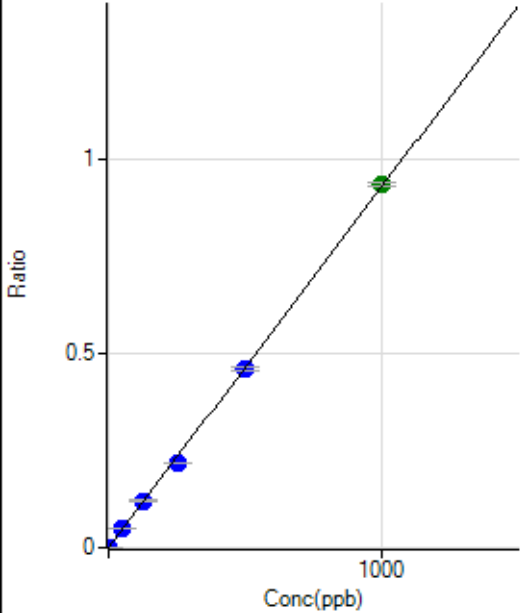


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7122024MS1.b\
 Analysis File: P7122024MS1.batch.bin
 DA Date-Time: 2024-12-22 13:30:37
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-12-20 13:03:39
2	006CALS.d	S02	2024-12-20 13:10:15
3	007CALS.d	S03	2024-12-20 13:13:31
4	008CALS.d	S04	2024-12-20 13:16:32
5	009CALS.d	S05	2024-12-20 13:19:24
6	010CALS.d	S06	2024-12-20 13:22:11
7	011CALS.d	S07	2024-12-20 13:24:55
8	012CALS.d	S08	2024-12-20 13:27:41

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	54.45	0.0000	P	37.9
2	☐	1.000	1.130	1899.03	0.0011	P	3.9
3	☐	50.000	54.705	90848.85	0.0508	P	0.6
4	☐	125.000	130.103	216580.40	0.1207	P	1.4
5	☐	250.000	234.883	398155.16	0.2179	P	1.5
6	☐	500.000	495.252	822621.44	0.4594	P	1.6
7	☐	1000.000	1005.280	1588906.97	0.9325	A	0.9
8	☐			530.02	0.0003	P	3.9

$y = 9.2754E-004 * x + 3.2255E-005$

$R = 0.9998$

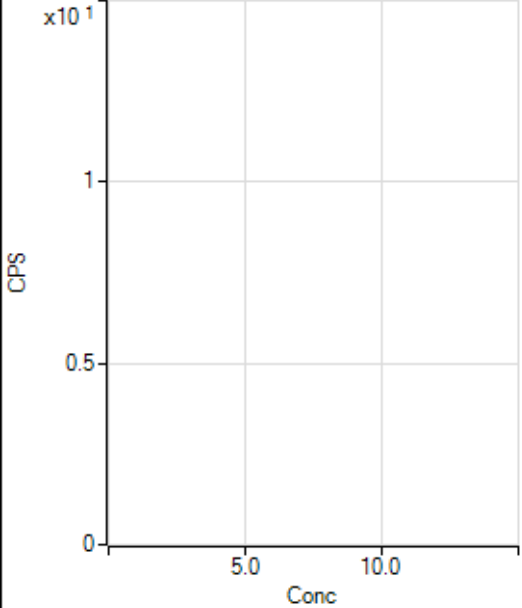
$DL = 0.03951$

$BEC = 0.03478$

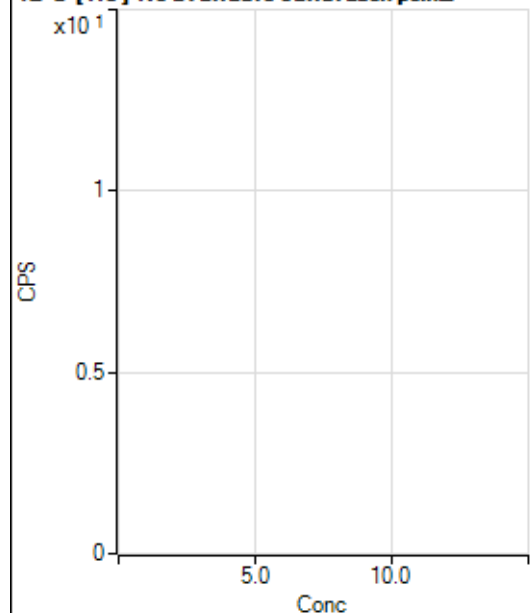
Weight: <None>

Min Conc: 0

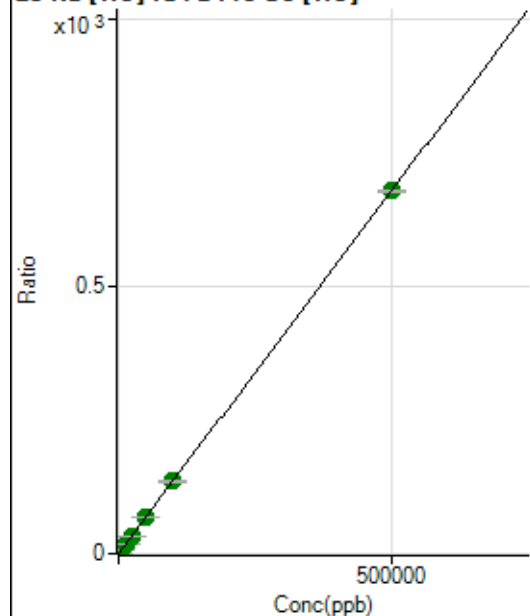
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23092.96	0.0340	P	1.8
2	☐	500.000	513.538	505009.14	0.7312	P	0.4
3	☐	5000.000	5158.559	4787833.96	7.0372	A	3.2
4	☐	12500.000	12755.408	10892154.28	17.3505	A	1.6
5	☐	25000.000	23527.386	19128772.21	31.9744	A	0.3
6	☐	50000.000	50772.140	39757573.85	68.9614	A	0.5
7	☐	100000.00	99744.802	78360258.83	135.4458	A	0.8
8	☐	500000.00	500039.47	411381482.76	678.8791	A	0.3

$$y = 0.0014 * x + 0.0340$$

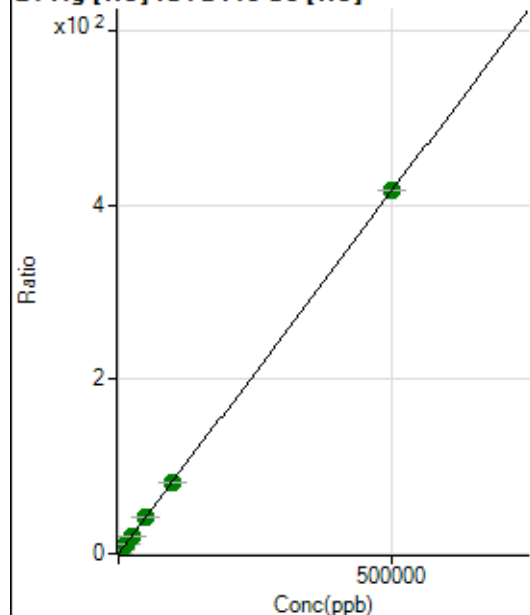
$$R = 1.0000$$

$$DL = 1.338$$

$$BEC = 25.04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1090.05	0.0016	P	2.5
2	☐	500.000	547.670	316057.93	0.4576	P	0.2
3	☐	5000.000	5089.770	2883845.55	4.2393	A	3.8
4	☐	12500.000	12586.630	6579858.51	10.4811	A	0.9
5	☐	25000.000	23293.983	11603605.10	19.3959	A	0.2
6	☐	50000.000	49823.834	23916345.48	41.4844	A	0.7
7	☐	100000.00	97455.229	46944057.08	81.1418	A	0.8
8	☐	500000.00	500608.76	252570191.79	416.8032	A	0.1

$$y = 8.3259\text{E-}004 * x + 0.0016$$

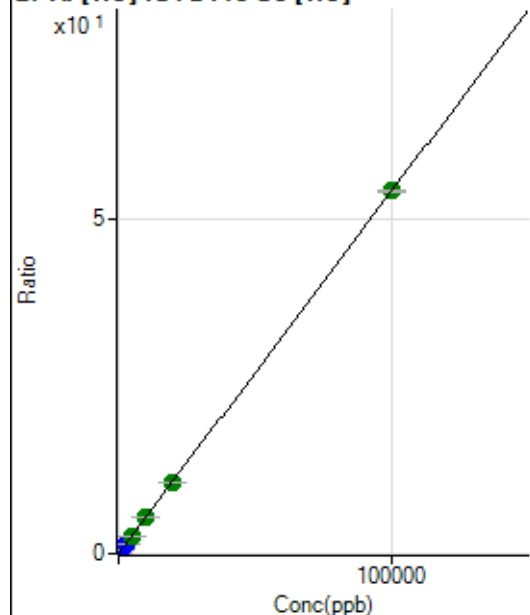
$$R = 1.0000$$

$$DL = 0.1461$$

$$BEC = 1.927$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	92.22	0.0001	P	16.9
2	☐	20.000	20.742	7864.30	0.0114	P	2.1
3	☐	1000.000	1006.989	371664.42	0.5463	P	3.6
4	☐	2500.000	2470.506	841342.35	1.3402	P	0.5
5	☐	5000.000	4681.924	1519395.48	2.5396	A	0.4
6	☐	10000.000	10034.880	3138072.84	5.4431	A	0.5
7	☐	20000.000	19603.048	6151541.02	10.6330	A	0.7
8	☐	100000.00	100092.47	32899030.06	54.2909	A	0.5

$$y = 5.4241\text{E-}004 * x + 1.3558\text{E-}004$$

$$R = 1.0000$$

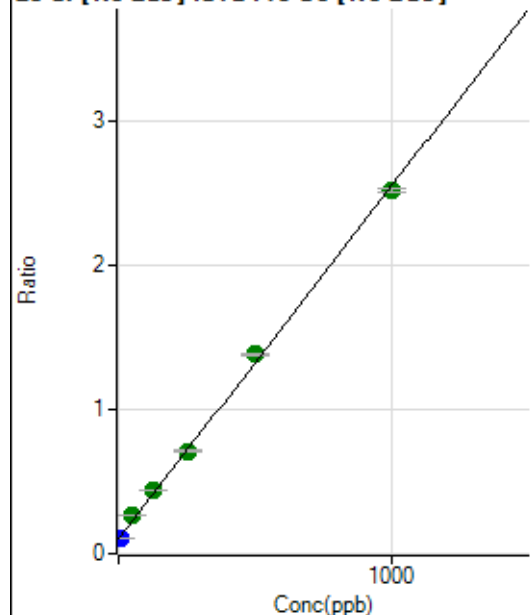
$$DL = 0.1266$$

$$BEC = 0.25$$

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	712332.63	0.1019	P	0.3
2	☐	10.000	1.416	744749.41	0.1053	P	1.0
3	☐	50.000	67.244	1873403.69	0.2661	A	1.7
4	☐	125.000	138.992	3009525.65	0.4413	A	0.7
5	☐	250.000	248.895	4649957.12	0.7097	A	1.1
6	☐	500.000	522.916	8605890.22	1.3789	A	0.3
7	☐	1000.000	986.293	15216197.97	2.5105	A	0.9
8	☐			697826.54	0.1162	P	0.2

$$y = 0.0024 * x + 0.1019$$

$$R = 0.9993$$

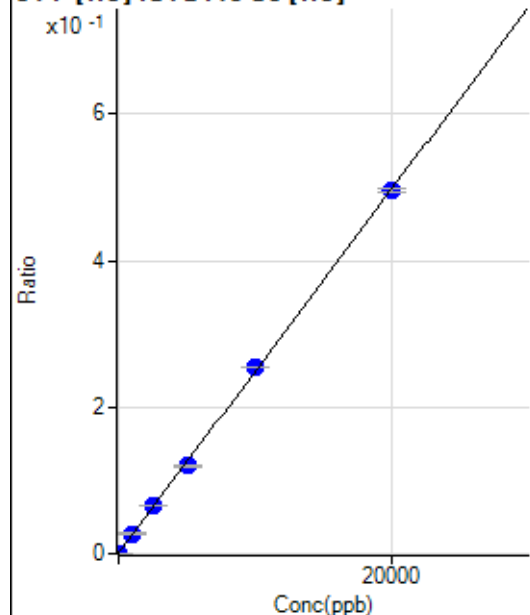
$$DL = 0.3216$$

$$BEC = 41.71$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-17.888	188.89	0.0003	P	8.8
2	☐	0.000	17.888	805.59	0.0012	P	13.4
3	☐	1000.000	1072.678	18606.99	0.0274	P	4.7
4	☐	2500.000	2646.926	41714.46	0.0664	P	1.2
5	☐	5000.000	4797.701	71696.79	0.1199	P	1.5
6	☐	10000.000	10221.671	146742.74	0.2545	P	0.6
7	☐	20000.000	19917.740	286539.47	0.4953	P	0.9
8	☐			297.78	0.0005	P	6.8

$$y = 2.4830E-005 * x + 7.2221E-004$$

$$R = 0.9998$$

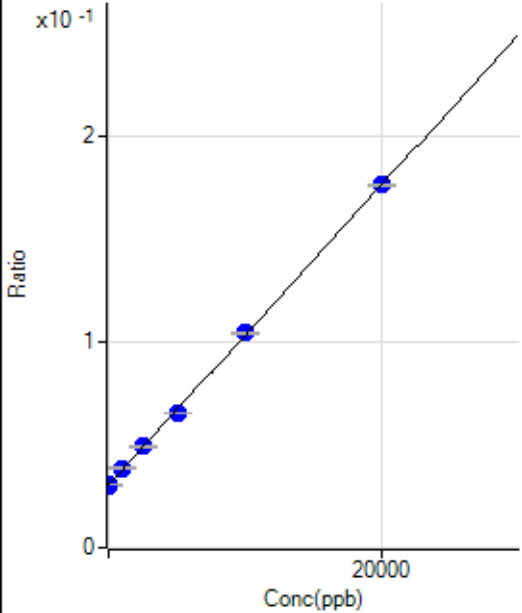
$$DL = 10.94$$

$$BEC = 29.09$$

Weight: <None>

Min Conc: 0

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

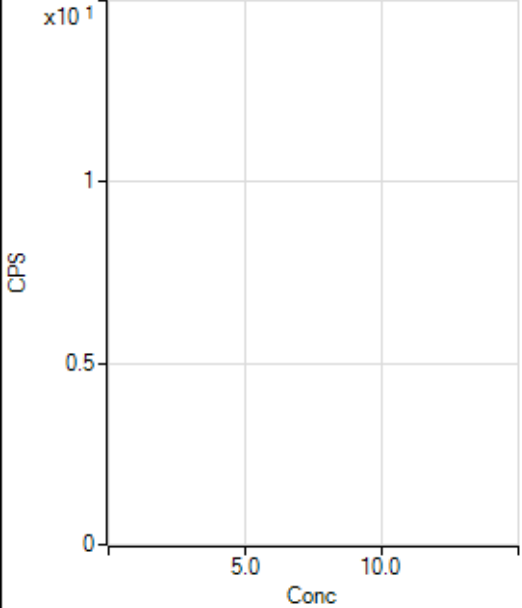


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-72.784	209511.96	0.0300	P	0.3
2	☐	0.000	72.784	219362.64	0.0310	P	1.3
3	☐	1000.000	1122.015	272297.29	0.0387	P	1.8
4	☐	2500.000	2568.548	335645.30	0.0492	P	1.5
5	☐	5000.000	4741.278	426429.38	0.0651	P	0.2
6	☐	10000.000	10109.059	650559.11	0.1042	P	0.4
7	☐	20000.000	19995.482	1068965.28	0.1764	P	0.3
8	☐			170403.95	0.0284	P	2.9

