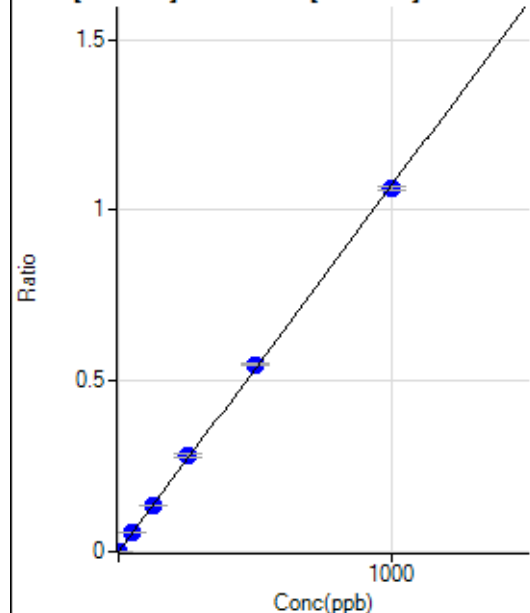


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8050720 MS.b\
Analysis File: P8050720 MS.batch.bin
DA Date-Time: 2020-05-10 21:44:26
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-05-07 14:01:35
2	006CAL.S.d	S02	2020-05-07 14:04:46
3	008CAL.S.d	S03	2020-05-07 14:11:07
4	009CAL.S.d	S04	2020-05-07 14:14:15
5	010CAL.S.d	S05	2020-05-07 14:17:23
6	011CAL.S.d	S06	2020-05-07 14:20:22
7	012CAL.S.d	S07	2020-05-07 14:23:22
8	013CAL.S.d	S08	2020-05-07 14:26:21

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17.33	0.0000	P	28.2
2	☐	1.000	0.981	676.55	0.0011	P	6.1
3	☐	50.000	50.535	33381.58	0.0542	P	1.2
4	☐	125.000	127.136	84485.41	0.1363	P	0.6
5	☐	250.000	264.449	172242.72	0.2835	P	4.4
6	☐	500.000	510.052	343137.28	0.5468	P	1.1
7	☐	1000.000	991.068	658019.94	1.0625	P	0.9
8	☐			1197.15	0.0019	P	4.0

$$y = 0.0011 * x + 2.7944E-005$$

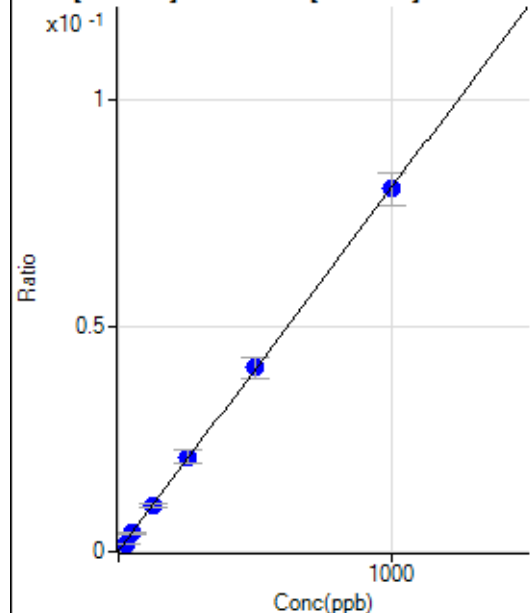
$$R = 0.9998$$

$$DL = 0.02206$$

$$BEC = 0.02607$$

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	112.65	0.0002	P	13.8
2	☐	25.000	20.242	1135.82	0.0018	P	10.3
3	☐	50.000	49.377	2561.73	0.0042	P	7.9
4	☐	125.000	124.145	6311.47	0.0102	P	10.4
5	☐	250.000	257.938	12705.68	0.0210	P	14.2
6	☐	500.000	503.385	25572.57	0.0407	P	10.6
7	☐	1000.000	996.580	49799.40	0.0804	P	9.3
8	☐			10743.82	0.0174	P	9.6

$$y = 8.0526E-005 * x + 1.8178E-004$$

$$R = 0.9999$$

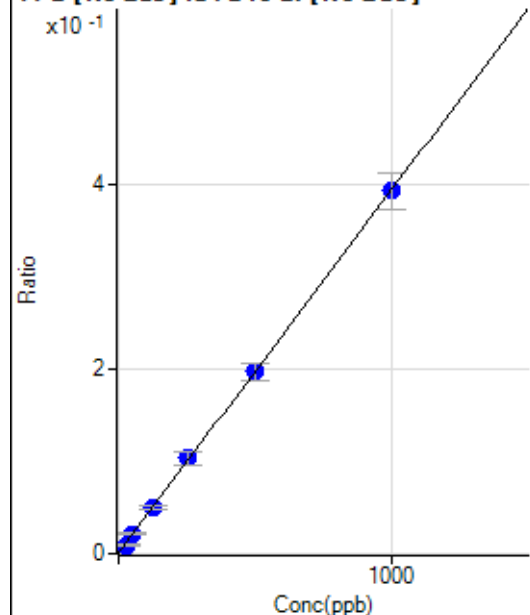
$$DL = 0.9356$$

$$BEC = 2.257$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	581.90	0.0009	P	3.3
2	☐	25.000	20.222	5569.98	0.0089	P	15.6
3	☐	50.000	51.020	12928.49	0.0210	P	9.5
4	☐	125.000	124.690	30957.81	0.0499	P	9.6
5	☐	250.000	260.030	62508.91	0.1031	P	14.2
6	☐	500.000	500.587	124086.68	0.1976	P	9.5
7	☐	1000.000	997.306	243145.07	0.3927	P	10.1
8	☐			51561.37	0.0834	P	11.1

$$y = 3.9284\text{E-}004 * x + 9.3967\text{E-}004$$

$$R = 0.9999$$

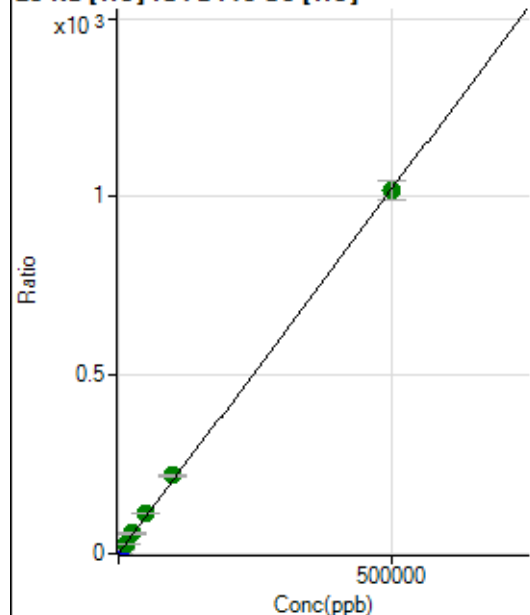
$$DL = 0.2336$$

$$BEC = 2.392$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21196.45	0.4676	P	1.9
2	☐	500.000	510.493	70428.54	1.5088	P	2.0
3	☐	5000.000	5414.368	528861.68	11.5102	P	1.7
4	☐	12500.000	13903.127	1303884.27	28.8229	A	2.0
5	☐	25000.000	27608.955	2592904.55	56.7758	A	1.8
6	☐	50000.000	54264.656	4956880.62	111.1398	A	1.3
7	☐	100000.00	106893.28	9413583.80	218.4753	A	1.2
8	☐	500000.00	498025.19	42761351.65	1,016.184	A	5.3

$$y = 0.0020 * x + 0.4676$$

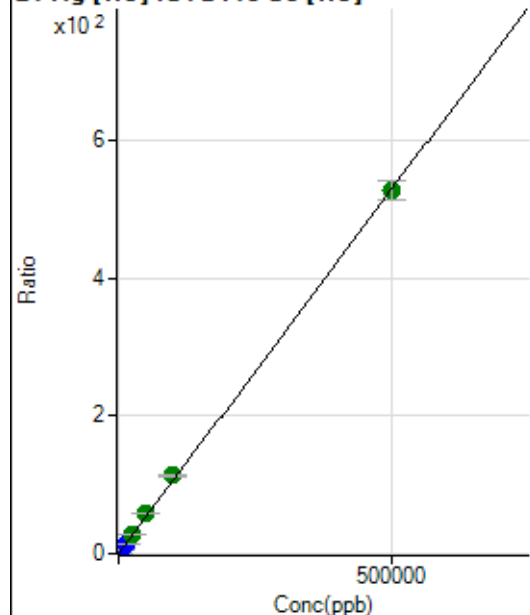
$$R = 0.9999$$

$$DL = 12.73$$

$$BEC = 229.3$$

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	188.90	0.0042	P	24.3
2	☐	500.000	523.247	26068.26	0.5586	P	4.2
3	☐	5000.000	5386.905	262437.57	5.7117	P	0.6
4	☐	12500.000	13959.777	669142.53	14.7948	P	2.8
5	☐	25000.000	27464.264	1329392.07	29.1029	A	1.8
6	☐	50000.000	54479.546	2574601.84	57.7260	A	1.2
7	☐	100000.00	106988.45	4884797.16	113.3599	A	0.7
8	☐	500000.00	497990.75	22201872.89	527.6323	A	5.4

$$y = 0.0011 * x + 0.0042$$

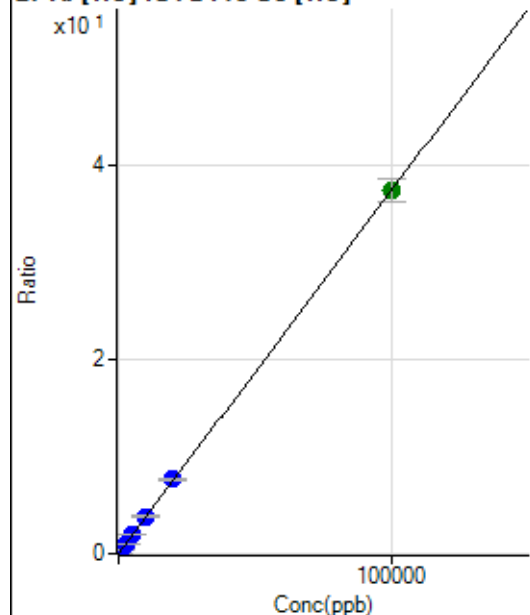
$$R = 0.9999$$

$$DL = 2.87$$

$$BEC = 3.944$$

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	309.28	0.0068	P	12.1
2	☐	20.000	19.472	658.56	0.0141	P	1.3
3	☐	1000.000	1018.968	17821.37	0.3879	P	0.8
4	☐	2500.000	2600.658	44288.02	0.9793	P	3.4
5	☐	5000.000	5201.373	89143.75	1.9518	P	0.8
6	☐	10000.000	10268.924	171572.76	3.8468	P	0.8
7	☐	20000.000	20461.840	329971.79	7.6584	P	1.6
8	☐	100000.00	99867.965	1571266.12	37.3516	A	6.2

$$y = 3.7394E-004 * x + 0.0068$$

$$R = 1.0000$$

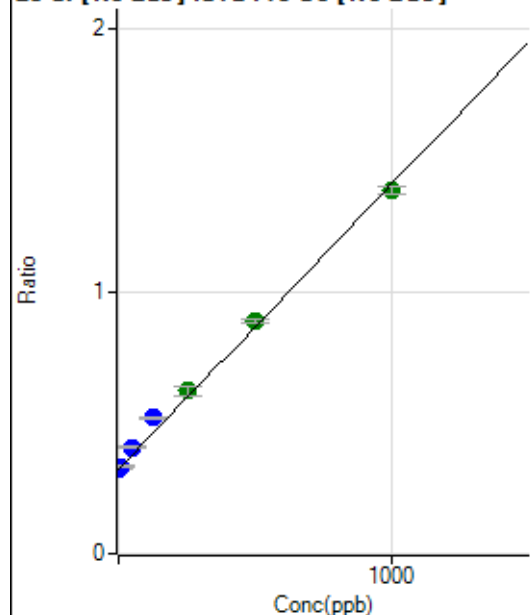
$$DL = 6.622$$

$$BEC = 18.26$$

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	474683.87	0.3218	P	0.9
2	☐	10.000	9.390	499068.56	0.3320	P	2.0
3	☐	50.000	76.076	599499.81	0.4045	P	2.4
4	☐	125.000	180.727	765403.75	0.5183	P	1.6
5	☐	250.000	273.807	898967.18	0.6195	A	5.7
6	☐	500.000	519.389	1309352.78	0.8865	A	1.8
7	☐	1000.000	976.090	2008745.57	1.3830	A	2.3
8	☐			906983.42	0.6263	P	7.8

$$y = 0.0011 * x + 0.3218$$

$$R = 0.9981$$

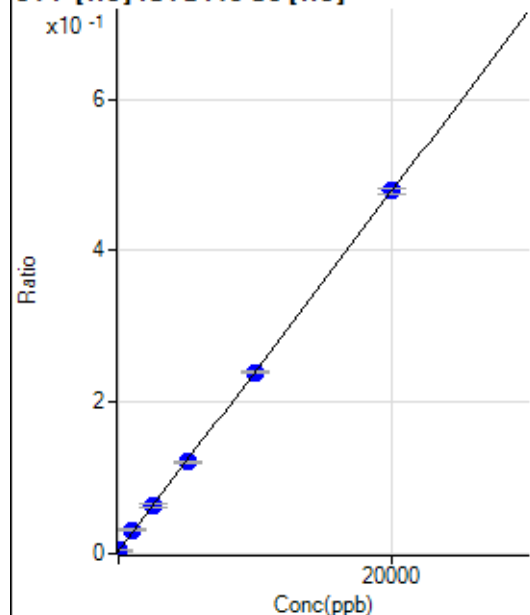
$$DL = 7.996$$

$$BEC = 296$$

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	-32.108	116.67	0.0026	P	26.7
2	☐	0.000	32.108	191.67	0.0041	P	12.5
3	☐	1000.000	1181.022	1441.78	0.0314	P	5.6
4	☐	2500.000	2516.633	2850.35	0.0631	P	9.5
5	☐	5000.000	4942.388	5509.52	0.1207	P	3.7
6	☐	10000.000	9947.793	10682.02	0.2395	P	1.2
7	☐	20000.000	20029.376	20631.79	0.4788	P	1.3
8	☐			188.89	0.0045	P	24.2

$$y = 2.3740E-005 * x + 0.0033$$

$$R = 0.9999$$

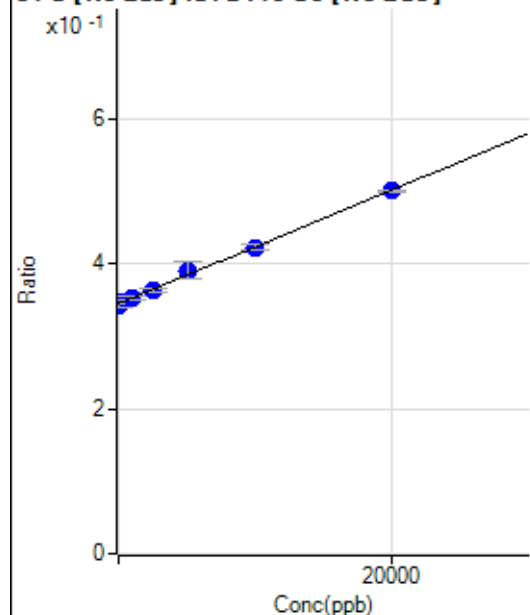
$$DL = 75.8$$

$$BEC = 140.8$$

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	384.427	513223.56	0.3480	P	0.2
2	☐	0.000	-384.427	513921.80	0.3419	P	2.0
3	☐	1000.000	939.625	522168.44	0.3523	P	1.2
4	☐	2500.000	2413.062	537286.39	0.3638	P	1.6
5	☐	5000.000	5878.141	567311.02	0.3910	P	5.9
6	☐	10000.000	9921.894	624206.44	0.4227	P	2.3
7	☐	20000.000	19833.404	726739.98	0.5003	P	0.7
8	☐			488846.75	0.3374	P	1.8

