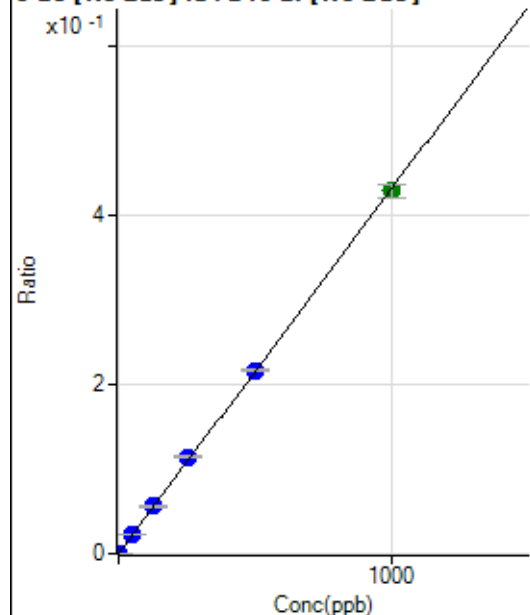


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8122823-MS.b\
 Analysis File: P8122823-MS.batch.bin
 DA Date-Time: 2023-12-29 00:16:52
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-12-28 08:47:02
2	005CALS.d	S02	2023-12-28 08:50:25
3	006CALS.d	S03	2023-12-28 08:53:51
4	007CALS.d	S04	2023-12-28 08:57:06
5	008CALS.d	S05	2023-12-28 09:00:14
6	009CALS.d	S06	2023-12-28 09:03:17
7	010CALS.d	S07	2023-12-28 09:06:20
8	011CALS.d	S08	2023-12-28 09:09:22

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.25	0.0000	P	30.4
2	☐	1.000	0.972	1863.64	0.0004	P	2.3
3	☐	50.000	53.545	97515.72	0.0231	P	1.9
4	☐	125.000	129.456	231733.72	0.0558	P	1.1
5	☐	250.000	263.715	448756.08	0.1137	P	2.1
6	☐	500.000	502.508	801432.79	0.2166	P	1.7
7	☐	1000.000	994.583	1506537.96	0.4287	A	4.0
8	☐			1428.26	0.0004	P	24.3

$$y = 4.3107\text{E-}004 * x + 7.2659\text{E-}006$$

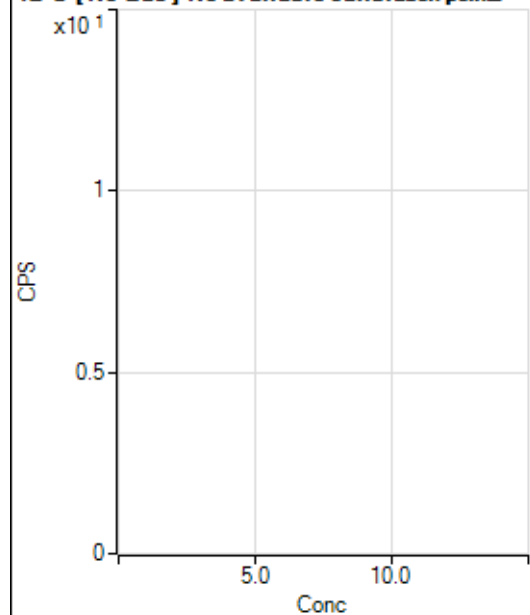
$$R = 0.9999$$

$$DL = 0.01536$$

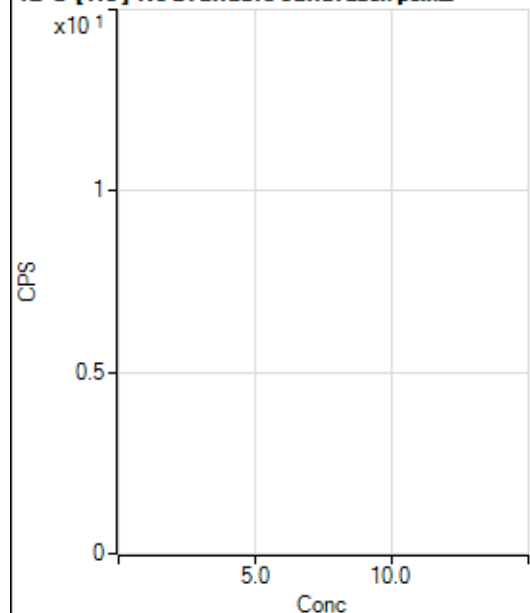
$$BEC = 0.01686$$

Weight: <None>

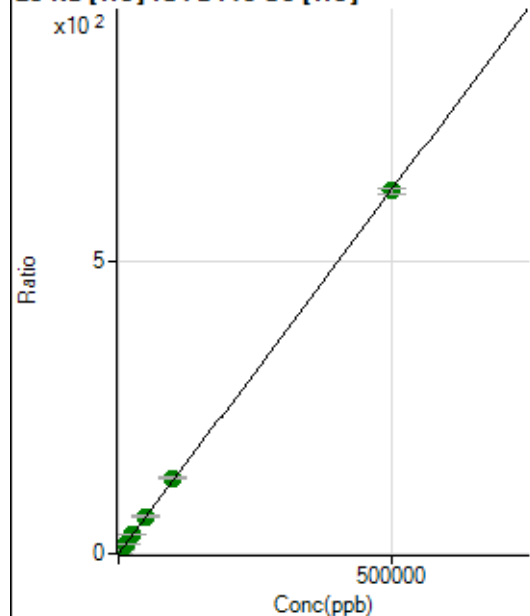
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2434354.23		A	0.6
2	☐			2451522.81		A	0.6
3	☐			2835351.90		A	1.0
4	☐			3360579.50		A	1.4
5	☐			3096958.04		A	1.8
6	☐			3372032.55		A	1.9
7	☐			3055195.68		A	4.3
8	☐			2815124.54		A	4.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29773.48		P	0.4
2	☐			29458.47		P	0.6
3	☐			34230.98		P	0.4
4	☐			40418.71		P	0.6
5	☐			37659.32		P	1.0
6	☐			42421.11		P	1.4
7	☐			41730.20		P	1.1
8	☐			43125.31		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11322.26	0.0504	P	0.6
2	☐	500.000	451.171	140652.06	0.6106	P	1.7
3	☐	5000.000	5076.077	1421206.68	6.3527	A	0.6
4	☐	12500.000	12902.868	3344197.76	16.0703	A	1.6
5	☐	25000.000	26793.767	6440500.18	33.3168	A	1.2
6	☐	50000.000	51492.712	11484779.69	63.9824	A	1.7
7	☐	100000.00	104334.87	22638182.44	129.5898	A	0.7
8	☐	500000.00	498883.28	123813470.3	619.4504	A	1.3

$$y = 0.0012 * x + 0.0504$$

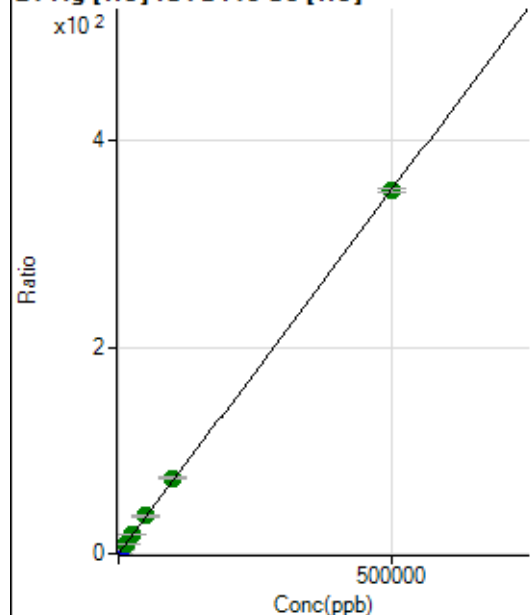
$$R = 1.0000$$

$$DL = 0.6891$$

$$BEC = 40.6$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	192.23	0.0009	P	11.9
2	☐	500.000	455.949	74104.78	0.3217	P	1.0
3	☐	5000.000	5102.386	803416.31	3.5910	P	0.8
4	☐	12500.000	13176.007	1929616.36	9.2719	A	1.1
5	☐	25000.000	26931.051	3663236.20	18.9503	A	0.4
6	☐	50000.000	51833.503	6546628.37	36.4723	A	1.2
7	☐	100000.00	104217.99	12809650.92	73.3315	A	1.8
8	☐	500000.00	498858.61	70157761.73	351.0113	A	1.2

$$y = 7.0363\text{E-}004 * x + 8.5734\text{E-}004$$

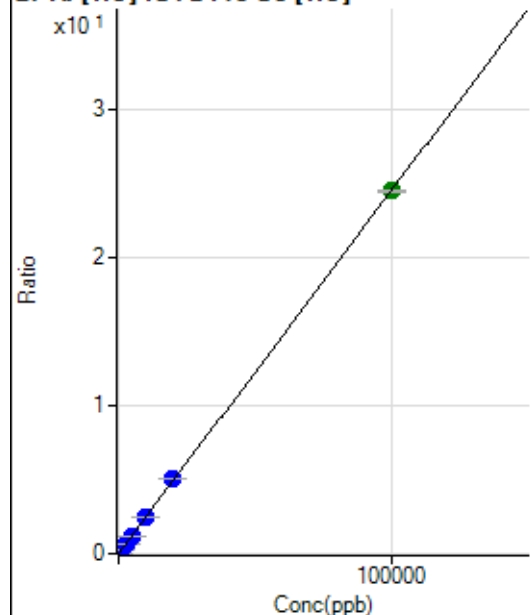
$$R = 1.0000$$

$$DL = 0.4348$$

$$BEC = 1.218$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	137.78	0.0006	P	16.4
2	☐	20.000	16.305	1063.38	0.0046	P	4.9
3	☐	1000.000	999.989	55009.33	0.2459	P	1.7
4	☐	2500.000	2578.958	131775.41	0.6332	P	1.2
5	☐	5000.000	4920.163	233420.52	1.2075	P	0.4
6	☐	10000.000	9933.470	437452.00	2.4372	P	1.7
7	☐	20000.000	20595.451	882583.22	5.0525	P	1.7
8	☐	100000.00	99889.582	4897306.35	24.5026	A	0.7

$$y = 2.4529\text{E-}004 * x + 6.1495\text{E-}004$$

$$R = 1.0000$$

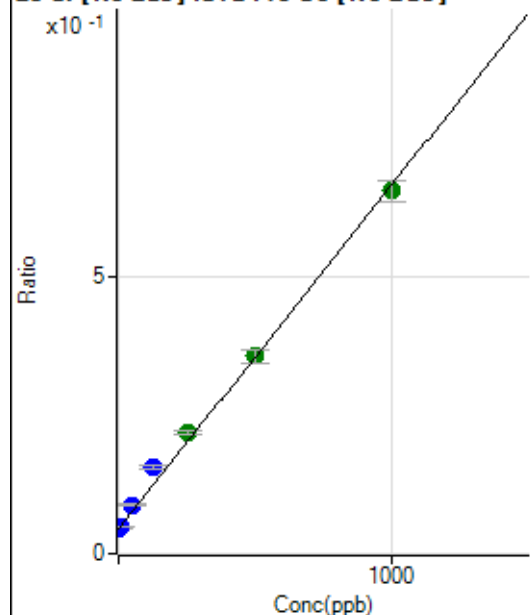
$$DL = 1.233$$

$$BEC = 2.507$$

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	298840.78	0.0449	P	0.6
2	☐	10.000	5.892	325564.02	0.0486	P	3.3
3	☐	50.000	70.028	579857.58	0.0884	P	1.2
4	☐	125.000	179.410	988082.94	0.1564	P	4.0
5	☐	250.000	279.228	1307718.45	0.2185	A	3.9
6	☐	500.000	503.157	2034190.37	0.3577	A	6.8
7	☐	1000.000	983.353	3578886.44	0.6562	A	5.9
8	☐			585452.69	0.1100	P	2.9

$$y = 6.2166\text{E-}004 * x + 0.0449$$

$$R = 0.9982$$

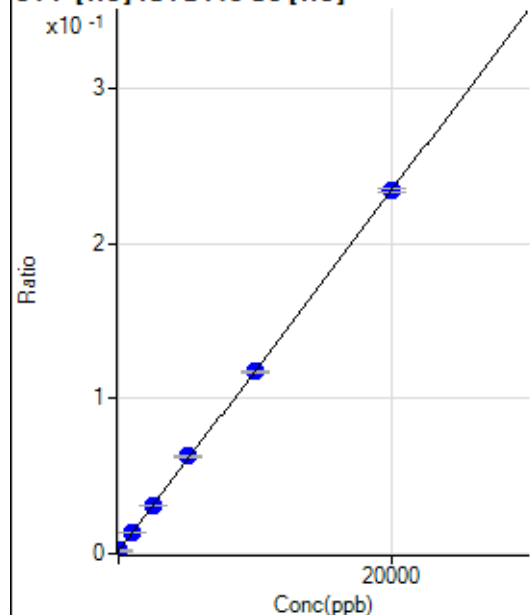
$$DL = 1.222$$

$$BEC = 72.24$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-3.312	407.79	0.0018	P	7.9
2	☐	0.000	3.312	436.68	0.0019	P	9.4
3	☐	1000.000	1008.061	3042.58	0.0136	P	4.5
4	☐	2500.000	2504.252	6455.93	0.0310	P	1.6
5	☐	5000.000	5236.338	12147.39	0.0628	P	0.9
6	☐	10000.000	9954.827	21144.40	0.1178	P	1.1
7	☐	20000.000	19962.567	40939.87	0.2344	P	1.0
8	☐			386.68	0.0019	P	14.7

$$y = 1.1647\text{E-}005 * x + 0.0019$$

$$R = 0.9999$$

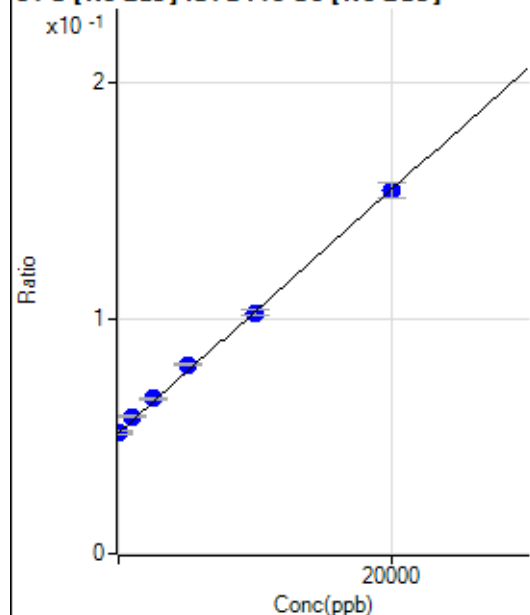
$$DL = 41.44$$

$$BEC = 159.4$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-4.755	341830.76	0.0514	P	0.6
2	☐	0.000	4.755	344614.66	0.0514	P	3.9
3	☐	1000.000	1344.616	382588.33	0.0584	P	1.4
4	☐	2500.000	2803.241	416434.17	0.0659	P	1.0
5	☐	5000.000	5608.646	481513.87	0.0804	P	1.4
6	☐	10000.000	9838.007	582441.07	0.1023	P	2.2
7	☐	20000.000	19873.699	841626.10	0.1543	P	4.3
8	☐			280917.89	0.0527	P	2.3

$$y = 5.1760E-006 * x + 0.0514$$

R = 0.9994

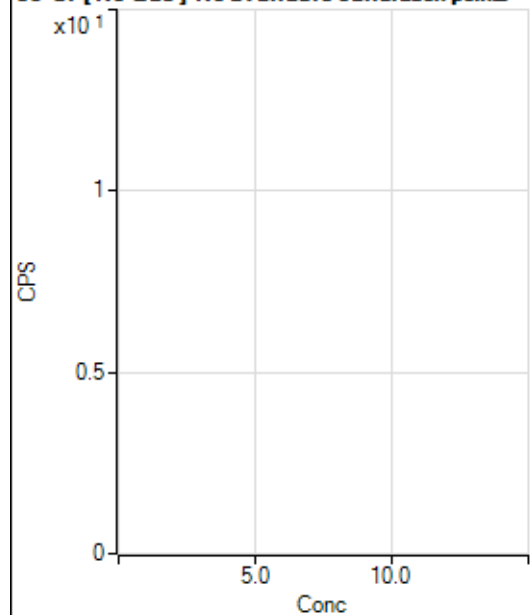
DL = 676.2

BEC = 9929

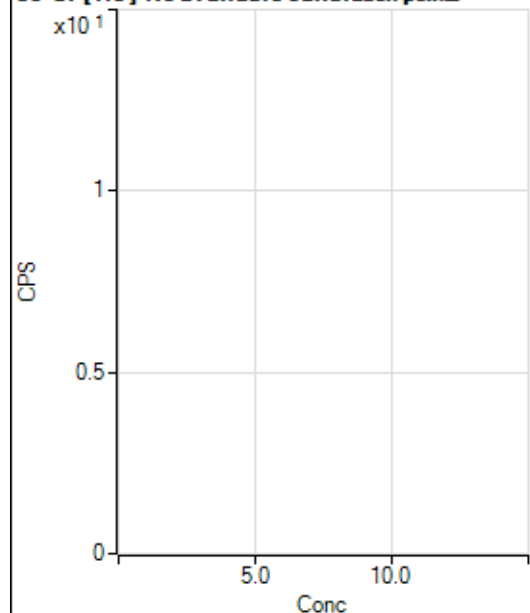
Weight: <None>

Min Conc: 0

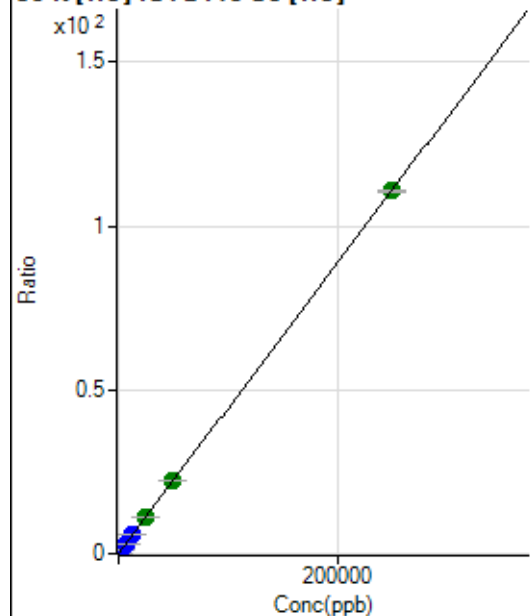
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90820.07		P	1.6
2	☐			90103.63		P	1.3
3	☐			206947.53		P	0.5
4	☐			1311386.43		A	1.9
5	☐			1221171.66		A	3.2
6	☐			1068265.58		P	3.9
7	☐			930955.13		P	6.1
8	☐			533259.88		P	4.0