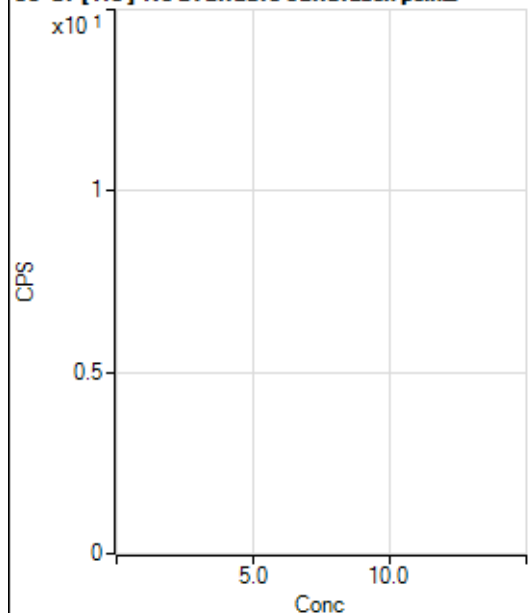
$y = 7.2954E-006 * x + 0.0305$
R = 0.9998
DL = 100.5
BEC = 4179

Weight: <None>
Min Conc: 0

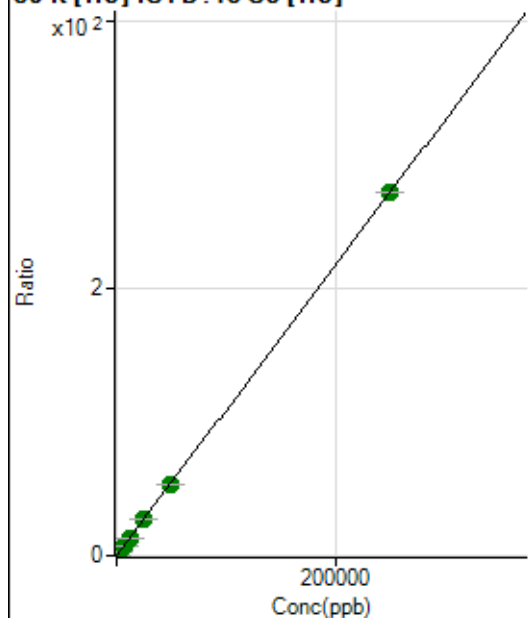
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64792.55	0.0954	P	0.8
2	☐	500.000	551.567	479429.15	0.6941	P	0.1
3	☐	2500.000	2616.878	1997533.48	2.9361	A	3.8
4	☐	6250.000	6332.914	4375749.87	6.9701	A	1.0
5	☐	12500.000	11621.918	7604371.62	12.7115	A	0.9
6	☐	25000.000	24940.220	15663677.82	27.1692	A	0.7
7	☐	50000.000	49264.979	30995392.59	53.5750	A	0.5
8	☐	250000.00	250193.54	164637727.55	271.6929	A	0.1

$$y = 0.0011 * x + 0.0954$$

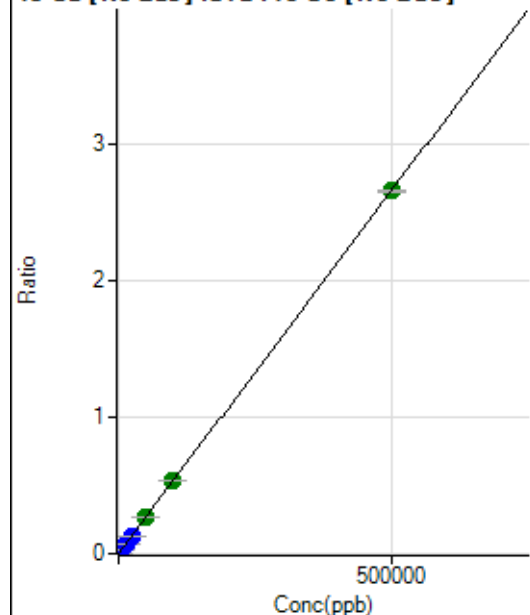
$$R = 1.0000$$

$$DL = 2.002$$

$$BEC = 87.85$$

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	224.45	0.0000	P	10.8
2	☐	500.000	557.100	21179.28	0.0030	P	0.9
3	☐	5000.000	5523.687	207038.32	0.0294	P	2.5
4	☐	12500.000	13100.362	475272.29	0.0697	P	1.1
5	☐	25000.000	24396.687	850362.14	0.1298	P	0.6
6	☐	50000.000	51333.589	1704029.50	0.2730	A	0.5
7	☐	100000.00	100897.14	3252546.20	0.5366	A	0.2
8	☐	500000.00	499697.07	15959647.68	2.6575	A	0.9

$$y = 5.3181E-006 * x + 3.2100E-005$$

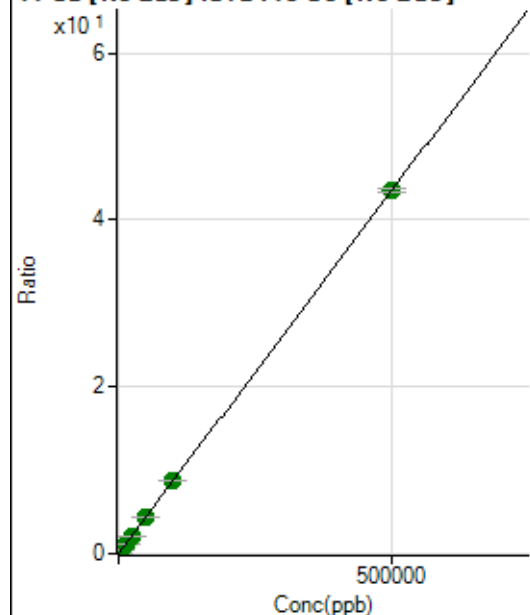
$$R = 1.0000$$

$$DL = 1.948$$

$$BEC = 6.036$$

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	10561.86	0.0015	P	0.2
2	☐	500.000	556.704	352867.47	0.0499	P	0.5
3	☐	5000.000	5263.020	3231451.24	0.4589	A	1.6
4	☐	12500.000	12558.631	7453840.44	1.0930	A	0.7
5	☐	25000.000	23227.766	13238767.44	2.0203	A	0.6
6	☐	50000.000	50320.330	27304503.76	4.3751	A	0.9
7	☐	100000.00	100332.40	52863502.55	8.7218	A	1.0
8	☐	500000.00	499985.94	260985969.44	43.4573	A	1.0

$$y = 8.6914E-005 * x + 0.0015$$

$$R = 1.0000$$

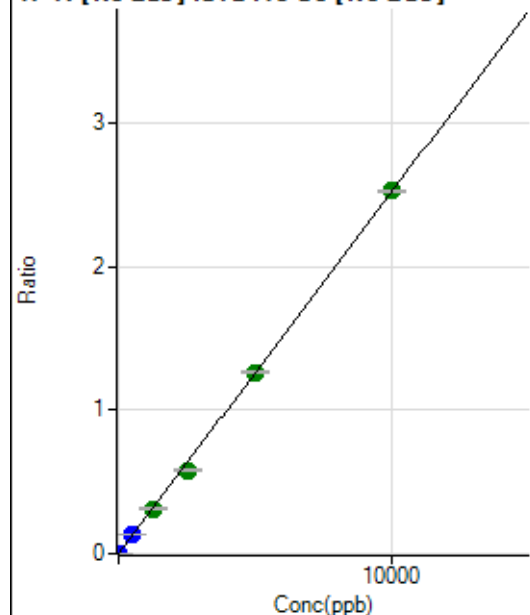
$$DL = 0.1061$$

$$BEC = 17.38$$

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	98.89	0.0000	P	13.2
2	☐	5.000	5.396	9727.63	0.0014	P	1.6
3	☐	500.000	519.040	922057.16	0.1310	P	2.1
4	☐	1250.000	1245.785	2143183.88	0.3143	A	1.2
5	☐	2500.000	2312.022	3822328.00	0.5833	A	0.4
6	☐	5000.000	5025.298	7913158.49	1.2678	A	0.7
7	☐	10000.000	10033.920	15343504.49	2.5315	A	0.5
8	☐			3050.34	0.0005	P	7.3

$$y = 2.5229\text{E-}004 * x + 1.4144\text{E-}005$$

$$R = 0.9998$$

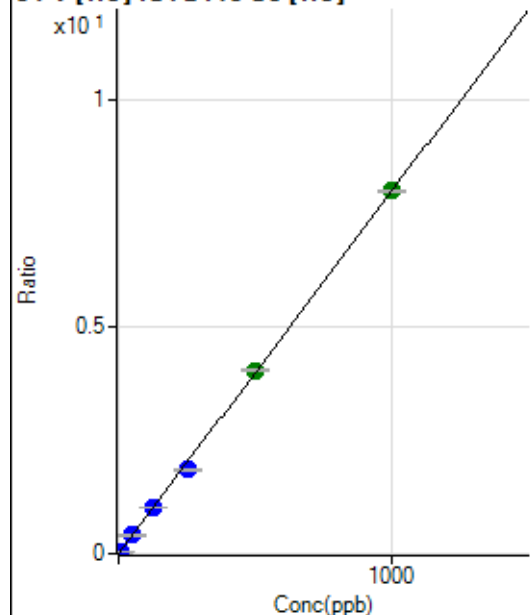
$$DL = 0.02217$$

$$BEC = 0.05606$$

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	13.33	0.0000	P	64.9
2	☐	5.000	5.425	29860.61	0.0432	P	0.5
3	☐	50.000	51.115	277005.14	0.4072	P	3.6
4	☐	125.000	125.775	628977.55	1.0019	P	0.6
5	☐	250.000	231.597	1103633.55	1.8448	P	0.8
6	☐	500.000	505.641	2322058.68	4.0278	A	0.7
7	☐	1000.000	1001.626	4615892.78	7.9786	A	0.8
8	☐			1105.61	0.0018	P	8.8

$$y = 0.0080 * x + 1.9538\text{E-}005$$

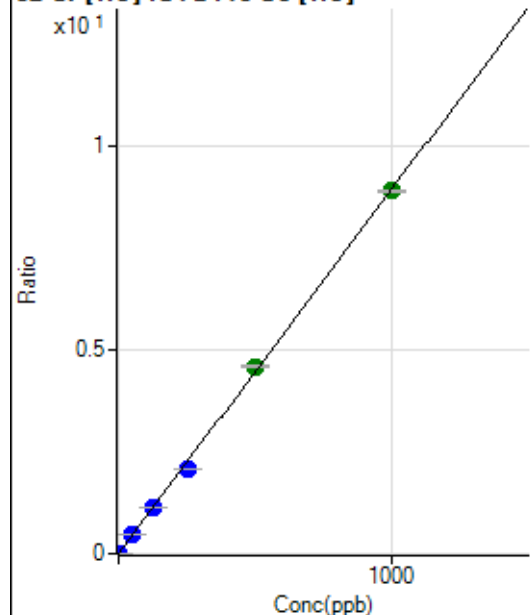
$$R = 0.9998$$

$$DL = 0.004776$$

$$BEC = 0.002453$$

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	1336.74	0.0020	P	4.7
2	☐	2.000	2.183	14854.06	0.0215	P	1.6
3	☐	50.000	52.234	319399.00	0.4694	P	3.1
4	☐	125.000	127.607	718171.13	1.1440	P	0.7
5	☐	250.000	234.021	1254112.39	2.0963	P	0.2
6	☐	500.000	514.451	2655348.83	4.6060	A	1.1
7	☐	1000.000	996.331	5159716.00	8.9185	A	0.8
8	☐			9451.34	0.0156	P	18.9

$$y = 0.0089 * x + 0.0020$$

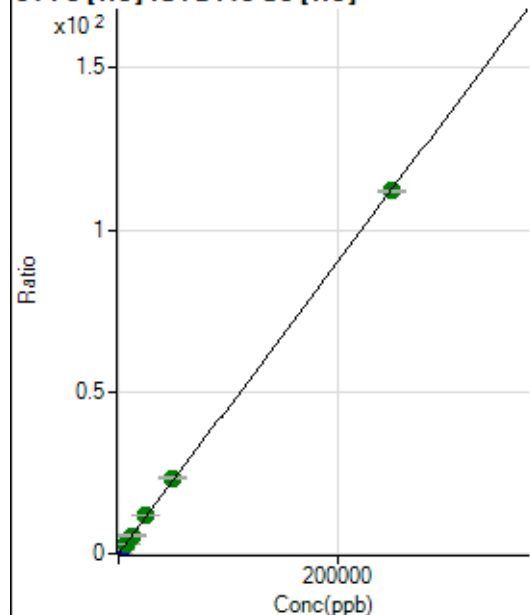
$$R = 0.9997$$

$$DL = 0.03066$$

$$BEC = 0.2198$$

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	2796.95	0.0041	P	0.1
2	☐	50.000	58.814	21094.83	0.0305	P	1.0
3	☐	2500.000	2780.390	852657.45	1.2533	P	3.5
4	☐	6250.000	6789.835	1917727.70	3.0548	A	1.0
5	☐	12500.000	12528.187	3369872.17	5.6330	A	0.8
6	☐	25000.000	26765.118	6935403.72	12.0296	A	0.1
7	☐	50000.000	52085.139	13541207.71	23.4058	A	0.6
8	☐	250000.00	249388.74	67900630.66	112.0537	A	0.4

$$y = 4.4930E-004 * x + 0.0041$$

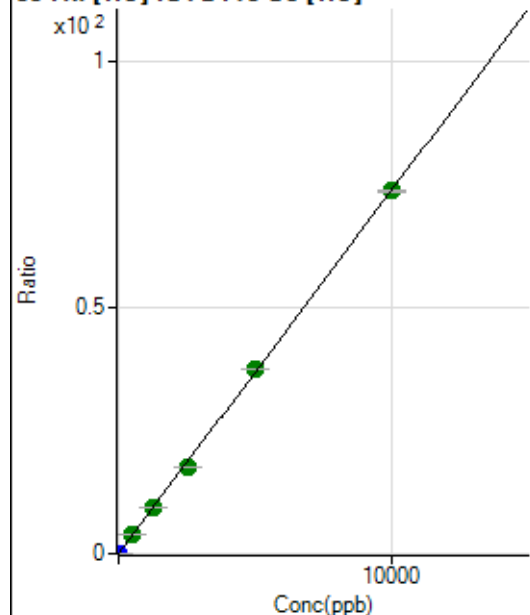
$$R = 0.9999$$

$$DL = 0.03695$$

$$BEC = 9.163$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	290.01	0.0004	P	17.5
2	☐	1.000	1.084	5827.86	0.0084	P	1.2
3	☐	500.000	522.517	2626080.59	3.8599	A	3.4
4	☐	1250.000	1274.352	5909520.82	9.4132	A	0.7
5	☐	2500.000	2371.619	10479976.85	17.5180	A	0.5
6	☐	5000.000	5080.669	21635793.29	37.5280	A	0.3
7	☐	10000.000	9987.591	42680496.31	73.7723	A	0.5
8	☐			21593.89	0.0356	P	3.6

$$y = 0.0074 * x + 4.2742E-004$$

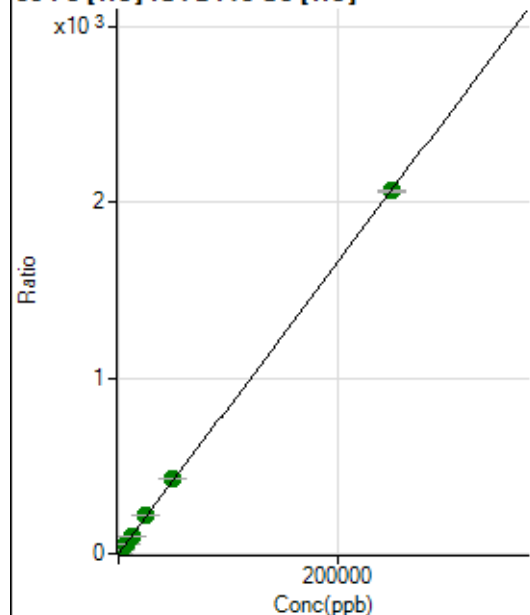
$$R = 0.9998$$

$$DL = 0.03034$$

$$BEC = 0.05787$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19836.51	0.0292	P	0.5
2	☐	50.000	57.333	347609.81	0.5033	P	0.2
3	☐	2500.000	2681.198	15106095.75	22.1996	A	2.6
4	☐	6250.000	6594.808	34252767.54	54.5606	A	0.4
5	☐	12500.000	12272.732	60727556.32	101.5105	A	0.5
6	☐	25000.000	26258.623	125194982.58	217.1576	A	0.6
7	☐	50000.000	51455.030	246172296.33	425.5027	A	0.7
8	☐	250000.00	249584.06	1250586141.3	2,063.800	A	0.3

