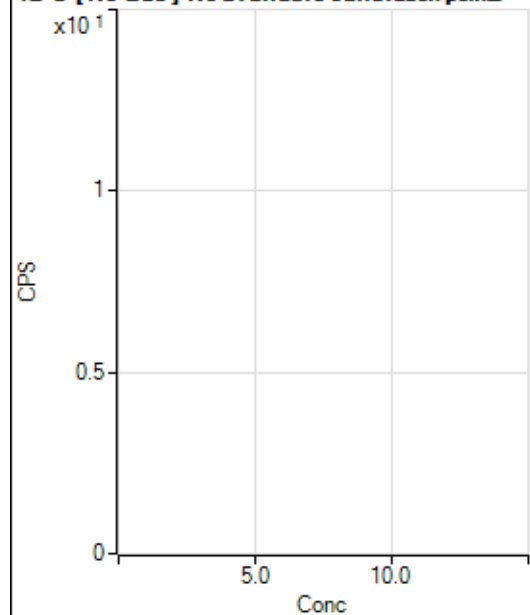
$$R = 0.9989$$

$$DL = 0.1269$$

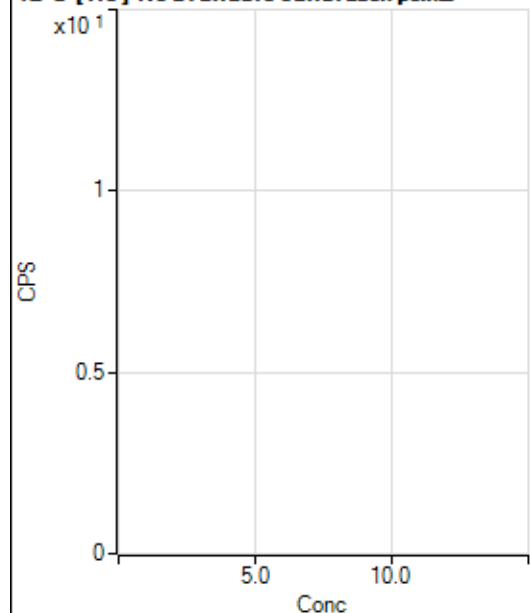
$$BEC = 0.382$$

Weight: <None>

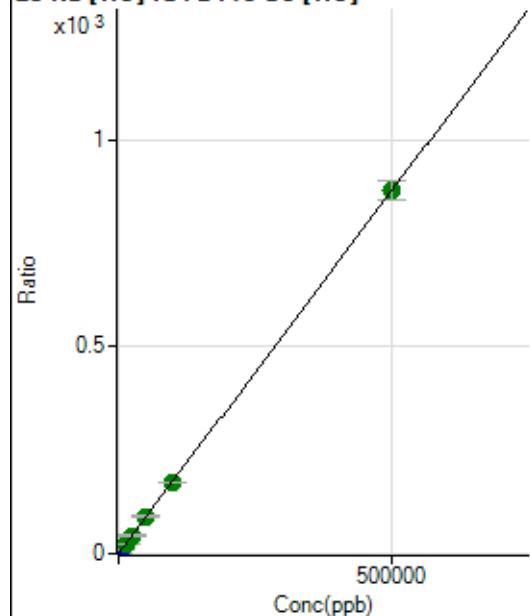
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3216239.53		A	0.9
2	☐			3406985.66		A	1.5
3	☐			3681815.80		A	0.8
4	☐			3721630.42		A	1.7
5	☐			3956247.35		A	1.8
6	☐			4280615.33		A	2.9
7	☐			5874188.24		A	4.0
8	☐			4580254.96		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33054.60		P	1.0
2	☐			34836.35		P	1.9
3	☐			37403.85		P	2.2
4	☐			38969.01		P	0.4
5	☐			41720.98		P	1.3
6	☐			45983.53		P	1.9
7	☐			64090.28		P	0.6
8	☐			49946.45		P	0.5

23 Na [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14599.34	0.1610	P	1.9
2	☐	500.000	443.873	88205.89	0.9390	P	2.4
3	☐	5000.000	4927.044	815688.56	8.7963	P	0.6
4	☐	12500.000	12599.240	2035846.29	22.2427	A	1.1
5	☐	25000.000	24934.027	3984431.25	43.8609	A	2.3
6	☐	50000.000	51282.204	7983456.17	90.0392	A	2.6
7	☐	100000.00	98445.162	15583750.00	172.6978	A	0.2
8	☐	500000.00	500184.35	77895075.35	876.7933	A	5.2

$$y = 0.0018 * x + 0.1610$$

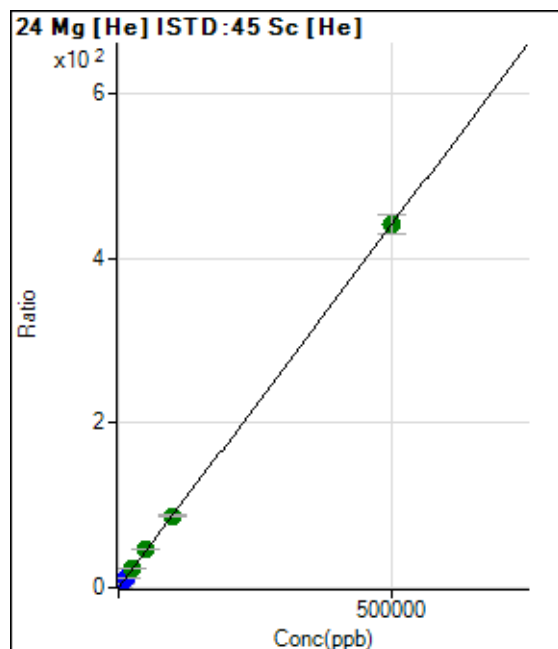
$$R = 1.0000$$

$$DL = 5.238$$

$$BEC = 91.89$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	536.14	0.0059	P	2.9
2	☐	500.000	464.281	38994.59	0.4151	P	2.8
3	☐	5000.000	5073.751	415247.08	4.4779	P	0.5
4	☐	12500.000	12550.925	1013060.03	11.0682	P	0.1
5	☐	25000.000	25665.938	2055698.33	22.6277	A	0.7
6	☐	50000.000	51916.174	4058321.27	45.7644	A	0.7
7	☐	100000.00	99213.539	7890793.93	87.4519	A	1.8
8	☐	500000.00	499930.40	39146424.14	440.6406	A	5.2

$$y = 8.8139\text{E-}004 * x + 0.0059$$

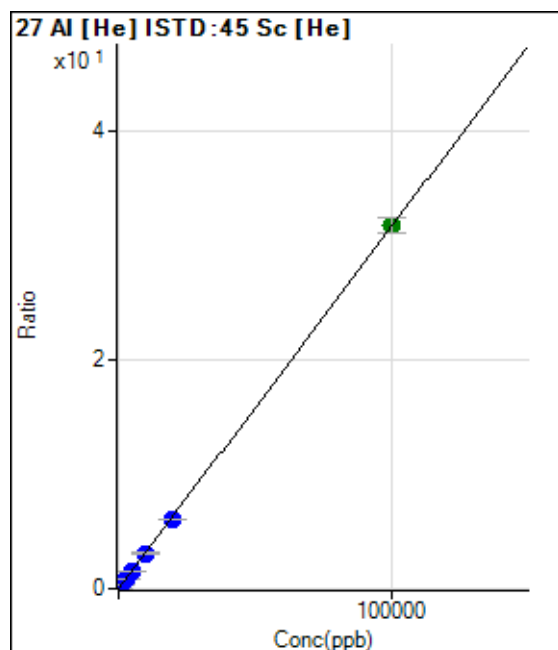
$$R = 1.0000$$

$$DL = 0.5881$$

$$BEC = 6.709$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.41	0.0012	P	7.9
2	☐	20.000	16.298	592.86	0.0063	P	7.3
3	☐	1000.000	972.500	28606.87	0.3085	P	0.7
4	☐	2500.000	2450.490	70980.89	0.7756	P	1.1
5	☐	5000.000	4874.502	140046.06	1.5416	P	1.3
6	☐	10000.000	9815.824	275171.92	3.1032	P	0.5
7	☐	20000.000	19173.969	546871.36	6.0605	P	0.5
8	☐	100000.00	100191.41	2813455.59	31.6638	A	4.3

$$y = 3.1602\text{E-}004 * x + 0.0012$$

$$R = 1.0000$$

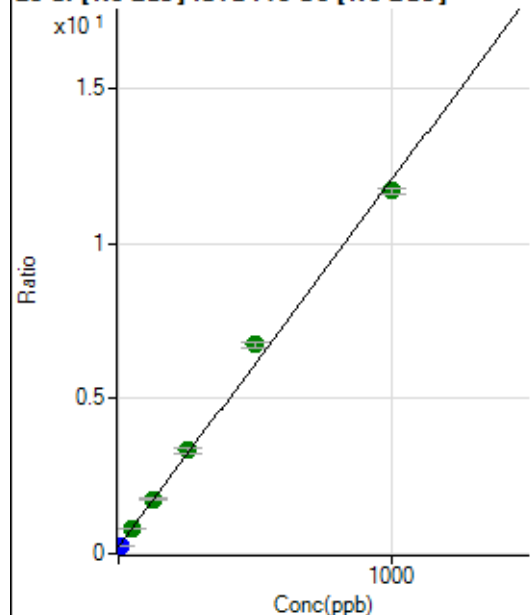
$$DL = 0.8708$$

$$BEC = 3.681$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	571501.38	0.2253	P	1.5
2	☐	10.000	1.151	602444.97	0.2389	P	1.5
3	☐	50.000	50.476	2140973.18	0.8221	A	2.3
4	☐	125.000	130.385	4587005.61	1.7669	A	5.3
5	☐	250.000	262.473	8916505.41	3.3286	A	6.3
6	☐	500.000	550.540	17615262.55	6.7346	A	1.9
7	☐	1000.000	971.003	31159207.29	11.7059	A	1.5
8	☐			1277419.72	0.4978	A	4.5

$$y = 0.0118 * x + 0.2253$$

R = 0.9978

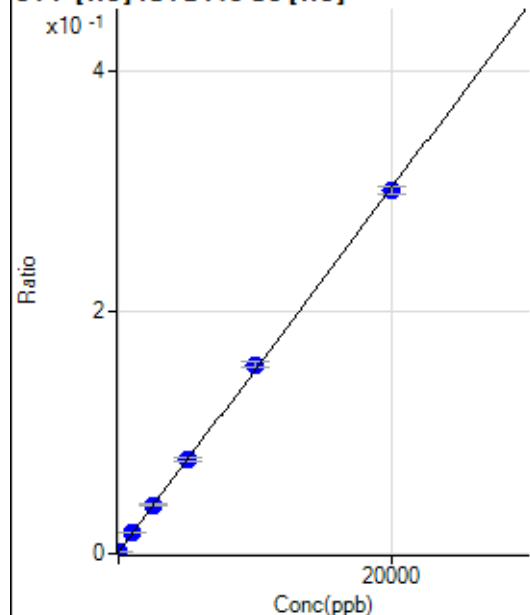
DL = 0.8355

BEC = 19.06

Weight: <None>

Min Conc: 0

31 P [He] ISTD : 45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-12.108	125.00	0.0014	P	22.9
2	☐	0.000	12.108	163.89	0.0017	P	20.1
3	☐	1000.000	1057.751	1622.36	0.0175	P	6.6
4	☐	2500.000	2572.377	3692.24	0.0403	P	3.5
5	☐	5000.000	5061.546	7071.38	0.0778	P	3.0
6	☐	10000.000	10283.633	13882.00	0.1566	P	2.5
7	☐	20000.000	19830.862	27109.28	0.3005	P	2.2
8	☐			180.56	0.0020	P	30.0

$$y = 1.5072E-005 * x + 0.0016$$

R = 0.9998

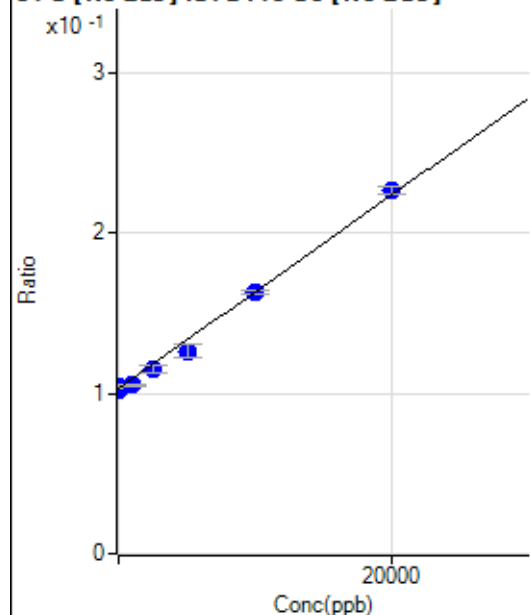
DL = 66.11

BEC = 103.4

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-131.555	259897.04	0.1025	P	1.5
2	☐	0.000	131.555	262369.62	0.1041	P	2.0
3	☐	1000.000	362.242	274645.51	0.1055	P	1.1
4	☐	2500.000	2026.052	299994.75	0.1155	P	3.8
5	☐	5000.000	3843.520	338805.95	0.1265	P	6.4
6	☐	10000.000	9926.460	426984.39	0.1632	P	1.1
7	☐	20000.000	20417.021	603108.57	0.2266	P	2.2
8	☐			246609.64	0.0961	P	2.4

$$y = 6.0407\text{E-}006 * x + 0.1033$$

$$R = 0.9981$$

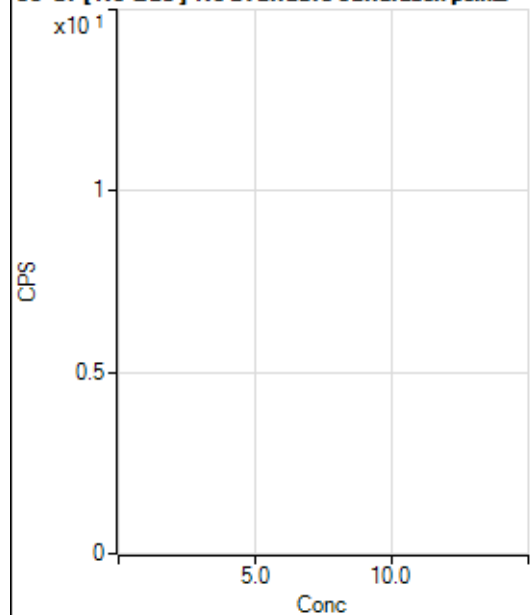
$$DL = 915$$

$$BEC = 1.709\text{E}+04$$

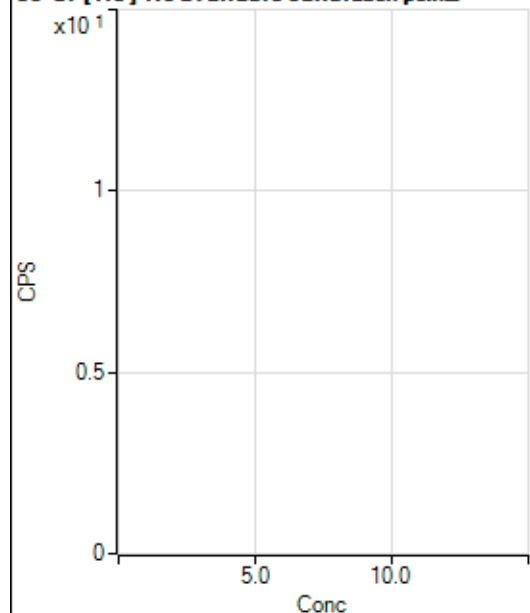
Weight: <None>

Min Conc: 0

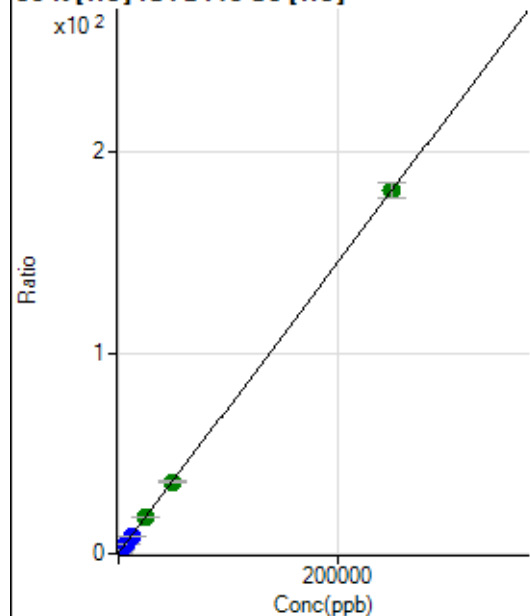
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			276775.79		P	1.0
2	☐			242370.60		P	0.4
3	☐			232783.01		P	0.6
4	☐			219818.40		P	0.7
5	☐			211622.95		P	1.7
6	☐			200985.46		P	2.3
7	☐			199928.85		P	0.9
8	☐			193910.57		P	1.0

