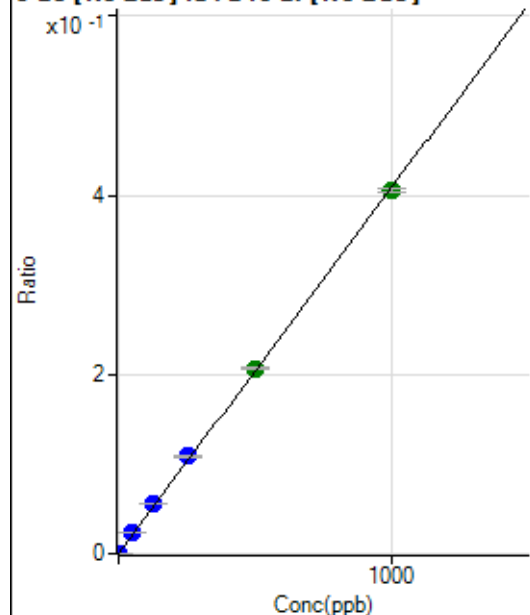


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072021MS.b\
Analysis File: P8072021MS.batch.bin
DA Date-Time: 2021-07-20 23:42:09
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-07-20 07:55:31
2	004CALS.d	S02	2021-07-20 07:58:37
3	005CALS.d	S03	2021-07-20 08:01:40
4	006CALS.d	S04	2021-07-20 08:04:46
5	007CALS.d	S05	2021-07-20 08:07:49
6	008CALS.d	S06	2021-07-20 08:10:54
7	009CALS.d	S07	2021-07-20 08:13:57
8	010CALS.d	S08	2021-07-20 08:17:02

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.99	0.0000	P	20.0
2	☐	1.000	1.226	2811.72	0.0005	P	4.1
3	☐	50.000	56.226	132260.68	0.0230	P	0.6
4	☐	125.000	136.726	330407.74	0.0559	P	0.7
5	☐	250.000	265.394	664136.07	0.1084	P	0.8
6	☐	500.000	506.225	1261702.09	0.2068	A	1.3
7	☐	1000.000	991.262	2474428.07	0.4048	A	1.1
8	☐			338.60	0.0001	P	11.8

$$y = 4.0840\text{E-}004 * x + 1.1903\text{E-}005$$

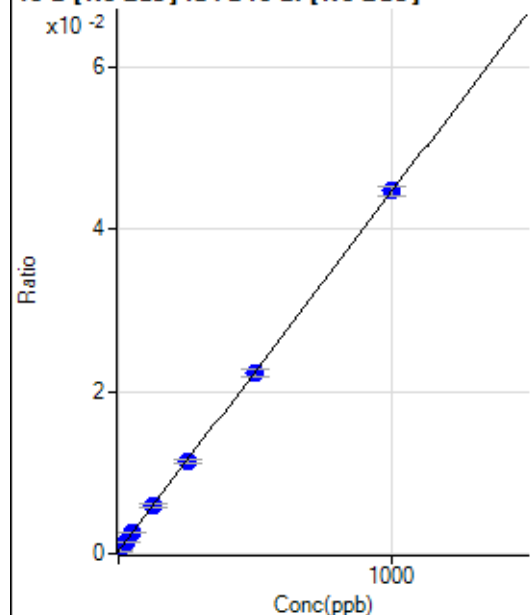
$$R = 0.9998$$

$$DL = 0.01745$$

$$BEC = 0.02915$$

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	1945.75	0.0004	P	7.7
2	☐	25.000	25.604	8160.02	0.0015	P	6.9
3	☐	50.000	50.862	15004.73	0.0026	P	4.3
4	☐	125.000	125.963	35112.93	0.0059	P	4.8
5	☐	250.000	247.385	69332.24	0.0113	P	3.9
6	☐	500.000	495.539	136155.42	0.0223	P	4.0
7	☐	1000.000	1002.706	273655.97	0.0448	P	2.8
8	☐			24176.53	0.0041	P	12.7

$$y = 4.4302\text{E-}005 * x + 3.5255\text{E-}004$$

$$R = 1.0000$$

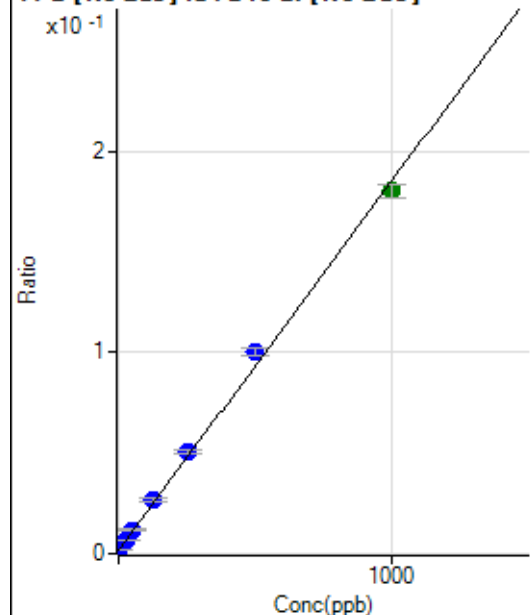
$$DL = 1.833$$

$$BEC = 7.958$$

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	8744.24	0.0016	P	4.2
2	☐	25.000	28.091	36942.99	0.0067	P	3.7
3	☐	50.000	55.908	68130.53	0.0118	P	3.2
4	☐	125.000	136.959	157973.06	0.0267	P	5.0
5	☐	250.000	268.917	311868.45	0.0509	P	4.2
6	☐	500.000	538.386	612148.35	0.1003	P	3.3
7	☐	1000.000	974.210	1101267.89	0.1802	A	3.8
8	☐			109607.46	0.0187	P	12.4

$$y = 1.8333\text{E-}004 * x + 0.0016$$

$$R = 0.9987$$

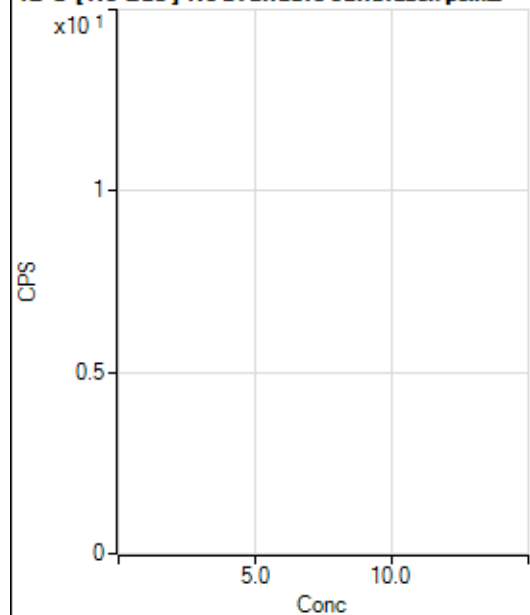
$$DL = 1.086$$

$$BEC = 8.636$$

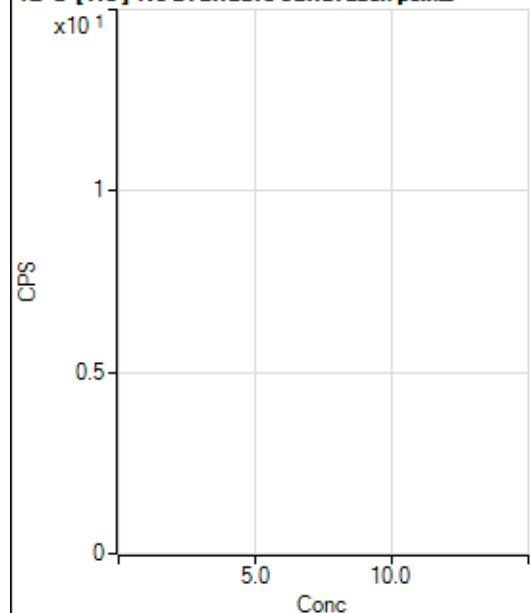
Weight: <None>

Min Conc: 0

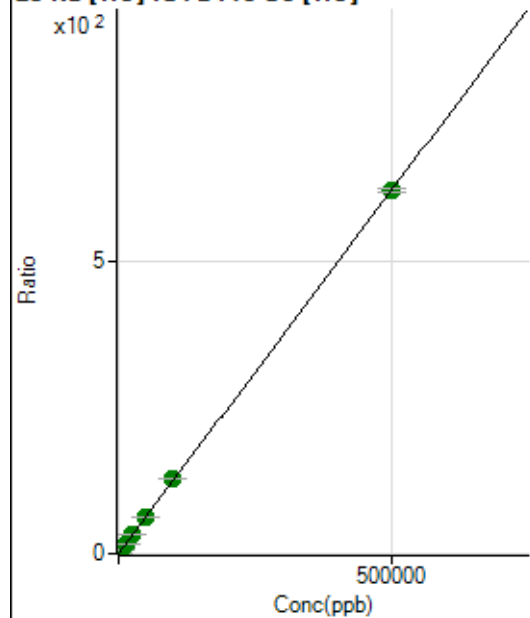
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4430177.53		A	2.7
2	☐			4428179.22		A	0.6
3	☐			4611458.13		A	0.8
4	☐			4776993.42		A	1.4
5	☐			5027949.42		A	2.1
6	☐			5487389.83		A	2.6
7	☐			6248438.38		A	3.9
8	☐			5584849.30		A	2.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47455.21		P	1.1
2	☐			46471.29		P	0.9
3	☐			48614.61		P	0.9
4	☐			50804.99		P	1.0
5	☐			55627.90		P	0.9
6	☐			62567.23		P	1.0
7	☐			71837.05		P	2.3
8	☐			68111.20		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	32912.68	0.1304	P	1.3
2	☐	500.000	556.317	205224.14	0.8196	P	1.1
3	☐	5000.000	5199.678	1659642.12	6.5717	A	0.6
4	☐	12500.000	12881.153	3966441.63	16.0874	A	0.6
5	☐	25000.000	25670.506	7759093.66	31.9307	A	0.7
6	☐	50000.000	51082.919	15145125.34	63.4113	A	1.1
7	☐	100000.00	102816.48	30681670.83	127.4981	A	1.0
8	☐	500000.00	499283.30	153242678.4	618.6358	A	1.2

$$y = 0.0012 * x + 0.1304$$

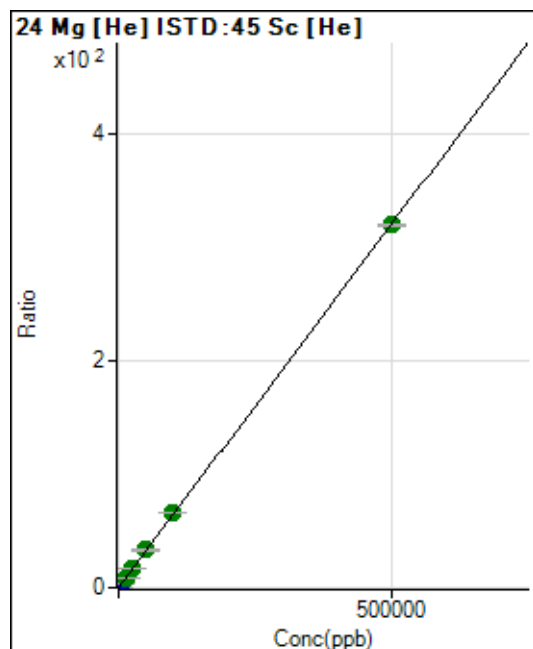
$$R = 1.0000$$

$$DL = 3.97$$

$$BEC = 105.3$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.00	0.0006	P	16.8
2	☐	500.000	564.204	90749.14	0.3624	P	0.9
3	☐	5000.000	5493.368	889852.87	3.5236	P	0.9
4	☐	12500.000	13291.899	2101866.33	8.5249	A	0.5
5	☐	25000.000	26134.261	4072910.03	16.7609	A	0.8
6	☐	50000.000	51609.259	7905173.53	33.0984	A	1.5
7	☐	100000.00	103865.48	16030497.41	66.6112	A	0.8
8	☐	500000.00	498984.46	79272229.55	320.0073	A	0.5

$$y = 6.4132\text{E-}004 * x + 5.9455\text{E-}004$$

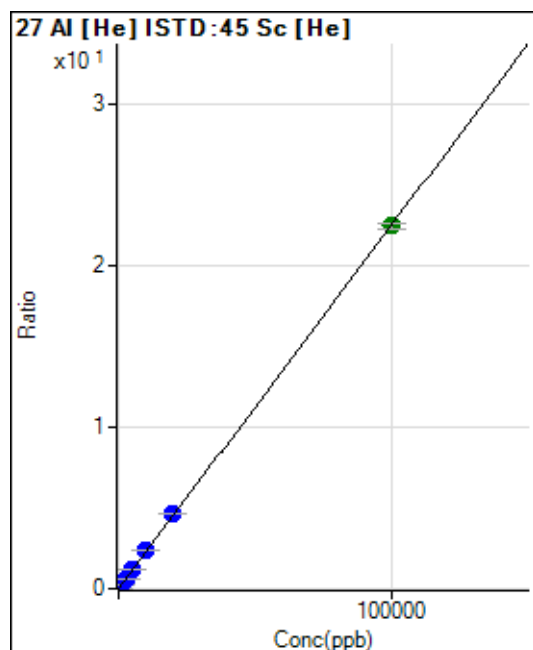
$$R = 1.0000$$

$$DL = 0.4663$$

$$BEC = 0.9271$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132.07	0.0005	P	9.9
2	☐	20.000	22.885	1420.32	0.0057	P	0.7
3	☐	1000.000	1073.307	61114.91	0.2420	P	0.1
4	☐	2500.000	2646.850	146950.69	0.5960	P	0.3
5	☐	5000.000	5254.160	287348.08	1.1826	P	0.5
6	☐	10000.000	10462.593	562322.58	2.3544	P	0.7
7	☐	20000.000	20691.763	1120373.92	4.6557	P	0.4
8	☐	100000.00	99798.275	5561881.28	22.4530	A	1.3

$$y = 2.2498\text{E-}004 * x + 5.2337\text{E-}004$$

$$R = 1.0000$$

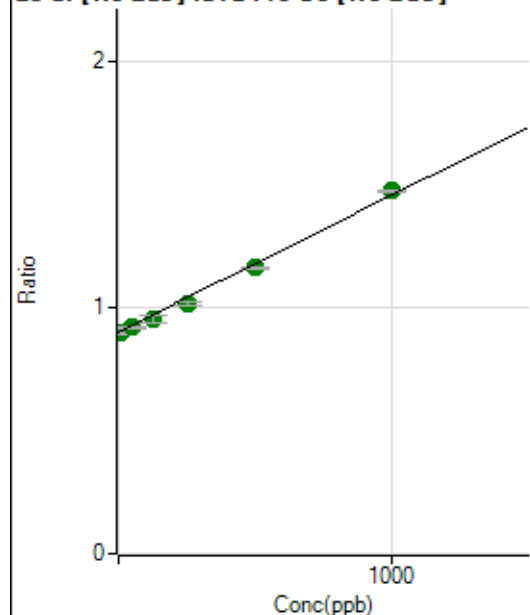
$$DL = 0.6929$$

$$BEC = 2.326$$

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	7011458.32	0.8996	A	0.6
2	☐	10.000	-11.521	7031203.98	0.8932	A	1.0
3	☐	50.000	32.633	7277844.95	0.9177	A	0.6
4	☐	125.000	93.823	7478766.92	0.9516	A	2.7
5	☐	250.000	209.636	7963943.67	1.0158	A	1.4
6	☐	500.000	467.193	9064168.61	1.1586	A	1.1
7	☐	1000.000	1031.475	11404535.67	1.4713	A	0.7
8	☐			6958445.81	0.8948	A	3.5

$$y = 5.5431E-004 * x + 0.8996$$

R = 0.9986

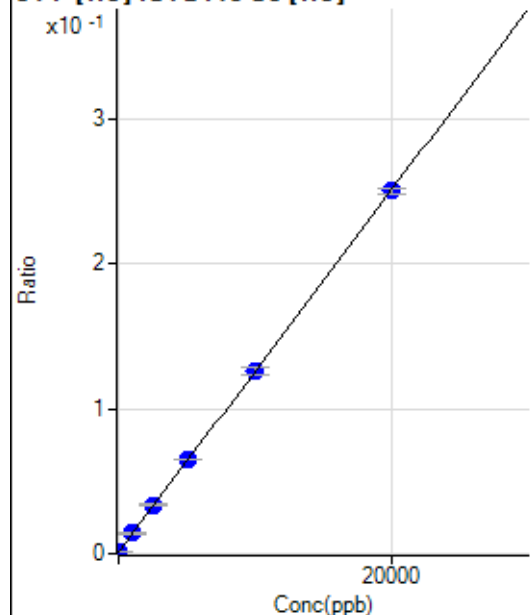
DL = 28.89

BEC = 1623

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	-9.177	238.90	0.0009	P	10.6
2	☐	0.000	9.177	294.45	0.0012	P	8.5
3	☐	1000.000	1036.993	3533.86	0.0140	P	2.4
4	☐	2500.000	2618.570	8310.93	0.0337	P	3.3
5	☐	5000.000	5113.018	15750.63	0.0648	P	1.0
6	☐	10000.000	9997.996	30031.73	0.1257	P	3.7
7	☐	20000.000	19956.077	60136.38	0.2499	P	1.6
8	☐			252.79	0.0010	P	10.8