$$y = 0.0083 * x + 0.0292$$

$$R = 1.0000$$

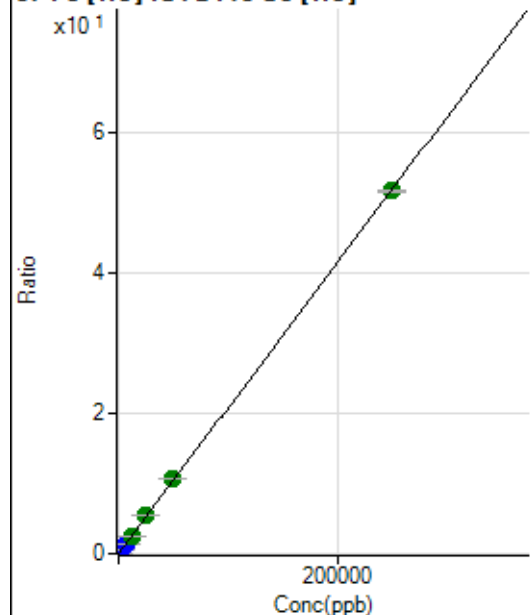
$$DL = 0.05654$$

$$BEC = 3.531$$

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	1302.29	0.0019	P	5.4
2	☐	50.000	59.464	9824.39	0.0142	P	2.6
3	☐	2500.000	2744.819	387767.10	0.5700	P	3.3
4	☐	6250.000	6735.476	876277.38	1.3958	P	0.6
5	☐	12500.000	12364.599	1532018.80	2.5608	A	1.2
6	☐	25000.000	26209.280	3128151.30	5.4259	A	0.5
7	☐	50000.000	51469.720	6163787.48	10.6535	A	0.7
8	☐	250000.00	249577.31	31298634.81	51.6516	A	0.5

$$y = 2.0695E-004 * x + 0.0019$$

$$R = 1.0000$$

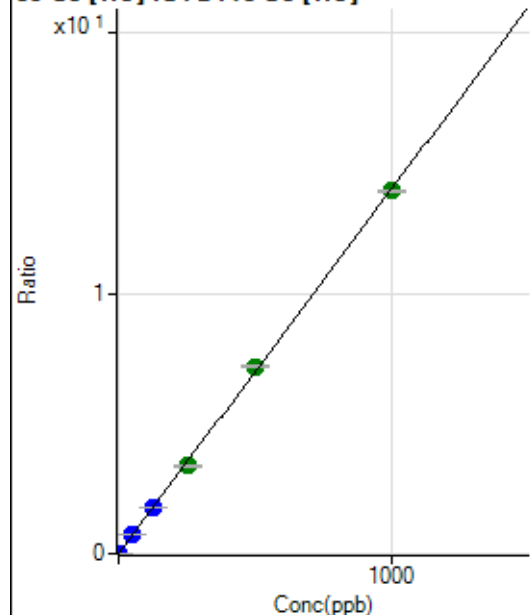
$$DL = 1.492$$

$$BEC = 9.263$$

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	114.45	0.0002	P	23.6
2	☐	1.000	1.147	11200.91	0.0162	P	1.8
3	☐	50.000	52.131	496576.29	0.7299	P	3.1
4	☐	125.000	127.200	1117860.98	1.7806	P	0.6
5	☐	250.000	241.621	2023270.15	3.3822	A	1.4
6	☐	500.000	512.450	4135442.09	7.1731	A	0.8
7	☐	1000.000	995.488	8061882.10	13.9343	A	0.6
8	☐			22443.55	0.0370	P	1.6

$$y = 0.0140 * x + 1.6818E-004$$

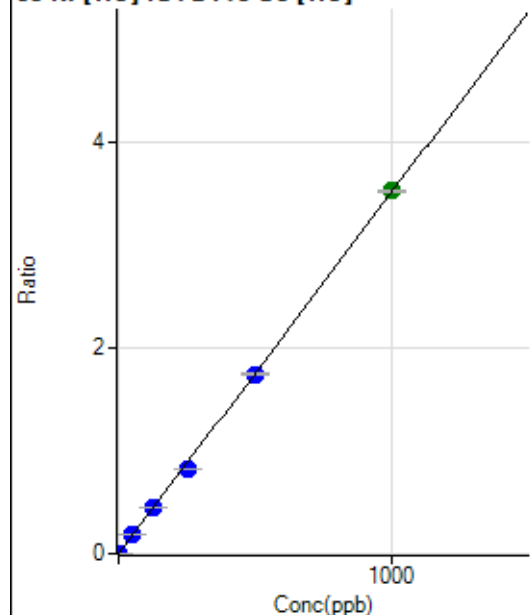
$$R = 0.9998$$

$$DL = 0.008508$$

$$BEC = 0.01202$$

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	381.12	0.0006	P	5.0
2	☐	1.000	1.084	3013.67	0.0044	P	1.9
3	☐	50.000	52.633	126020.25	0.1852	P	3.7
4	☐	125.000	128.644	283745.80	0.4520	P	0.1
5	☐	250.000	235.208	494090.78	0.8259	P	0.5
6	☐	500.000	497.106	1005961.09	1.7449	P	0.7
7	☐	1000.000	1004.558	2039715.75	3.5255	A	0.3
8	☐			8481.36	0.0140	P	1.9

$$y = 0.0035 * x + 5.6079E-004$$

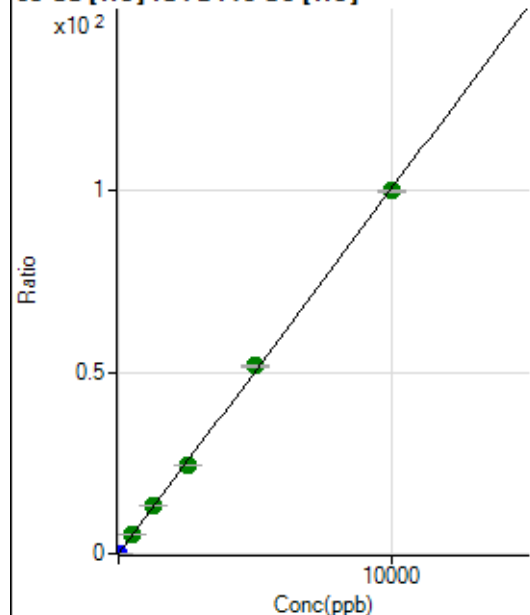
$$R = 0.9998$$

$$DL = 0.02378$$

$$BEC = 0.1598$$

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	763.36	0.0011	P	10.0
2	☐	2.000	2.103	15370.19	0.0223	P	0.7
3	☐	500.000	541.564	3702385.01	5.4425	A	3.7
4	☐	1250.000	1315.629	8299161.47	13.2198	A	1.1
5	☐	2500.000	2424.714	14574798.12	24.3633	A	0.9
6	☐	5000.000	5139.782	29773231.78	51.6428	A	0.4
7	☐	10000.000	9938.648	57772255.81	99.8592	A	0.7
8	☐			11883.69	0.0196	P	4.3

$$y = 0.0100 * x + 0.0011$$

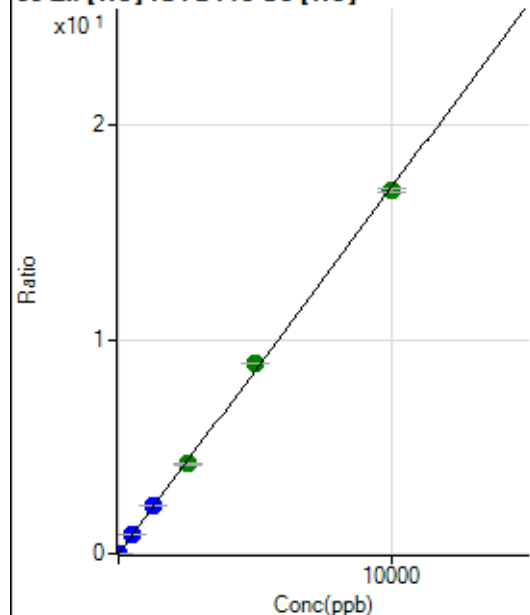
$$R = 0.9998$$

$$DL = 0.03371$$

$$BEC = 0.1118$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	274.45	0.0004	P	3.2
2	☐	5.000	5.440	6709.35	0.0097	P	4.1
3	☐	500.000	528.774	615972.47	0.9053	P	3.1
4	☐	1250.000	1300.667	1397638.52	2.2263	P	0.5
5	☐	2500.000	2444.000	2502442.22	4.1829	A	1.1
6	☐	5000.000	5204.175	5134768.78	8.9065	A	0.5
7	☐	10000.000	9904.140	9806033.26	16.9497	A	0.9
8	☐			10256.94	0.0169	P	1.2

$$y = 0.0017 * x + 4.0393E-004$$

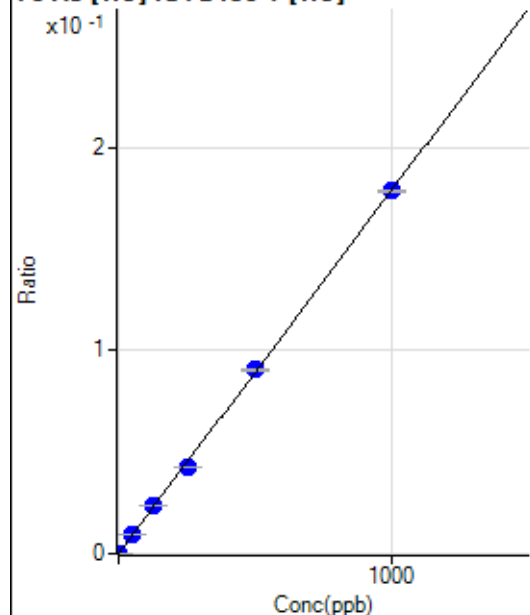
$$R = 0.9997$$

$$DL = 0.02267$$

$$BEC = 0.236$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.57	0.0000	P	42.4
2	☐	1.000	1.195	966.89	0.0002	P	5.8
3	☐	50.000	53.724	42892.16	0.0096	P	4.6
4	☐	125.000	131.425	97626.29	0.0235	P	0.4
5	☐	250.000	238.506	171921.58	0.0427	P	1.3
6	☐	500.000	505.869	354987.14	0.0905	P	0.6
7	☐	1000.000	998.950	691331.11	0.1787	P	0.6
8	☐			487.12	0.0001	P	10.8

$$y = 1.7893E-004 * x + 3.0877E-006$$

$$R = 0.9999$$

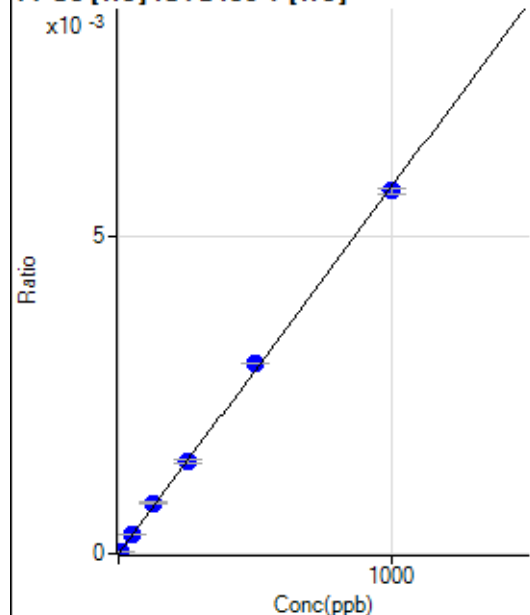
$$DL = 0.02197$$

$$BEC = 0.01726$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.770	148.89	0.0000	P	16.2
3	☐	50.000	53.415	1380.08	0.0003	P	3.2
4	☐	125.000	137.987	3317.07	0.0008	P	1.8
5	☐	250.000	250.179	5836.76	0.0014	P	3.3
6	☐	500.000	518.564	11775.88	0.0030	P	0.3
7	☐	1000.000	988.875	22144.37	0.0057	P	1.8
8	☐			6.67	0.0000	P	0.3

$$y = 5.7904\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

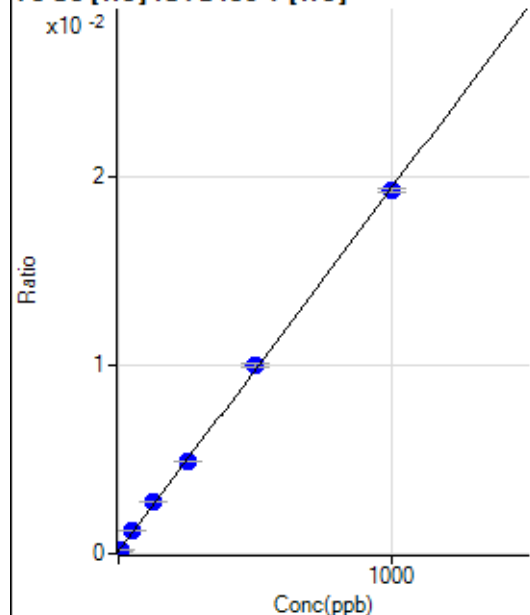
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	536.68	0.0001	P	4.4
2	☐	5.000	5.279	998.93	0.0002	P	2.5
3	☐	50.000	56.173	5375.47	0.0012	P	2.4
4	☐	125.000	135.551	11344.43	0.0027	P	1.2
5	☐	250.000	248.320	19759.93	0.0049	P	0.5
6	☐	500.000	512.461	39186.17	0.0100	P	1.9
7	☐	1000.000	992.560	74411.17	0.0192	P	0.9
8	☐			478.90	0.0001	P	9.5

$$y = 1.9260\text{E-}005 * x + 1.2237\text{E-}004$$

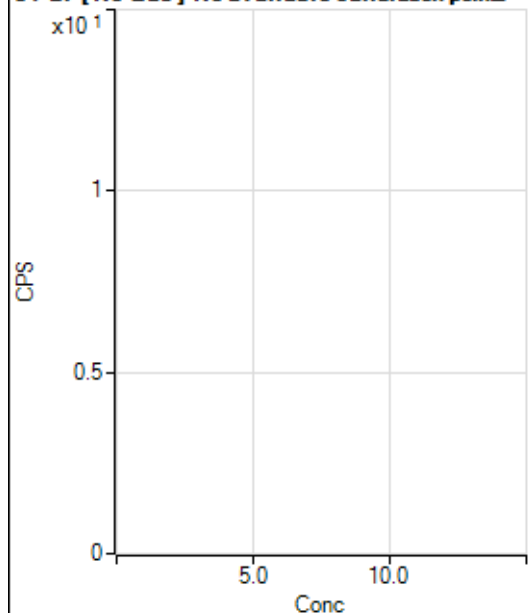
$$R = 0.9998$$

$$DL = 0.8348$$

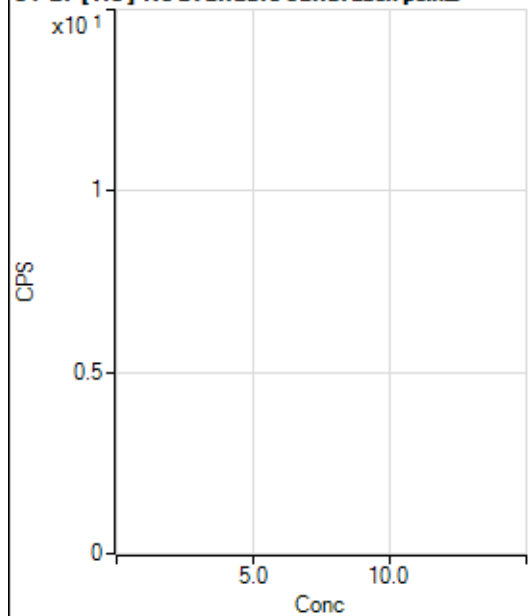
$$BEC = 6.354$$

Weight: <None>

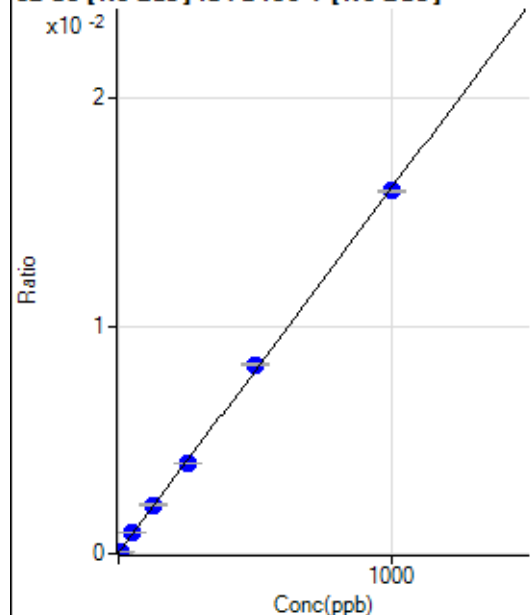
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15703.99		P	1.0
2	☐			16470.42		P	1.2
3	☐			15868.65		P	2.7
4	☐			14868.72		P	4.1
5	☐			14439.38		P	1.2
6	☐			13320.54		P	2.3
7	☐			12972.44		P	0.8
8	☐			13809.87		P	2.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			227.78		P	11.0
2	☐			213.34		P	8.7
3	☐			180.00		P	10.3
4	☐			182.23		P	18.8
5	☐			157.78		P	14.1
6	☐			151.12		P	4.6
7	☐			162.22		P	26.2
8	☐			171.11		P	14.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	562.47	0.0000	P	5.6
2	☐	5.000	5.280	1855.76	0.0001	P	0.8
3	☐	50.000	55.098	13846.25	0.0009	P	1.8
4	☐	125.000	131.550	31013.03	0.0021	P	1.1
5	☐	250.000	244.689	55483.86	0.0040	P	0.9
6	☐	500.000	515.303	111719.77	0.0083	P	0.9
7	☐	1000.000	992.601	211891.25	0.0159	P	0.7
8	☐			664.34	0.0001	P	14.7