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			611.13		P	9.1
2	☐			621.13		P	6.8
3	☐			1416.75		P	4.5
4	☐			9222.99		P	1.1
5	☐			8109.01		P	0.9
6	☐			7172.94		P	1.0
7	☐			6558.22		P	3.4
8	☐			4009.48		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9495.43	0.0423	P	1.6
2	☐	500.000	444.613	55087.93	0.2391	P	0.9
3	☐	2500.000	2505.257	257597.58	1.1514	P	0.2
4	☐	6250.000	6302.639	589479.73	2.8326	P	1.0
5	☐	12500.000	12971.037	1118208.02	5.7848	P	0.8
6	☐	25000.000	24719.916	1971905.54	10.9863	A	1.5
7	☐	50000.000	49921.841	3868318.28	22.1436	A	0.8
8	☐	250000.00	250018.83	22130912.17	110.7305	A	0.5

$$y = 4.4272E-004 * x + 0.0423$$

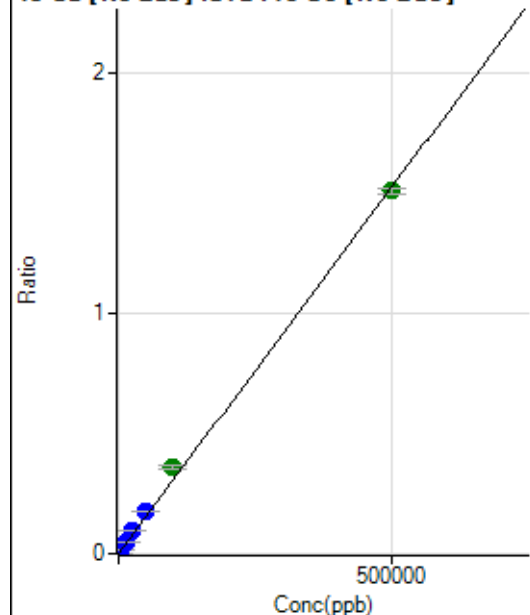
$$R = 1.0000$$

$$DL = 4.658$$

$$BEC = 95.51$$

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	337.78	0.0001	P	7.2
2	☐	500.000	459.386	9737.81	0.0015	P	2.8
3	☐	5000.000	6065.994	121701.27	0.0186	P	2.1
4	☐	12500.000	15097.542	291423.13	0.0461	P	1.2
5	☐	25000.000	31121.756	568875.07	0.0950	P	1.3
6	☐	50000.000	58064.286	1008812.11	0.1772	P	3.1
7	☐	100000.00	117039.23	1949067.99	0.3572	A	4.2
8	☐	500000.00	495404.07	8051538.91	1.5119	A	1.4

$$y = 3.0518\text{E-}006 * x + 5.0726\text{E-}005$$

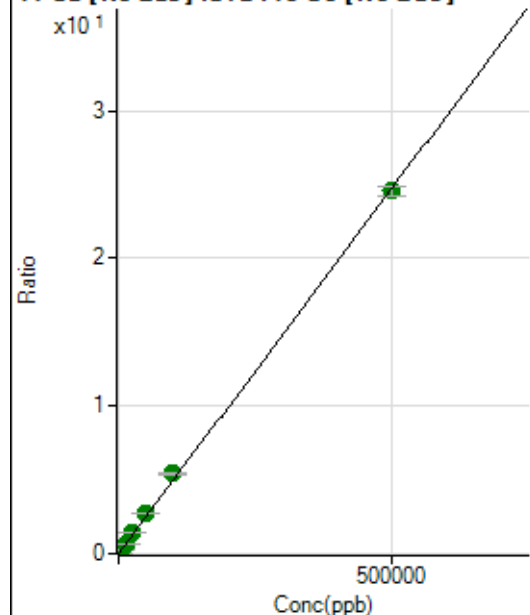
$$R = 0.9993$$

$$DL = 3.574$$

$$BEC = 16.62$$

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	36300.26	0.0055	P	1.8
2	☐	500.000	463.097	189796.31	0.0283	P	3.2
3	☐	5000.000	5737.066	1892496.29	0.2887	A	1.8
4	☐	12500.000	14191.055	4459655.42	0.7060	A	2.7
5	☐	25000.000	28836.574	8555068.97	1.4290	A	0.7
6	☐	50000.000	55208.179	15548282.68	2.7308	A	1.5
7	☐	100000.00	109517.03	29526027.62	5.4117	A	4.3
8	☐	500000.00	497334.33	130733083.6	24.5562	A	2.7

$$y = 4.9365\text{E-}005 * x + 0.0055$$

$$R = 0.9998$$

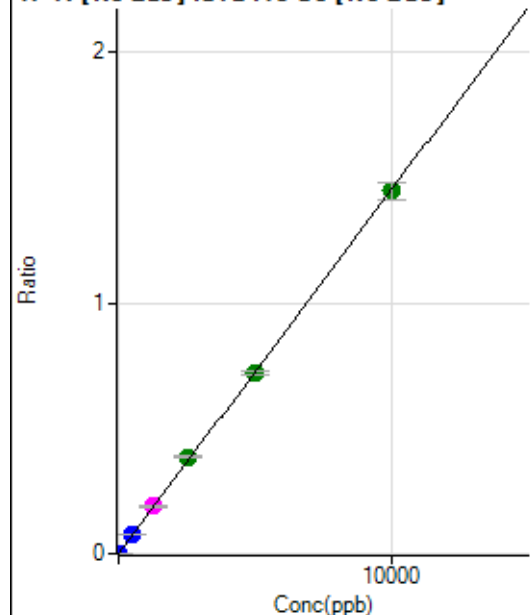
$$DL = 6.097$$

$$BEC = 110.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	131.11	0.0000	P	21.0
2	☐	5.000	4.767	4767.51	0.0007	P	3.7
3	☐	500.000	528.893	503249.98	0.0768	P	1.4
4	☐	1250.000	1302.636	1194051.75	0.1890	M	2.7
5	☐	2500.000	2652.912	2304303.18	0.3849	A	1.7
6	☐	5000.000	4974.730	4108839.24	0.7218	A	2.6
7	☐	10000.000	9966.383	7888269.75	1.4460	A	4.9
8	☐			7473.39	0.0014	P	25.4

$$y = 1.4509\text{E-}004 * x + 1.9711\text{E-}005$$

$$R = 0.9999$$

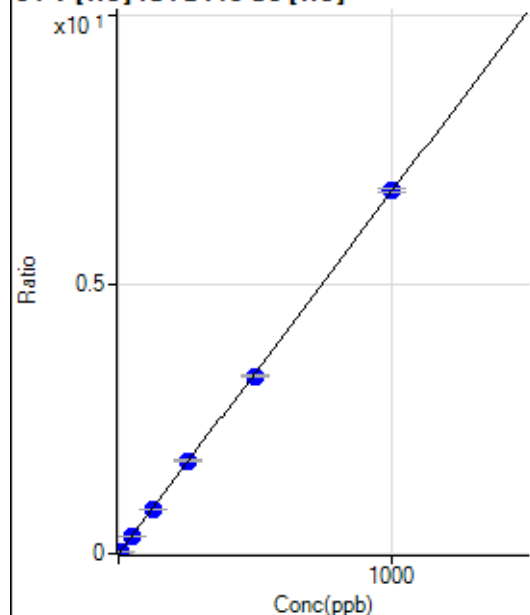
$$DL = 0.08559$$

$$BEC = 0.1359$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.55	0.0001	P	26.3
2	☐	5.000	4.532	7038.45	0.0306	P	4.5
3	☐	50.000	49.726	74753.86	0.3341	P	0.4
4	☐	125.000	123.748	173012.26	0.8314	P	1.4
5	☐	250.000	256.967	333688.11	1.7263	P	0.8
6	☐	500.000	491.130	592169.97	3.2992	P	1.8
7	☐	1000.000	1002.866	1176853.39	6.7368	P	1.1
8	☐			1016.99	0.0051	P	55.3

$$y = 0.0067 * x + 1.1360\text{E-}004$$

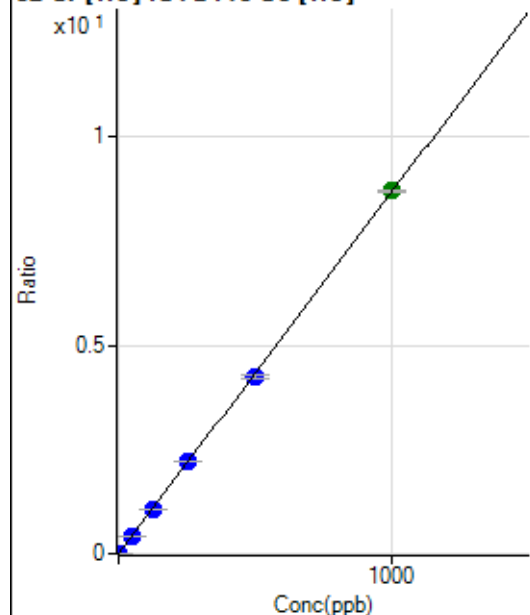
$$R = 0.9999$$

$$DL = 0.01337$$

$$BEC = 0.01691$$

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	987.82	0.0044	P	6.3
2	☐	2.000	1.733	4472.96	0.0194	P	1.5
3	☐	50.000	49.076	96096.69	0.4295	P	0.2
4	☐	125.000	123.657	223850.48	1.0756	P	0.9
5	☐	250.000	253.384	425162.66	2.1994	P	0.4
6	☐	500.000	489.544	761943.30	4.2452	P	2.3
7	☐	1000.000	1004.596	1521054.26	8.7070	A	0.5
8	☐			11845.61	0.0593	P	9.1

$$y = 0.0087 * x + 0.0044$$

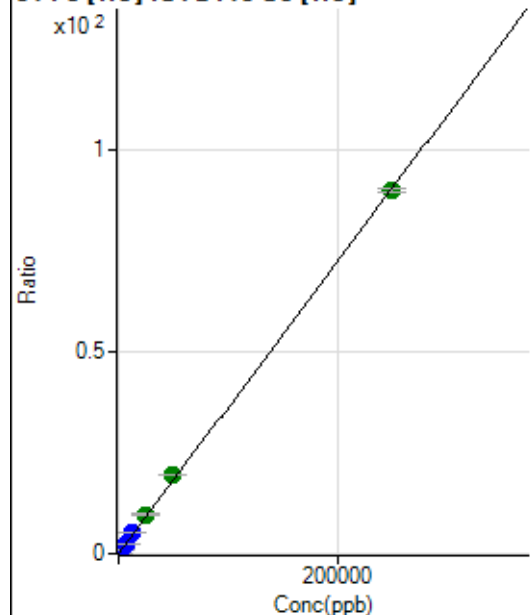
$$R = 0.9999$$

$$DL = 0.09556$$

$$BEC = 0.5082$$

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	311.12	0.0014	P	18.1
2	☐	50.000	49.203	4414.05	0.0192	P	2.8
3	☐	2500.000	2706.190	218995.96	0.9789	P	0.3
4	☐	6250.000	6792.772	510890.12	2.4550	P	1.7
5	☐	12500.000	13971.029	975812.89	5.0479	P	0.3
6	☐	25000.000	26987.457	1749931.99	9.7496	A	2.4
7	☐	50000.000	54089.082	3413190.54	19.5390	A	1.1
8	☐	250000.00	248894.25	17968311.68	89.9048	A	1.1

$$y = 3.6121E-004 * x + 0.0014$$

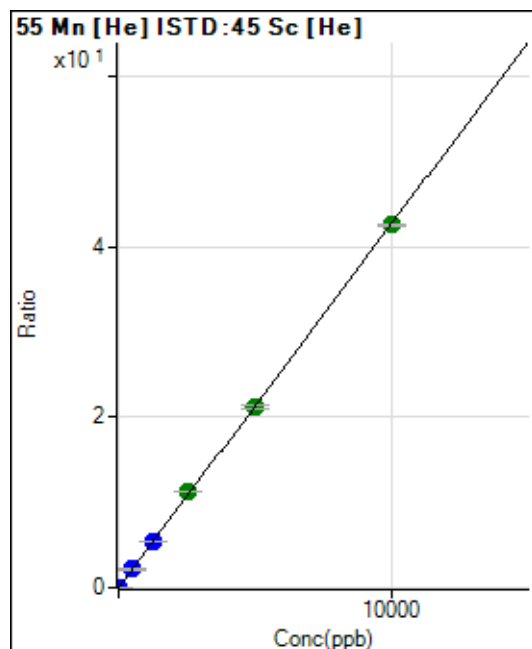
$$R = 0.9998$$

$$DL = 2.09$$

$$BEC = 3.844$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0004	P	8.0
2	☐	1.000	0.911	977.82	0.0042	P	2.7
3	☐	500.000	502.580	480500.94	2.1478	P	0.7
4	☐	1250.000	1260.297	1120772.20	5.3853	P	0.4
5	☐	2500.000	2638.585	2179401.95	11.2745	A	0.7
6	☐	5000.000	4985.068	3823146.92	21.3005	A	1.9
7	☐	10000.000	9971.403	7442974.40	42.6060	A	0.5
8	☐			10356.18	0.0519	P	34.9

$$y = 0.0043 * x + 3.5153E-004$$

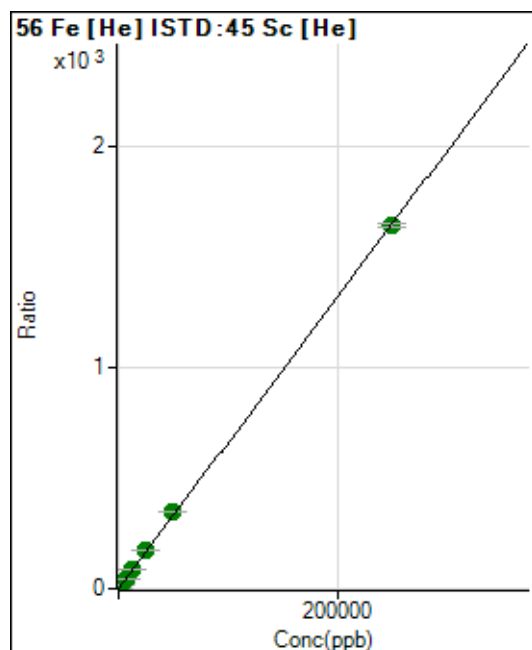
$$R = 0.9999$$

$$DL = 0.01974$$

$$BEC = 0.08227$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2055.73	0.0092	P	3.6
2	☐	50.000	47.994	74888.66	0.3251	P	1.2
3	☐	2500.000	2664.563	3926148.17	17.5491	A	0.3
4	☐	6250.000	6648.872	9109917.78	43.7766	A	1.5
5	☐	12500.000	13711.146	17449867.66	90.2653	A	1.2
6	☐	25000.000	26278.088	31049568.15	172.9895	A	1.6
7	☐	50000.000	53000.740	60948257.42	348.8964	A	1.0
8	☐	250000.00	249199.86	327855890.6	1,640.413	A	1.0