$$y = 1.2470E-005 * x + 0.0011$$

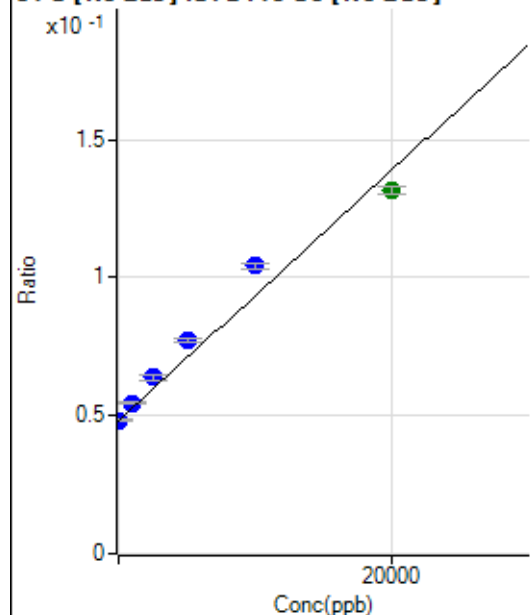
R = 1.0000

DL = 24.14

BEC = 85.1

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	-12.891	375433.09	0.0482	P	0.7
2	☐	0.000	12.891	380115.23	0.0483	P	0.6
3	☐	1000.000	1418.171	433523.09	0.0547	P	0.5
4	☐	2500.000	3425.308	501219.27	0.0638	P	2.3
5	☐	5000.000	6403.317	605907.62	0.0773	P	1.1
6	☐	10000.000	12343.197	815423.75	0.1042	P	1.9
7	☐	20000.000	18341.000	1018691.29	0.1314	A	2.1
8	☐			328516.13	0.0422	P	2.0

$$y = 4.5373\text{E-}006 * x + 0.0482$$

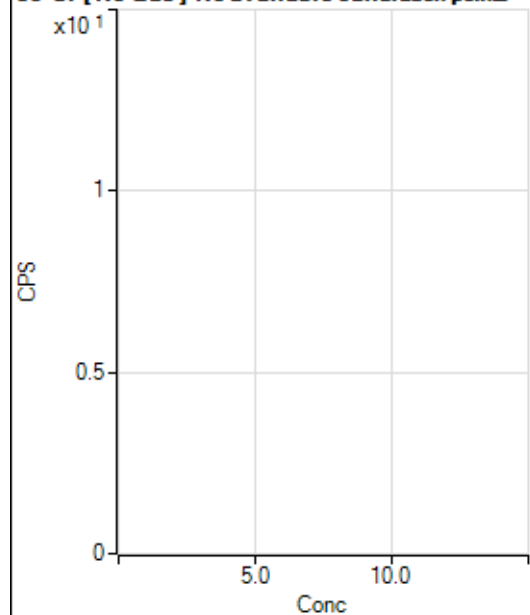
$$R = 0.9854$$

$$DL = 219.1$$

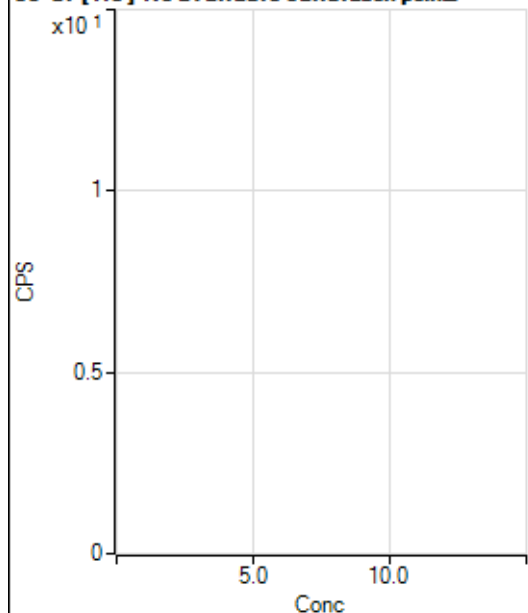
$$BEC = 1.063\text{E}+04$$

Weight: <None>

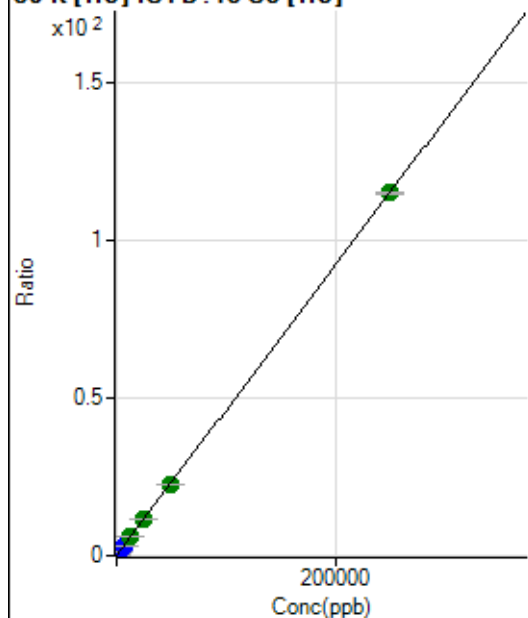
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			383037.24		P	2.0
2	☐			362389.20		P	0.9
3	☐			360166.39		P	0.7
4	☐			343314.53		P	0.8
5	☐			327327.75		P	0.3
6	☐			317360.71		P	0.3
7	☐			305706.60		P	0.3
8	☐			301126.25		P	0.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2755.89		P	9.3
2	☐			2608.64		P	7.8
3	☐			2441.94		P	12.3
4	☐			2372.48		P	4.2
5	☐			2144.66		P	8.1
6	☐			2039.09		P	5.2
7	☐			1977.96		P	4.7
8	☐			2261.35		P	5.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19304.97	0.0765	P	2.1
2	☐	500.000	548.483	82351.34	0.3289	P	0.5
3	☐	2500.000	2696.291	332647.76	1.3172	P	0.8
4	☐	6250.000	6643.735	772587.86	3.1336	P	0.8
5	☐	12500.000	12637.182	1431611.41	5.8914	A	0.9
6	☐	25000.000	24737.537	2736892.79	11.4593	A	2.0
7	☐	50000.000	49405.111	5488841.75	22.8098	A	0.6
8	☐	250000.00	250126.46	28529880.15	115.1699	A	0.5

$$y = 4.6014\text{E-}004 * x + 0.0765$$

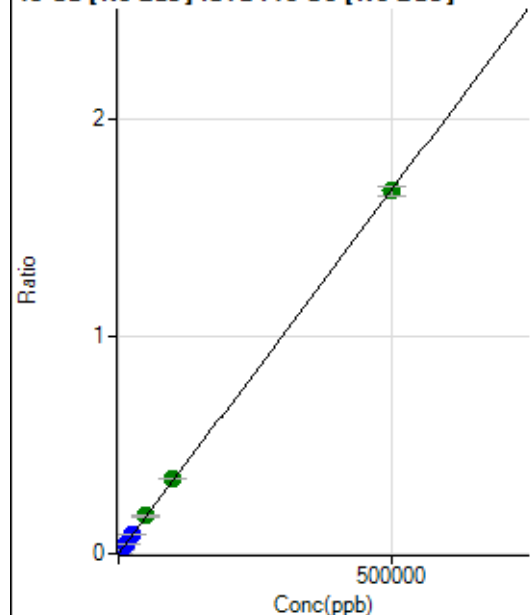
$$R = 1.0000$$

$$DL = 10.58$$

$$BEC = 166.3$$

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	430.79	0.0001	P	4.6
2	☐	500.000	534.320	14498.82	0.0018	P	1.2
3	☐	5000.000	5272.898	140249.54	0.0177	P	0.2
4	☐	12500.000	13224.889	347986.01	0.0443	P	1.8
5	☐	25000.000	26377.170	691831.49	0.0882	P	1.3
6	☐	50000.000	51685.933	1352322.50	0.1729	A	1.6
7	☐	100000.00	103305.64	2677443.16	0.3454	A	0.5
8	☐	500000.00	499080.53	12977161.31	1.6686	A	2.8

$$y = 3.3433\text{E-}006 * x + 5.5275\text{E-}005$$

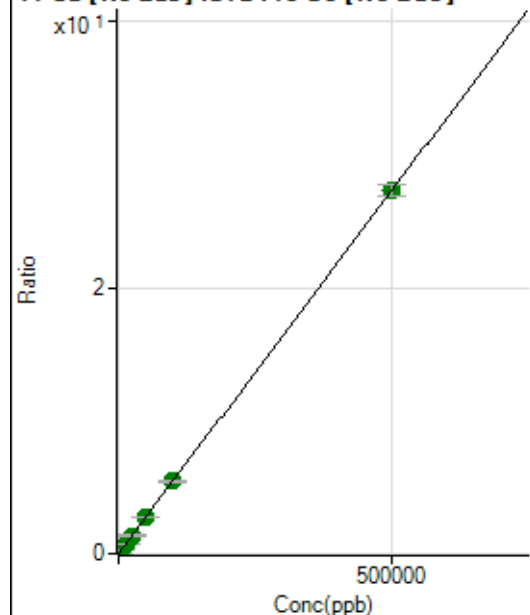
$$R = 1.0000$$

$$DL = 2.286$$

$$BEC = 16.53$$

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	29567.30	0.0038	P	0.7
2	☐	500.000	536.854	260104.97	0.0330	P	0.2
3	☐	5000.000	5107.110	2236618.99	0.2820	A	1.2
4	☐	12500.000	12643.201	5445642.90	0.6926	A	0.7
5	☐	25000.000	24892.973	10661841.14	1.3599	A	2.0
6	☐	50000.000	49447.589	21106093.44	2.6976	A	0.6
7	☐	100000.00	99740.129	42142080.64	5.4374	A	1.6
8	☐	500000.00	500107.87	211919110.4	27.2483	A	3.0

$$y = 5.4477\text{E-}005 * x + 0.0038$$

$$R = 1.0000$$

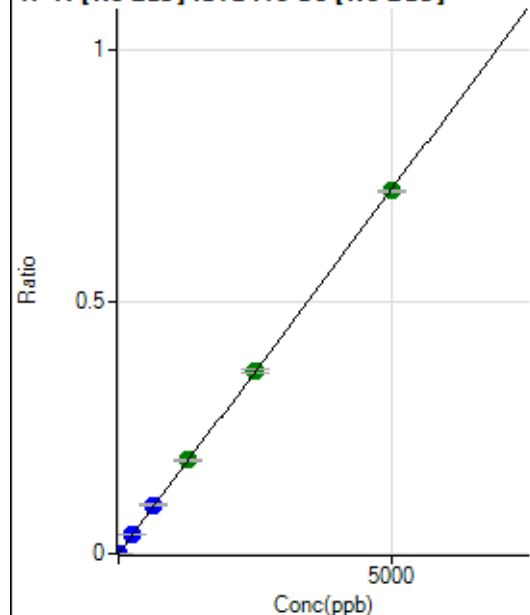
$$DL = 1.441$$

$$BEC = 69.64$$

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	183.34	0.0000	P	4.7
2	☐	5.000	5.611	6568.37	0.0008	P	5.1
3	☐	250.000	268.312	307599.34	0.0388	P	1.2
4	☐	625.000	667.637	758367.22	0.0965	P	1.8
5	☐	1250.000	1281.636	1451799.69	0.1852	A	2.0
6	☐	2500.000	2508.430	2836032.33	0.3624	A	1.9
7	☐	5000.000	4981.630	5578827.34	0.7197	A	0.7
8	☐			1202.86	0.0002	P	6.6

$$y = 1.4447\text{E-}004 * x + 2.3524\text{E-}005$$

$$R = 1.0000$$

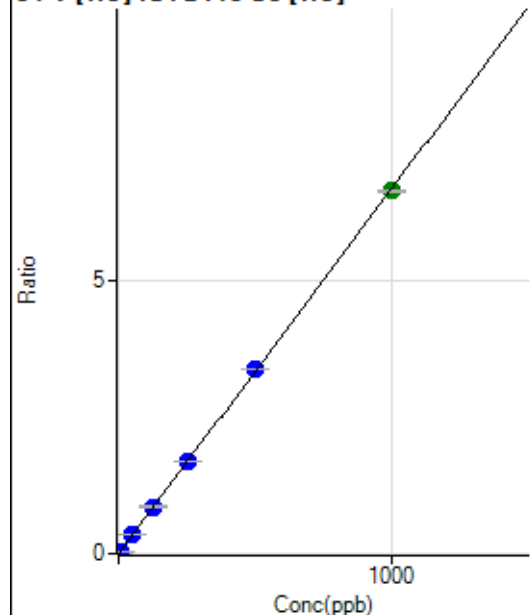
$$DL = 0.02292$$

$$BEC = 0.1628$$

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	3.33	0.0000	P	0.1
2	☐	5.000	5.684	9477.66	0.0379	P	2.1
3	☐	50.000	51.482	86552.92	0.3427	P	0.7
4	☐	125.000	128.910	211580.14	0.8581	P	0.7
5	☐	250.000	254.839	412205.08	1.6964	P	0.3
6	☐	500.000	506.743	805682.94	3.3733	P	0.6
7	☐	1000.000	994.853	1593666.14	6.6225	A	0.5
8	☐			368.90	0.0015	P	7.7

$$y = 0.0067 * x + 1.3197\text{E-}005$$

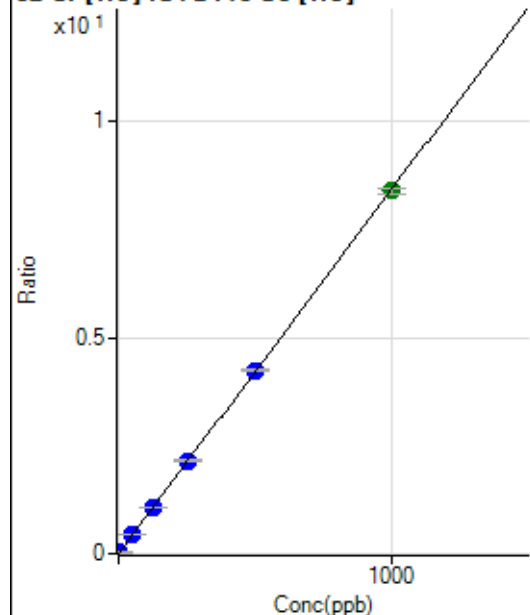
$$R = 1.0000$$

$$DL = 5.86\text{E-}06$$

$$BEC = 0.001983$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1026.72	0.0041	P	1.0
2	☐	2.000	2.189	5635.61	0.0225	P	3.7
3	☐	50.000	51.441	110449.94	0.4374	P	1.1
4	☐	125.000	128.174	267179.14	1.0837	P	1.0
5	☐	250.000	255.410	523728.20	2.1554	P	0.3
6	☐	500.000	503.620	1014128.82	4.2460	P	0.7
7	☐	1000.000	996.369	2020346.77	8.3965	A	1.6
8	☐			8017.89	0.0324	P	2.1

$$y = 0.0084 * x + 0.0041$$

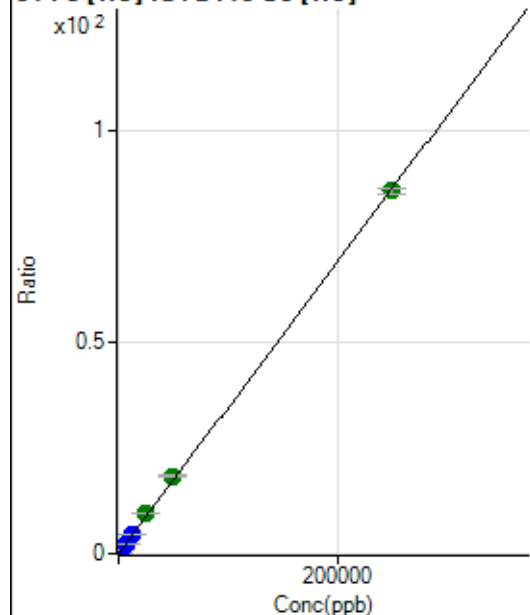
$$R = 1.0000$$

$$DL = 0.01474$$

$$BEC = 0.4831$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	425.94	0.0017	P	17.0
2	☐	50.000	62.847	5840.19	0.0233	P	4.1
3	☐	2500.000	2806.481	244475.59	0.9680	P	0.8
4	☐	6250.000	6961.425	591406.06	2.3987	P	0.7
5	☐	12500.000	13753.930	1151173.87	4.7375	P	0.5
6	☐	25000.000	27488.195	2261017.33	9.4666	A	0.6
7	☐	50000.000	53235.250	4411043.13	18.3319	A	1.3
8	☐	250000.00	249020.58	21239718.30	85.7458	A	1.5