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2116.88		P	7.0
2	☐			1844.61		P	9.7
3	☐			1722.36		P	2.9
4	☐			1697.37		P	5.9
5	☐			1536.24		P	8.2
6	☐			1400.11		P	6.3
7	☐			1411.22		P	10.9
8	☐			1291.76		P	6.7

39 K [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15700.59	0.1732	P	1.6
2	☐	500.000	448.543	46706.63	0.4972	P	0.8
3	☐	2500.000	2472.999	181713.70	1.9596	P	1.1
4	☐	6250.000	6184.464	424716.85	4.6408	P	1.4
5	☐	12500.000	12233.397	818563.64	9.0105	P	0.7
6	☐	25000.000	25474.330	1647224.39	18.5756	A	0.7
7	☐	50000.000	49457.168	3239365.76	35.9005	A	1.2
8	☐	250000.00	250076.47	16067326.05	180.8258	A	4.3

$$y = 7.2239E-004 * x + 0.1732$$

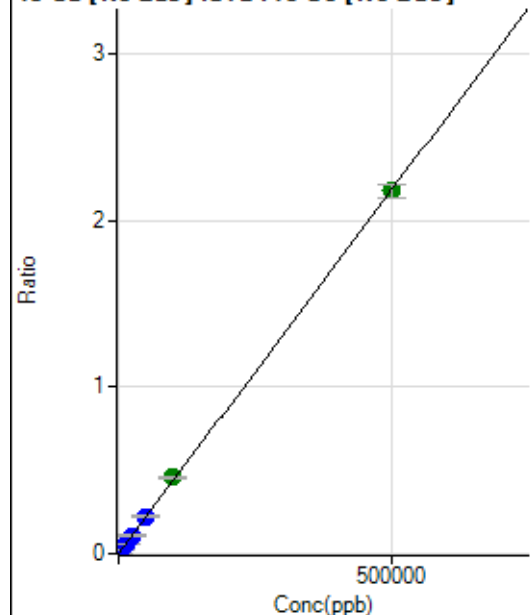
$$R = 1.0000$$

$$DL = 11.26$$

$$BEC = 239.7$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	236.64	0.0001	P	10.7
2	☐	500.000	463.395	5335.34	0.0021	P	2.8
3	☐	5000.000	5036.867	57508.32	0.0221	P	1.4
4	☐	12500.000	12777.702	145040.63	0.0559	P	5.4
5	☐	25000.000	25036.051	293015.26	0.1094	P	6.3
6	☐	50000.000	51250.838	585483.47	0.2238	P	1.2
7	☐	100000.00	104671.38	1216732.00	0.4570	A	0.8
8	☐	500000.00	498931.56	5589911.53	2.1781	A	3.8

$$y = 4.3654\text{E-}006 * x + 9.3414\text{E-}005$$

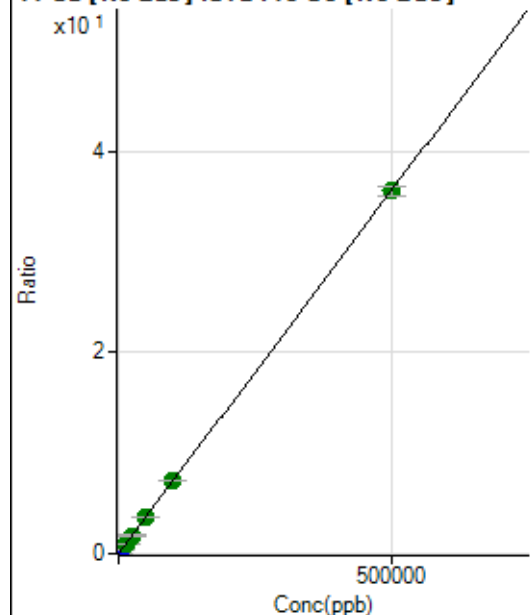
$$R = 0.9999$$

$$DL = 6.898$$

$$BEC = 21.4$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17133.12	0.0068	P	2.7
2	☐	500.000	469.425	102373.36	0.0406	P	1.7
3	☐	5000.000	4965.298	950002.27	0.3648	P	1.3
4	☐	12500.000	13062.198	2464535.56	0.9486	A	3.1
5	☐	25000.000	24858.021	4817390.33	1.7991	A	7.3
6	☐	50000.000	51289.368	9692247.75	3.7048	A	0.3
7	☐	100000.00	101217.90	19446404.23	7.3048	A	0.6
8	☐	500000.00	499620.90	92473568.45	36.0304	A	2.9

$$y = 7.2102\text{E-}005 * x + 0.0068$$

$$R = 1.0000$$

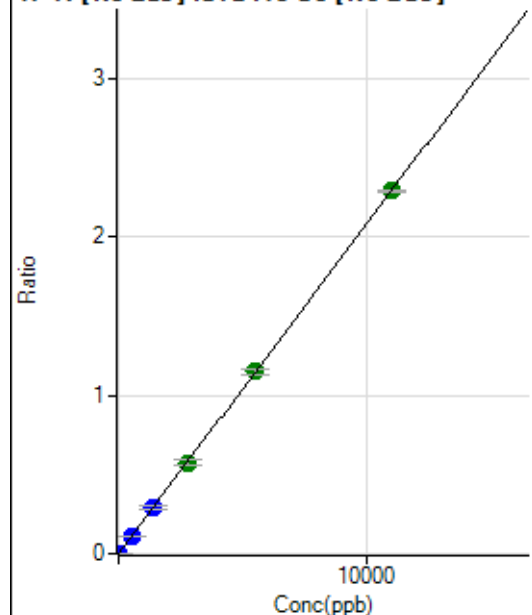
$$DL = 7.454$$

$$BEC = 93.7$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	211.12	0.0001	P	35.1
2	☐	5.000	5.077	2872.57	0.0011	P	1.3
3	☐	550.000	543.727	294775.95	0.1132	P	2.8
4	☐	1375.000	1397.176	754698.20	0.2907	P	5.1
5	☐	2750.000	2740.394	1527029.48	0.5701	A	6.4
6	☐	5500.000	5508.028	2996761.00	1.1458	A	3.0
7	☐	11000.000	10995.929	6088620.19	2.2873	A	0.8
8	☐			1005.63	0.0004	P	8.4

$$y = 2.0800\text{E-}004 * x + 8.2989\text{E-}005$$

$$R = 1.0000$$

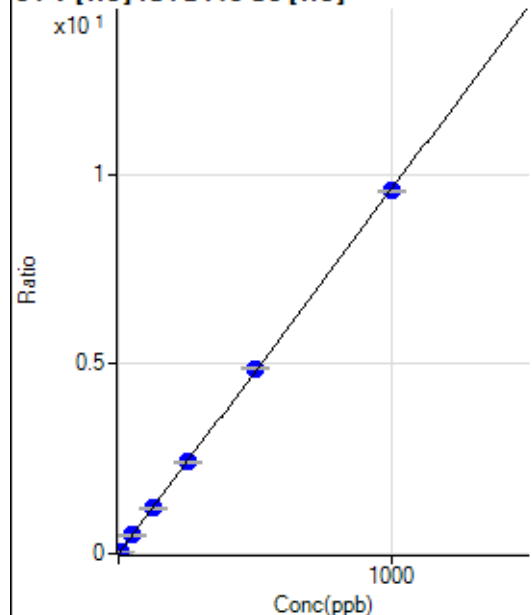
$$DL = 0.4199$$

$$BEC = 0.399$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0001	P	42.0
2	☐	5.000	4.758	4304.03	0.0458	P	3.3
3	☐	50.000	50.208	44709.78	0.4821	P	0.8
4	☐	125.000	124.595	109481.77	1.1962	P	1.3
5	☐	250.000	251.405	219270.61	2.4136	P	1.1
6	☐	500.000	508.679	433036.23	4.8834	P	1.1
7	☐	1000.000	995.351	862213.40	9.5554	P	0.8
8	☐			191.12	0.0022	P	33.3

$$y = 0.0096 * x + 1.4659\text{E-}004$$

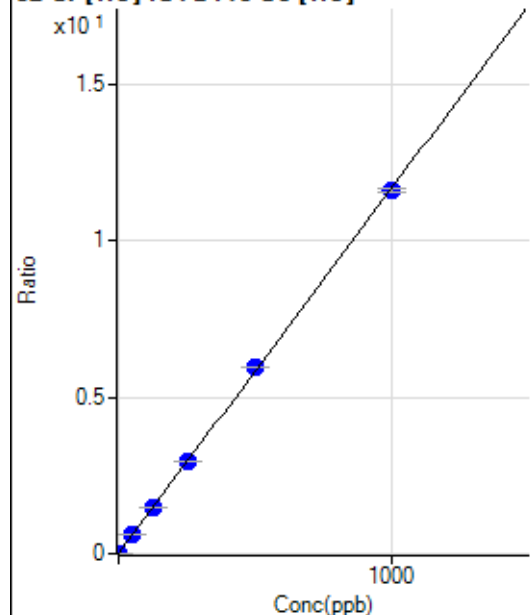
$$R = 0.9999$$

$$DL = 0.01924$$

$$BEC = 0.01527$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	601.13	0.0066	P	5.2
2	☐	2.000	1.780	2572.48	0.0274	P	1.2
3	☐	50.000	50.337	55027.60	0.5934	P	1.1
4	☐	125.000	126.430	135490.53	1.4804	P	0.9
5	☐	250.000	253.048	268576.17	2.9564	P	1.4
6	☐	500.000	511.471	529291.48	5.9688	P	0.3
7	☐	1000.000	993.307	1045399.02	11.5856	P	1.2
8	☐			2715.84	0.0305	P	2.5

$$y = 0.0117 * x + 0.0066$$

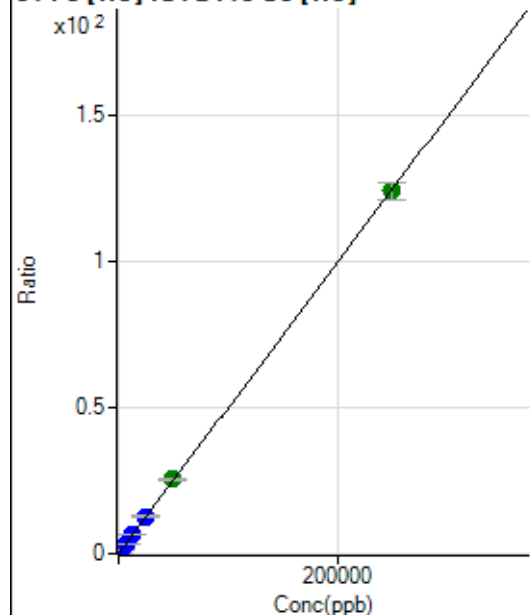
$$R = 0.9999$$

$$DL = 0.08865$$

$$BEC = 0.5688$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	429.65	0.0047	P	22.6
2	☐	50.000	47.003	2644.75	0.0281	P	2.6
3	☐	2500.000	2519.845	116758.52	1.2592	P	1.6
4	☐	6250.000	6405.319	292267.52	3.1935	P	1.5
5	☐	12500.000	12636.670	571940.77	6.2957	P	0.6
6	☐	25000.000	25637.239	1132141.83	12.7677	P	1.5
7	☐	50000.000	51444.821	2311174.50	25.6155	A	2.8
8	☐	250000.00	249636.39	11042236.01	124.2811	A	4.7

$$y = 4.9783E-004 * x + 0.0047$$

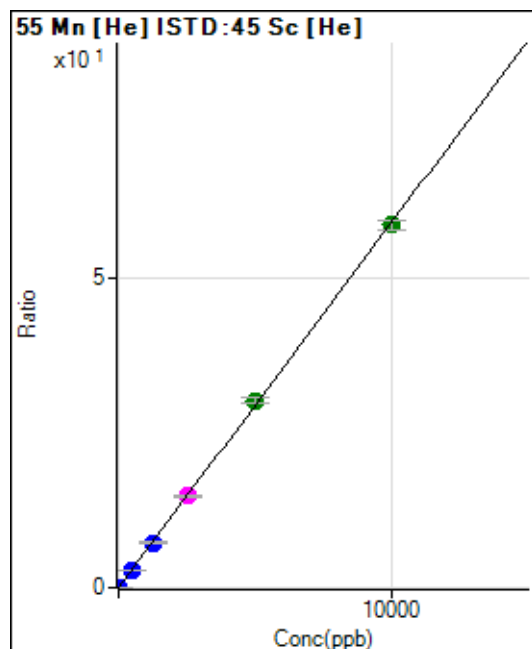
$$R = 1.0000$$

$$DL = 6.463$$

$$BEC = 9.535$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	60.00	0.0007	P	14.2
2	☐	1.000	0.871	544.46	0.0058	P	5.7
3	☐	500.000	488.847	267299.19	2.8825	P	0.7
4	☐	1250.000	1231.573	664532.89	7.2610	P	1.4
5	☐	2500.000	2505.886	1341978.36	14.7734	M	3.7
6	☐	5000.000	5131.671	2682629.30	30.2530	A	2.3
7	☐	10000.000	9935.554	5284948.22	58.5729	A	2.4
8	☐			3011.47	0.0339	P	10.9

$$y = 0.0059 * x + 6.6150E-004$$

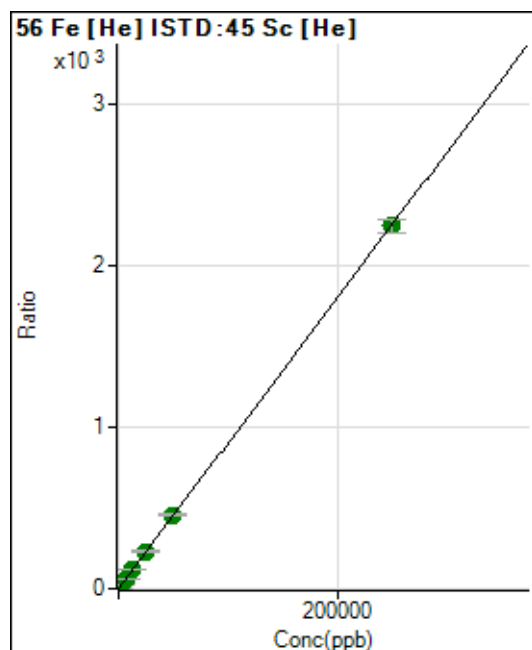
$$R = 0.9999$$

$$DL = 0.04796$$

$$BEC = 0.1122$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2917.03	0.0322	P	7.6
2	☐	50.000	46.184	42041.78	0.4476	P	1.6
3	☐	2500.000	2600.626	2172176.77	23.4231	A	2.4
4	☐	6250.000	6473.278	5332293.12	58.2550	A	0.7
5	☐	12500.000	12840.260	10494427.90	115.5218	A	2.0
6	☐	25000.000	25731.906	20526606.25	231.4736	A	0.8
7	☐	50000.000	50673.348	41127155.09	455.8053	A	1.8
8	☐	250000.00	249768.53	199633610.0	2,246.534	A	3.9

$$y = 0.0090 * x + 0.0322$$

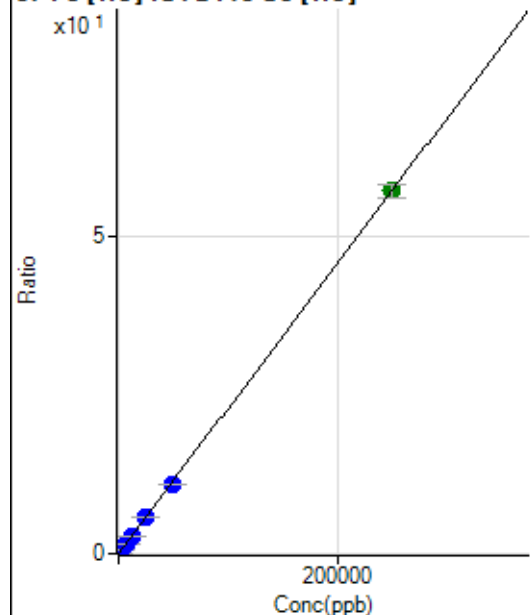
$$R = 1.0000$$

$$DL = 0.8141$$

$$BEC = 3.579$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.38	0.0024	P	12.1
2	☐	50.000	41.220	1113.03	0.0119	P	11.8
3	☐	2500.000	2438.557	51940.70	0.5602	P	1.8
4	☐	6250.000	6146.923	128909.94	1.4083	P	1.1
5	☐	12500.000	12294.456	255672.95	2.8143	P	1.1
6	☐	25000.000	24735.476	501893.31	5.6597	P	0.9
7	☐	50000.000	48053.801	991943.79	10.9929	P	0.5
8	☐	250000.00	250429.16	5090115.04	57.2788	A	3.6