$$y = 7.8320\text{E-}006 * x + 0.3449$$

$$R = 0.9983$$

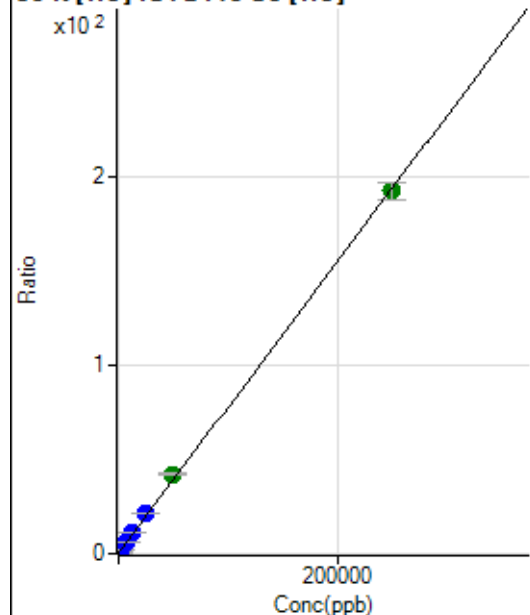
$$DL = 1424$$

$$BEC = 4.404\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16771.24	0.3701	P	3.0
2	☐	500.000	514.825	35872.97	0.7685	P	1.9
3	☐	2500.000	2672.584	112044.41	2.4385	P	0.9
4	☐	6250.000	6943.810	259804.15	5.7443	P	2.8
5	☐	12500.000	13672.833	500217.99	10.9522	P	0.9
6	☐	25000.000	27408.631	962646.85	21.5831	P	0.3
7	☐	50000.000	54084.619	1819392.53	42.2292	A	2.0
8	☐	250000.00	248864.47	8121293.76	192.9803	A	5.1

$$y = 7.7396\text{E-}004 * x + 0.3701$$

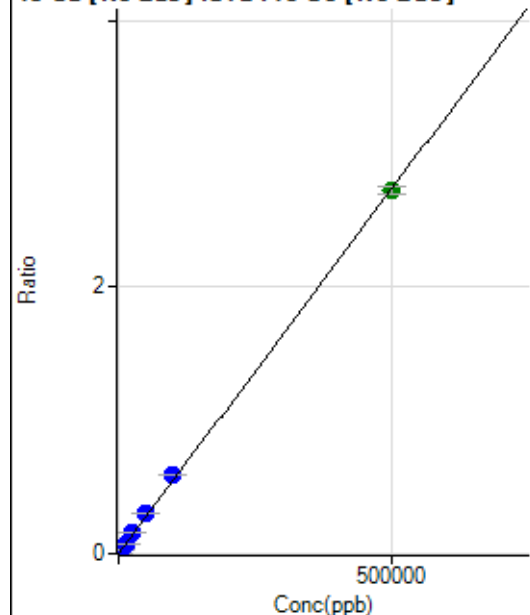
$$R = 0.9998$$

$$DL = 42.58$$

$$BEC = 478.1$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	547.25	0.0004	P	16.8
2	☐	500.000	520.643	4842.62	0.0032	P	1.5
3	☐	5000.000	5425.561	44572.49	0.0301	P	1.1
4	☐	12500.000	13839.133	112429.16	0.0761	P	1.3
5	☐	25000.000	28716.895	228754.39	0.1576	P	4.6
6	☐	50000.000	55677.863	450761.63	0.3052	P	1.6
7	☐	100000.00	108177.49	860865.76	0.5926	P	0.9
8	☐	500000.00	497573.11	3947131.25	2.7243	A	1.9

$$y = 5.4745\text{E-}006 * x + 3.7094\text{E-}004$$

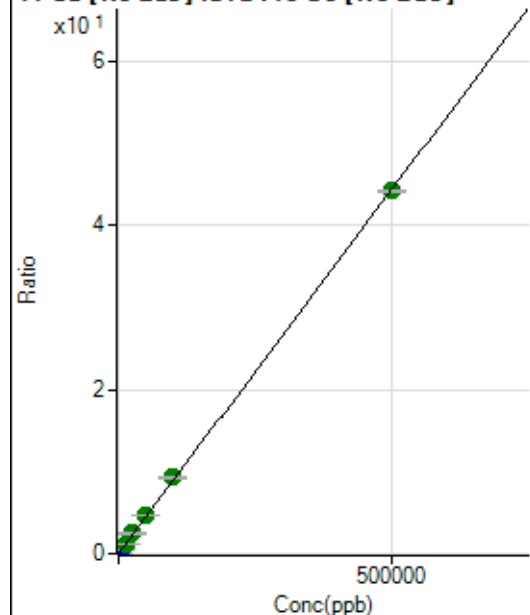
$$R = 0.9998$$

$$DL = 34.16$$

$$BEC = 67.76$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20149.93	0.0137	P	3.8
2	☐	500.000	513.075	88945.53	0.0592	P	2.9
3	☐	5000.000	5419.663	732875.83	0.4945	P	1.7
4	☐	12500.000	13397.916	1775638.98	1.2024	A	1.0
5	☐	25000.000	27799.964	3600475.62	2.4801	A	4.4
6	☐	50000.000	53523.345	7034188.59	4.7624	A	1.6
7	☐	100000.00	104313.14	13464094.92	9.2686	A	0.9
8	☐	500000.00	498618.38	64120023.12	44.2524	A	0.9

$$y = 8.8723\text{E-}005 * x + 0.0137$$

$$R = 0.9999$$

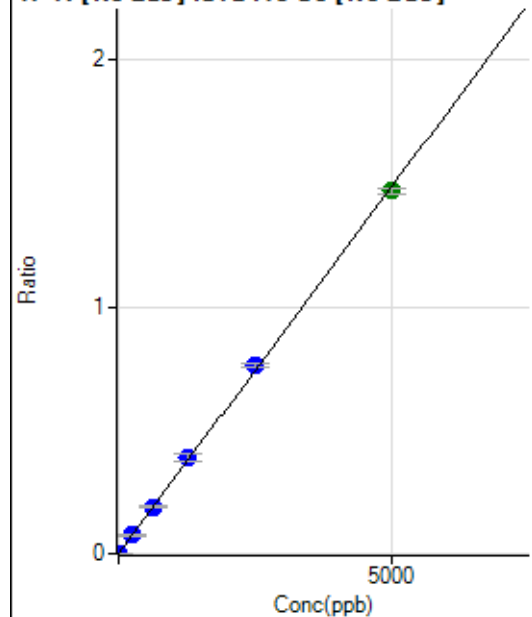
$$DL = 17.5$$

$$BEC = 154$$

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	386.13	0.0003	P	6.3
2	☐	5.000	5.046	2647.54	0.0018	P	4.2
3	☐	250.000	250.743	110838.12	0.0748	P	2.8
4	☐	625.000	636.251	279657.80	0.1894	P	2.1
5	☐	1250.000	1311.859	566135.85	0.3902	P	6.2
6	☐	2500.000	2571.998	1129613.05	0.7648	P	1.9
7	☐	5000.000	4947.093	2136417.02	1.4708	A	1.6
8	☐			4072.90	0.0028	P	8.3

$$y = 2.9726E-004 * x + 2.6176E-004$$

$$R = 0.9998$$

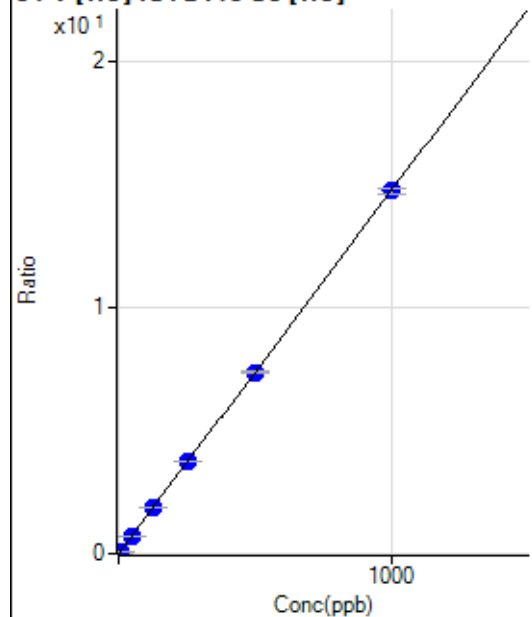
$$DL = 0.1675$$

$$BEC = 0.8806$$

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	16.67	0.0004	P	40.4
2	☐	5.000	4.949	3429.33	0.0735	P	4.3
3	☐	50.000	48.723	33082.70	0.7200	P	2.1
4	☐	125.000	126.584	84579.87	1.8700	P	2.8
5	☐	250.000	254.998	172026.12	3.7667	P	1.1
6	☐	500.000	499.766	329239.89	7.3819	P	1.0
7	☐	1000.000	998.734	635582.08	14.7517	P	1.9
8	☐			1348.97	0.0321	P	9.1

$$y = 0.0148 * x + 3.6856E-004$$

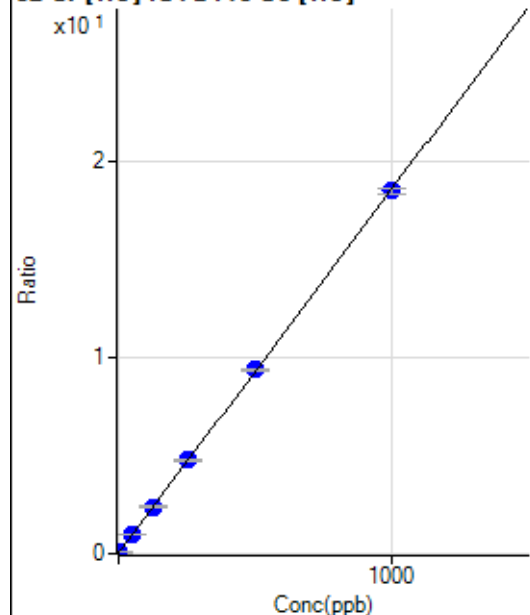
$$R = 1.0000$$

$$DL = 0.03025$$

$$BEC = 0.02495$$

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	995.60	0.0220	P	11.9
2	☐	2.000	1.983	2745.85	0.0588	P	2.7
3	☐	50.000	49.680	43414.66	0.9449	P	1.4
4	☐	125.000	126.327	107104.68	2.3687	P	4.0
5	☐	250.000	255.732	217949.81	4.7726	P	1.6
6	☐	500.000	504.573	419043.28	9.3952	P	0.5
7	☐	1000.000	996.131	798240.98	18.5267	P	1.6
8	☐			21974.70	0.5223	P	6.0

$$y = 0.0186 * x + 0.0220$$

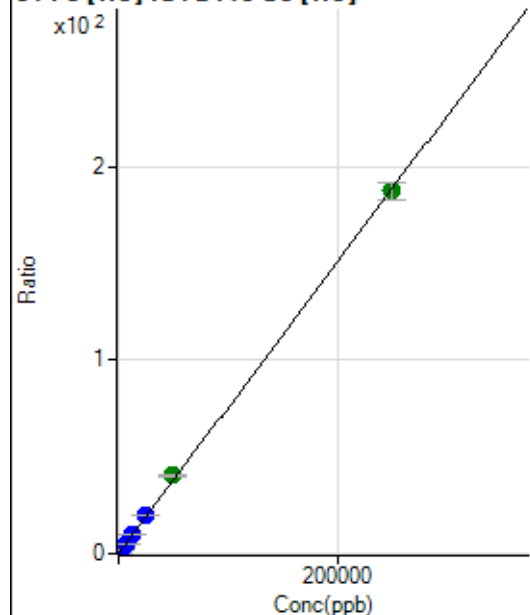
$$R = 1.0000$$

$$DL = 0.4243$$

$$BEC = 1.184$$

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	351.87	0.0078	P	12.6
2	☐	50.000	54.900	2292.82	0.0491	P	6.6
3	☐	2500.000	2611.085	90754.70	1.9752	P	0.5
4	☐	6250.000	6738.487	229956.86	5.0851	P	3.5
5	☐	12500.000	13519.920	465598.57	10.1948	P	1.0
6	☐	25000.000	26592.091	894012.75	20.0444	P	0.6
7	☐	50000.000	53571.523	1739436.08	40.3729	A	1.9
8	☐	250000.00	249062.16	7898112.44	187.6712	A	4.9

$$y = 7.5348E-004 * x + 0.0078$$

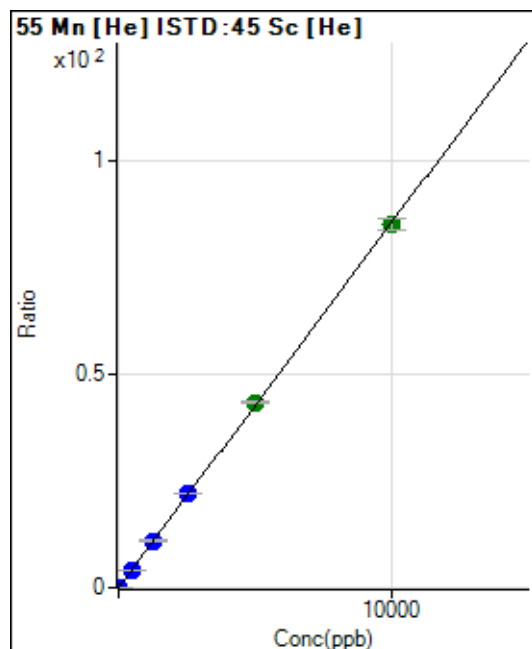
$$R = 0.9999$$

$$DL = 3.894$$

$$BEC = 10.31$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	90.00	0.0020	P	25.3
2	☐	1.000	1.011	496.68	0.0106	P	7.5
3	☐	500.000	497.394	195746.67	4.2602	P	0.6
4	☐	1250.000	1287.048	498293.24	11.0205	P	4.1
5	☐	2500.000	2566.798	1003722.23	21.9766	P	0.8
6	☐	5000.000	5071.910	1936683.69	43.4231	A	1.5
7	☐	10000.000	9942.845	3667243.80	85.1237	A	3.1
8	☐			9280.87	0.2205	P	5.4

$$y = 0.0086 * x + 0.0020$$

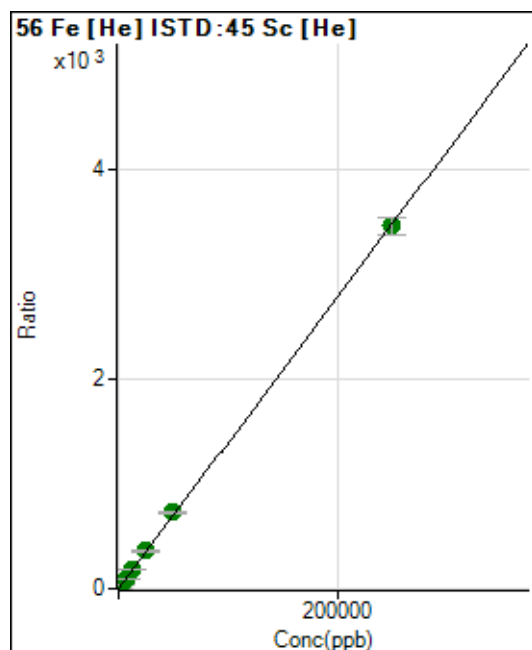
$$R = 0.9999$$

$$DL = 0.1756$$

$$BEC = 0.2316$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2337.27	0.0516	P	3.7
2	☐	50.000	51.913	36015.97	0.7716	P	3.8
3	☐	2500.000	2597.463	1657745.06	36.0789	A	1.3
4	☐	6250.000	6640.222	4167297.08	92.1529	A	3.5
5	☐	12500.000	13139.866	8326479.70	182.3043	A	0.5
6	☐	25000.000	25970.136	16067527.33	360.2629	A	1.9
7	☐	50000.000	52581.314	31425362.74	729.3655	A	2.1
8	☐	250000.00	249344.00	145563636.5	3,458.505	A	4.7

