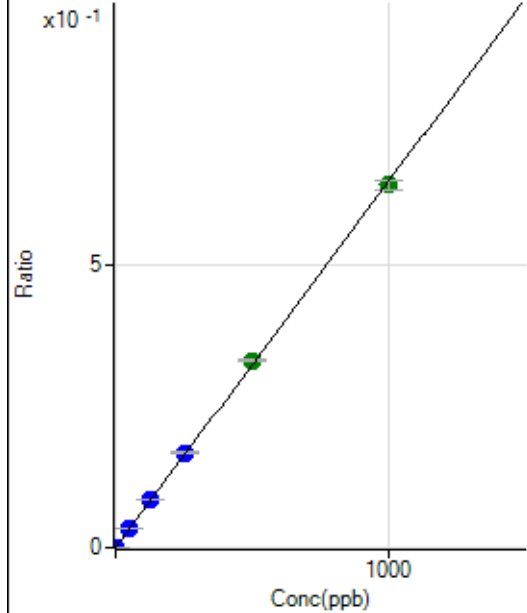


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011123MS.b\
Analysis File: P8011123MS.batch.bin
DA Date-Time: 2023-01-12 01:08:06
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-01-11 12:11:44
2	005CALS.d	S02	2023-01-11 12:14:54
3	006CALS.d	S03	2023-01-11 12:18:06
4	007CALS.d	S04	2023-01-11 12:21:47
5	008CALS.d	S05	2023-01-11 12:24:55
6	009CALS.d	S06	2023-01-11 12:28:02
7	010CALS.d	S07	2023-01-11 12:31:10
8	012CALS.d	S08	2023-01-11 12:38:54

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.25	0.0000	P	15.0
2	☐	1.000	1.069	3223.30	0.0007	P	4.5
3	☐	50.000	53.263	161652.76	0.0346	P	2.1
4	☐	125.000	130.388	403139.07	0.0847	P	1.9
5	☐	250.000	259.127	790248.81	0.1682	P	0.9
6	☐	500.000	511.733	1561358.71	0.3322	A	0.6
7	☐	1000.000	991.015	2977973.70	0.6434	A	2.5
8	☐			1076.99	0.0002	P	4.7

$$y = 6.4919\text{E-}004 * x + 5.8334\text{E-}006$$

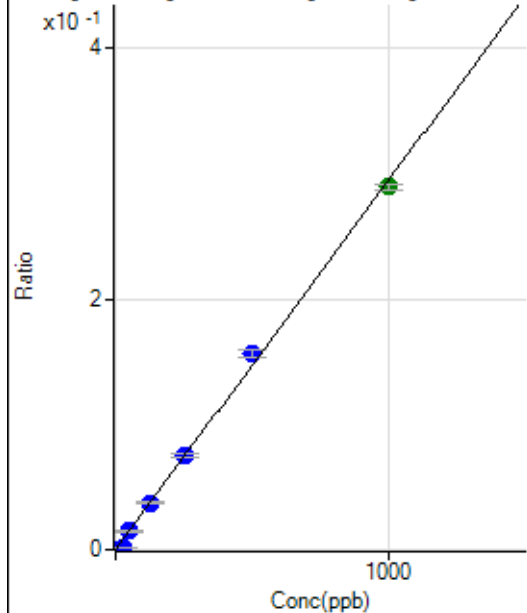
$$R = 0.9998$$

$$DL = 0.004035$$

$$BEC = 0.008986$$

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	387.93	0.0001	P	7.5
2	☐	25.000	6.993	9880.72	0.0021	P	2.2
3	☐	50.000	50.034	69160.59	0.0148	P	7.7
4	☐	125.000	126.324	177460.14	0.0373	P	3.5
5	☐	250.000	255.904	354157.37	0.0754	P	4.2
6	☐	500.000	532.014	736068.93	0.1566	P	3.8
7	☐	1000.000	982.800	1339271.86	0.2893	A	1.8
8	☐			33628.98	0.0074	P	5.2

$$y = 2.9427\text{E-}004 * x + 8.6008\text{E-}005$$

$$R = 0.9989$$

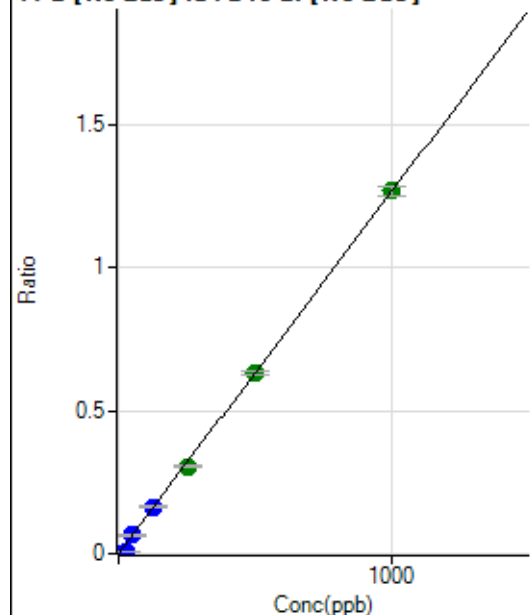
$$DL = 0.06561$$

$$BEC = 0.2923$$

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	1708.44	0.0004	P	2.4
2	☐	25.000	6.968	42365.13	0.0092	P	0.9
3	☐	50.000	51.004	302987.83	0.0649	P	7.3
4	☐	125.000	128.145	773604.64	0.1624	P	3.1
5	☐	250.000	241.249	1434813.56	0.3055	A	1.9
6	☐	500.000	499.582	2970680.62	0.6321	A	3.0
7	☐	1000.000	1002.404	5870775.40	1.2680	A	2.9
8	☐			146495.52	0.0323	P	5.0

$$y = 0.0013 * x + 3.7893E-004$$

$$R = 0.9998$$

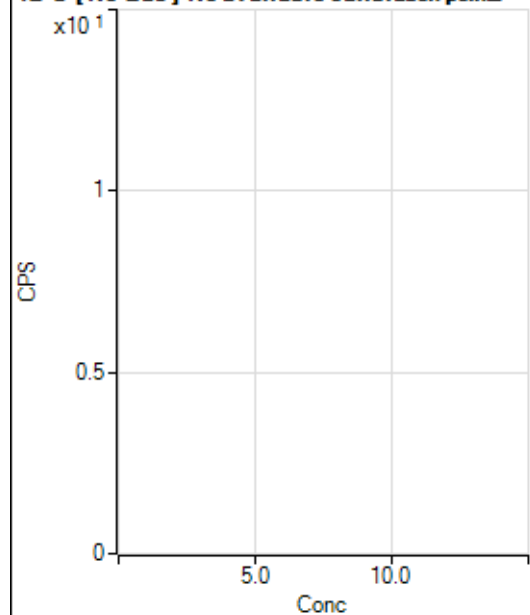
$$DL = 0.02185$$

$$BEC = 0.2997$$

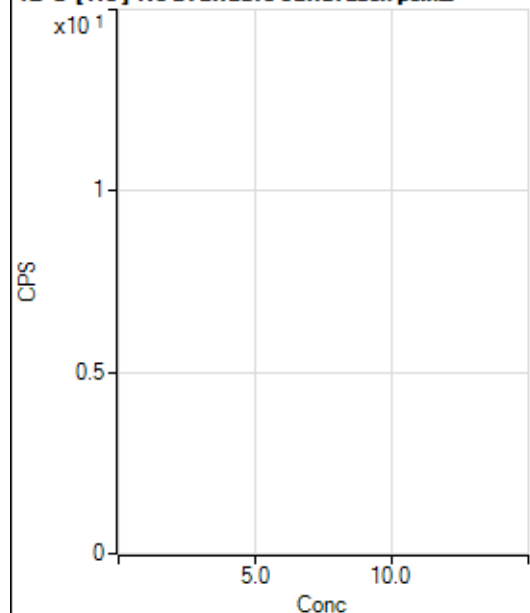
Weight: <None>

Min Conc: 0

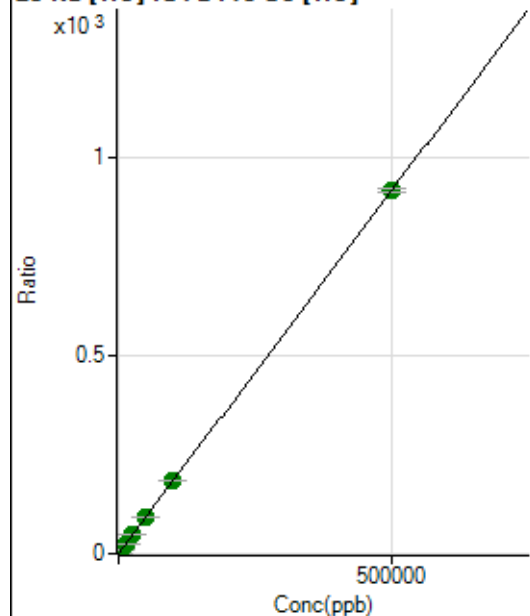
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			6667418.55		A	0.5
2	☐			6676773.02		A	1.1
3	☐			6796382.44		A	1.0
4	☐			6966277.59		A	0.7
5	☐			7035630.54		A	1.0
6	☐			7119226.46		A	1.2
7	☐			7227089.57		A	1.7
8	☐			7556660.76		A	3.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83129.60		P	1.3
2	☐			84076.80		P	0.7
3	☐			86400.80		P	0.2
4	☐			86121.73		P	0.8
5	☐			89474.89		P	1.5
6	☐			91531.39		P	1.9
7	☐			94992.40		P	0.1
8	☐			104897.69		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18487.16	0.1030	P	2.4
2	☐	500.000	453.136	172758.19	0.9324	P	2.4
3	☐	5000.000	5242.211	1780964.77	9.6974	A	4.6
4	☐	12500.000	12811.924	4291228.87	23.5517	A	1.4
5	☐	25000.000	25934.291	8540404.27	47.5685	A	2.2
6	☐	50000.000	50348.473	16745893.26	92.2518	A	2.3
7	☐	100000.00	99889.366	33414177.14	182.9226	A	0.6
8	☐	500000.00	499930.39	173796009.4	915.0857	A	1.0

$$y = 0.0018 * x + 0.1030$$

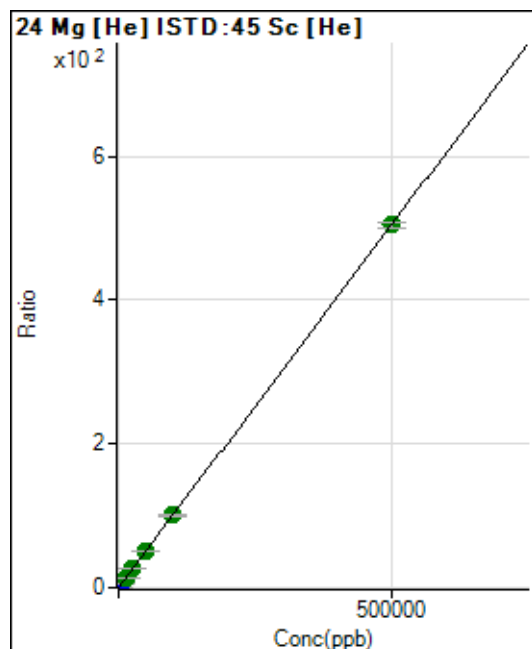
$$R = 1.0000$$

$$DL = 4.064$$

$$BEC = 56.29$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	352.79	0.0020	P	26.0
2	☐	500.000	455.007	85400.79	0.4613	P	5.1
3	☐	5000.000	5046.637	935945.65	5.0960	P	3.2
4	☐	12500.000	13063.488	2402997.75	13.1882	A	1.8
5	☐	25000.000	25792.992	4674892.68	26.0374	A	2.7
6	☐	50000.000	50404.138	9235384.23	50.8798	A	1.4
7	☐	100000.00	99386.052	18325645.90	100.3220	A	0.6
8	☐	500000.00	500028.21	95862790.34	504.7293	A	1.4

$$y = 0.0010 * x + 0.0020$$

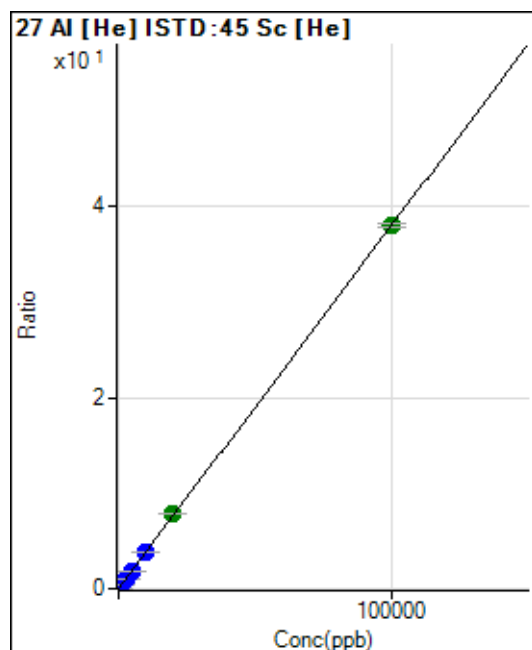
$$R = 1.0000$$

$$DL = 1.524$$

$$BEC = 1.952$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.74	0.0004	P	8.9
2	☐	20.000	19.112	1416.98	0.0076	P	4.1
3	☐	1000.000	992.286	69317.34	0.3774	P	2.0
4	☐	2500.000	2480.296	171772.22	0.9428	P	1.2
5	☐	5000.000	4949.042	337671.11	1.8808	P	2.6
6	☐	10000.000	9860.986	680201.68	3.7470	P	0.1
7	☐	20000.000	20592.273	1429271.42	7.8244	A	1.2
8	☐	100000.00	99898.565	7209425.09	37.9566	A	1.2

$$y = 3.7995E-004 * x + 3.8317E-004$$

$$R = 1.0000$$

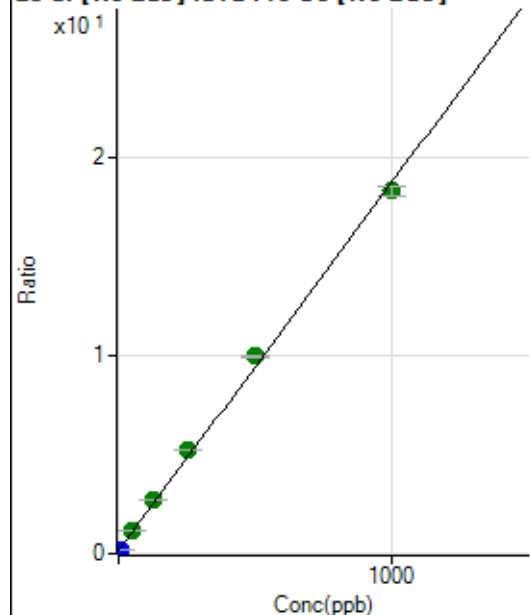
$$DL = 0.2708$$

$$BEC = 1.008$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	768006.45	0.1516	P	1.3
2	☐	10.000	0.465	813439.51	0.1603	P	1.1
3	☐	50.000	53.826	6054472.62	1.1539	A	1.4
4	☐	125.000	139.739	14255284.52	2.7536	A	1.1
5	☐	250.000	274.659	27535025.62	5.2658	A	1.3
6	☐	500.000	528.078	51558862.96	9.9846	A	0.7
7	☐	1000.000	977.858	96326059.10	18.3596	A	2.6
8	☐			1274556.04	0.2486	A	4.9

$$y = 0.0186 * x + 0.1516$$

$$R = 0.9988$$

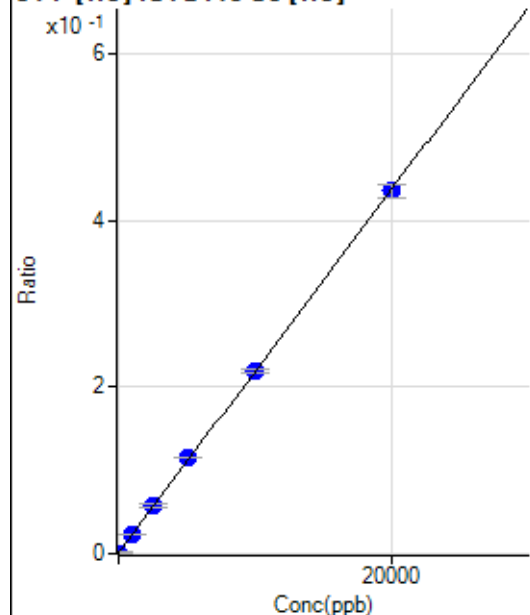
$$DL = 0.3066$$

$$BEC = 8.142$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-8.104	136.11	0.0008	P	29.9
2	☐	0.000	8.104	205.56	0.0011	P	21.5
3	☐	1000.000	978.556	4089.59	0.0223	P	1.3
4	☐	2500.000	2599.074	10490.17	0.0576	P	4.3
5	☐	5000.000	5281.016	20832.10	0.1160	P	0.8
6	☐	10000.000	9985.322	39674.23	0.2185	P	2.5
7	☐	20000.000	19925.773	79493.35	0.4352	P	3.4
8	☐			186.12	0.0010	P	6.8