$$y = 3.4433E-004 * x + 0.0017$$

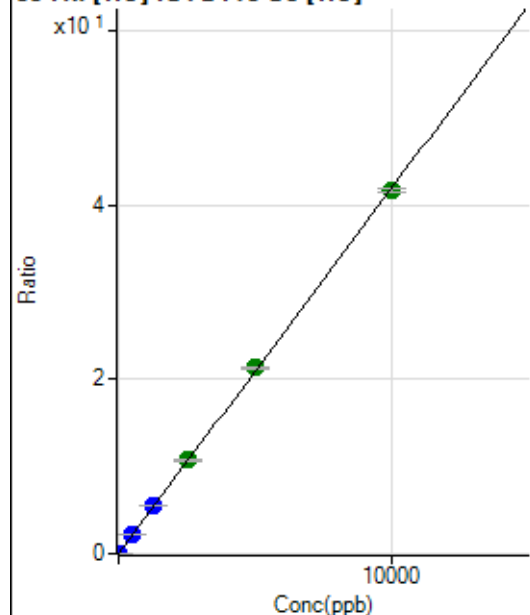
$$R = 0.9999$$

$$DL = 2.506$$

$$BEC = 4.903$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58.89	0.0002	P	21.5
2	☐	1.000	1.146	1262.29	0.0050	P	4.0
3	☐	500.000	523.310	554339.01	2.1950	P	0.9
4	☐	1250.000	1316.604	1361538.76	5.5222	P	0.3
5	☐	2500.000	2562.228	2611355.83	10.7464	A	0.7
6	☐	5000.000	5084.870	5093567.25	21.3265	A	1.7
7	☐	10000.000	9932.517	10024096.66	41.6578	A	0.9
8	☐			7757.73	0.0313	P	1.3

$$y = 0.0042 * x + 2.3341E-004$$

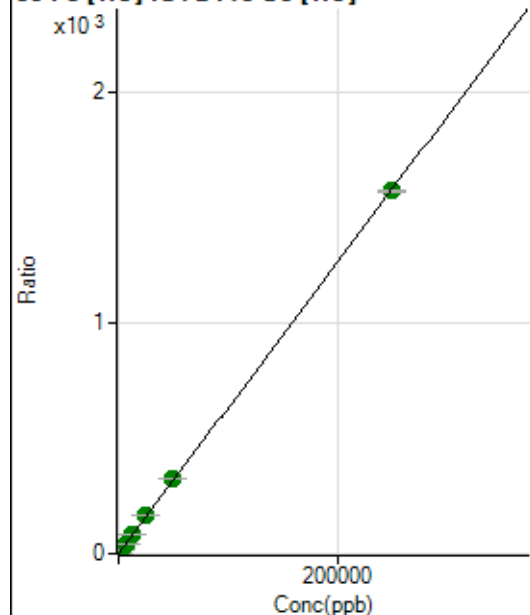
$$R = 0.9999$$

$$DL = 0.03593$$

$$BEC = 0.05565$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3281.93	0.0130	P	4.1
2	☐	50.000	59.313	96829.94	0.3867	P	1.3
3	☐	2500.000	2682.898	4271994.91	16.9157	A	0.6
4	☐	6250.000	6653.088	10337358.45	41.9285	A	1.1
5	☐	12500.000	13204.295	20217242.12	83.2022	A	0.2
6	☐	25000.000	26252.969	39507130.98	165.4109	A	0.6
7	☐	50000.000	51949.391	78761423.06	327.3025	A	0.6
8	☐	250000.00	249437.70	389290656.8	1,571.510	A	0.8

$$y = 0.0063 * x + 0.0130$$

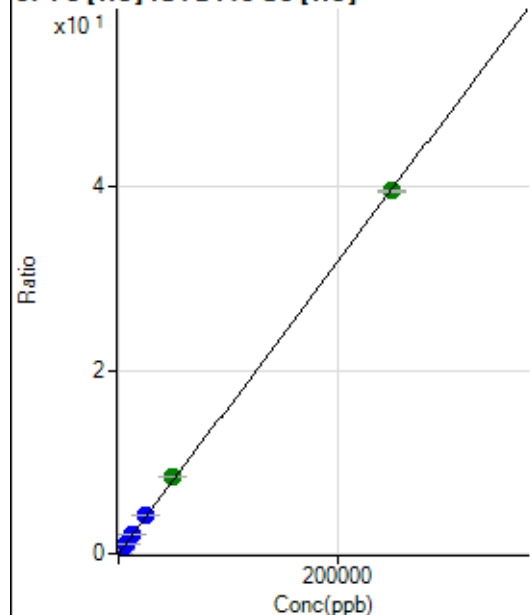
$$R = 1.0000$$

$$DL = 0.2541$$

$$BEC = 2.064$$

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	87.04	0.0003	P	62.9
2	☐	50.000	57.596	2376.17	0.0095	P	4.7
3	☐	2500.000	2718.751	109091.74	0.4320	P	0.3
4	☐	6250.000	6826.814	267304.36	1.0842	P	0.6
5	☐	12500.000	13483.470	520229.13	2.1410	P	0.5
6	☐	25000.000	26621.102	1009512.73	4.2267	P	0.4
7	☐	50000.000	52581.623	2009122.82	8.3481	A	1.0
8	☐	250000.00	249255.78	9802728.46	39.5718	A	0.7

$$y = 1.5876E-004 * x + 3.4482E-004$$

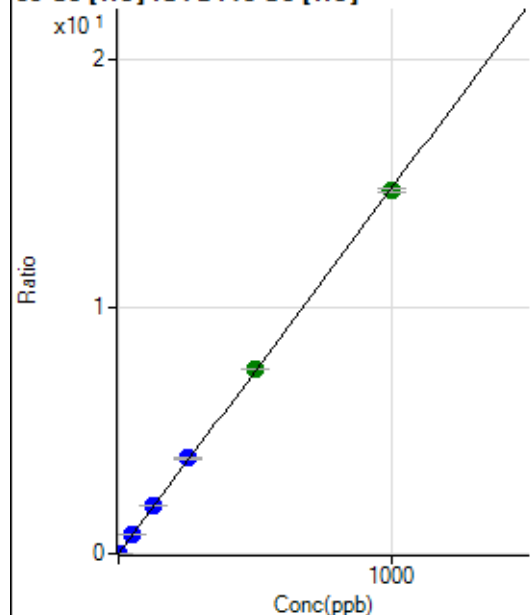
R = 0.9999

DL = 4.097

BEC = 2.172

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	57.78	0.0002	P	52.1
2	☐	1.000	1.129	4244.01	0.0169	P	4.7
3	☐	50.000	52.950	197974.17	0.7839	P	0.2
4	☐	125.000	132.351	483030.21	1.9591	P	0.7
5	☐	250.000	260.923	938403.00	3.8620	P	0.7
6	☐	500.000	506.337	1789966.75	7.4943	A	0.4
7	☐	1000.000	993.035	3536757.87	14.6977	A	1.1
8	☐			5139.88	0.0207	P	1.0

$$y = 0.0148 * x + 2.2902E-004$$

R = 0.9999

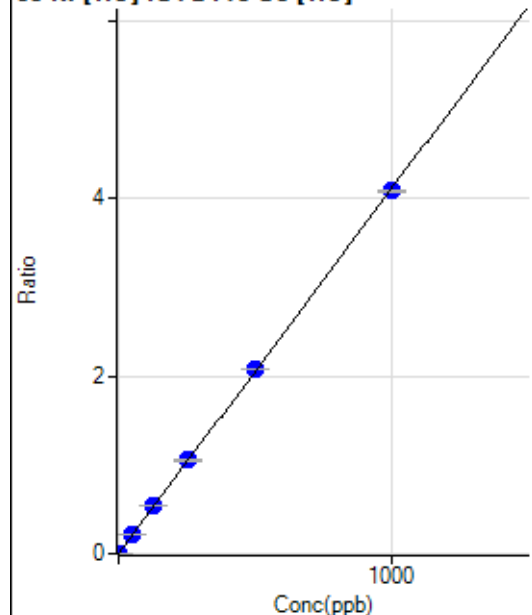
DL = 0.02418

BEC = 0.01547

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	68.89	0.0003	P	17.0
2	☐	1.000	1.176	1278.96	0.0051	P	2.9
3	☐	50.000	52.439	54511.58	0.2159	P	0.7
4	☐	125.000	131.480	133332.66	0.5408	P	1.1
5	☐	250.000	256.329	256109.25	1.0541	P	0.9
6	☐	500.000	506.282	497181.29	2.0816	P	0.2
7	☐	1000.000	994.345	983718.37	4.0881	P	0.7
8	☐			2584.71	0.0104	P	3.5

$$y = 0.0041 * x + 2.7304E-004$$

$$R = 0.9999$$

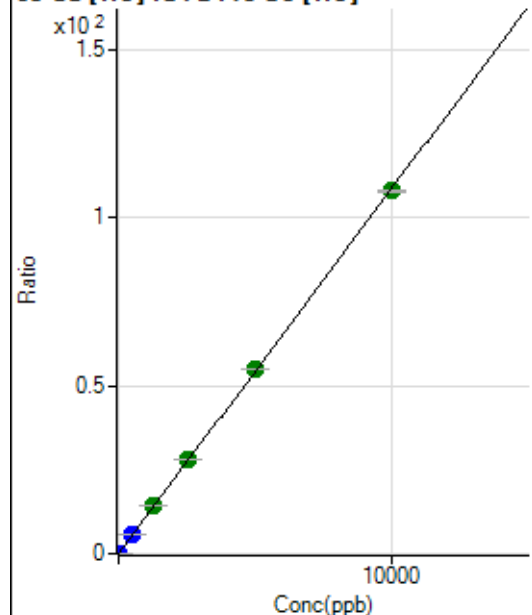
$$DL = 0.03396$$

$$BEC = 0.06642$$

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	791.14	0.0031	P	3.3
2	☐	2.000	2.216	6803.92	0.0272	P	2.7
3	☐	500.000	540.089	1480610.74	5.8629	P	1.1
4	☐	1250.000	1316.311	3522039.98	14.2845	A	0.1
5	☐	2500.000	2572.829	6783602.68	27.9172	A	0.4
6	☐	5000.000	5055.809	13102200.36	54.8564	A	0.8
7	☐	10000.000	9943.595	25962718.78	107.8868	A	0.5
8	☐			9115.22	0.0368	P	3.1

$$y = 0.0108 * x + 0.0031$$

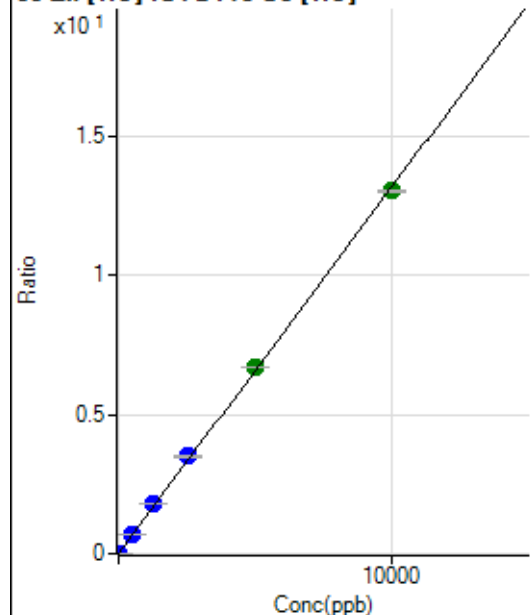
$$R = 0.9999$$

$$DL = 0.02884$$

$$BEC = 0.289$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	683.36	0.0027	P	10.1
2	☐	2.000	2.182	1396.75	0.0056	P	7.6
3	☐	500.000	536.455	178832.53	0.7081	P	0.5
4	☐	1250.000	1346.676	437277.64	1.7735	P	0.4
5	☐	2500.000	2650.870	847666.20	3.4885	P	0.9
6	☐	5000.000	5087.326	1598433.07	6.6923	A	0.6
7	☐	10000.000	9904.712	3134940.02	13.0270	A	0.8
8	☐			9197.51	0.0371	P	0.7

$$y = 0.0013 * x + 0.0027$$

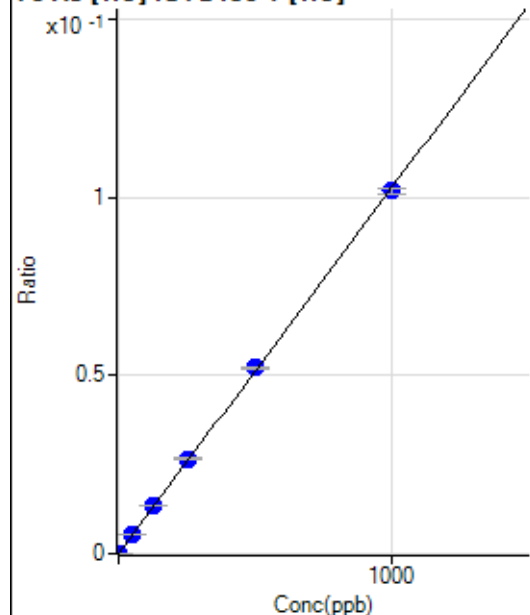
$$R = 0.9998$$

$$DL = 0.6245$$

$$BEC = 2.06$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9.00	0.0000	P	11.2
2	☐	1.000	1.215	244.03	0.0001	P	9.1
3	☐	50.000	52.549	10382.86	0.0054	P	0.6
4	☐	125.000	129.758	25417.31	0.0133	P	1.1
5	☐	250.000	258.211	49732.50	0.0265	P	2.1
6	☐	500.000	509.092	96647.62	0.0523	P	0.8
7	☐	1000.000	992.679	191528.48	0.1020	P	1.3
8	☐			64.68	0.0000	P	6.3

$$y = 1.0271E-004 * x + 4.6955E-006$$

$$R = 0.9999$$

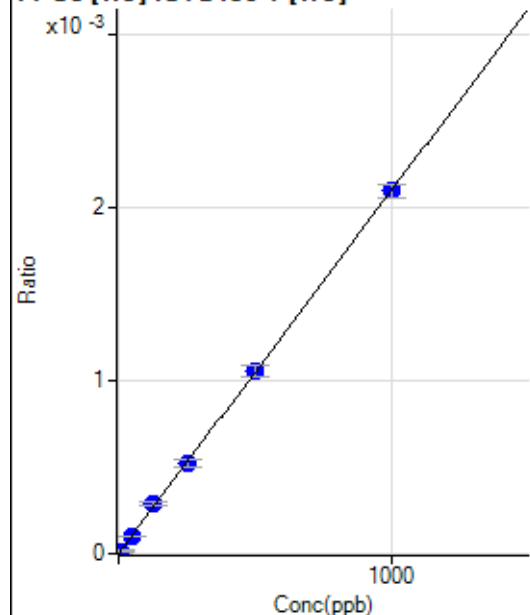
$$DL = 0.01541$$

$$BEC = 0.04571$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	7.273	31.11	0.0000	P	61.0
3	☐	50.000	46.892	191.12	0.0001	P	8.6
4	☐	125.000	136.000	545.57	0.0003	P	5.7
5	☐	250.000	249.195	981.16	0.0005	P	8.2
6	☐	500.000	500.302	1939.04	0.0010	P	6.2
7	☐	1000.000	998.819	3935.03	0.0021	P	3.6
8	☐			2.22	0.0000	P	173.