$$y = 2.2871\text{E-}004 * x + 0.0024$$

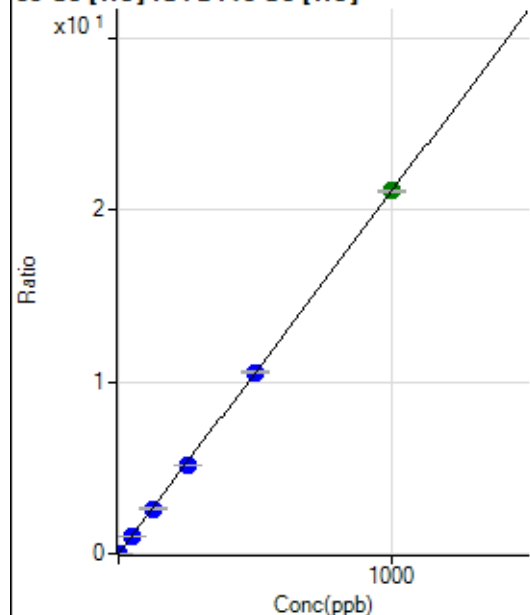
$$R = 1.0000$$

$$DL = 3.86$$

$$BEC = 10.63$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0006	P	41.0
2	☐	1.000	0.938	1909.04	0.0203	P	6.4
3	☐	50.000	48.859	95635.44	1.0313	P	0.6
4	☐	125.000	123.689	238851.78	2.6099	P	1.7
5	☐	250.000	245.112	469799.19	5.1715	P	1.0
6	☐	500.000	499.647	934733.03	10.5412	P	1.0
7	☐	1000.000	1001.620	1906743.89	21.1309	A	0.5
8	☐			4427.41	0.0498	P	3.4

$$y = 0.0211 * x + 5.5201\text{E-}004$$

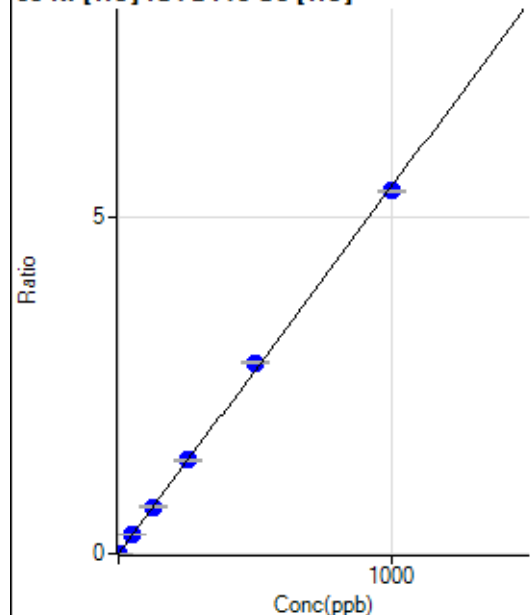
$$R = 1.0000$$

$$DL = 0.03215$$

$$BEC = 0.02617$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	91.11	0.0010	P	6.2
2	☐	1.000	0.904	556.69	0.0059	P	10.8
3	☐	50.000	51.370	26063.95	0.2810	P	0.6
4	☐	125.000	128.104	64010.02	0.6994	P	1.2
5	☐	250.000	254.725	126240.42	1.3896	P	1.2
6	☐	500.000	519.513	251237.95	2.8331	P	0.7
7	☐	1000.000	988.606	486393.22	5.3904	P	0.8
8	☐			1413.42	0.0159	P	7.5

$$y = 0.0055 * x + 0.0010$$

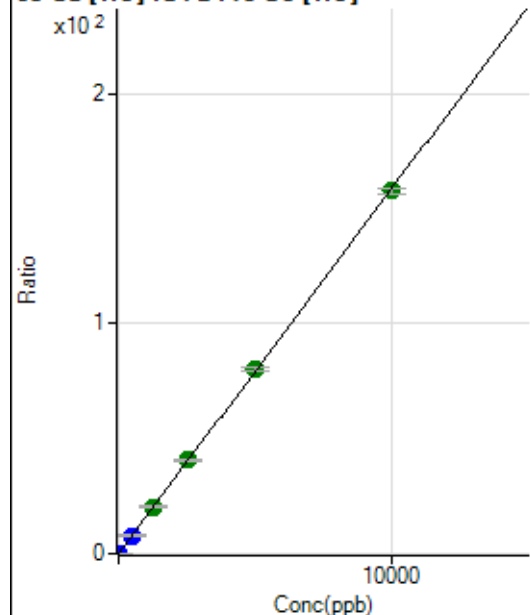
$$R = 0.9997$$

$$DL = 0.03408$$

$$BEC = 0.1844$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	323.34	0.0036	P	12.1
2	☐	2.000	1.867	3118.15	0.0332	P	0.9
3	☐	500.000	499.701	735662.40	7.9338	P	1.6
4	☐	1250.000	1283.691	1864964.00	20.3757	A	1.4
5	☐	2500.000	2557.200	3686963.14	40.5862	A	1.4
6	☐	5000.000	5074.023	7140647.60	80.5280	A	2.2
7	☐	10000.000	9944.492	14240514.51	157.8220	A	1.3
8	☐			5515.63	0.0621	P	7.7

$$y = 0.0159 * x + 0.0036$$

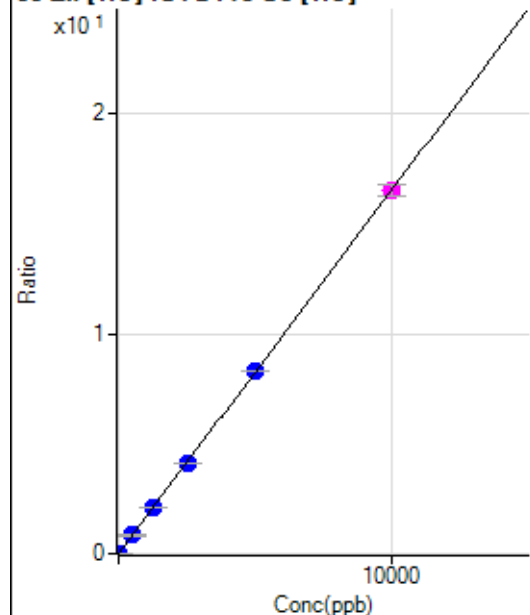
$$R = 0.9999$$

$$DL = 0.08133$$

$$BEC = 0.2246$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	80.00	0.0009	P	29.2
2	☐	2.000	2.035	398.90	0.0042	P	16.2
3	☐	500.000	502.523	77096.74	0.8313	P	0.5
4	☐	1250.000	1262.629	191041.90	2.0875	P	1.6
5	☐	2500.000	2491.044	374065.70	4.1175	P	1.5
6	☐	5000.000	5028.594	736987.72	8.3110	P	0.7
7	☐	10000.000	9986.237	1489329.86	16.5039	M	3.2
8	☐			3746.08	0.0422	P	6.1

$$y = 0.0017 * x + 8.8075E-004$$

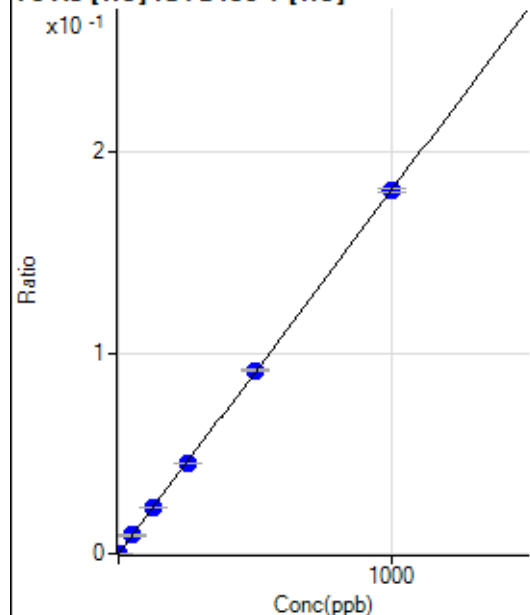
$$R = 1.0000$$

$$DL = 0.4662$$

$$BEC = 0.533$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9.13	0.0000	P	8.6
2	☐	1.000	0.813	100.33	0.0002	P	21.0
3	☐	50.000	50.200	5665.32	0.0091	P	1.2
4	☐	125.000	125.410	14018.48	0.0227	P	1.3
5	☐	250.000	248.788	27865.92	0.0450	P	0.9
6	☐	500.000	503.726	55257.93	0.0912	P	0.6
7	☐	1000.000	998.379	109863.93	0.1807	P	1.1
8	☐			76.80	0.0001	P	15.4

$$y = 1.8099E-004 * x + 1.4894E-005$$

$$R = 1.0000$$

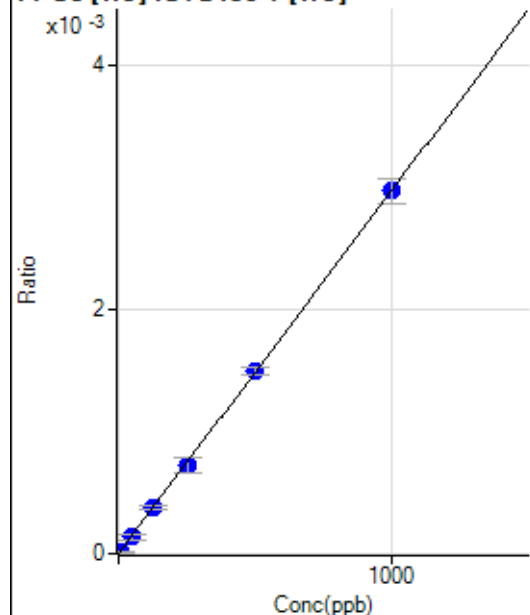
$$DL = 0.02133$$

$$BEC = 0.08229$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	3.017	6.66	0.0000	P	87.0
3	☐	50.000	44.981	84.44	0.0001	P	26.4
4	☐	125.000	127.054	234.45	0.0004	P	10.7
5	☐	250.000	244.490	451.13	0.0007	P	17.4
6	☐	500.000	502.871	907.82	0.0015	P	4.8
7	☐	1000.000	999.946	1809.02	0.0030	P	6.7
8	☐			4.44	0.0000	P	39.6

$$y = 2.9750\text{E-}006 * x + 1.7948\text{E-}006$$

$$R = 1.0000$$

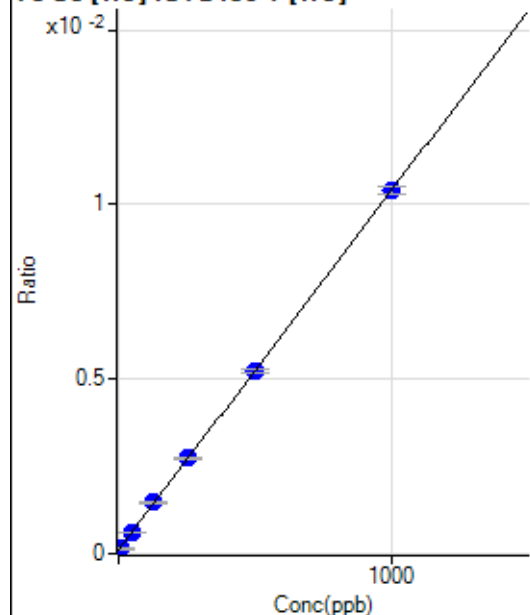
$$DL = 3.135$$

$$BEC = 0.6033$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.34	0.0001	P	10.5
2	☐	5.000	3.694	89.68	0.0001	P	16.8
3	☐	50.000	49.248	382.05	0.0006	P	2.8
4	☐	125.000	132.296	906.46	0.0015	P	1.9
5	☐	250.000	255.095	1690.61	0.0027	P	1.3
6	☐	500.000	498.414	3174.02	0.0052	P	1.6
7	☐	1000.000	998.651	6314.72	0.0104	P	2.1
8	☐			60.34	0.0001	P	13.5

$$y = 1.0295\text{E-}005 * x + 1.0660\text{E-}004$$

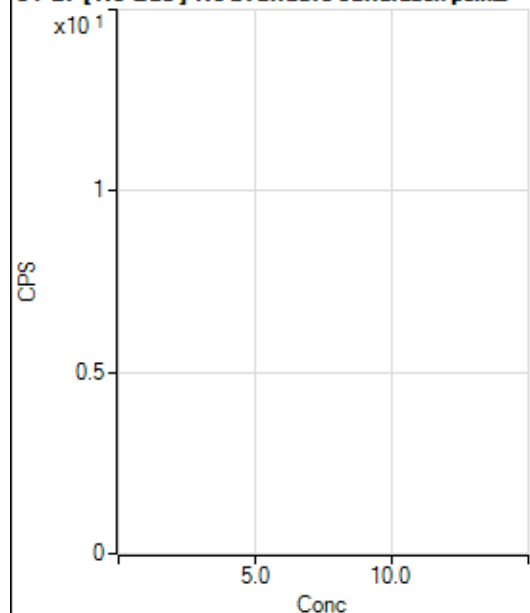
$$R = 1.0000$$

$$DL = 3.267$$

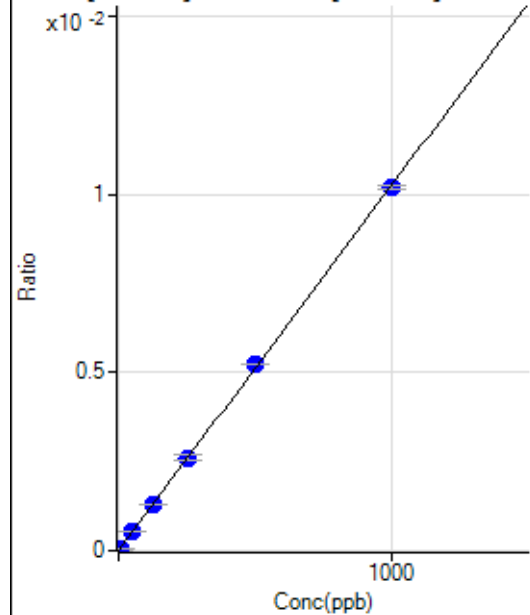
$$BEC = 10.35$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13480.41		P	2.3
2	☐			13837.88		P	1.9
3	☐			13834.47		P	0.4
4	☐			13360.16		P	3.6
5	☐			13477.09		P	2.3
6	☐			12528.62		P	1.9
7	☐			13253.28		P	1.0
8	☐			14208.70		P	4.1

82 Se [No Gas] ISTD: 89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	191.
2	☐	5.000	4.124	256.45	0.0000	P	9.5
3	☐	50.000	50.633	2842.19	0.0005	P	1.9
4	☐	125.000	127.510	7212.42	0.0013	P	0.8
5	☐	250.000	253.038	14476.07	0.0026	P	6.3
6	☐	500.000	511.007	28551.37	0.0052	P	0.5
7	☐	1000.000	993.396	56993.95	0.0102	P	1.0
8	☐			74.88	0.0000	P	72.5

$$y = 1.0258\text{E-}005 * x + 6.2764\text{E-}006$$

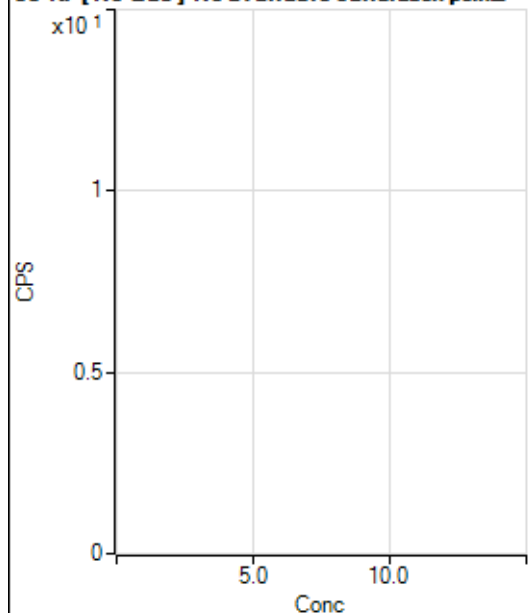
$$R = 0.9999$$

$$DL = 3.51$$

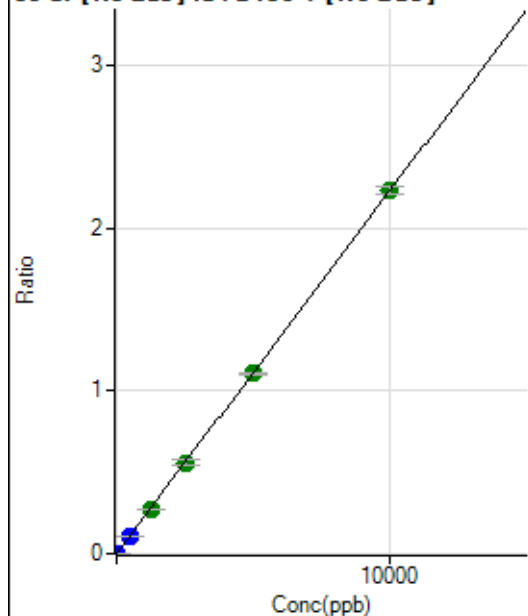
$$BEC = 0.6118$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			626.69		P	6.4
2	☐			657.80		P	5.4
3	☐			636.69		P	7.9
4	☐			687.80		P	1.4
5	☐			625.58		P	10.2
6	☐			711.14		P	1.5
7	☐			650.02		P	5.1
8	☐			673.36		P	4.0