$$y = 2.1793E-005 * x + 9.3676E-004$$

$$R = 0.9999$$

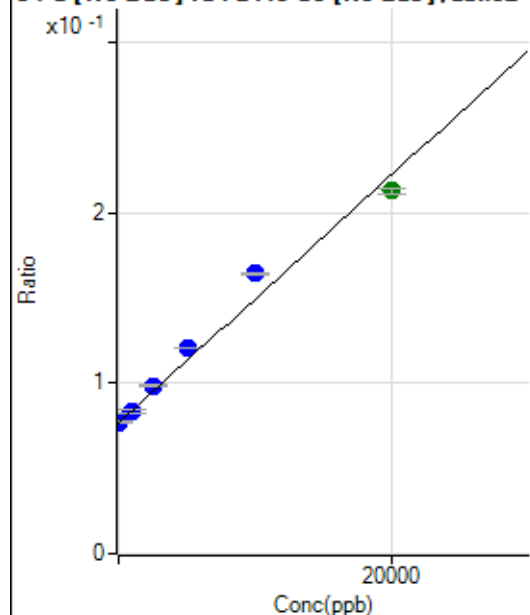
$$DL = 32.11$$

$$BEC = 42.98$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-8.441	389283.27	0.0768	P	0.9
2	☐	0.000	8.441	390638.03	0.0770	P	1.6
3	☐	1000.000	917.163	438566.80	0.0836	P	2.3
4	☐	2500.000	2998.975	511329.90	0.0988	P	1.0
5	☐	5000.000	6018.945	631647.84	0.1208	P	0.8
6	☐	10000.000	12005.896	849187.41	0.1645	P	1.2
7	☐	20000.000	18684.086	1118502.43	0.2131	A	1.3
8	☐			342568.89	0.0669	P	1.8

$$y = 7.2918\text{E-}006 * x + 0.0769$$

$$R = 0.9901$$

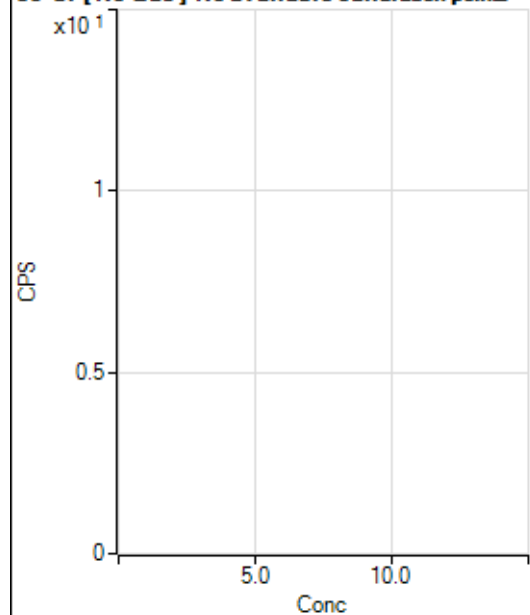
$$DL = 408.5$$

$$BEC = 1.055\text{E}+04$$

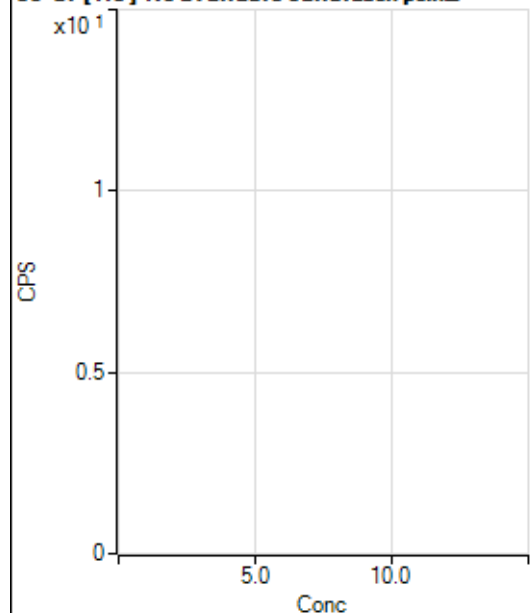
Weight: <None>

Min Conc: 0

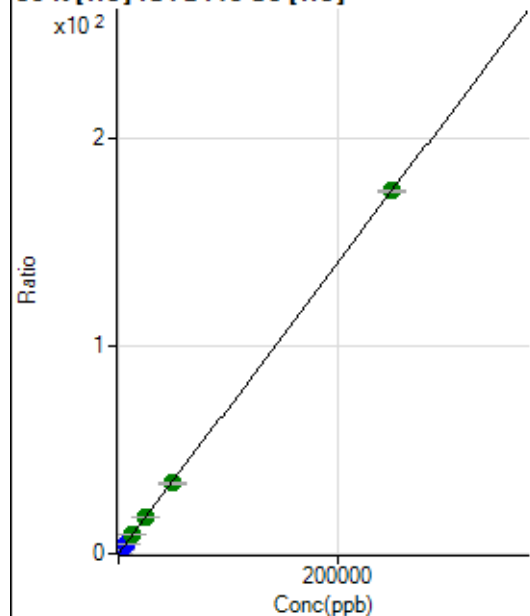
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			516456.00		P	0.3
2	☐			533276.54		P	0.7
3	☐			531292.19		P	0.4
4	☐			524194.83		P	0.2
5	☐			521147.47		P	0.7
6	☐			502118.27		P	0.7
7	☐			504986.27		P	0.4
8	☐			510838.22		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3906.17		P	3.1
2	☐			4281.30		P	6.8
3	☐			4047.90		P	3.1
4	☐			3872.84		P	2.0
5	☐			3895.08		P	5.4
6	☐			3778.37		P	8.6
7	☐			3792.24		P	1.7
8	☐			4006.21		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20503.85	0.1143	P	3.4
2	☐	500.000	444.789	78575.25	0.4243	P	3.8
3	☐	2500.000	2435.547	332758.23	1.8118	P	2.3
4	☐	6250.000	6057.219	790014.32	4.3359	P	1.2
5	☐	12500.000	12748.953	1615841.46	8.9998	A	1.4
6	☐	25000.000	25100.873	3197375.98	17.6087	A	2.3
7	☐	50000.000	48553.019	6202522.14	33.9540	A	1.7
8	☐	250000.00	250272.43	33151102.48	174.5456	A	0.7

$$y = 6.9697E-004 * x + 0.1143$$

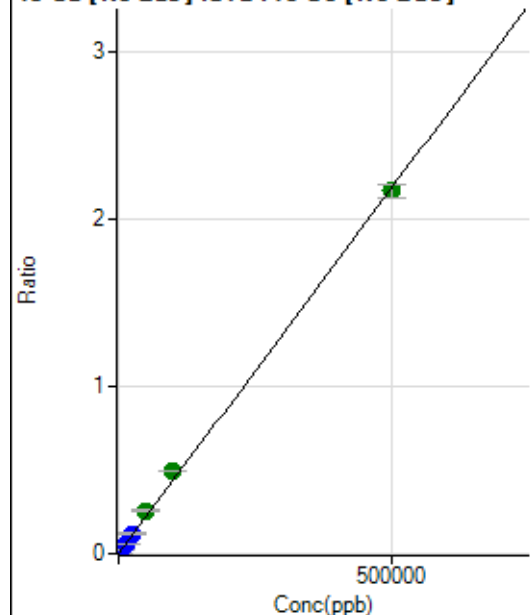
$$R = 1.0000$$

$$DL = 16.56$$

$$BEC = 163.9$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.98	0.0000	P	10.5
2	☐	500.000	482.017	10818.96	0.0021	P	2.6
3	☐	5000.000	5489.289	125804.48	0.0240	P	2.0
4	☐	12500.000	14011.321	316597.09	0.0612	P	0.9
5	☐	25000.000	27535.645	628340.11	0.1202	P	1.3
6	☐	50000.000	58586.194	1319874.73	0.2556	A	3.5
7	☐	100000.00	112962.61	2586255.24	0.4929	A	1.4
8	☐	500000.00	496379.41	11091880.20	2.1657	A	4.0

$$y = 4.3629E-006 * x + 2.8615E-005$$

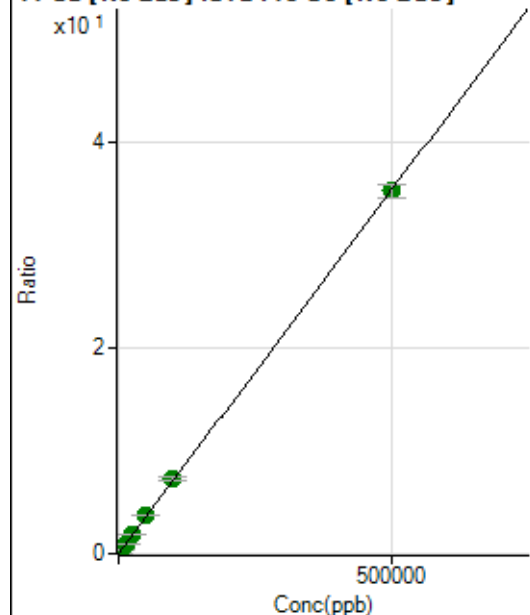
$$R = 0.9995$$

$$DL = 2.075$$

$$BEC = 6.559$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8944.19	0.0018	P	2.1
2	☐	500.000	474.281	179027.04	0.0353	P	3.0
3	☐	5000.000	5315.976	1979524.53	0.3774	A	3.6
4	☐	12500.000	13322.372	4882223.27	0.9431	A	1.4
5	☐	25000.000	26787.340	9906757.61	1.8945	A	1.3
6	☐	50000.000	53304.970	19458099.65	3.7682	A	1.5
7	☐	100000.00	103052.43	38211113.26	7.2833	A	3.2
8	☐	500000.00	498945.95	180568602.5	35.2565	A	4.0

$$y = 7.0658E-005 * x + 0.0018$$

$$R = 1.0000$$

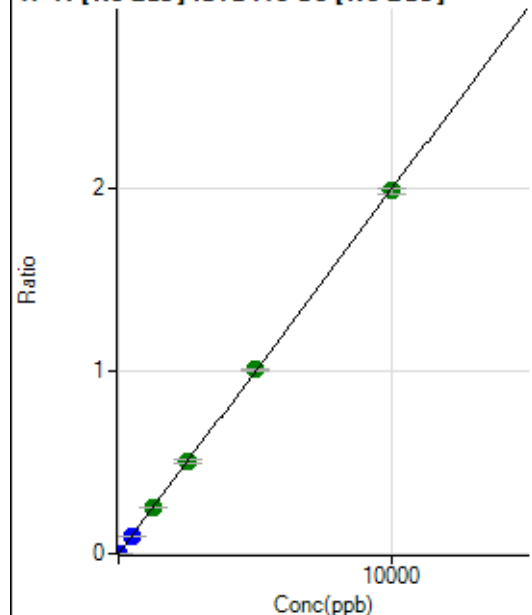
$$DL = 1.568$$

$$BEC = 24.99$$

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	169.45	0.0000	P	6.5
2	☐	5.000	4.971	5201.10	0.0010	P	4.9
3	☐	500.000	495.174	518275.54	0.0988	P	2.4
4	☐	1250.000	1275.387	1316771.46	0.2544	A	2.1
5	☐	2500.000	2542.387	2651344.72	0.5071	A	3.1
6	☐	5000.000	5056.348	5207261.36	1.0084	A	1.2
7	☐	10000.000	9958.297	10421635.22	1.9860	A	1.4
8	☐			4839.82	0.0009	P	3.8

$$y = 1.9943\text{E-}004 * x + 3.3461\text{E-}005$$

$$R = 1.0000$$

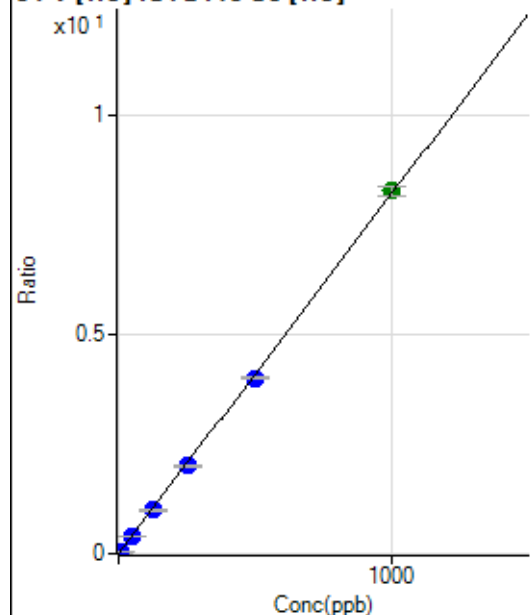
$$DL = 0.03293$$

$$BEC = 0.1678$$

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	6.67	0.0000	P	99.4
2	☐	5.000	4.547	6918.40	0.0373	P	3.0
3	☐	50.000	48.486	73066.53	0.3978	P	1.9
4	☐	125.000	120.790	180562.24	0.9910	P	1.3
5	☐	250.000	243.543	358727.38	1.9980	P	2.2
6	☐	500.000	487.390	725937.11	3.9985	P	0.9
7	☐	1000.000	1008.524	1511360.19	8.2739	A	2.4
8	☐			861.14	0.0045	P	0.9

$$y = 0.0082 * x + 3.7238\text{E-}005$$

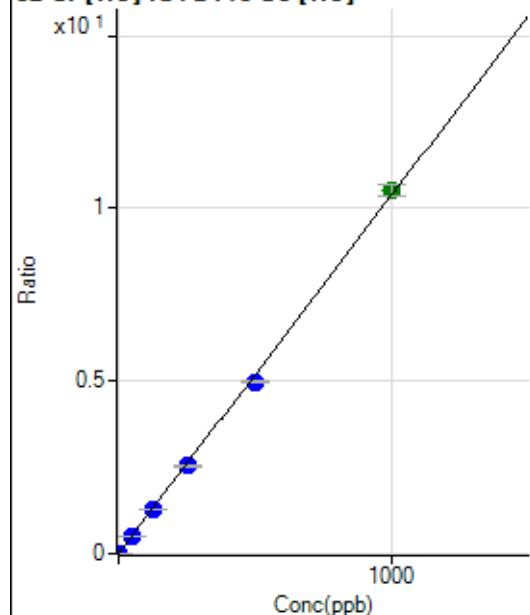
$$R = 0.9999$$

$$DL = 0.01353$$

$$BEC = 0.004539$$

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	655.58	0.0037	P	12.4
2	☐	2.000	1.758	4053.94	0.0219	P	5.1
3	☐	50.000	48.345	92811.35	0.5053	P	1.4
4	☐	125.000	121.754	230853.20	1.2670	P	0.6
5	☐	250.000	243.902	455044.32	2.5345	P	2.2
6	☐	500.000	479.619	904083.90	4.9804	P	0.4
7	☐	1000.000	1012.204	1919297.94	10.5068	A	3.2
8	☐			14556.42	0.0766	P	3.8

$$y = 0.0104 * x + 0.0037$$

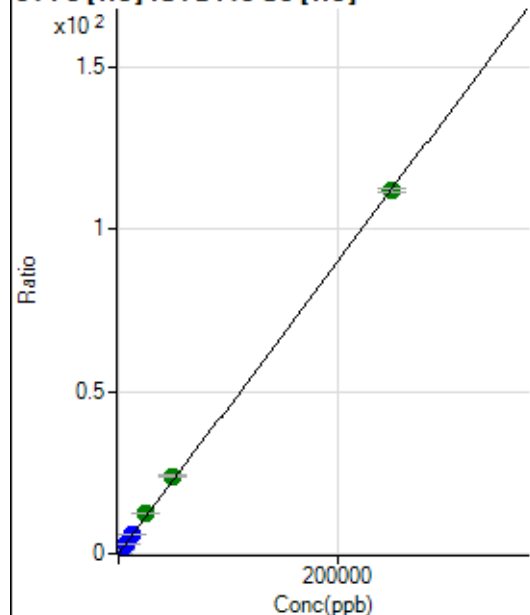
$$R = 0.9997$$

$$DL = 0.1313$$

$$BEC = 0.3522$$

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	612.99	0.0034	P	10.1
2	☐	50.000	49.434	4739.75	0.0256	P	2.4
3	☐	2500.000	2641.671	218211.36	1.1880	P	1.6
4	☐	6250.000	6619.936	541486.03	2.9719	P	0.8
5	☐	12500.000	13312.215	1072372.62	5.9728	P	1.8
6	☐	25000.000	27899.142	2272009.15	12.5138	A	1.4
7	☐	50000.000	53108.128	4350742.40	23.8179	A	1.6
8	☐	250000.00	249037.18	21210733.81	111.6755	A	1.1