$$y = 0.0139 * x + 0.0516$$

$$R = 0.9999$$

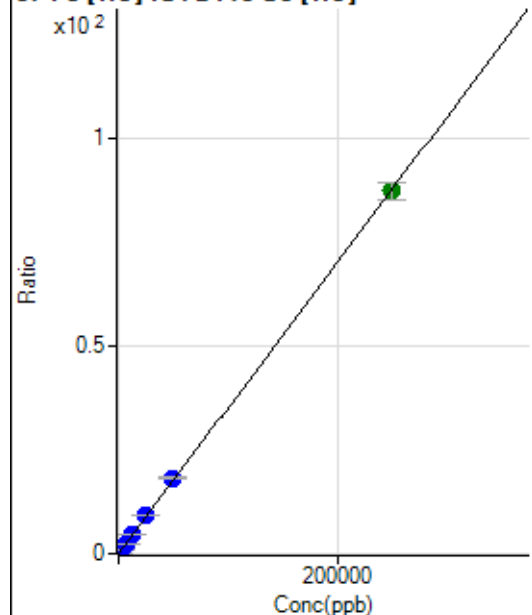
$$DL = 0.4161$$

$$BEC = 3.718$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	92.60	0.0020	P	13.3
2	☐	50.000	49.292	900.04	0.0193	P	8.4
3	☐	2500.000	2574.880	41452.98	0.9022	P	2.3
4	☐	6250.000	6614.346	104668.10	2.3143	P	3.1
5	☐	12500.000	13261.043	211783.84	4.6380	P	2.1
6	☐	25000.000	26001.930	405517.64	9.0920	P	0.5
7	☐	50000.000	51714.998	779005.61	18.0810	P	2.0
8	☐	250000.00	249508.89	3670950.08	87.2275	A	4.9

$$y = 3.4959\text{E-}004 * x + 0.0020$$

$$R = 1.0000$$

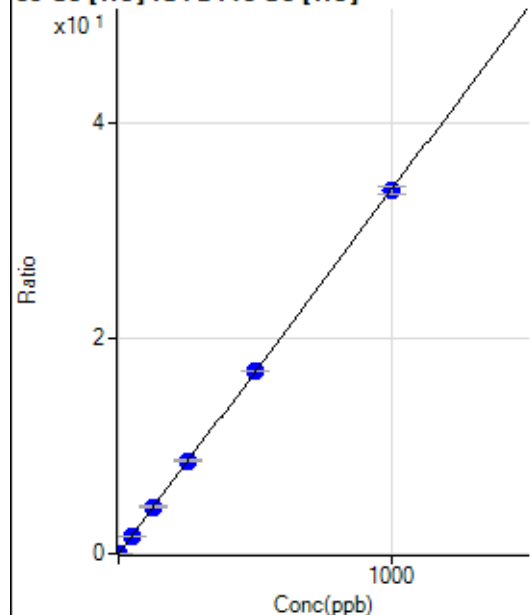
$$DL = 2.336$$

$$BEC = 5.833$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.33	0.0014	P	26.3
2	☐	1.000	0.926	1524.54	0.0326	P	2.9
3	☐	50.000	49.582	76991.28	1.6756	P	0.9
4	☐	125.000	128.710	196592.18	4.3476	P	3.8
5	☐	250.000	255.138	393501.80	8.6167	P	1.8
6	☐	500.000	502.939	757521.73	16.9842	P	0.4
7	☐	1000.000	996.803	1450223.69	33.6606	P	2.1
8	☐			4795.30	0.1141	P	9.3

$$y = 0.0338 * x + 0.0014$$

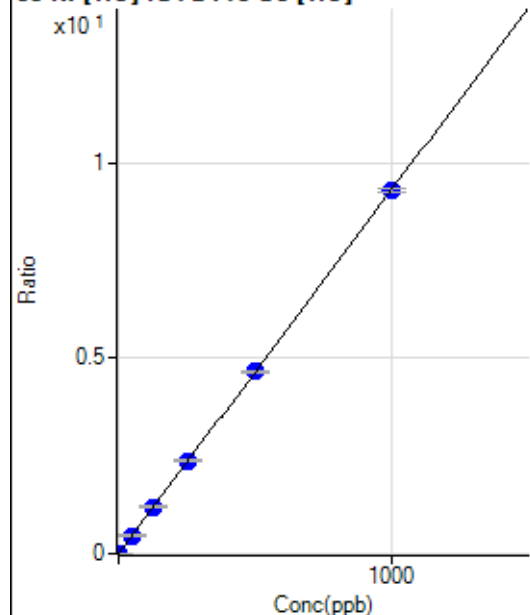
$$R = 1.0000$$

$$DL = 0.03257$$

$$BEC = 0.04128$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	87.78	0.0019	P	6.7
2	☐	1.000	1.030	537.79	0.0115	P	9.7
3	☐	50.000	49.528	21287.14	0.4633	P	2.1
4	☐	125.000	128.534	54237.26	1.1993	P	3.2
5	☐	250.000	255.996	108986.60	2.3866	P	1.7
6	☐	500.000	501.256	208341.32	4.6712	P	1.1
7	☐	1000.000	997.455	400431.05	9.2934	P	1.0
8	☐			7156.31	0.1700	P	3.7

$$y = 0.0093 * x + 0.0019$$

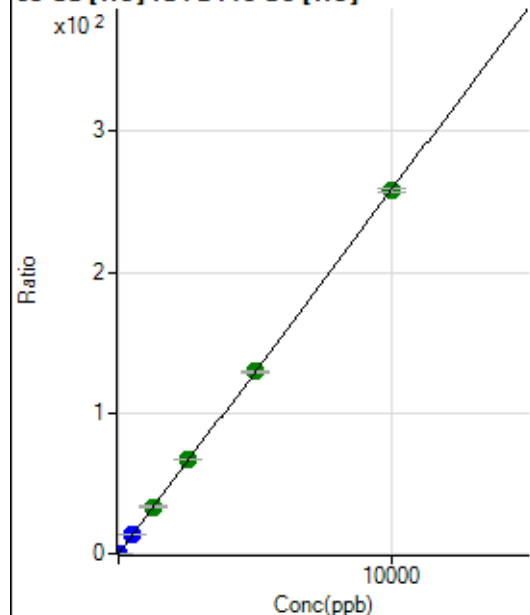
$$R = 1.0000$$

$$DL = 0.04207$$

$$BEC = 0.2077$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	240.00	0.0053	P	14.9
2	☐	2.000	2.047	2716.95	0.0582	P	4.1
3	☐	500.000	507.860	603471.71	13.1339	P	0.3
4	☐	1250.000	1291.711	1510312.34	33.3971	A	3.4
5	☐	2500.000	2598.285	3068024.88	67.1732	A	0.6
6	☐	5000.000	4998.491	5763448.53	129.2206	A	0.6
7	☐	10000.000	9970.577	11106076.78	257.7532	A	1.2
8	☐			23536.26	0.5591	P	4.4

$$y = 0.0259 * x + 0.0053$$

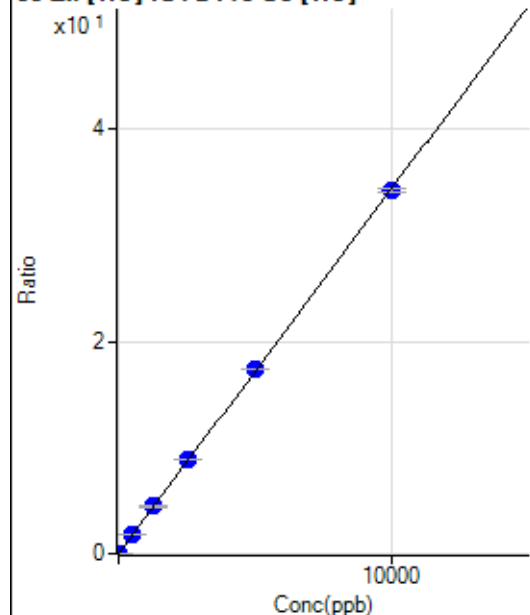
$$R = 0.9999$$

$$DL = 0.09148$$

$$BEC = 0.2049$$

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	138.89	0.0031	P	15.7
2	☐	2.000	2.069	475.57	0.0102	P	11.7
3	☐	500.000	503.461	79692.50	1.7344	P	0.9
4	☐	1250.000	1293.224	201256.74	4.4503	P	3.4
5	☐	2500.000	2580.048	405349.27	8.8756	P	1.1
6	☐	5000.000	5064.375	776908.53	17.4190	P	0.7
7	☐	10000.000	9942.225	1473283.54	34.1934	P	1.2
8	☐			8883.96	0.2112	P	6.4

$$y = 0.0034 * x + 0.0031$$

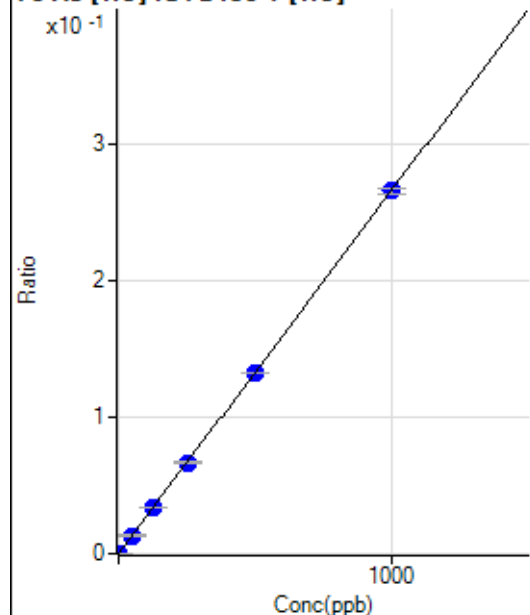
$$R = 0.9999$$

$$DL = 0.4204$$

$$BEC = 0.8921$$

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	2.00	0.0000	P	47.4
2	☐	1.000	0.997	115.01	0.0003	P	12.0
3	☐	50.000	49.729	5533.65	0.0132	P	2.4
4	☐	125.000	126.319	13962.95	0.0336	P	2.9
5	☐	250.000	251.575	28168.74	0.0670	P	0.5
6	☐	500.000	499.947	54388.62	0.1331	P	0.2
7	☐	1000.000	999.481	104904.90	0.2660	P	1.8
8	☐			213.02	0.0005	P	9.4

$$y = 2.6615E-004 * x + 4.8380E-006$$

$$R = 1.0000$$

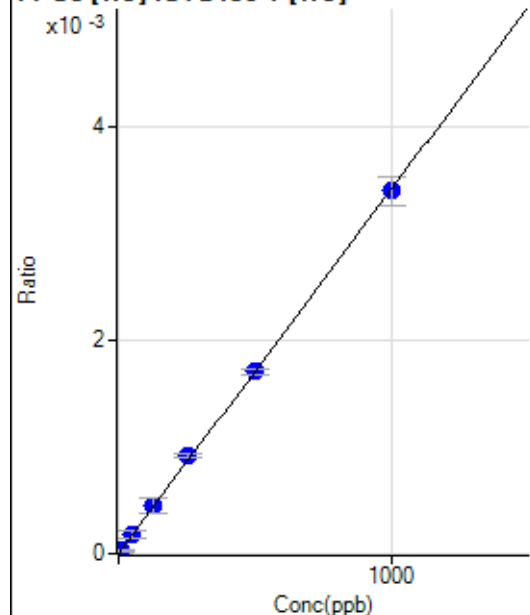
$$DL = 0.02583$$

$$BEC = 0.01818$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	7.671	12.22	0.0000	P	58.2
3	☐	50.000	53.700	77.78	0.0002	P	40.0
4	☐	125.000	131.142	186.67	0.0005	P	35.7
5	☐	250.000	269.528	388.90	0.0009	P	2.9
6	☐	500.000	498.356	697.80	0.0017	P	3.8
7	☐	1000.000	994.974	1342.30	0.0034	P	8.1
8	☐			0.00	0.0000	P	

$$y = 3.4210E-006 * x + 2.6110E-006$$

$$R = 0.9998$$

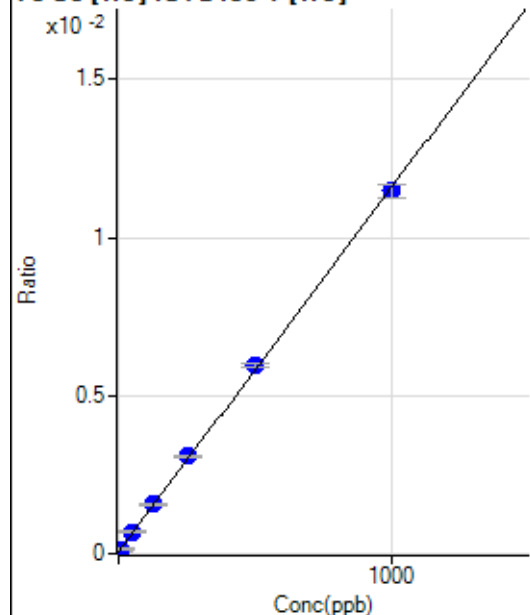
$$DL = 3.966$$

$$BEC = 0.7632$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.67	0.0001	P	27.0
2	☐	5.000	6.978	62.01	0.0001	P	9.8
3	☐	50.000	54.954	291.70	0.0007	P	5.8
4	☐	125.000	129.629	647.08	0.0016	P	6.3
5	☐	250.000	262.088	1297.20	0.0031	P	1.1
6	☐	500.000	510.916	2431.79	0.0059	P	2.2
7	☐	1000.000	990.684	4523.86	0.0115	P	3.9
8	☐			39.67	0.0001	P	10.3

$$y = 1.1516E-005 * x + 6.5307E-005$$

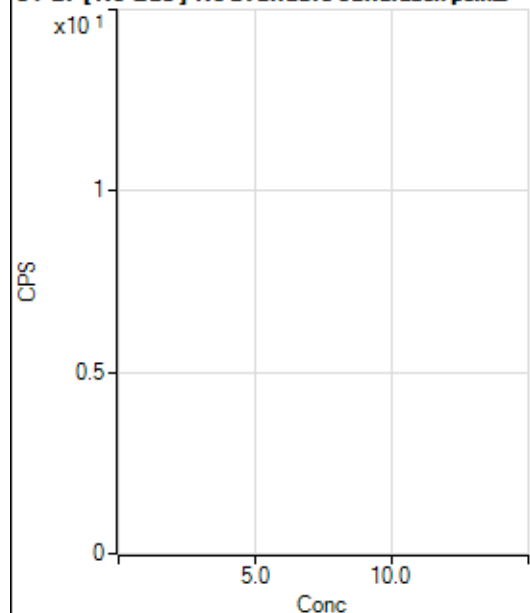
$$R = 0.9998$$

$$DL = 4.599$$

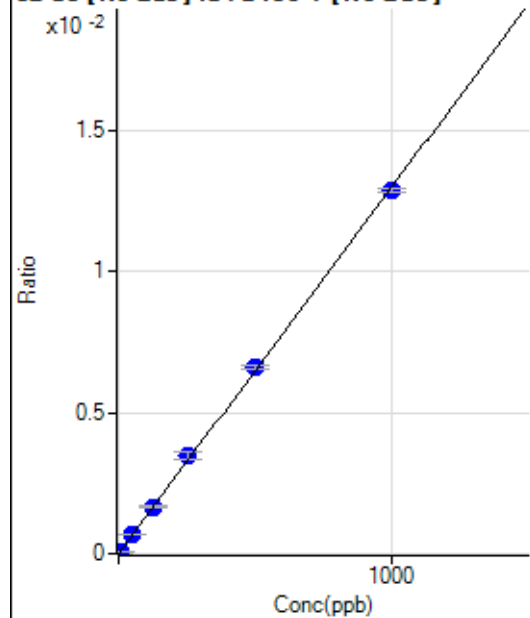
$$BEC = 5.671$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1948.82		P	11.6
2	☐			1905.43		P	6.7
3	☐			1958.83		P	7.7
4	☐			1902.10		P	0.9
5	☐			1882.07		P	3.2
6	☐			1878.74		P	4.4
7	☐			1852.04		P	5.5
8	☐			2095.65		P	2.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-30.62	0.0000	P	-67.
2	☐	5.000	5.618	247.46	0.0001	P	7.5
3	☐	50.000	50.667	2473.72	0.0007	P	1.8
4	☐	125.000	127.668	6254.07	0.0017	P	3.3
5	☐	250.000	267.527	12824.52	0.0035	P	6.5
6	☐	500.000	508.881	25328.77	0.0066	P	1.3
7	☐	1000.000	990.808	48280.17	0.0129	P	1.1
8	☐			130.13	0.0000	P	23.2