$$y = 2.0957\text{E-}006 * x + 1.1574\text{E-}006$$

$$R = 0.9999$$

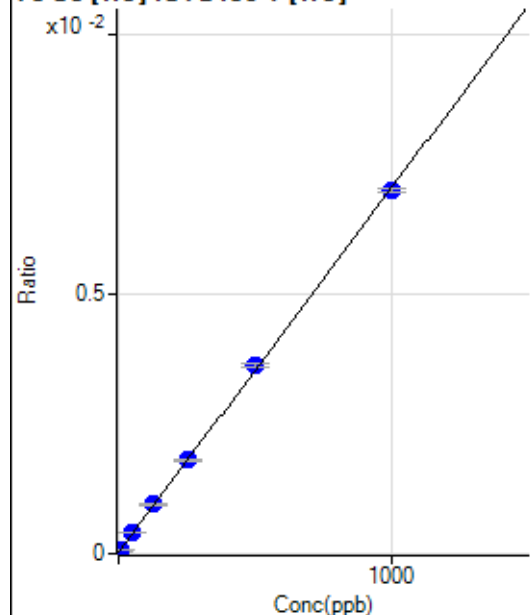
$$DL = 1.435$$

$$BEC = 0.5523$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	48.67	0.0000	P	20.1
2	☐	5.000	6.713	136.68	0.0001	P	5.0
3	☐	50.000	52.483	756.77	0.0004	P	0.3
4	☐	125.000	133.334	1832.31	0.0010	P	3.6
5	☐	250.000	253.867	3388.76	0.0018	P	1.4
6	☐	500.000	511.823	6685.26	0.0036	P	2.2
7	☐	1000.000	991.947	13125.42	0.0070	P	1.0
8	☐			53.68	0.0000	P	11.8

$$y = 7.0187\text{E-}006 * x + 2.5386\text{E-}005$$

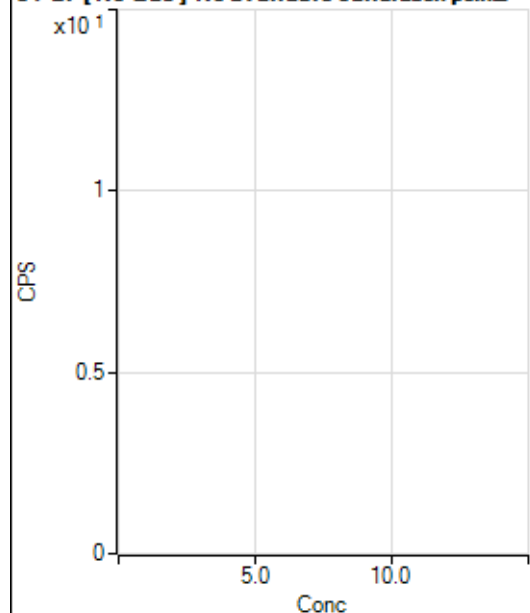
$$R = 0.9999$$

$$DL = 2.176$$

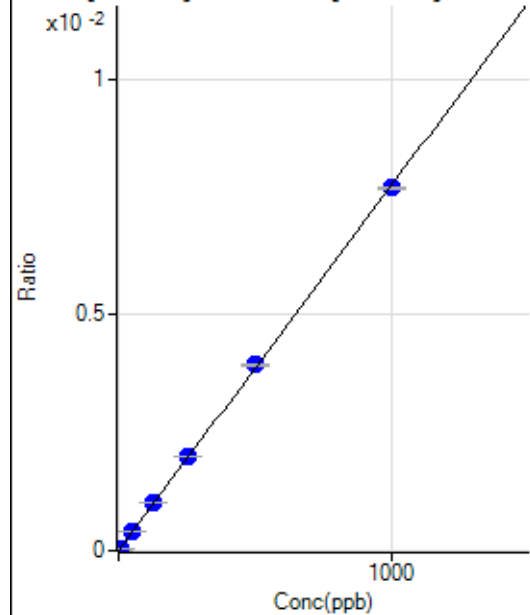
$$BEC = 3.617$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25101.68		P	5.5
2	☐			25235.39		P	1.2
3	☐			25288.85		P	2.9
4	☐			24302.82		P	2.4
5	☐			22895.65		P	1.6
6	☐			23557.36		P	1.3
7	☐			23661.09		P	5.6
8	☐			24383.09		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	60.44	0.0000	P	68.0
2	☐	5.000	5.089	745.63	0.0000	P	5.6
3	☐	50.000	51.738	7200.59	0.0004	P	1.0
4	☐	125.000	129.690	17822.10	0.0010	P	1.4
5	☐	250.000	257.409	35507.01	0.0020	P	1.3
6	☐	500.000	508.694	69105.55	0.0039	P	1.1
7	☐	1000.000	993.127	135340.02	0.0077	P	0.2
8	☐			121.78	0.0000	P	37.2

$$y = 7.7444E-006 * x + 3.4413E-006$$

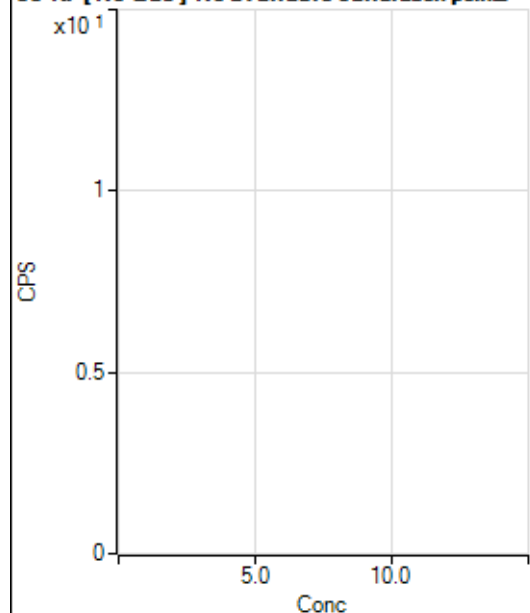
$$R = 0.9999$$

$$DL = 0.9062$$

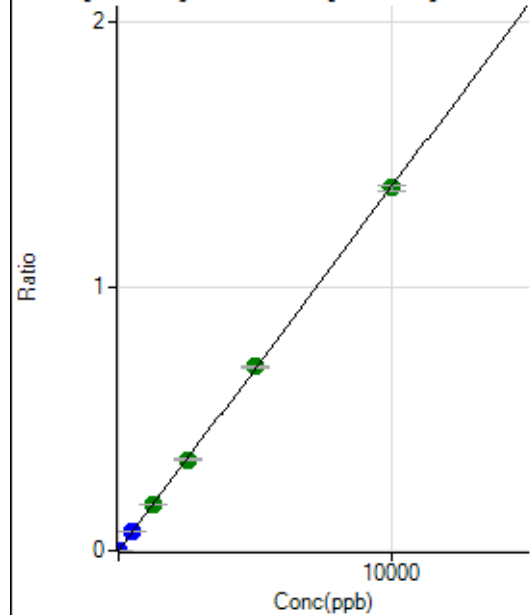
$$BEC = 0.4444$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			955.60		P	4.7
2	☐			1048.94		P	3.8
3	☐			1050.05		P	7.4
4	☐			1028.94		P	4.4
5	☐			1071.16		P	1.6
6	☐			970.05		P	5.5
7	☐			975.60		P	12.3
8	☐			1002.27		P	4.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1577.92	0.0001	P	9.3
2	☐	1.000	1.144	4311.88	0.0002	P	1.1
3	☐	500.000	520.549	1279836.26	0.0718	P	1.9
4	☐	1250.000	1257.860	3067271.47	0.1734	A	1.2
5	☐	2500.000	2509.386	6151002.57	0.3459	A	1.8
6	☐	5000.000	5053.161	12206807.31	0.6965	A	1.4
7	☐	10000.000	9969.063	24168518.77	1.3740	A	1.4
8	☐			8739.06	0.0005	P	4.0

$$y = 1.3782E-004 * x + 9.0125E-005$$

$$R = 1.0000$$

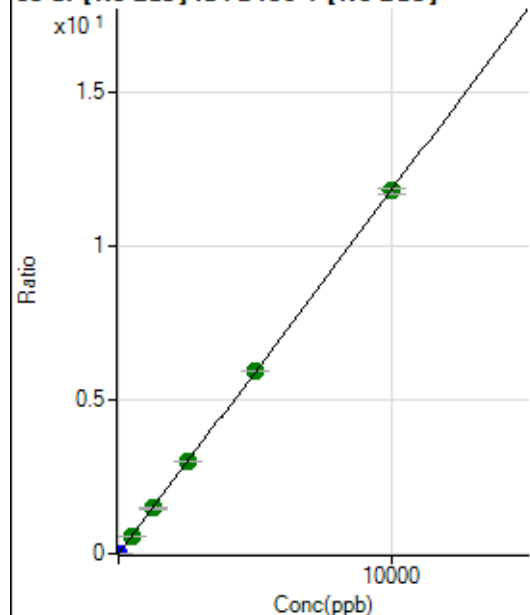
$$DL = 0.1819$$

$$BEC = 0.6539$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	366.68	0.0000	P	21.8
2	☐	1.000	1.116	23286.50	0.0013	P	0.7
3	☐	500.000	500.443	10525127.58	0.5907	A	0.8
4	☐	1250.000	1250.470	26100804.06	1.4760	A	1.9
5	☐	2500.000	2523.179	52956097.71	2.9782	A	0.6
6	☐	5000.000	5027.518	103999821.7	5.9341	A	0.8
7	☐	10000.000	9980.365	207212321.3	11.7801	A	1.3
8	☐			59742.26	0.0034	P	1.7

$$y = 0.0012 * x + 2.0953E-005$$

$$R = 1.0000$$

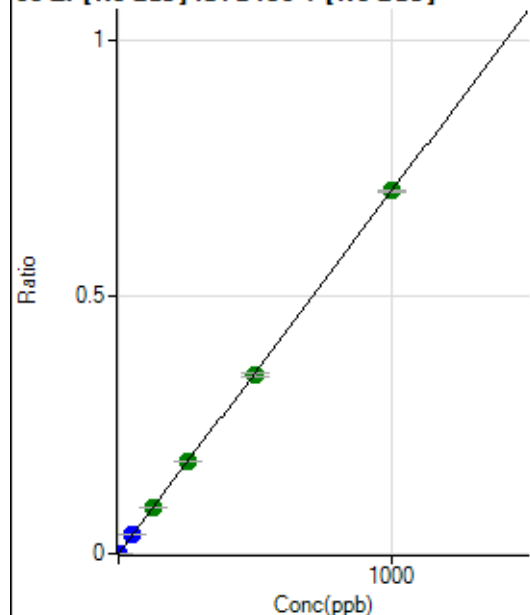
$$DL = 0.01163$$

$$BEC = 0.01775$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1136.19	0.0001	P	6.8
2	☐	1.000	1.088	14482.89	0.0008	P	0.1
3	☐	50.000	52.707	663552.51	0.0372	P	2.1
4	☐	125.000	127.190	1587669.43	0.0898	A	1.8
5	☐	250.000	253.925	3185843.23	0.1792	A	0.9
6	☐	500.000	495.679	6128765.67	0.3497	A	2.1
7	☐	1000.000	1000.770	12416798.54	0.7060	A	0.6
8	☐			3192.12	0.0002	P	4.0

$$y = 7.0534E-004 * x + 6.4934E-005$$

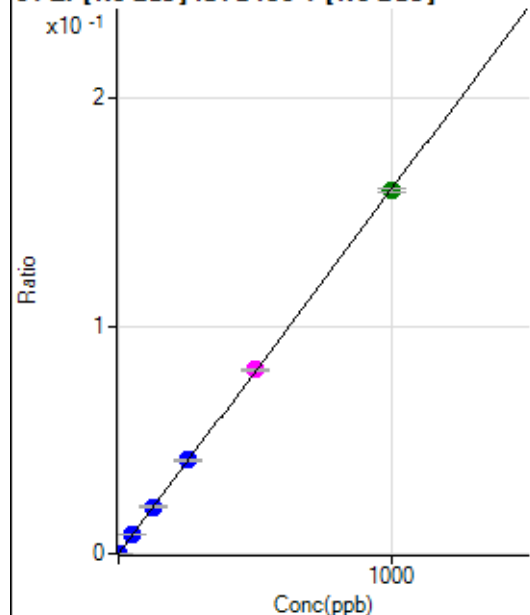
$$R = 1.0000$$

$$DL = 0.01866$$

$$BEC = 0.09206$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	175.01	0.0000	P	22.3
2	☐	1.000	1.104	3247.70	0.0002	P	4.3
3	☐	50.000	51.526	147035.24	0.0083	P	3.4
4	☐	125.000	128.977	365031.27	0.0206	P	2.4
5	☐	250.000	256.437	729585.95	0.0410	P	0.8
6	☐	500.000	504.032	1413290.04	0.0806	M	0.6
7	☐	1000.000	995.801	2802073.65	0.1593	A	1.2
8	☐			625.03	0.0000	P	1.8

$$y = 1.5997\text{E-}004 * x + 1.0004\text{E-}005$$

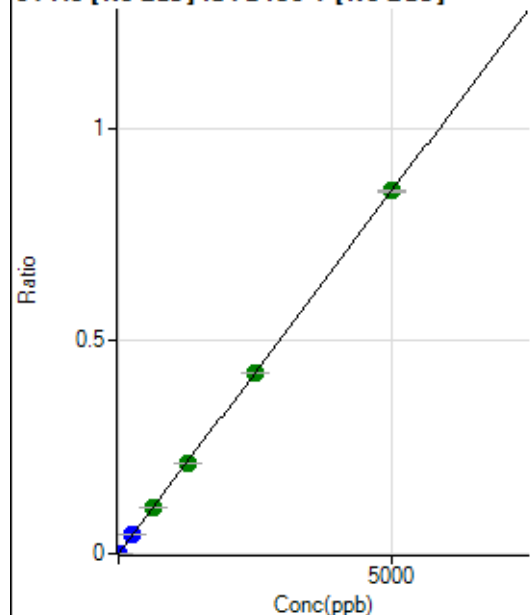
$$R = 1.0000$$

$$DL = 0.04186$$

$$BEC = 0.06254$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.57	0.0000	P	15.3
2	☐	5.000	5.585	16885.69	0.0010	P	1.0
3	☐	250.000	262.821	797996.08	0.0448	P	0.7
4	☐	625.000	634.023	1910076.82	0.1080	A	2.8
5	☐	1250.000	1246.820	3776463.15	0.2124	A	1.7
6	☐	2500.000	2490.923	7436417.18	0.4243	A	0.8
7	☐	5000.000	5003.564	14990394.95	0.8523	A	0.8
8	☐			3997.89	0.0002	P	4.8

$$y = 1.7033\text{E-}004 * x + 1.8868\text{E-}005$$

$$R = 1.0000$$

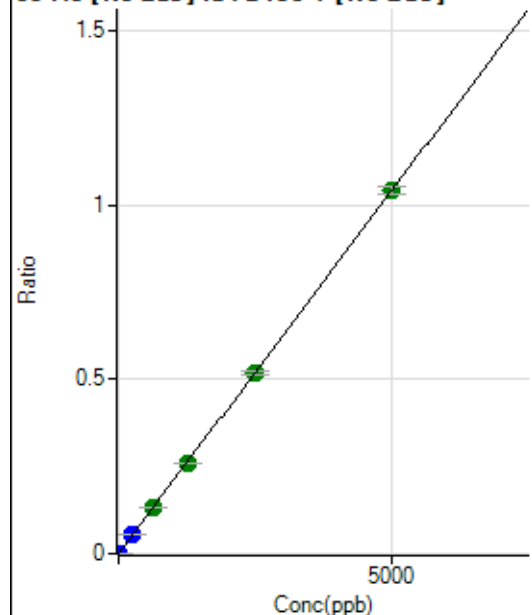
$$DL = 0.05071$$

$$BEC = 0.1108$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	14.3
2	☐	5.000	5.602	20312.45	0.0012	P	0.8
3	☐	250.000	261.172	967791.02	0.0543	P	1.8
4	☐	625.000	634.855	2334834.69	0.1320	A	1.9
5	☐	1250.000	1244.026	4600479.66	0.2587	A	0.5
6	☐	2500.000	2498.036	9105461.14	0.5195	A	1.8
7	☐	5000.000	5000.685	18291969.51	1.0400	A	2.2
8	☐			4617.57	0.0003	P	6.0

$$y = 2.0797\text{E-}004 * x + 2.0647\text{E-}006$$

$$R = 1.0000$$

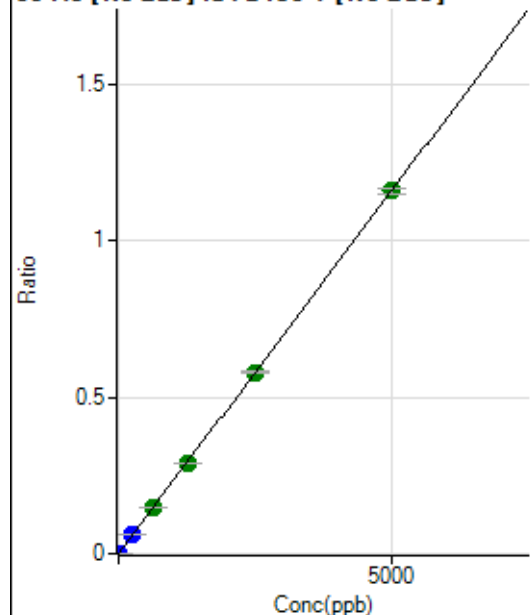
$$DL = 0.004263$$

$$BEC = 0.009928$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.12	0.0000	P	23.8
2	☐	5.000	5.571	22613.36	0.0013	P	3.1
3	☐	250.000	260.419	1075748.94	0.0604	P	1.9
4	☐	625.000	640.997	2627874.75	0.1486	A	2.1
5	☐	1250.000	1245.461	5133896.64	0.2887	A	1.5
6	☐	2500.000	2496.549	10143305.17	0.5788	A	0.9
7	☐	5000.000	5000.339	20388742.12	1.1592	A	1.3
8	☐			13707.13	0.0008	P	2.8

$$y = 2.3182\text{E-}004 * x + 7.7857\text{E-}006$$

$$R = 1.0000$$

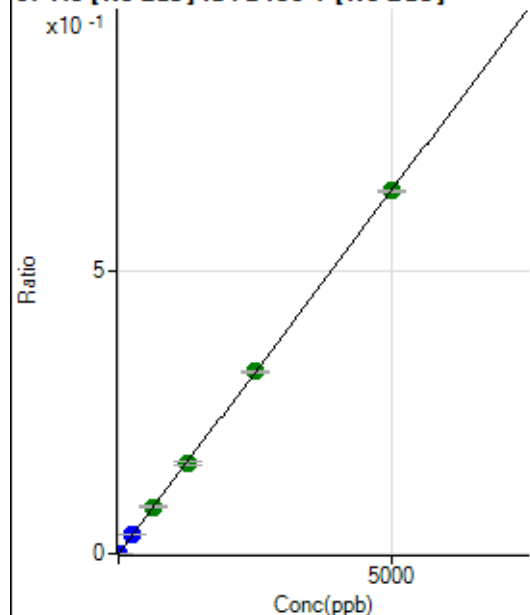
$$DL = 0.02397$$

$$BEC = 0.03359$$

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	30.56	0.0000	P	55.9
2	☐	5.000	5.426	12141.76	0.0007	P	6.2
3	☐	250.000	264.846	605300.40	0.0340	P	1.4
4	☐	625.000	641.402	1454831.16	0.0823	A	3.4
5	☐	1250.000	1240.856	2829917.21	0.1592	A	3.2
6	☐	2500.000	2508.757	5639752.51	0.3218	A	1.2
7	☐	5000.000	4995.115	11269341.40	0.6407	A	0.4
8	☐			2769.81	0.0002	P	1.6