$$y = 4.4842E-004 * x + 0.0034$$

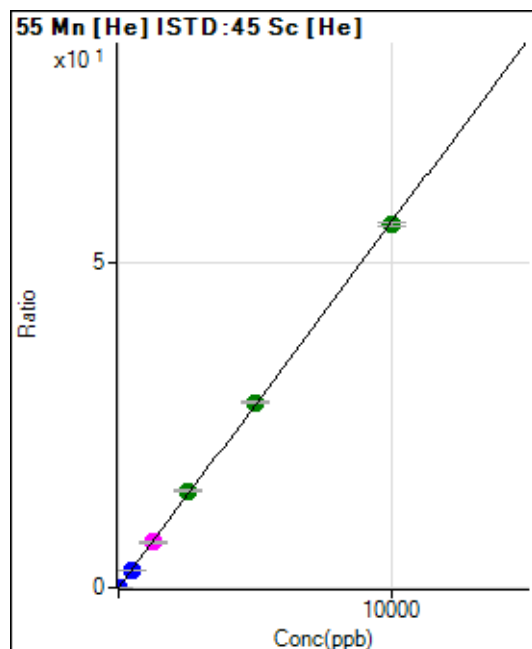
$$R = 0.9999$$

$$DL = 2.303$$

$$BEC = 7.61$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0004	P	16.6
2	☐	1.000	0.909	1016.71	0.0055	P	3.6
3	☐	500.000	486.314	503293.19	2.7402	P	1.7
4	☐	1250.000	1250.106	1283388.72	7.0432	M	3.4
5	☐	2500.000	2654.690	2685341.38	14.9564	A	1.9
6	☐	5000.000	5075.138	5190266.17	28.5928	A	0.8
7	☐	10000.000	9924.430	10213518.46	55.9128	A	1.0
8	☐			12871.46	0.0678	P	2.4

$$y = 0.0056 * x + 3.6472E-004$$

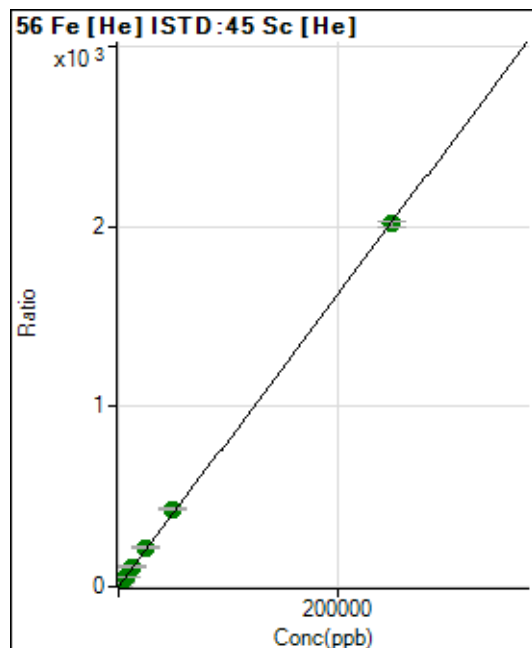
$$R = 0.9998$$

$$DL = 0.03227$$

$$BEC = 0.06474$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3541.24	0.0197	P	3.7
2	☐	50.000	48.439	76120.99	0.4112	P	4.9
3	☐	2500.000	2705.517	4018795.78	21.8820	A	3.1
4	☐	6250.000	6793.114	10005045.48	54.9122	A	1.0
5	☐	12500.000	13752.703	19955481.24	111.1499	A	2.9
6	☐	25000.000	26908.726	39464816.62	217.4585	A	2.8
7	☐	50000.000	53242.265	78591870.28	430.2495	A	2.6
8	☐	250000.00	249082.40	382295386.3	2,012.756	A	1.9

$$y = 0.0081 * x + 0.0197$$

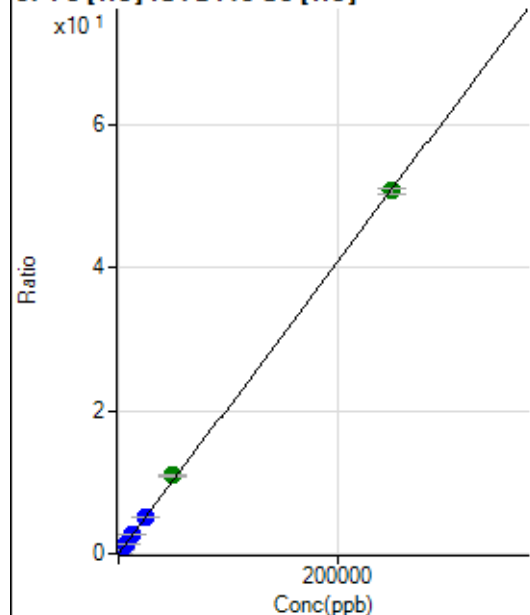
$$R = 0.9999$$

$$DL = 0.2728$$

$$BEC = 2.442$$

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	240.75	0.0013	P	13.2
2	☐	50.000	47.416	2039.07	0.0110	P	5.2
3	☐	2500.000	2557.039	95996.02	0.5226	P	1.2
4	☐	6250.000	6447.572	239724.65	1.3157	P	1.3
5	☐	12500.000	12952.725	474307.79	2.6418	P	2.1
6	☐	25000.000	25055.653	927377.06	5.1090	P	2.0
7	☐	50000.000	53516.626	1993067.46	10.9109	A	0.9
8	☐	250000.00	249262.96	9651713.76	50.8145	A	1.3

$$y = 2.0385E-004 * x + 0.0013$$

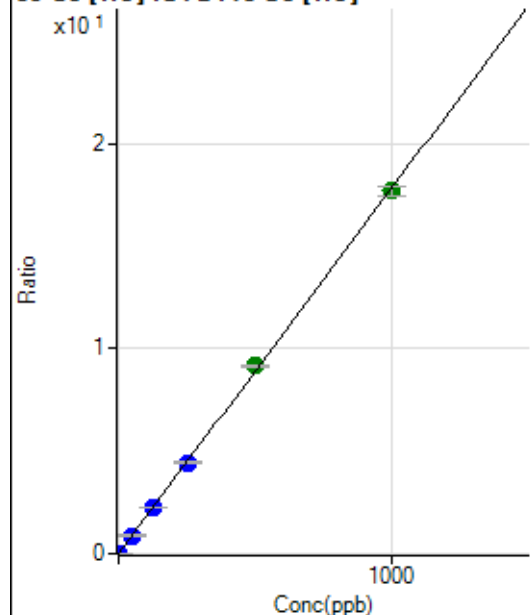
$$R = 0.9999$$

$$DL = 2.617$$

$$BEC = 6.588$$

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	55.56	0.0003	P	14.9
2	☐	1.000	0.931	3127.04	0.0169	P	2.7
3	☐	50.000	49.653	162378.06	0.8841	P	1.8
4	☐	125.000	124.550	403964.40	2.2171	P	1.1
5	☐	250.000	248.225	793256.60	4.4183	P	2.6
6	☐	500.000	514.281	1661889.18	9.1538	A	1.0
7	☐	1000.000	993.377	3229730.99	17.6809	A	2.5
8	☐			3544.92	0.0187	P	1.9

$$y = 0.0178 * x + 3.0951E-004$$

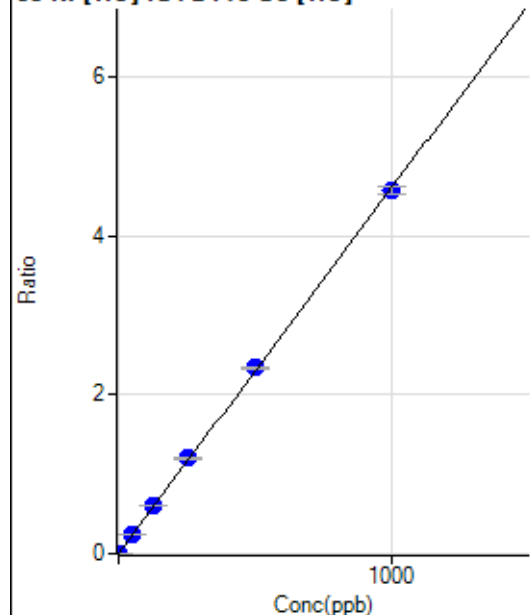
$$R = 0.9998$$

$$DL = 0.007747$$

$$BEC = 0.01739$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31.11	0.0002	P	44.4
2	☐	1.000	0.965	854.48	0.0046	P	10.1
3	☐	50.000	52.733	44649.89	0.2431	P	1.6
4	☐	125.000	131.946	110771.98	0.6080	P	1.2
5	☐	250.000	262.083	216788.88	1.2075	P	2.5
6	☐	500.000	507.669	424582.39	2.3388	P	0.5
7	☐	1000.000	992.140	834899.66	4.5705	P	2.2
8	☐			2580.26	0.0136	P	5.0

$$y = 0.0046 * x + 1.7398E-004$$

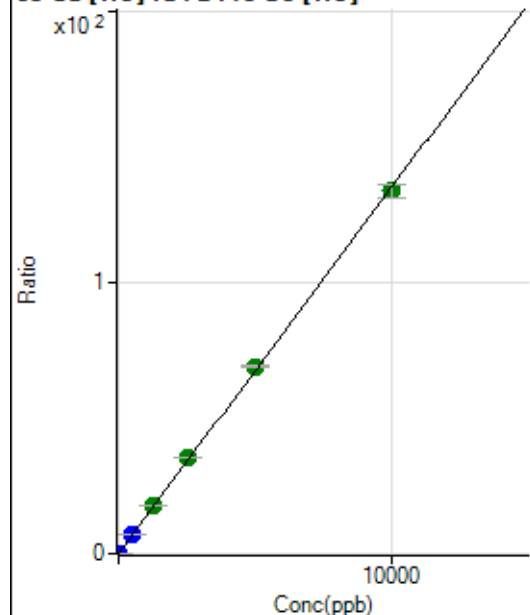
$$R = 0.9999$$

$$DL = 0.05028$$

$$BEC = 0.03777$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1166.73	0.0065	P	3.4
2	☐	2.000	1.894	5943.52	0.0321	P	5.0
3	☐	500.000	503.695	1252359.83	6.8182	P	1.3
4	☐	1250.000	1324.030	3263566.76	17.9120	A	1.0
5	☐	2500.000	2627.996	6382018.52	35.5462	A	1.7
6	☐	5000.000	5105.864	12535727.73	69.0556	A	0.8
7	☐	10000.000	9905.631	24470880.75	133.9651	A	3.7
8	☐			11988.49	0.0631	P	2.1

$$y = 0.0135 * x + 0.0065$$

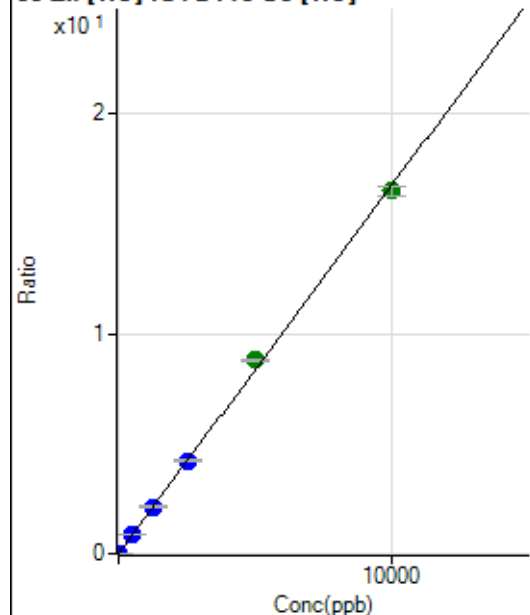
$$R = 0.9998$$

$$DL = 0.04974$$

$$BEC = 0.4805$$

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	111.11	0.0006	P	9.6
2	☐	2.000	2.152	784.48	0.0042	P	10.5
3	☐	500.000	505.129	155350.84	0.8458	P	2.4
4	☐	1250.000	1273.196	388245.23	2.1310	P	1.5
5	☐	2500.000	2529.116	759876.70	4.2325	P	3.0
6	☐	5000.000	5258.944	1597488.92	8.8001	A	0.3
7	☐	10000.000	9860.093	3013946.62	16.4990	A	2.7
8	☐			2793.64	0.0147	P	3.0

$$y = 0.0017 * x + 6.1950E-004$$

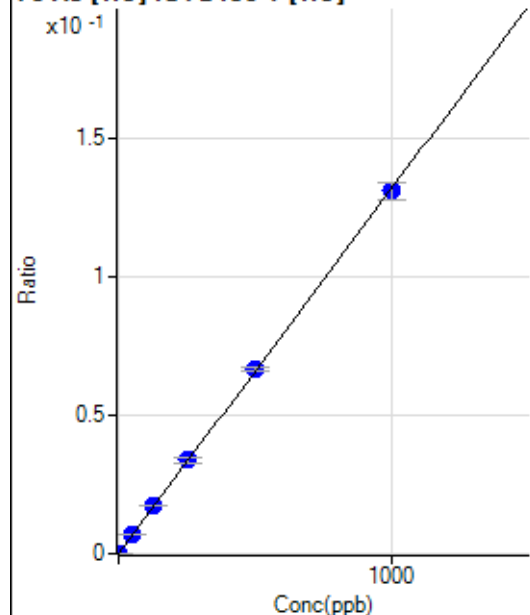
$$R = 0.9995$$

$$DL = 0.1069$$

$$BEC = 0.3702$$

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	3.33	0.0000	P	17.2
2	☐	1.000	1.022	176.69	0.0001	P	6.7
3	☐	50.000	52.726	8769.62	0.0070	P	3.4
4	☐	125.000	130.496	21567.26	0.0172	P	1.0
5	☐	250.000	255.494	43124.25	0.0337	P	4.1
6	☐	500.000	507.745	84658.15	0.0670	P	2.1
7	☐	1000.000	993.931	168601.52	0.1312	P	4.7
8	☐			83.68	0.0001	P	6.8

$$y = 1.3200E-004 * x + 2.6880E-006$$

$$R = 0.9999$$

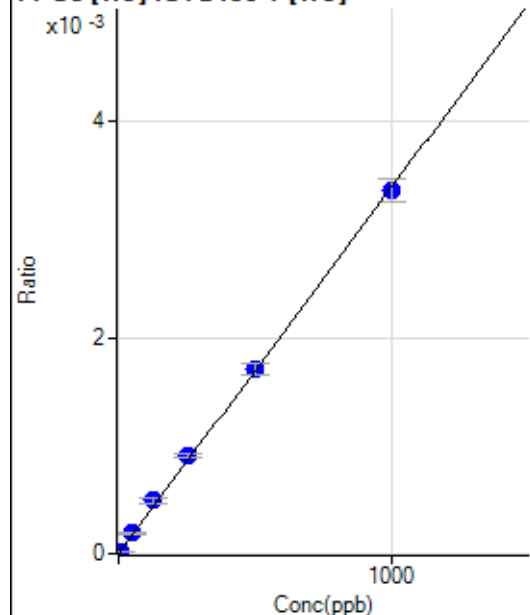
$$DL = 0.0105$$

$$BEC = 0.02036$$

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	0.00	0.0000	P	
2	☐	5.000	5.332	23.33	0.0000	P	20.0
3	☐	50.000	55.637	237.78	0.0002	P	8.9
4	☐	125.000	144.383	613.35	0.0005	P	8.2
5	☐	250.000	266.231	1155.61	0.0009	P	4.3
6	☐	500.000	505.797	2167.97	0.0017	P	6.4
7	☐	1000.000	990.337	4318.49	0.0034	P	6.5
8	☐			8.89	0.0000	P	43.9

$$y = 3.3935\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

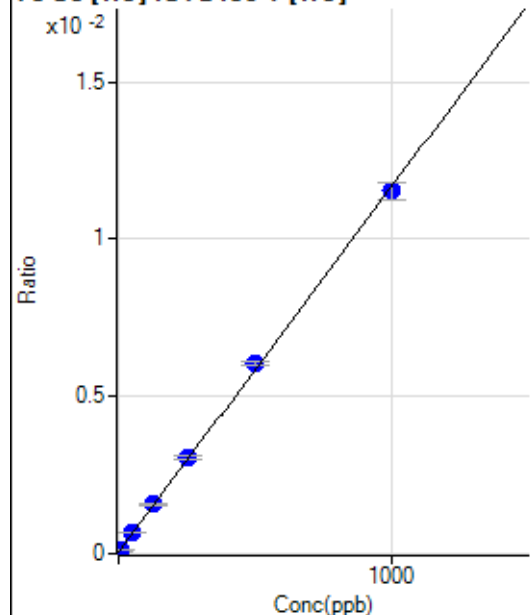
$$DL = 0$$

$$BEC = 0$$

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	67.01	0.0001	P	31.2
2	☐	5.000	4.711	139.35	0.0001	P	11.4
3	☐	50.000	54.303	862.45	0.0007	P	1.6
4	☐	125.000	131.026	1972.34	0.0016	P	2.9
5	☐	250.000	258.213	3902.61	0.0031	P	4.9
6	☐	500.000	517.007	7651.86	0.0061	P	1.7
7	☐	1000.000	988.476	14821.63	0.0115	P	5.0
8	☐			82.01	0.0001	P	14.5