$$y = 1.3002E-005 * x - 8.1759E-006$$

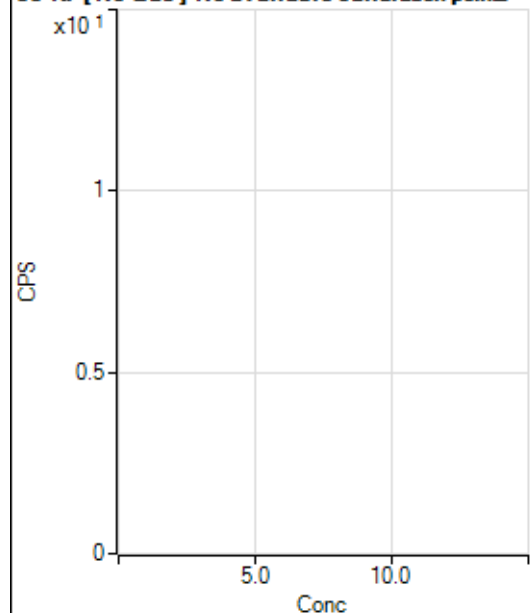
$$R = 0.9998$$

$$DL = 1.266$$

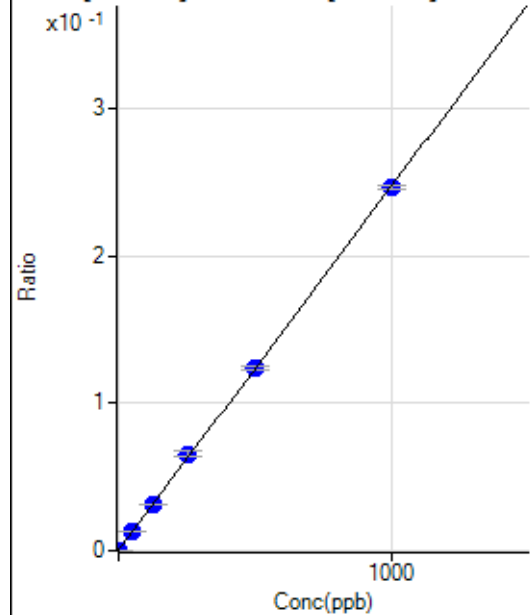
$$BEC = -0.6288$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			480.01		P	3.7
2	☐			467.79		P	2.5
3	☐			475.57		P	6.9
4	☐			438.90		P	11.4
5	☐			442.23		P	1.6
6	☐			440.01		P	8.5
7	☐			448.90		P	8.0
8	☐			415.57		P	10.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	752.82	0.0002	P	19.9
2	☐	1.000	1.020	1730.71	0.0005	P	6.3
3	☐	50.000	49.999	47720.90	0.0126	P	1.2
4	☐	125.000	126.094	118675.85	0.0313	P	0.2
5	☐	250.000	265.110	242866.00	0.0657	P	5.3
6	☐	500.000	501.830	475816.25	0.1242	P	2.0
7	☐	1000.000	995.171	922582.69	0.2460	P	1.0
8	☐			3878.41	0.0010	P	7.3

$$y = 2.4701\text{E-}004 * x + 2.0170\text{E-}004$$

$$R = 0.9999$$

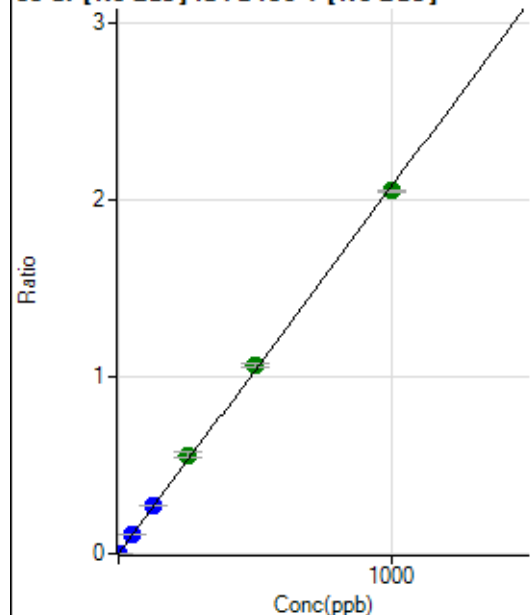
$$DL = 0.4881$$

$$BEC = 0.8166$$

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	213.90	0.0001	P	38.0
2	☐	1.000	0.986	8021.93	0.0021	P	5.1
3	☐	50.000	51.282	404809.14	0.1065	P	0.8
4	☐	125.000	129.944	1020937.78	0.2697	P	1.1
5	☐	250.000	268.523	2059440.52	0.5573	A	6.4
6	☐	500.000	513.077	4081050.70	1.0647	A	1.4
7	☐	1000.000	988.149	7689793.49	2.0506	A	0.9
8	☐			29055.82	0.0077	P	2.2

$$y = 0.0021 * x + 5.7210E-005$$

$$R = 0.9997$$

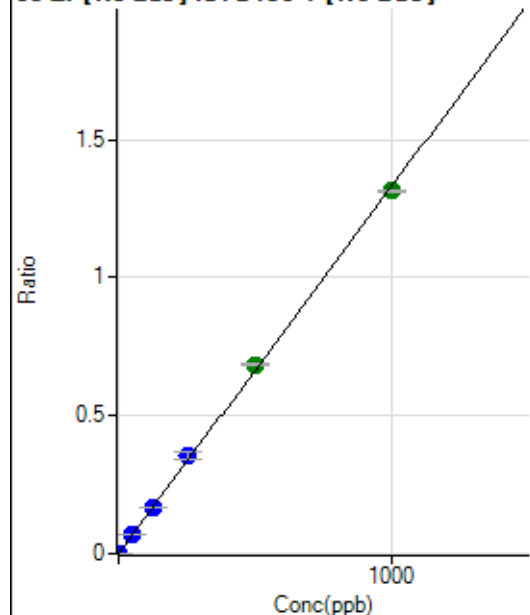
$$DL = 0.03141$$

$$BEC = 0.02757$$

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	205.56	0.0001	P	19.8
2	☐	1.000	0.905	4798.17	0.0013	P	1.7
3	☐	50.000	50.210	253916.92	0.0668	P	0.9
4	☐	125.000	126.837	638347.63	0.1686	P	1.0
5	☐	250.000	266.857	1311059.06	0.3547	P	6.3
6	☐	500.000	514.425	2620677.77	0.6837	A	1.0
7	☐	1000.000	988.333	4926020.73	1.3136	A	0.7
8	☐			9464.60	0.0025	P	0.7

$$y = 0.0013 * x + 5.4987E-005$$

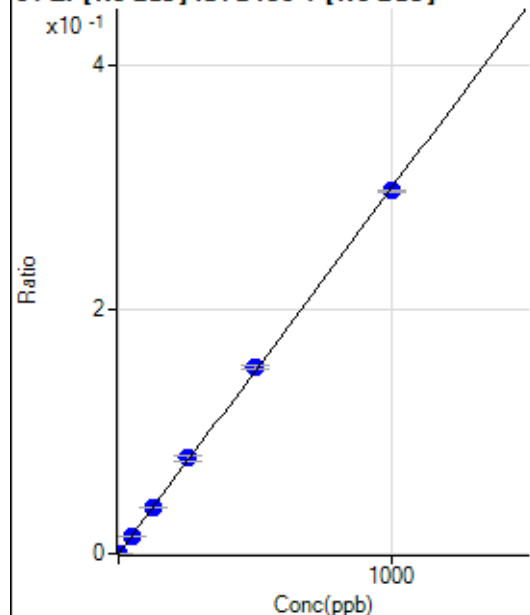
$$R = 0.9997$$

$$DL = 0.02457$$

$$BEC = 0.04137$$

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	47.22	0.0000	P	37.5
2	☐	1.000	0.876	1050.07	0.0003	P	4.1
3	☐	50.000	49.092	56004.51	0.0147	P	1.4
4	☐	125.000	125.071	141979.52	0.0375	P	2.0
5	☐	250.000	262.593	291003.50	0.0787	P	6.3
6	☐	500.000	508.396	584178.17	0.1524	P	2.0
7	☐	1000.000	992.690	1116123.82	0.2976	P	0.8
8	☐			2027.99	0.0005	P	6.2

$$y = 2.9981\text{E-}004 * x + 1.2664\text{E-}005$$

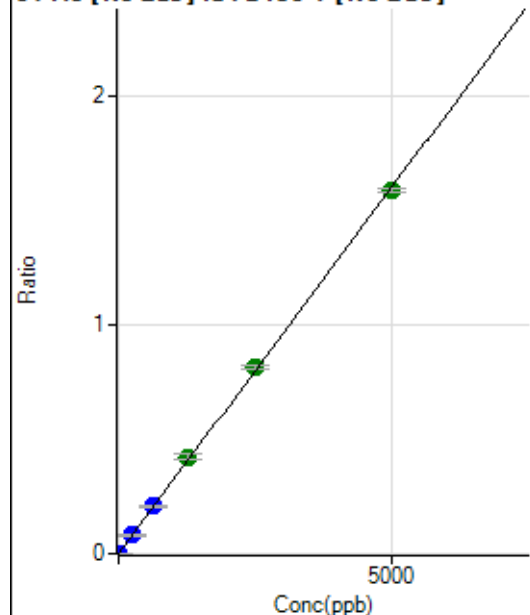
$$R = 0.9998$$

$$DL = 0.04754$$

$$BEC = 0.04224$$

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	50.00	0.0000	P	60.5
2	☐	5.000	5.053	6221.00	0.0016	P	2.7
3	☐	250.000	251.029	305559.42	0.0804	P	1.4
4	☐	625.000	645.532	782266.78	0.2066	P	0.8
5	☐	1250.000	1324.754	1567606.82	0.4241	A	5.8
6	☐	2500.000	2546.770	3124021.29	0.8152	A	2.5
7	☐	5000.000	4955.308	5948319.79	1.5862	A	1.0
8	☐			13626.44	0.0036	P	2.7

$$y = 3.2010\text{E-}004 * x + 1.3412\text{E-}005$$

$$R = 0.9998$$

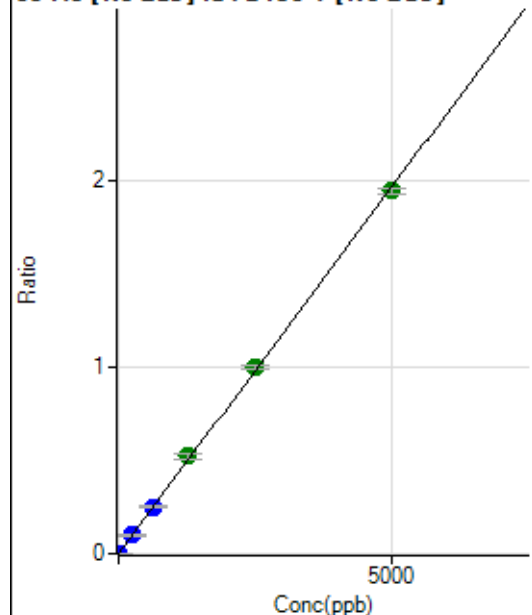
$$DL = 0.07603$$

$$BEC = 0.0419$$

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	11.11	0.0000	P	173.
2	☐	5.000	5.186	7763.48	0.0020	P	2.9
3	☐	250.000	249.353	371516.52	0.0977	P	0.5
4	☐	625.000	639.873	949209.08	0.2508	P	1.1
5	☐	1250.000	1332.311	1930225.26	0.5221	A	5.6
6	☐	2500.000	2550.792	3830782.94	0.9996	A	2.1
7	☐	5000.000	4952.199	7277253.98	1.9406	A	1.8
8	☐			17856.23	0.0047	P	1.7

$$y = 3.9187E-004 * x + 2.9996E-006$$

$$R = 0.9998$$

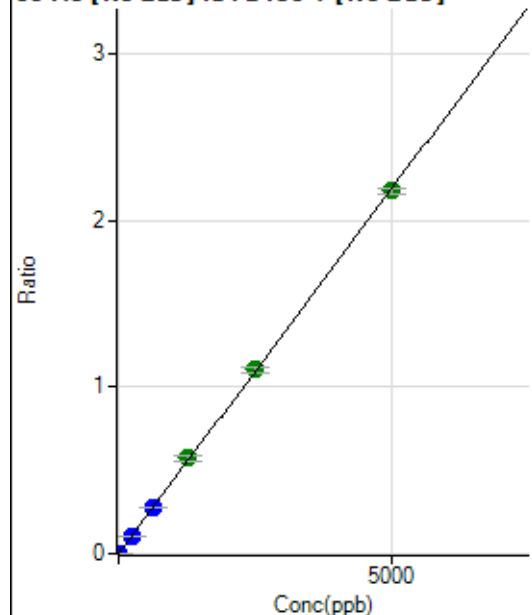
$$DL = 0.03977$$

$$BEC = 0.007655$$

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	72.23	0.0000	P	18.2
2	☐	5.000	5.230	8803.00	0.0023	P	1.8
3	☐	250.000	248.324	413167.30	0.1087	P	0.8
4	☐	625.000	638.609	1057848.43	0.2794	P	0.4
5	☐	1250.000	1307.250	2114791.19	0.5720	A	5.3
6	☐	2500.000	2522.357	4229342.63	1.1037	A	2.6
7	☐	5000.000	4972.892	8159390.81	2.1759	A	1.4
8	☐			20204.05	0.0054	P	2.3

$$y = 4.3754E-004 * x + 1.9351E-005$$

$$R = 0.9999$$

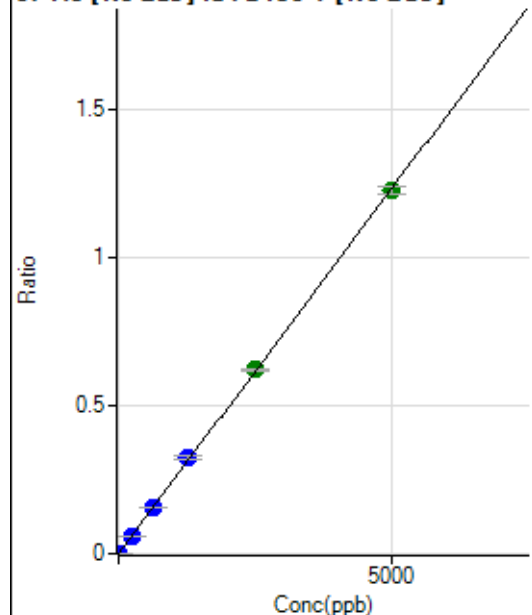
$$DL = 0.02419$$

$$BEC = 0.04423$$

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	8.33	0.0000	P	100.
2	☐	5.000	5.148	4851.01	0.0013	P	2.2
3	☐	250.000	247.222	231814.81	0.0610	P	0.9
4	☐	625.000	631.052	589138.70	0.1556	P	0.8
5	☐	1250.000	1317.887	1201755.53	0.3250	P	5.2
6	☐	2500.000	2517.991	2379811.58	0.6210	A	1.9
7	☐	5000.000	4973.415	4599269.89	1.2265	A	2.1
8	☐			11399.38	0.0030	P	1.8