$$y = 1.6025E-005 * x + 3.7800E-005$$

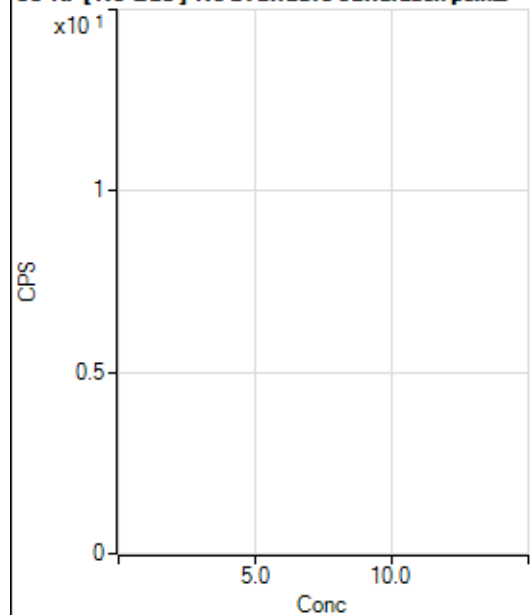
$$R = 0.9998$$

$$DL = 0.3938$$

$$BEC = 2.359$$

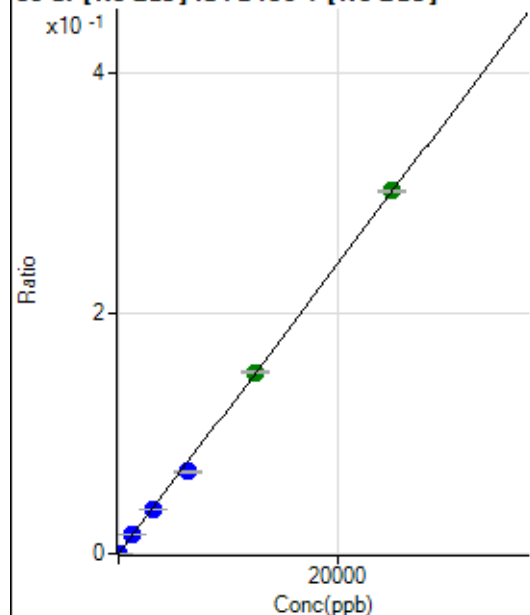
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			243.34		P	3.6
2	☐			230.00		P	9.1
3	☐			281.12		P	3.0
4	☐			205.56		P	13.2
5	☐			218.89		P	16.0
6	☐			207.78		P	2.5
7	☐			203.34		P	9.1
8	☐			234.45		P	14.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	421.12	0.0000	P	11.8
2	☐	1.000	27.090	5373.24	0.0004	P	2.3
3	☐	1250.000	1289.454	233916.59	0.0156	P	1.0
4	☐	3125.000	3080.405	536416.64	0.0371	P	1.2
5	☐	6250.000	5676.077	958221.13	0.0684	P	0.7
6	☐	12500.000	12560.171	2037169.38	0.1513	A	1.1
7	☐	25000.000	25116.996	4019373.83	0.3024	A	0.3
8	☐			12206.24	0.0009	P	2.4

$$y = 1.2040\text{E-}005 * x + 2.8317\text{E-}005$$

$$R = 0.9997$$

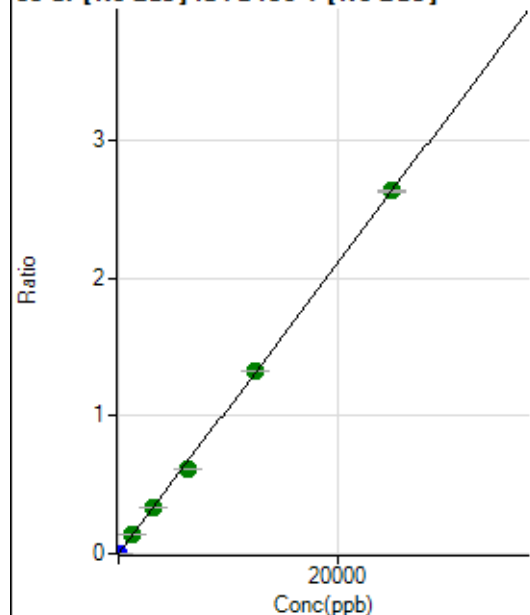
$$DL = 0.8357$$

$$BEC = 2.352$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	118.89	0.0000	P	14.1
2	☐	1.000	26.898	43010.55	0.0028	P	1.3
3	☐	1250.000	1315.245	2080392.97	0.1383	A	1.4
4	☐	3125.000	3170.141	4818669.03	0.3334	A	0.9
5	☐	6250.000	5815.768	8572209.39	0.6116	A	1.2
6	☐	12500.000	12626.687	17885057.65	1.3279	A	0.6
7	☐	25000.000	25036.309	34992583.09	2.6330	A	0.5
8	☐			103083.33	0.0079	P	1.2

$$y = 1.0517\text{E-}004 * x + 7.9962\text{E-}006$$

$$R = 0.9998$$

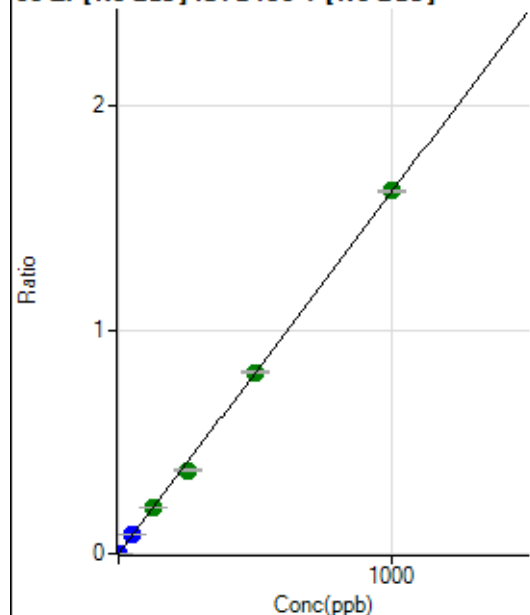
$$DL = 0.03215$$

$$BEC = 0.07603$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	670.03	0.0000	P	3.4
2	☐	1.000	1.050	26400.43	0.0017	P	1.2
3	☐	50.000	51.314	1247279.04	0.0829	P	1.0
4	☐	125.000	126.806	2961033.50	0.2049	A	1.2
5	☐	250.000	231.174	5233922.77	0.3735	A	1.4
6	☐	500.000	501.994	10921460.39	0.8109	A	0.7
7	☐	1000.000	1003.418	21541075.51	1.6209	A	0.3
8	☐			14245.89	0.0011	P	3.2

$$y = 0.0016 * x + 4.5011E-005$$

$$R = 0.9998$$

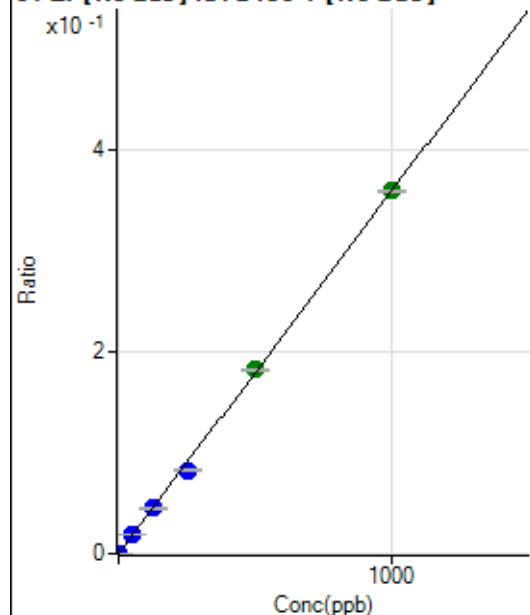
$$DL = 0.002852$$

$$BEC = 0.02787$$

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	126.67	0.0000	P	18.0
2	☐	1.000	1.059	5880.11	0.0004	P	5.7
3	☐	50.000	51.643	278358.73	0.0185	P	1.2
4	☐	125.000	125.097	647801.28	0.0448	P	0.9
5	☐	250.000	229.950	1154640.51	0.0824	P	0.8
6	☐	500.000	507.343	2447934.68	0.1818	A	0.4
7	☐	1000.000	1001.247	4766904.93	0.3587	A	0.4
8	☐			3175.93	0.0002	P	2.1

$$y = 3.5823E-004 * x + 8.5078E-006$$

$$R = 0.9997$$

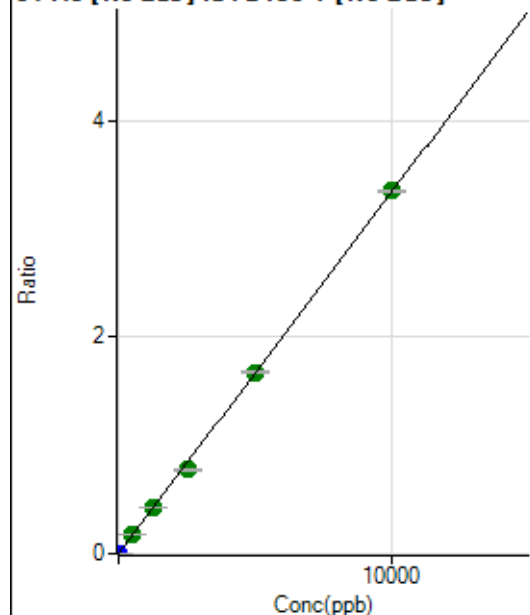
$$DL = 0.01283$$

$$BEC = 0.02375$$

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	278.90	0.0000	P	2.1
2	☐	5.000	6.174	31498.31	0.0021	P	2.2
3	☐	500.000	527.508	2646044.20	0.1759	A	1.5
4	☐	1250.000	1260.066	6074236.51	0.4203	A	0.5
5	☐	2500.000	2315.123	10822441.65	0.7721	A	0.3
6	☐	5000.000	5014.162	22522506.05	1.6723	A	0.7
7	☐	10000.000	10036.504	44484862.11	3.3473	A	0.4
8	☐			13310.58	0.0010	P	4.7

$$y = 3.3351E-004 * x + 1.8737E-005$$

$$R = 0.9998$$

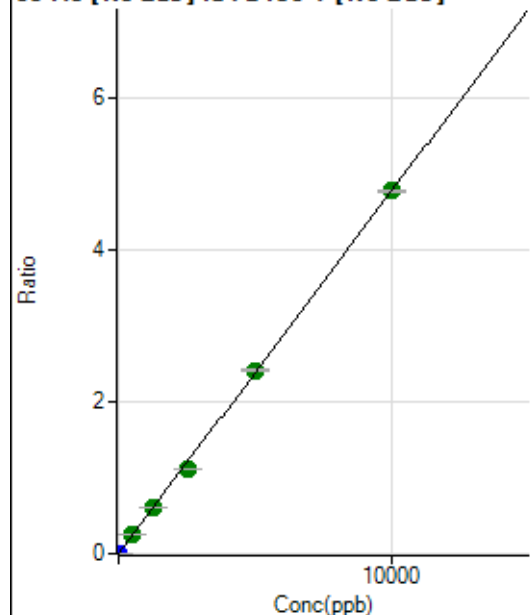
$$DL = 0.003457$$

$$BEC = 0.05618$$

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	144.45	0.0000	P	7.3
2	☐	5.000	5.306	38566.39	0.0025	P	3.0
3	☐	500.000	529.016	3800999.39	0.2527	A	1.2
4	☐	1250.000	1270.219	8770638.55	0.6068	A	0.6
5	☐	2500.000	2342.702	15686874.35	1.1192	A	0.2
6	☐	5000.000	5059.906	32555679.52	2.4173	A	1.0
7	☐	10000.000	10005.393	63523368.50	4.7799	A	0.3
8	☐			13347.31	0.0010	P	7.4

$$y = 4.7773E-004 * x + 9.7086E-006$$

$$R = 0.9998$$

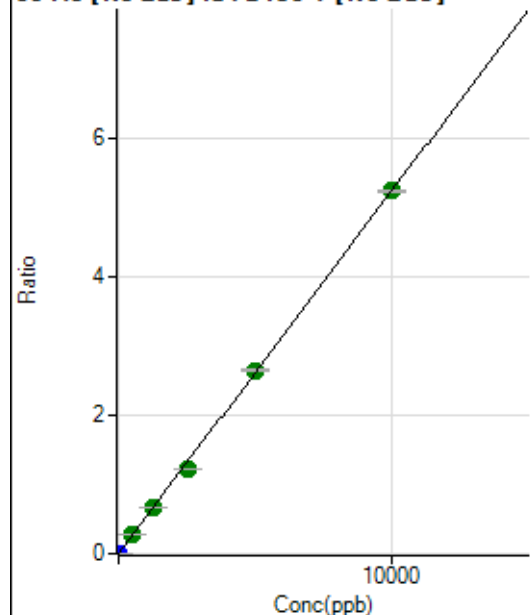
$$DL = 0.004432$$

$$BEC = 0.02032$$

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	223.34	0.0000	P	12.6
2	☐	5.000	5.382	43013.28	0.0028	P	1.9
3	☐	500.000	527.951	4164019.73	0.2769	A	1.1
4	☐	1250.000	1267.181	9604641.52	0.6645	A	0.6
5	☐	2500.000	2336.148	17171919.05	1.2251	A	0.7
6	☐	5000.000	5061.234	35746376.97	2.6542	A	0.6
7	☐	10000.000	10006.801	69739942.85	5.2476	A	0.6
8	☐			25097.18	0.0019	P	3.4