$$y = 1.1613\text{E-}005 * x + 5.4037\text{E-}005$$

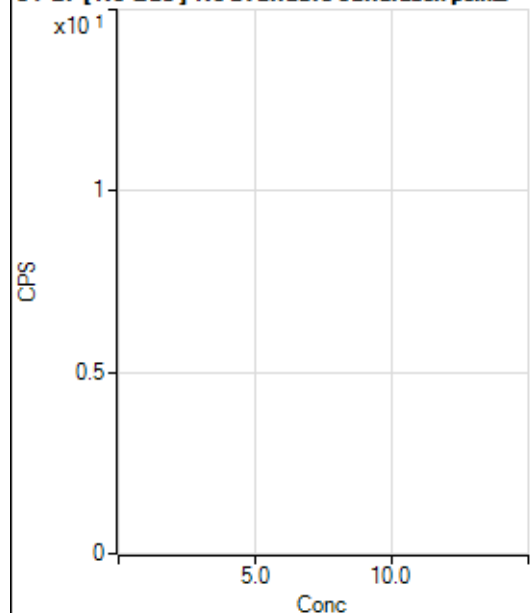
$$R = 0.9997$$

$$DL = 4.351$$

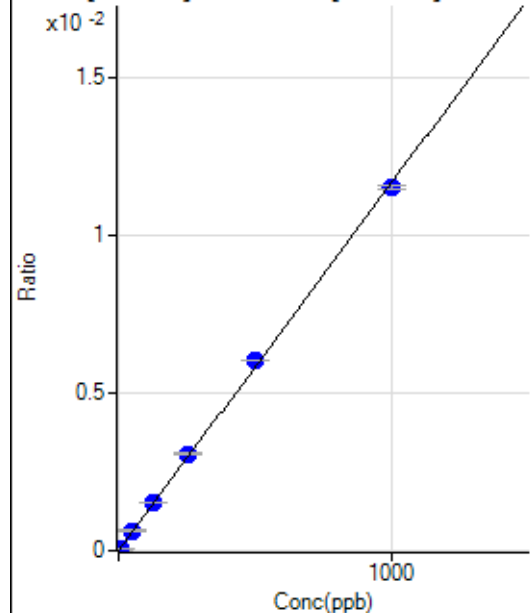
$$BEC = 4.653$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40935.89		P	1.1
2	☐			39430.13		P	1.2
3	☐			39841.29		P	1.3
4	☐			39941.89		P	2.9
5	☐			40286.47		P	4.8
6	☐			38195.15		P	2.1
7	☐			38446.35		P	2.4
8	☐			37398.65		P	1.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.75	0.0000	P	81.6
2	☐	5.000	5.122	693.28	0.0001	P	7.8
3	☐	50.000	54.409	7392.86	0.0006	P	1.6
4	☐	125.000	131.394	18052.67	0.0015	P	1.3
5	☐	250.000	263.222	36546.08	0.0031	P	1.1
6	☐	500.000	518.662	71069.95	0.0061	P	0.4
7	☐	1000.000	986.343	137615.05	0.0115	P	1.1
8	☐			221.65	0.0000	P	25.2

$$y = 1.1679\text{E-}005 * x + 1.2220\text{E-}006$$

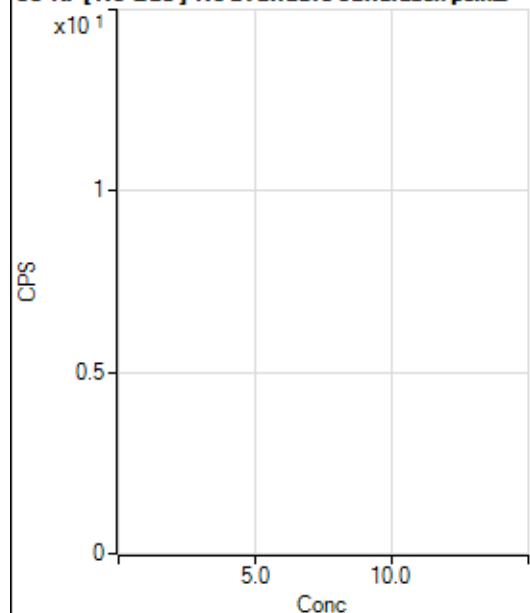
$$R = 0.9996$$

$$DL = 0.2563$$

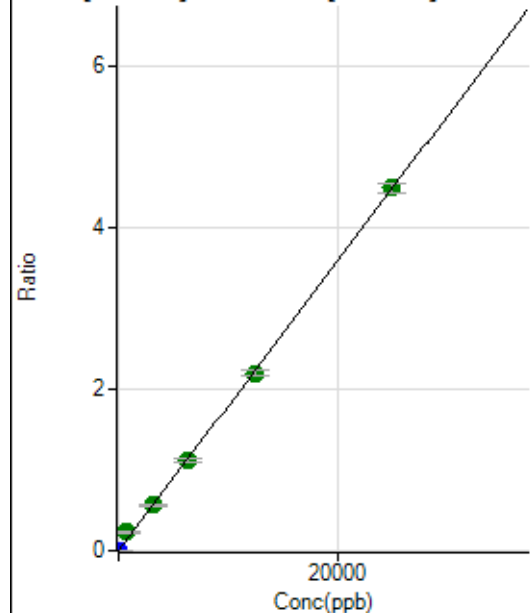
$$BEC = 0.1046$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			312.88		P	4.7
2	☐			294.97		P	8.9
3	☐			294.55		P	6.3
4	☐			314.14		P	1.9
5	☐			318.30		P	7.7
6	☐			299.55		P	2.5
7	☐			330.38		P	5.6
8	☐			334.54		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	513.91	0.0000	P	10.7
2	☐	1.000	0.989	2530.87	0.0002	P	8.5
3	☐	625.000	1275.909	2655818.01	0.2288	A	3.3
4	☐	3125.000	3132.586	6601443.50	0.5616	A	2.4
5	☐	6250.000	6226.480	13261638.15	1.1163	A	3.5
6	☐	12500.000	12271.921	25802021.93	2.2001	A	2.8
7	☐	25000.000	25102.698	53748783.49	4.5003	A	2.6
8	☐			26486.91	0.0023	P	4.1

$$y = 1.7927E-004 * x + 4.5851E-005$$

$$R = 0.9996$$

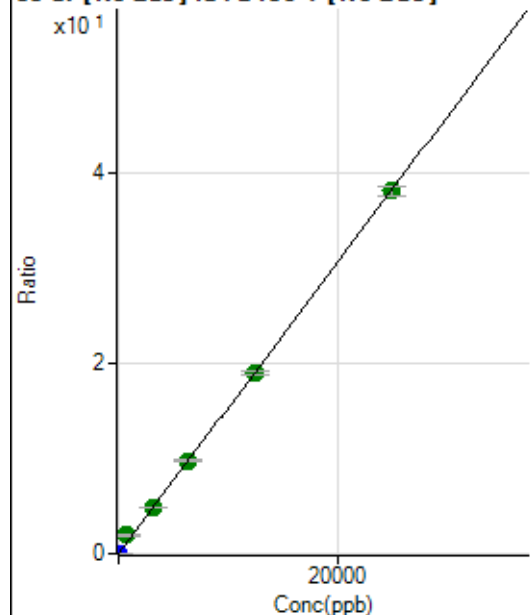
$$DL = 0.08203$$

$$BEC = 0.2558$$

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	138.90	0.0000	P	25.2
2	☐	1.000	0.953	16651.99	0.0015	P	2.5
3	☐	625.000	1269.189	22493027.76	1.9375	A	2.2
4	☐	3125.000	3140.609	56357717.23	4.7943	A	0.8
5	☐	6250.000	6377.629	115672662.3	9.7357	A	2.4
6	☐	12500.000	12477.549	223402466.1	19.0474	A	2.1
7	☐	25000.000	24961.262	455118949.0	38.1043	A	2.7
8	☐			221432.27	0.0196	P	2.3

$$y = 0.0015 * x + 1.2418E-005$$

$$R = 0.9997$$

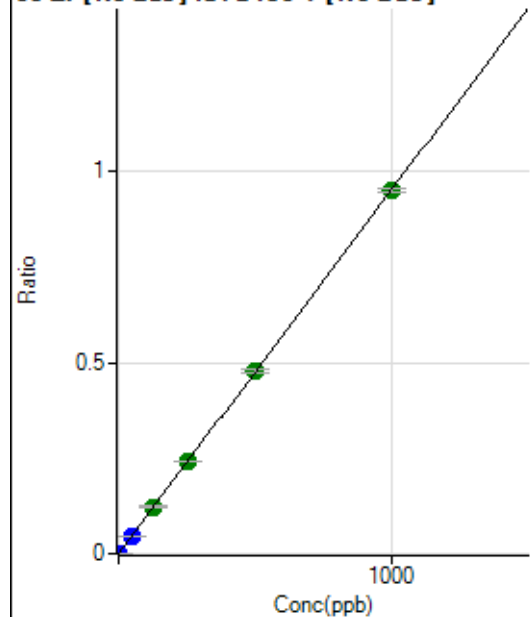
$$DL = 0.006152$$

$$BEC = 0.008135$$

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	455.58	0.0000	P	1.9
2	☐	1.000	0.933	10529.26	0.0009	P	3.5
3	☐	50.000	49.376	545584.63	0.0470	P	1.6
4	☐	125.000	128.616	1437614.08	0.1223	A	3.8
5	☐	250.000	255.506	2887734.09	0.2430	A	0.4
6	☐	500.000	501.340	5592006.81	0.4767	A	2.1
7	☐	1000.000	997.533	11331724.39	0.9485	A	1.2
8	☐			5226.11	0.0005	P	4.4

$$y = 9.5084E-004 * x + 4.0672E-005$$

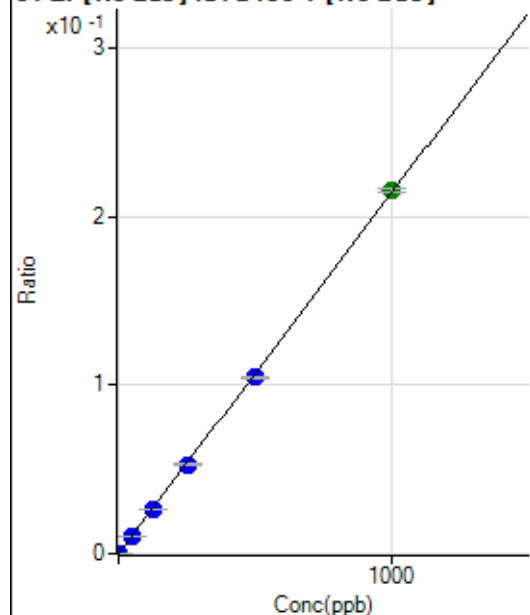
$$R = 1.0000$$

$$DL = 0.002496$$

$$BEC = 0.04277$$

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	80.56	0.0000	P	25.2
2	☐	1.000	0.951	2391.94	0.0002	P	12.1
3	☐	50.000	49.308	122625.19	0.0106	P	2.2
4	☐	125.000	123.463	310728.46	0.0264	P	1.9
5	☐	250.000	247.449	629427.95	0.0530	P	2.6
6	☐	500.000	488.638	1226952.08	0.1046	P	1.8
7	☐	1000.000	1006.545	2573920.72	0.2155	A	1.1
8	☐			1002.84	0.0001	P	2.1

$$y = 2.1407\text{E-}004 * x + 7.1805\text{E-}006$$

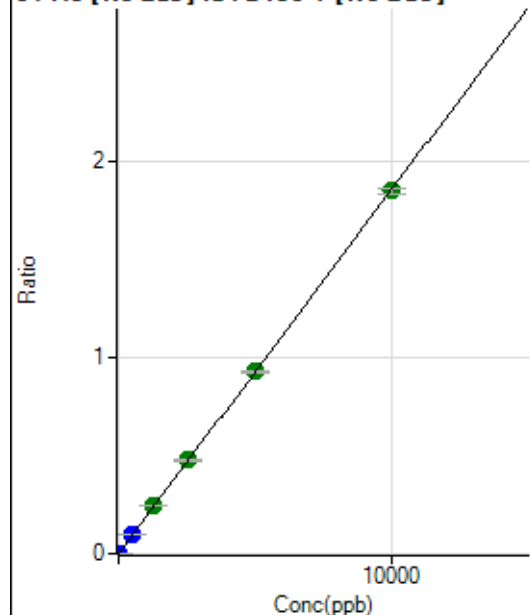
$$R = 0.9999$$

$$DL = 0.02536$$

$$BEC = 0.03354$$

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	180.56	0.0000	P	18.0
2	☐	5.000	5.942	12672.82	0.0011	P	3.7
3	☐	500.000	505.934	1088567.20	0.0938	P	1.4
4	☐	1250.000	1309.216	2851425.30	0.2426	A	1.4
5	☐	2500.000	2582.424	5685056.46	0.4785	A	2.4
6	☐	5000.000	5003.794	10874472.12	0.9271	A	1.0
7	☐	10000.000	9969.798	22063201.88	1.8472	A	1.8
8	☐			10551.49	0.0009	P	4.0

$$y = 1.8528\text{E-}004 * x + 1.6106\text{E-}005$$

$$R = 1.0000$$

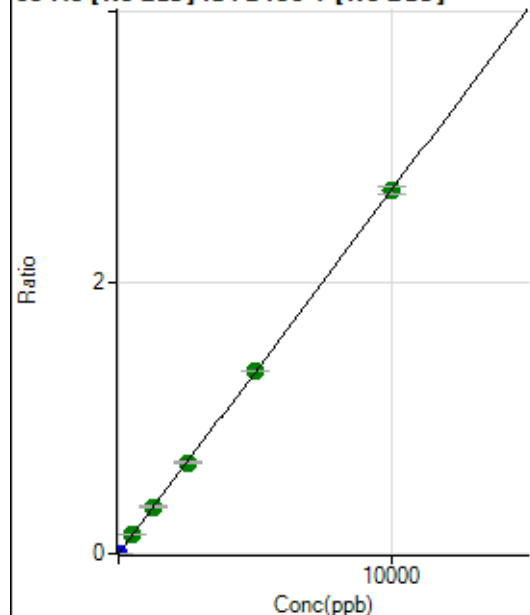
$$DL = 0.04698$$

$$BEC = 0.08693$$

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	33.33	0.0000	P	24.3
2	☐	5.000	4.881	14866.69	0.0013	P	2.2
3	☐	500.000	513.645	1597386.64	0.1376	A	0.9
4	☐	1250.000	1287.390	4052697.66	0.3448	A	2.5
5	☐	2500.000	2501.972	7963127.96	0.6701	A	1.1
6	☐	5000.000	5023.845	15783478.65	1.3455	A	0.1
7	☐	10000.000	9982.229	31932340.30	2.6735	A	2.0
8	☐			14588.59	0.0013	P	4.9

$$y = 2.6783\text{E-}004 * x + 2.9721\text{E-}006$$

$$R = 1.0000$$

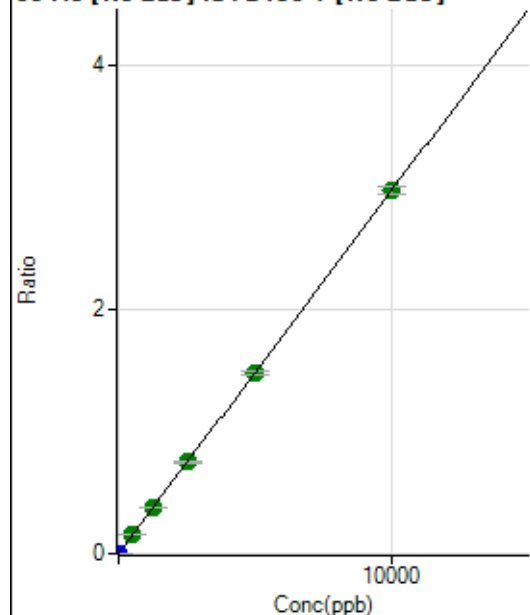
$$DL = 0.0081$$

$$BEC = 0.0111$$

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	202.78	0.0000	P	14.7
2	☐	5.000	5.033	17180.49	0.0015	P	2.9
3	☐	500.000	507.852	1752954.18	0.1510	A	1.3
4	☐	1250.000	1264.169	4416457.83	0.3757	A	1.2
5	☐	2500.000	2521.495	8905719.73	0.7494	A	1.1
6	☐	5000.000	4990.341	17396340.49	1.4832	A	1.8
7	☐	10000.000	9997.292	35487746.97	2.9712	A	2.0
8	☐			27817.45	0.0025	P	3.5

$$y = 2.9720\text{E-}004 * x + 1.8086\text{E-}005$$

$$R = 1.0000$$

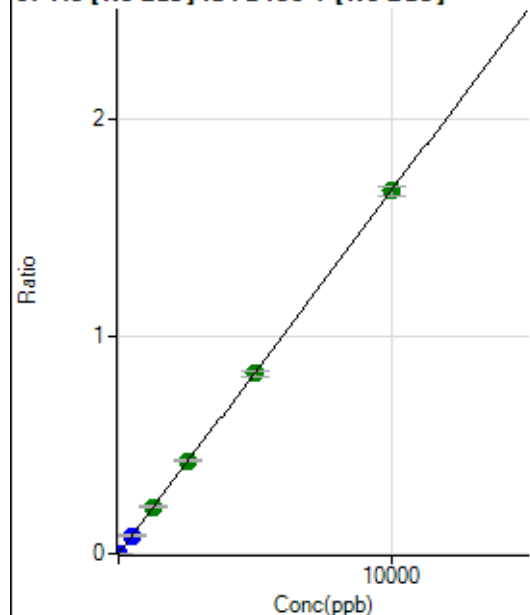
$$DL = 0.02676$$

$$BEC = 0.06085$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.9
2	☐	5.000	4.795	9089.32	0.0008	P	2.8
3	☐	500.000	498.790	966928.70	0.0833	P	2.5
4	☐	1250.000	1286.655	2523795.87	0.2148	A	3.5
5	☐	2500.000	2552.098	5062067.82	0.4260	A	2.0
6	☐	5000.000	4974.961	9738648.13	0.8304	A	3.0
7	☐	10000.000	9994.974	19924138.99	1.6683	A	2.8
8	☐			9036.51	0.0008	P	2.6