$$y = 2.4662\text{E-}004 * x + 2.2398\text{E-}006$$

$$R = 0.9999$$

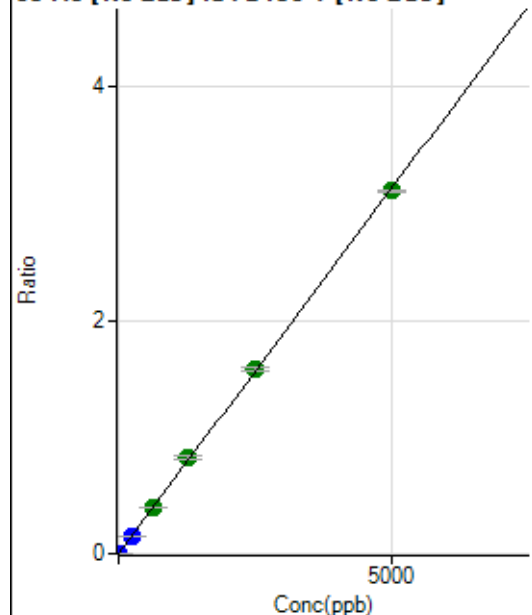
$$DL = 0.02738$$

$$BEC = 0.009082$$

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	19.45	0.0000	P	24.2
2	☐	5.000	5.112	12222.32	0.0032	P	3.2
3	☐	250.000	248.864	592143.54	0.1557	P	0.3
4	☐	625.000	632.780	1499011.60	0.3960	A	1.4
5	☐	1250.000	1318.791	3052100.76	0.8253	A	4.8
6	☐	2500.000	2526.490	6059203.44	1.5811	A	2.1
7	☐	5000.000	4968.641	11660695.92	3.1094	A	0.7
8	☐			28883.47	0.0077	P	1.6

$$y = 6.2581\text{E-}004 * x + 5.2026\text{E-}006$$

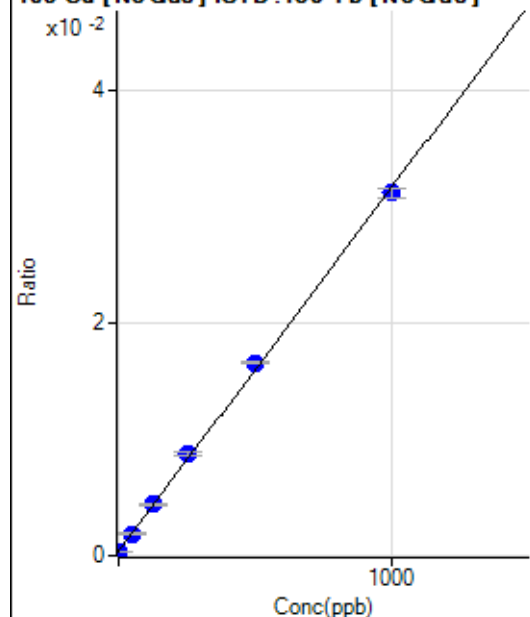
$$R = 0.9999$$

$$DL = 0.006047$$

$$BEC = 0.008313$$

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	875.05	0.0004	P	4.8
2	☐	1.000	0.587	925.06	0.0004	P	6.5
3	☐	50.000	49.150	4564.76	0.0019	P	6.7
4	☐	125.000	129.025	10640.48	0.0044	P	3.0
5	☐	250.000	268.665	20504.56	0.0087	P	5.6
6	☐	500.000	518.271	40565.88	0.0165	P	1.1
7	☐	1000.000	985.738	76394.78	0.0311	P	2.9
8	☐			1047.29	0.0004	P	11.5

$$y = 3.1205\text{E-}005 * x + 3.6231\text{E-}004$$

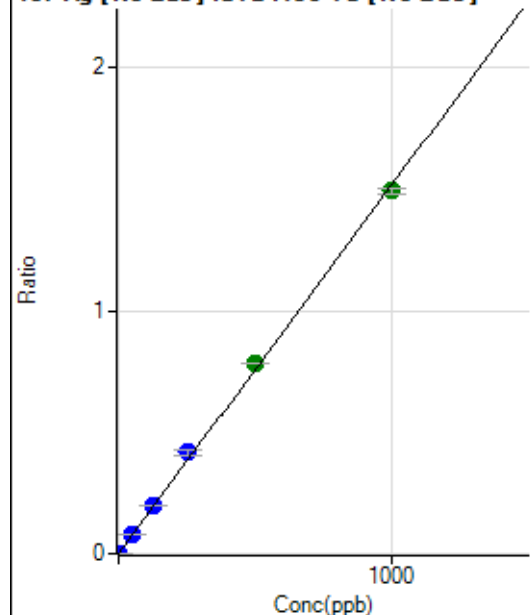
$$R = 0.9995$$

$$DL = 1.681$$

$$BEC = 11.61$$

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	13.89	0.0000	P	124.
2	☐	1.000	0.941	3481.08	0.0014	P	4.9
3	☐	50.000	51.490	188026.55	0.0781	P	1.4
4	☐	125.000	130.692	480423.50	0.1982	P	0.9
5	☐	250.000	274.314	975342.34	0.4160	P	5.1
6	☐	500.000	516.588	1921791.40	0.7833	A	0.4
7	☐	1000.000	984.842	3665452.60	1.4934	A	1.7
8	☐			6868.55	0.0028	P	6.4

$$y = 0.0015 * x + 5.7074\text{E-}006$$

$$R = 0.9994$$

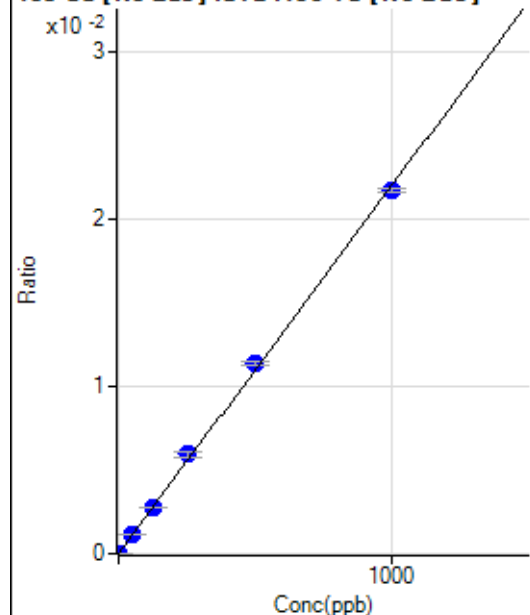
$$DL = 0.01402$$

$$BEC = 0.003764$$

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	0.00	0.0000	P	
2	☐	1.000	0.935	50.00	0.0000	P	14.9
3	☐	50.000	52.775	2790.59	0.0012	P	2.9
4	☐	125.000	126.848	6750.35	0.0028	P	1.4
5	☐	250.000	270.088	13894.58	0.0059	P	7.1
6	☐	500.000	516.116	27796.10	0.0113	P	1.7
7	☐	1000.000	986.550	53161.65	0.0217	P	1.1
8	☐			127.78	0.0001	P	10.6

$$y = 2.1953\text{E-}005 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

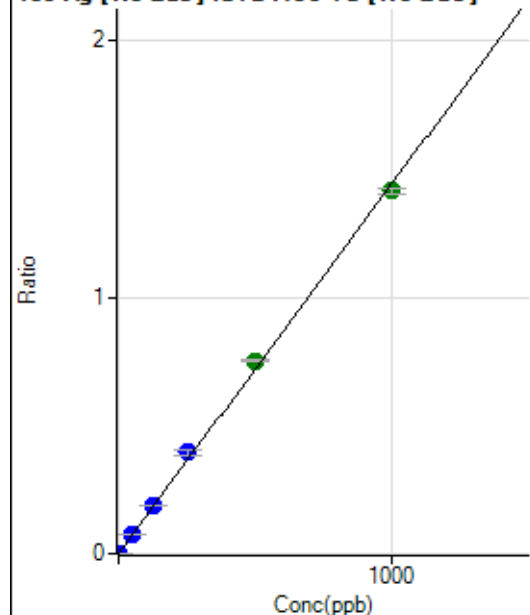
$$DL = 0$$

$$BEC = 0$$

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	11.11	0.0000	P	42.2
2	☐	1.000	0.927	3258.80	0.0013	P	4.9
3	☐	50.000	51.716	179460.75	0.0745	P	1.4
4	☐	125.000	130.488	455777.77	0.1880	P	1.6
5	☐	250.000	275.390	930195.27	0.3968	P	5.8
6	☐	500.000	521.152	1842254.25	0.7509	A	0.9
7	☐	1000.000	982.305	3474126.12	1.4154	A	1.5
8	☐			6554.49	0.0027	P	2.1

$$y = 0.0014 * x + 4.5881\text{E-}006$$

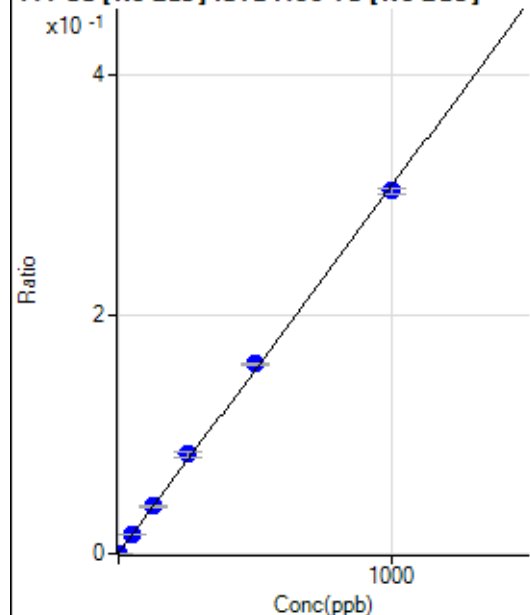
$$R = 0.9993$$

$$DL = 0.004027$$

$$BEC = 0.003184$$

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	616.71	0.0003	P	4.6
2	☐	1.000	1.038	1394.52	0.0006	P	6.8
3	☐	50.000	50.902	38240.20	0.0159	P	1.6
4	☐	125.000	127.443	95447.58	0.0394	P	1.0
5	☐	250.000	269.387	194505.36	0.0829	P	4.9
6	☐	500.000	515.717	388981.67	0.1586	P	0.8
7	☐	1000.000	986.944	744186.07	0.3032	P	1.9
8	☐			1875.67	0.0008	P	4.9

$$y = 3.0695E-004 * x + 2.5535E-004$$

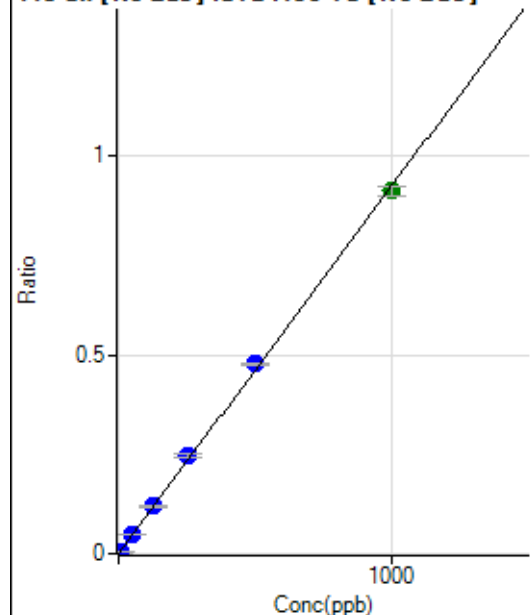
$$R = 0.9996$$

$$DL = 0.1147$$

$$BEC = 0.8319$$

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	222.23	0.0001	P	6.6
2	☐	5.000	5.040	11552.42	0.0048	P	2.9
3	☐	50.000	50.772	113259.97	0.0470	P	1.0
4	☐	125.000	128.580	288379.55	0.1190	P	2.2
5	☐	250.000	267.011	579022.86	0.2469	P	5.3
6	☐	500.000	515.522	1169396.45	0.4767	P	1.8
7	☐	1000.000	987.500	2240957.13	0.9131	A	2.6
8	☐			5567.98	0.0023	P	5.1

$$y = 9.2452E-004 * x + 9.2083E-005$$

$$R = 0.9996$$

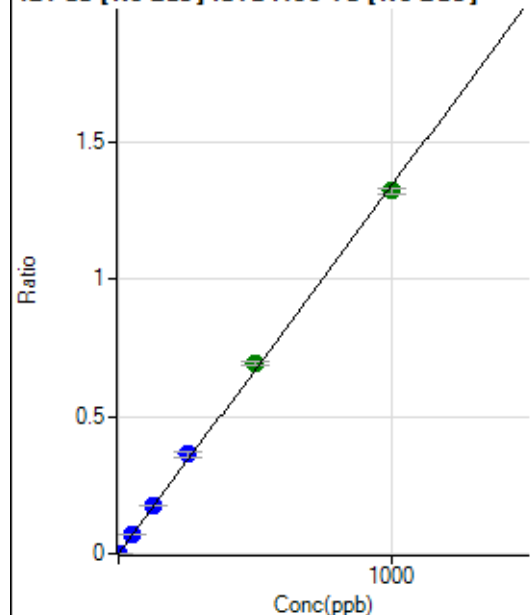
$$DL = 0.01973$$

$$BEC = 0.0996$$

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	25.00	0.0000	P	65.8
2	☐	2.000	1.949	6385.01	0.0026	P	2.5
3	☐	50.000	51.272	165652.62	0.0688	P	0.9
4	☐	125.000	128.857	419036.97	0.1729	P	1.1
5	☐	250.000	270.735	851597.25	0.3632	P	5.1
6	☐	500.000	515.676	1696943.31	0.6917	A	2.1
7	☐	1000.000	986.433	3247798.21	1.3232	A	1.9
8	☐			7766.28	0.0032	P	1.8

$$y = 0.0013 * x + 1.0306E-005$$

$$R = 0.9996$$

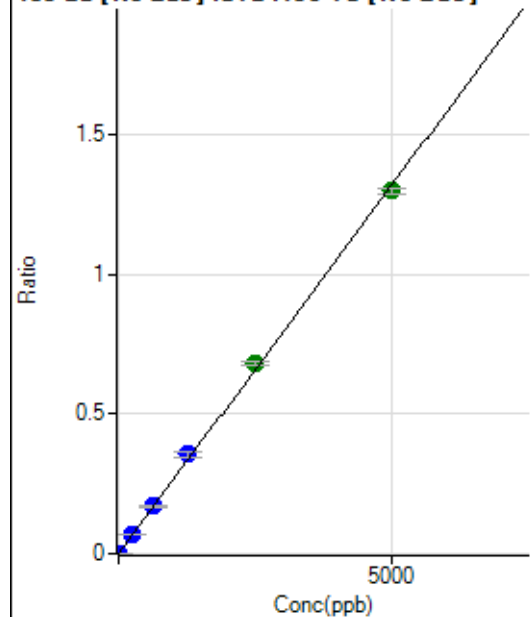
$$DL = 0.01517$$

$$BEC = 0.007683$$

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	22.22	0.0000	P	77.1
2	☐	10.000	9.778	6282.19	0.0026	P	2.5
3	☐	250.000	252.041	159772.71	0.0663	P	0.9
4	☐	625.000	641.254	409164.86	0.1688	P	0.9
5	☐	1250.000	1352.360	834655.61	0.3559	P	5.1
6	☐	2500.000	2589.759	1672173.16	0.6816	A	1.4
7	☐	5000.000	4927.397	3183256.56	1.2969	A	1.6
8	☐			11407.87	0.0047	P	4.9