$$y = 5.2441\text{E-}004 * x + 1.5016\text{E-}005$$

$$R = 0.9998$$

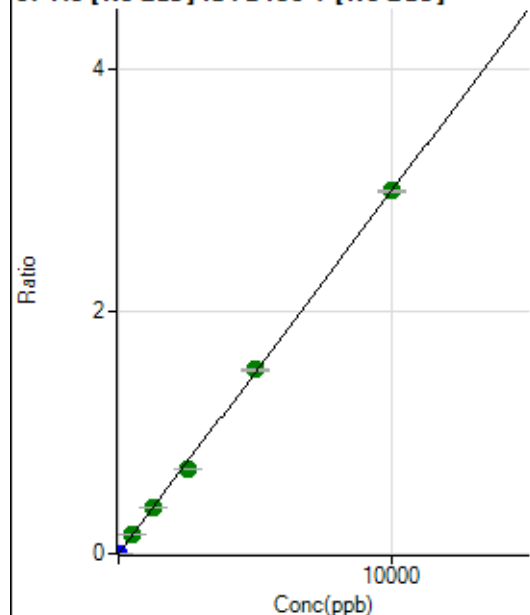
$$DL = 0.01081$$

$$BEC = 0.02863$$

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	97.78	0.0000	P	12.1
2	☐	5.000	5.370	24465.10	0.0016	P	3.5
3	☐	500.000	529.877	2385946.86	0.1586	A	1.1
4	☐	1250.000	1262.476	5463417.97	0.3780	A	0.1
5	☐	2500.000	2328.892	9772579.92	0.6973	A	0.6
6	☐	5000.000	5071.028	20446835.11	1.5182	A	1.3
7	☐	10000.000	10004.209	39805274.13	2.9952	A	0.7
8	☐			8318.00	0.0006	P	10.1

$$y = 2.9939\text{E-}004 * x + 6.5752\text{E-}006$$

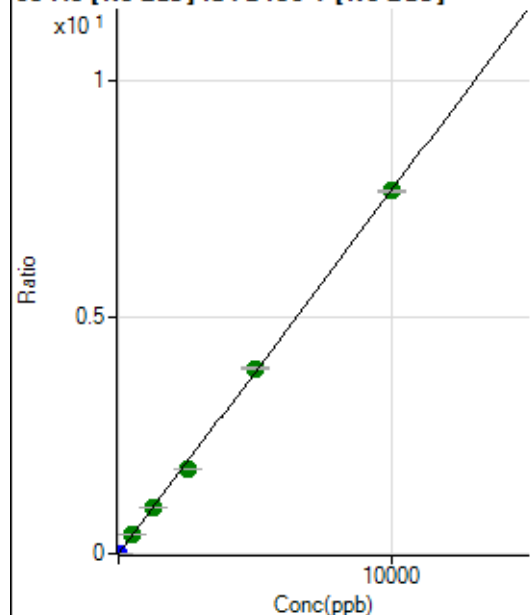
$$R = 0.9998$$

$$DL = 0.007962$$

$$BEC = 0.02196$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	271.12	0.0000	P	9.5
2	☐	5.000	5.254	61555.01	0.0041	P	2.2
3	☐	500.000	525.864	6085104.70	0.4046	A	0.9
4	☐	1250.000	1269.979	14122283.82	0.9771	A	0.9
5	☐	2500.000	2332.635	25152849.90	1.7947	A	1.0
6	☐	5000.000	5106.916	52916972.54	3.9292	A	0.9
7	☐	10000.000	9984.593	102090982.92	7.6819	A	0.7
8	☐			20695.97	0.0016	P	9.4

$$y = 7.6938\text{E-}004 * x + 1.8225\text{E-}005$$

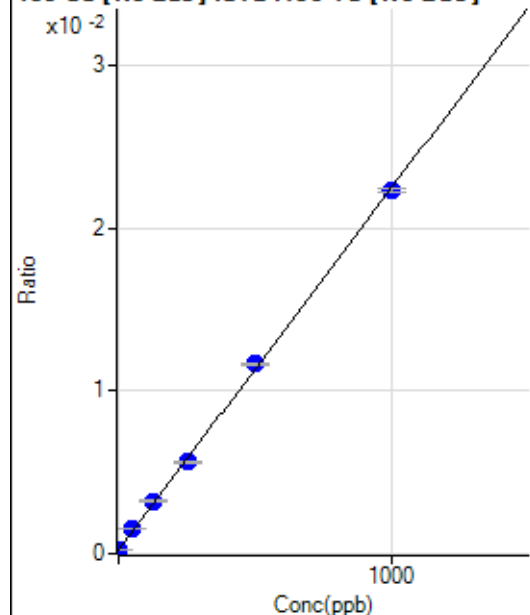
$$R = 0.9997$$

$$DL = 0.006784$$

$$BEC = 0.02369$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3650.49	0.0002	P	3.1
2	☐	1.000	1.858	4377.36	0.0003	P	3.7
3	☐	50.000	58.664	24645.40	0.0015	P	3.2
4	☐	125.000	135.422	51197.65	0.0032	P	1.1
5	☐	250.000	244.076	88690.82	0.0057	P	2.2
6	☐	500.000	514.707	177180.66	0.0117	P	1.0
7	☐	1000.000	992.390	336058.53	0.0223	P	1.2
8	☐			3441.56	0.0002	P	4.9

$$y = 2.2249\text{E-}005 * x + 2.3373\text{E-}004$$

$$R = 0.9998$$

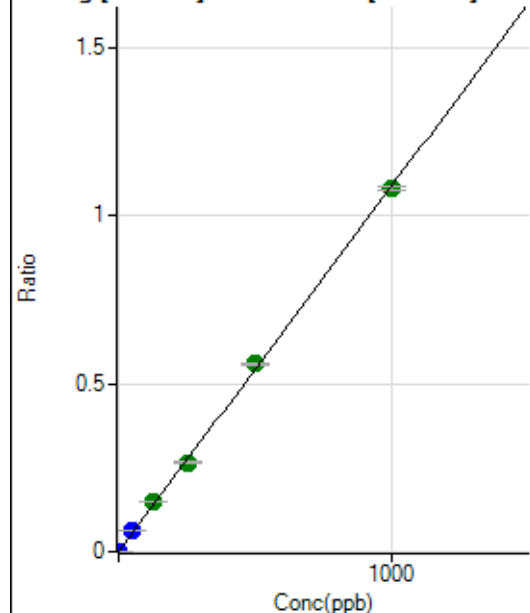
$$DL = 0.9866$$

$$BEC = 10.51$$

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	92.22	0.0000	P	19.6
2	☐	1.000	1.105	19199.45	0.0012	P	2.8
3	☐	50.000	56.410	982019.49	0.0613	P	1.9
4	☐	125.000	136.227	2334851.49	0.1481	A	0.6
5	☐	250.000	242.966	4135116.57	0.2641	A	1.9
6	☐	500.000	514.211	8473970.57	0.5589	A	0.6
7	☐	1000.000	992.929	16253079.20	1.0791	A	0.9
8	☐			3668.28	0.0003	P	11.1

$$y = 0.0011 * x + 5.9022E-006$$

$$R = 0.9998$$

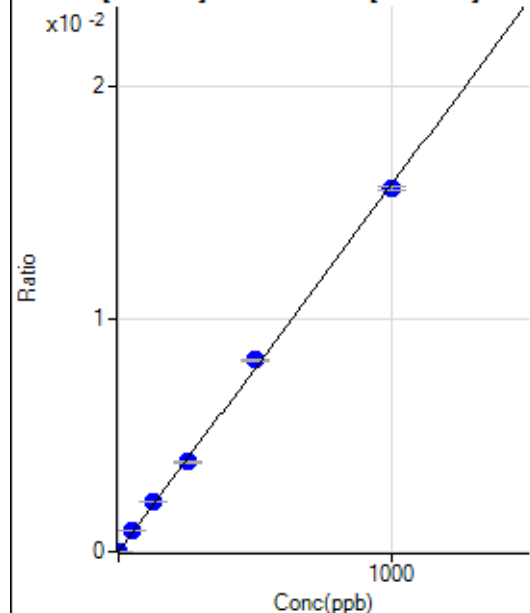
$$DL = 0.003194$$

$$BEC = 0.005431$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10.00	0.0000	P	66.6
2	☐	1.000	1.272	328.90	0.0000	P	16.7
3	☐	50.000	57.667	14559.61	0.0009	P	1.7
4	☐	125.000	137.903	34266.05	0.0022	P	0.3
5	☐	250.000	243.988	60191.85	0.0038	P	1.7
6	☐	500.000	521.605	124592.58	0.0082	P	1.5
7	☐	1000.000	988.704	234581.23	0.0156	P	0.9
8	☐			125.56	0.0000	P	22.7

$$y = 1.5752E-005 * x + 6.3936E-007$$

$$R = 0.9996$$

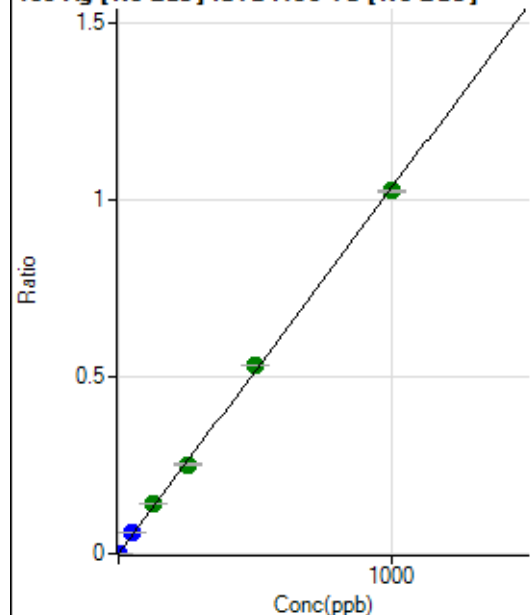
$$DL = 0.08105$$

$$BEC = 0.04059$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	48.89	0.0000	P	34.7
2	☐	1.000	1.110	18316.10	0.0012	P	1.9
3	☐	50.000	56.347	933630.04	0.0583	P	1.9
4	☐	125.000	135.066	2203399.86	0.1397	A	0.2
5	☐	250.000	244.164	3955138.86	0.2526	A	1.7
6	☐	500.000	515.165	8080737.17	0.5329	A	0.5
7	☐	1000.000	992.301	15460921.99	1.0265	A	0.6
8	☐			3328.20	0.0002	P	9.7

$$y = 0.0010 * x + 3.1331E-006$$

$$R = 0.9998$$

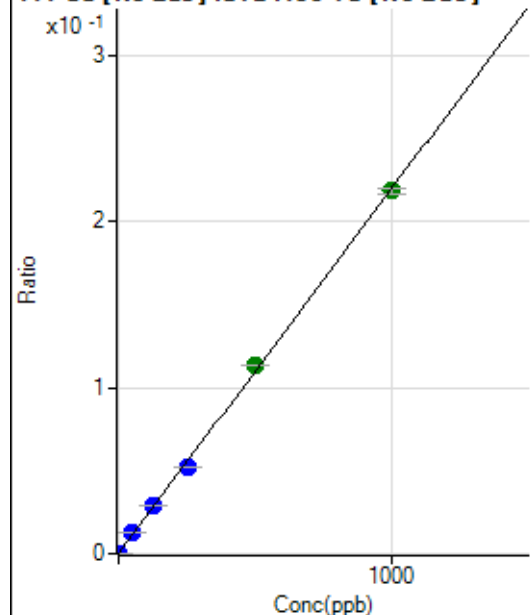
$$DL = 0.003155$$

$$BEC = 0.003029$$

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	2561.67	0.0002	P	3.4
2	☐	1.000	1.176	6720.04	0.0004	P	3.0
3	☐	50.000	56.123	199999.79	0.0125	P	1.3
4	☐	125.000	130.762	455323.90	0.0289	P	0.6
5	☐	250.000	236.515	815708.66	0.0521	P	1.5
6	☐	500.000	515.894	1720011.77	0.1134	A	0.2
7	☐	1000.000	994.398	3290676.81	0.2185	A	1.4
8	☐			3071.23	0.0002	P	5.2

$$y = 2.1956E-004 * x + 1.6401E-004$$

$$R = 0.9997$$

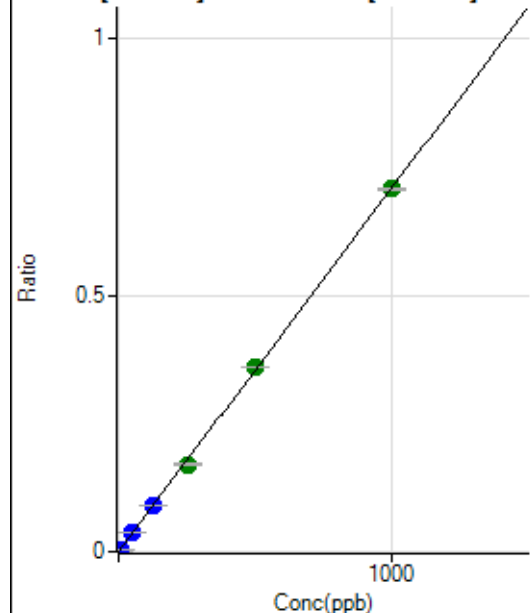
$$DL = 0.07615$$

$$BEC = 0.747$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1528.98	0.0001	P	4.9
2	☐	5.000	5.675	65531.35	0.0041	P	0.9
3	☐	50.000	53.811	612248.89	0.0382	P	1.9
4	☐	125.000	125.898	1408339.75	0.0893	P	0.7
5	☐	250.000	239.992	2664219.18	0.1701	A	1.8
6	☐	500.000	506.925	5448041.31	0.3593	A	0.5
7	☐	1000.000	998.733	10660108.73	0.7078	A	0.4
8	☐			4805.29	0.0003	P	0.9

$$y = 7.0857\text{E-}004 * x + 9.7899\text{E-}005$$

$$R = 0.9999$$

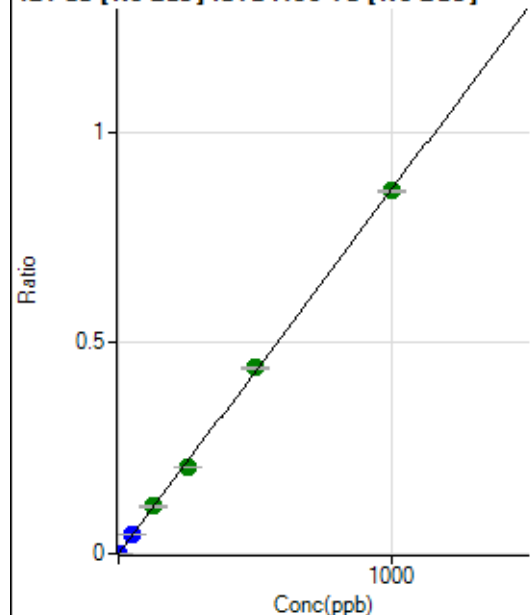
$$DL = 0.02049$$

$$BEC = 0.1382$$

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	62.22	0.0000	P	15.9
2	☐	2.000	2.152	29598.25	0.0019	P	2.1
3	☐	50.000	53.007	732665.26	0.0457	P	1.7
4	☐	125.000	129.518	1762515.93	0.1118	A	1.5
5	☐	250.000	237.357	3207175.72	0.2048	A	1.6
6	☐	500.000	511.515	6692710.18	0.4414	A	0.8
7	☐	1000.000	996.688	12953506.33	0.8601	A	0.7
8	☐			7006.23	0.0005	P	5.4

$$y = 8.6291\text{E-}004 * x + 3.9859\text{E-}006$$

$$R = 0.9998$$

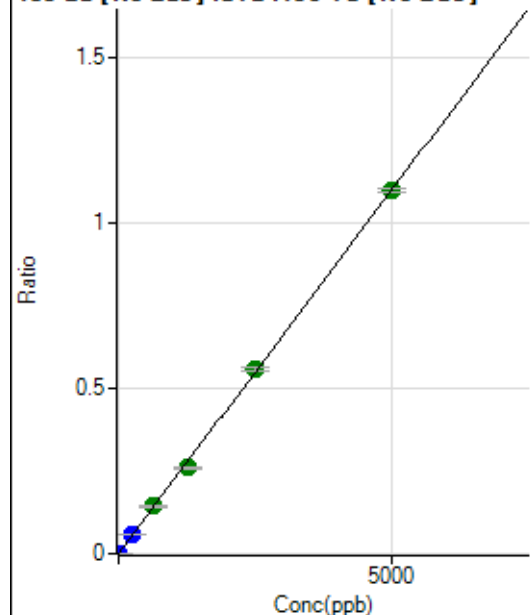
$$DL = 0.002205$$

$$BEC = 0.004619$$

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	30.00	0.0000	P	19.1
2	☐	10.000	10.832	37861.34	0.0024	P	1.2
3	☐	250.000	262.147	921856.63	0.0576	P	1.6
4	☐	625.000	649.418	2248365.68	0.1426	A	0.6
5	☐	1250.000	1181.000	4060298.76	0.2593	A	0.9
6	☐	2500.000	2541.559	8460593.97	0.5580	A	1.2
7	☐	5000.000	4992.809	16509346.14	1.0962	A	1.1
8	☐			7696.60	0.0005	P	6.1