$$y = 0.0066 * x + 0.0092$$

$$R = 0.9999$$

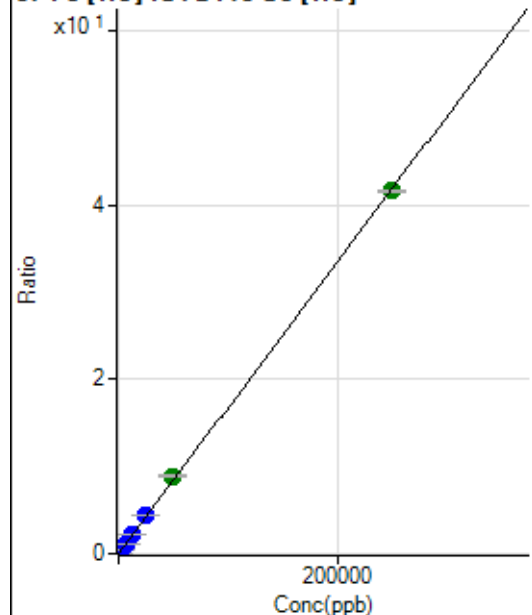
$$DL = 0.1494$$

$$BEC = 1.391$$

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	90.00	0.0004	P	12.5
2	☐	50.000	49.067	1979.05	0.0086	P	2.3
3	☐	2500.000	2647.958	98969.61	0.4424	P	0.3
4	☐	6250.000	6603.228	229471.78	1.1026	P	0.4
5	☐	12500.000	13686.831	441686.14	2.2849	P	0.8
6	☐	25000.000	26302.607	788053.30	4.3907	P	2.1
7	☐	50000.000	53353.053	1555839.56	8.9058	A	1.0
8	☐	250000.00	249129.47	8310624.46	41.5837	A	0.6

$$y = 1.6691\text{E-}004 * x + 3.9992\text{E-}004$$

$$R = 0.9999$$

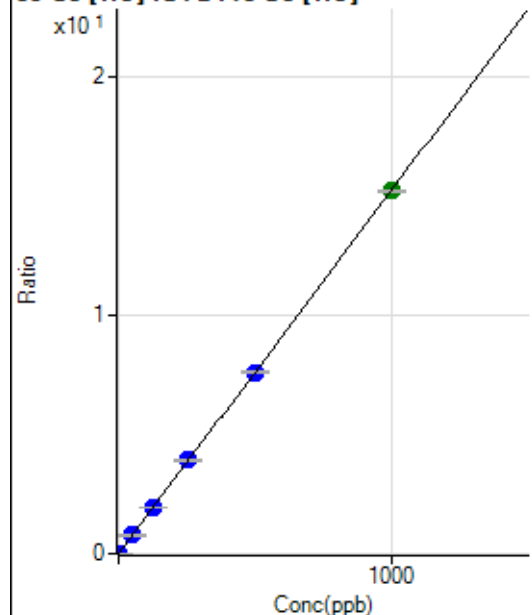
$$DL = 0.901$$

$$BEC = 2.396$$

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	92.22	0.0004	P	5.7
2	☐	1.000	0.927	3345.98	0.0145	P	3.5
3	☐	50.000	50.258	171352.76	0.7659	P	0.7
4	☐	125.000	126.067	399694.70	1.9206	P	0.7
5	☐	250.000	257.789	759061.30	3.9269	P	0.9
6	☐	500.000	499.199	1364808.03	7.6039	P	1.6
7	☐	1000.000	998.307	2656345.58	15.2060	A	0.6
8	☐			8744.79	0.0438	P	13.6

$$y = 0.0152 * x + 4.1070\text{E-}004$$

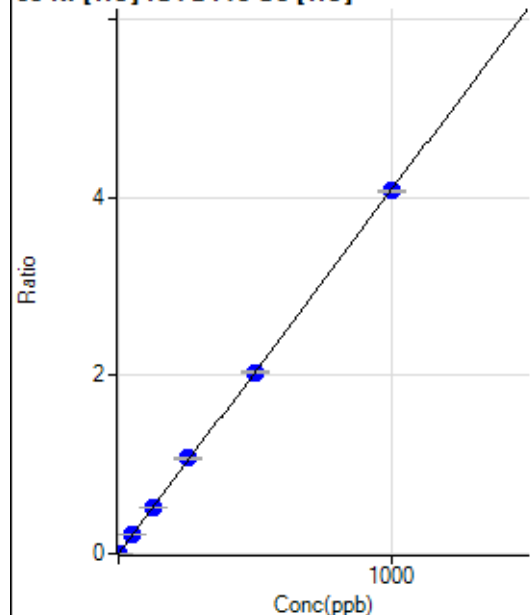
$$R = 1.0000$$

$$DL = 0.004594$$

$$BEC = 0.02696$$

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	107.78	0.0005	P	21.8
2	☐	1.000	0.881	940.04	0.0041	P	6.1
3	☐	50.000	51.353	47060.92	0.2104	P	1.9
4	☐	125.000	127.903	108901.13	0.5233	P	0.7
5	☐	250.000	262.265	207296.36	1.0724	P	1.1
6	☐	500.000	498.813	366040.21	2.0393	P	1.8
7	☐	1000.000	997.097	712040.37	4.0759	P	0.5
8	☐			3860.61	0.0193	P	5.2

$$y = 0.0041 * x + 4.8132E-004$$

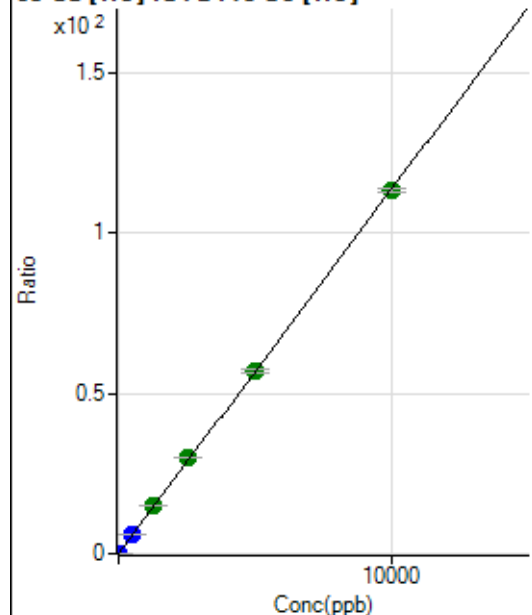
$$R = 0.9999$$

$$DL = 0.07689$$

$$BEC = 0.1178$$

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	4198.44	0.0187	P	4.9
2	☐	2.000	1.749	8887.30	0.0386	P	1.0
3	☐	500.000	515.530	1315147.79	5.8784	P	0.3
4	☐	1250.000	1303.263	3086845.58	14.8322	A	0.4
5	☐	2500.000	2634.310	5791718.25	29.9614	A	1.2
6	☐	5000.000	5005.707	10215115.82	56.9158	A	2.6
7	☐	10000.000	9956.135	19772369.57	113.1845	A	0.9
8	☐			16255.43	0.0814	P	40.5

$$y = 0.0114 * x + 0.0187$$

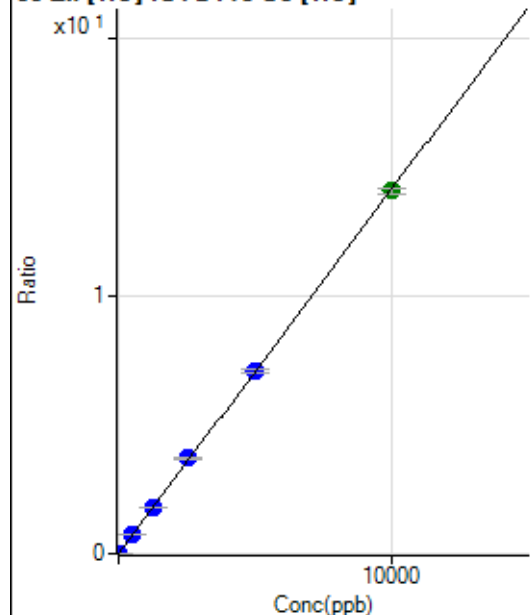
$$R = 0.9999$$

$$DL = 0.2411$$

$$BEC = 1.645$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	476.68	0.0021	P	3.7
2	☐	5.000	3.553	1646.78	0.0071	P	2.1
3	☐	500.000	506.781	160893.88	0.7192	P	0.5
4	☐	1250.000	1262.652	372243.71	1.7887	P	0.8
5	☐	2500.000	2621.475	717359.62	3.7113	P	1.4
6	☐	5000.000	5017.037	1274545.18	7.1009	P	1.8
7	☐	10000.000	9959.193	2462283.40	14.0937	A	1.5
8	☐			5547.20	0.0278	P	13.0

$$y = 0.0014 * x + 0.0021$$

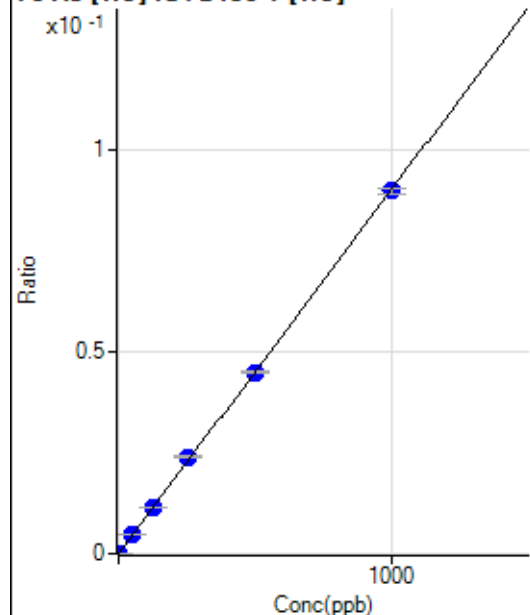
$$R = 0.9999$$

$$DL = 0.1683$$

$$BEC = 1.499$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.5
2	☐	1.000	0.908	148.89	0.0001	P	6.1
3	☐	50.000	53.339	8385.89	0.0048	P	2.1
4	☐	125.000	127.714	18791.52	0.0115	P	0.7
5	☐	250.000	266.631	36765.74	0.0241	P	1.3
6	☐	500.000	497.399	64288.18	0.0449	P	1.1
7	☐	1000.000	996.637	126511.61	0.0900	P	1.7
8	☐			122.22	0.0001	P	26.8

$$y = 9.0262E-005 * x + 1.8710E-006$$

$$R = 0.9998$$

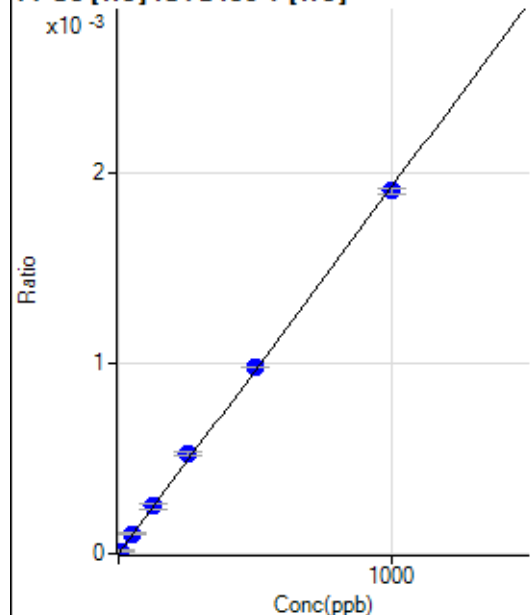
$$DL = 0.06188$$

$$BEC = 0.02073$$

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	0.00	0.0000	P	
2	☐	5.000	6.802	23.34	0.0000	P	48.7
3	☐	50.000	54.302	182.22	0.0001	P	12.7
4	☐	125.000	129.577	406.68	0.0002	P	11.7
5	☐	250.000	274.153	806.70	0.0005	P	3.0
6	☐	500.000	507.570	1400.09	0.0010	P	0.3
7	☐	1000.000	989.381	2680.29	0.0019	P	1.8
8	☐			22.22	0.0000	P	56.6

$$y = 1.9264\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

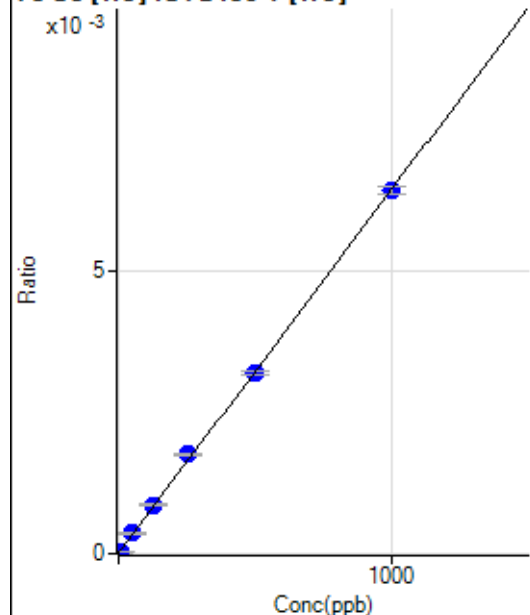
$$DL = 0$$

$$BEC = 0$$

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	15.56	0.0000	P	84.2
2	☐	5.000	5.710	81.11	0.0000	P	12.9
3	☐	50.000	54.288	622.25	0.0004	P	7.1
4	☐	125.000	132.927	1404.53	0.0009	P	3.3
5	☐	250.000	271.963	2678.06	0.0018	P	3.0
6	☐	500.000	493.732	4547.44	0.0032	P	2.3
7	☐	1000.000	996.435	8999.61	0.0064	P	2.0
8	☐			76.67	0.0000	P	25.1

$$y = 6.4136\text{E-}006 * x + 9.0509\text{E-}006$$

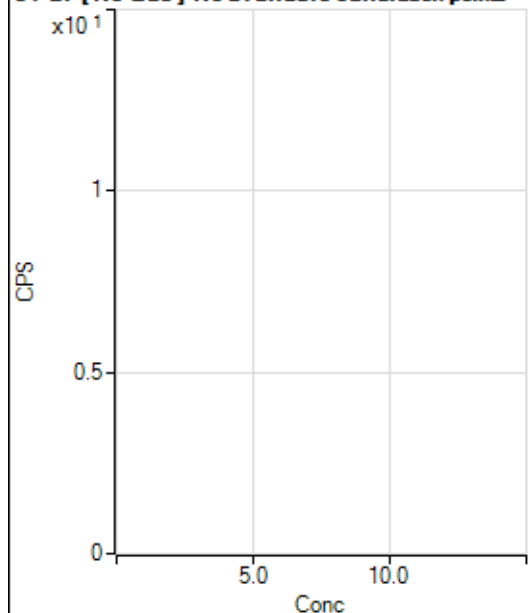
$$R = 0.9997$$

$$DL = 3.563$$

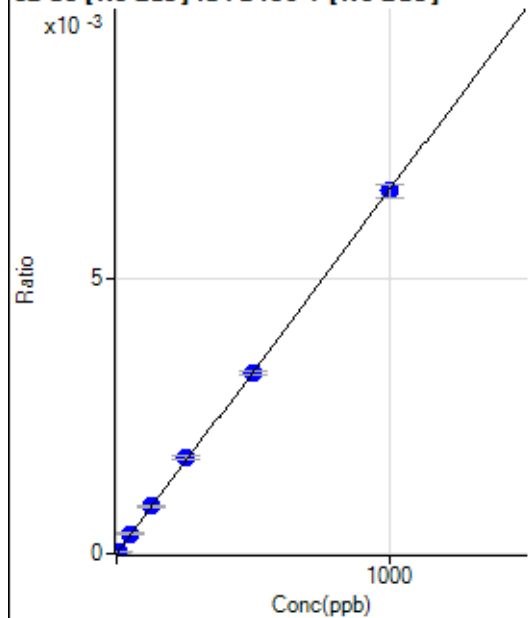
$$BEC = 1.411$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3301.54		P	7.3
2	☐			3572.72		P	3.9
3	☐			3390.45		P	5.6
4	☐			3103.71		P	3.7
5	☐			2828.10		P	2.4
6	☐			2356.89		P	3.1
7	☐			2349.11		P	2.0
8	☐			3957.27		P	12.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-45.56	0.0000	P	-51.
2	☐	5.000	5.243	541.14	0.0000	P	10.7
3	☐	50.000	54.504	6025.89	0.0004	P	4.6
4	☐	125.000	129.898	14106.29	0.0009	P	1.6
5	☐	250.000	266.436	27245.89	0.0018	P	4.1
6	☐	500.000	495.633	49192.41	0.0033	P	2.0
7	☐	1000.000	997.236	92938.45	0.0066	P	3.8
8	☐			583.37	0.0000	P	8.7