86 Sr [No Gas] ISTD : 89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1033.40	0.0002	P	2.4
2	☐	1.000	0.964	2166.90	0.0004	P	6.9
3	☐	500.000	489.443	590213.30	0.1092	P	2.4
4	☐	1250.000	1232.978	1507409.62	0.2747	A	1.5
5	☐	2500.000	2509.424	3109148.49	0.5589	A	6.4
6	☐	5000.000	4976.253	6028315.67	1.1081	A	0.9
7	☐	10000.000	10012.173	12459972.24	2.2293	A	2.1
8	☐			9295.20	0.0017	P	3.0

$$y = 2.2264E-004 * x + 1.9571E-004$$

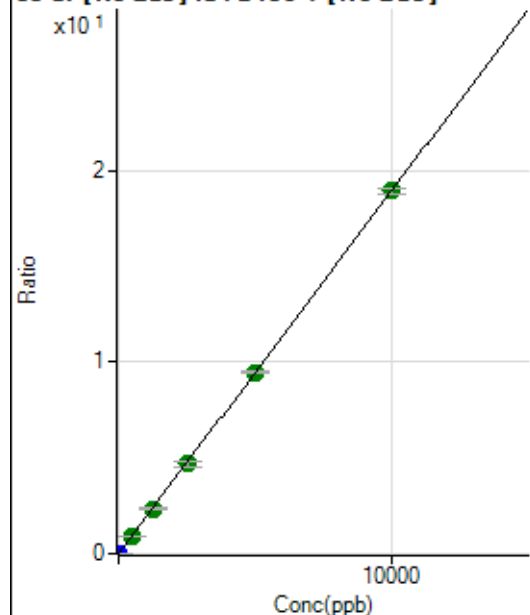
$$R = 1.0000$$

$$DL = 0.06284$$

$$BEC = 0.879$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.90	0.0000	P	7.0
2	☐	1.000	0.980	9953.85	0.0019	P	2.0
3	☐	500.000	495.435	5065625.63	0.9370	A	2.4
4	☐	1250.000	1238.573	12851878.15	2.3423	A	1.6
5	☐	2500.000	2482.214	26108616.55	4.6942	A	7.2
6	☐	5000.000	5007.307	51515736.57	9.4696	A	1.5
7	☐	10000.000	10002.450	105732089.1	18.9161	A	1.8
8	☐			69123.22	0.0128	P	4.3

$$y = 0.0019 * x + 3.1052E-005$$

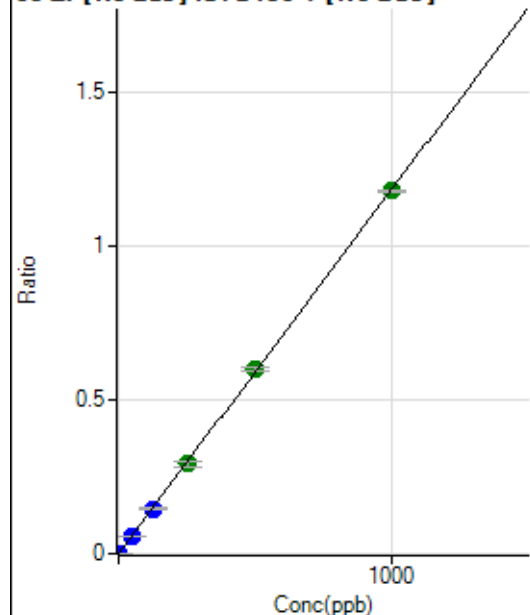
$$R = 1.0000$$

$$DL = 0.003437$$

$$BEC = 0.01642$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD:89 Y [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.12	0.0001	P	18.7
2	☐	1.000	0.961	6346.05	0.0012	P	6.7
3	☐	50.000	48.847	313141.10	0.0579	P	0.6
4	☐	125.000	123.968	805747.32	0.1469	P	3.1
5	☐	250.000	245.965	1620459.12	0.2914	A	8.1
6	☐	500.000	508.445	3276153.85	0.6022	A	1.8
7	☐	1000.000	996.973	6600807.26	1.1808	A	0.4
8	☐			2950.41	0.0005	P	3.4

$$y = 0.0012 * x + 6.3548E-005$$

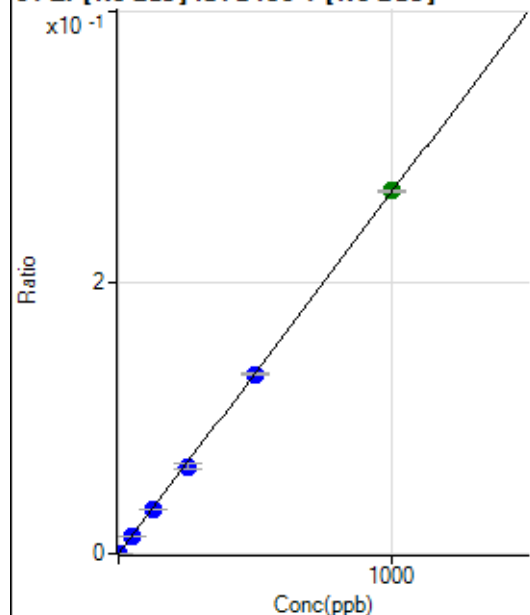
$$R = 0.9999$$

$$DL = 0.03017$$

$$BEC = 0.05366$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.23	0.0000	P	13.5
2	☐	1.000	0.849	1266.76	0.0002	P	10.8
3	☐	50.000	49.299	71107.44	0.0132	P	1.6
4	☐	125.000	121.342	177490.24	0.0324	P	1.9
5	☐	250.000	240.890	357103.44	0.0642	P	7.5
6	☐	500.000	497.340	721126.03	0.1326	P	1.1
7	☐	1000.000	1004.100	1495782.27	0.2676	A	0.8
8	☐			683.37	0.0001	P	15.3

$$y = 2.6651\text{E-}004 * x + 1.3680\text{E-}005$$

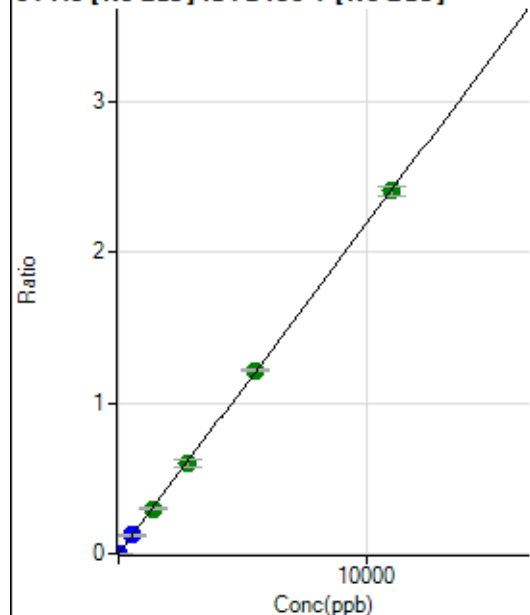
$$R = 0.9999$$

$$DL = 0.02081$$

$$BEC = 0.05133$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD : 89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	127.78	0.0000	P	17.9
2	☐	5.000	6.061	7138.15	0.0014	P	1.9
3	☐	550.000	554.170	656475.20	0.1214	P	1.0
4	☐	1375.000	1367.366	1643332.56	0.2996	A	3.1
5	☐	2750.000	2722.470	3315019.52	0.5964	A	8.6
6	☐	5500.000	5554.245	6618898.46	1.2167	A	1.5
7	☐	11000.000	10980.506	13442741.10	2.4054	A	2.5
8	☐			3967.35	0.0007	P	11.7

$$y = 2.1906\text{E-}004 * x + 2.4168\text{E-}005$$

$$R = 1.0000$$

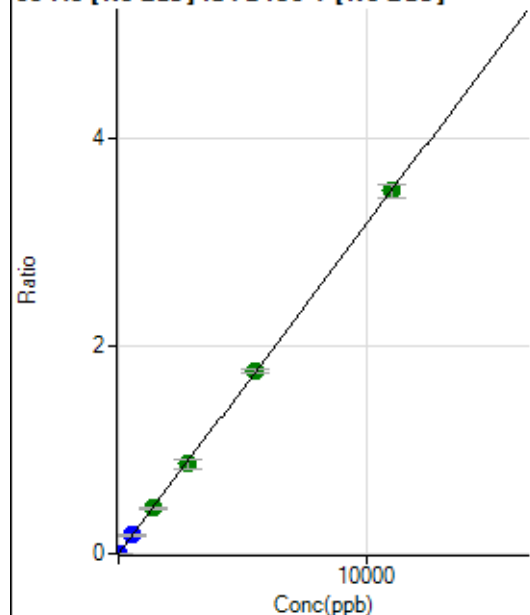
$$DL = 0.0594$$

$$BEC = 0.1103$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	29.1
2	☐	5.000	4.935	8347.22	0.0016	P	1.6
3	☐	550.000	554.614	953733.45	0.1764	P	1.6
4	☐	1375.000	1369.413	2388794.43	0.4355	A	4.3
5	☐	2750.000	2712.190	4793404.14	0.8626	A	9.2
6	☐	5500.000	5534.019	9574886.58	1.7600	A	2.7
7	☐	11000.000	10992.911	19537431.69	3.4962	A	3.5
8	☐			4548.15	0.0008	P	13.8

$$y = 3.1804\text{E-}004 * x + 1.1596\text{E-}005$$

$$R = 1.0000$$

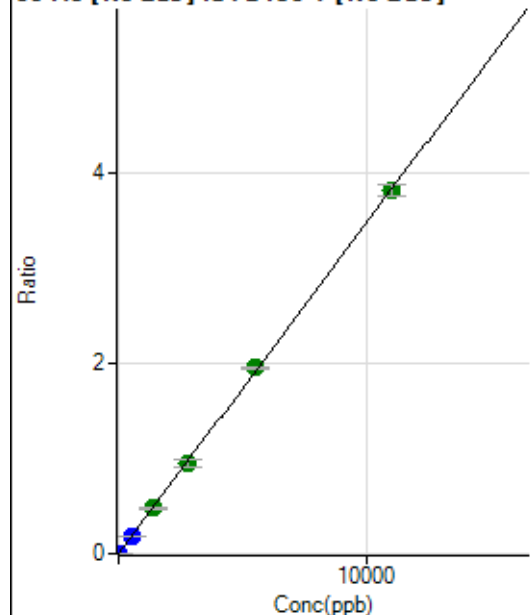
$$DL = 0.03186$$

$$BEC = 0.03646$$

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0000	P	13.2
2	☐	5.000	5.068	9433.99	0.0018	P	3.7
3	☐	550.000	546.585	1027395.55	0.1900	P	0.6
4	☐	1375.000	1366.617	2606749.65	0.4751	A	1.7
5	☐	2750.000	2727.729	5273369.99	0.9482	A	7.1
6	☐	5500.000	5603.357	10595783.48	1.9478	A	1.2
7	☐	11000.000	10955.107	21280830.51	3.8080	A	3.0
8	☐			11121.44	0.0021	P	10.2

$$y = 3.4760\text{E-}004 * x + 2.5268\text{E-}005$$

$$R = 0.9999$$

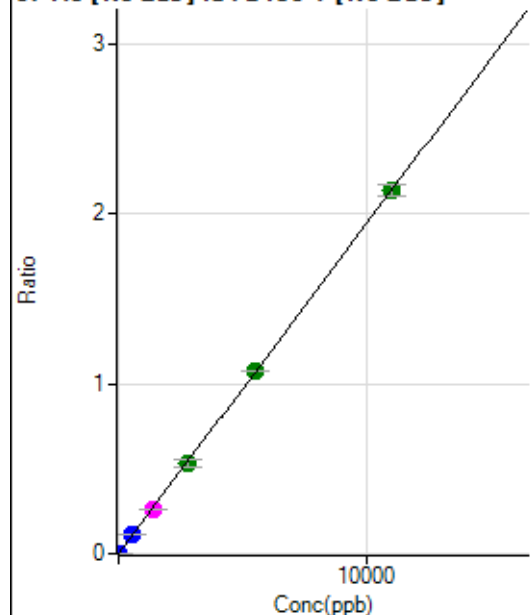
$$DL = 0.02878$$

$$BEC = 0.07269$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	62.7
2	☐	5.000	4.896	5053.82	0.0010	P	1.8
3	☐	550.000	558.920	587503.81	0.1087	P	0.1
4	☐	1375.000	1363.732	1454758.67	0.2651	M	0.3
5	☐	2750.000	2749.672	2971696.12	0.5345	A	8.1
6	☐	5500.000	5530.647	5848739.59	1.0751	A	1.0
7	☐	11000.000	10985.721	11934438.98	2.1356	A	3.0
8	☐			3161.64	0.0006	P	3.7

$$y = 1.9440\text{E-}004 * x + 5.2824\text{E-}006$$

$$R = 1.0000$$

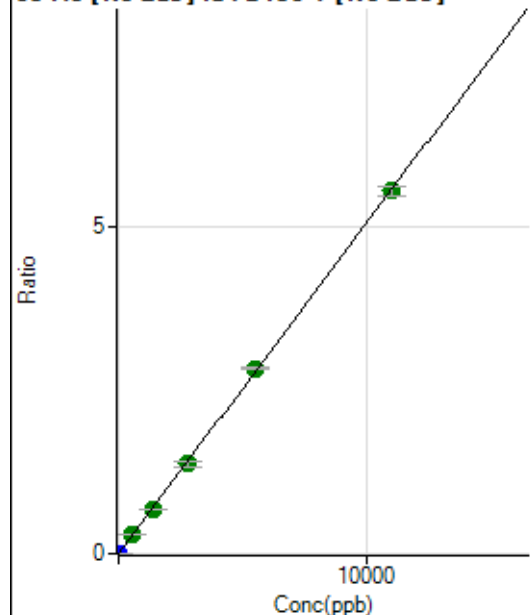
$$DL = 0.05115$$

$$BEC = 0.02717$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	24.9
2	☐	5.000	4.955	13279.00	0.0025	P	3.6
3	☐	550.000	555.806	1521063.37	0.2813	A	1.0
4	☐	1375.000	1350.748	3751239.19	0.6837	A	0.9
5	☐	2750.000	2715.629	7645902.95	1.3745	A	6.7
6	☐	5500.000	5595.077	15405297.92	2.8318	A	0.7
7	☐	11000.000	10963.795	31011709.03	5.5491	A	2.6
8	☐			7794.34	0.0014	P	17.7