$$y = 2.1955\text{E-}004 * x + 1.9208\text{E-}006$$

$$R = 0.9998$$

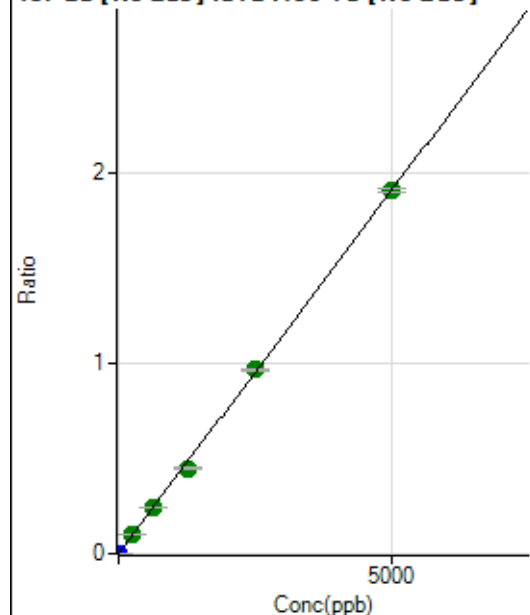
$$DL = 0.005007$$

$$BEC = 0.008749$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	57.78	0.0000	P	31.5
2	☐	10.000	10.687	64904.89	0.0041	P	0.5
3	☐	250.000	270.750	1654195.01	0.1033	A	0.9
4	☐	625.000	645.268	3881140.25	0.2461	A	0.1
5	☐	1250.000	1176.057	7023775.73	0.4486	A	1.8
6	☐	2500.000	2536.670	14670255.20	0.9675	A	1.0
7	☐	5000.000	4996.578	28702735.41	1.9058	A	1.2
8	☐			13625.52	0.0009	P	1.9

$$y = 3.8142\text{E-}004 * x + 3.6965\text{E-}006$$

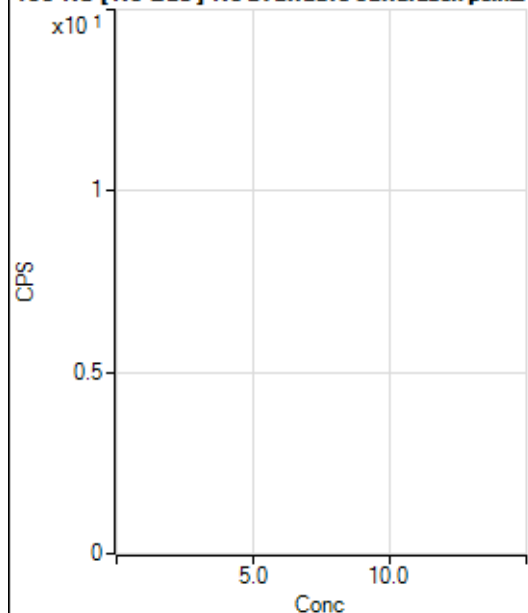
$$R = 0.9998$$

$$DL = 0.009148$$

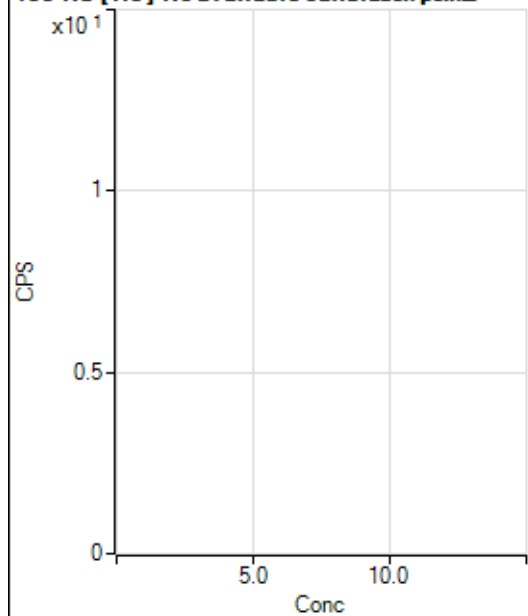
$$BEC = 0.009691$$

Weight: <None>

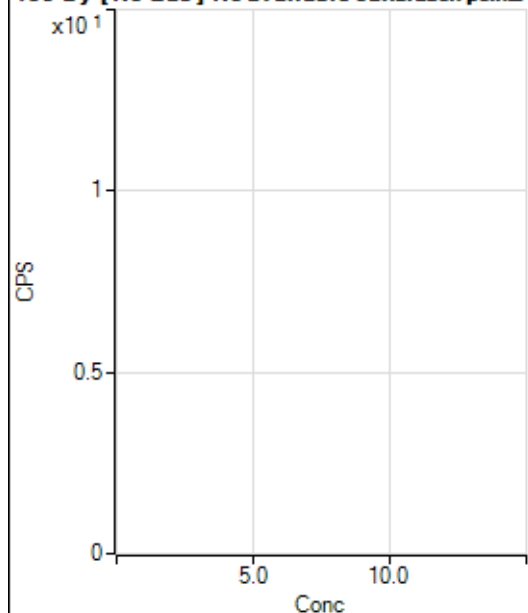
Min Conc: 0

150 Nd [No Gas] No available calibration points

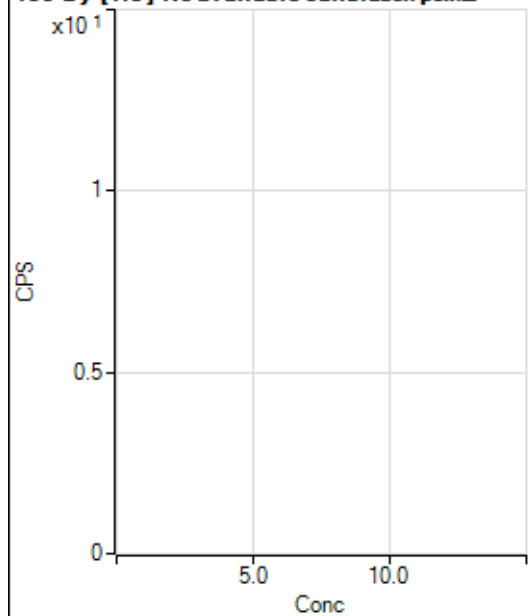
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	49.5
2	☐			10.00		P	33.3
3	☐			61.11		P	50.7
4	☐			121.11		P	8.4
5	☐			237.78		P	3.5
6	☐			435.57		P	7.4
7	☐			825.59		P	14.5
8	☐			308.90		P	5.9

150 Nd [He] No available calibration points

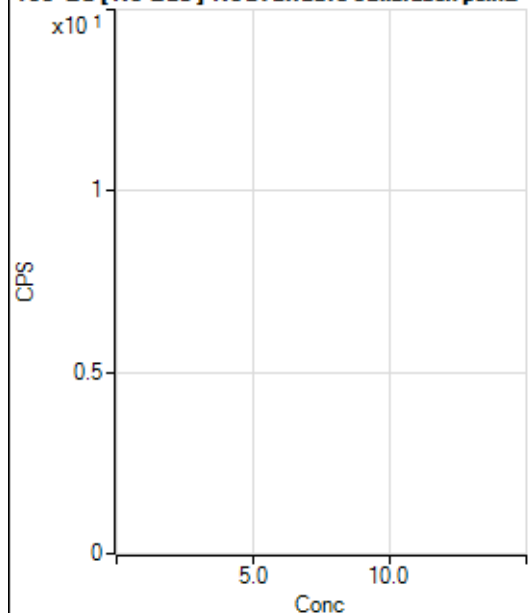
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			5.56		P	34.7
3	☐			12.22		P	56.8
4	☐			38.89		P	47.2
5	☐			56.67		P	29.4
6	☐			96.66		P	11.9
7	☐			203.34		P	9.1
8	☐			161.11		P	15.5

156 Dy [No Gas] No available calibration points

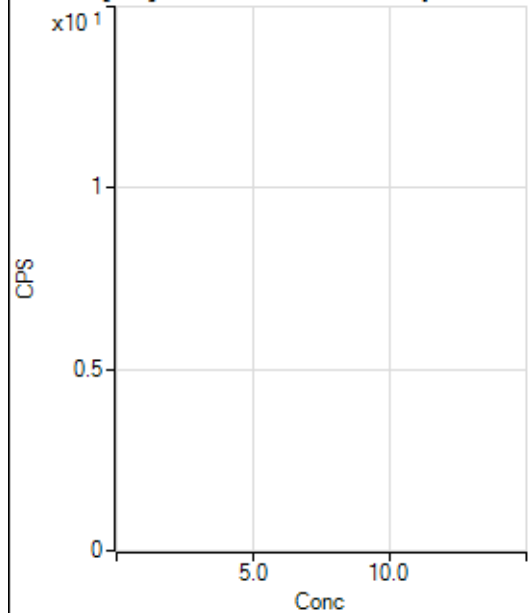
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	62.5
2	☐			13.33		P	90.1
3	☐			18.89		P	27.0
4	☐			53.33		P	6.3
5	☐			80.00		P	16.7
6	☐			141.11		P	3.6
7	☐			266.67		P	2.5
8	☐			484.46		P	11.0

156 Dy [He] No available calibration points

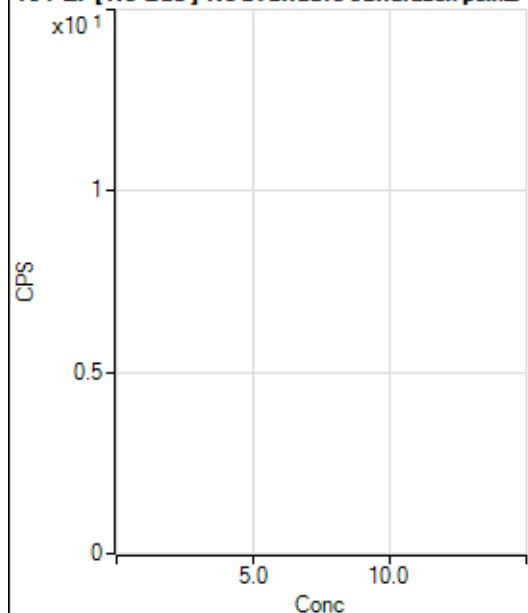
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			8.89		P	57.3
3	☐			47.78		P	46.5
4	☐			115.56		P	15.9
5	☐			217.78		P	3.2
6	☐			421.12		P	9.4
7	☐			781.14		P	9.9
8	☐			398.90		P	7.0

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

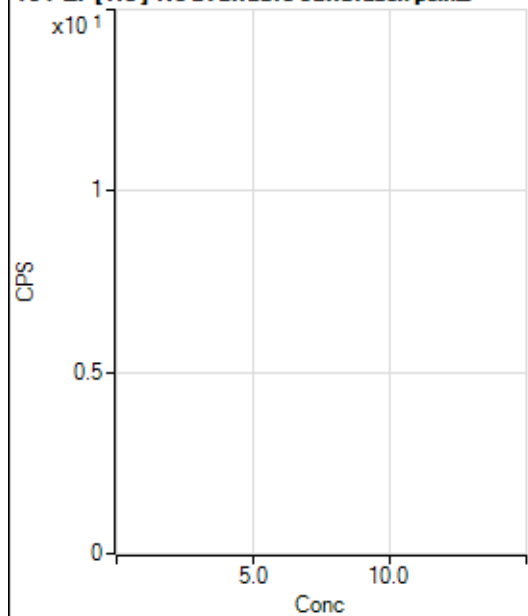
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57.78		P	6.7
2	☐			50.00		P	50.3
3	☐			44.44		P	22.9
4	☐			76.67		P	21.7
5	☐			83.33		P	13.9
6	☐			117.78		P	23.0
7	☐			161.11		P	11.4
8	☐			454.46		P	4.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			613.35		P	7.1
2	☐			648.91		P	3.9
3	☐			675.58		P	7.6
4	☐			645.58		P	4.7
5	☐			631.13		P	6.5
6	☐			606.69		P	1.5
7	☐			692.24		P	4.8
8	☐			931.15		P	2.4

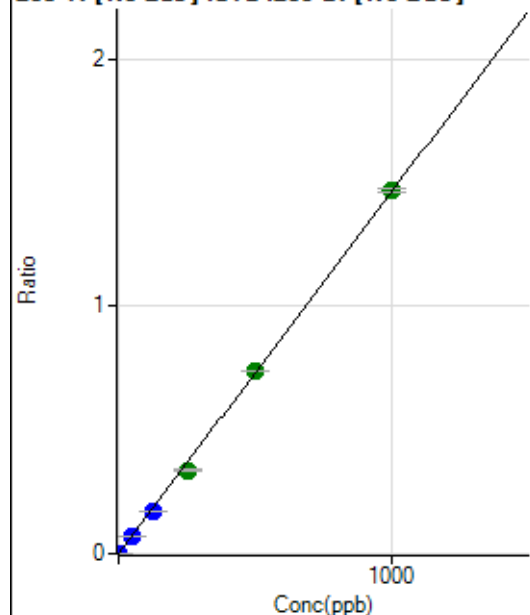
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.67		P	15.6
2	☐			64.44		P	7.9
3	☐			63.33		P	41.1
4	☐			76.67		P	4.4
5	☐			88.89		P	31.9
6	☐			138.89		P	8.4
7	☐			213.33		P	13.5
8	☐			544.46		P	1.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	22.3
2	☐			50.00		P	20.0
3	☐			48.89		P	20.8
4	☐			47.78		P	26.4
5	☐			66.67		P	26.5
6	☐			103.33		P	3.2
7	☐			123.34		P	18.7
8	☐			404.46		P	8.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	232.23	0.0000	P	7.7
2	☐	1.000	0.987	13886.04	0.0015	P	1.6
3	☐	50.000	48.577	671646.04	0.0710	P	2.1
4	☐	125.000	115.389	1583913.21	0.1687	P	0.2
5	☐	250.000	230.569	3115287.35	0.3370	A	1.3
6	☐	500.000	505.621	6657092.19	0.7390	A	0.7
7	☐	1000.000	1003.320	12888472.17	1.4663	A	1.1
8	☐			2169.08	0.0003	P	10.0

$$y = 0.0015 * x + 2.5149E-005$$

$$R = 0.9998$$

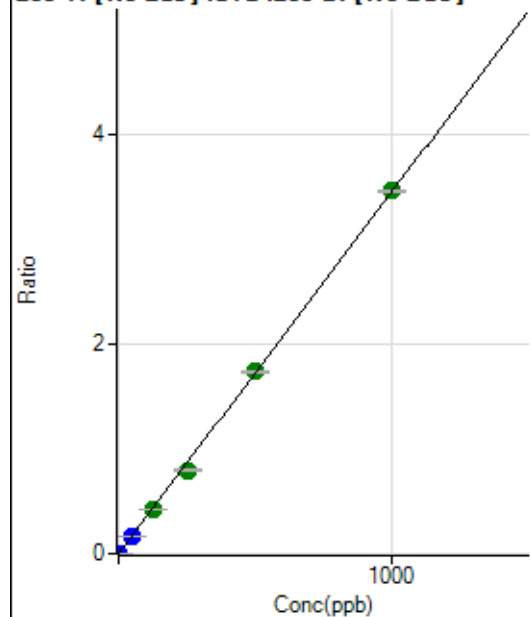
$$DL = 0.003961$$

$$BEC = 0.01721$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	521.13	0.0001	P	11.4
2	☐	1.000	0.979	32502.15	0.0034	P	0.9
3	☐	50.000	48.203	1574797.25	0.1665	P	1.8
4	☐	125.000	122.684	3979221.71	0.4237	A	0.7
5	☐	250.000	230.129	7347102.32	0.7947	A	1.2
6	☐	500.000	503.419	15660537.54	1.7385	A	0.8
7	☐	1000.000	1003.637	30464706.49	3.4659	A	0.7
8	☐			5153.25	0.0007	P	11.4