$$y = 2.6320E-004 * x + 9.1528E-006$$

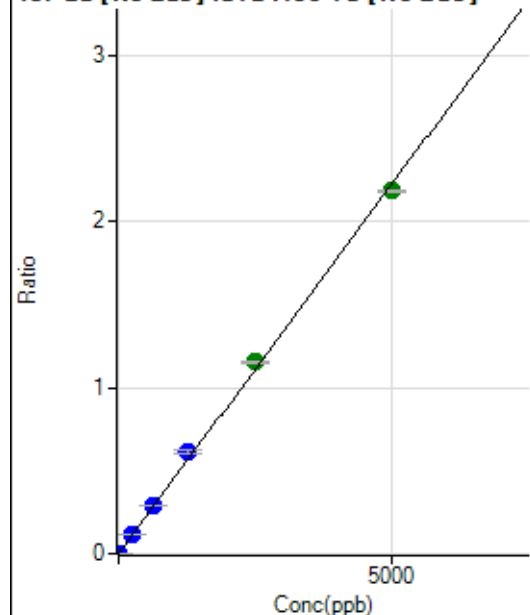
$$R = 0.9995$$

$$DL = 0.0804$$

$$BEC = 0.03478$$

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	41.67	0.0000	P	20.5
2	☐	10.000	10.278	11143.85	0.0046	P	1.5
3	☐	250.000	258.575	276586.46	0.1149	P	0.6
4	☐	625.000	655.351	705554.86	0.2911	P	1.4
5	☐	1250.000	1377.166	1434208.31	0.6116	P	5.0
6	☐	2500.000	2596.547	2828898.11	1.1532	A	1.6
7	☐	5000.000	4915.712	5359009.15	2.1831	A	0.5
8	☐			18994.34	0.0078	P	2.5

$$y = 4.4410E-004 * x + 1.7267E-005$$

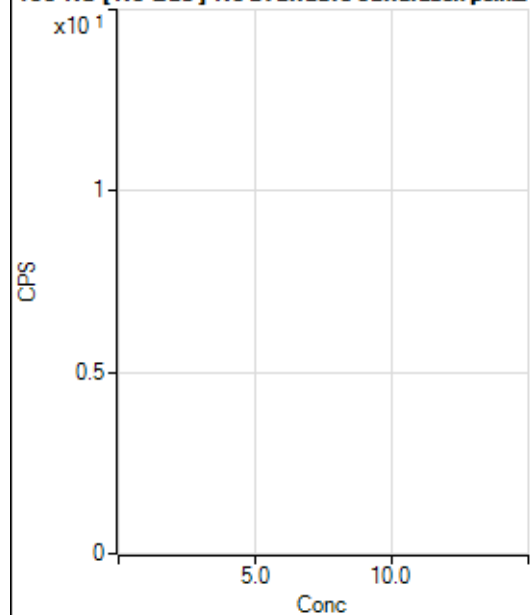
$$R = 0.9993$$

$$DL = 0.02389$$

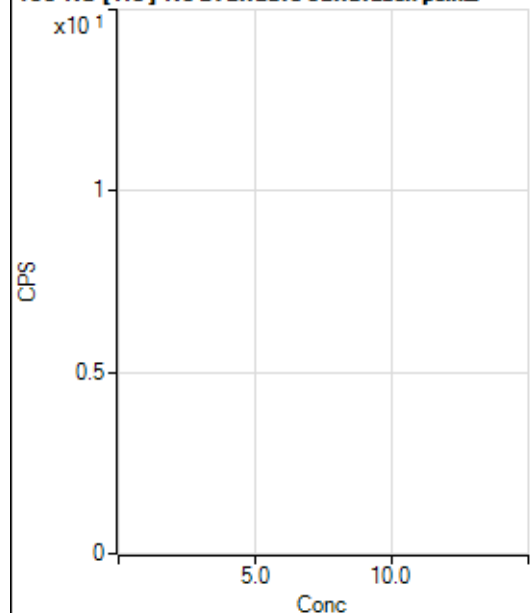
$$BEC = 0.03888$$

Weight: <None>

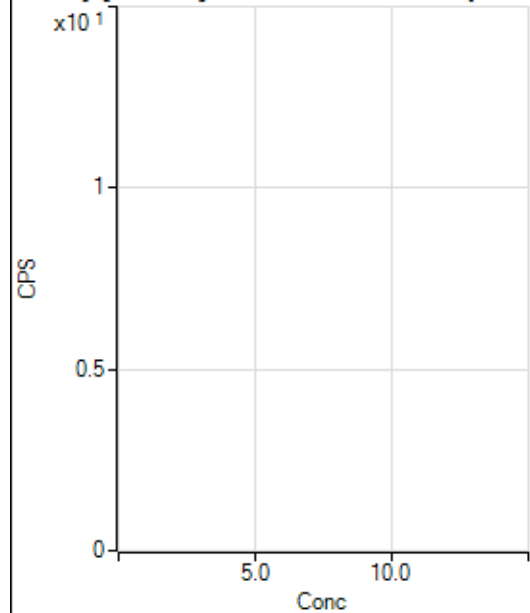
Min Conc: 0

150 Nd [No Gas] No available calibration points

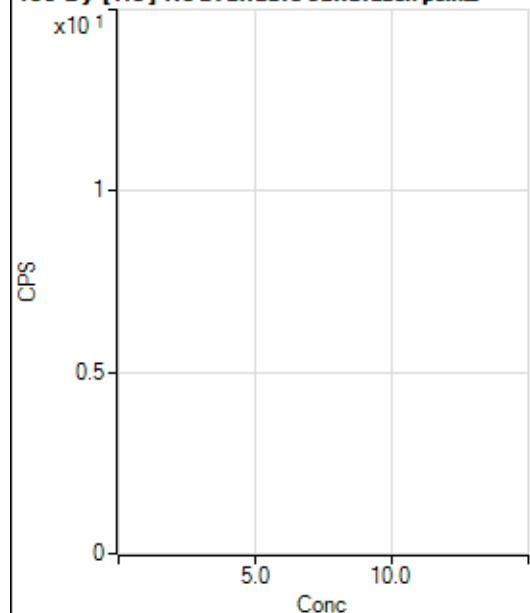
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			15.56		P	65.5
3	☐			11.11		P	69.3
4	☐			15.56		P	49.5
5	☐			37.78		P	66.8
6	☐			66.67		P	20.0
7	☐			108.89		P	12.7
8	☐			26.67		P	0.0

150 Nd [He] No available calibration points

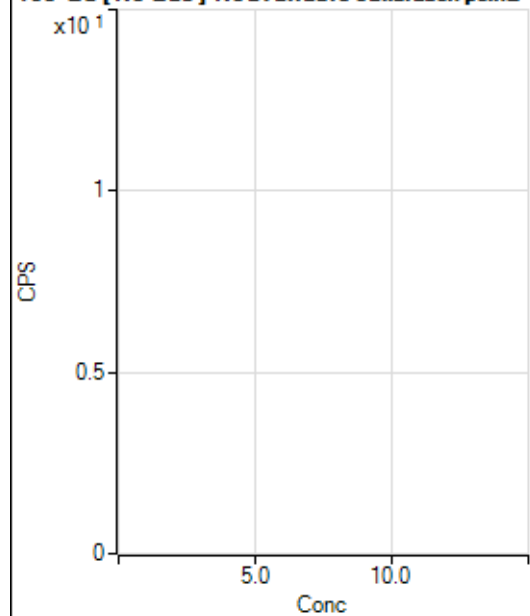
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.
4	☐			2.22		P	86.6
5	☐			2.22		P	86.6
6	☐			4.44		P	43.4
7	☐			4.44		P	173.
8	☐			5.56		P	91.6

156 Dy [No Gas] No available calibration points

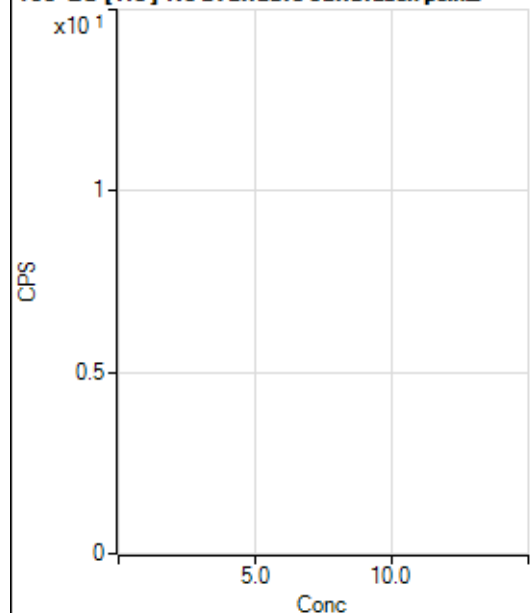
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	100.
3	☐			19.44		P	65.5
4	☐			13.89		P	91.6
5	☐			13.89		P	91.6
6	☐			16.67		P	50.0
7	☐			44.44		P	60.3
8	☐			166.67		P	15.0

156 Dy [He] No available calibration points

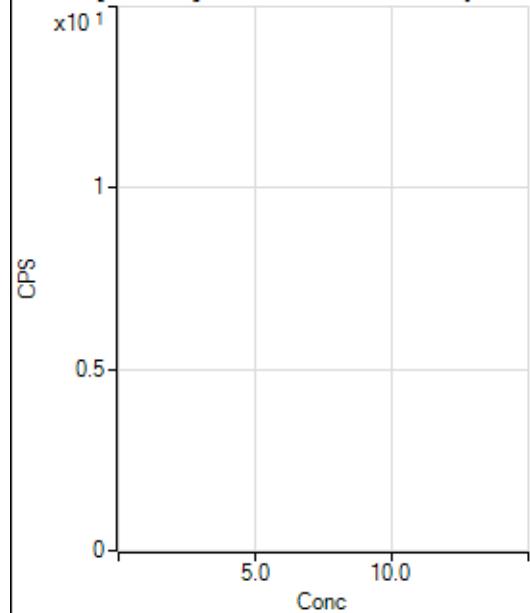
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			7.78		P	65.5
4	☐			3.33		P	100.
5	☐			5.56		P	34.7
6	☐			8.89		P	86.6
7	☐			12.22		P	31.5
8	☐			88.89		P	16.9

160 Gd [No Gas] Noavailable calibration poin_

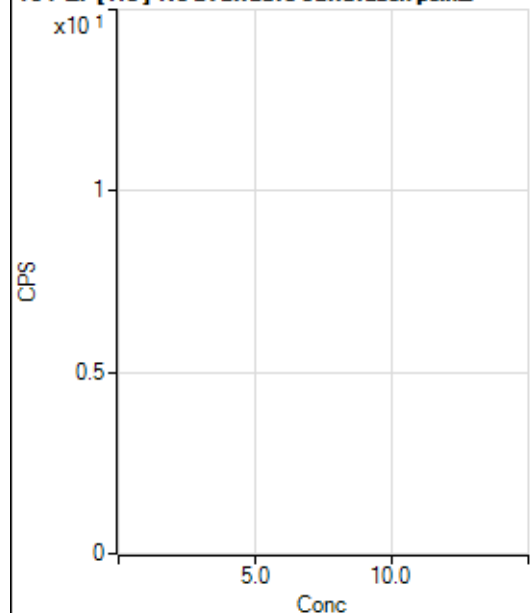
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	65.5
2	☐			19.44		P	49.5
3	☐			27.78		P	17.3
4	☐			16.67		P	86.6
5	☐			25.00		P	33.3
6	☐			50.00		P	44.1
7	☐			47.22		P	20.4
8	☐			194.45		P	22.0

160 Gd [He] No available calibration points

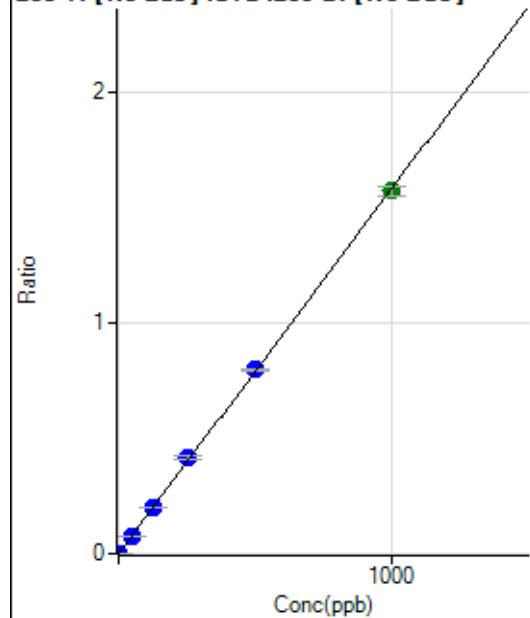
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.
3	☐			6.67		P	100.
4	☐			4.44		P	114.
5	☐			17.78		P	78.1
6	☐			16.66		P	34.6
7	☐			31.11		P	76.0
8	☐			82.22		P	26.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			8.33		P	100.
3	☐			16.67		P	100.
4	☐			8.33		P	0.0
5	☐			16.67		P	132.
6	☐			8.33		P	100.
7	☐			16.67		P	50.0
8	☐			75.00		P	29.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			7.78		P	65.5
3	☐			5.56		P	173.
4	☐			7.78		P	99.0
5	☐			5.55		P	124.
6	☐			8.89		P	78.1
7	☐			8.89		P	57.3
8	☐			14.45		P	26.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	15.6
2	☐	1.000	0.920	2139.12	0.0015	P	3.6
3	☐	50.000	48.639	108761.77	0.0768	P	0.6
4	☐	125.000	125.326	279971.91	0.1978	P	1.2
5	☐	250.000	263.213	577606.92	0.4155	P	5.4
6	☐	500.000	503.869	1151401.19	0.7953	P	1.9
7	☐	1000.000	994.790	2231479.21	1.5702	A	2.8
8	☐			4714.87	0.0034	P	2.1

$$y = 0.0016 * x + 3.5205E-005$$

$$R = 0.9999$$

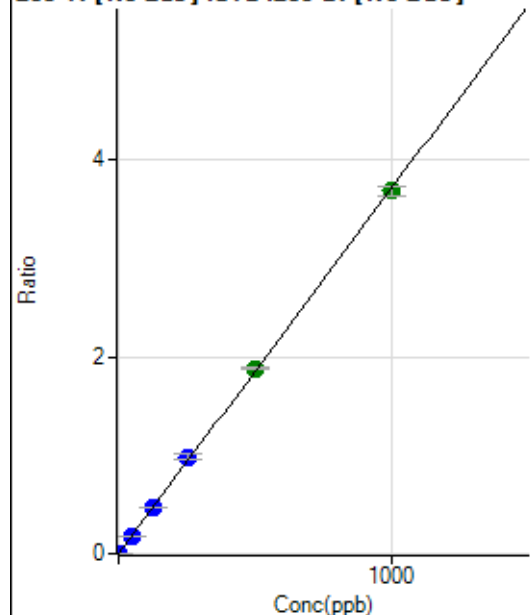
$$DL = 0.01042$$

$$BEC = 0.0223$$

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	102.78	0.0001	P	43.6
2	☐	1.000	0.944	5140.07	0.0036	P	6.0
3	☐	50.000	49.588	260706.65	0.1841	P	1.1
4	☐	125.000	125.310	658206.16	0.4651	P	1.1
5	☐	250.000	264.487	1364745.97	0.9817	P	5.2
6	☐	500.000	506.509	2721531.05	1.8799	A	1.5
7	☐	1000.000	993.105	5238132.36	3.6857	A	2.7
8	☐			10804.85	0.0078	P	1.4