$$y = 1.2826\text{E-}004 * x + 1.7413\text{E-}006$$

$$R = 1.0000$$

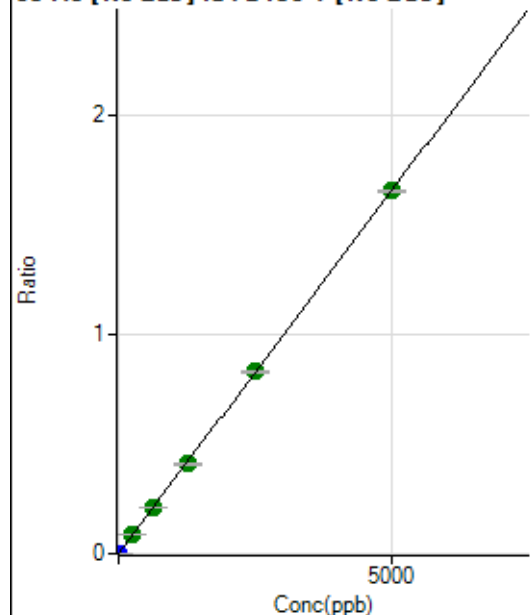
$$DL = 0.02277$$

$$BEC = 0.01358$$

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	52.78	0.0000	P	10.1
2	☐	5.000	5.510	31814.92	0.0018	P	1.8
3	☐	250.000	254.123	1499830.26	0.0842	A	1.4
4	☐	625.000	635.937	3724912.89	0.2106	A	3.5
5	☐	1250.000	1234.713	7271953.03	0.4090	A	2.7
6	☐	2500.000	2505.396	14544582.79	0.8299	A	0.7
7	☐	5000.000	4999.550	29126922.18	1.6560	A	0.7
8	☐			6346.06	0.0004	P	2.9

$$y = 3.3123\text{E-}004 * x + 3.0171\text{E-}006$$

$$R = 1.0000$$

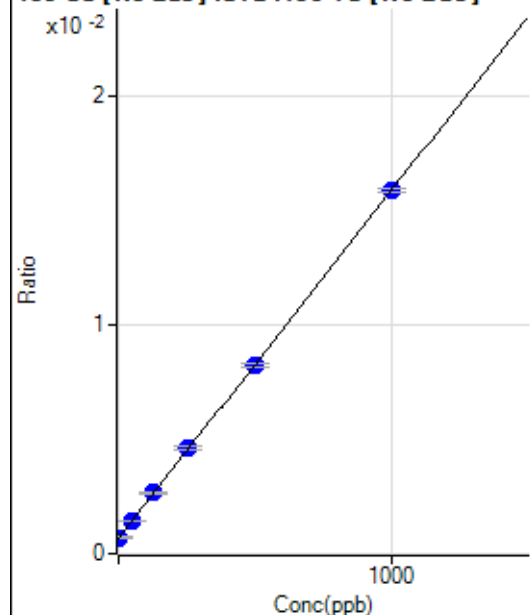
$$DL = 0.002756$$

$$BEC = 0.009109$$

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	8010.90	0.0007	P	4.6
2	☐	1.000	1.091	8327.77	0.0007	P	6.5
3	☐	50.000	50.702	17569.96	0.0014	P	0.7
4	☐	125.000	129.429	32380.31	0.0026	P	1.6
5	☐	250.000	260.799	56985.23	0.0046	P	3.1
6	☐	500.000	497.047	102730.32	0.0082	P	1.6
7	☐	1000.000	998.188	195625.84	0.0158	P	1.1
8	☐			7404.97	0.0006	P	6.3

$$y = 1.5192\text{E-}005 * x + 6.7969\text{E-}004$$

$$R = 0.9999$$

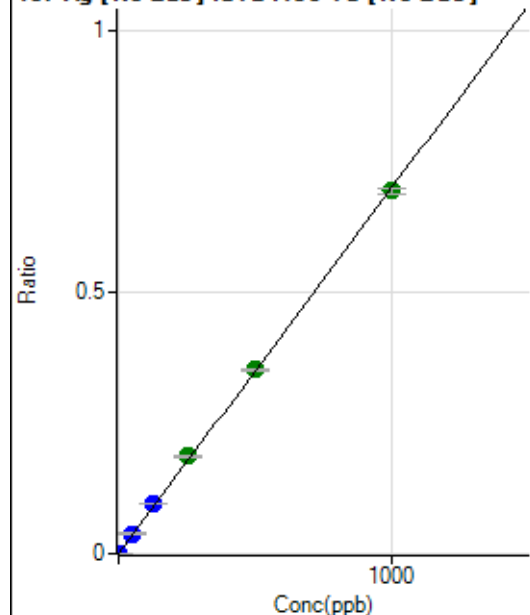
$$DL = 6.197$$

$$BEC = 44.74$$

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	80.56	0.0000	P	48.3
2	☐	1.000	1.087	9153.31	0.0008	P	4.0
3	☐	50.000	54.955	464624.50	0.0383	P	1.7
4	☐	125.000	136.549	1165563.58	0.0953	P	1.2
5	☐	250.000	266.397	2281882.54	0.1858	A	1.4
6	☐	500.000	503.052	4379882.74	0.3509	A	0.9
7	☐	1000.000	992.683	8549843.77	0.6925	A	1.3
8	☐			2550.31	0.0002	P	14.1

$$y = 6.9757\text{E-}004 * x + 6.8264\text{E-}006$$

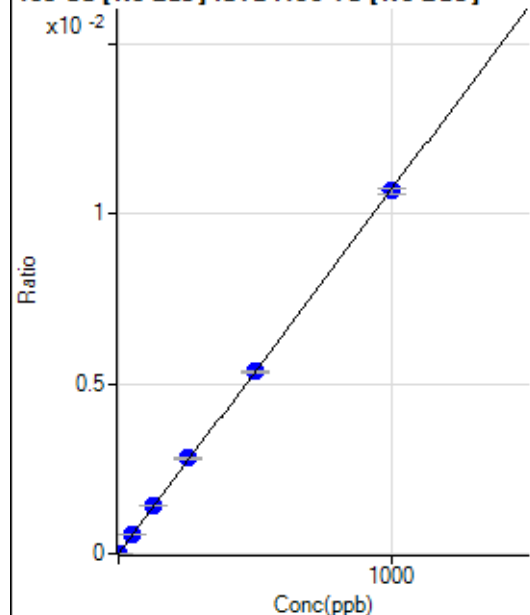
$$R = 0.9998$$

$$DL = 0.01419$$

$$BEC = 0.009786$$

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	48.61	0.0000	P	27.8
2	☐	1.000	1.411	230.56	0.0000	P	18.1
3	☐	50.000	52.475	6862.90	0.0006	P	3.6
4	☐	125.000	131.745	17329.11	0.0014	P	2.5
5	☐	250.000	261.911	34509.84	0.0028	P	2.5
6	☐	500.000	500.113	66942.24	0.0054	P	1.1
7	☐	1000.000	995.999	131824.64	0.0107	P	1.5
8	☐			148.61	0.0000	P	10.3

$$y = 1.0716\text{E-}005 * x + 4.1334\text{E-}006$$

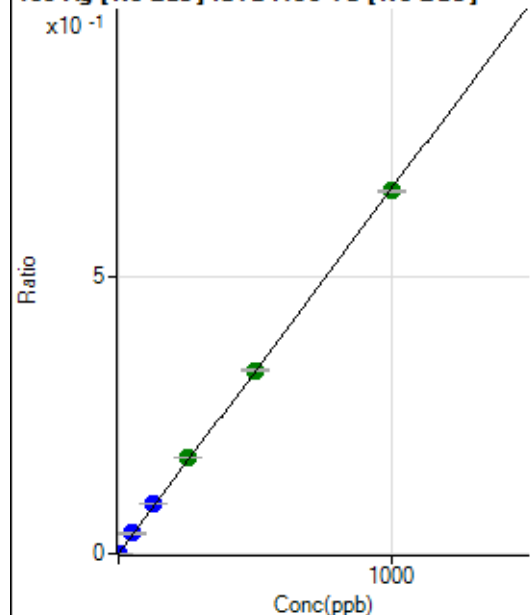
$$R = 0.9999$$

$$DL = 0.3214$$

$$BEC = 0.3857$$

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	36.11	0.0000	P	73.5
2	☐	1.000	1.099	8702.99	0.0007	P	5.8
3	☐	50.000	55.362	442342.14	0.0365	P	1.8
4	☐	125.000	136.053	1097535.74	0.0897	P	1.8
5	☐	250.000	262.892	2128096.68	0.1733	A	1.4
6	☐	500.000	501.551	4126976.53	0.3306	A	1.2
7	☐	1000.000	994.352	8094026.83	0.6555	A	0.9
8	☐			2525.31	0.0002	P	7.1

$$y = 6.5923\text{E-}004 * x + 3.0574\text{E-}006$$

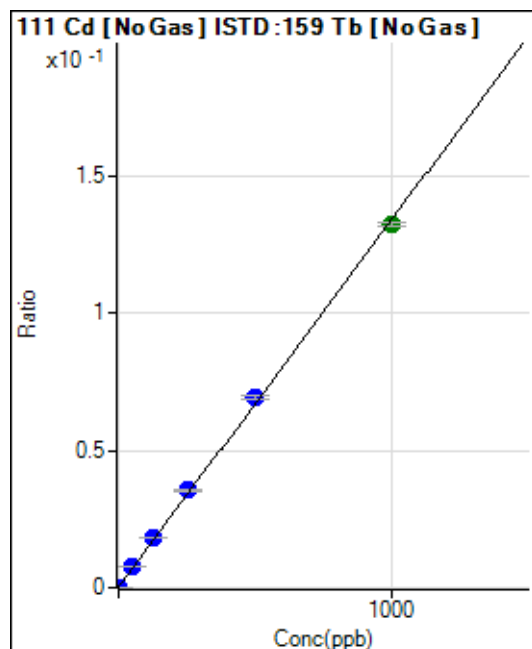
$$R = 0.9999$$

$$DL = 0.01023$$

$$BEC = 0.004638$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1616.77	0.0001	P	4.4
2	☐	1.000	1.116	3427.93	0.0003	P	6.1
3	☐	50.000	54.231	89644.75	0.0074	P	1.0
4	☐	125.000	134.185	221505.75	0.0181	P	1.5
5	☐	250.000	265.490	438138.39	0.0357	P	1.7
6	☐	500.000	516.484	864810.29	0.0693	P	1.3
7	☐	1000.000	986.526	1632529.57	0.1322	A	1.1
8	☐			1758.93	0.0001	P	6.8

$$y = 1.3388\text{E-}004 * x + 1.3717\text{E-}004$$

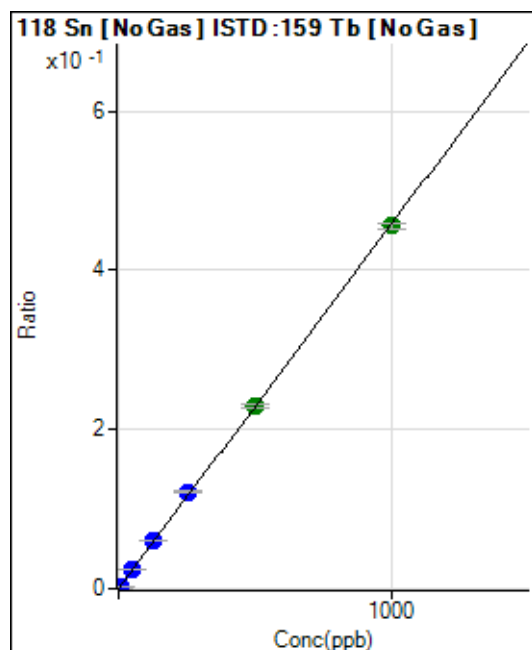
$$R = 0.9996$$

$$DL = 0.1344$$

$$BEC = 1.025$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1661.26	0.0001	P	6.4
2	☐	5.000	5.570	32208.12	0.0027	P	2.0
3	☐	50.000	53.523	298728.23	0.0247	P	1.4
4	☐	125.000	133.428	749458.71	0.0612	P	1.0
5	☐	250.000	265.594	1495285.10	0.1218	P	1.3
6	☐	500.000	499.808	2858744.29	0.2290	A	2.5
7	☐	1000.000	994.965	5628337.97	0.4558	A	1.2
8	☐			2953.19	0.0002	P	3.0

$$y = 4.5798\text{E-}004 * x + 1.4091\text{E-}004$$

$$R = 0.9999$$

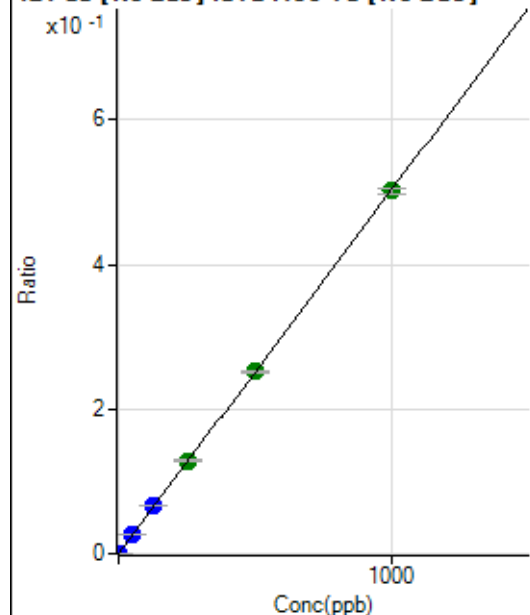
$$DL = 0.05946$$

$$BEC = 0.3077$$

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	58.33	0.0000	P	13.1
2	☐	2.000	2.230	13479.24	0.0011	P	4.9
3	☐	50.000	53.084	323587.47	0.0267	P	0.7
4	☐	125.000	131.446	809022.15	0.0661	P	0.8
5	☐	250.000	256.360	1583084.54	0.1289	A	2.3
6	☐	500.000	499.685	3136775.01	0.2513	A	0.8
7	☐	1000.000	997.607	6195191.98	0.5017	A	1.6
8	☐			5103.86	0.0004	P	3.4

$$y = 5.0294\text{E-}004 * x + 4.9418\text{E-}006$$

$$R = 1.0000$$

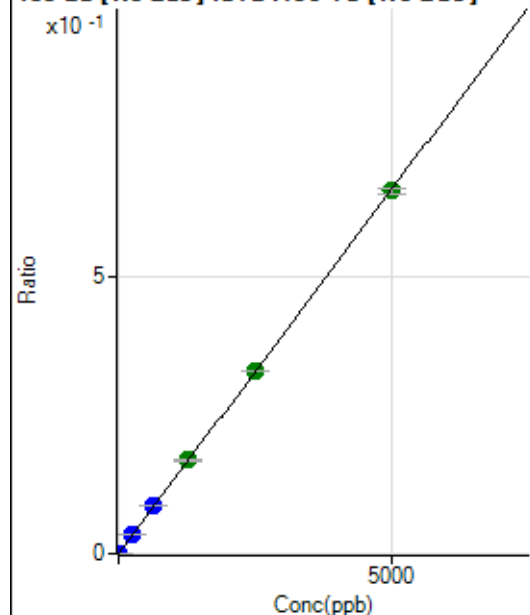
$$DL = 0.003873$$

$$BEC = 0.009826$$

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	97.23	0.0000	P	33.4
2	☐	10.000	11.030	17394.96	0.0015	P	2.7
3	☐	250.000	263.916	419214.99	0.0346	P	1.1
4	☐	625.000	654.322	1049445.49	0.0858	P	0.6
5	☐	1250.000	1284.214	2066602.35	0.1683	A	3.1
6	☐	2500.000	2508.668	4103760.64	0.3288	A	0.8
7	☐	5000.000	4982.749	8063695.58	0.6530	A	1.3
8	☐			2564.20	0.0002	P	1.6

$$y = 1.3106\text{E-}004 * x + 8.2204\text{E-}006$$

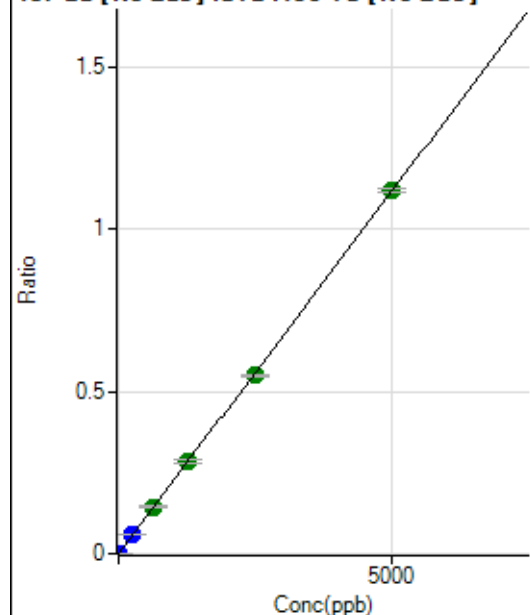
$$R = 1.0000$$

$$DL = 0.06286$$

$$BEC = 0.06272$$

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	147.23	0.0000	P	24.5
2	☐	10.000	11.312	30393.10	0.0025	P	1.3
3	☐	250.000	272.069	736735.16	0.0608	P	1.0
4	☐	625.000	644.008	1760766.14	0.1439	A	2.1
5	☐	1250.000	1280.818	3513494.13	0.2862	A	3.6
6	☐	2500.000	2456.863	6851545.73	0.5489	A	1.3
7	☐	5000.000	5010.382	13821785.20	1.1194	A	1.2
8	☐			4562.01	0.0004	P	12.2