$$y = 0.0035 * x + 5.6431E-005$$

$$R = 0.9998$$

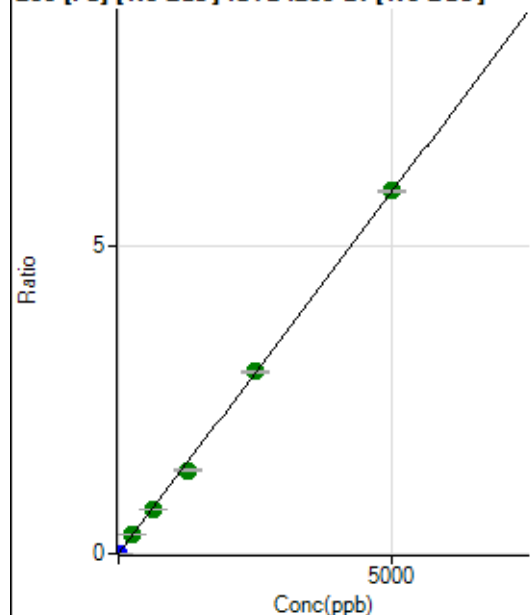
$$DL = 0.005588$$

$$BEC = 0.01634$$

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	648.91	0.0001	P	6.9
2	☐	1.000	0.967	11395.97	0.0012	P	1.3
3	☐	250.000	259.405	2878255.75	0.3043	A	1.3
4	☐	625.000	615.797	6783431.15	0.7223	A	0.5
5	☐	1250.000	1151.319	12484408.28	1.3504	A	1.3
6	☐	2500.000	2513.727	26558719.88	2.9484	A	1.3
7	☐	5000.000	5018.487	51737294.23	5.8861	A	0.7
8	☐			14811.52	0.0019	P	3.5

$$y = 0.0012 * x + 7.0249E-005$$

$$R = 0.9998$$

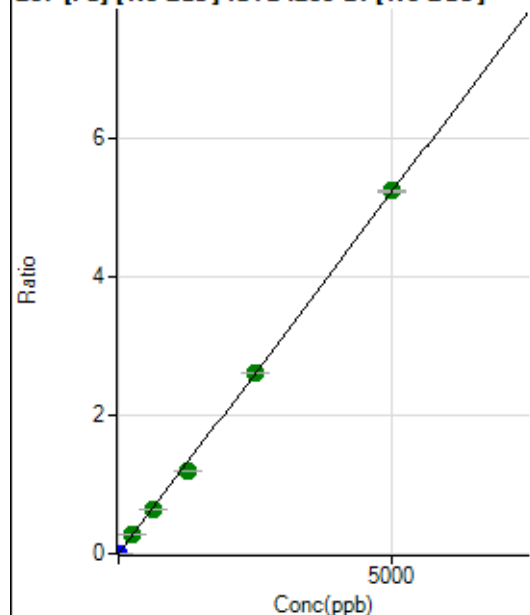
$$DL = 0.01245$$

$$BEC = 0.05989$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	573.35	0.0001	P	9.2
2	☐	1.000	0.969	10157.20	0.0011	P	1.6
3	☐	250.000	260.891	2577404.77	0.2725	A	1.2
4	☐	625.000	617.436	6055667.48	0.6448	A	0.5
5	☐	1250.000	1147.368	11077354.28	1.1982	A	0.7
6	☐	2500.000	2503.730	23553467.71	2.6147	A	0.8
7	☐	5000.000	5024.194	46118755.98	5.2468	A	0.8
8	☐			12812.81	0.0016	P	5.0

$$y = 0.0010 * x + 6.2090E-005$$

$$R = 0.9998$$

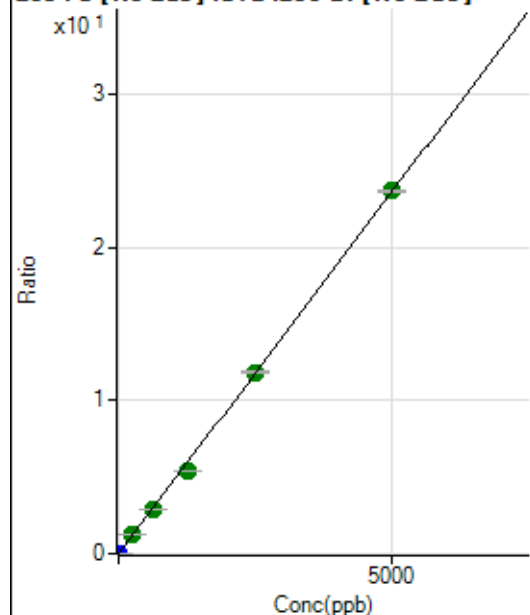
$$DL = 0.01633$$

$$BEC = 0.05946$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2717.91	0.0003	P	6.6
2	☐	1.000	0.969	46017.48	0.0049	P	1.3
3	☐	250.000	259.927	11597743.56	1.2262	A	1.1
4	☐	625.000	619.048	27421145.22	2.9200	A	0.2
5	☐	1250.000	1147.237	50024873.28	5.4111	A	0.7
6	☐	2500.000	2510.933	106682535.64	11.8428	A	0.7
7	☐	5000.000	5020.472	208133788.57	23.6788	A	0.6
8	☐			58415.96	0.0075	P	4.4

$$y = 0.0047 * x + 2.9425E-004$$

$$R = 0.9997$$

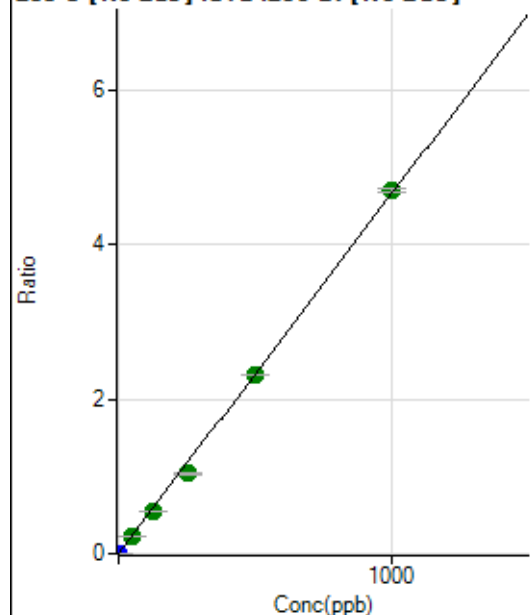
$$DL = 0.01237$$

$$BEC = 0.06239$$

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	20.00	0.0000	P	17.3
2	☐	1.000	0.915	40360.88	0.0043	P	1.4
3	☐	50.000	49.516	2183150.44	0.2308	A	1.8
4	☐	125.000	118.578	5191140.62	0.5528	A	0.7
5	☐	250.000	222.519	9589731.73	1.0373	A	0.7
6	☐	500.000	498.250	20923791.77	2.3227	A	0.6
7	☐	1000.000	1008.573	41325973.83	4.7017	A	1.2
8	☐			5740.19	0.0007	P	10.5

$$y = 0.0047 * x + 2.1667E-006$$

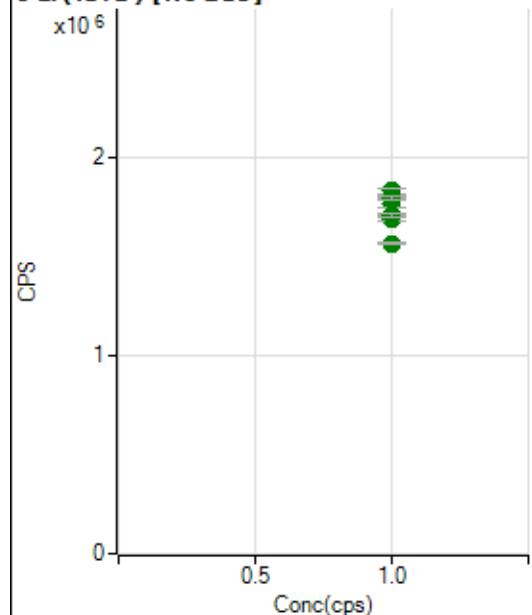
$$R = 0.9996$$

$$DL = 0.0002406$$

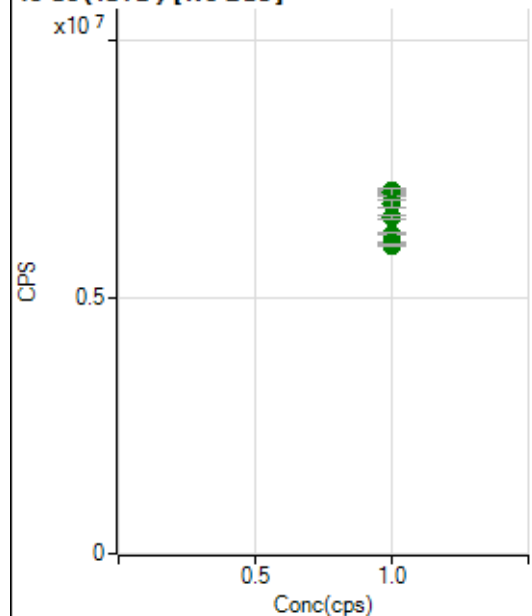
$$BEC = 0.0004648$$

Weight: <None>

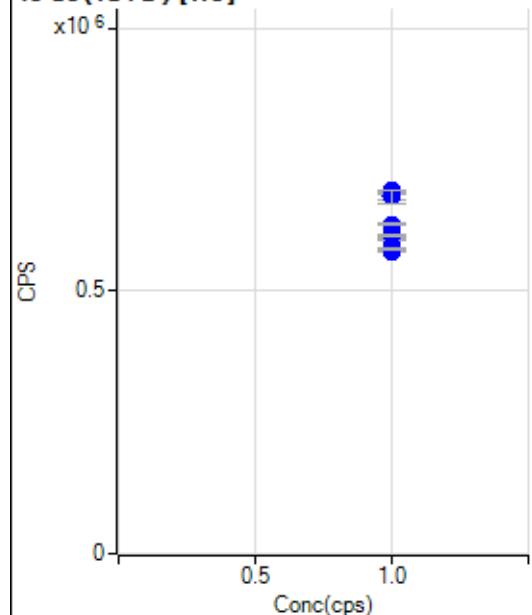
Min Conc: 0

6 Li (ISTD) [No Gas]

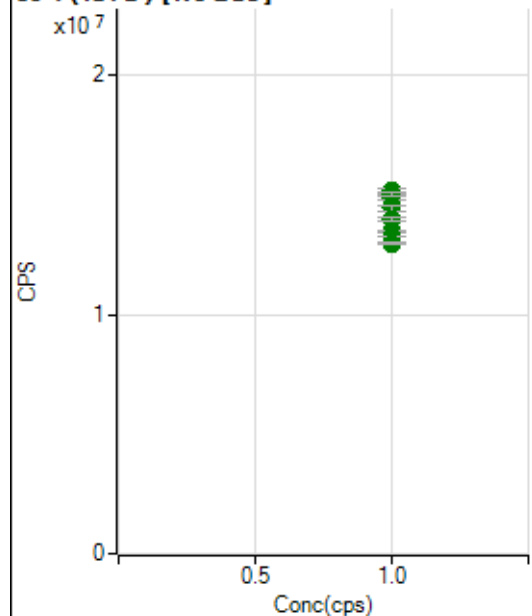
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1688983.51		A	1.5
2	☐	1.000		1758424.49		A	2.2
3	☐	1.000		1789270.11		A	0.4
4	☐	1.000		1794448.53		A	1.2
5	☐	1.000		1827526.20		A	1.4
6	☐	1.000		1790898.65		A	1.4
7	☐	1.000		1704033.10		A	0.7
8	☐	1.000		1562576.17		A	0.5

45 Sc (ISTD) [No Gas]

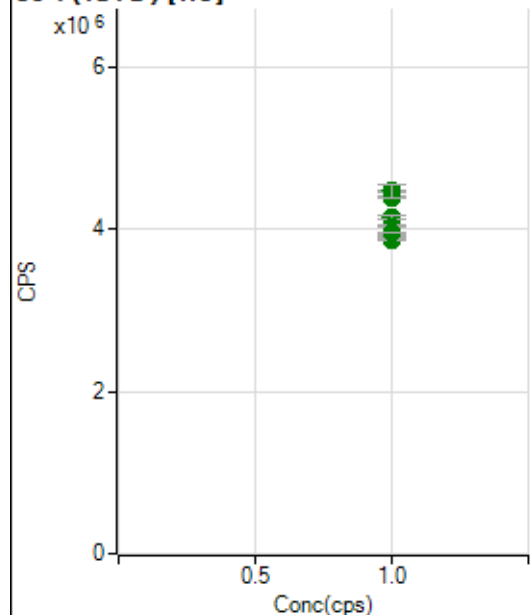
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6993808.16		A	0.4
2	☐	1.000		7072277.12		A	0.7
3	☐	1.000		7042735.52		A	2.1
4	☐	1.000		6819744.83		A	2.1
5	☐	1.000		6552656.71		A	1.0
6	☐	1.000		6241242.27		A	0.8
7	☐	1.000		6061227.83		A	0.5
8	☐	1.000		6005718.24		A	0.4

45 Sc (ISTD) [He]

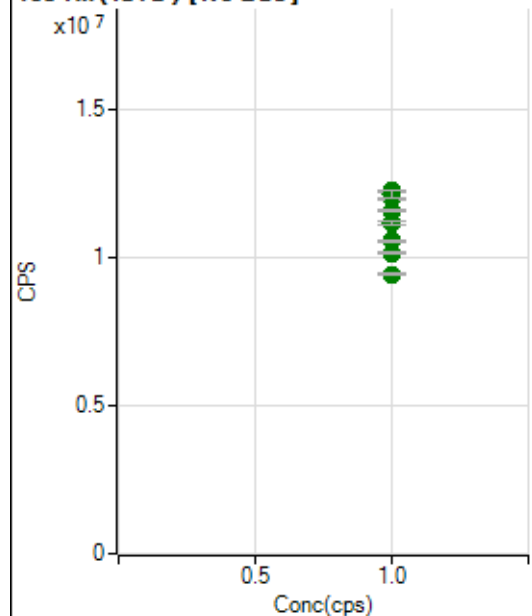
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		679409.82		P	1.3
2	☐	1.000		690699.33		P	0.4
3	☐	1.000		680911.37		P	3.8
4	☐	1.000		627798.70		P	0.4
5	☐	1.000		598257.05		P	0.9
6	☐	1.000		576530.90		P	0.7
7	☐	1.000		578553.15		P	0.6
8	☐	1.000		605967.68		P	0.6

89 Y (ISTD) [No Gas]

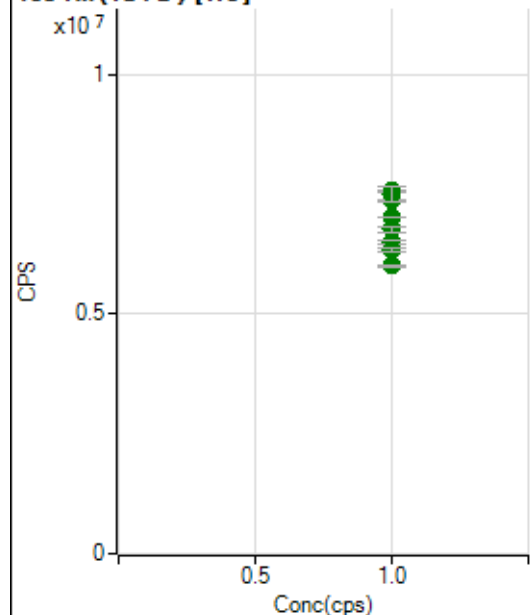
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14883198.53		A	1.1
2	☐	1.000		15161071.86		A	1.3
3	☐	1.000		15040654.22		A	1.2
4	☐	1.000		14454016.17		A	1.7
5	☐	1.000		14016095.21		A	1.2
6	☐	1.000		13468478.69		A	0.9
7	☐	1.000		13289754.25		A	0.0
8	☐	1.000		12969876.33		A	1.0