$$y = 6.6391E-006 * x - 2.7211E-006$$

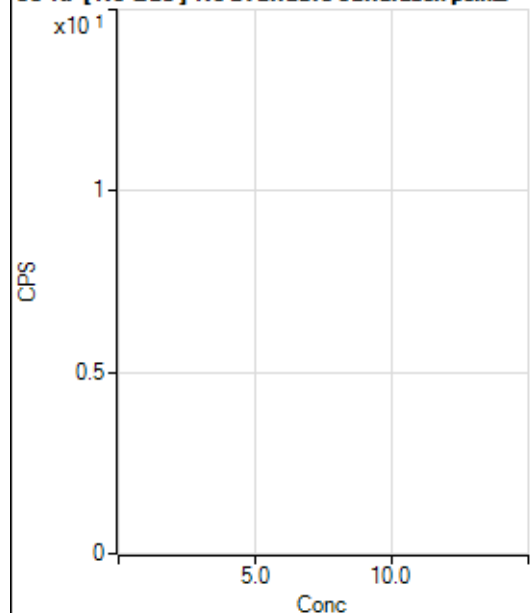
$$R = 0.9998$$

$$DL = 0.6336$$

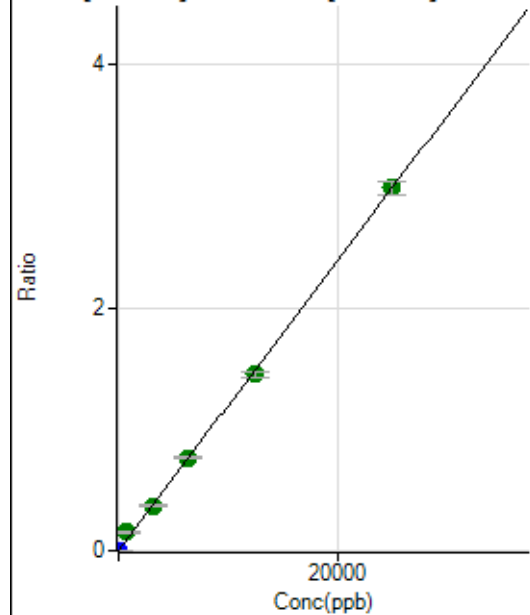
$$BEC = -0.4099$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			255.56		P	11.8
2	☐			233.34		P	13.6
3	☐			207.78		P	14.4
4	☐			206.67		P	8.4
5	☐			196.67		P	19.1
6	☐			217.78		P	17.9
7	☐			175.56		P	8.6
8	☐			202.22		P	24.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	478.90	0.0000	P	11.7
2	☐	1.000	0.893	2273.54	0.0001	P	5.3
3	☐	625.000	1270.132	2540840.99	0.1514	A	2.1
4	☐	3125.000	3115.460	6090583.66	0.3713	A	1.2
5	☐	6250.000	6439.424	11839286.49	0.7673	A	2.6
6	☐	12500.000	12220.733	21786068.84	1.4562	A	3.2
7	☐	25000.000	25077.342	41964280.76	2.9882	A	3.5
8	☐			36931.03	0.0027	P	32.6

$$y = 1.1916\text{E-}004 * x + 2.8363\text{E-}005$$

$$R = 0.9996$$

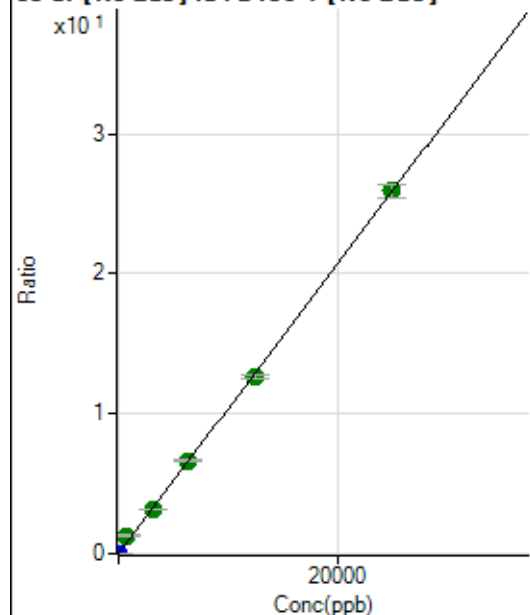
$$DL = 0.08363$$

$$BEC = 0.238$$

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	1070.05	0.0001	P	2.1
2	☐	1.000	0.938	17409.86	0.0010	P	1.3
3	☐	625.000	1262.763	21900910.79	1.3048	A	2.0
4	☐	3125.000	3098.888	52529428.66	3.2018	A	0.7
5	☐	6250.000	6434.350	102584847.3	6.6480	A	1.9
6	☐	12500.000	12204.059	188648834.9	12.6093	A	2.6
7	☐	25000.000	25089.203	364021990.1	25.9222	A	3.7
8	☐			320330.27	0.0234	P	32.6

$$y = 0.0010 * x + 6.3214E-005$$

$$R = 0.9995$$

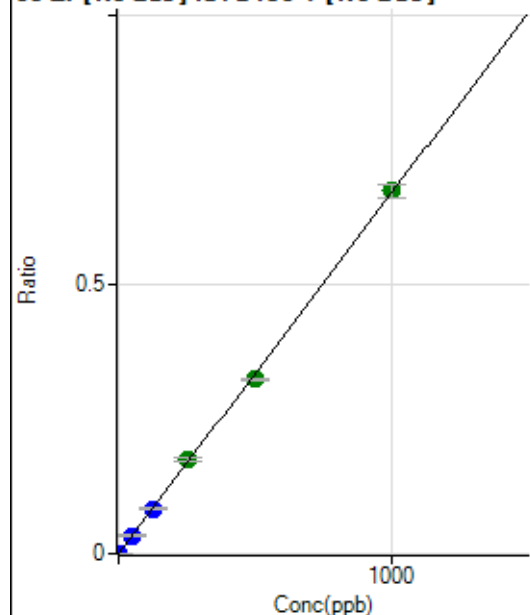
$$DL = 0.00386$$

$$BEC = 0.06118$$

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	776.70	0.0000	P	10.4
2	☐	1.000	0.932	11312.46	0.0007	P	1.1
3	☐	50.000	50.406	567614.96	0.0338	P	2.5
4	☐	125.000	124.867	1373240.22	0.0837	P	1.1
5	☐	250.000	260.872	2697268.74	0.1748	A	3.2
6	☐	500.000	483.292	4846277.70	0.3239	A	0.9
7	☐	1000.000	1005.632	9462536.25	0.6738	A	3.6
8	☐			11763.11	0.0009	P	19.8

$$y = 6.7001E-004 * x + 4.5951E-005$$

$$R = 0.9997$$

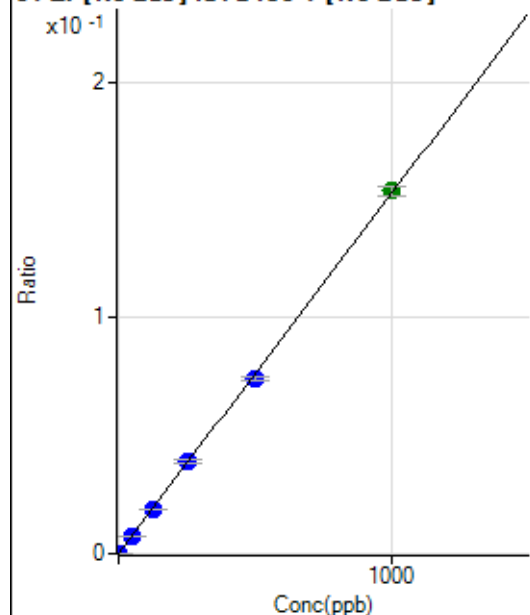
$$DL = 0.02137$$

$$BEC = 0.06858$$

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	117.78	0.0000	P	4.6
2	☐	1.000	0.822	2235.76	0.0001	P	5.9
3	☐	50.000	49.395	126752.40	0.0076	P	2.2
4	☐	125.000	122.153	306210.95	0.0187	P	0.7
5	☐	250.000	256.163	603798.09	0.0391	P	2.7
6	☐	500.000	483.716	1105548.26	0.0739	P	1.9
7	☐	1000.000	1006.988	2160447.02	0.1538	A	2.5
8	☐			2626.97	0.0002	P	21.2

$$y = 1.5274\text{E-}004 * x + 6.9563\text{E-}006$$

$$R = 0.9998$$

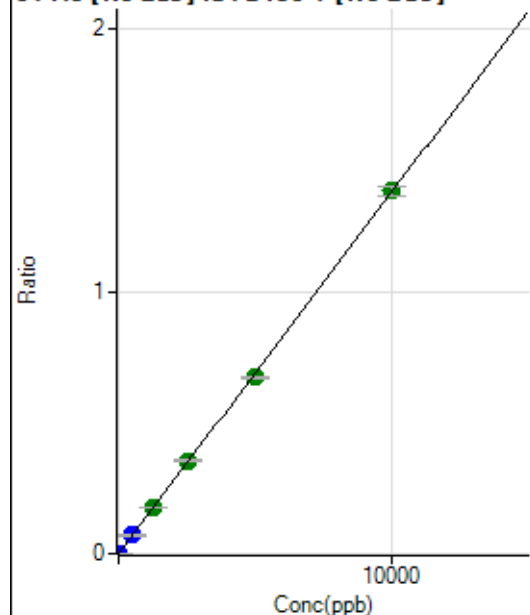
$$DL = 0.00626$$

$$BEC = 0.04554$$

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	200.00	0.0000	P	24.8
2	☐	5.000	5.365	12666.96	0.0008	P	2.2
3	☐	500.000	510.788	1181136.40	0.0704	P	2.7
4	☐	1250.000	1262.815	2853916.55	0.1740	A	1.6
5	☐	2500.000	2568.164	5459540.13	0.3538	A	1.3
6	☐	5000.000	4884.397	10067881.17	0.6728	A	1.4
7	☐	10000.000	10038.619	19422415.54	1.3829	A	2.7
8	☐			19934.97	0.0015	P	32.7

$$y = 1.3775\text{E-}004 * x + 1.1878\text{E-}005$$

$$R = 0.9999$$

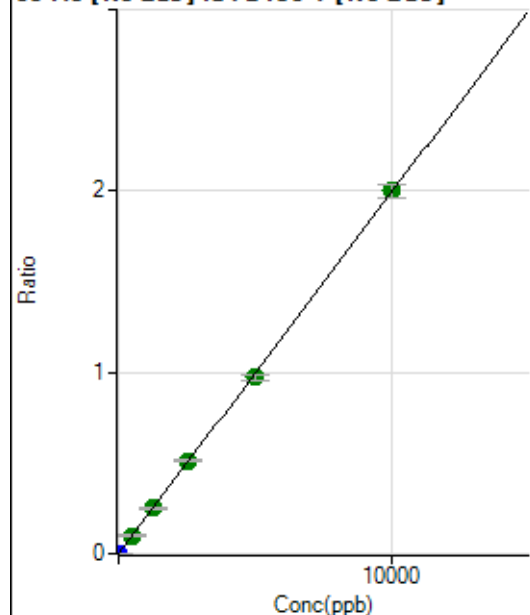
$$DL = 0.06428$$

$$BEC = 0.08623$$

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	45.56	0.0000	P	35.7
2	☐	5.000	4.527	15257.38	0.0009	P	1.8
3	☐	500.000	503.795	1684828.07	0.1004	A	1.6
4	☐	1250.000	1253.322	4096207.23	0.2497	A	1.1
5	☐	2500.000	2580.351	7932145.85	0.5140	A	1.8
6	☐	5000.000	4878.368	14539938.12	0.9718	A	2.6
7	☐	10000.000	10040.124	28087625.69	2.0001	A	3.6
8	☐			27628.79	0.0020	P	32.1

$$y = 1.9921\text{E-}004 * x + 2.6801\text{E-}006$$

$$R = 0.9999$$

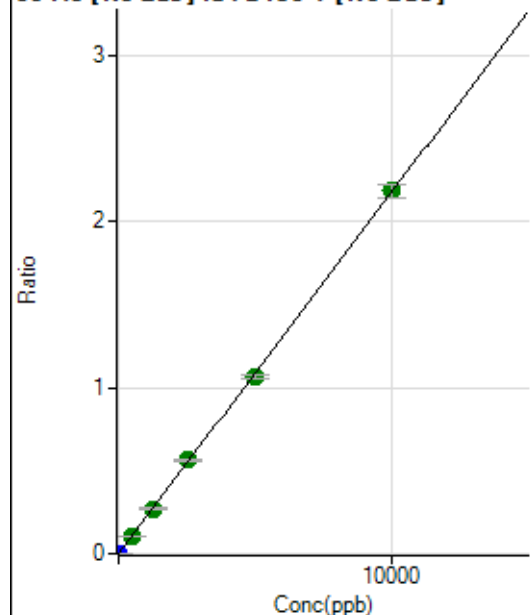
$$DL = 0.0144$$

$$BEC = 0.01345$$

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	146.67	0.0000	P	14.9
2	☐	5.000	4.629	17137.35	0.0010	P	1.5
3	☐	500.000	497.630	1817964.42	0.1083	A	1.8
4	☐	1250.000	1241.105	4430969.80	0.2701	A	1.5
5	☐	2500.000	2587.778	8690908.69	0.5632	A	1.5
6	☐	5000.000	4884.289	15902734.76	1.0629	A	2.3
7	☐	10000.000	10037.141	30673920.10	2.1843	A	3.6
8	☐			29648.39	0.0022	P	29.5

$$y = 2.1762\text{E-}004 * x + 8.6431\text{E-}006$$

$$R = 0.9999$$

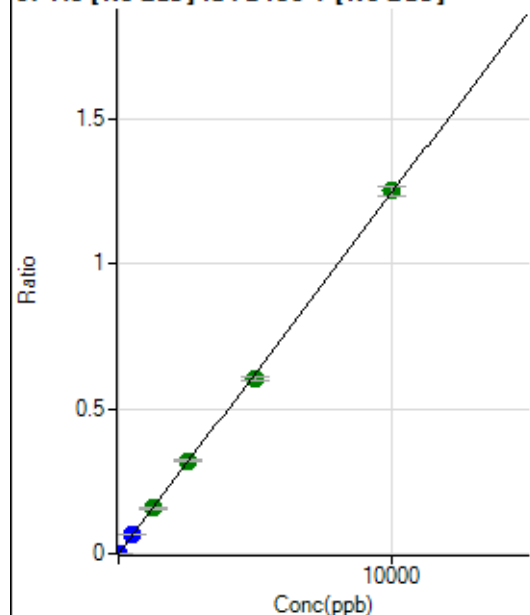
$$DL = 0.01773$$

$$BEC = 0.03972$$

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	23.33	0.0000	P	15.0
2	☐	5.000	4.576	9628.97	0.0006	P	1.5
3	☐	500.000	513.046	1071658.67	0.0638	P	2.5
4	☐	1250.000	1254.039	2560213.48	0.1561	A	1.9
5	☐	2500.000	2564.307	4924417.15	0.3191	A	2.1
6	☐	5000.000	4853.038	9037221.05	0.6040	A	1.6
7	☐	10000.000	10056.247	17576654.32	1.2515	A	3.0
8	☐			17097.64	0.0013	P	30.9

$$y = 1.2445\text{E-}004 * x + 1.3801\text{E-}006$$

$$R = 0.9998$$

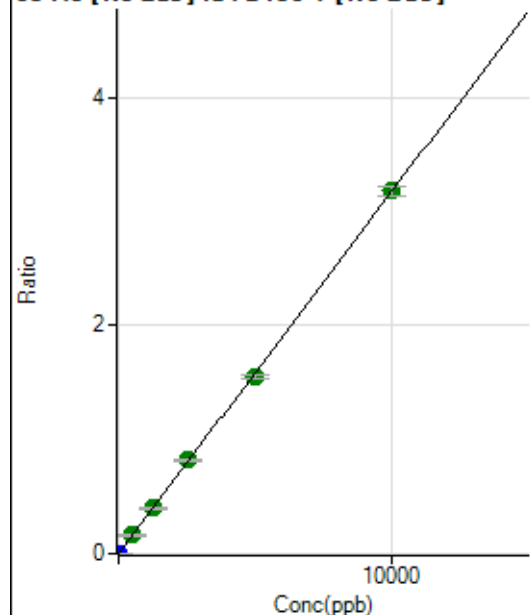
$$DL = 0.005006$$

$$BEC = 0.01109$$

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	71.11	0.0000	P	37.8
2	☐	5.000	4.538	24348.18	0.0014	P	1.8
3	☐	500.000	509.536	2712516.70	0.1616	A	2.2
4	☐	1250.000	1252.729	6517475.67	0.3973	A	1.4
5	☐	2500.000	2603.628	12741407.17	0.8257	A	2.1
6	☐	5000.000	4886.314	23185413.54	1.5496	A	2.2
7	☐	10000.000	10030.118	44676005.45	3.1809	A	2.8
8	☐			43925.33	0.0032	P	32.2