$$y = 5.0613\text{E-}004 * x + 7.3661\text{E-}006$$

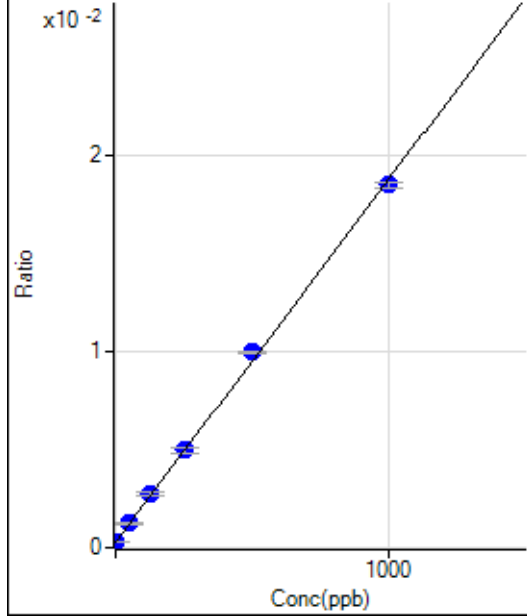
$$R = 0.9999$$

$$DL = 0.01088$$

$$BEC = 0.01455$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD :159 Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1069.52	0.0003	P	12.2
2	☐	1.000	2.056	1247.32	0.0003	P	9.2
3	☐	50.000	51.706	5006.62	0.0012	P	4.8
4	☐	125.000	134.123	11377.20	0.0027	P	4.0
5	☐	250.000	253.761	21453.28	0.0050	P	6.6
6	☐	500.000	524.463	41117.64	0.0100	P	1.1
7	☐	1000.000	985.602	80734.74	0.0185	P	1.4
8	☐			1100.07	0.0003	P	7.9

$$y = 1.8488\text{E-}005 * x + 2.6946\text{E-}004$$

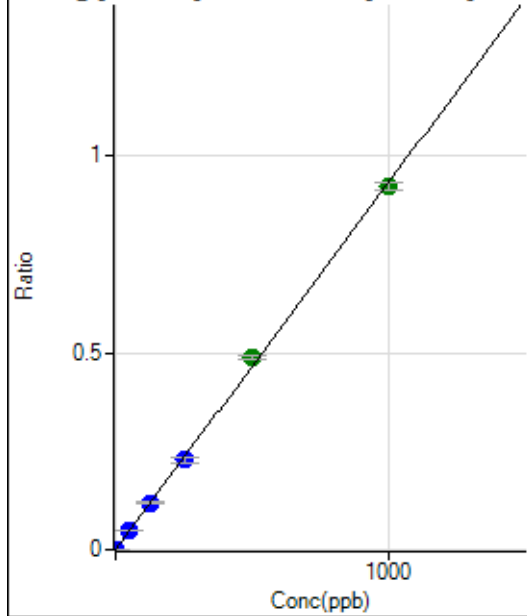
$$R = 0.9995$$

$$DL = 5.354$$

$$BEC = 14.58$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD :159 Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	46.2
2	☐	1.000	0.988	3761.73	0.0009	P	4.6
3	☐	50.000	50.787	193137.08	0.0473	P	1.9
4	☐	125.000	127.268	490557.28	0.1185	P	3.4
5	☐	250.000	244.372	984127.02	0.2276	P	6.7
6	☐	500.000	525.496	2018875.61	0.4894	A	2.2
7	☐	1000.000	988.336	4018476.30	0.9204	A	2.1
8	☐			1191.75	0.0003	P	2.5

$$y = 9.3126\text{E-}004 * x + 7.0105\text{E-}006$$

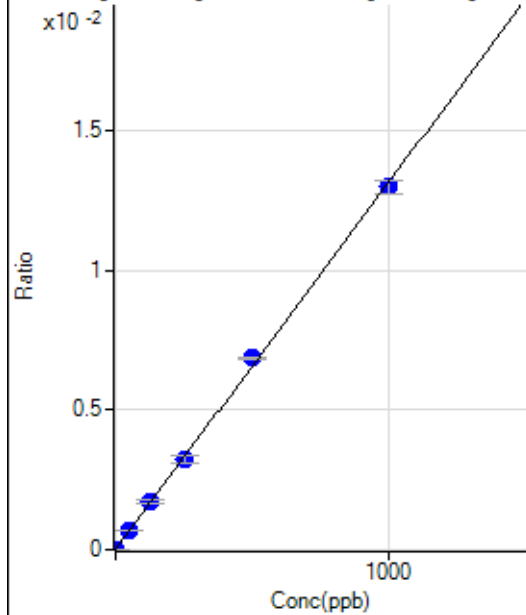
$$R = 0.9995$$

$$DL = 0.01043$$

$$BEC = 0.007528$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD :159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	60.0
2	☐	1.000	1.241	91.67	0.0000	P	0.6
3	☐	50.000	52.374	2836.45	0.0007	P	1.5
4	☐	125.000	130.059	7097.74	0.0017	P	5.1
5	☐	250.000	246.691	14042.03	0.0032	P	7.3
6	☐	500.000	523.159	28391.90	0.0069	P	0.8
7	☐	1000.000	988.496	56733.03	0.0130	P	3.4
8	☐			91.67	0.0000	P	53.6

$$y = 1.3140\text{E-}005 * x + 6.2828\text{E-}006$$

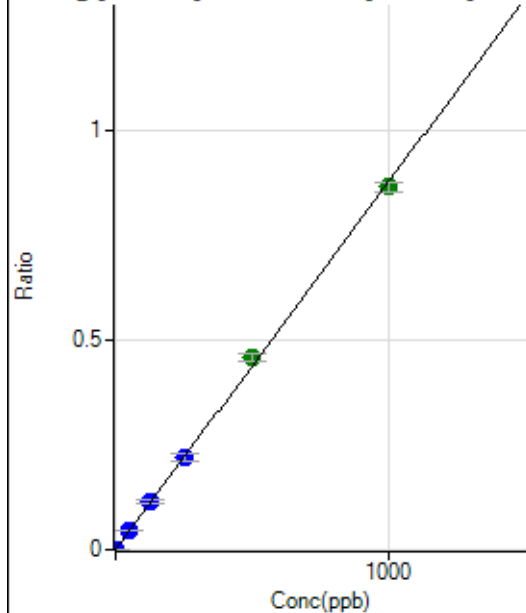
$$R = 0.9996$$

$$DL = 0.8612$$

$$BEC = 0.4781$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	77.2
2	☐	1.000	1.016	3642.26	0.0009	P	5.1
3	☐	50.000	52.377	187497.63	0.0459	P	0.6
4	☐	125.000	129.991	471196.13	0.1139	P	6.0
5	☐	250.000	252.738	957235.88	0.2215	P	8.6
6	☐	500.000	523.264	1892169.47	0.4586	A	3.3
7	☐	1000.000	986.940	3776578.16	0.8651	A	2.5
8	☐			1047.30	0.0003	P	20.2

$$y = 8.7650\text{E-}004 * x + 7.0476\text{E-}006$$

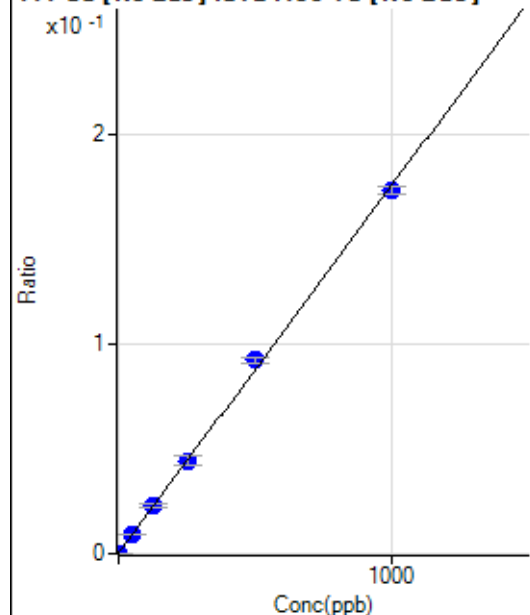
$$R = 0.9996$$

$$DL = 0.01861$$

$$BEC = 0.008041$$

Weight: <None>

Min Conc: 0

111 Cd [No Gas] ISTD :159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	749.22	0.0002	P	10.7
2	☐	1.000	1.097	1547.87	0.0004	P	3.3
3	☐	50.000	52.283	38266.87	0.0094	P	0.5
4	☐	125.000	129.172	94614.60	0.0229	P	5.3
5	☐	250.000	252.034	191948.63	0.0445	P	9.5
6	☐	500.000	525.979	381840.78	0.0926	P	2.6
7	☐	1000.000	985.866	756735.36	0.1733	P	2.0
8	☐			897.56	0.0002	P	8.0

$$y = 1.7562\text{E-}004 * x + 1.8881\text{E-}004$$

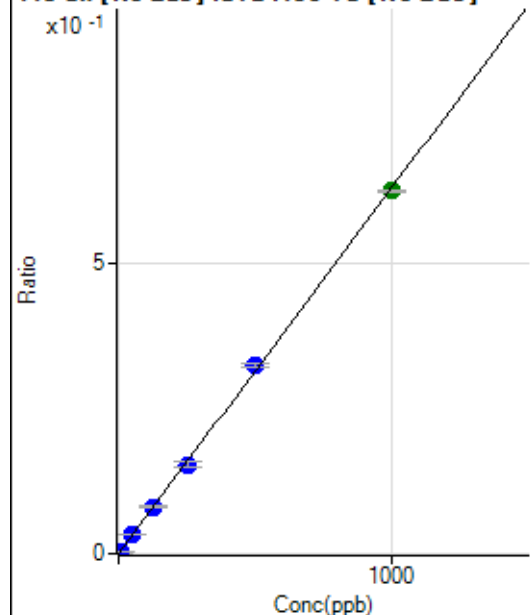
$$R = 0.9995$$

$$DL = 0.3463$$

$$BEC = 1.075$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	516.69	0.0001	P	5.1
2	☐	5.000	4.817	12870.36	0.0032	P	2.9
3	☐	50.000	51.122	132324.64	0.0324	P	0.4
4	☐	125.000	128.019	334701.02	0.0809	P	6.4
5	☐	250.000	243.937	666247.36	0.1541	P	7.4
6	☐	500.000	517.049	1347085.85	0.3265	P	2.3
7	☐	1000.000	992.558	2736664.73	0.6267	A	0.4
8	☐			1319.55	0.0003	P	2.6

$$y = 6.3129\text{E-}004 * x + 1.3054\text{E-}004$$

$$R = 0.9998$$

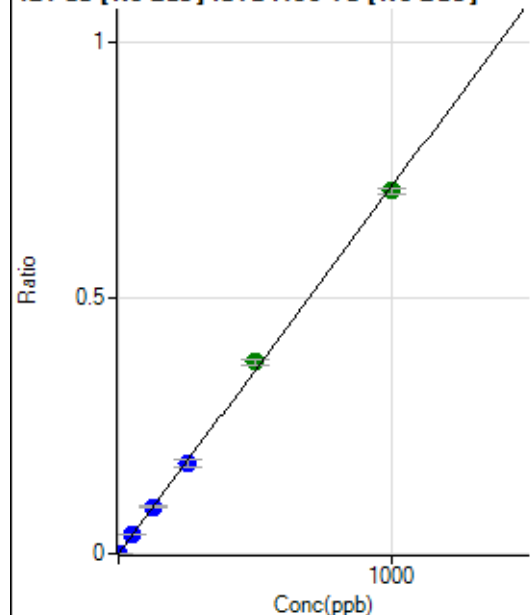
$$DL = 0.03162$$

$$BEC = 0.2068$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	28.5
2	☐	2.000	1.871	5476.25	0.0013	P	1.9
3	☐	50.000	50.816	148716.32	0.0364	P	1.8
4	☐	125.000	128.129	379888.03	0.0918	P	4.9
5	☐	250.000	247.692	766996.85	0.1775	P	8.2
6	☐	500.000	523.069	1546224.67	0.3748	A	2.8
7	☐	1000.000	988.611	3093203.22	0.7084	A	1.2
8	☐			2191.92	0.0005	P	4.4

$$y = 7.1658\text{E-}004 * x + 9.1571\text{E-}006$$

$$R = 0.9996$$

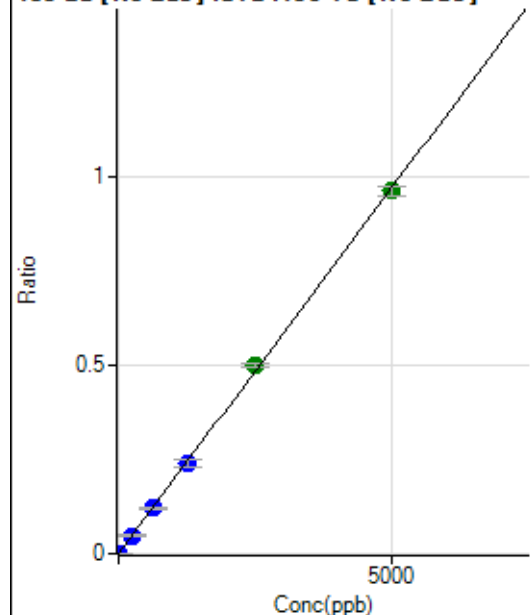
$$DL = 0.01092$$

$$BEC = 0.01278$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.45	0.0000	P	22.2
2	☐	10.000	9.558	7549.51	0.0019	P	5.0
3	☐	250.000	249.759	197988.17	0.0485	P	1.3
4	☐	625.000	626.025	502790.23	0.1215	P	4.5
5	☐	1250.000	1242.245	1042483.02	0.2411	P	7.4
6	☐	2500.000	2577.499	2064175.85	0.5003	A	2.3
7	☐	5000.000	4963.074	4205913.98	0.9634	A	2.9
8	☐			1350.12	0.0003	P	22.9

$$y = 1.9411\text{E-}004 * x + 4.8924\text{E-}006$$

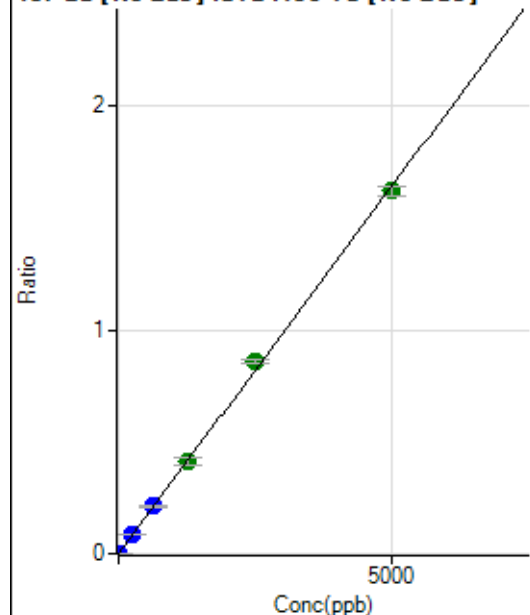
$$R = 0.9998$$

$$DL = 0.01678$$

$$BEC = 0.0252$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD :159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	43.6
2	☐	10.000	9.680	12923.21	0.0032	P	3.2
3	☐	250.000	256.088	343286.56	0.0841	P	2.0
4	☐	625.000	643.495	873672.24	0.2113	P	6.0
5	☐	1250.000	1256.025	1781522.89	0.4123	A	8.5
6	☐	2500.000	2608.098	3532276.43	0.8562	A	2.0
7	☐	5000.000	4941.829	7083008.58	1.6223	A	2.5
8	☐			2717.28	0.0007	P	12.7