89 Y(ISTD) [He]

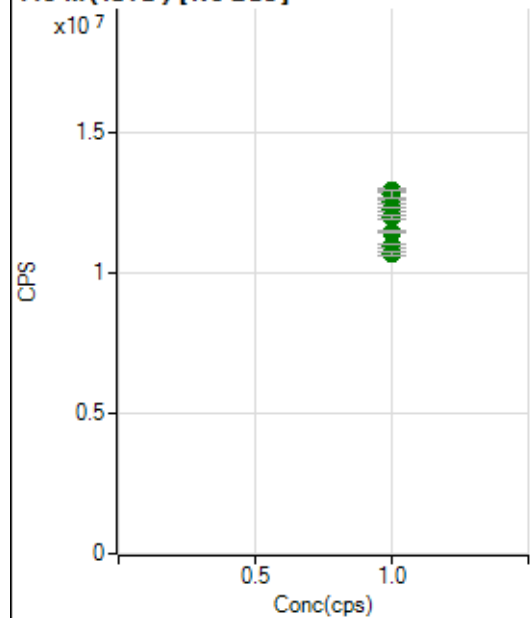
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4386379.10		A	0.8
2	☐	1.000		4458395.91		A	0.4
3	☐	1.000		4465492.75		A	3.7
4	☐	1.000		4151021.67		A	1.0
5	☐	1.000		4028463.24		A	0.8
6	☐	1.000		3921755.81		A	0.6
7	☐	1.000		3867774.39		A	0.9
8	☐	1.000		3957174.59		A	0.3

103 Rh(ISTD) [No Gas]

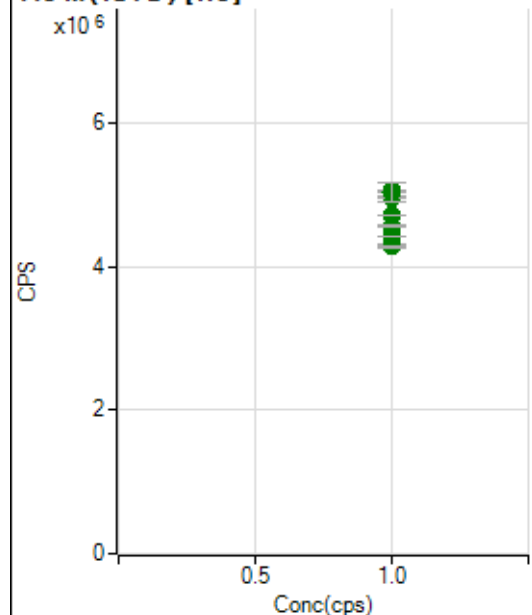
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		12001498.99		A	0.7
2	☐	1.000		12247947.88		A	0.8
3	☐	1.000		12124536.35		A	1.9
4	☐	1.000		11585396.08		A	0.8
5	☐	1.000		11144999.14		A	1.2
6	☐	1.000		10567049.36		A	0.8
7	☐	1.000		10152677.35		A	0.3
8	☐	1.000		9437502.15		A	1.0

103 Rh (ISTD) [He]

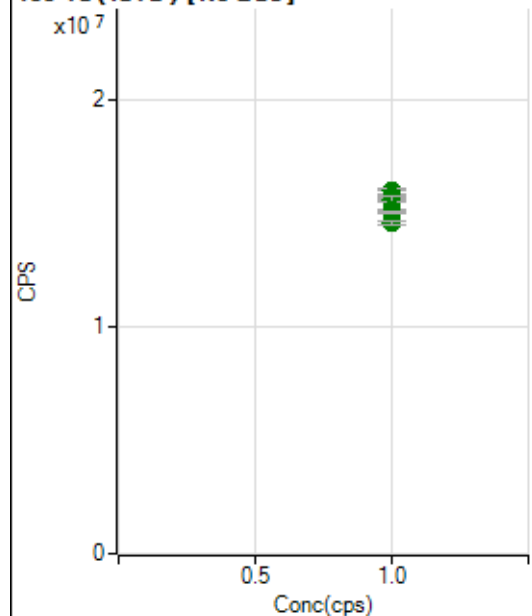
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7361875.93		A	0.4
2	☐	1.000		7568667.25		A	0.7
3	☐	1.000		7507487.94		A	4.6
4	☐	1.000		7027702.19		A	0.1
5	☐	1.000		6769855.18		A	2.0
6	☐	1.000		6494556.50		A	0.8
7	☐	1.000		6335124.98		A	1.0
8	☐	1.000		6002828.73		A	0.2

115 In (ISTD) [No Gas]

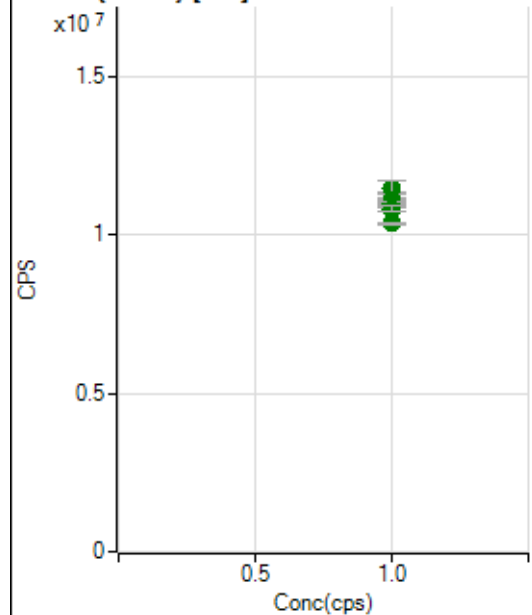
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12520361.47		A	1.1
2	☐	1.000		12918794.16		A	1.0
3	☐	1.000		12773973.67		A	2.1
4	☐	1.000		12249973.15		A	1.1
5	☐	1.000		11966731.73		A	0.9
6	☐	1.000		11445779.50		A	0.4
7	☐	1.000		10964169.51		A	0.9
8	☐	1.000		10695788.05		A	1.3

115 In (ISTD) [He]

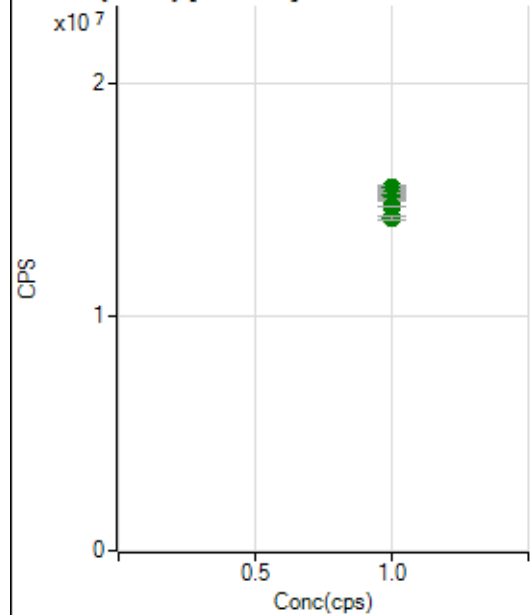
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4972732.79		A	0.3
2	☐	1.000		5063178.65		A	0.8
3	☐	1.000		5044565.50		A	5.3
4	☐	1.000		4724846.45		A	0.3
5	☐	1.000		4567016.27		A	0.6
6	☐	1.000		4427695.76		A	0.3
7	☐	1.000		4295846.64		A	0.8
8	☐	1.000		4291402.98		A	0.5

159 Tb (ISTD) [No Gas]

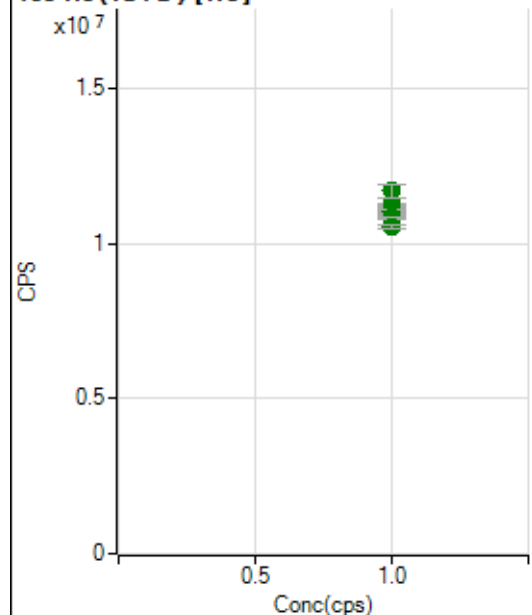
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15617675.74		A	0.4
2	☐	1.000		15909370.04		A	1.3
3	☐	1.000		16019253.23		A	1.5
4	☐	1.000		15769331.02		A	0.7
5	☐	1.000		15660562.41		A	1.4
6	☐	1.000		15163097.13		A	0.6
7	☐	1.000		15061770.05		A	0.7
8	☐	1.000		14602315.76		A	1.6

159 Tb (ISTD) [He]

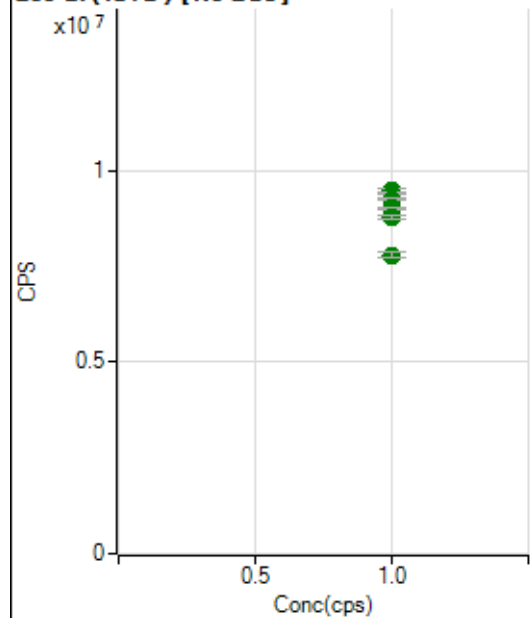
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11031424.84		A	0.9
2	☐	1.000		11293670.67		A	0.7
3	☐	1.000		11439511.77		A	4.8
4	☐	1.000		11087743.31		A	0.7
5	☐	1.000		10973791.92		A	0.8
6	☐	1.000		10807439.98		A	0.9
7	☐	1.000		10811533.73		A	1.4
8	☐	1.000		10350314.29		A	0.4

165 Ho (ISTD) [No Gas]

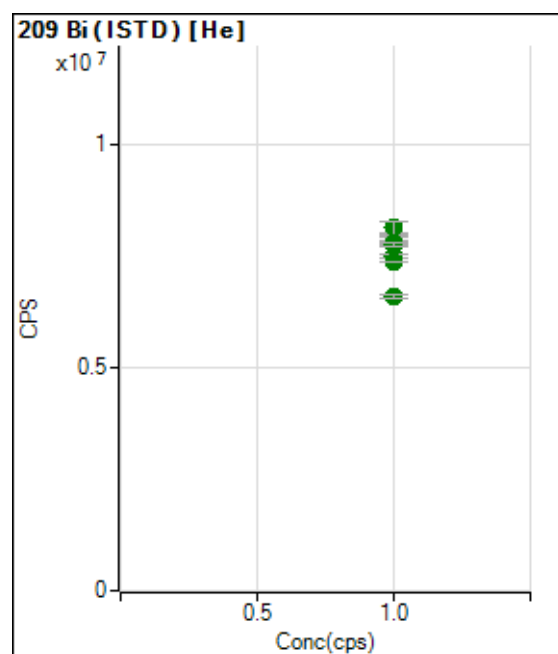
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15123999.36		A	0.8
2	☐	1.000		15491286.30		A	0.8
3	☐	1.000		15510603.38		A	1.4
4	☐	1.000		15413096.16		A	0.7
5	☐	1.000		15220127.55		A	1.1
6	☐	1.000		14980830.06		A	0.6
7	☐	1.000		14718999.64		A	0.3
8	☐	1.000		14209420.07		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		11138968.31		A	1.1
2	☐	1.000		11268069.14		A	0.9
3	☐	1.000		11709142.46		A	3.7
4	☐	1.000		11174514.41		A	0.2
5	☐	1.000		11029896.09		A	1.2
6	☐	1.000		10880689.98		A	0.7
7	☐	1.000		10840124.01		A	0.8
8	☐	1.000		10562687.34		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		9237177.16		A	0.6
2	☐	1.000		9460587.08		A	1.1
3	☐	1.000		9459199.51		A	1.5
4	☐	1.000		9391012.57		A	0.6
5	☐	1.000		9244724.93		A	0.5
6	☐	1.000		9008453.34		A	0.6
7	☐	1.000		8790086.81		A	1.0
8	☐	1.000		7796098.71		A	1.9



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7784832.66		A	0.9
2	☐	1.000		7957821.90		A	0.9
3	☐	1.000		8115229.95		A	3.8
4	☐	1.000		7777714.74		A	0.6
5	☐	1.000		7748113.22		A	1.2
6	☐	1.000		7484230.93		A	0.7
7	☐	1.000		7364541.21		A	0.2
8	☐	1.000		6585055.46		A	0.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7122024MS1.b

Acq. Date-Time 2024-12-20 12:30:51

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9920	99196.75			0.405	5.000
24		73900	739002.07			0.740	5.000
25		9103	91034.08			0.287	5.000
26		10263	102629.50			0.302	5.000
59		112864	1128642.17			0.988	5.000
113		15119	151187.56			0.410	5.000
115		190720	1907197.70			0.654	5.000
206		38279	382786.06			0.518	5.000
207		32665	326648.85			0.419	5.000
208		78774	787740.42			0.685	5.000
220		0	1.80			75.052	

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

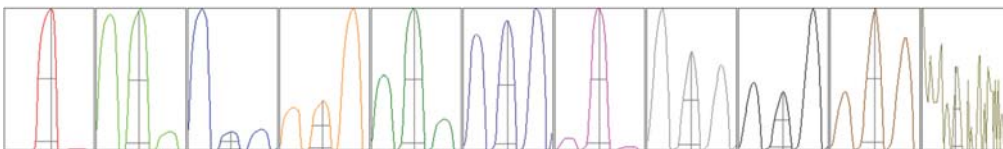
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9859	9971	9919	9925	9924
24	73550	74035	73687	73437	74792
25	9069	9098	9115	9095	9140
26	10227	10268	10310	10245	10264
59	112720	114144	113390	111124	112942
113	15171	15154	15156	15088	15024
115	190128	191322	192616	189543	189990
206	38315	38475	38447	38144	38012
207	32619	32777	32769	32712	32447
208	78868	79157	79324	78561	77960

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	17324.90	9.10	8.90 - 9.10	
24	122253.01	23.95	23.90 - 24.10	
25	15536.48	24.95	24.90 - 25.10	
26	17802.16	25.95	25.90 - 26.10	
59	194431.14	58.95	58.90 - 59.10	
113	29279.57	113.00	112.90 - 113.10	
115	365674.65	115.00	114.90 - 115.10	
206	79533.51	206.00	205.90 - 206.10	
207	69141.19	207.00	206.90 - 207.10	
208	165730.98	208.00	207.90 - 208.10	
220	0.35	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.735	0.900	
24	0.63	0.784	0.900	
25	0.61	0.732	0.900	
26	0.60	0.741	0.900	
59	0.60	0.784	0.900	
113	0.53	0.728	0.900	
115	0.52	0.768	0.900	
206	0.50	0.734	0.900	
207	0.50	0.736	0.900	
208	0.49	0.761	0.900	
220	0.23	0.338		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 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	0.0 V	Omega Lens	7.7 V	Deflect	16.0 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.12		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.8 mV	Analog HV	2237 V	Pulse HV	1013 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		38467	384670.37			0.578	
89		45750	457499.15			0.606	
205		43484	434843.11			0.675	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	38847	38456	38413	38331	38289
89	46153	45784	45782	45641	45389
205	43922	43533	43538	43183	43246

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 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	0.0 V	Omega Lens	9.1 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	136	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.12		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	0.4 mm		
EM					
Discriminator	4.8 mV	Analog HV	2237 V	Pulse HV	1013 V