$$y = 1.6691\text{E-}004 * x + 7.3943\text{E-}007$$

$$R = 1.0000$$

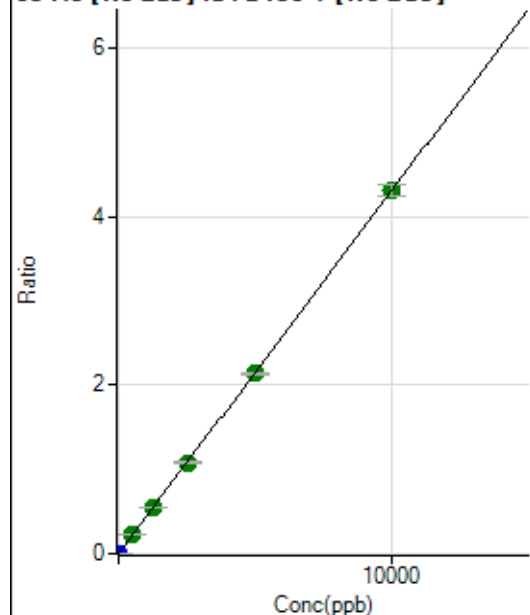
$$DL = 0.01328$$

$$BEC = 0.00443$$

Weight: <None>

Min Conc: 0

98 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	39.6
2	☐	5.000	4.801	23481.54	0.0021	P	4.6
3	☐	500.000	515.909	2575426.23	0.2218	A	2.4
4	☐	1250.000	1276.713	6451977.84	0.5490	A	2.5
5	☐	2500.000	2514.339	12846987.61	1.0811	A	1.1
6	☐	5000.000	4979.896	25115057.33	2.1412	A	1.1
7	☐	10000.000	10002.333	51361716.08	4.3007	A	3.3
8	☐			21973.60	0.0019	P	4.6

$$y = 4.2997\text{E-}004 * x + 5.4615\text{E-}006$$

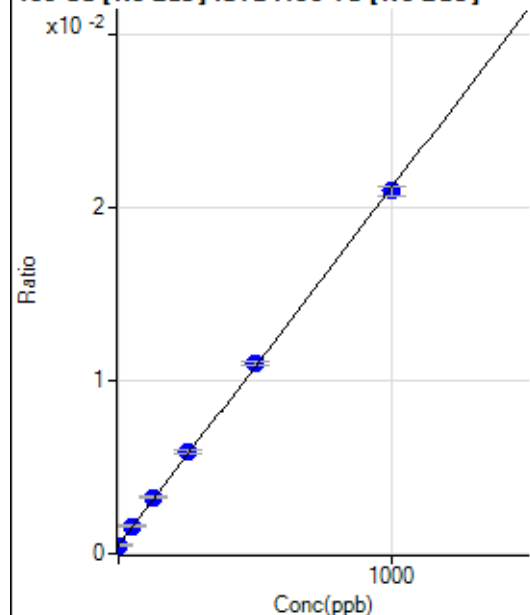
$$R = 1.0000$$

$$DL = 0.01511$$

$$BEC = 0.0127$$

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	4009.05	0.0005	P	6.0
2	☐	1.000	0.517	4086.82	0.0005	P	4.0
3	☐	50.000	52.880	13226.12	0.0016	P	4.3
4	☐	125.000	133.635	27408.51	0.0032	P	3.2
5	☐	250.000	263.440	51681.53	0.0059	P	3.4
6	☐	500.000	508.477	95184.85	0.0110	P	2.5
7	☐	1000.000	991.179	183374.83	0.0210	P	3.0
8	☐			3725.61	0.0005	P	7.0

$$y = 2.0648\text{E-}005 * x + 4.8503\text{E-}004$$

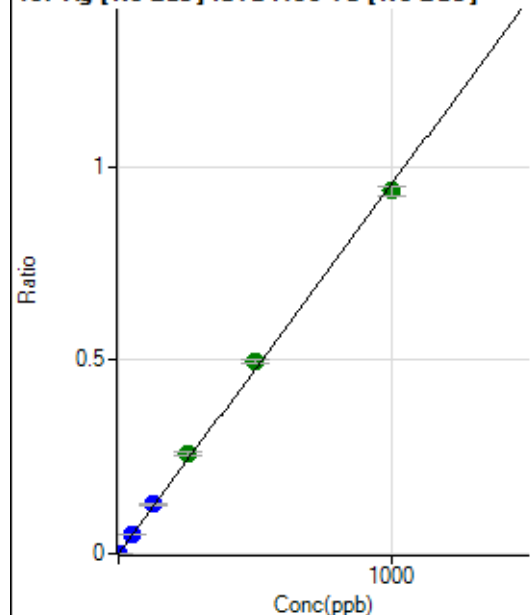
$$R = 0.9998$$

$$DL = 4.199$$

$$BEC = 23.49$$

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	161.12	0.0000	P	49.0
2	☐	1.000	1.038	8333.32	0.0010	P	5.6
3	☐	50.000	52.927	424197.14	0.0506	P	3.8
4	☐	125.000	133.896	1080533.40	0.1279	P	2.1
5	☐	250.000	270.872	2256291.54	0.2587	A	5.4
6	☐	500.000	521.933	4319993.37	0.4985	A	2.4
7	☐	1000.000	982.557	8214004.61	0.9384	A	2.5
8	☐			5648.53	0.0007	P	4.6

$$y = 9.5508\text{E-}004 * x + 1.9521\text{E-}005$$

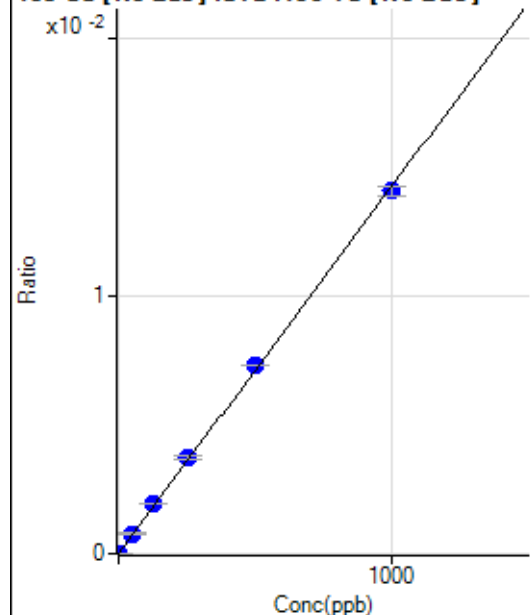
$$R = 0.9994$$

$$DL = 0.03005$$

$$BEC = 0.02044$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.84	0.0000	P	36.5
2	☐	1.000	1.067	145.84	0.0000	P	9.3
3	☐	50.000	53.988	6452.97	0.0008	P	7.6
4	☐	125.000	137.504	16539.23	0.0020	P	1.5
5	☐	250.000	262.009	32521.76	0.0037	P	2.3
6	☐	500.000	513.365	63286.59	0.0073	P	1.0
7	☐	1000.000	988.553	123033.23	0.0141	P	2.6
8	☐			87.50	0.0000	P	19.1

$$y = 1.4218\text{E-}005 * x + 2.5291\text{E-}006$$

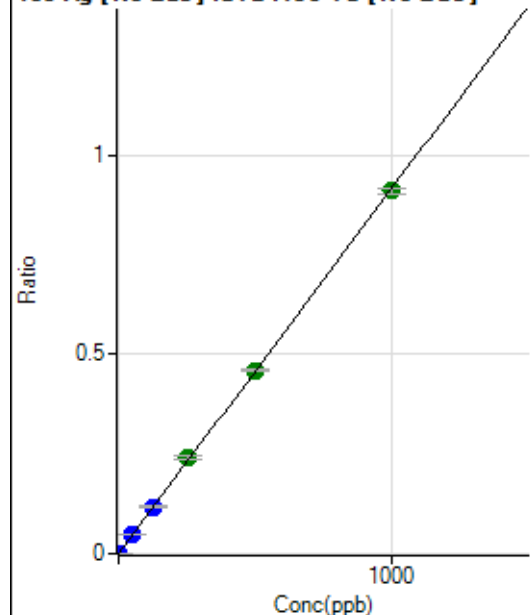
$$R = 0.9997$$

$$DL = 0.1949$$

$$BEC = 0.1779$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	91.67	0.0000	P	63.0
2	☐	1.000	1.035	7902.44	0.0010	P	2.2
3	☐	50.000	52.316	401580.78	0.0479	P	5.4
4	☐	125.000	129.002	997716.00	0.1181	P	1.2
5	☐	250.000	265.126	2116775.03	0.2427	A	3.4
6	☐	500.000	502.982	3989849.05	0.4604	A	1.7
7	☐	1000.000	994.111	7964066.41	0.9099	A	1.9
8	☐			5278.94	0.0006	P	6.6

$$y = 9.1524\text{E-}004 * x + 1.0972\text{E-}005$$

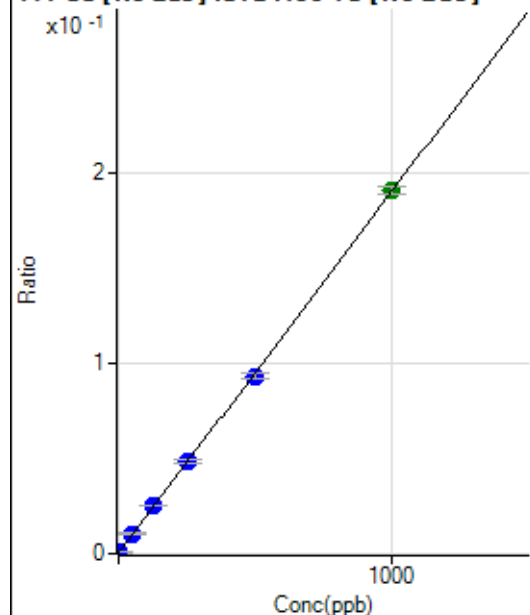
$$R = 0.9999$$

$$DL = 0.02265$$

$$BEC = 0.01199$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2791.74	0.0003	P	5.8
2	☐	1.000	0.989	4326.85	0.0005	P	3.9
3	☐	50.000	53.310	87402.32	0.0104	P	5.1
4	☐	125.000	130.104	210823.11	0.0250	P	1.4
5	☐	250.000	253.570	421393.69	0.0483	P	3.5
6	☐	500.000	490.211	806462.80	0.0931	P	3.4
7	☐	1000.000	1003.199	1664110.65	0.1901	A	2.1
8	☐			3402.27	0.0004	P	6.4

$$y = 1.8918\text{E-}004 * x + 3.3775\text{E-}004$$

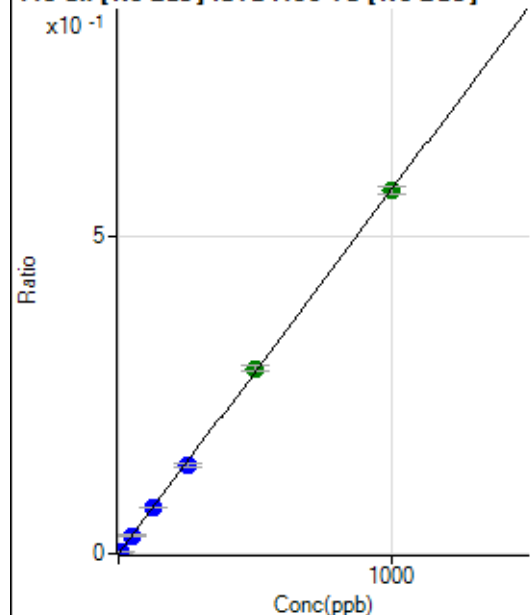
$$R = 0.9999$$

$$DL = 0.3122$$

$$BEC = 1.785$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	558.36	0.0001	P	7.0
2	☐	5.000	5.051	24436.29	0.0030	P	3.0
3	☐	50.000	49.898	240540.41	0.0287	P	4.5
4	☐	125.000	126.140	611613.65	0.0724	P	2.3
5	☐	250.000	242.289	1212812.56	0.1390	P	3.1
6	☐	500.000	509.629	2532612.27	0.2923	A	3.8
7	☐	1000.000	996.975	5004790.57	0.5717	A	2.3
8	☐			6729.64	0.0008	P	7.0

$$y = 5.7341\text{E-}004 * x + 6.7468\text{E-}005$$

$$R = 0.9999$$

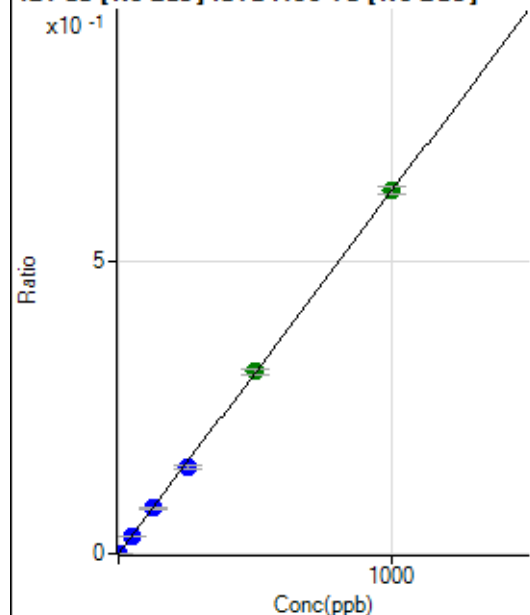
$$DL = 0.0246$$

$$BEC = 0.1177$$

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	16.67	0.0000	P	47.9
2	☐	2.000	1.853	9489.66	0.0012	P	6.0
3	☐	50.000	49.449	257379.30	0.0307	P	3.6
4	☐	125.000	124.922	654805.63	0.0775	P	1.2
5	☐	250.000	240.594	1301945.36	0.1492	P	3.9
6	☐	500.000	502.418	2700614.17	0.3117	A	3.2
7	☐	1000.000	1001.180	5435973.65	0.6211	A	2.2
8	☐			3042.09	0.0004	P	7.6

$$y = 6.2033\text{E-}004 * x + 2.0020\text{E-}006$$

$$R = 0.9999$$

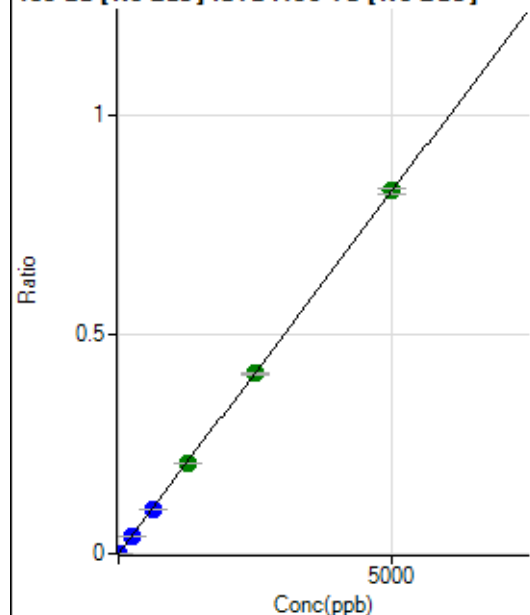
$$DL = 0.00464$$

$$BEC = 0.003227$$

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	13.89	0.0000	P	36.5
2	☐	10.000	9.045	12333.73	0.0015	P	0.4
3	☐	250.000	237.485	329010.35	0.0392	P	3.6
4	☐	625.000	610.280	851393.72	0.1008	P	1.0
5	☐	1250.000	1246.531	1795779.57	0.2058	A	1.9
6	☐	2500.000	2488.271	3560484.50	0.4108	A	1.7
7	☐	5000.000	5009.200	7238947.56	0.8270	A	1.7
8	☐			5153.89	0.0006	P	7.8

$$y = 1.6510\text{E-}004 * x + 1.6894\text{E-}006$$

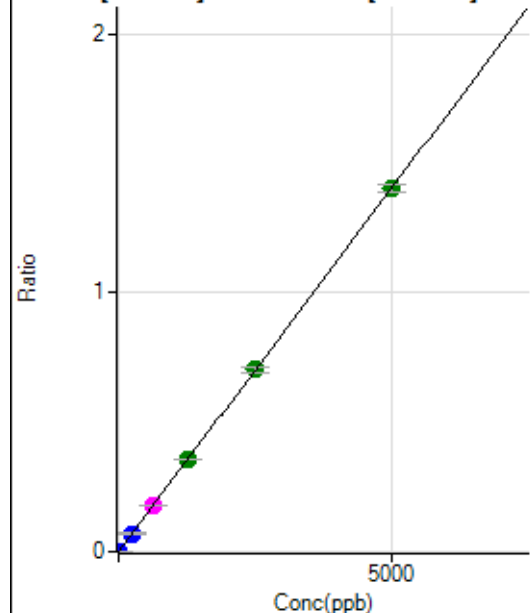
$$R = 1.0000$$

$$DL = 0.0112$$

$$BEC = 0.01023$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	36.5
2	☐	10.000	9.421	21829.38	0.0026	P	3.5
3	☐	250.000	246.328	580216.74	0.0692	P	5.2
4	☐	625.000	635.249	1507296.01	0.1784	M	4.1
5	☐	1250.000	1268.171	3108064.11	0.3562	A	1.6
6	☐	2500.000	2503.515	6092921.27	0.7032	A	3.1
7	☐	5000.000	4992.603	12273310.26	1.4023	A	2.3
8	☐			8967.15	0.0011	P	2.3