$$y = 2.2342E-004 * x + 1.2507E-005$$

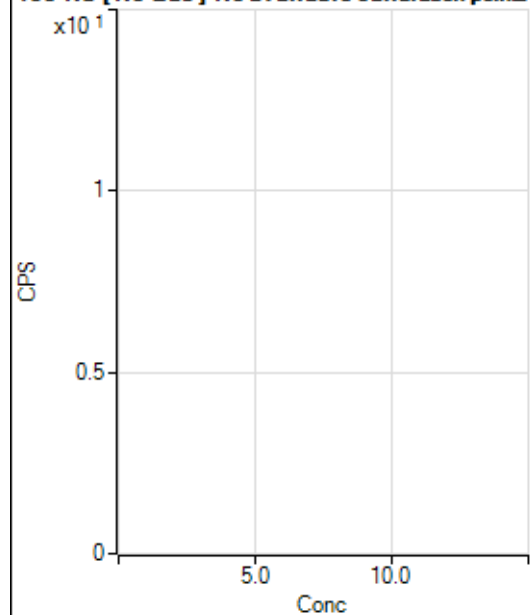
$$R = 0.9999$$

$$DL = 0.04123$$

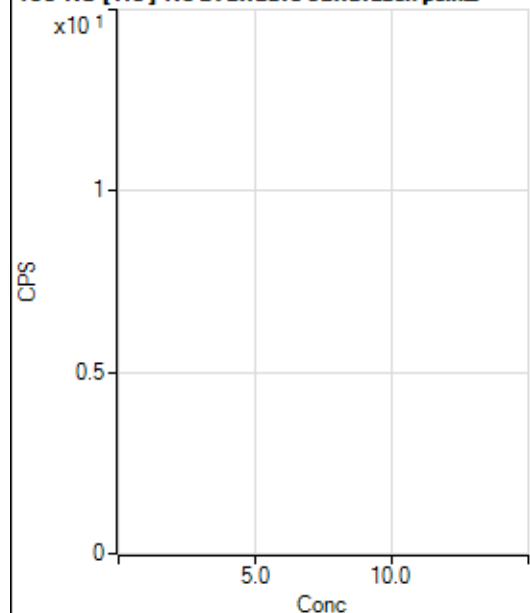
$$BEC = 0.05598$$

Weight: <None>

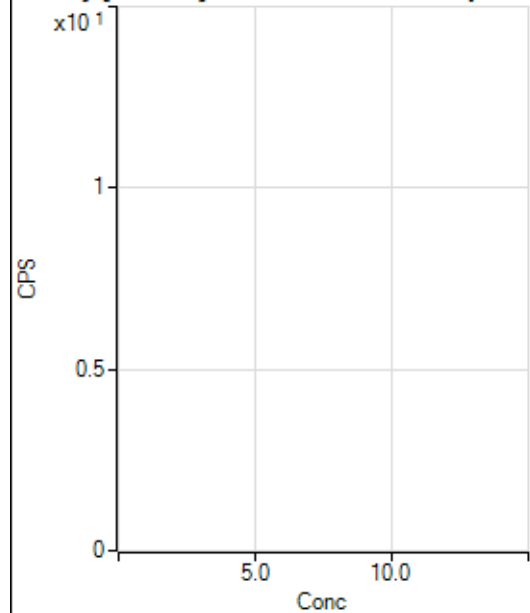
Min Conc: 0

150 Nd [No Gas] No available calibration points

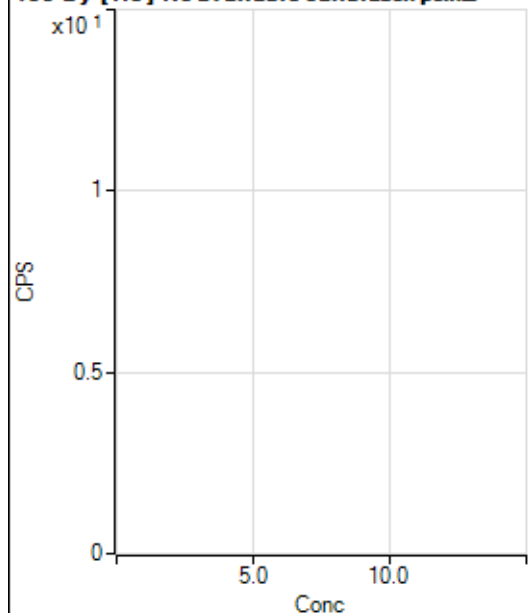
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13.33		P	173.
2	☐			8.89		P	43.3
3	☐			46.67		P	62.3
4	☐			75.56		P	48.6
5	☐			295.57		P	38.4
6	☐			271.12		P	23.2
7	☐			573.36		P	20.3
8	☐			33.34		P	34.6

150 Nd [He] No available calibration points

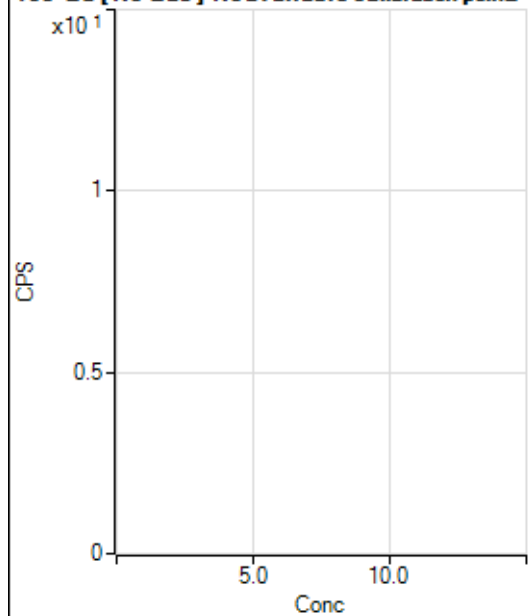
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			2.22		P	173.
4	☐			5.56		P	34.7
5	☐			71.11		P	16.5
6	☐			25.55		P	27.1
7	☐			28.89		P	17.6
8	☐			15.56		P	32.7

156 Dy [No Gas] No available calibration points

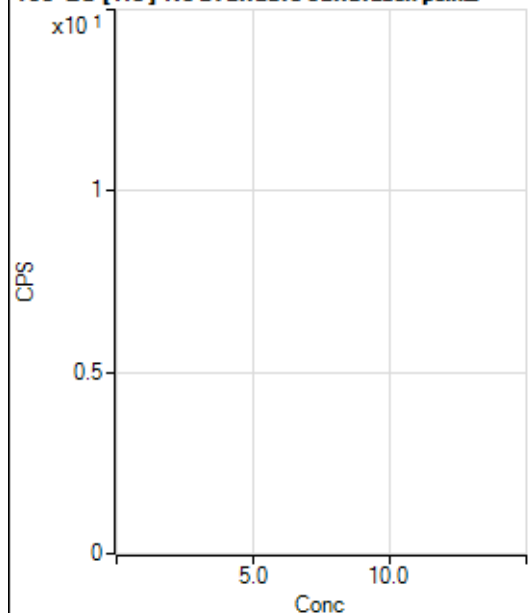
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			2.78		P	173.
3	☐			13.89		P	69.3
4	☐			72.23		P	13.3
5	☐			202.79		P	22.6
6	☐			294.45		P	10.7
7	☐			527.80		P	21.0
8	☐			1808.50		P	0.9

156 Dy [He] No available calibration points

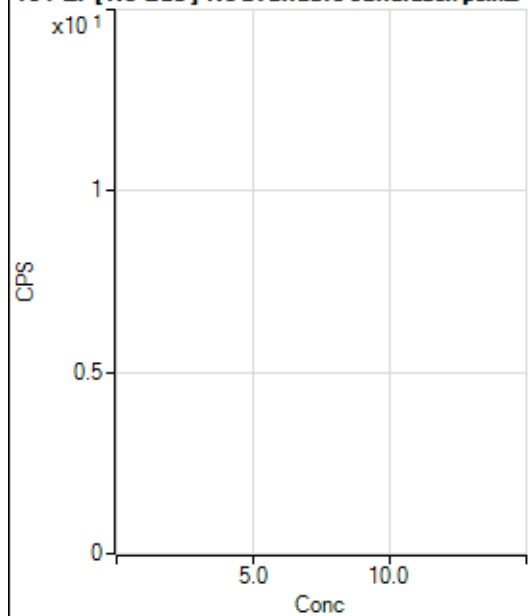
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			3.33		P	100.
3	☐			13.33		P	25.0
4	☐			36.66		P	41.7
5	☐			91.11		P	20.8
6	☐			98.89		P	12.8
7	☐			213.34		P	13.6
8	☐			921.15		P	2.1

160 Gd [No Gas] Noavailable calibration poin_

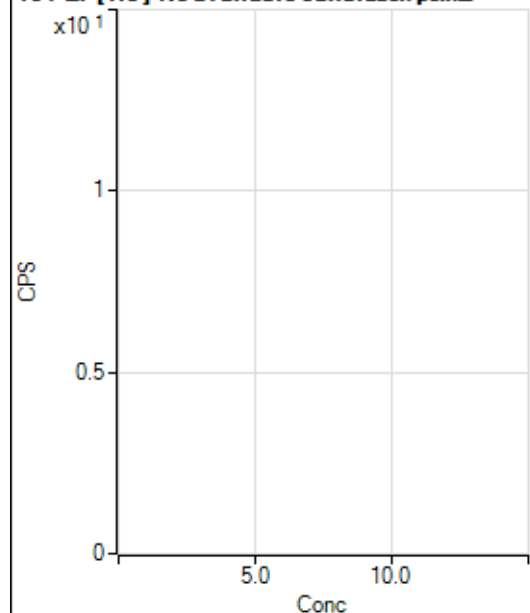
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			252.79		P	8.3
2	☐			186.12		P	13.7
3	☐			191.68		P	8.7
4	☐			275.01		P	5.2
5	☐			372.24		P	14.9
6	☐			366.68		P	14.2
7	☐			633.36		P	2.3
8	☐			2161.35		P	9.1

160 Gd [He] No available calibration points

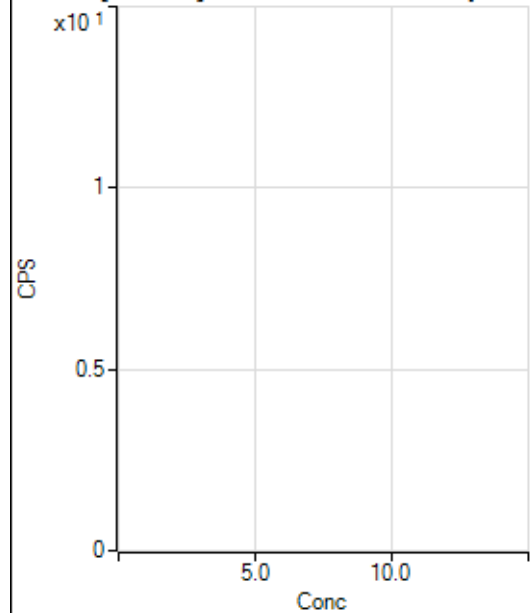
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	40.9
2	☐			80.00		P	11.0
3	☐			72.22		P	13.3
4	☐			81.11		P	16.6
5	☐			161.11		P	5.2
6	☐			167.78		P	7.0
7	☐			272.23		P	15.5
8	☐			1098.95		P	7.6

164 Er [No Gas] No available calibration points

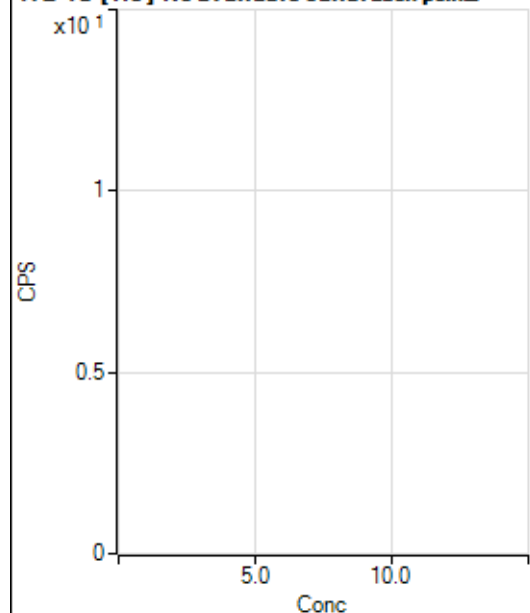
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	34.6
2	☐			100.00		P	38.2
3	☐			75.00		P	11.1
4	☐			111.11		P	30.3
5	☐			183.34		P	7.9
6	☐			127.78		P	24.7
7	☐			127.78		P	13.6
8	☐			377.79		P	3.4

164 Er [He] No available calibration points

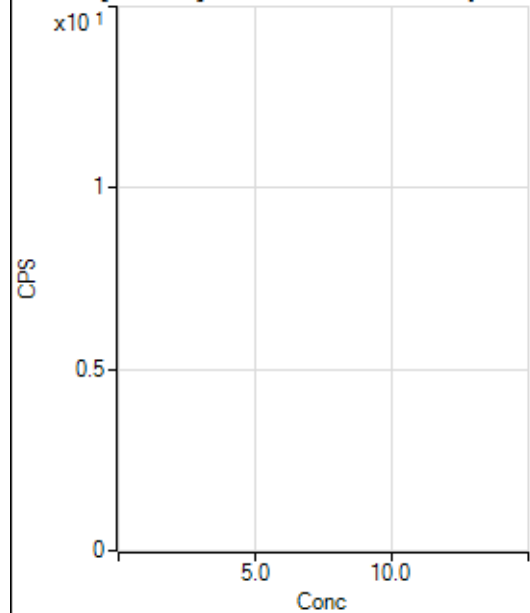
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	12.0
2	☐			32.22		P	12.0
3	☐			33.33		P	40.0
4	☐			45.55		P	15.2
5	☐			90.00		P	14.8
6	☐			65.56		P	12.8
7	☐			66.67		P	21.8
8	☐			122.23		P	9.6

172 Yb [No Gas] No available calibration points

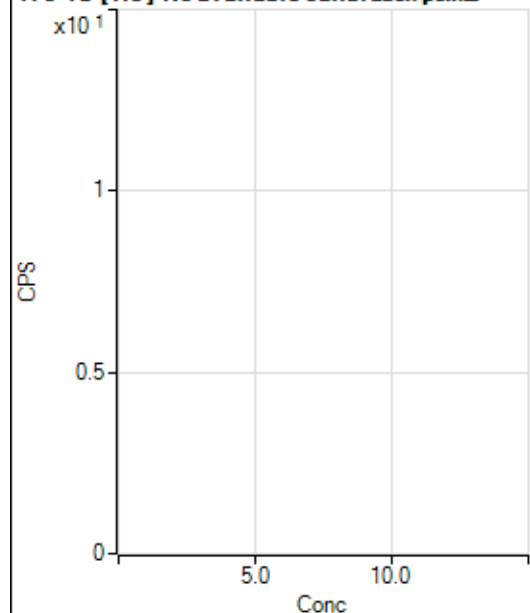
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	12.4
2	☐			27.78		P	17.3
3	☐			22.22		P	78.1
4	☐			41.67		P	40.0
5	☐			86.11		P	20.1
6	☐			72.22		P	48.0
7	☐			55.56		P	34.6
8	☐			100.00		P	16.7

172 Yb [He] No available calibration points

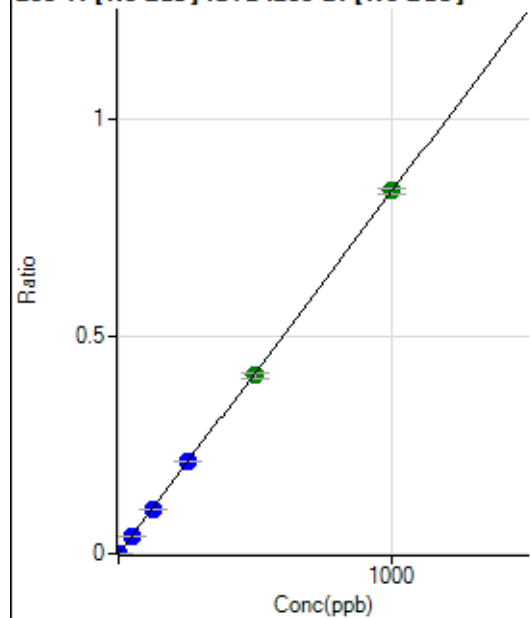
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.52		P	75.5
2	☐			14.82		P	21.7
3	☐			16.67		P	57.7
4	☐			24.07		P	48.0
5	☐			31.48		P	53.9
6	☐			12.96		P	65.4
7	☐			29.63		P	75.8
8	☐			46.29		P	48.5