$$y = 0.0037 * x + 7.2213E-005$$

$$R = 0.9998$$

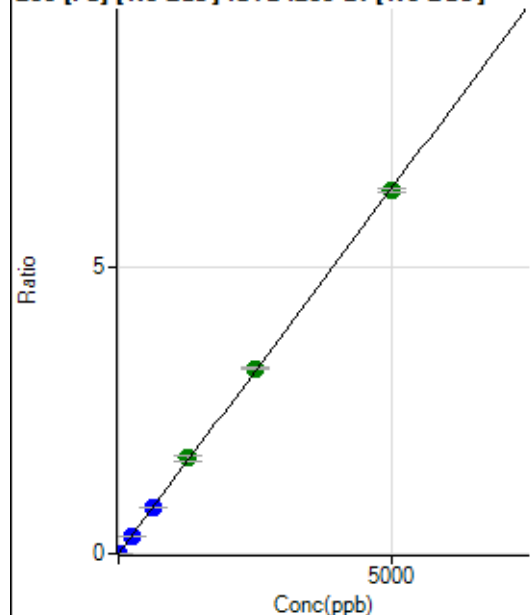
$$DL = 0.02543$$

$$BEC = 0.01946$$

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	131.49	0.0001	P	11.6
2	☐	1.000	0.930	1833.50	0.0013	P	1.3
3	☐	250.000	244.915	441242.94	0.3116	P	1.0
4	☐	625.000	625.392	1125690.26	0.7955	P	1.7
5	☐	1250.000	1309.366	2315443.71	1.6655	A	5.2
6	☐	2500.000	2536.737	4671397.21	3.2266	A	1.5
7	☐	5000.000	4966.995	8979085.39	6.3178	A	0.9
8	☐			23660.69	0.0171	P	3.3

$$y = 0.0013 * x + 9.2749E-005$$

$$R = 0.9999$$

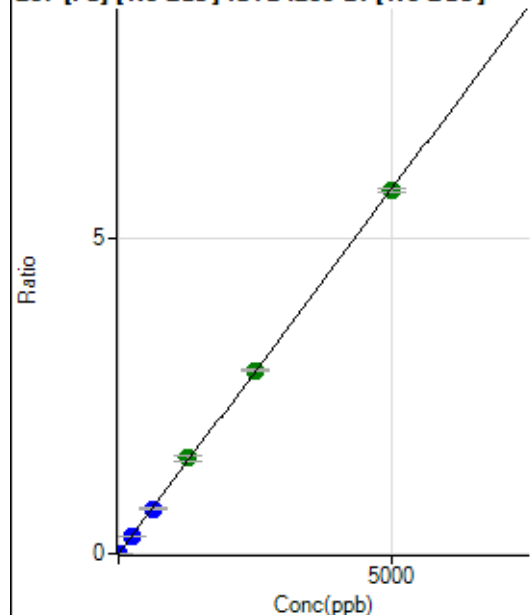
$$DL = 0.02527$$

$$BEC = 0.07292$$

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	101.85	0.0001	P	19.9
2	☐	1.000	0.908	1611.24	0.0011	P	3.3
3	☐	250.000	240.668	393668.70	0.2780	P	1.3
4	☐	625.000	619.185	1012013.76	0.7152	P	1.1
5	☐	1250.000	1306.636	2098280.73	1.5091	A	4.7
6	☐	2500.000	2519.167	4211925.76	2.9094	A	2.0
7	☐	5000.000	4977.451	8170148.22	5.7484	A	1.2
8	☐			21067.32	0.0152	P	0.4

$$y = 0.0012 * x + 7.1712E-005$$

$$R = 0.9999$$

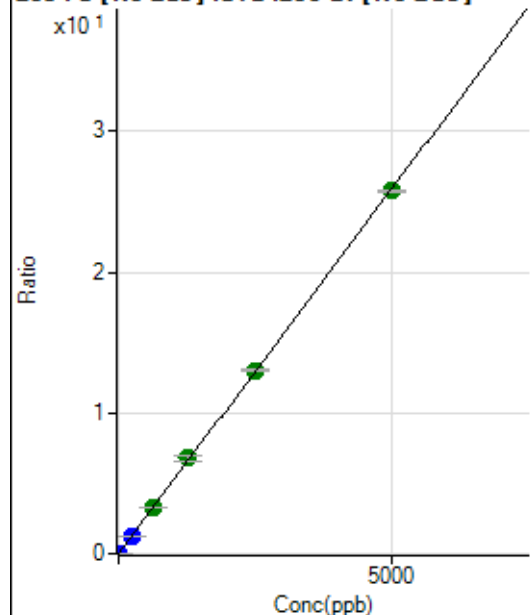
$$DL = 0.03706$$

$$BEC = 0.06209$$

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	553.72	0.0004	P	4.7
2	☐	1.000	0.914	7365.79	0.0051	P	1.4
3	☐	250.000	243.081	1782736.36	1.2590	P	1.0
4	☐	625.000	627.515	4597926.21	3.2494	A	1.6
5	☐	1250.000	1307.098	9408598.05	6.7681	A	5.3
6	☐	2500.000	2517.123	18868700.51	13.0331	A	1.4
7	☐	5000.000	4977.196	36626478.02	25.7705	A	0.8
8	☐			95454.85	0.0691	P	1.4

$$y = 0.0052 * x + 3.9019E-004$$

$$R = 0.9999$$

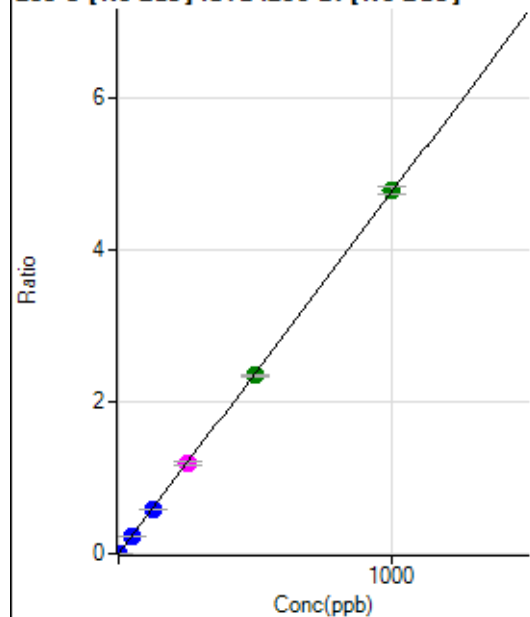
$$DL = 0.0107$$

$$BEC = 0.07536$$

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	2.78	0.0000	P	173.
2	☐	1.000	0.956	6546.32	0.0046	P	3.1
3	☐	50.000	47.117	317848.20	0.2245	P	0.4
4	☐	125.000	120.906	815005.47	0.5760	P	1.6
5	☐	250.000	252.144	1670354.26	1.2012	M	4.5
6	☐	500.000	492.288	3395165.35	2.3452	A	2.0
7	☐	1000.000	1003.976	6797224.98	4.7828	A	2.1
8	☐			11741.82	0.0085	P	2.3

$$y = 0.0048 * x + 1.9315E-006$$

$$R = 0.9999$$

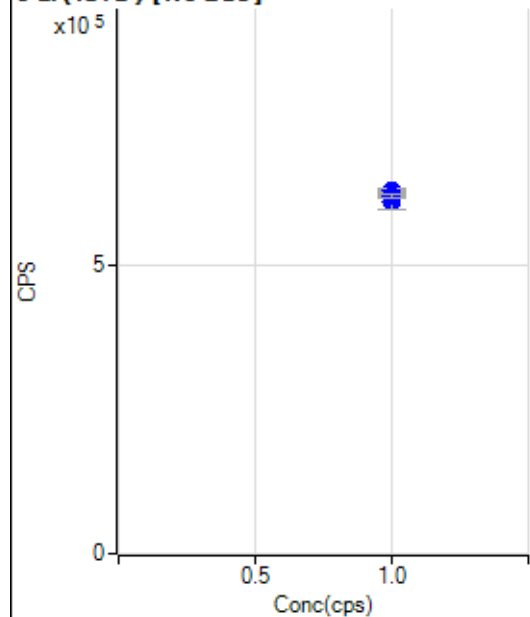
$$DL = 0.002107$$

$$BEC = 0.0004054$$

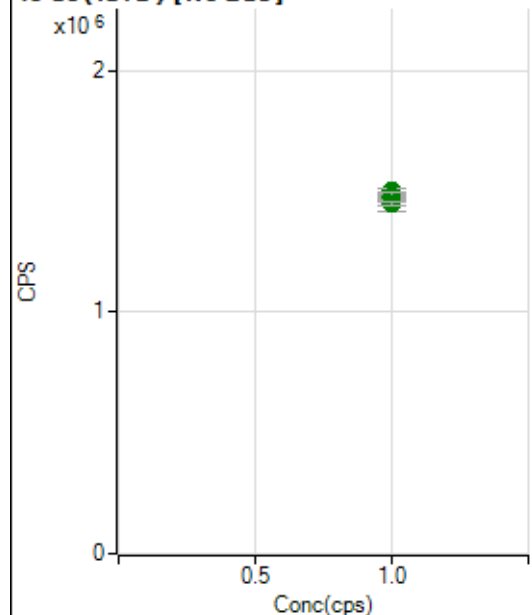
Weight: <None>

Min Conc: 0

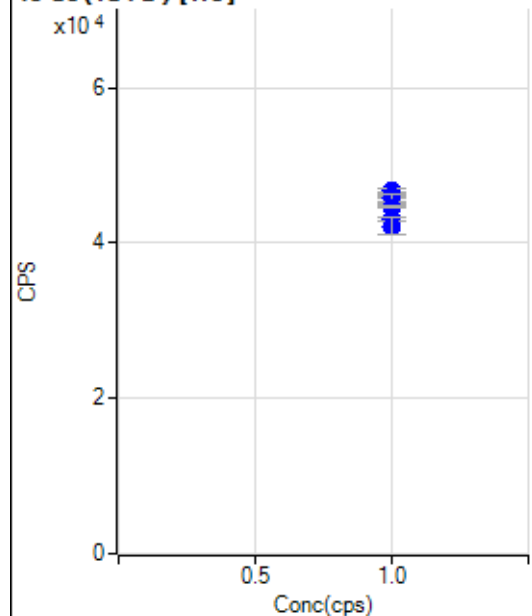
6 Li (ISTD) [No Gas]



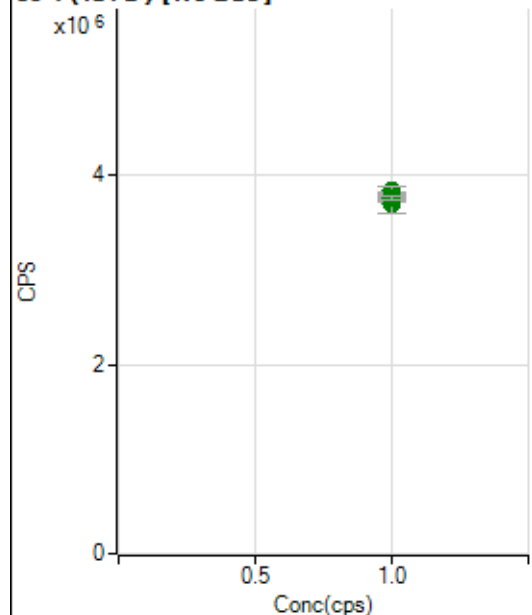
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		619357.49		P	1.1
2	☐	1.000		626747.17		P	0.4
3	☐	1.000		615897.16		P	0.7
4	☐	1.000		619782.67		P	1.0
5	☐	1.000		608268.19		P	4.3
6	☐	1.000		627576.98		P	1.1
7	☐	1.000		619354.47		P	0.6
8	☐	1.000		618515.42		P	0.8

45 Sc (ISTD) [No Gas]

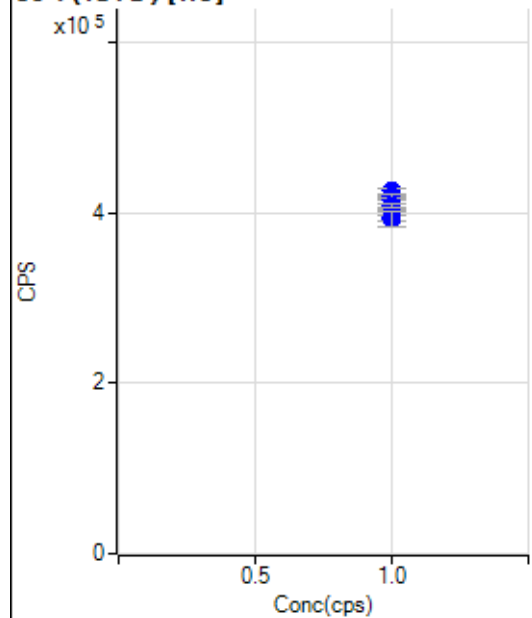
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1474957.95		A	0.4
2	☐	1.000		1503282.50		A	1.5
3	☐	1.000		1482326.02		A	1.8
4	☐	1.000		1476974.32		A	1.9
5	☐	1.000		1453930.01		A	5.2
6	☐	1.000		1477397.38		A	2.3
7	☐	1.000		1452728.50		A	1.3
8	☐	1.000		1449064.16		A	1.2

45 Sc (ISTD) [He]

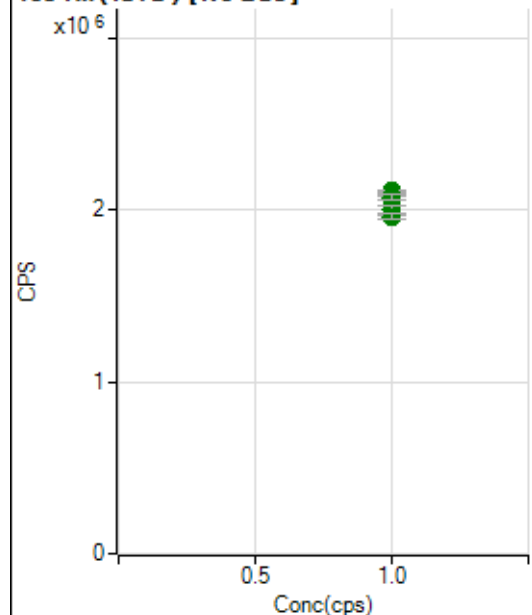
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		45335.75		P	1.8
2	☐	1.000		46685.60		P	1.2
3	☐	1.000		45947.65		P	0.1
4	☐	1.000		45256.73		P	3.3
5	☐	1.000		45676.83		P	2.1
6	☐	1.000		44602.25		P	0.5
7	☐	1.000		43091.08		P	1.3
8	☐	1.000		42152.91		P	4.9

89 Y (ISTD) [No Gas]

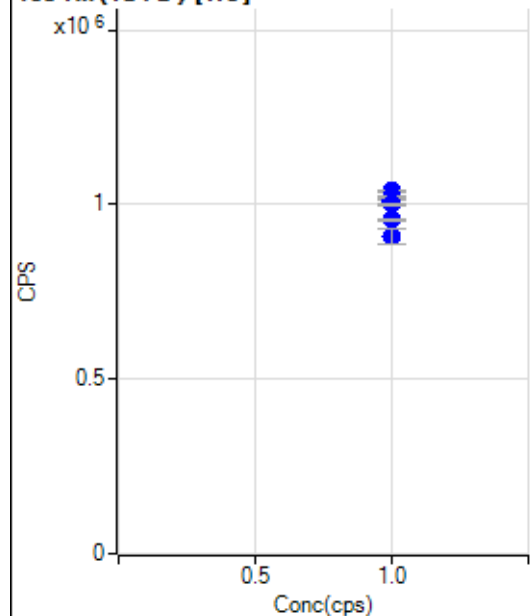
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3735283.63		A	0.7
2	☐	1.000		3814545.05		A	0.1
3	☐	1.000		3801952.79		A	0.4
4	☐	1.000		3785722.65		A	1.2
5	☐	1.000		3705036.30		A	6.0
6	☐	1.000		3833301.16		A	2.0
7	☐	1.000		3750212.93		A	0.8
8	☐	1.000		3759755.64		A	0.8