$$y = 3.1713\text{E-}004 * x + 4.1726\text{E-}006$$

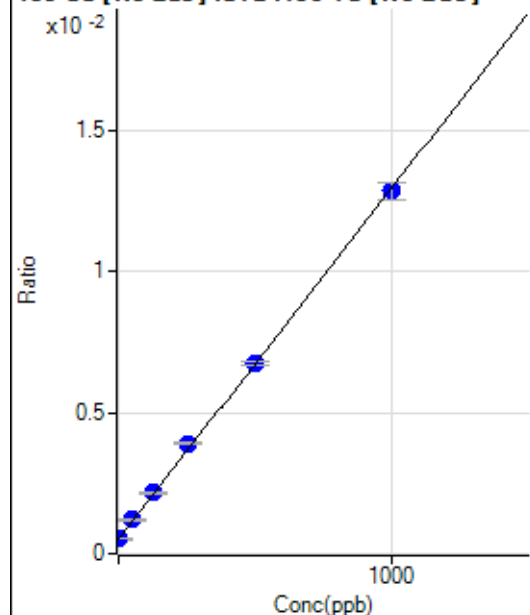
$$R = 0.9998$$

$$DL = 0.01492$$

$$BEC = 0.01316$$

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	7000.73	0.0005	P	3.4
2	☐	1.000	1.278	7183.06	0.0005	P	3.5
3	☐	50.000	55.382	16152.88	0.0012	P	2.4
4	☐	125.000	132.237	28598.60	0.0022	P	2.2
5	☐	250.000	273.452	50437.47	0.0039	P	1.9
6	☐	500.000	500.177	86101.03	0.0067	P	2.4
7	☐	1000.000	992.875	160703.74	0.0129	P	4.8
8	☐			5457.81	0.0005	P	2.4

$$y = 1.2441\text{E-}005 * x + 5.1566\text{E-}004$$

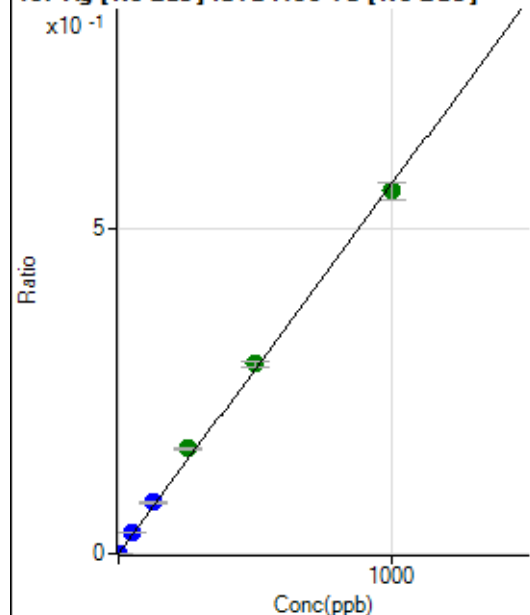
$$R = 0.9997$$

$$DL = 4.209$$

$$BEC = 41.45$$

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	152.22	0.0000	P	23.7
2	☐	1.000	0.992	7777.82	0.0006	P	4.6
3	☐	50.000	56.178	429049.92	0.0320	P	0.9
4	☐	125.000	138.310	1042178.61	0.0788	P	2.4
5	☐	250.000	284.032	2082156.06	0.1617	A	0.4
6	☐	500.000	514.384	3741535.12	0.2929	A	2.9
7	☐	1000.000	982.327	6985074.97	0.5593	A	5.0
8	☐			1552.33	0.0001	P	8.1

$$y = 5.6934\text{E-}004 * x + 1.1246\text{E-}005$$

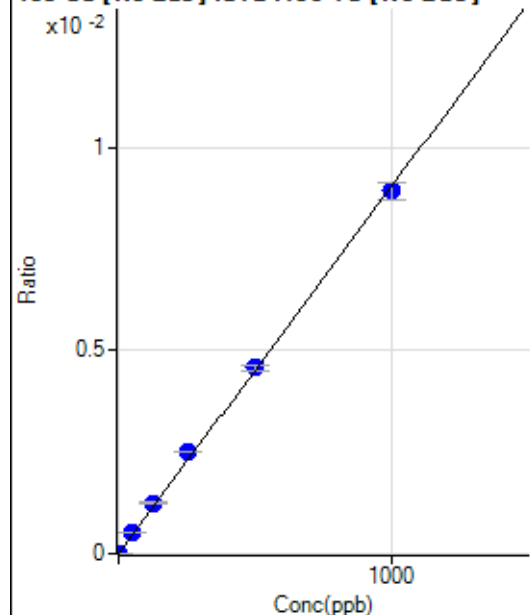
$$R = 0.9992$$

$$DL = 0.01406$$

$$BEC = 0.01975$$

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	20.00	0.0000	P	57.7
2	☐	1.000	0.872	126.67	0.0000	P	17.3
3	☐	50.000	55.730	6780.64	0.0005	P	1.6
4	☐	125.000	137.042	16423.23	0.0012	P	3.1
5	☐	250.000	278.926	32506.14	0.0025	P	0.2
6	☐	500.000	505.880	58488.92	0.0046	P	2.5
7	☐	1000.000	988.037	111652.70	0.0089	P	4.7
8	☐			253.34	0.0000	P	38.9

$$y = 9.0464\text{E-}006 * x + 1.4729\text{E-}006$$

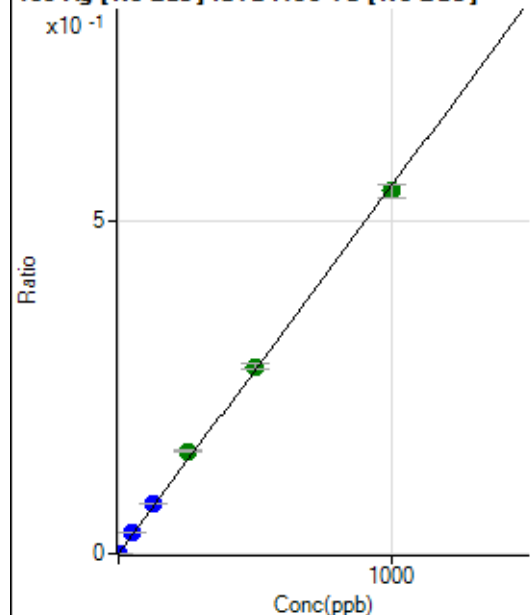
$$R = 0.9995$$

$$DL = 0.2819$$

$$BEC = 0.1628$$

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	122.22	0.0000	P	32.1
2	☐	1.000	0.952	7237.53	0.0005	P	4.4
3	☐	50.000	56.197	416877.89	0.0311	P	0.9
4	☐	125.000	136.963	1002494.72	0.0758	P	2.2
5	☐	250.000	278.621	1983972.28	0.1541	A	1.4
6	☐	500.000	508.989	3596434.25	0.2815	A	2.5
7	☐	1000.000	986.545	6815756.70	0.5456	A	3.7
8	☐			1446.76	0.0001	P	11.8

$$y = 5.5304\text{E-}004 * x + 9.0427\text{E-}006$$

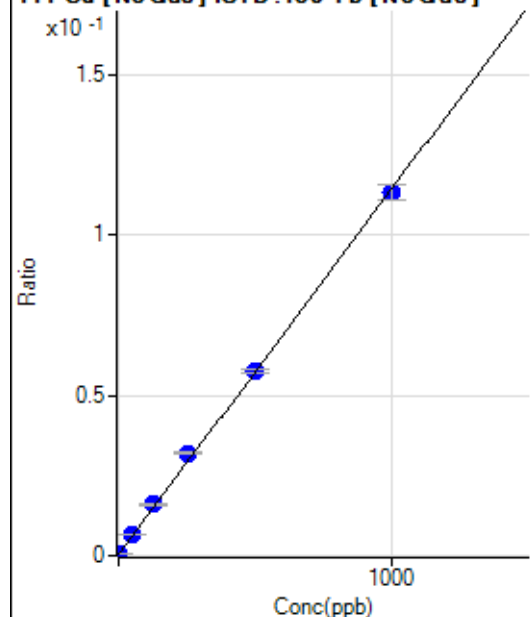
$$R = 0.9995$$

$$DL = 0.01574$$

$$BEC = 0.01635$$

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	4893.19	0.0004	P	3.2
2	☐	1.000	1.090	6547.36	0.0005	P	1.7
3	☐	50.000	56.361	90879.35	0.0068	P	0.8
4	☐	125.000	136.358	210174.08	0.0159	P	3.0
5	☐	250.000	277.341	411161.59	0.0319	P	1.0
6	☐	500.000	503.235	736653.27	0.0577	P	1.8
7	☐	1000.000	989.809	1412080.71	0.1130	P	4.2
8	☐			5567.74	0.0005	P	7.5

$$y = 1.1385\text{E-}004 * x + 3.6042\text{E-}004$$

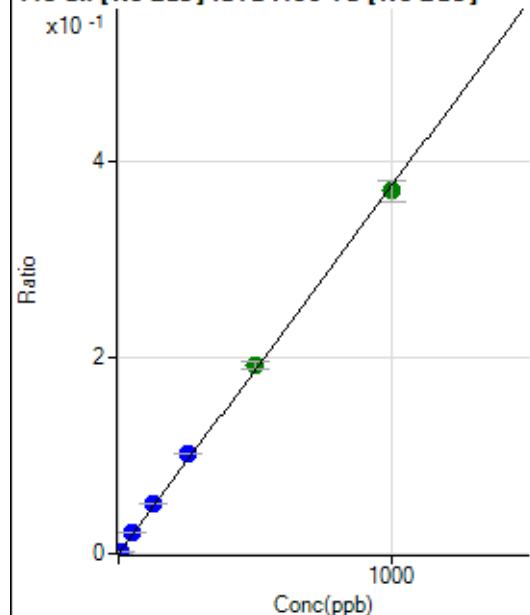
$$R = 0.9996$$

$$DL = 0.3071$$

$$BEC = 3.166$$

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	1610.12	0.0001	P	2.3
2	☐	5.000	4.909	26420.04	0.0020	P	1.3
3	☐	50.000	54.928	277139.85	0.0207	P	1.0
4	☐	125.000	134.880	669345.22	0.0506	P	2.0
5	☐	250.000	273.669	1319677.17	0.1025	P	0.4
6	☐	500.000	511.303	2445020.71	0.1914	A	3.8
7	☐	1000.000	986.950	4612103.79	0.3693	A	5.6
8	☐			7199.81	0.0006	P	18.7

$$y = 3.7410\text{E-}004 * x + 1.1855\text{E-}004$$

$$R = 0.9996$$

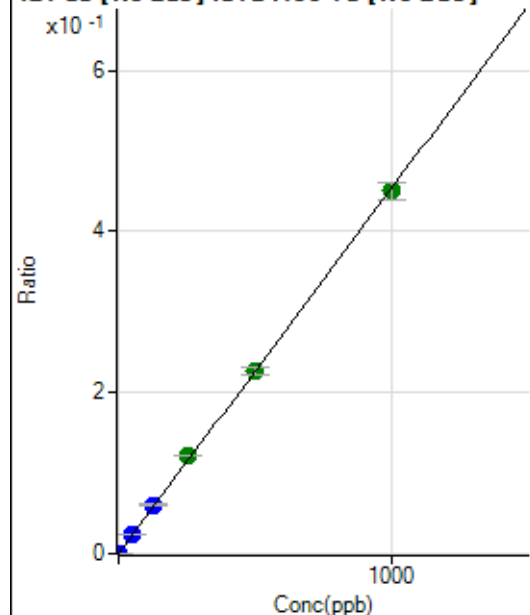
$$DL = 0.02161$$

$$BEC = 0.3169$$

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	57.78	0.0000	P	43.0
2	☐	2.000	1.962	12074.31	0.0009	P	2.6
3	☐	50.000	53.961	327991.30	0.0245	P	1.3
4	☐	125.000	132.908	797134.26	0.0602	P	2.5
5	☐	250.000	269.225	1570986.33	0.1220	A	0.8
6	☐	500.000	501.668	2904197.29	0.2274	A	4.2
7	☐	1000.000	993.173	5621895.47	0.4501	A	4.6
8	☐			9323.38	0.0008	P	12.5

$$y = 4.5320\text{E-}004 * x + 4.2810\text{E-}006$$

$$R = 0.9998$$

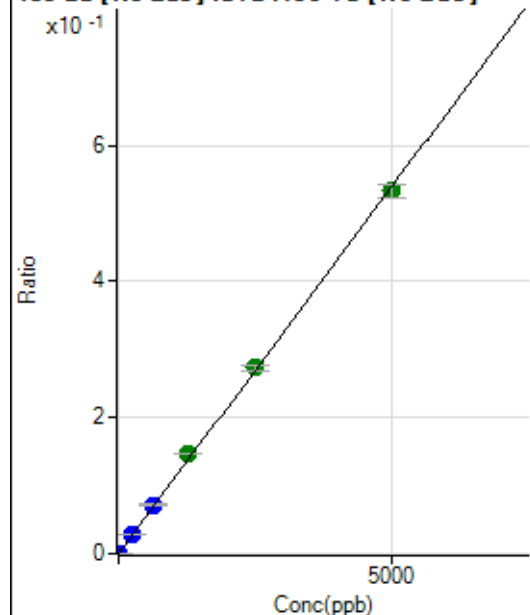
$$DL = 0.01218$$

$$BEC = 0.009446$$

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	95.56	0.0000	P	38.1
2	☐	10.000	9.410	13790.47	0.0010	P	1.1
3	☐	250.000	267.525	386447.75	0.0288	P	0.7
4	☐	625.000	661.177	942300.46	0.0712	P	2.6
5	☐	1250.000	1367.657	1896412.73	0.1473	A	1.0
6	☐	2500.000	2534.517	3487095.85	0.2730	A	3.0
7	☐	5000.000	4947.930	6656861.99	0.5329	A	3.5
8	☐			8994.40	0.0008	P	24.2

$$y = 1.0769\text{E-}004 * x + 7.0637\text{E-}006$$

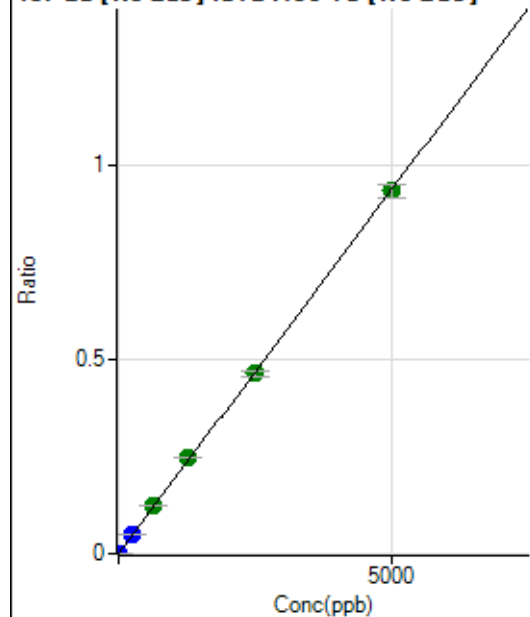
$$R = 0.9996$$

$$DL = 0.07501$$

$$BEC = 0.06559$$

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	123.33	0.0000	P	27.0
2	☐	10.000	9.579	24341.99	0.0018	P	2.5
3	☐	250.000	268.674	674304.60	0.0503	P	0.8
4	☐	625.000	660.535	1635816.48	0.1236	A	2.2
5	☐	1250.000	1326.045	3194827.97	0.2481	A	1.0
6	☐	2500.000	2477.569	5923149.29	0.4636	A	3.1
7	☐	5000.000	4986.829	11657996.36	0.9332	A	3.6
8	☐			15562.88	0.0013	P	20.6