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2883.74		P	4.8
2	☐			3080.99		P	5.8
3	☐			2905.96		P	7.5
4	☐			2703.13		P	6.9
5	☐			2622.55		P	8.6
6	☐			2683.69		P	5.0
7	☐			2714.24		P	3.5
8	☐			2439.18		P	7.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2492.87		P	7.2
2	☐			1985.37		P	7.2
3	☐			1831.65		P	3.4
4	☐			1764.97		P	8.6
5	☐			1711.26		P	8.9
6	☐			1690.89		P	1.2
7	☐			1505.67		P	0.7
8	☐			1559.38		P	6.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	769.49	0.0001	P	9.5
2	☐	1.000	1.065	6902.01	0.0010	P	4.6
3	☐	50.000	49.692	292634.93	0.0415	P	0.8
4	☐	125.000	121.971	729866.39	0.1018	P	1.5
5	☐	250.000	254.234	1505630.12	0.2120	P	1.2
6	☐	500.000	493.351	2945023.91	0.4113	A	3.4
7	☐	1000.000	1002.660	5838567.36	0.8358	A	1.6
8	☐			1611.26	0.0003	P	2.9

$$y = 8.3351E-004 * x + 1.1297E-004$$

$$R = 1.0000$$

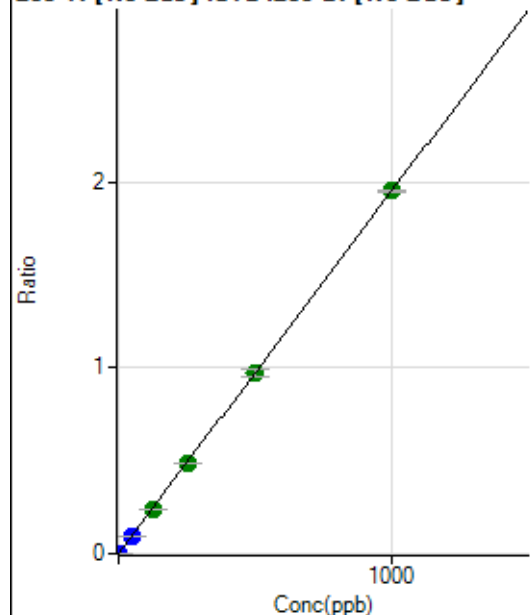
$$DL = 0.03852$$

$$BEC = 0.1355$$

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	2086.34	0.0003	P	1.7
2	☐	1.000	1.055	16271.74	0.0024	P	1.6
3	☐	50.000	50.037	688961.60	0.0978	P	0.2
4	☐	125.000	121.326	1697215.64	0.2367	A	1.4
5	☐	250.000	250.803	3471614.57	0.4889	A	0.8
6	☐	500.000	498.041	6948140.17	0.9705	A	4.3
7	☐	1000.000	1001.236	13629131.56	1.9508	A	0.6
8	☐			3536.70	0.0006	P	3.3

$$y = 0.0019 * x + 3.0645E-004$$

$$R = 1.0000$$

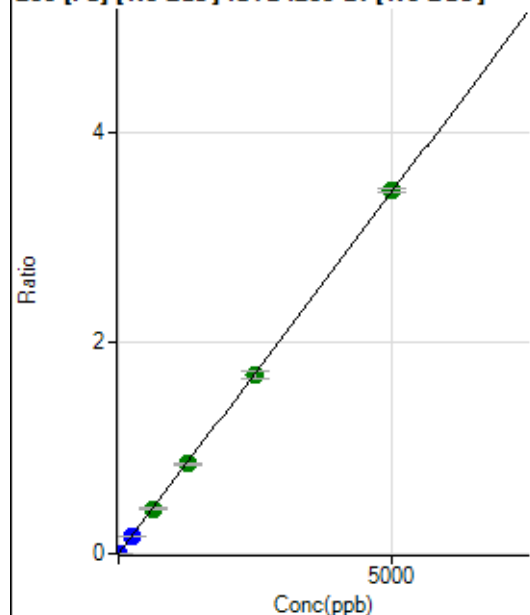
$$DL = 0.007834$$

$$BEC = 0.1573$$

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	590.77	0.0001	P	11.9
2	☐	1.000	1.018	5408.63	0.0008	P	0.8
3	☐	250.000	246.608	1192031.62	0.1692	P	0.3
4	☐	625.000	621.185	3055105.16	0.4260	A	2.2
5	☐	1250.000	1241.551	6045740.59	0.8514	A	1.1
6	☐	2500.000	2465.797	12105073.42	1.6908	A	4.2
7	☐	5000.000	5019.860	24046014.89	3.4420	A	1.2
8	☐			21299.23	0.0033	P	3.0

$$y = 6.8567E-004 * x + 8.6784E-005$$

$$R = 1.0000$$

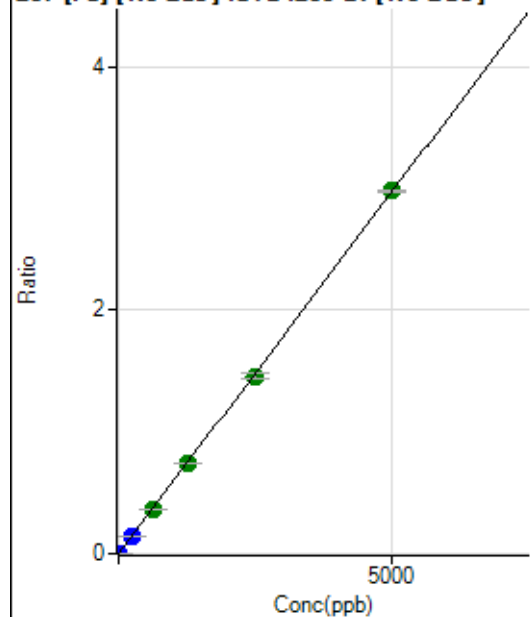
$$DL = 0.04501$$

$$BEC = 0.1266$$

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	485.21	0.0001	P	15.5
2	☐	1.000	1.068	4854.70	0.0007	P	2.6
3	☐	250.000	248.345	1037813.77	0.1473	P	1.6
4	☐	625.000	618.227	2628890.42	0.3666	A	0.8
5	☐	1250.000	1253.451	5277108.74	0.7431	A	0.5
6	☐	2500.000	2455.125	10421487.62	1.4555	A	2.9
7	☐	5000.000	5022.504	20800325.69	2.9775	A	0.6
8	☐			18437.39	0.0029	P	1.9

$$y = 5.9281\text{E-}004 * x + 7.1311\text{E-}005$$

$$R = 0.9999$$

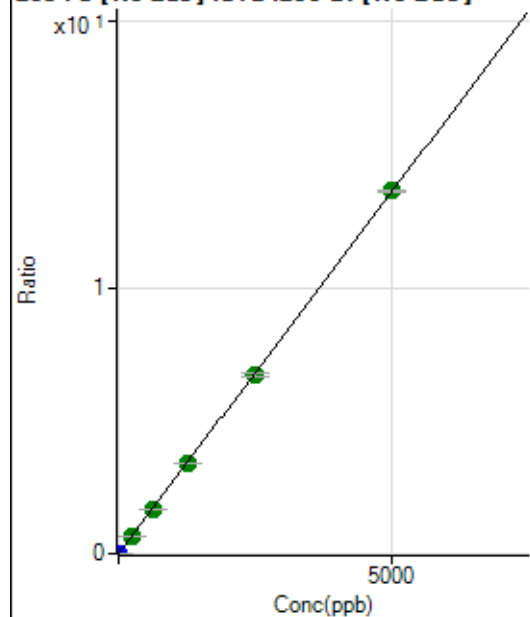
$$DL = 0.05606$$

$$BEC = 0.1203$$

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	2351.99	0.0003	P	7.8
2	☐	1.000	1.055	22156.02	0.0032	P	1.1
3	☐	250.000	249.607	4785457.80	0.6792	A	0.9
4	☐	625.000	616.066	12018829.11	1.6758	A	1.2
5	☐	1250.000	1247.870	24101992.20	3.3941	A	0.4
6	☐	2500.000	2468.005	48062635.91	6.7124	A	2.8
7	☐	5000.000	5017.666	95338024.12	13.6466	A	0.6
8	☐			83932.68	0.0131	P	1.9

$$y = 0.0027 * x + 3.4558\text{E-}004$$

$$R = 1.0000$$

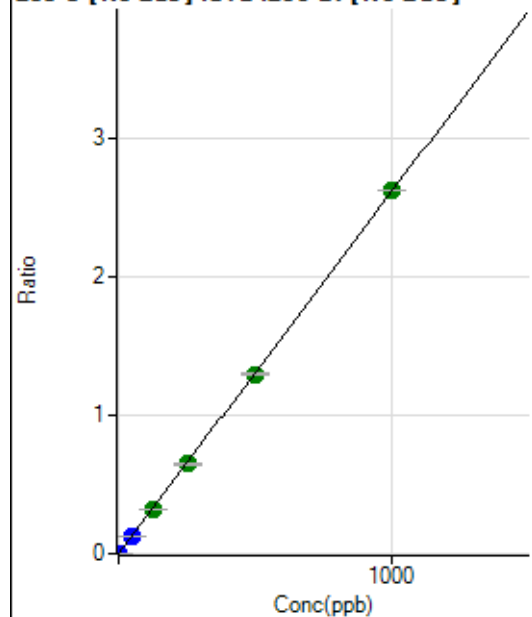
$$DL = 0.02967$$

$$BEC = 0.1271$$

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	8.33	0.0000	P	100.
2	☐	1.000	1.024	18461.12	0.0027	P	2.3
3	☐	50.000	49.189	906167.24	0.1286	P	1.6
4	☐	125.000	121.938	2286569.58	0.3188	A	0.7
5	☐	250.000	247.760	4599660.04	0.6478	A	1.4
6	☐	500.000	495.777	9282572.86	1.2962	A	1.5
7	☐	1000.000	1003.095	18322807.87	2.6226	A	0.1
8	☐			1727.95	0.0003	P	3.1

$$y = 0.0026 * x + 1.2293E-006$$

$$R = 1.0000$$

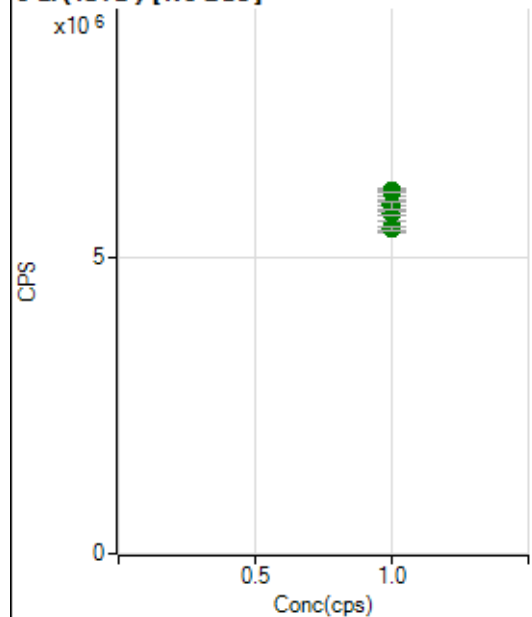
$$DL = 0.001411$$

$$BEC = 0.0004702$$

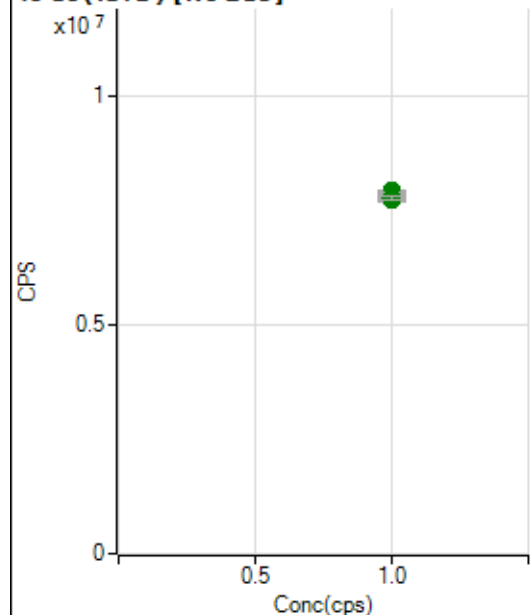
Weight: <None>

Min Conc: 0

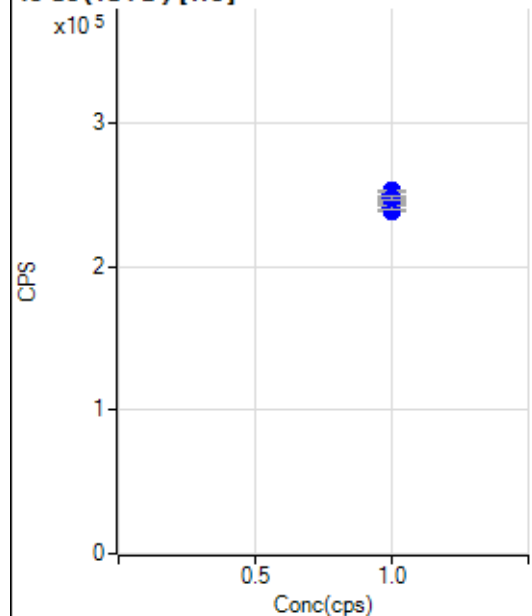
6 Li (ISTD) [No Gas]



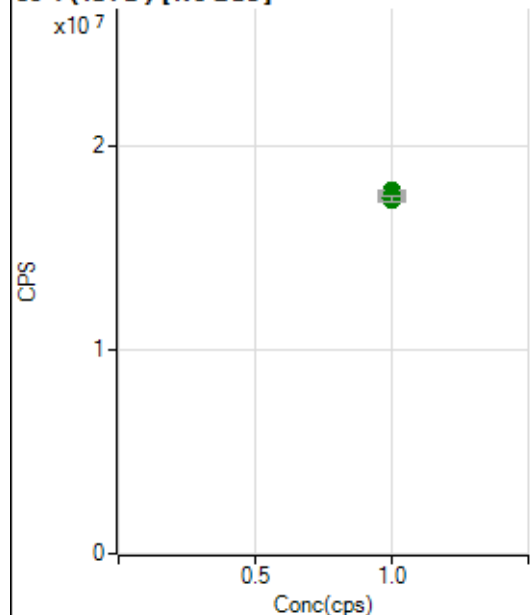
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5527786.05		A	3.2
2	☐	1.000		5485780.62		A	0.9
3	☐	1.000		5756741.46		A	0.9
4	☐	1.000		5916354.45		A	1.7
5	☐	1.000		6127167.45		A	1.2
6	☐	1.000		6102087.34		A	1.6
7	☐	1.000		6112022.72		A	0.1
8	☐	1.000		5882660.40		A	2.2

45 Sc (ISTD) [No Gas]

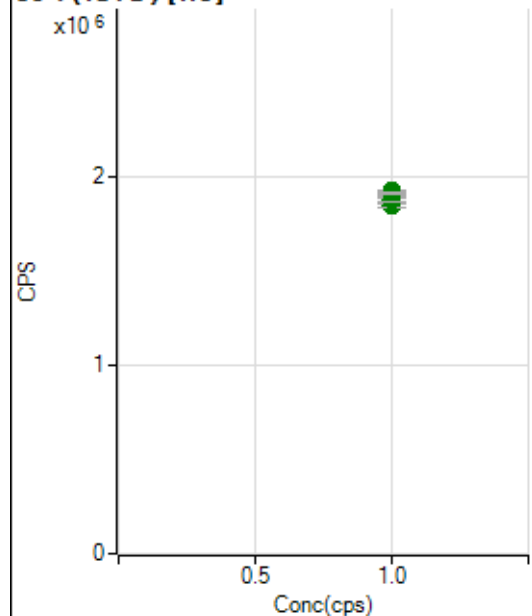
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7794270.09		A	0.6
2	☐	1.000		7872354.68		A	1.1
3	☐	1.000		7930851.41		A	0.3
4	☐	1.000		7862483.64		A	2.3
5	☐	1.000		7840631.48		A	0.7
6	☐	1.000		7824599.26		A	1.6
7	☐	1.000		7751249.19		A	1.4
8	☐	1.000		7779080.09		A	1.4

45 Sc (ISTD) [He]

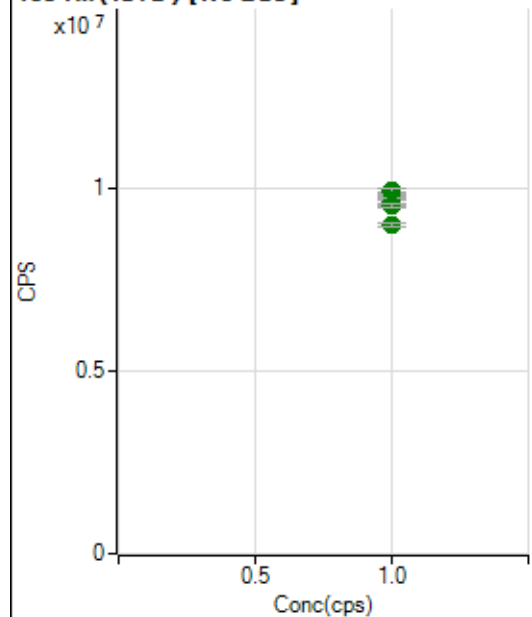
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		252323.82		P	0.1
2	☐	1.000		250400.41		P	0.7
3	☐	1.000		252546.40		P	0.4
4	☐	1.000		246562.48		P	0.9
5	☐	1.000		242988.16		P	0.9
6	☐	1.000		238843.45		P	0.2
7	☐	1.000		240646.55		P	1.4
8	☐	1.000		247726.38		P	0.8