$$y = 2.8087E-004 * x + 1.6894E-006$$

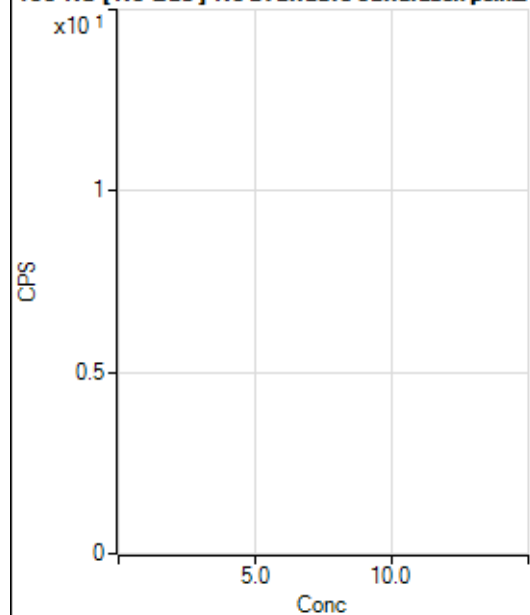
$$R = 1.0000$$

$$DL = 0.006584$$

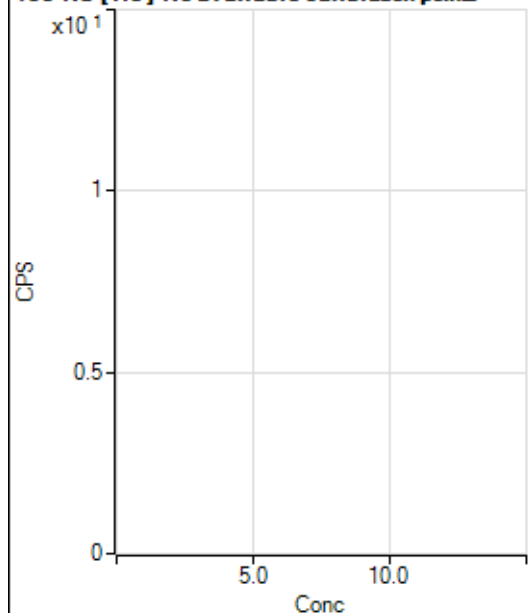
$$BEC = 0.006015$$

Weight: <None>

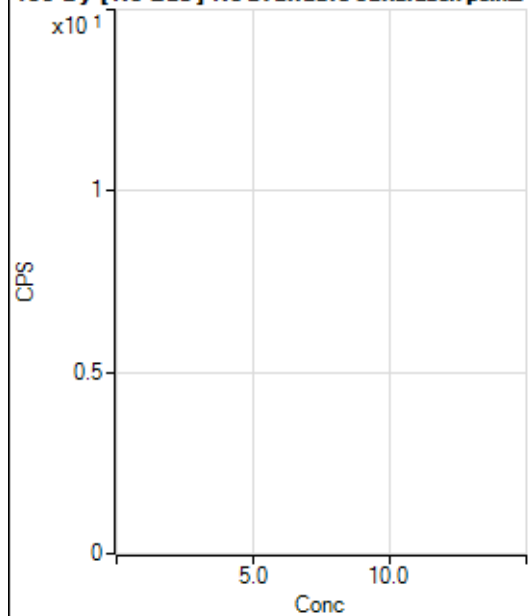
Min Conc: 0

150 Nd [No Gas] No available calibration points

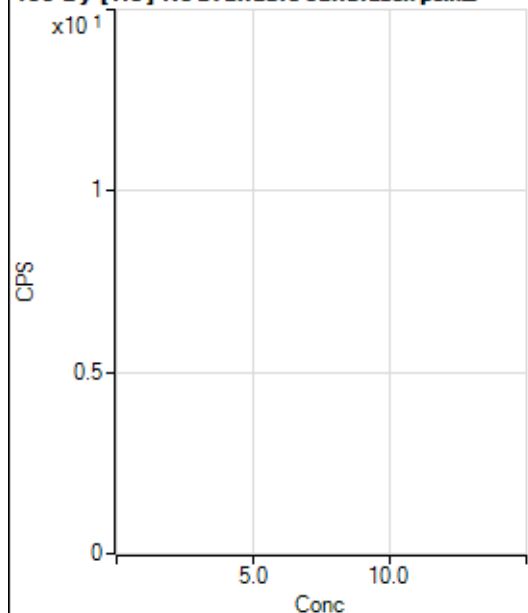
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			13.33		P	50.0
3	☐			35.55		P	47.2
4	☐			91.11		P	36.1
5	☐			166.67		P	22.3
6	☐			340.01		P	10.4
7	☐			637.81		P	3.7
8	☐			40.00		P	44.1

150 Nd [He] No available calibration points

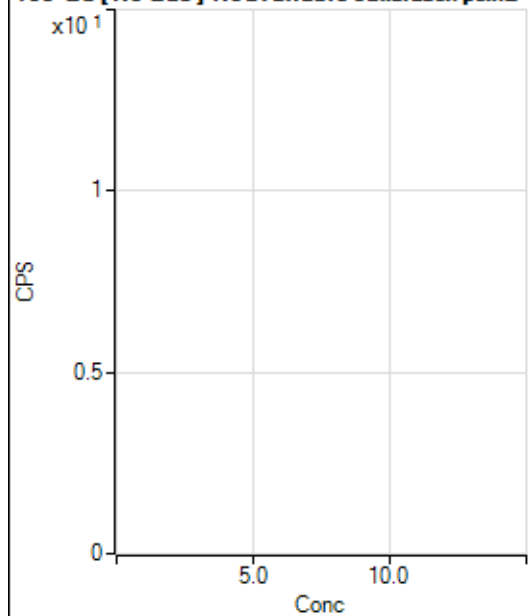
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	86.6
3	☐			4.45		P	86.6
4	☐			11.11		P	17.3
5	☐			15.55		P	24.8
6	☐			40.00		P	33.3
7	☐			63.33		P	21.1
8	☐			14.45		P	48.0

156 Dy [No Gas] No available calibration points

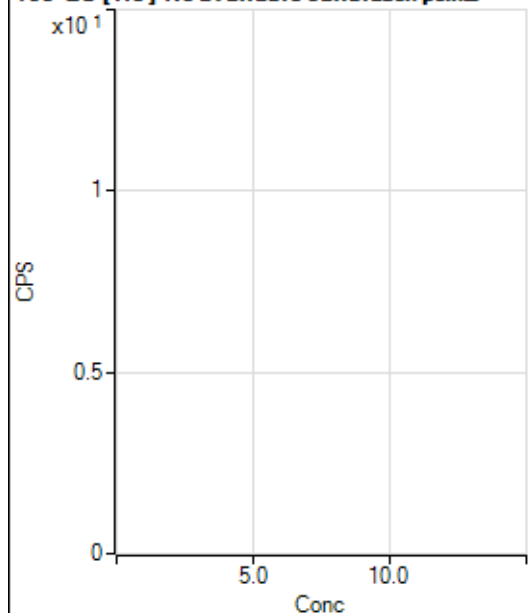
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			19.44		P	89.2
3	☐			36.11		P	35.3
4	☐			61.11		P	7.9
5	☐			108.34		P	30.8
6	☐			194.45		P	44.6
7	☐			425.02		P	10.9
8	☐			1261.21		P	4.6

156 Dy [He] No available calibration points

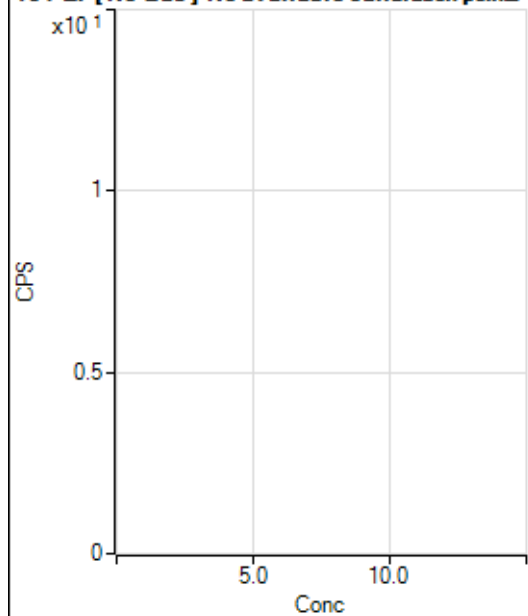
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.44		P	43.4
3	☐			8.89		P	21.6
4	☐			16.67		P	72.1
5	☐			51.11		P	16.4
6	☐			81.11		P	16.6
7	☐			221.12		P	13.9
8	☐			541.13		P	6.0

160 Gd [No Gas] Noavailable calibration poin_

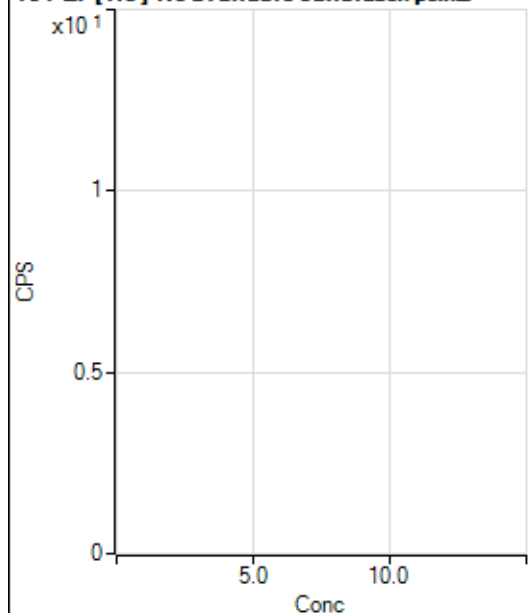
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.56		P	11.9
2	☐			55.56		P	17.3
3	☐			119.45		P	35.1
4	☐			127.78		P	19.9
5	☐			169.45		P	2.8
6	☐			219.45		P	15.3
7	☐			419.46		P	28.7
8	☐			1322.32		P	5.7

160 Gd [He] No available calibration points

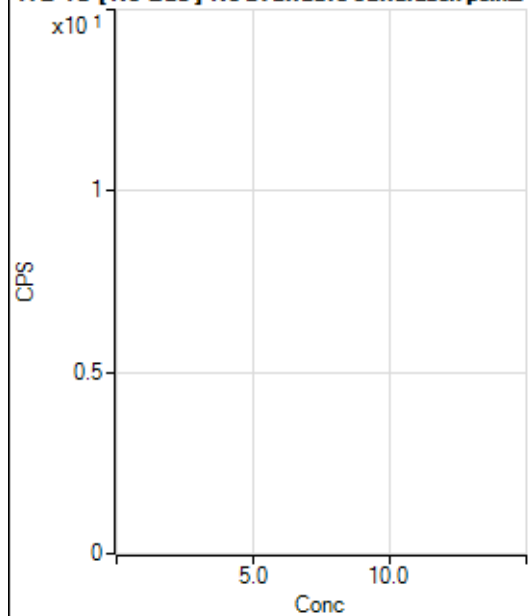
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			103.33		P	16.1
2	☐			114.45		P	24.8
3	☐			128.89		P	34.1
4	☐			165.56		P	15.1
5	☐			146.67		P	6.8
6	☐			197.78		P	12.9
7	☐			278.89		P	15.6
8	☐			674.47		P	12.9

164 Er [No Gas] No available calibration points

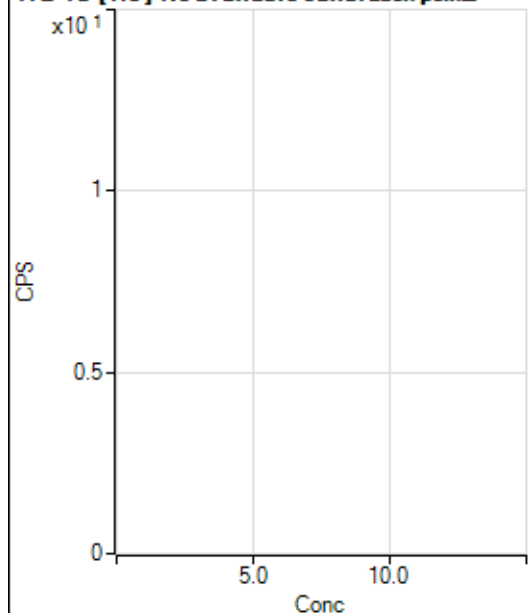
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	45.8
2	☐			80.56		P	51.0
3	☐			63.89		P	45.8
4	☐			72.22		P	17.6
5	☐			102.78		P	12.4
6	☐			163.89		P	21.2
7	☐			186.12		P	22.1
8	☐			138.89		P	50.3

164 Er [He] No available calibration points

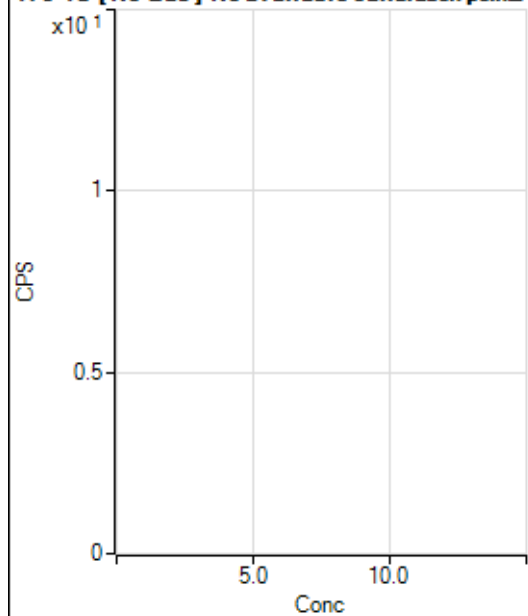
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	52.7
2	☐			31.11		P	24.7
3	☐			34.44		P	49.7
4	☐			32.22		P	41.8
5	☐			31.11		P	43.3
6	☐			44.45		P	30.3
7	☐			62.22		P	24.7
8	☐			34.45		P	20.1

172 Yb [No Gas] No available calibration points

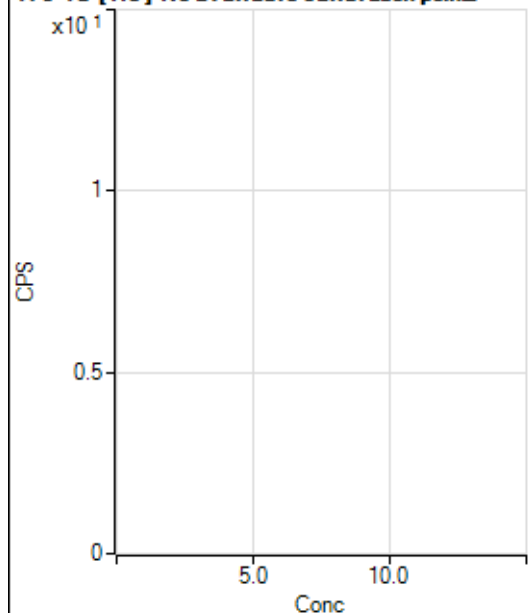
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	28.6
2	☐			36.11		P	13.3
3	☐			63.89		P	15.1
4	☐			63.89		P	30.1
5	☐			88.89		P	39.0
6	☐			175.01		P	20.8
7	☐			197.23		P	8.8
8	☐			480.58		P	11.1