$$y = 3.2829\text{E-}004 * x + 6.9737\text{E-}006$$

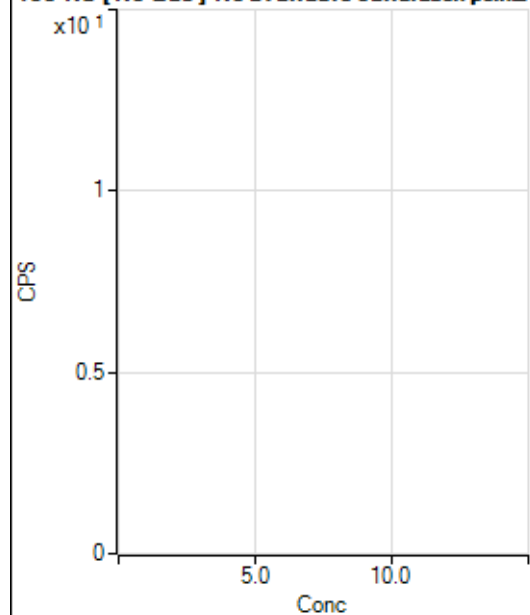
$$R = 0.9996$$

$$DL = 0.02777$$

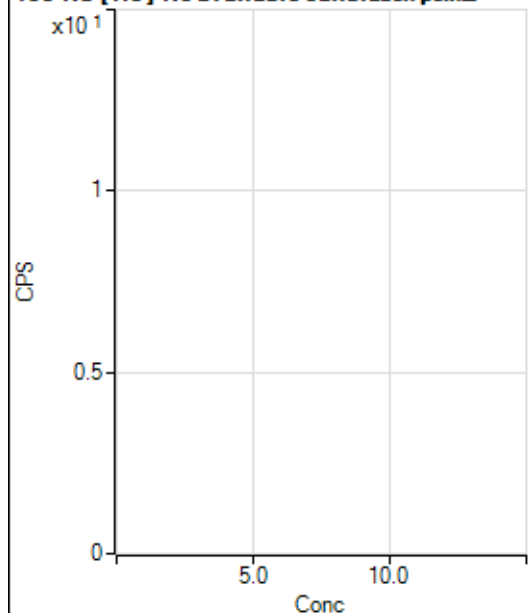
$$BEC = 0.02124$$

Weight: <None>

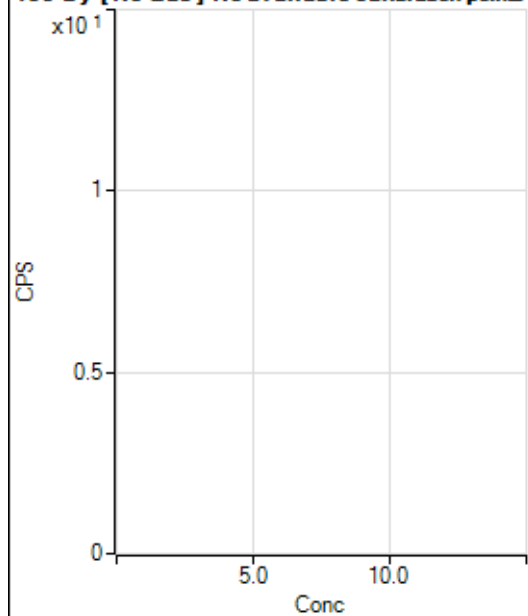
Min Conc: 0

150 Nd [No Gas] No available calibration points

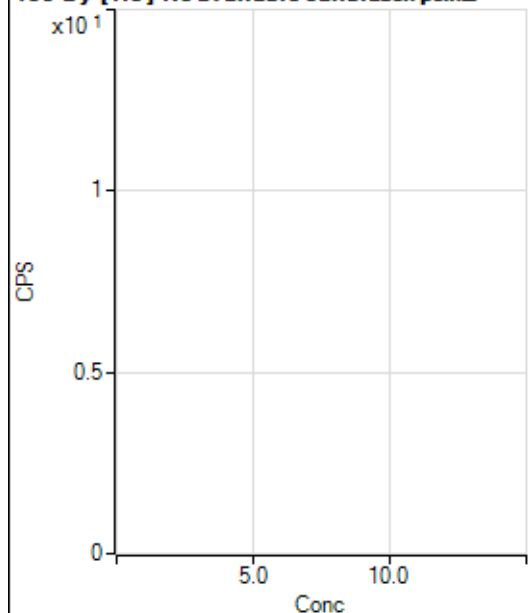
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			20.00		P	88.2
2	☐			26.67		P	25.0
3	☐			15.56		P	98.9
4	☐			28.89		P	35.2
5	☐			57.78		P	24.0
6	☐			128.90		P	35.2
7	☐			226.67		P	8.8
8	☐			40.00		P	33.3

150 Nd [He] No available calibration points

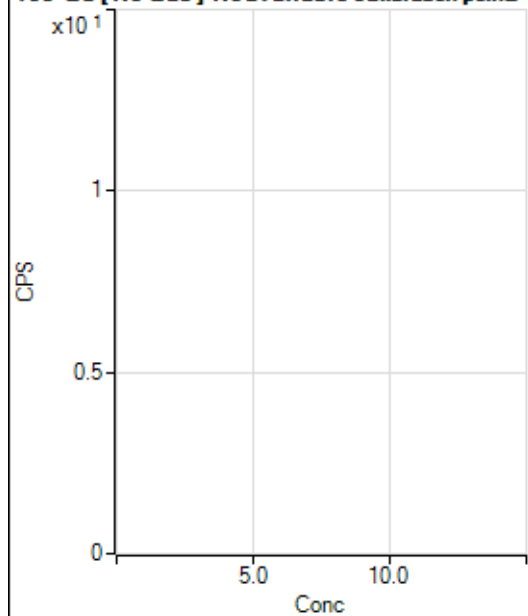
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			2.22		P	173.
4	☐			2.22		P	173.
5	☐			5.56		P	34.7
6	☐			20.00		P	72.7
7	☐			24.44		P	20.8
8	☐			11.11		P	34.6

156 Dy [No Gas] No available calibration points

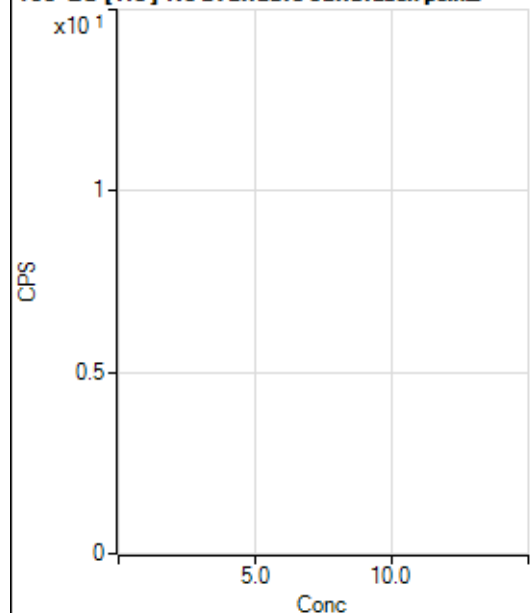
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	91.6
2	☐			19.44		P	49.5
3	☐			11.11		P	86.6
4	☐			22.22		P	21.6
5	☐			44.44		P	60.3
6	☐			105.56		P	36.5
7	☐			127.78		P	10.0
8	☐			663.93		P	0.7

156 Dy [He] No available calibration points

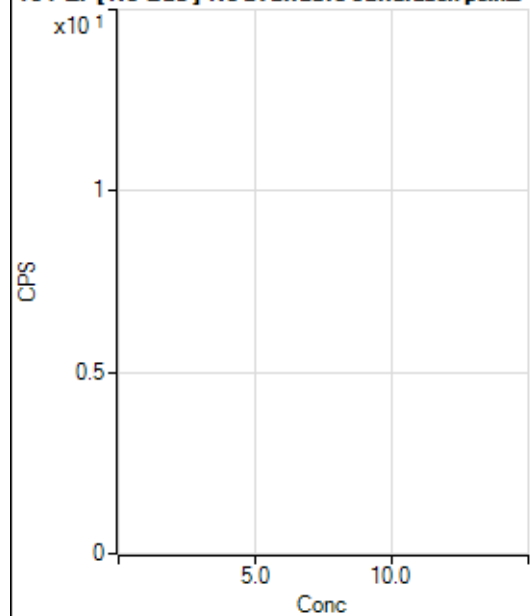
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			7.78		P	89.2
4	☐			8.89		P	21.6
5	☐			22.22		P	22.9
6	☐			36.67		P	24.0
7	☐			74.45		P	32.4
8	☐			242.22		P	17.9

160 Gd [No Gas] Noavailable calibration poin...

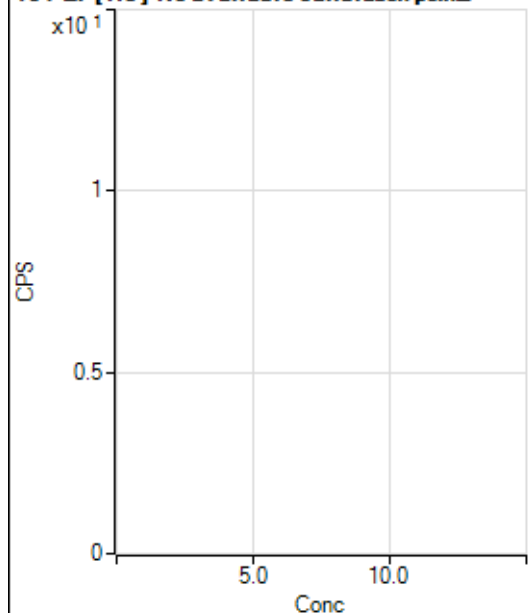
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	75.0
2	☐			25.00		P	57.7
3	☐			30.56		P	41.7
4	☐			55.55		P	37.8
5	☐			80.56		P	26.0
6	☐			125.00		P	48.1
7	☐			186.12		P	20.7
8	☐			505.58		P	11.0

160 Gd [He] No available calibration points

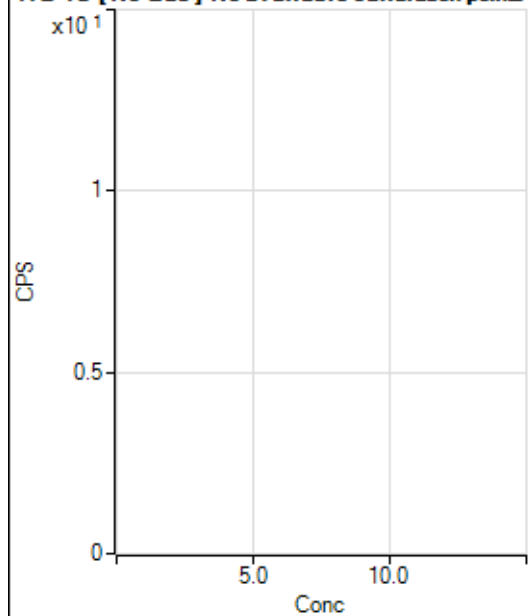
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	22.3
2	☐			23.34		P	65.5
3	☐			32.22		P	12.0
4	☐			27.78		P	34.6
5	☐			46.67		P	14.3
6	☐			72.22		P	18.7
7	☐			104.45		P	12.9
8	☐			315.56		P	9.0

164 Er [No Gas] No available calibration points

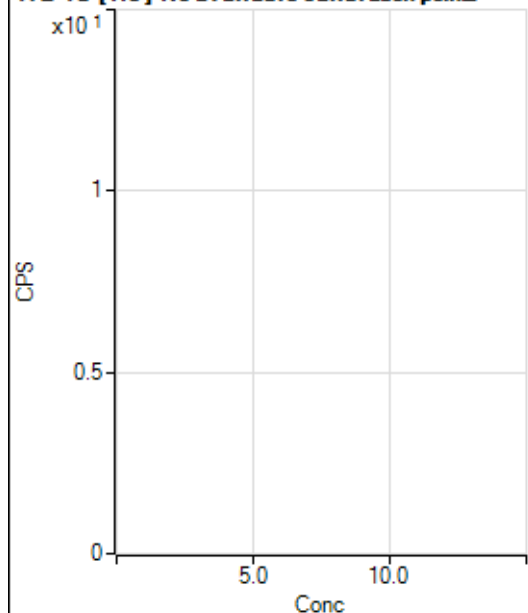
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	28.6
2	☐			36.11		P	35.3
3	☐			36.11		P	26.7
4	☐			52.78		P	24.1
5	☐			55.56		P	22.9
6	☐			72.23		P	37.1
7	☐			86.11		P	31.1
8	☐			66.67		P	21.7

164 Er [He] No available calibration points

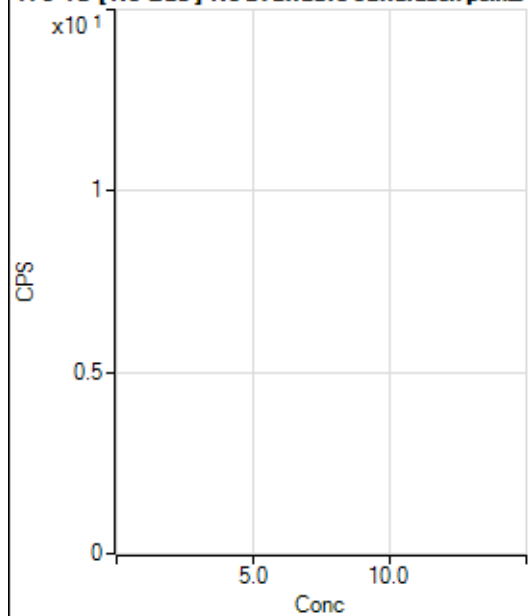
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			17.78		P	39.0
3	☐			22.22		P	52.7
4	☐			14.44		P	53.3
5	☐			12.22		P	56.8
6	☐			31.11		P	40.6
7	☐			30.00		P	0.0
8	☐			47.78		P	31.5

172 Yb [No Gas] No available calibration points

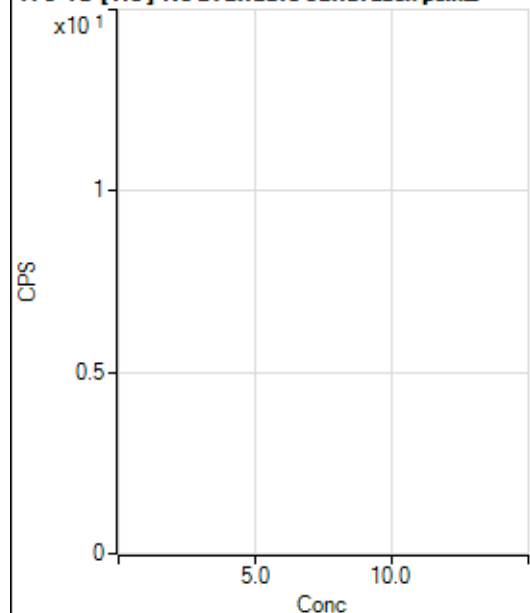
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			19.44		P	65.5
3	☐			41.67		P	40.0
4	☐			25.00		P	57.7
5	☐			50.00		P	60.1
6	☐			47.23		P	71.3
7	☐			72.22		P	56.9
8	☐			69.45		P	25.0

172 Yb [He] No available calibration points

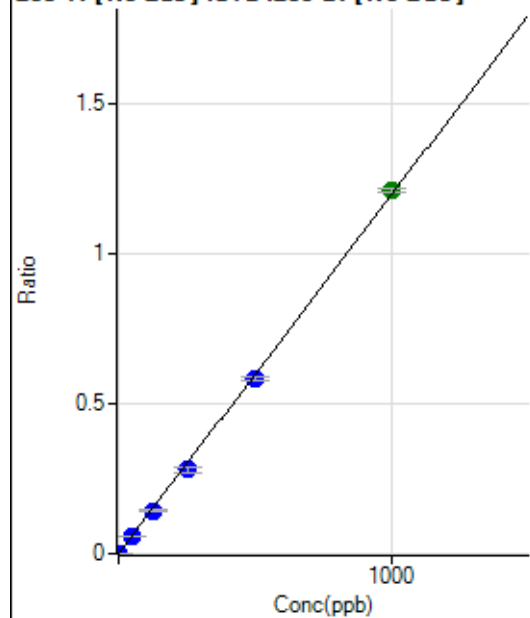
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.41		P	86.6
2	☐			16.67		P	33.3
3	☐			1.85		P	173.
4	☐			9.26		P	34.6
5	☐			16.67		P	57.7
6	☐			9.26		P	91.7
7	☐			35.18		P	39.7
8	☐			16.67		P	57.7

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			355.57		P	21.8
2	☐			363.90		P	12.6
3	☐			911.17		P	5.6
4	☐			1747.38		P	3.6
5	☐			3294.96		P	7.3
6	☐			6229.47		P	2.9
7	☐			12336.76		P	4.2
8	☐			397.24		P	23.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1857.58		P	4.4
2	☐			1844.61		P	0.8
3	☐			2150.22		P	1.9
4	☐			2539.19		P	1.0
5	☐			3306.03		P	4.6
6	☐			4697.22		P	4.8
7	☐			7428.14		P	4.4
8	☐			1835.35		P	7.0