$$y = 1.8713E-004 * x + 9.0730E-006$$

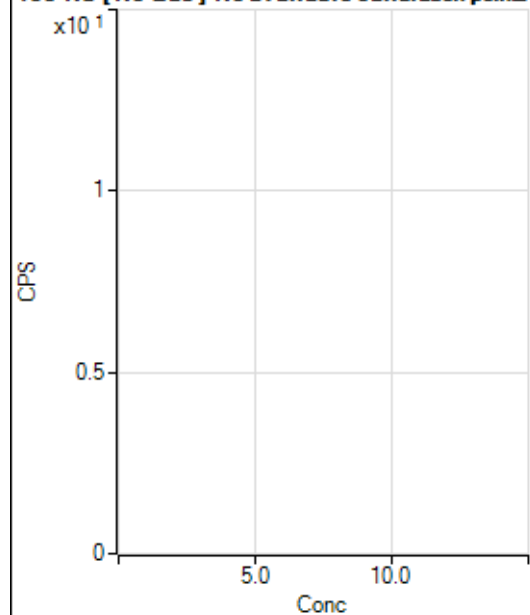
$$R = 0.9998$$

$$DL = 0.03922$$

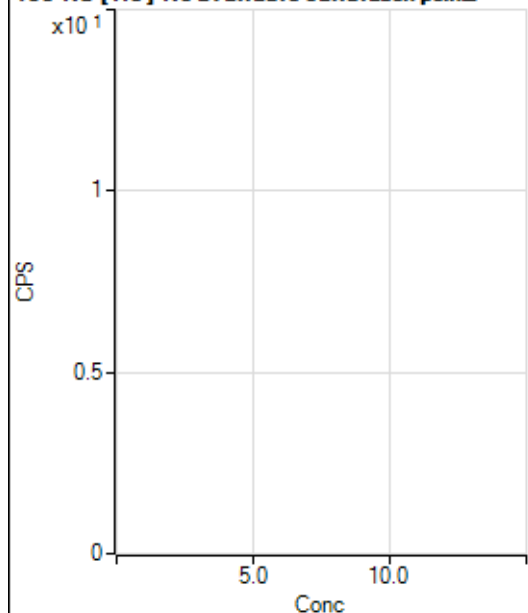
$$BEC = 0.04849$$

Weight: <None>

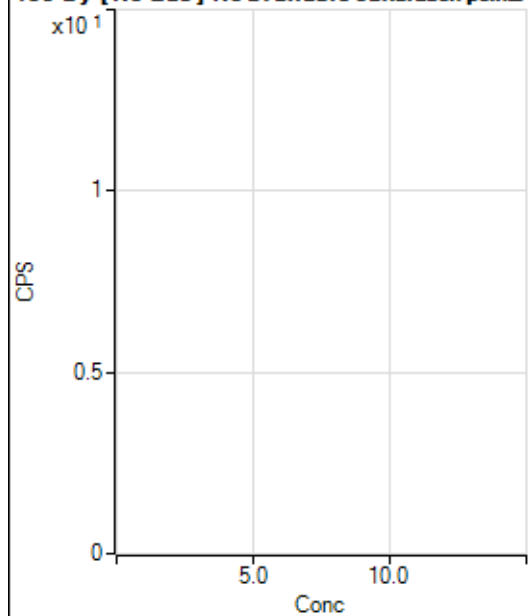
Min Conc: 0

150 Nd [No Gas] No available calibration points

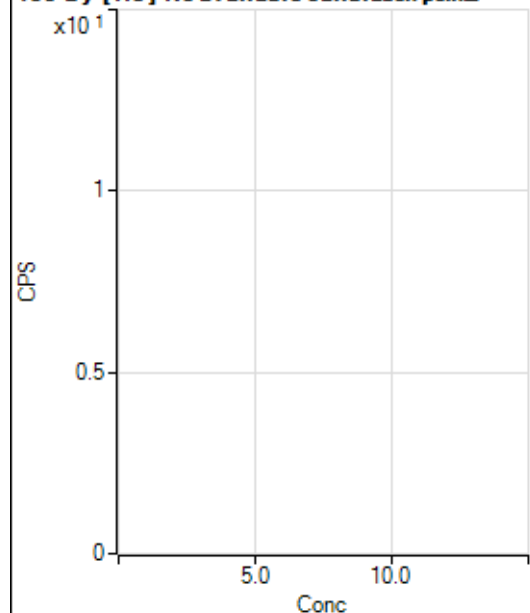
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	37.8
2	☐			15.55		P	68.9
3	☐			27.78		P	13.9
4	☐			62.22		P	3.1
5	☐			106.67		P	12.5
6	☐			175.56		P	5.5
7	☐			383.34		P	8.0
8	☐			241.11		P	2.1

150 Nd [He] No available calibration points

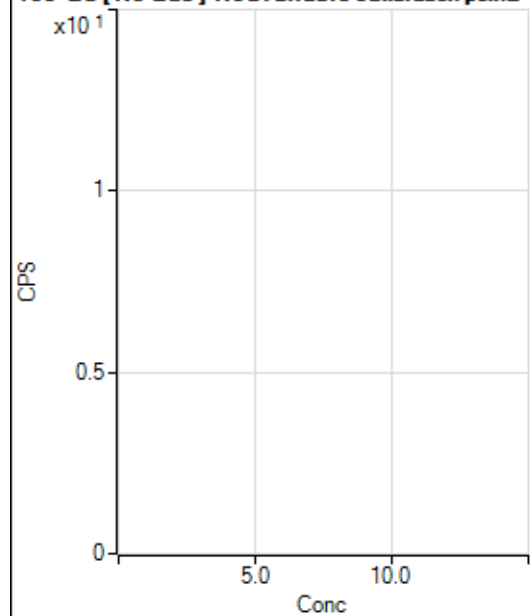
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			4.44		P	43.4
4	☐			8.89		P	94.4
5	☐			11.11		P	45.8
6	☐			11.11		P	96.4
7	☐			30.00		P	19.2
8	☐			75.56		P	16.7

156 Dy [No Gas] No available calibration points

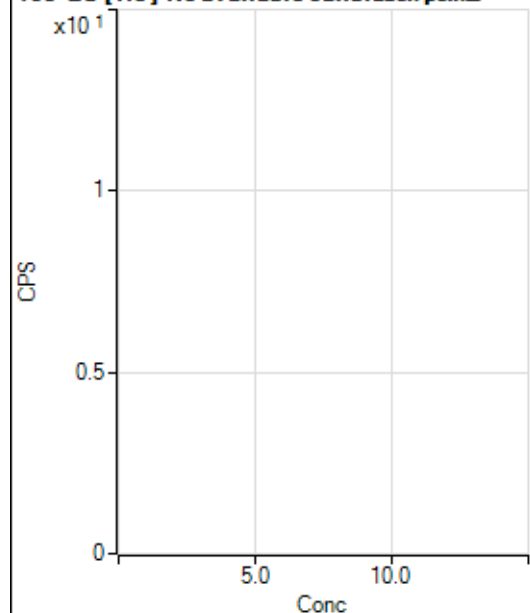
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	39.7
2	☐			10.00		P	33.3
3	☐			30.00		P	48.4
4	☐			53.33		P	33.1
5	☐			127.78		P	25.7
6	☐			197.78		P	11.5
7	☐			393.34		P	11.9
8	☐			1295.63		P	4.1

156 Dy [He] No available calibration points

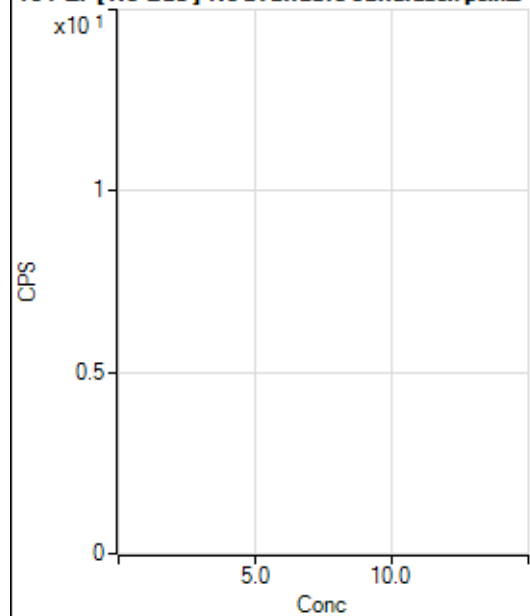
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			6.67		P	100.
3	☐			23.33		P	51.5
4	☐			30.00		P	11.1
5	☐			48.89		P	46.4
6	☐			81.11		P	19.4
7	☐			191.11		P	23.0
8	☐			640.02		P	7.2

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

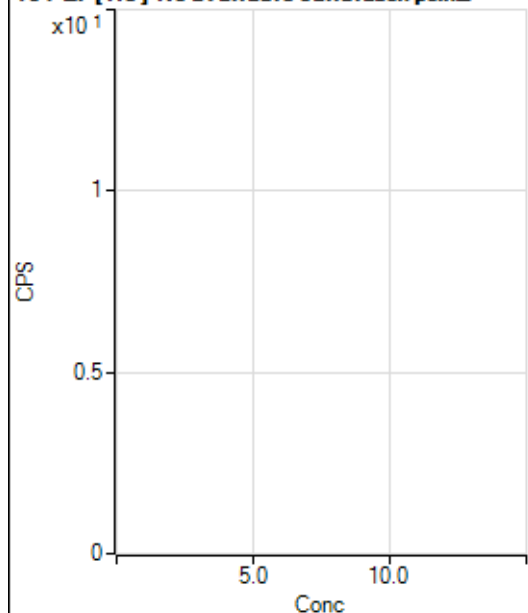
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			198.89		P	30.2
2	☐			250.01		P	10.9
3	☐			277.78		P	8.0
4	☐			235.56		P	15.7
5	☐			271.12		P	8.9
6	☐			332.23		P	13.7
7	☐			495.57		P	14.4
8	☐			1532.32		P	12.0

160 Gd [He] No available calibration points

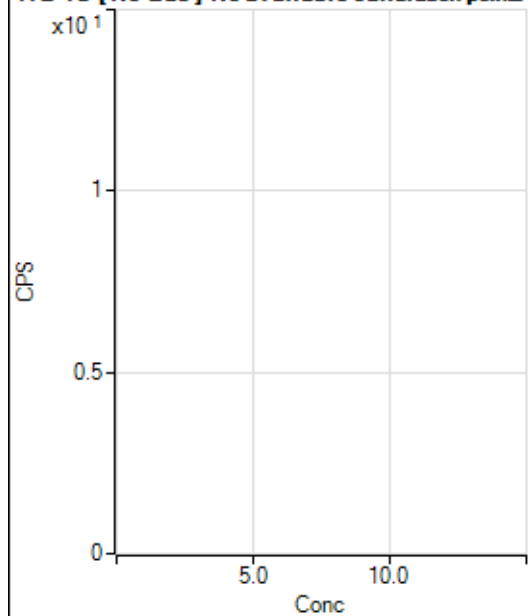
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			222.23		P	11.7
2	☐			191.11		P	14.1
3	☐			241.12		P	7.6
4	☐			208.89		P	8.0
5	☐			232.23		P	12.2
6	☐			261.12		P	1.5
7	☐			285.56		P	4.1
8	☐			903.37		P	9.2

164 Er [No Gas] No available calibration points

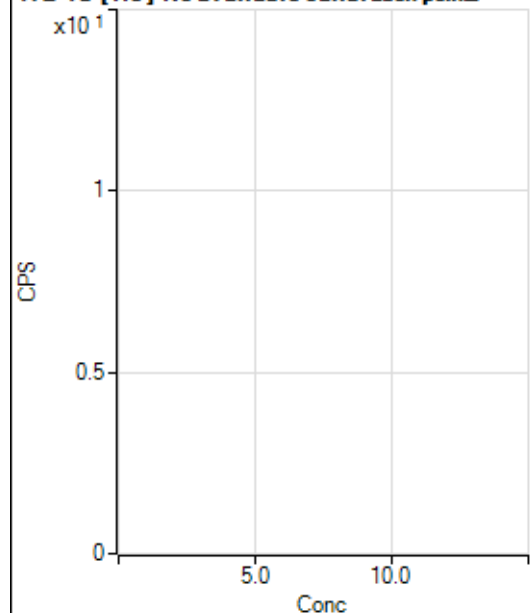
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			98.89		P	15.9
2	☐			88.89		P	17.7
3	☐			96.67		P	15.0
4	☐			98.89		P	20.6
5	☐			135.56		P	9.9
6	☐			111.11		P	27.2
7	☐			164.45		P	8.4
8	☐			255.56		P	3.0

164 Er [He] No available calibration points

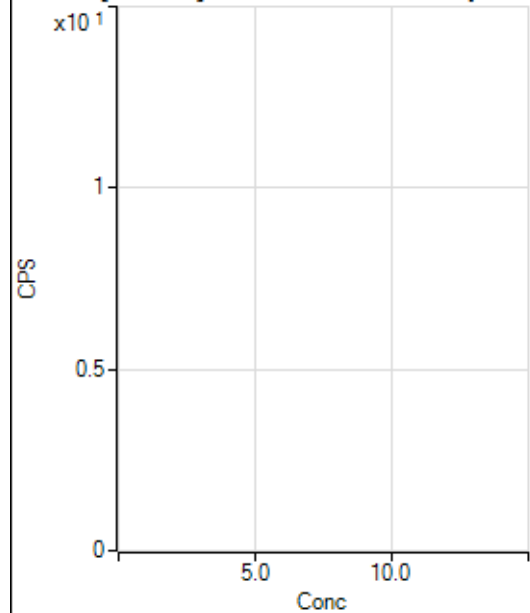
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	4.0
2	☐			53.33		P	38.0
3	☐			50.00		P	23.1
4	☐			41.11		P	24.8
5	☐			42.22		P	4.6
6	☐			36.66		P	15.7
7	☐			53.33		P	27.2
8	☐			95.56		P	23.2

172 Yb [No Gas] No available calibration points

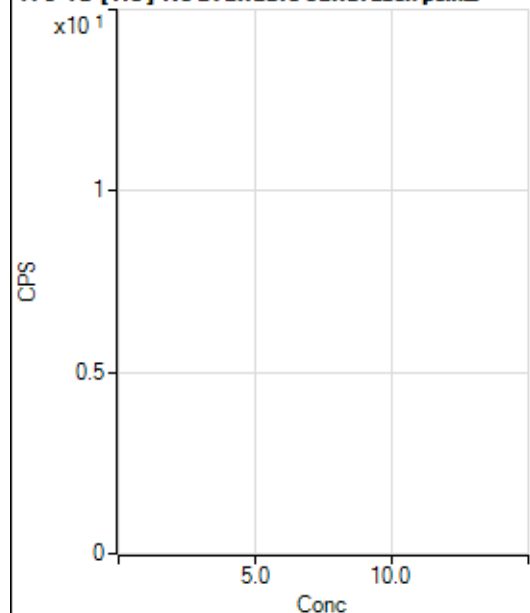
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	27.6
2	☐			77.78		P	17.8
3	☐			98.89		P	16.6
4	☐			93.33		P	25.0
5	☐			85.55		P	12.5
6	☐			104.45		P	3.7
7	☐			122.23		P	1.6
8	☐			182.23		P	12.2

172 Yb [He] No available calibration points

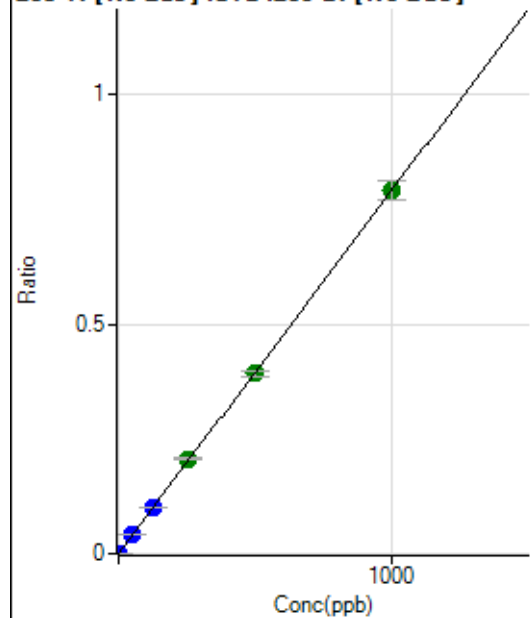
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	46.7
2	☐			47.78		P	16.1
3	☐			52.22		P	16.1
4	☐			42.22		P	4.6
5	☐			37.78		P	27.0
6	☐			35.56		P	56.5
7	☐			55.56		P	40.0
8	☐			103.34		P	6.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2802.55		P	5.7
2	☐			2704.75		P	4.0
3	☐			4029.54		P	2.5
4	☐			6157.05		P	2.2
5	☐			9604.69		P	2.0
6	☐			16184.43		P	1.4
7	☐			29419.57		P	0.3
8	☐			2194.65		P	0.7