89 Y (ISTD) [No Gas]

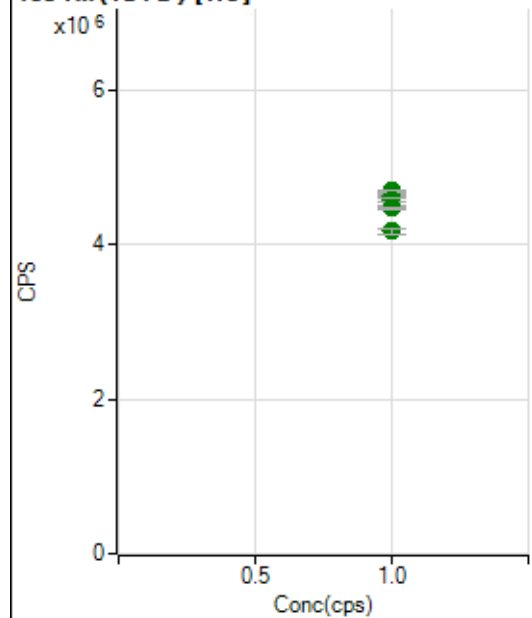
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17504438.63		A	1.0
2	☐	1.000		17404468.35		A	0.6
3	☐	1.000		17818423.21		A	0.6
4	☐	1.000		17684138.76		A	0.2
5	☐	1.000		17781367.65		A	0.3
6	☐	1.000		17525973.21		A	0.4
7	☐	1.000		17588976.13		A	0.9
8	☐	1.000		17443036.41		A	1.7

89 Y (ISTD) [He]

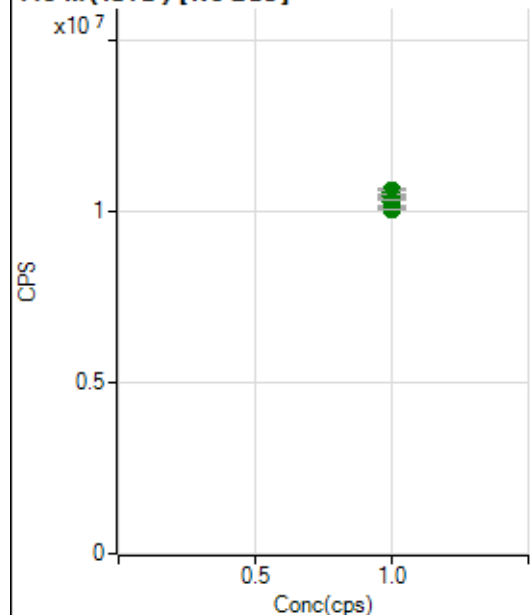
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1916894.19		A	0.1
2	☐	1.000		1885871.78		A	1.8
3	☐	1.000		1921936.36		A	0.5
4	☐	1.000		1906580.21		A	1.3
5	☐	1.000		1875198.93		A	1.4
6	☐	1.000		1848227.65		A	1.2
7	☐	1.000		1878580.34		A	1.6
8	☐	1.000		1914363.30		A	0.6

103 Rh (ISTD) [No Gas]

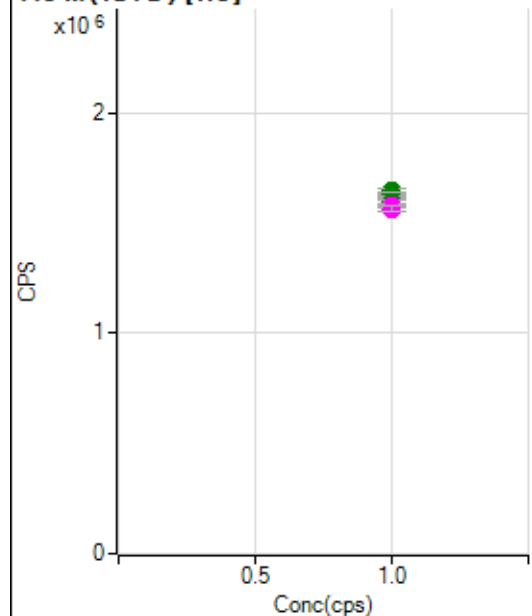
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9828513.59		A	1.4
2	☐	1.000		9923985.03		A	1.9
3	☐	1.000		9905340.41		A	1.5
4	☐	1.000		9901512.11		A	2.3
5	☐	1.000		9696768.01		A	0.8
6	☐	1.000		9646835.72		A	2.2
7	☐	1.000		9521411.67		A	0.8
8	☐	1.000		8989009.40		A	1.1

103 Rh (ISTD) [He]

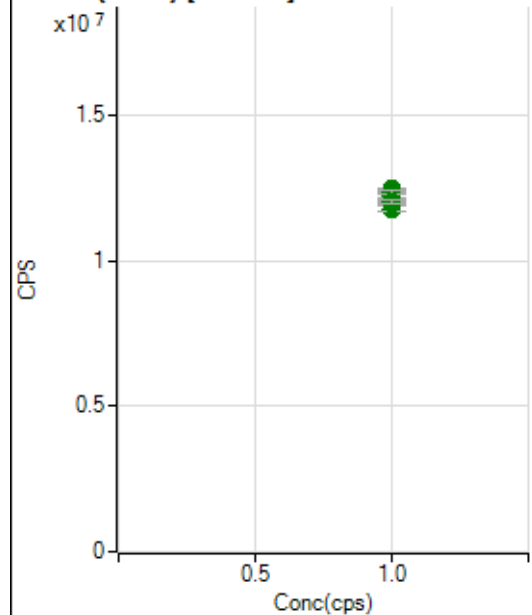
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4654952.71		A	1.0
2	☐	1.000		4635157.05		A	1.5
3	☐	1.000		4684672.43		A	0.6
4	☐	1.000		4701778.51		A	0.8
5	☐	1.000		4586551.74		A	0.8
6	☐	1.000		4488483.55		A	0.7
7	☐	1.000		4473530.25		A	0.8
8	☐	1.000		4182534.42		A	1.8

115 In (ISTD) [No Gas]

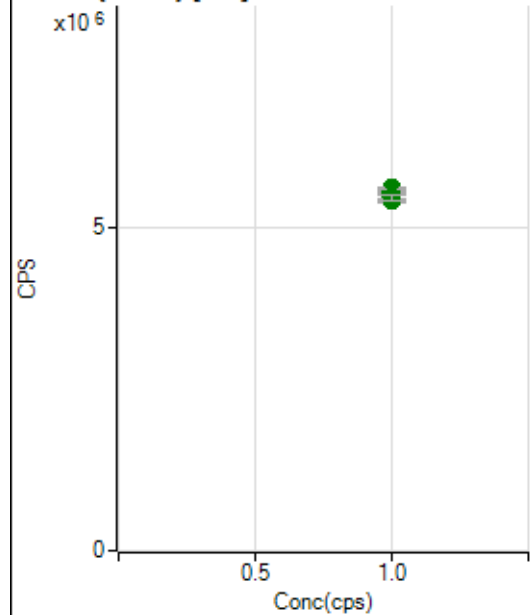
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10152953.78		A	0.8
2	☐	1.000		10522133.91		A	2.1
3	☐	1.000		10565102.60		A	1.1
4	☐	1.000		10618691.13		A	1.9
5	☐	1.000		10560605.98		A	1.8
6	☐	1.000		10465311.15		A	1.0
7	☐	1.000		10277853.08		A	1.6
8	☐	1.000		10067521.88		A	0.2

115 In (ISTD) [He]

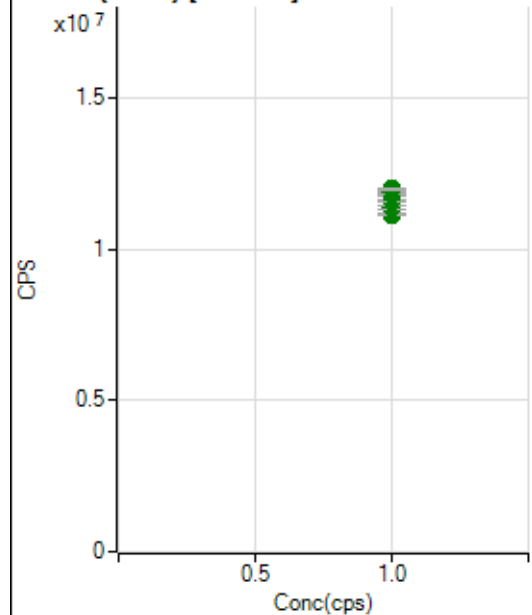
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1636260.96		A	0.4
2	☐	1.000		1619163.79		A	1.1
3	☐	1.000		1646338.93		A	1.8
4	☐	1.000		1629591.78		A	1.1
5	☐	1.000		1597007.71		A	0.9
6	☐	1.000		1561141.49		A	0.8
7	☐	1.000		1577024.44		M	1.0
8	☐	1.000		1564657.62		M	1.4

159 Tb (ISTD) [No Gas]

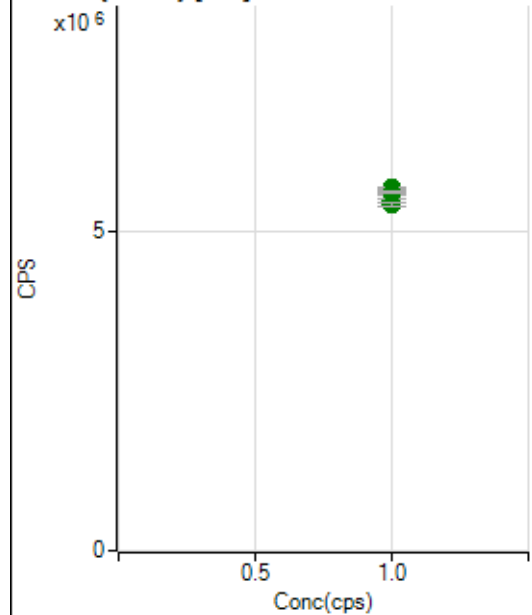
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11791784.55		A	1.6
2	☐	1.000		11967705.93		A	1.4
3	☐	1.000		12118549.82		A	1.4
4	☐	1.000		12236622.88		A	1.1
5	☐	1.000		12280388.43		A	1.4
6	☐	1.000		12481290.09		A	0.5
7	☐	1.000		12347375.79		A	0.9
8	☐	1.000		12057715.65		A	1.2

159 Tb (ISTD) [He]

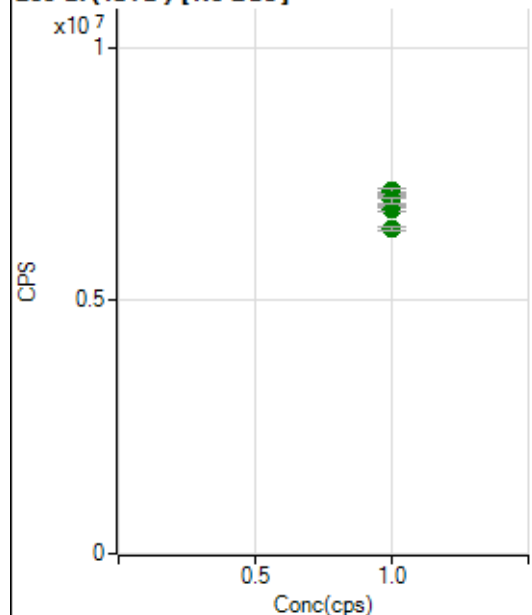
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5450870.02		A	1.9
2	☐	1.000		5432177.49		A	0.6
3	☐	1.000		5574498.04		A	0.9
4	☐	1.000		5552277.41		A	1.2
5	☐	1.000		5579686.72		A	1.0
6	☐	1.000		5626895.68		A	0.4
7	☐	1.000		5553743.32		A	1.4
8	☐	1.000		5485226.03		A	1.6

165 Ho (ISTD) [No Gas]

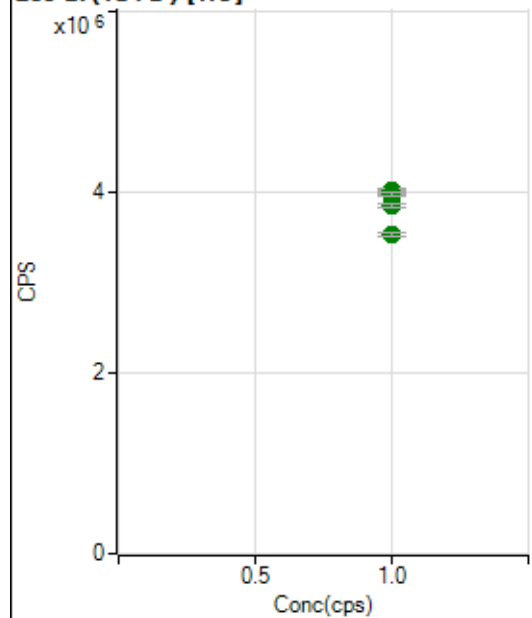
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11167059.37		A	0.6
2	☐	1.000		11392168.05		A	1.4
3	☐	1.000		11570821.44		A	1.5
4	☐	1.000		11659090.02		A	0.3
5	☐	1.000		11771439.33		A	2.7
6	☐	1.000		11819468.49		A	0.7
7	☐	1.000		11919644.97		A	1.5
8	☐	1.000		12011820.41		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5462879.81		A	0.9
2	☐	1.000		5414804.22		A	1.3
3	☐	1.000		5642546.93		A	0.3
4	☐	1.000		5628237.56		A	2.4
5	☐	1.000		5671695.12		A	0.5
6	☐	1.000		5595037.83		A	1.1
7	☐	1.000		5583764.08		A	1.2
8	☐	1.000		5596158.53		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6808560.45		A	0.8
2	☐	1.000		6893247.26		A	0.7
3	☐	1.000		7045923.37		A	0.5
4	☐	1.000		7171738.50		A	1.3
5	☐	1.000		7101071.56		A	0.8
6	☐	1.000		7162096.42		A	1.4
7	☐	1.000		6986318.79		A	1.5
8	☐	1.000		6421499.00		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4002167.26		A	0.7
2	☐	1.000		3992778.07		A	0.6
3	☐	1.000		3996431.26		A	0.5
4	☐	1.000		4019598.69		A	1.9
5	☐	1.000		3971213.83		A	0.6
6	☐	1.000		3983651.71		A	1.5
7	☐	1.000		3861960.19		A	1.2
8	☐	1.000		3537858.98		A	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8072021MS.b
Acq. Date-Time 2021-07-20 07:21:35
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		18379	183792.28			0.430	5.000
24		139975	1399750.23			1.226	5.000
25		19783	197831.65			0.399	5.000
26		23299	232985.62			0.457	5.000
59		30310	303099.14			0.629	5.000
113		13758	137583.55			0.866	5.000
115		42352	423521.88			2.325	5.000
206		17131	171313.15			0.789	5.000
207		14185	141847.63			0.852	5.000
208		35193	351929.95			0.766	5.000
220		0	4.70			12.129	

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

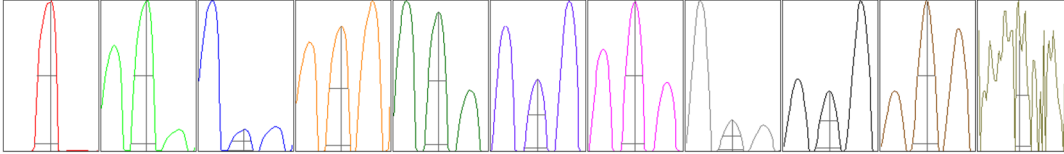
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	18305	18391	18295	18479	18426
24	142452	140799	139546	137970	139108
25	19911	19755	19696	19771	19783
26	23482	23215	23295	23257	23244
59	30627	30241	30175	30165	30342
113	13957	13764	13664	13668	13739
115	43676	43107	41937	41544	41497
206	17353	17023	17060	17055	17166
207	14390	14103	14159	14091	14181
208	35587	35114	34889	35052	35323

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	31627.76	9.00	8.90 - 9.10	
24	245474.01	23.95	23.90 - 24.10	
25	34490.49	24.95	24.90 - 25.10	
26	39512.25	25.95	25.90 - 26.10	
59	55945.26	58.95	58.90 - 59.10	
113	27023.06	113.00	112.90 - 113.10	
115	82903.73	115.00	114.90 - 115.10	
206	32327.75	206.00	205.90 - 206.10	
207	26871.74	207.00	206.90 - 207.10	
208	66947.06	208.00	207.90 - 208.10	
220	0.55	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.742	0.900	
24	0.61	0.783	0.900	
25	0.60	0.784	0.900	
26	0.62	0.783	0.900	
59	0.57	0.740	0.900	
113	0.54	0.724	0.900	
115	0.54	0.725	0.900	
206	0.56	0.798	0.900	
207	0.56	0.802	0.900	
208	0.55	0.816	0.900	
220	0.41	0.493		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 L/min Dilution Gas 0.40 L/min

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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	12.4 V	Deflect	16.2 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	130 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6551	65510.56			0.355	
89		28824	288243.70			0.996	
205		47271	472706.60			0.911	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6568	6531	6584	6534	6539
89	28442	28589	29015	29022	29053
205	47169	46600	47298	47595	47691

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	12.4 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	123	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V