203 Tl [No Gas] ISTD :209 Bi [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	247.23	0.0001	P	10.8
2	☐	1.000	0.842	2541.99	0.0011	P	8.4
3	☐	50.000	48.110	134382.65	0.0578	P	0.7
4	☐	125.000	119.381	336919.54	0.1432	P	2.0
5	☐	250.000	233.039	681670.12	0.2794	P	8.1
6	☐	500.000	488.225	1372985.68	0.5853	P	1.7
7	☐	1000.000	1010.925	2878387.52	1.2117	A	1.0
8	☐			755.60	0.0003	P	8.0

$$y = 0.0012 * x + 1.0897E-004$$

$$R = 0.9997$$

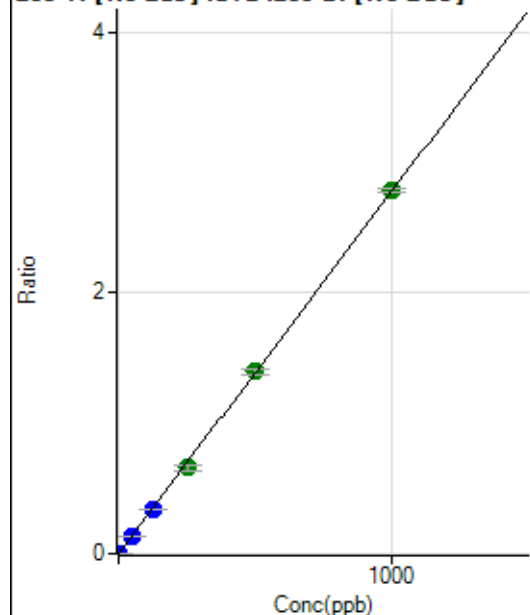
$$DL = 0.0294$$

$$BEC = 0.09092$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	594.48	0.0003	P	15.1
2	☐	1.000	0.905	6307.26	0.0028	P	1.8
3	☐	50.000	48.914	316633.54	0.1361	P	1.7
4	☐	125.000	121.681	795826.69	0.3383	P	2.5
5	☐	250.000	237.796	1612431.59	0.6608	A	7.7
6	☐	500.000	502.518	3274907.82	1.3961	A	3.3
7	☐	1000.000	1002.261	6613947.63	2.7842	A	1.1
8	☐			1886.43	0.0008	P	5.0

$$y = 0.0028 * x + 2.6202E-004$$

$$R = 0.9999$$

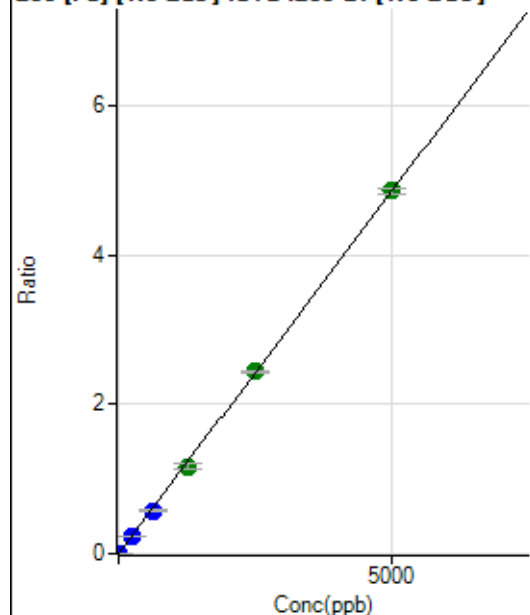
$$DL = 0.0426$$

$$BEC = 0.09433$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	329.64	0.0001	P	22.5
2	☐	1.000	0.924	2365.08	0.0010	P	5.0
3	☐	250.000	238.383	537680.19	0.2312	P	2.5
4	☐	625.000	595.780	1358949.28	0.5775	P	1.3
5	☐	1250.000	1207.872	2858596.22	1.1707	A	6.2
6	☐	2500.000	2509.687	5706130.68	2.4322	A	1.5
7	☐	5000.000	5009.922	11531529.89	4.8551	A	1.8
8	☐			5782.95	0.0026	P	4.1

$$y = 9.6907E-004 * x + 1.4543E-004$$

$$R = 1.0000$$

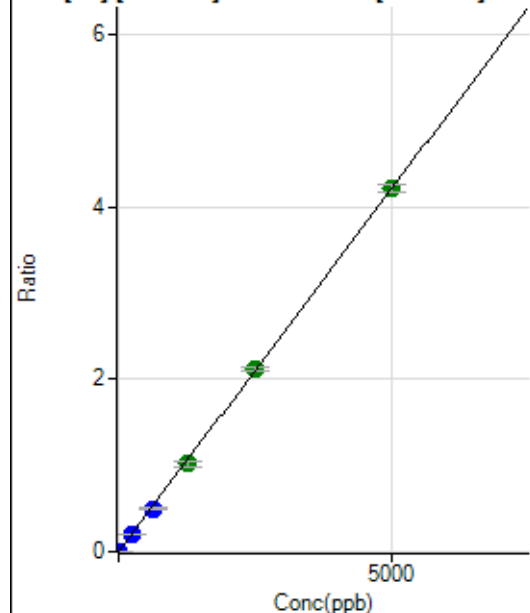
$$DL = 0.1012$$

$$BEC = 0.1501$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	272.23	0.0001	P	14.0
2	☐	1.000	0.865	1927.96	0.0008	P	9.0
3	☐	250.000	241.933	473730.36	0.2037	P	0.6
4	☐	625.000	593.519	1175152.14	0.4995	P	2.3
5	☐	1250.000	1210.234	2484584.09	1.0183	A	7.7
6	☐	2500.000	2526.978	4987652.37	2.1261	A	1.9
7	☐	5000.000	5000.791	9992752.42	4.2073	A	2.2
8	☐			5158.53	0.0023	P	3.3

$$y = 8.4131\text{E-}004 * x + 1.1992\text{E-}004$$

$$R = 0.9999$$

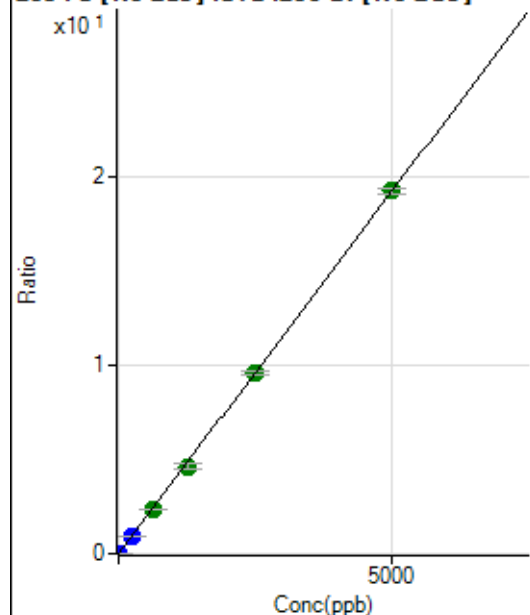
$$DL = 0.06007$$

$$BEC = 0.1425$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1261.16	0.0006	P	8.4
2	☐	1.000	0.937	9464.56	0.0042	P	1.9
3	☐	250.000	241.005	2158325.28	0.9279	P	0.8
4	☐	625.000	610.193	5526060.92	2.3484	A	1.5
5	☐	1250.000	1203.703	11302657.58	4.6321	A	7.6
6	☐	2500.000	2497.583	22545637.14	9.6107	A	2.2
7	☐	5000.000	5015.083	45834007.62	19.2975	A	1.5
8	☐			23704.24	0.0106	P	2.1

$$y = 0.0038 * x + 5.5595\text{E-}004$$

$$R = 1.0000$$

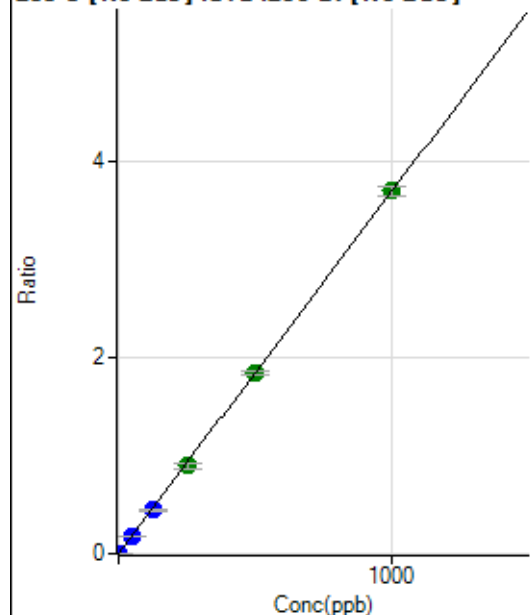
$$DL = 0.03627$$

$$BEC = 0.1445$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.56	0.0000	P	41.6
2	☐	1.000	0.863	7282.89	0.0032	P	4.7
3	☐	50.000	46.830	402593.26	0.1731	P	0.5
4	☐	125.000	120.067	1043918.72	0.4437	P	3.1
5	☐	250.000	243.689	2198885.62	0.9006	A	6.4
6	☐	500.000	499.926	4335285.38	1.8475	A	2.0
7	☐	1000.000	1002.390	8797604.28	3.7044	A	2.5
8	☐			1475.38	0.0007	P	39.2

$$y = 0.0037 * x + 1.3457E-005$$

$$R = 1.0000$$

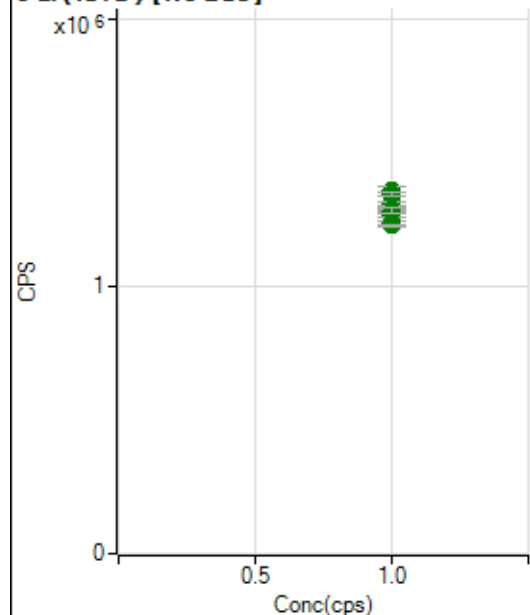
$$DL = 0.004541$$

$$BEC = 0.003642$$

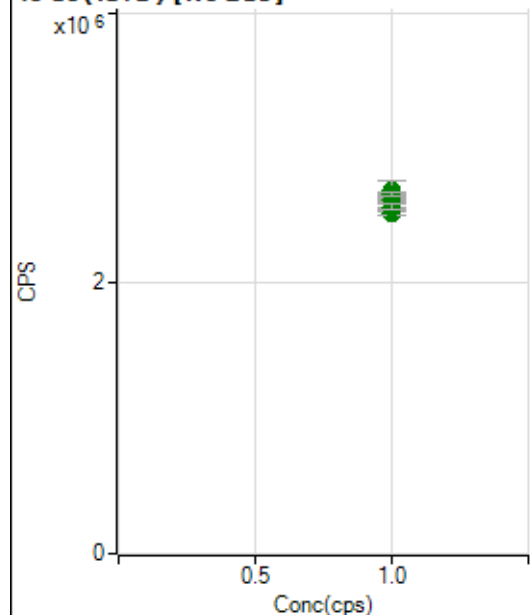
Weight: <None>

Min Conc: 0

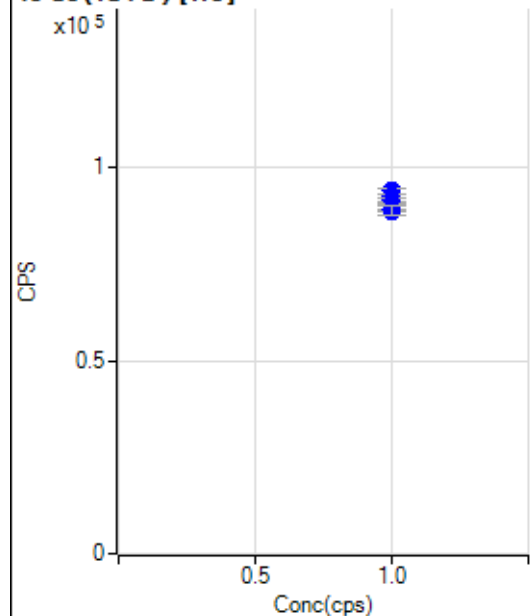
6 Li (ISTD) [No Gas]



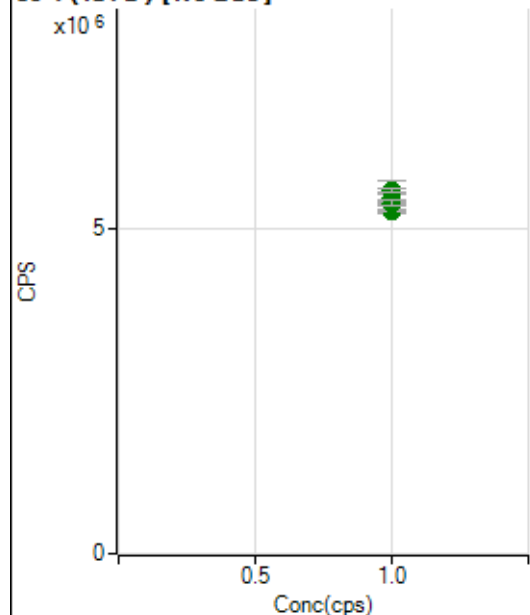
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1236052.77		A	0.9
2	☐	1.000		1227032.65		A	0.9
3	☐	1.000		1269098.50		A	1.3
4	☐	1.000		1285219.64		A	0.3
5	☐	1.000		1357227.07		A	2.6
6	☐	1.000		1309793.87		A	1.2
7	☐	1.000		1346301.69		A	1.4
8	☐	1.000		1283792.89		A	2.2

45 Sc (ISTD) [No Gas]

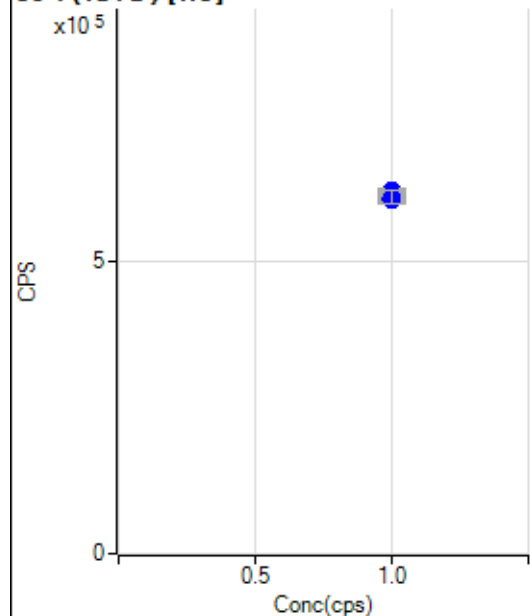
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2536867.55		A	2.1
2	☐	1.000		2521808.29		A	1.6
3	☐	1.000		2604617.76		A	1.0
4	☐	1.000		2600697.41		A	5.1
5	☐	1.000		2685532.53		A	6.0
6	☐	1.000		2616149.61		A	1.5
7	☐	1.000		2662178.83		A	1.5
8	☐	1.000		2567037.50		A	1.6

45 Sc (ISTD) [He]

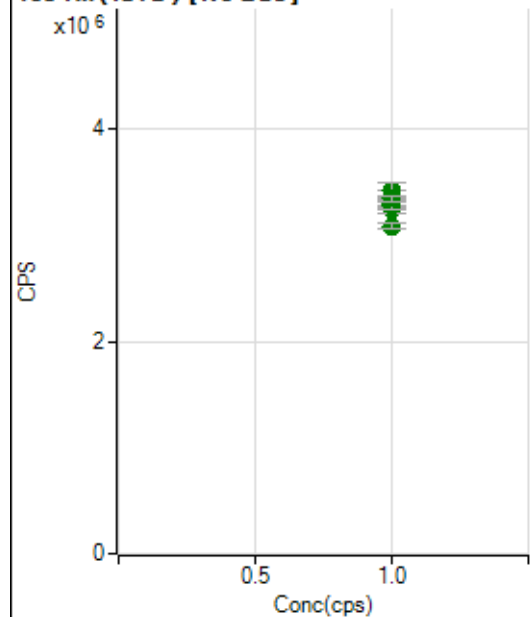
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		90659.76		P	1.2
2	☐	1.000		93944.62		P	1.3
3	☐	1.000		92734.65		P	1.1
4	☐	1.000		91528.13		P	1.2
5	☐	1.000		90848.33		P	0.7
6	☐	1.000		88676.03		P	0.6
7	☐	1.000		90236.57		P	0.7
8	☐	1.000		88927.19		P	2.9

89 Y (ISTD) [No Gas]

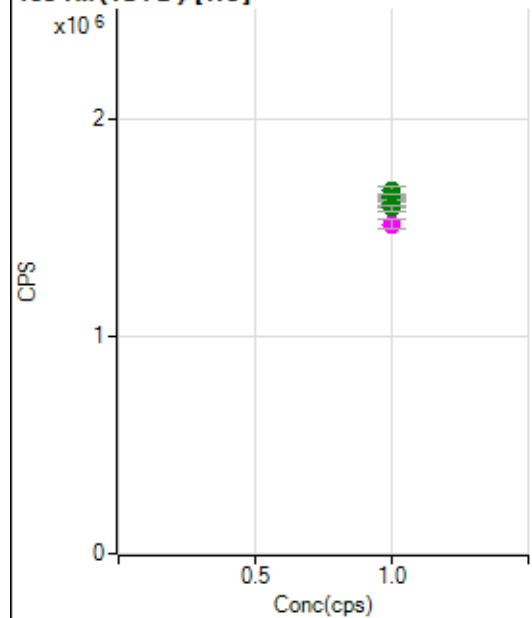
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5280818.91		A	1.3
2	☐	1.000		5279793.74		A	0.7
3	☐	1.000		5406973.01		A	0.8
4	☐	1.000		5487568.95		A	1.9
5	☐	1.000		5577281.72		A	6.0
6	☐	1.000		5440097.28		A	0.3
7	☐	1.000		5589748.81		A	1.2
8	☐	1.000		5406605.68		A	1.9