172 Yb [He] No available calibration points

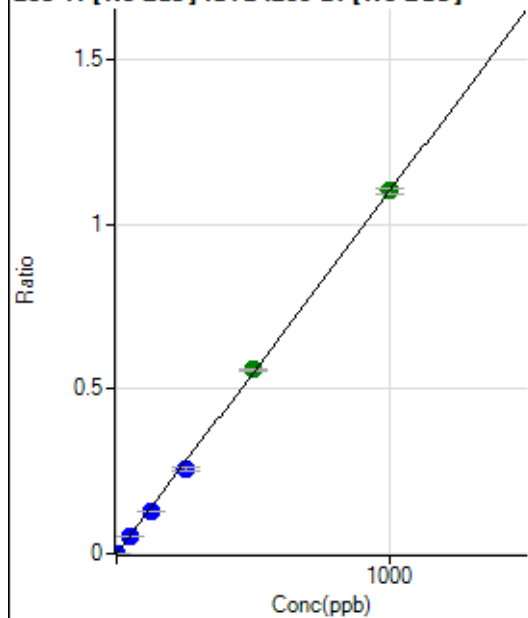
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.52		P	96.4
2	☐			20.37		P	31.5
3	☐			38.89		P	24.7
4	☐			31.48		P	27.0
5	☐			27.78		P	34.6
6	☐			61.11		P	18.2
7	☐			90.75		P	7.1
8	☐			222.23		P	7.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1311.21		P	4.5
2	☐			1433.45		P	6.7
3	☐			2494.75		P	6.3
4	☐			4159.10		P	3.7
5	☐			7232.76		P	3.2
6	☐			13023.46		P	1.5
7	☐			25035.50		P	0.9
8	☐			1419.56		P	4.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8741.97		P	0.6
2	☐			8823.50		P	4.4
3	☐			8993.94		P	0.8
4	☐			9751.92		P	3.0
5	☐			11199.38		P	1.1
6	☐			13249.47		P	1.3
7	☐			18060.74		P	1.5
8	☐			8682.65		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	436.13	0.0001	P	11.5
2	☐	1.000	0.871	5362.36	0.0010	P	5.9
3	☐	50.000	45.993	266568.91	0.0507	P	0.8
4	☐	125.000	115.143	670277.38	0.1269	P	1.6
5	☐	250.000	233.743	1377304.36	0.2575	P	3.5
6	☐	500.000	508.307	2921859.96	0.5599	A	1.1
7	☐	1000.000	1001.343	5787401.52	1.1028	A	1.7
8	☐			2436.41	0.0006	P	10.1

$$y = 0.0011 * x + 8.3938E-005$$

$$R = 0.9998$$

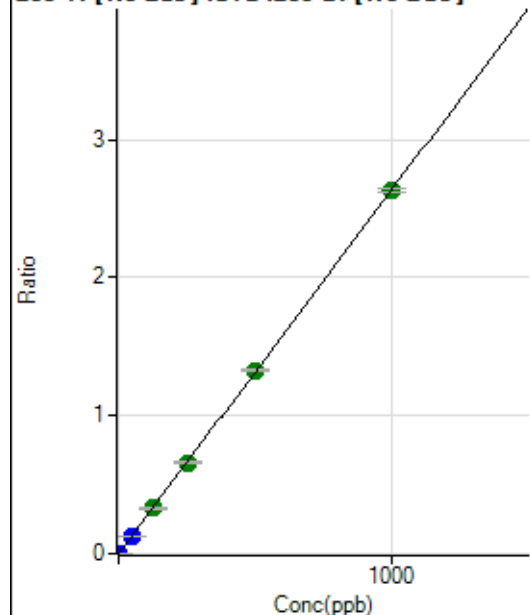
$$DL = 0.02626$$

$$BEC = 0.07622$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	913.95	0.0002	P	7.8
2	☐	1.000	0.894	13004.07	0.0025	P	2.2
3	☐	50.000	45.706	632802.96	0.1204	P	0.8
4	☐	125.000	124.695	1734151.95	0.3283	A	1.0
5	☐	250.000	248.905	3504619.30	0.6551	A	2.0
6	☐	500.000	504.848	6933451.63	1.3286	A	1.4
7	☐	1000.000	998.103	13781836.42	2.6265	A	1.1
8	☐			5431.86	0.0013	P	2.8

$$y = 0.0026 * x + 1.7646E-004$$

$$R = 1.0000$$

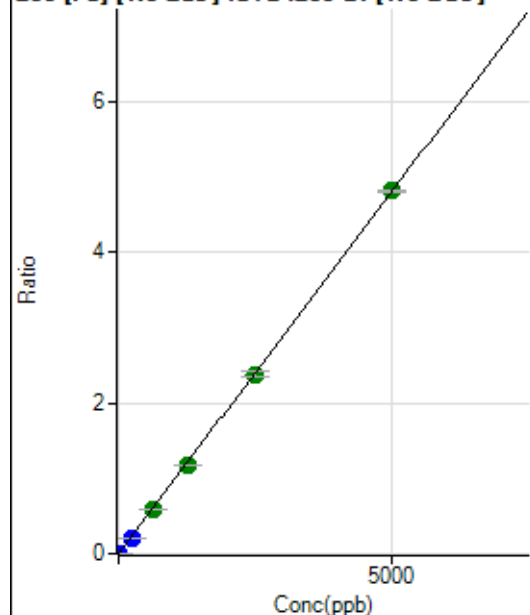
$$DL = 0.01577$$

$$BEC = 0.06706$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	713.00	0.0001	P	13.6
2	☐	1.000	0.786	4582.38	0.0009	P	4.1
3	☐	250.000	221.863	1117820.21	0.2127	P	0.6
4	☐	625.000	615.010	3113712.74	0.5894	A	1.4
5	☐	1250.000	1222.018	6265214.32	1.1711	A	1.7
6	☐	2500.000	2485.364	12429481.52	2.3816	A	2.5
7	☐	5000.000	5016.969	25228685.29	4.8074	A	0.7
8	☐			9833.55	0.0023	P	5.5

$$y = 9.5821E-004 * x + 1.3735E-004$$

$$R = 1.0000$$

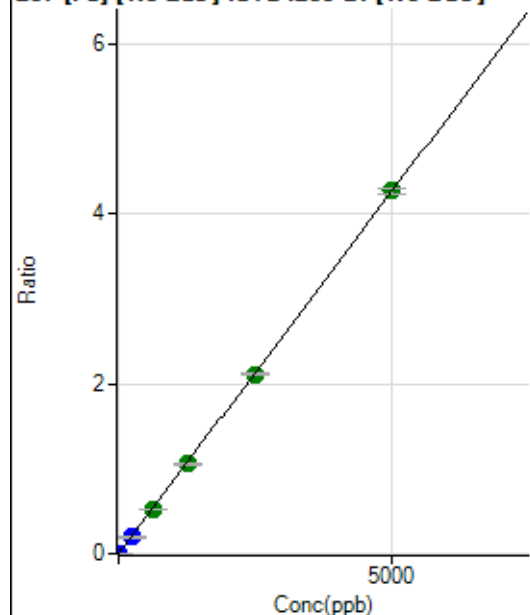
$$DL = 0.05839$$

$$BEC = 0.1433$$

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	603.73	0.0001	P	4.4
2	☐	1.000	0.794	4069.23	0.0008	P	7.0
3	☐	250.000	226.087	1010754.04	0.1924	P	1.4
4	☐	625.000	620.908	2790257.30	0.5281	A	0.5
5	☐	1250.000	1237.905	5631993.24	1.0528	A	2.4
6	☐	2500.000	2479.640	11004716.34	2.1088	A	0.5
7	☐	5000.000	5014.911	22375772.26	4.2648	A	1.7
8	☐			8514.08	0.0020	P	3.6

$$y = 8.5041\text{E-}004 * x + 1.1642\text{E-}004$$

$$R = 1.0000$$

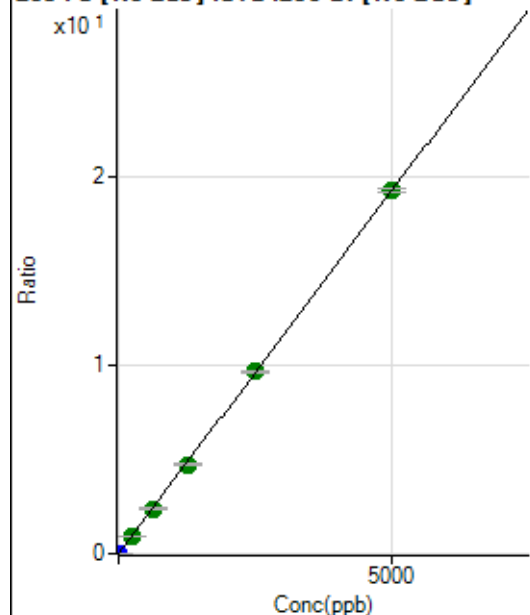
$$DL = 0.01806$$

$$BEC = 0.1369$$

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	2682.50	0.0005	P	8.9
2	☐	1.000	0.844	19387.38	0.0038	P	0.9
3	☐	250.000	236.331	4787325.35	0.9111	A	1.4
4	☐	625.000	620.520	12631644.89	2.3913	A	1.4
5	☐	1250.000	1228.639	25325475.13	4.7344	A	2.6
6	☐	2500.000	2506.893	50406551.63	9.6594	A	0.8
7	☐	5000.000	5003.138	101147386.1	19.2773	A	1.0
8	☐			39495.14	0.0091	P	3.9

$$y = 0.0039 * x + 5.1737\text{E-}004$$

$$R = 1.0000$$

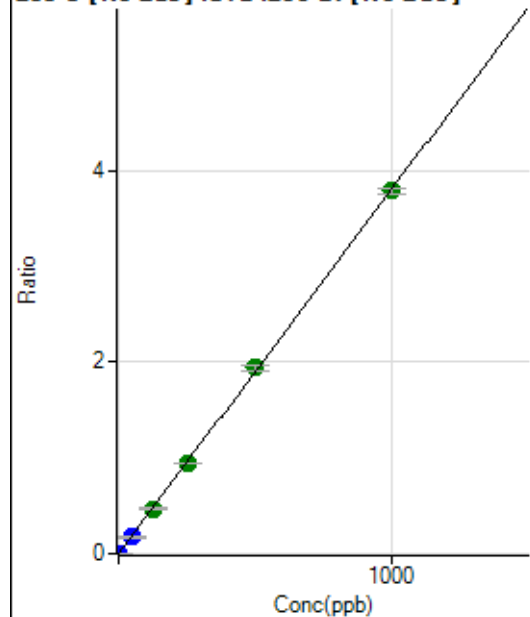
$$DL = 0.03573$$

$$BEC = 0.1343$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	41.6
2	☐	1.000	0.843	16505.69	0.0032	P	0.3
3	☐	50.000	44.942	898552.40	0.1710	P	0.7
4	☐	125.000	122.843	2468932.00	0.4674	A	2.6
5	☐	250.000	246.991	5028601.02	0.9398	A	0.9
6	☐	500.000	509.946	10124691.03	1.9404	A	2.6
7	☐	1000.000	996.302	19892750.10	3.7911	A	1.6
8	☐			5120.65	0.0012	P	2.0

$$y = 0.0038 * x + 2.1339E-006$$

$$R = 0.9999$$

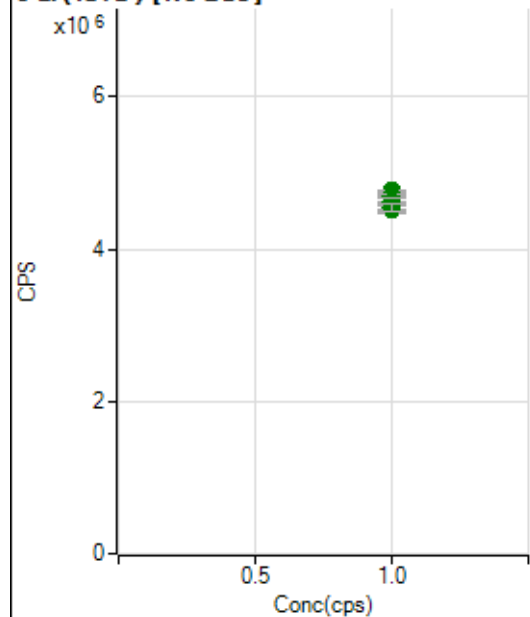
$$DL = 0.0007006$$

$$BEC = 0.0005608$$

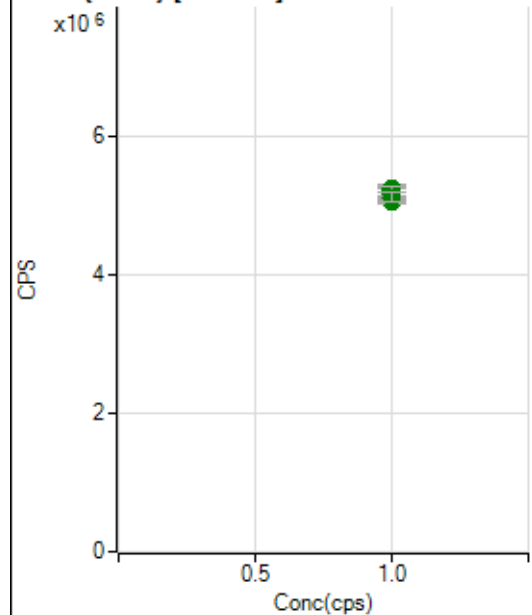
Weight: <None>

Min Conc: 0

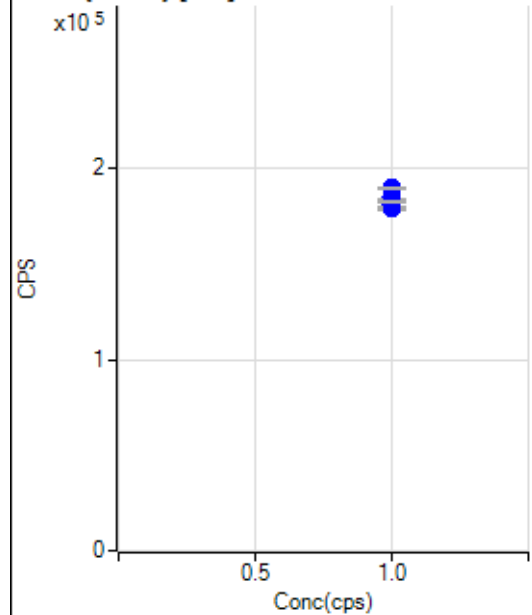
6 Li (ISTD) [No Gas]



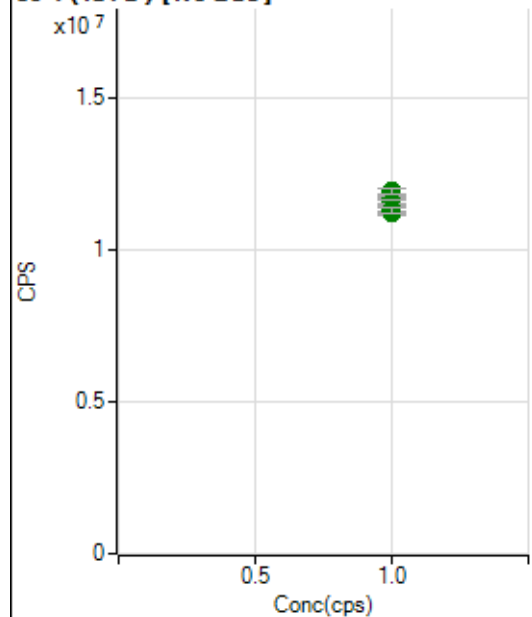
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4509965.17		A	2.3
2	☐	1.000		4609176.93		A	3.9
3	☐	1.000		4675860.58		A	2.5
4	☐	1.000		4762760.86		A	0.9
5	☐	1.000		4697642.18		A	0.8
6	☐	1.000		4699801.86		A	1.1
7	☐	1.000		4630280.29		A	2.0
8	☐	1.000		4542642.80		A	2.0

45 Sc (ISTD) [No Gas]

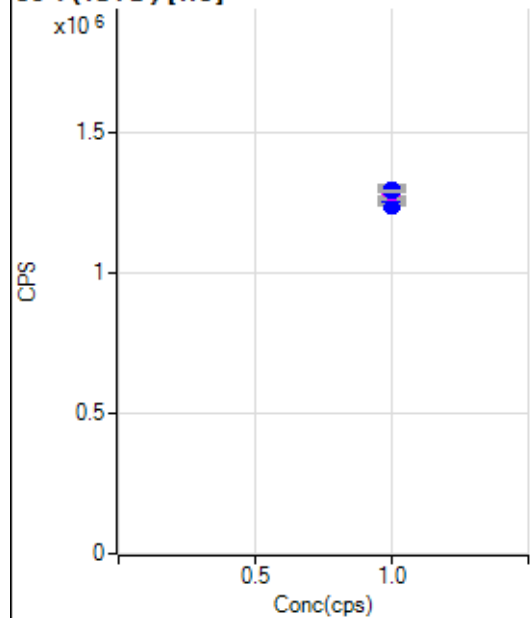
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5066268.64		A	1.3
2	☐	1.000		5076046.17		A	1.3
3	☐	1.000		5248167.87		A	2.2
4	☐	1.000		5176754.54		A	0.7
5	☐	1.000		5229253.78		A	0.6
6	☐	1.000		5164095.34		A	1.1
7	☐	1.000		5247980.76		A	1.5
8	☐	1.000		5125055.34		A	2.6

45 Sc (ISTD) [He]

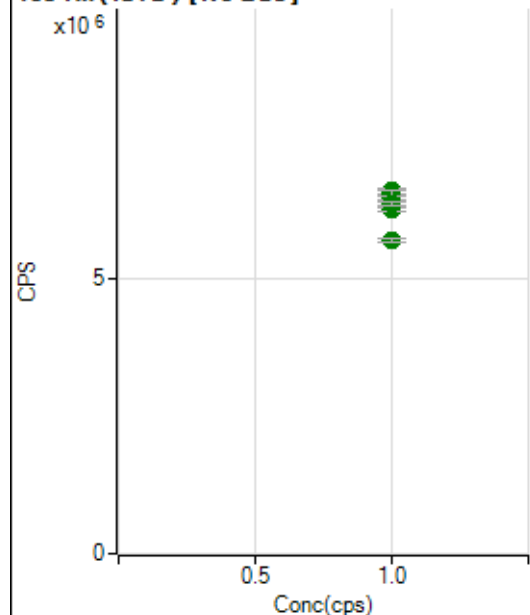
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		179480.54		P	1.3
2	☐	1.000		185442.19		P	5.1
3	☐	1.000		183688.00		P	0.8
4	☐	1.000		182197.39		P	0.5
5	☐	1.000		179546.28		P	0.3
6	☐	1.000		181533.06		P	1.6
7	☐	1.000		182669.64		P	0.2
8	☐	1.000		189931.29		P	0.7