89 Y (ISTD) [He]

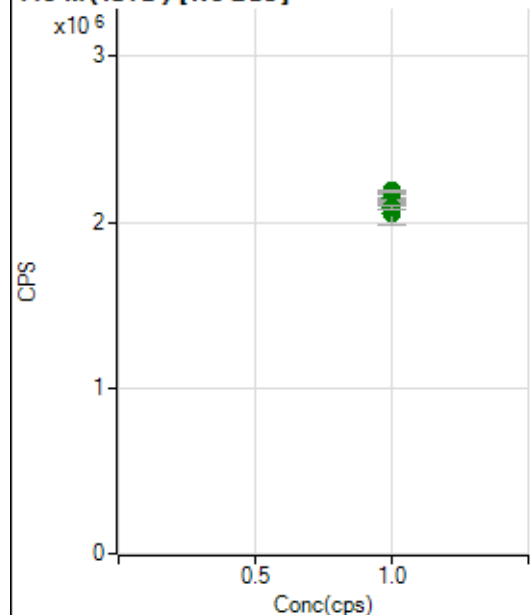
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		410073.70		P	3.2
2	☐	1.000		426051.58		P	1.5
3	☐	1.000		417895.96		P	0.6
4	☐	1.000		415459.83		P	2.6
5	☐	1.000		420648.61		P	1.1
6	☐	1.000		408731.19		P	0.8
7	☐	1.000		394447.41		P	2.1
8	☐	1.000		392795.37		P	4.9

103 Rh (ISTD) [No Gas]

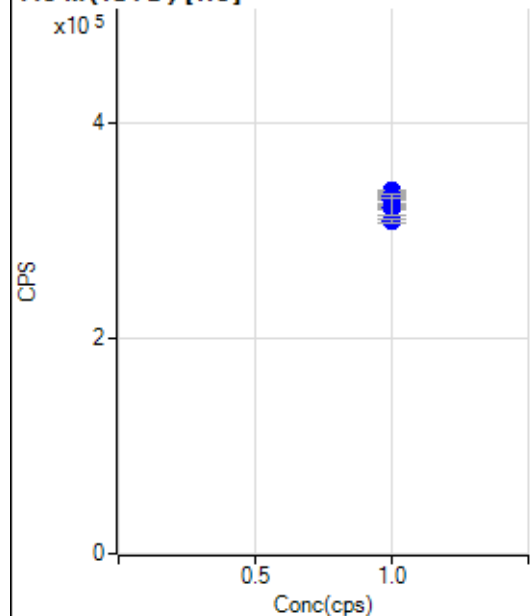
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2105699.16		A	0.2
2	☐	1.000		2110944.08		A	0.2
3	☐	1.000		2084169.34		A	0.1
4	☐	1.000		2071557.44		A	1.4
5	☐	1.000		2027534.33		A	6.3
6	☐	1.000		2074767.56		A	1.6
7	☐	1.000		1997532.77		A	2.5
8	☐	1.000		1962972.46		A	1.5

103 Rh (ISTD) [He]

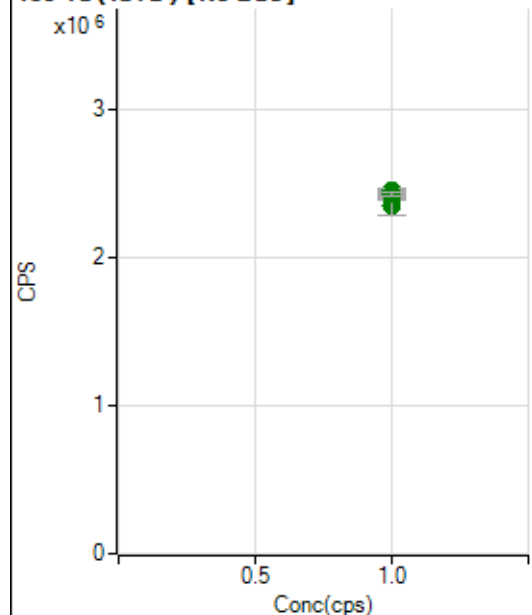
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1008130.98		P	2.4
2	☐	1.000		1039225.39		P	0.3
3	☐	1.000		1019505.45		P	1.1
4	☐	1.000		1012783.15		P	2.5
5	☐	1.000		1022751.85		P	0.8
6	☐	1.000		999818.14		P	0.4
7	☐	1.000		956070.91		P	0.8
8	☐	1.000		910280.12		P	5.0

115 In (ISTD) [No Gas]

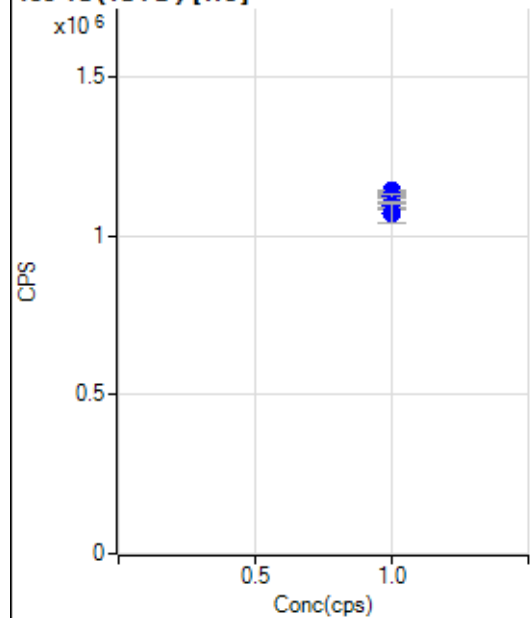
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2132337.74		A	1.1
2	☐	1.000		2150606.05		A	1.5
3	☐	1.000		2105289.91		A	1.0
4	☐	1.000		2097952.02		A	1.6
5	☐	1.000		2051729.16		A	6.1
6	☐	1.000		2130504.88		A	0.9
7	☐	1.000		2088171.12		A	1.3
8	☐	1.000		2189044.75		A	0.8

115 In (ISTD) [He]

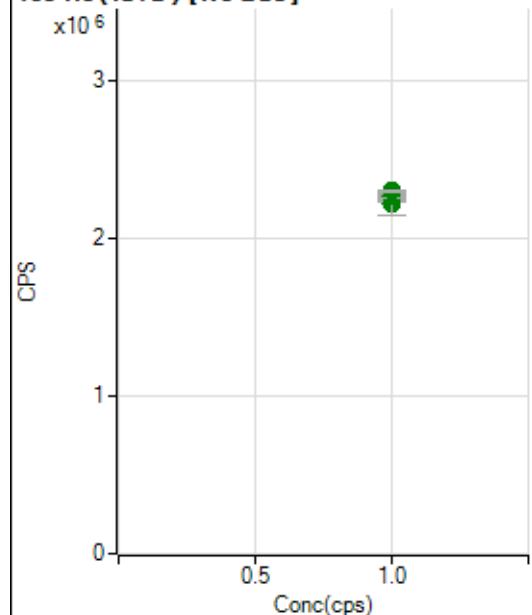
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		323882.86		P	3.0
2	☐	1.000		336673.79		P	0.6
3	☐	1.000		329043.10		P	0.8
4	☐	1.000		327849.02		P	2.1
5	☐	1.000		331529.23		P	1.1
6	☐	1.000		321846.03		P	0.9
7	☐	1.000		308823.22		P	1.6
8	☐	1.000		321889.02		P	5.0

159 Tb (ISTD) [No Gas]

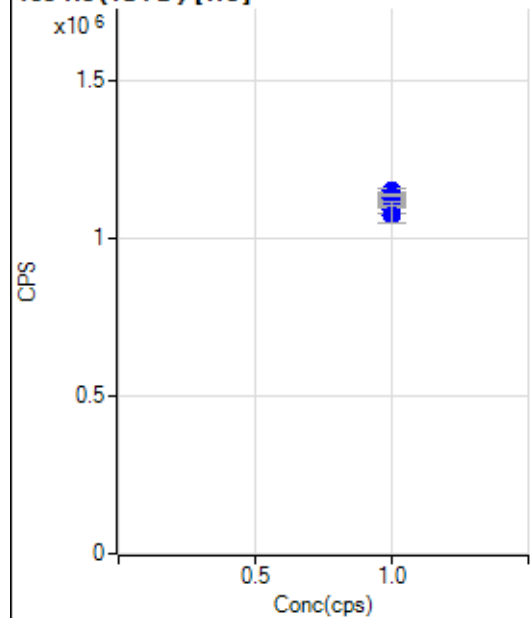
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2414360.14		A	1.1
2	☐	1.000		2432162.32		A	1.8
3	☐	1.000		2408275.07		A	0.8
4	☐	1.000		2424331.02		A	1.2
5	☐	1.000		2349264.13		A	5.6
6	☐	1.000		2453445.05		A	1.2
7	☐	1.000		2454849.41		A	1.3
8	☐	1.000		2428550.63		A	1.1

159 Tb (ISTD) [He]

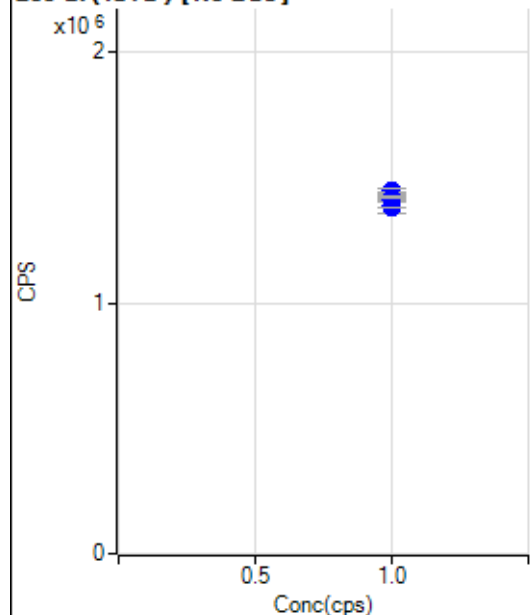
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1093149.80		P	2.3
2	☐	1.000		1129035.85		P	0.5
3	☐	1.000		1124272.80		P	0.5
4	☐	1.000		1120777.02		P	2.3
5	☐	1.000		1140010.26		P	0.5
6	☐	1.000		1124536.50		P	0.8
7	☐	1.000		1094630.24		P	1.6
8	☐	1.000		1069322.24		P	5.2

165 Ho (ISTD) [No Gas]

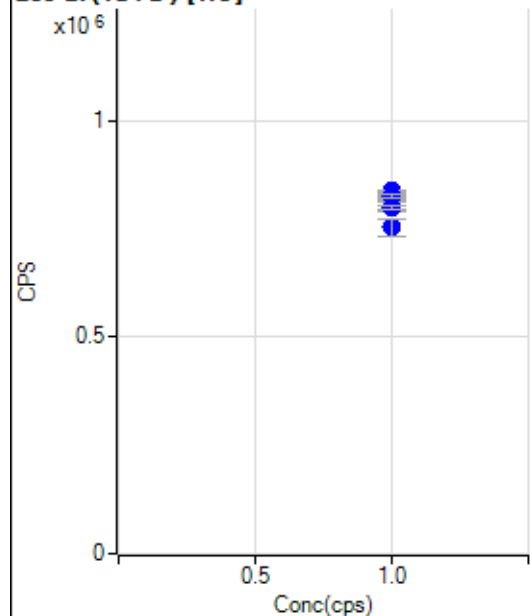
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2266822.88		A	1.9
2	☐	1.000		2258437.20		A	0.8
3	☐	1.000		2255697.07		A	1.5
4	☐	1.000		2264883.56		A	0.9
5	☐	1.000		2222761.10		A	6.6
6	☐	1.000		2292554.22		A	1.2
7	☐	1.000		2271197.64		A	0.9
8	☐	1.000		2303006.04		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1092576.42		P	2.4
2	☐	1.000		1126239.33		P	0.5
3	☐	1.000		1127102.04		P	0.5
4	☐	1.000		1125878.60		P	2.4
5	☐	1.000		1150193.34		P	1.2
6	☐	1.000		1136706.97		P	0.8
7	☐	1.000		1105114.51		P	1.6
8	☐	1.000		1074191.08		P	5.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1418764.30		P	1.2
2	☐	1.000		1437588.73		P	0.4
3	☐	1.000		1416107.71		P	0.9
4	☐	1.000		1415274.02		P	1.8
5	☐	1.000		1392605.48		P	5.0
6	☐	1.000		1447887.69		P	1.1
7	☐	1.000		1421288.31		P	0.5
8	☐	1.000		1381708.05		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		800587.84		P	3.1
2	☐	1.000		827761.59		P	0.5
3	☐	1.000		818927.29		P	0.6
4	☐	1.000		821197.50		P	2.6
5	☐	1.000		836909.26		P	0.6
6	☐	1.000		825504.03		P	0.6
7	☐	1.000		799273.48		P	1.5
8	☐	1.000		753352.97		P	5.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8050720 MS.b
Acq. Date-Time 2020-05-07 12:35:43
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		3638	36375.61			0.420	5.000
24		45388	453876.30			1.024	5.000
25		6237	62372.13			1.092	5.000
26		7280	72803.48			0.674	5.000
59		24881	248811.85			1.555	5.000
113		3892	38917.08			1.418	5.000
115		11160	111603.74			1.431	5.000
206		4332	43322.12			1.645	5.000
207		3612	36119.68			1.744	5.000
208		8871	88709.39			1.377	5.000
220		1	5.10			16.110	

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

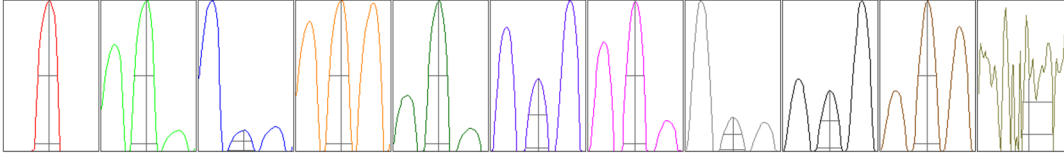
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3630	3647	3623	3660	3629
24	45085	45997	45149	45767	44940
25	6186	6318	6215	6301	6167
26	7255	7347	7248	7317	7234
59	24486	25293	24766	25288	24574
113	3831	3931	3904	3955	3838
115	11101	11350	11129	11280	10943
206	4222	4372	4341	4411	4316
207	3522	3634	3600	3696	3607
208	8713	9001	8882	8973	8786

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	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6094.65	8.95	8.90 - 9.10	
24	77265.00	23.95	23.90 - 24.10	
25	10480.01	24.95	24.90 - 25.10	
26	12158.68	25.95	25.90 - 26.10	
59	43740.53	58.95	58.90 - 59.10	
113	7343.24	113.05	112.90 - 113.10	
115	21035.26	115.00	114.90 - 115.10	
206	7969.71	206.05	205.90 - 206.10	
207	6686.59	207.00	206.90 - 207.10	
208	16650.87	208.00	207.90 - 208.10	
220	0.50	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.787	0.900	
24	0.63	0.823	0.900	
25	0.63	0.828	0.900	
26	0.63	0.824	0.900	
59	0.60	0.782	0.900	
113	0.56	0.734	0.900	
115	0.55	0.735	0.900	
206	0.57	0.804	0.900	
207	0.57	0.788	0.900	
208	0.56	0.815	0.900	
220	0.92	0.973		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	14.6 V
Extract 2	-235.0 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	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.0 mm
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EM

Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5759	57590.29			1.927	
89		11182	111821.34			1.913	
205		12040	120404.67			2.266	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5801	5843	5761	5822	5568
89	11307	11255	11257	11290	10801
205	12260	12103	12177	12094	11567

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-235.0 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	122	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	0.0 mm		
EM					
Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V