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16847.54		P	2.1
2	☐			16884.21		P	0.3
3	☐			16819.70		P	1.7
4	☐			16869.74		P	1.3
5	☐			17767.61		P	1.1
6	☐			19856.16		P	2.0
7	☐			25172.94		P	1.9
8	☐			15769.49		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	102.22	0.0000	P	7.2
2	☐	1.000	0.868	6338.28	0.0007	P	0.6
3	☐	50.000	51.345	359731.36	0.0406	P	2.4
4	☐	125.000	125.559	880379.35	0.0992	P	1.0
5	☐	250.000	260.312	1795638.95	0.2056	A	2.4
6	☐	500.000	495.459	3402790.06	0.3914	A	2.5
7	☐	1000.000	999.556	6670035.53	0.7896	A	5.2
8	☐			7599.22	0.0010	P	26.4

$$y = 7.8996E-004 * x + 1.1428E-005$$

$$R = 0.9999$$

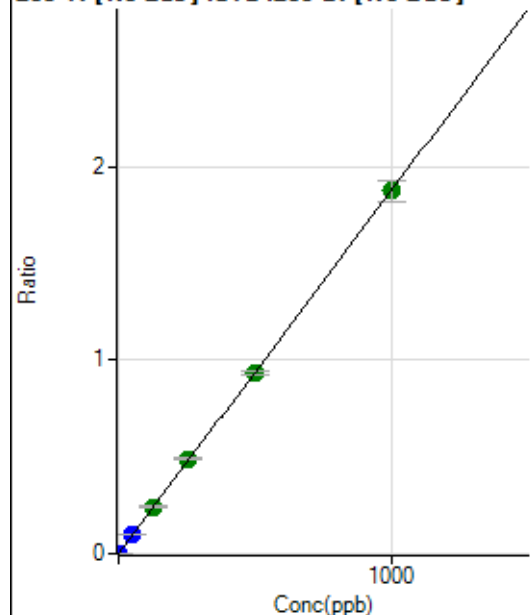
$$DL = 0.003113$$

$$BEC = 0.01447$$

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	291.12	0.0000	P	4.2
2	☐	1.000	0.885	15395.92	0.0017	P	2.2
3	☐	50.000	52.026	865782.46	0.0976	P	2.1
4	☐	125.000	129.529	2157002.17	0.2430	A	1.1
5	☐	250.000	259.843	4257021.53	0.4875	A	2.2
6	☐	500.000	496.781	8103760.79	0.9320	A	2.6
7	☐	1000.000	998.482	15822918.38	1.8733	A	5.5
8	☐			17871.82	0.0024	P	29.5

$$y = 0.0019 * x + 3.2545E-005$$

$$R = 0.9999$$

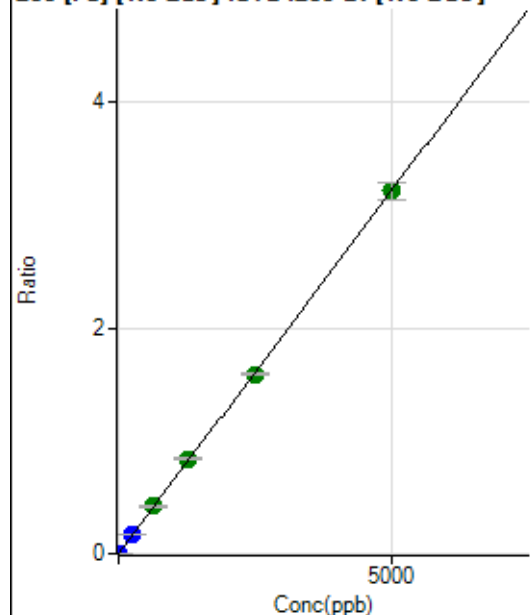
$$DL = 0.002162$$

$$BEC = 0.01735$$

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	308.89	0.0000	P	5.1
2	☐	1.000	0.925	5721.32	0.0006	P	1.6
3	☐	250.000	258.220	1472029.53	0.1660	P	1.9
4	☐	625.000	650.522	3711316.51	0.4182	A	1.1
5	☐	1250.000	1307.560	7339312.32	0.8405	A	2.5
6	☐	2500.000	2468.782	13797665.91	1.5869	A	1.1
7	☐	5000.000	4997.618	27137389.60	3.2123	A	5.1
8	☐			35064.43	0.0046	P	22.5

$$y = 6.4276E-004 * x + 3.4529E-005$$

$$R = 0.9999$$

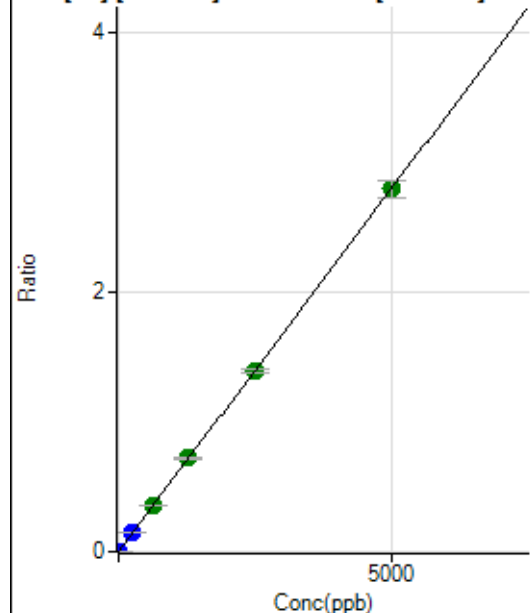
$$DL = 0.008285$$

$$BEC = 0.05372$$

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	210.01	0.0000	P	8.0
2	☐	1.000	0.964	5122.18	0.0006	P	2.8
3	☐	250.000	258.595	1283702.10	0.1448	P	2.6
4	☐	625.000	640.197	3180720.99	0.3584	A	0.7
5	☐	1250.000	1295.235	6331694.00	0.7251	A	2.2
6	☐	2500.000	2480.477	12071902.18	1.3885	A	2.5
7	☐	5000.000	4996.123	23630916.04	2.7967	A	4.7
8	☐			30706.23	0.0041	P	22.6

$$y = 5.5977\text{E-}004 * x + 2.3509\text{E-}005$$

$$R = 0.9999$$

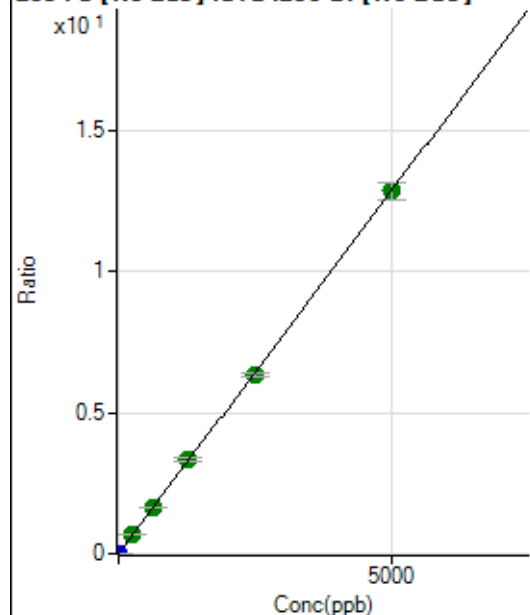
$$DL = 0.01002$$

$$BEC = 0.042$$

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	1184.48	0.0001	P	7.9
2	☐	1.000	0.952	23506.45	0.0026	P	1.7
3	☐	250.000	258.433	5905003.77	0.6659	A	1.9
4	☐	625.000	637.827	14585052.53	1.6433	A	1.0
5	☐	1250.000	1299.097	29225743.45	3.3470	A	2.3
6	☐	2500.000	2476.181	55463736.26	6.3794	A	2.1
7	☐	5000.000	4997.610	108789984.7	12.8753	A	4.5
8	☐			140140.60	0.0186	P	21.6

$$y = 0.0026 * x + 1.3256\text{E-}004$$

$$R = 0.9999$$

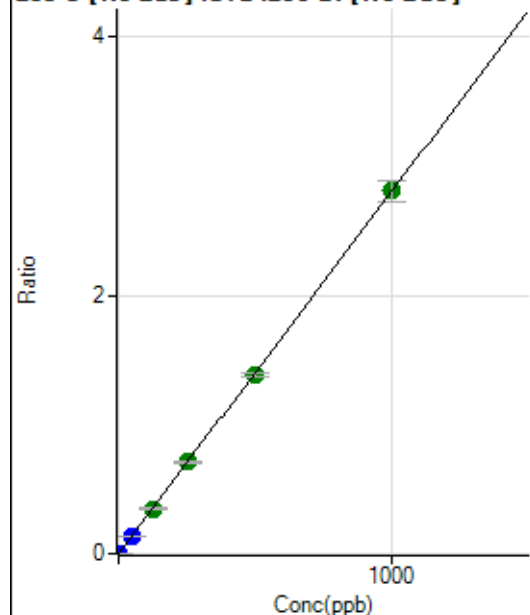
$$DL = 0.01223$$

$$BEC = 0.05146$$

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	93.33	0.0000	P	14.6
2	☐	1.000	0.822	21021.98	0.0023	P	1.3
3	☐	50.000	48.841	1212857.19	0.1368	P	3.1
4	☐	125.000	124.566	3096298.91	0.3489	A	0.8
5	☐	250.000	253.428	6197973.45	0.7098	A	2.7
6	☐	500.000	494.186	12032751.91	1.3840	A	2.5
7	☐	1000.000	1002.162	23705019.37	2.8067	A	5.7
8	☐			21594.37	0.0029	P	28.3

$$y = 0.0028 * x + 1.0422E-005$$

$$R = 1.0000$$

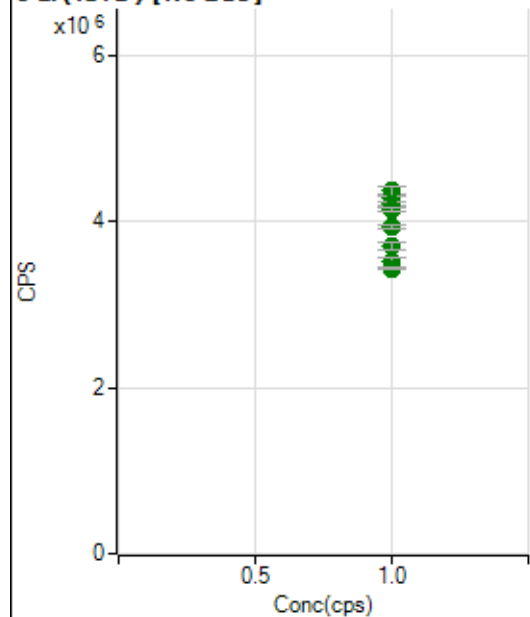
$$DL = 0.001631$$

$$BEC = 0.003721$$

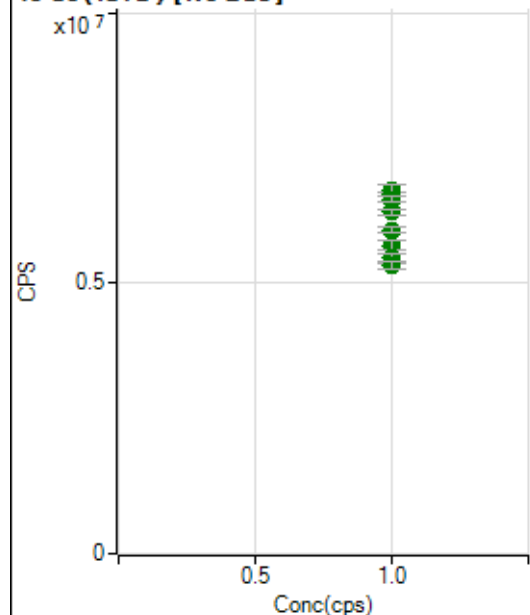
Weight: <None>

Min Conc: 0

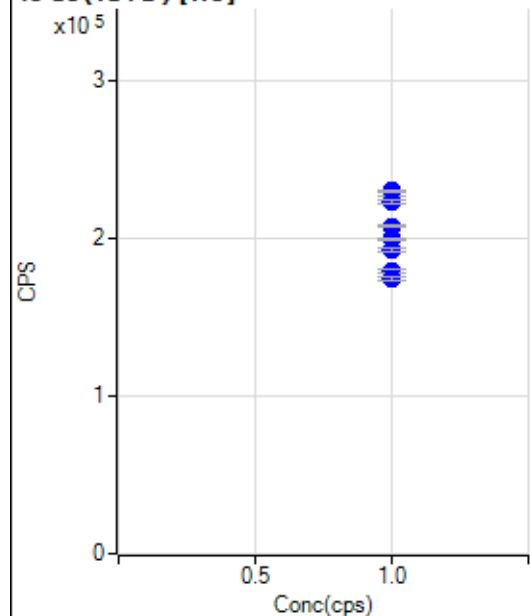
6 Li (ISTD) [No Gas]



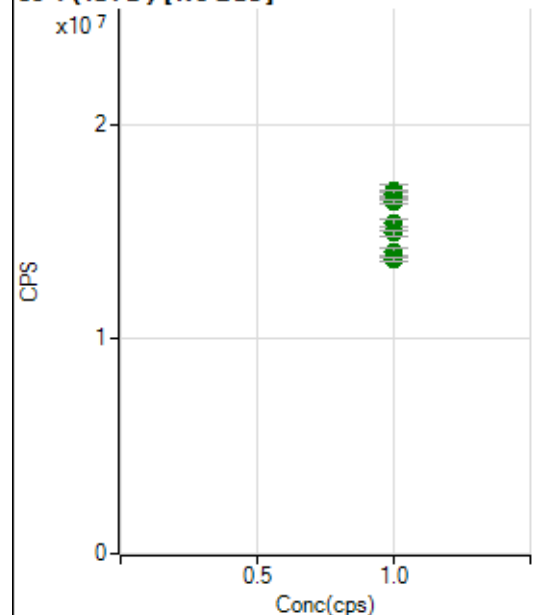
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4288567.27		A	2.2
2	☐	1.000		4374274.58		A	2.5
3	☐	1.000		4224001.64		A	1.1
4	☐	1.000		4152240.30		A	1.1
5	☐	1.000		3947869.73		A	1.1
6	☐	1.000		3700662.92		A	2.5
7	☐	1.000		3517281.07		A	3.6
8	☐	1.000		3436362.67		A	0.8

45 Sc (ISTD) [No Gas]

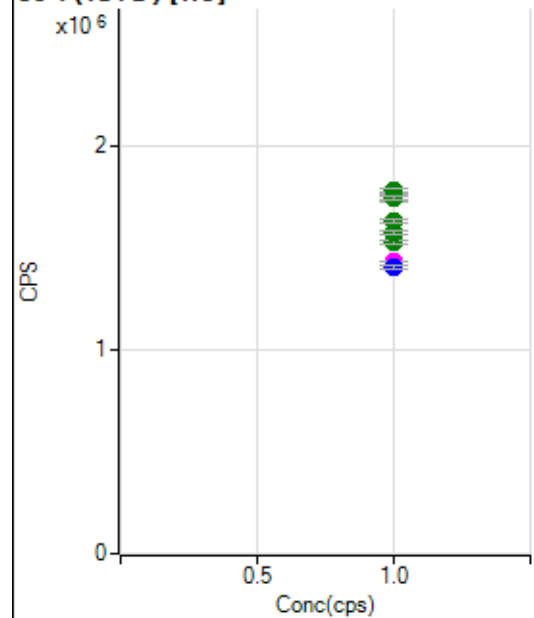
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6654660.94		A	1.4
2	☐	1.000		6707263.16		A	3.1
3	☐	1.000		6557021.64		A	1.2
4	☐	1.000		6319044.35		A	1.9
5	☐	1.000		5987151.51		A	1.4
6	☐	1.000		5695294.99		A	3.3
7	☐	1.000		5461350.34		A	3.5
8	☐	1.000		5326607.84		A	2.9

45 Sc (ISTD) [He]

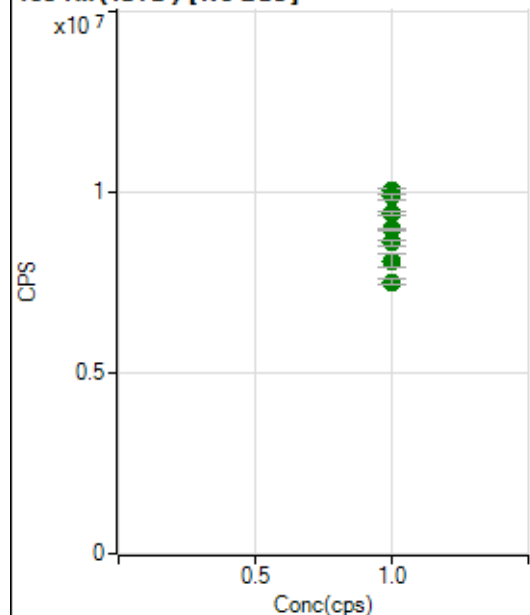
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		224609.81		P	2.4
2	☐	1.000		230383.68		P	0.8
3	☐	1.000		223721.12		P	0.8
4	☐	1.000		208119.03		P	0.9
5	☐	1.000		193314.11		P	1.4
6	☐	1.000		179511.88		P	1.4
7	☐	1.000		174696.14		P	0.8
8	☐	1.000		199860.59		P	0.9