89 Y (ISTD) [He]

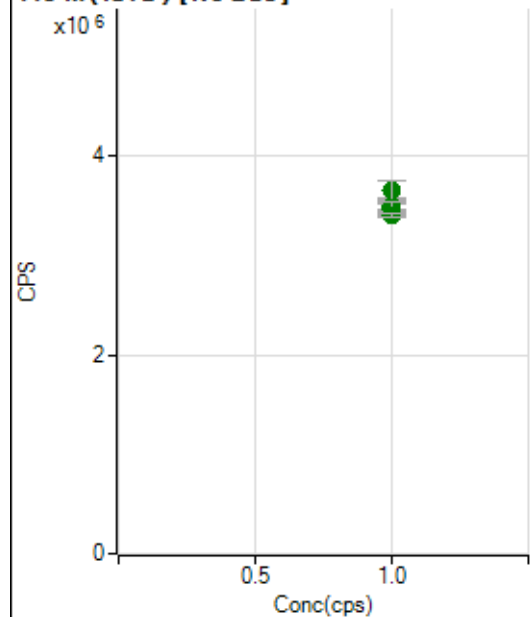
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		613311.45		P	0.7
2	☐	1.000		620039.40		P	0.7
3	☐	1.000		622601.85		P	1.5
4	☐	1.000		617195.11		P	0.9
5	☐	1.000		618648.90		P	0.1
6	☐	1.000		605997.24		P	0.5
7	☐	1.000		607988.34		P	1.0
8	☐	1.000		611577.95		P	3.5

103 Rh (ISTD) [No Gas]

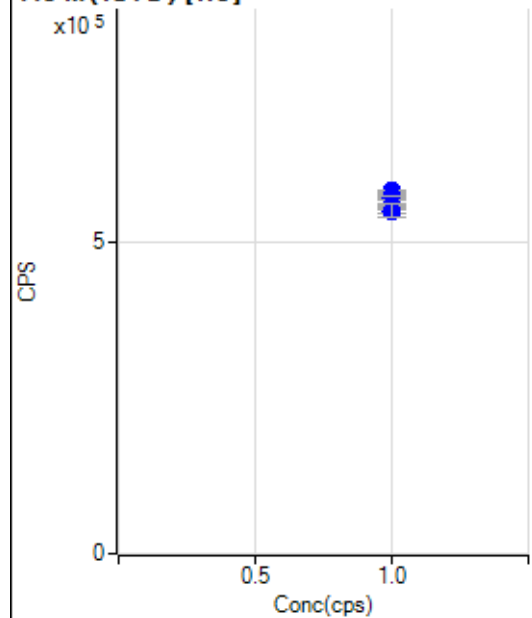
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3234452.52		A	2.0
2	☐	1.000		3292098.36		A	1.0
3	☐	1.000		3333643.91		A	0.8
4	☐	1.000		3343074.71		A	4.5
5	☐	1.000		3416466.98		A	4.7
6	☐	1.000		3284710.01		A	2.2
7	☐	1.000		3341408.82		A	1.8
8	☐	1.000		3087063.13		A	1.2

103 Rh (ISTD) [He]

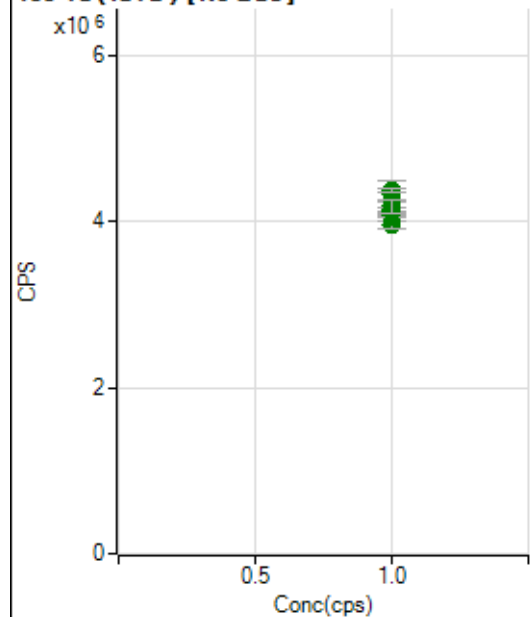
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1652805.08		A	0.5
2	☐	1.000		1643252.27		A	1.2
3	☐	1.000		1669709.40		A	2.2
4	☐	1.000		1629662.30		A	1.4
5	☐	1.000		1638103.60		A	1.6
6	☐	1.000		1611005.72		A	1.9
7	☐	1.000		1590608.07		A	1.9
8	☐	1.000		1516293.49		M	3.0

115 In (ISTD) [No Gas]

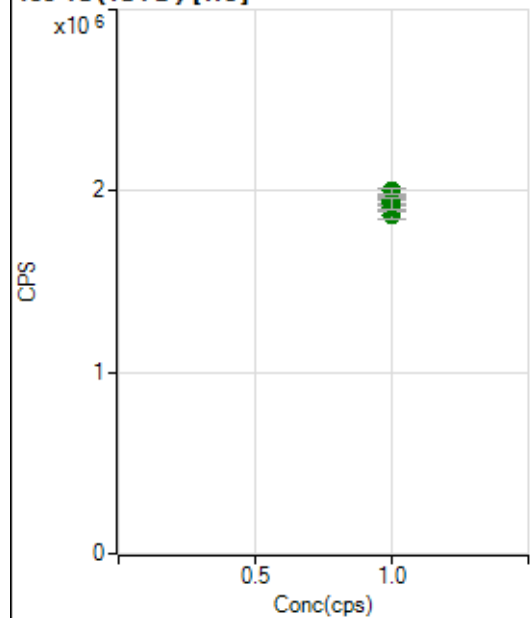
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3421051.73		A	2.1
2	☐	1.000		3439291.05		A	1.2
3	☐	1.000		3533228.96		A	1.0
4	☐	1.000		3506847.99		A	4.1
5	☐	1.000		3649570.90		A	5.5
6	☐	1.000		3461941.17		A	3.1
7	☐	1.000		3490564.14		A	2.6
8	☐	1.000		3401650.39		A	1.4

115 In (ISTD) [He]

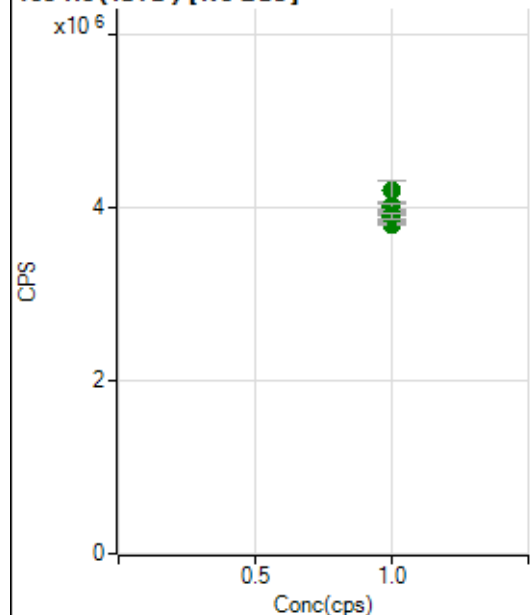
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		573777.12		P	0.5
2	☐	1.000		577231.49		P	0.7
3	☐	1.000		583675.80		P	0.3
4	☐	1.000		575181.17		P	0.8
5	☐	1.000		572267.95		P	0.7
6	☐	1.000		559306.86		P	0.3
7	☐	1.000		550567.60		P	0.9
8	☐	1.000		552009.32		P	3.6

159 Tb (ISTD) [No Gas]

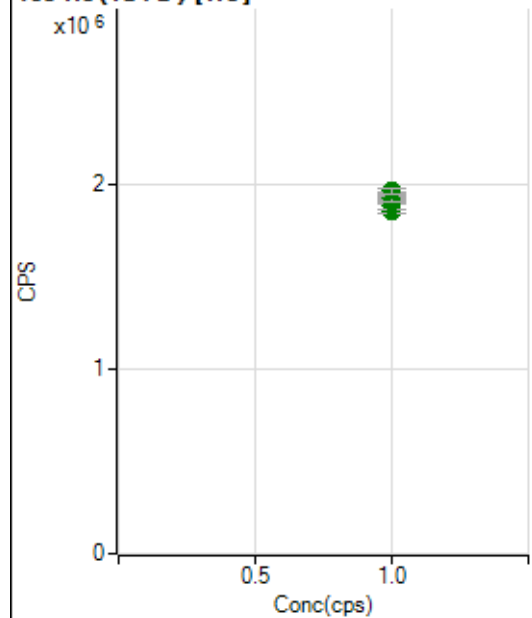
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3961357.65		A	2.4
2	☐	1.000		4057743.86		A	0.6
3	☐	1.000		4083794.18		A	1.6
4	☐	1.000		4143268.65		A	4.8
5	☐	1.000		4338591.50		A	7.5
6	☐	1.000		4126423.58		A	1.7
7	☐	1.000		4366503.48		A	1.1
8	☐	1.000		4178941.26		A	3.9

159 Tb (ISTD) [He]

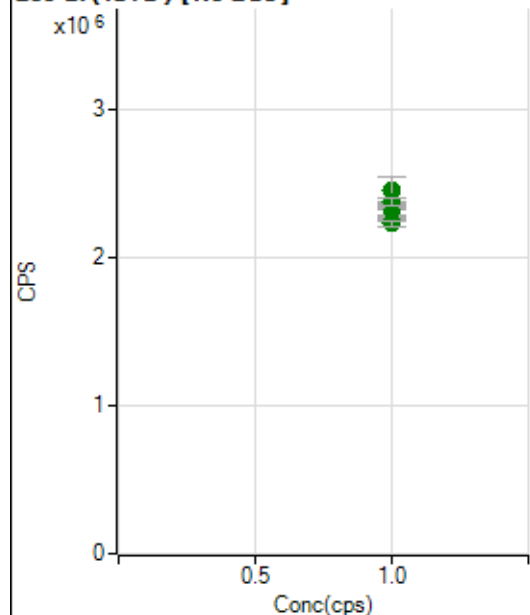
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1868470.53		A	1.9
2	☐	1.000		1909467.70		A	1.4
3	☐	1.000		1941339.80		A	1.5
4	☐	1.000		1904252.44		A	1.4
5	☐	1.000		1956078.41		A	2.1
6	☐	1.000		1943855.55		A	2.0
7	☐	1.000		2001189.19		A	1.4
8	☐	1.000		1933732.73		A	3.3

165 Ho (ISTD) [No Gas]

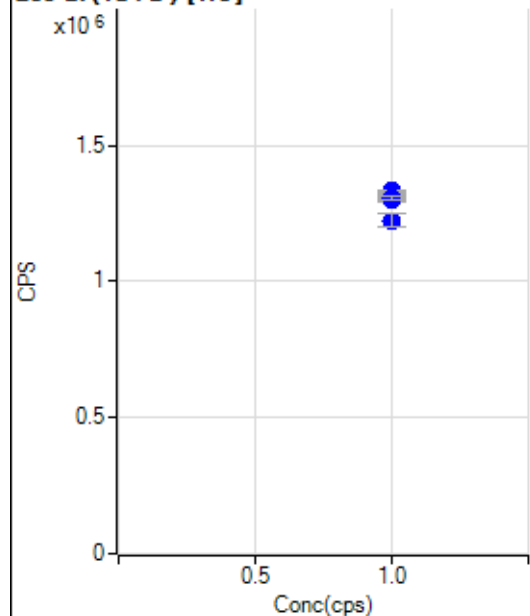
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3828412.02		A	1.3
2	☐	1.000		3805331.94		A	0.2
3	☐	1.000		3932386.81		A	0.9
4	☐	1.000		3880143.10		A	3.3
5	☐	1.000		4193791.80		A	5.6
6	☐	1.000		4012992.06		A	1.6
7	☐	1.000		4004599.39		A	1.8
8	☐	1.000		3905303.30		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1859604.22		A	1.0
2	☐	1.000		1888933.17		A	1.9
3	☐	1.000		1911595.06		A	1.5
4	☐	1.000		1912911.76		A	1.2
5	☐	1.000		1949653.08		A	1.5
6	☐	1.000		1921856.50		A	0.7
7	☐	1.000		1928125.68		A	1.9
8	☐	1.000		1968810.96		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2268653.66		A	0.8
2	☐	1.000		2273469.17		A	0.6
3	☐	1.000		2326106.18		A	0.6
4	☐	1.000		2353538.87		A	2.1
5	☐	1.000		2449825.33		A	7.9
6	☐	1.000		2346230.97		A	1.0
7	☐	1.000		2375756.77		A	2.6
8	☐	1.000		2227115.68		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1302727.94		P	1.1
2	☐	1.000		1326253.03		P	1.2
3	☐	1.000		1330897.22		P	0.8
4	☐	1.000		1317403.29		P	1.0
5	☐	1.000		1332289.81		P	0.4
6	☐	1.000		1306037.21		P	1.6
7	☐	1.000		1305526.57		P	0.7
8	☐	1.000		1224834.95		P	3.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8012722MS1.b
Acq. Date-Time 2022-01-27 11:52:35
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3419	34193.46			0.646	5.000
24		35656	356564.34			0.930	5.000
25		4700	47004.75			0.482	5.000
26		5565	55653.63			1.101	5.000
59		8873	88727.77			0.869	5.000
113		3664	36635.33			0.439	5.000
115		13309	133086.83			1.110	5.000
206		5210	52095.50			0.808	5.000
207		4314	43137.55			1.131	5.000
208		10550	105495.35			0.497	5.000
220		2	15.60			28.343	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

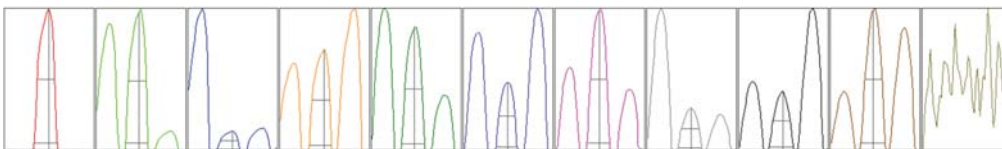
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3435	3434	3428	3382	3417
24	35386	36019	35959	35277	35642
25	4701	4718	4720	4663	4701
26	5621	5584	5599	5463	5560
59	8968	8855	8911	8759	8871
113	3674	3653	3641	3671	3679
115	13270	13460	13466	13146	13201
206	5216	5185	5172	5196	5279
207	4291	4270	4306	4305	4397
208	10555	10464	10598	10546	10584

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	2	2	2	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6269.48	9.00	8.90 - 9.10	
24	62264.94	23.95	23.90 - 24.10	
25	8449.35	25.00	24.90 - 25.10	
26	9728.42	26.00	25.90 - 26.10	
59	16166.05	58.95	58.90 - 59.10	
113	7132.10	113.00	112.90 - 113.10	
115	25277.68	115.00	114.90 - 115.10	
206	9435.11	206.00	205.90 - 206.10	
207	7986.35	207.00	206.90 - 207.10	
208	19307.89	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.772	0.900	
24	0.62	0.740	0.900	
25	0.60	0.742	0.900	
26	0.61	0.740	0.900	
59	0.57	0.776	0.900	
113	0.54	0.695	0.900	
115	0.55	0.764	0.900	
206	0.58	0.788	0.900	
207	0.57	0.818	0.900	
208	0.58	0.816	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.8 V	Deflect	15.6 V
Extract 2	-245.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.9 mm
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EM

Discriminator	4.1 mV	Analog HV	2291 V	Pulse HV	1613 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2268	22676.19			0.576	
89		8615	86147.87			0.541	
205		10349	103493.26			0.671	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2256	2280	2272	2279	2252
89	8628	8652	8656	8592	8545
205	10406	10394	10396	10256	10294

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.8 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-245.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.9 mm
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EM

Discriminator	4.1 mV	Analog HV	2291 V	Pulse HV	1613 V
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