89 Y (ISTD) [No Gas]

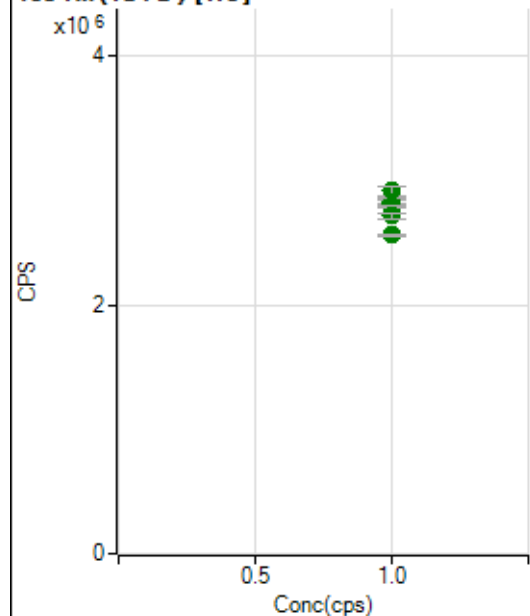
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11201355.39		A	1.0
2	☐	1.000		11350359.83		A	1.9
3	☐	1.000		11612503.44		A	1.9
4	☐	1.000		11755685.80		A	1.5
5	☐	1.000		11884926.35		A	2.0
6	☐	1.000		11730105.24		A	1.0
7	☐	1.000		11946213.29		A	1.5
8	☐	1.000		11301396.92		A	1.7

89 Y (ISTD) [He]

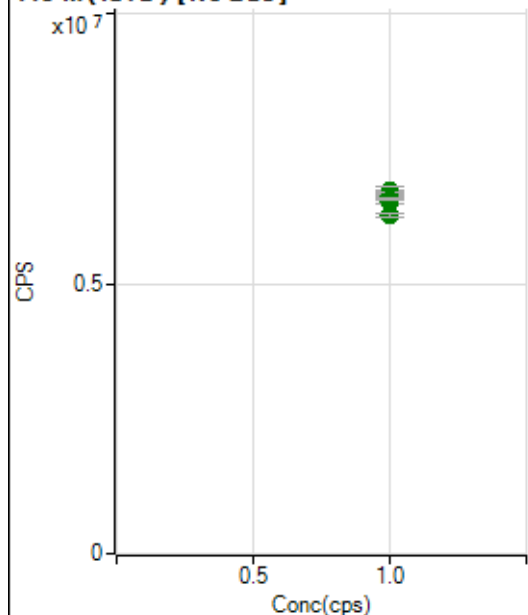
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1239908.30		P	0.2
2	☐	1.000		1282309.27		M	4.6
3	☐	1.000		1259793.56		P	1.2
4	☐	1.000		1251937.54		P	0.9
5	☐	1.000		1279504.75		M	2.8
6	☐	1.000		1263203.24		P	1.2
7	☐	1.000		1286382.45		M	3.6
8	☐	1.000		1291180.22		P	0.9

103 Rh (ISTD) [No Gas]

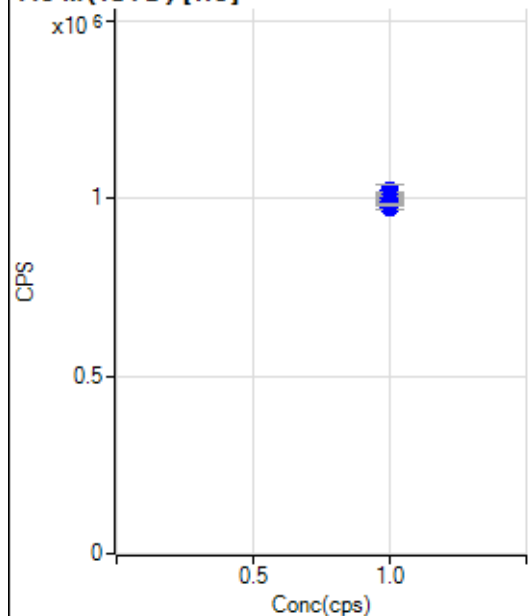
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6473765.94		A	0.9
2	☐	1.000		6462246.89		A	1.6
3	☐	1.000		6568473.06		A	2.3
4	☐	1.000		6600639.12		A	1.9
5	☐	1.000		6548926.84		A	1.5
6	☐	1.000		6271651.84		A	1.1
7	☐	1.000		6364521.84		A	0.7
8	☐	1.000		5704453.43		A	0.8

103 Rh (ISTD) [He]

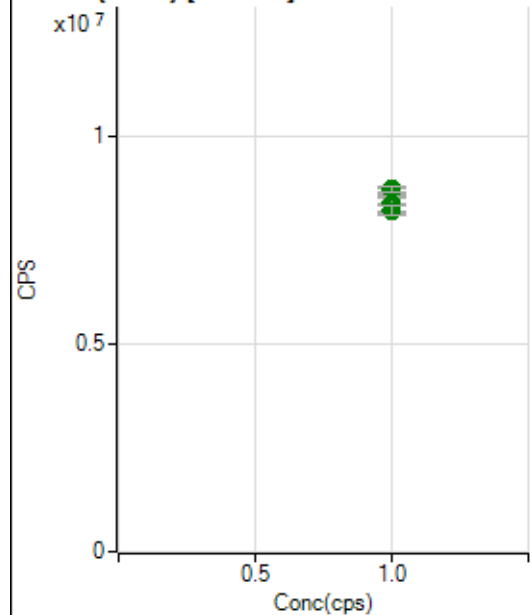
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2807502.42		A	0.8
2	☐	1.000		2917875.06		A	2.5
3	☐	1.000		2817654.07		A	1.9
4	☐	1.000		2824042.60		A	2.5
5	☐	1.000		2819019.25		A	2.6
6	☐	1.000		2795635.51		A	0.4
7	☐	1.000		2717578.83		A	1.5
8	☐	1.000		2562941.57		A	0.9

115 In (ISTD) [No Gas]

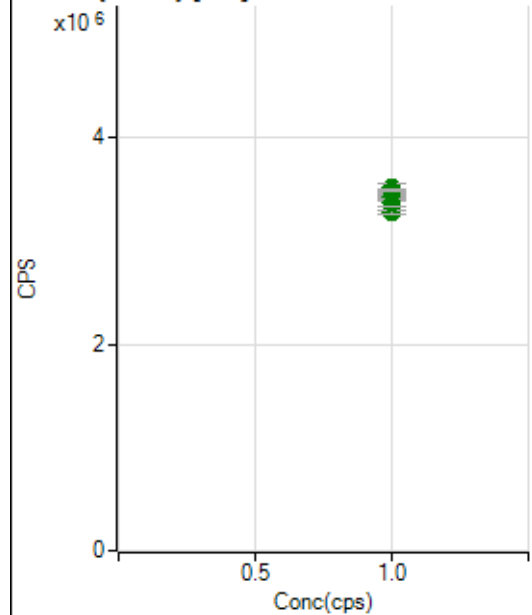
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6513919.89		A	1.4
2	☐	1.000		6579932.21		A	3.2
3	☐	1.000		6714310.78		A	2.4
4	☐	1.000		6686782.40		A	1.4
5	☐	1.000		6703360.15		A	2.6
6	☐	1.000		6629347.95		A	1.4
7	☐	1.000		6549773.95		A	0.5
8	☐	1.000		6262303.81		A	0.9

115 In (ISTD) [He]

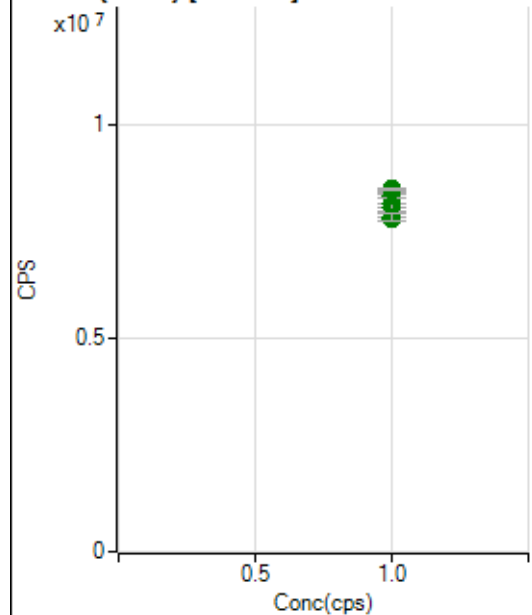
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		999040.08		P	1.1
2	☐	1.000		1022520.89		P	3.5
3	☐	1.000		1004801.50		P	0.5
4	☐	1.000		1015330.16		P	0.2
5	☐	1.000		1002651.07		P	1.2
6	☐	1.000		992399.20		P	1.1
7	☐	1.000		975763.48		P	1.3
8	☐	1.000		983994.15		P	0.5

159 Tb (ISTD) [No Gas]

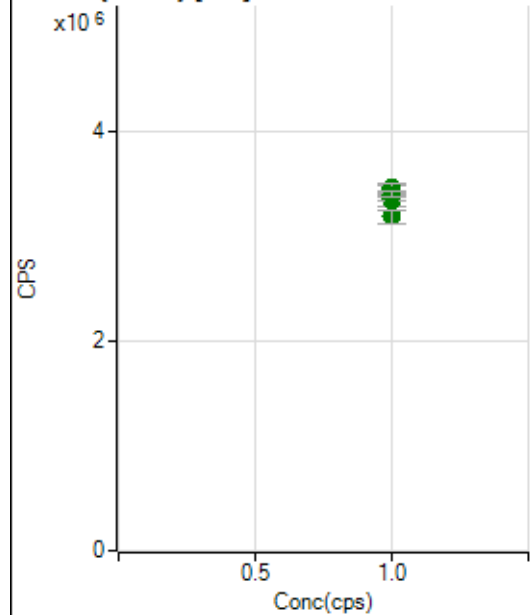
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8273862.65		A	2.6
2	☐	1.000		8249383.84		A	2.4
3	☐	1.000		8398384.39		A	4.6
4	☐	1.000		8451270.71		A	2.6
5	☐	1.000		8727216.68		A	2.1
6	☐	1.000		8669041.74		A	2.4
7	☐	1.000		8754493.90		A	1.6
8	☐	1.000		8232303.28		A	2.5

159 Tb (ISTD) [He]

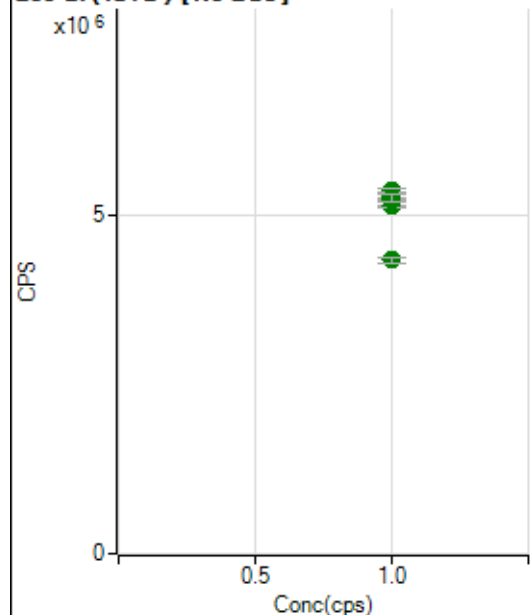
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3277204.67		A	1.4
2	☐	1.000		3377115.61		A	3.2
3	☐	1.000		3368125.12		A	1.7
4	☐	1.000		3427682.35		A	1.4
5	☐	1.000		3463339.95		A	1.1
6	☐	1.000		3512398.21		A	2.5
7	☐	1.000		3463704.98		A	0.3
8	☐	1.000		3488504.81		A	0.7

165 Ho (ISTD) [No Gas]

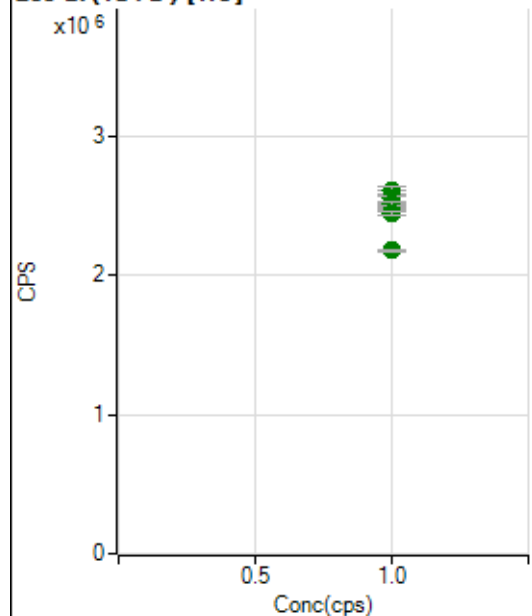
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7807881.43		A	1.2
2	☐	1.000		8001583.77		A	2.0
3	☐	1.000		8090810.77		A	2.2
4	☐	1.000		8152249.14		A	3.9
5	☐	1.000		8344974.75		A	1.3
6	☐	1.000		8468671.37		A	1.2
7	☐	1.000		8514198.19		A	0.4
8	☐	1.000		7850218.92		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3189375.72		A	3.9
2	☐	1.000		3351414.78		A	4.0
3	☐	1.000		3340547.27		A	0.4
4	☐	1.000		3418263.56		A	1.0
5	☐	1.000		3446377.31		A	2.5
6	☐	1.000		3464658.07		A	2.5
7	☐	1.000		3402587.28		A	1.2
8	☐	1.000		3398049.43		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5185804.12		A	2.5
2	☐	1.000		5142708.19		A	1.8
3	☐	1.000		5254438.25		A	1.7
4	☐	1.000		5283058.08		A	1.8
5	☐	1.000		5350389.36		A	1.2
6	☐	1.000		5218534.78		A	1.1
7	☐	1.000		5247669.30		A	2.1
8	☐	1.000		4325326.50		A	2.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2480258.03		A	0.8
2	☐	1.000		2553928.80		A	4.7
3	☐	1.000		2605883.07		A	1.9
4	☐	1.000		2551909.88		A	1.5
5	☐	1.000		2518260.73		A	0.4
6	☐	1.000		2514235.07		A	1.2
7	☐	1.000		2445815.22		A	1.3
8	☐	1.000		2179538.89		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8011123MS.b

Acq. Date-Time 2023-01-11 11:07:49

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		13994	139935.83			0.329	5.000
24		85773	857731.25			0.379	5.000
25		11076	110757.06			0.269	5.000
26		13125	131249.73			0.716	5.000
59		58390	583904.19			1.017	5.000
113		5872	58722.75			0.917	5.000
115		77545	775448.18			1.213	5.000
206		16367	163665.09			0.688	5.000
207		14678	146775.50			0.491	5.000
208		35286	352862.76			1.695	5.000
220		1	5.80			19.846	

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

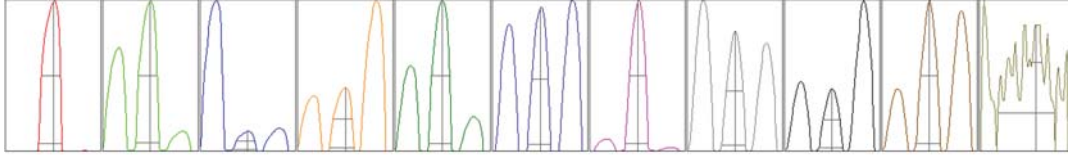
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13977	14062	14019	13953	13958
24	85569	85414	85686	85970	86226
25	11040	11090	11099	11048	11102
26	13183	13106	13253	13015	13068
59	57744	58158	59355	58296	58399
113	5865	5804	5946	5901	5846
115	77733	78661	78168	76660	76502
206	16222	16284	16498	16390	16438
207	14577	14711	14645	14769	14686
208	34585	34835	35570	35349	36093

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	0	1	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	24705.53	9.05	8.90 - 9.10	
24	154156.79	24.00	23.90 - 24.10	
25	19934.41	25.00	24.90 - 25.10	
26	23042.73	26.05	25.90 - 26.10	
59	109182.63	59.00	58.90 - 59.10	
113	11857.50	113.05	112.90 - 113.10	
115	157358.63	115.05	114.90 - 115.10	
206	32479.40	206.05	205.90 - 206.10	
207	29320.85	207.00	206.90 - 207.10	
208	70750.55	208.00	207.90 - 208.10	
220	0.75	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.737	0.900	
24	0.59	0.740	0.900	
25	0.58	0.760	0.900	
26	0.60	0.783	0.900	
59	0.56	0.734	0.900	
113	0.51	0.724	0.900	
115	0.51	0.720	0.900	
206	0.53	0.763	0.900	
207	0.53	0.754	0.900	
208	0.53	0.775	0.900	
220	0.33	1.767		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	10.7 V	Deflect	15.2 V
Extract 2	-210.0 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	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2304 V	Pulse HV	1633 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12918	129184.69			1.112	
89		14514	145143.99			0.654	
205		10100	100997.70			1.240	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12912	13084	12690	12972	12935
89	14580	14396	14426	14592	14577
205	10165	10072	9915	10094	10253

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	10.7 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-210.0 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2304 V	Pulse HV	1633 V
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