89 Y (ISTD) [No Gas]

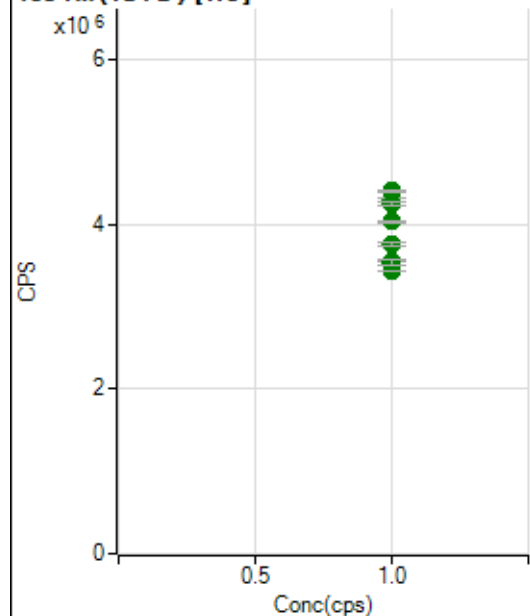
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16920383.08		A	3.1
2	☐	1.000		16867736.14		A	0.2
3	☐	1.000		16790287.25		A	2.2
4	☐	1.000		16406638.51		A	1.2
5	☐	1.000		15434932.55		A	2.2
6	☐	1.000		14965123.53		A	1.7
7	☐	1.000		14051793.40		A	2.6
8	☐	1.000		13713072.29		A	1.4

89 Y (ISTD) [He]

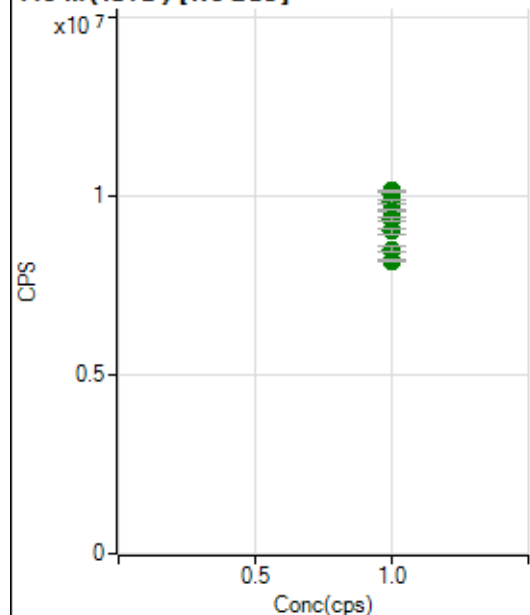
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1746872.13		A	3.1
2	☐	1.000		1776890.88		A	1.6
3	☐	1.000		1741297.42		A	0.9
4	☐	1.000		1629908.03		A	0.8
5	☐	1.000		1527666.42		A	0.9
6	☐	1.000		1431896.00		M	0.6
7	☐	1.000		1406464.23		P	1.1
8	☐	1.000		1572123.15		A	1.0

103 Rh (ISTD) [No Gas]

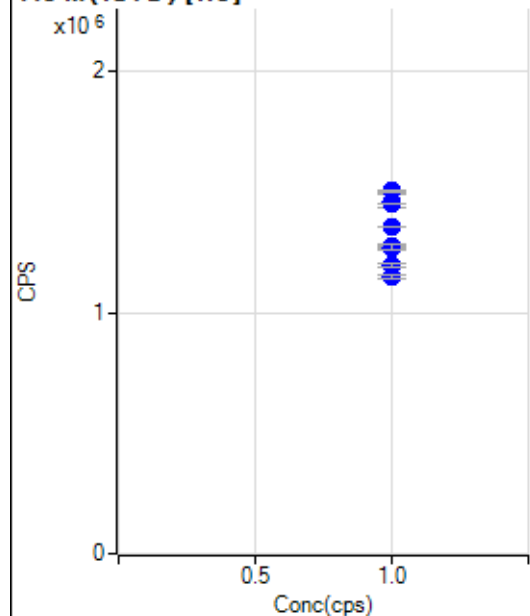
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9935786.80		A	3.4
2	☐	1.000		10039794.64		A	1.7
3	☐	1.000		9872839.85		A	1.7
4	☐	1.000		9406212.22		A	1.4
5	☐	1.000		8969070.91		A	1.1
6	☐	1.000		8601625.57		A	2.1
7	☐	1.000		8106391.82		A	4.8
8	☐	1.000		7522588.71		A	1.9

103 Rh (ISTD) [He]

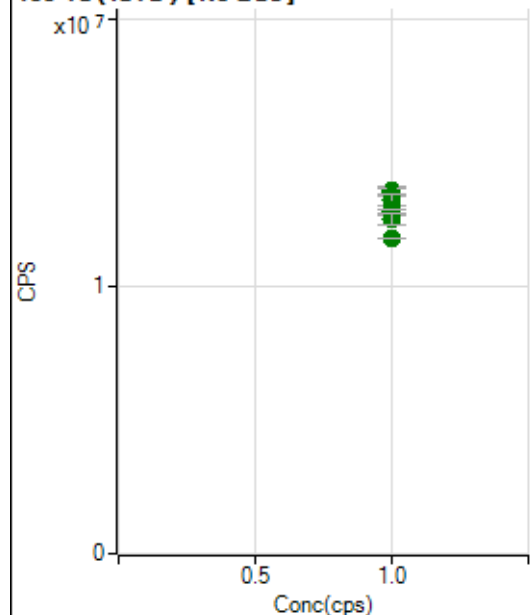
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4299476.50		A	1.6
2	☐	1.000		4407883.06		A	0.4
3	☐	1.000		4247324.07		A	1.3
4	☐	1.000		4034145.70		A	0.7
5	☐	1.000		3756924.60		A	1.6
6	☐	1.000		3533792.93		A	1.0
7	☐	1.000		3436629.08		A	0.1
8	☐	1.000		3541447.55		A	2.4

115 In (ISTD) [No Gas]

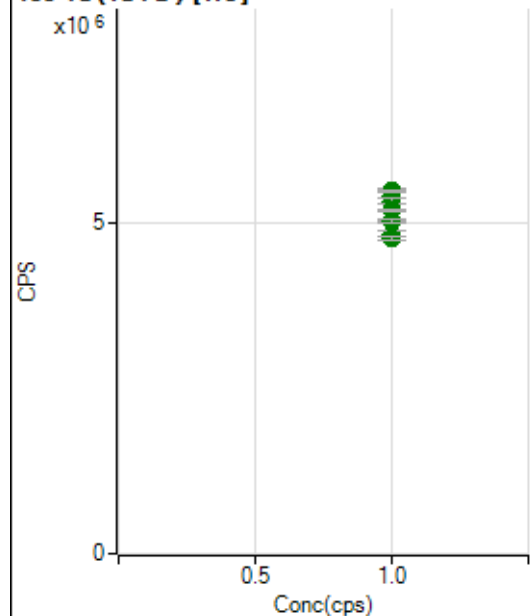
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10013395.18		A	2.5
2	☐	1.000		10126668.72		A	0.7
3	☐	1.000		9833938.70		A	0.8
4	☐	1.000		9571694.06		A	0.8
5	☐	1.000		9357767.85		A	1.1
6	☐	1.000		8990633.95		A	1.3
7	☐	1.000		8505313.41		A	2.2
8	☐	1.000		8184916.40		A	1.0

115 In (ISTD) [He]

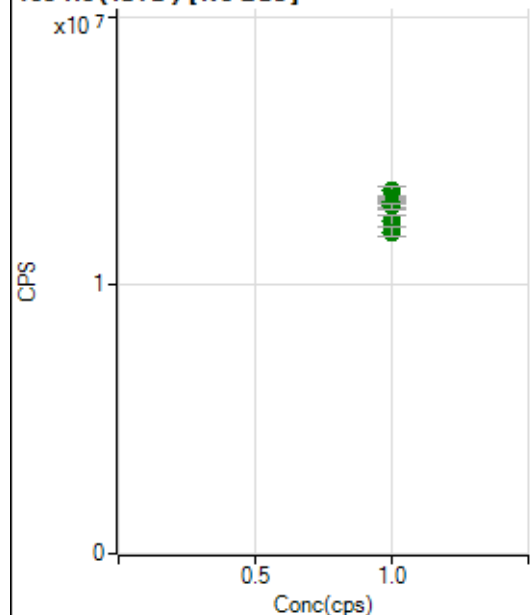
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1462912.17		P	3.4
2	☐	1.000		1504348.76		P	0.2
3	☐	1.000		1450775.61		P	0.3
4	☐	1.000		1357483.19		P	0.3
5	☐	1.000		1274068.05		P	0.8
6	☐	1.000		1196004.60		P	1.6
7	☐	1.000		1146070.41		P	1.3
8	☐	1.000		1270752.22		P	1.7

159 Tb (ISTD) [No Gas]

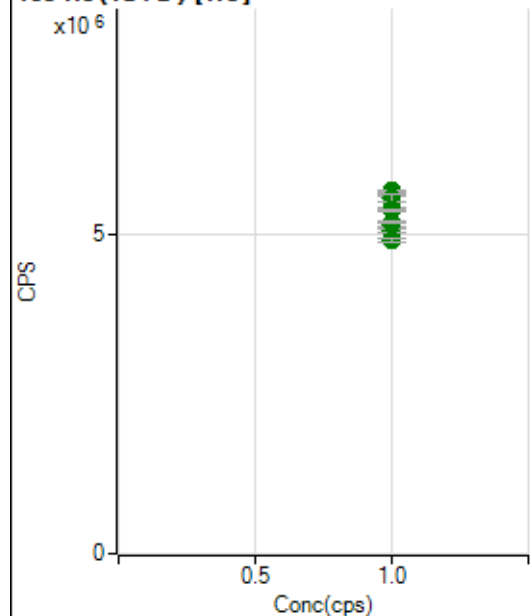
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13578370.91		A	2.1
2	☐	1.000		13515330.22		A	1.9
3	☐	1.000		13410107.44		A	0.6
4	☐	1.000		13238985.36		A	2.9
5	☐	1.000		12875006.20		A	0.2
6	☐	1.000		12780711.62		A	2.2
7	☐	1.000		12502517.18		A	3.4
8	☐	1.000		11797285.24		A	0.5

159 Tb (ISTD) [He]

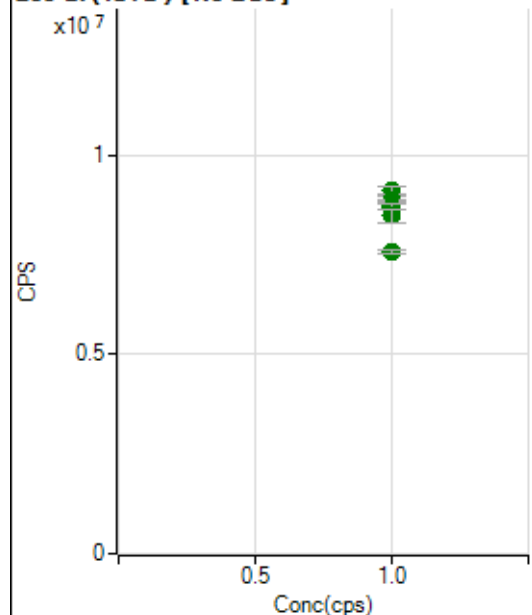
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5403137.94		A	4.3
2	☐	1.000		5490633.67		A	0.3
3	☐	1.000		5336871.27		A	1.6
4	☐	1.000		5198620.10		A	0.4
5	☐	1.000		5026371.97		A	0.5
6	☐	1.000		4844324.34		A	1.3
7	☐	1.000		4762710.69		A	1.1
8	☐	1.000		5034644.75		A	1.6

165 Ho (ISTD) [No Gas]

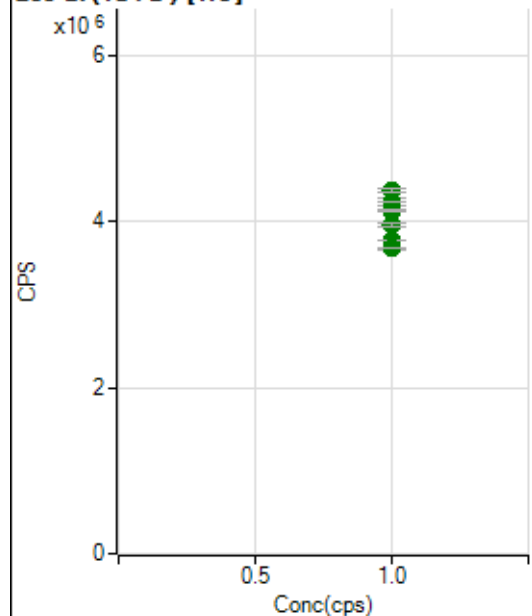
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13210755.63		A	0.8
2	☐	1.000		13510416.74		A	2.5
3	☐	1.000		13214422.72		A	1.6
4	☐	1.000		13136795.22		A	1.6
5	☐	1.000		13046544.53		A	2.1
6	☐	1.000		12926485.22		A	1.4
7	☐	1.000		12413765.37		A	3.4
8	☐	1.000		11988437.46		A	3.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5502975.44		A	3.5
2	☐	1.000		5678566.51		A	0.9
3	☐	1.000		5568032.42		A	2.0
4	☐	1.000		5383057.77		A	0.7
5	☐	1.000		5144780.20		A	1.5
6	☐	1.000		5055556.14		A	0.9
7	☐	1.000		4909969.06		A	1.3
8	☐	1.000		5189906.28		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8940812.44		A	1.7
2	☐	1.000		9092732.50		A	2.2
3	☐	1.000		8869357.30		A	1.9
4	☐	1.000		8875096.88		A	0.2
5	☐	1.000		8735085.84		A	2.5
6	☐	1.000		8695625.22		A	1.3
7	☐	1.000		8459194.11		A	4.1
8	☐	1.000		7559379.75		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4242573.86		A	2.3
2	☐	1.000		4371893.79		A	1.1
3	☐	1.000		4234768.17		A	0.2
4	☐	1.000		4130777.51		A	0.8
5	☐	1.000		3962337.09		A	1.2
6	☐	1.000		3775834.56		A	0.5
7	☐	1.000		3676981.89		A	0.8
8	☐	1.000		3678026.65		A	0.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8122823-MS.b
Acq. Date-Time 2023-12-28 07:35:52
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		14600	145995.78			1.005	5.000
24		112978	1129784.62			1.727	5.000
25		14940	149402.87			1.290	5.000
26		17832	178315.54			1.134	5.000
59		114530	1145295.92			1.082	5.000
113		13663	136629.19			1.087	5.000
115		168934	1689343.41			2.071	5.000
206		46607	466067.74			1.649	5.000
207		41562	415620.71			1.793	5.000
208		102013	1020125.34			0.595	5.000
220		0	1.40			46.566	

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

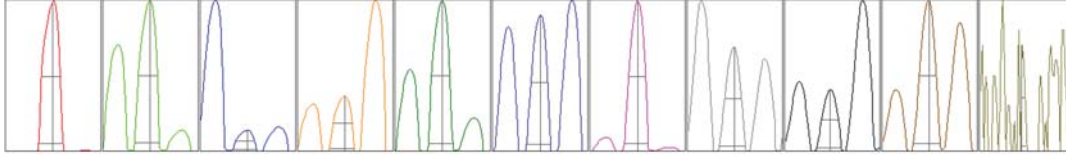
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14414	14751	14738	14594	14501
24	111560	115810	114239	111763	111521
25	14630	15162	14974	14957	14978
26	17522	18051	17967	17814	17803
59	113403	115998	115193	114969	113086
113	13588	13903	13695	13518	13611
115	169111	174405	167208	164932	169015
206	45776	47401	46381	46046	47429
207	40645	42265	41445	41088	42367
208	101395	101532	102254	101974	102909

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	26468.95	9.00	8.90 - 9.10	
24	198679.48	24.00	23.90 - 24.10	
25	26737.61	25.00	24.90 - 25.10	
26	31379.64	26.00	25.90 - 26.10	
59	212395.11	59.00	58.90 - 59.10	
113	26929.68	113.05	112.90 - 113.10	
115	332124.80	115.05	114.90 - 115.10	
206	89236.36	206.00	205.90 - 206.10	
207	79386.00	206.95	206.90 - 207.10	
208	192527.33	208.00	207.90 - 208.10	
220	0.35	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.774	0.900	
24	0.60	0.784	0.900	
25	0.59	0.744	0.900	
26	0.60	0.783	0.900	
59	0.57	0.774	0.900	
113	0.52	0.761	0.900	
115	0.52	0.755	0.900	
206	0.53	0.820	0.900	
207	0.53	0.780	0.900	
208	0.53	0.849	0.900	
220	0.12	0.192		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.9 V	Deflect	13.8 V
Extract 2	-240.0 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	140 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.1 mm
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EM

Discriminator	4.6 mV	Analog HV	2305 V	Pulse HV	1658 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		24772	247724.27			0.330	
89		17528	175276.92			2.041	
205		32192	321924.95			0.518	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	24845	24695	24673	24820	24829
89	18133	17350	17564	17345	17246
205	32232	32088	32180	32450	32012

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.9 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.1 mm
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EM

Discriminator	4.6 mV	Analog HV	2305 V	Pulse HV	1658 V
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