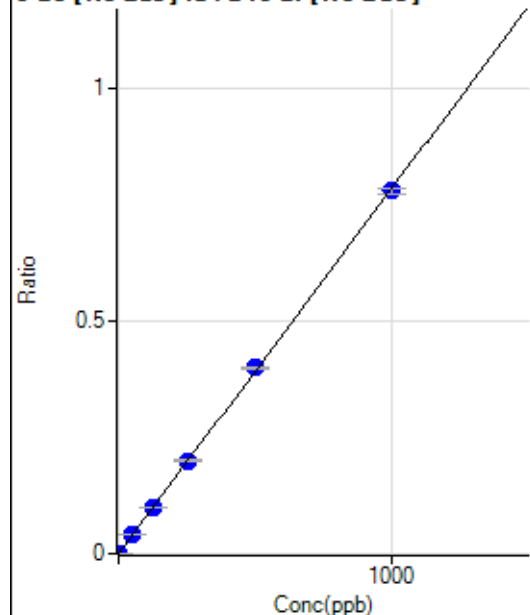


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8110920IMS.b\
 Analysis File: P8110920IMS.batch.bin
 DA Date-Time: 2020-11-10 17:24:12
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-09 14:46:13
2	005CALS.d	S02	2020-11-09 14:52:36
3	006CALS.d	S03	2020-11-09 14:55:48
4	007CALS.d	S04	2020-11-09 14:58:58
5	008CALS.d	S05	2020-11-09 15:02:05
6	009CALS.d	S06	2020-11-09 15:05:04
7	010CALS.d	S07	2020-11-09 15:08:04
8	011CALS.d	S08	2020-11-09 15:11:03

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	57.32	0.0001	P	12.5
2	☐	1.000	1.055	645.89	0.0009	P	5.2
3	☐	50.000	52.096	29232.34	0.0409	P	1.7
4	☐	125.000	125.934	71650.80	0.0989	P	0.1
5	☐	250.000	254.478	142428.48	0.1997	P	2.1
6	☐	500.000	508.750	283182.90	0.3991	P	1.4
7	☐	1000.000	994.284	556400.33	0.7799	P	1.5
8	☐			495.25	0.0007	P	11.3

$$y = 7.8432\text{E-}004 * x + 7.8963\text{E-}005$$

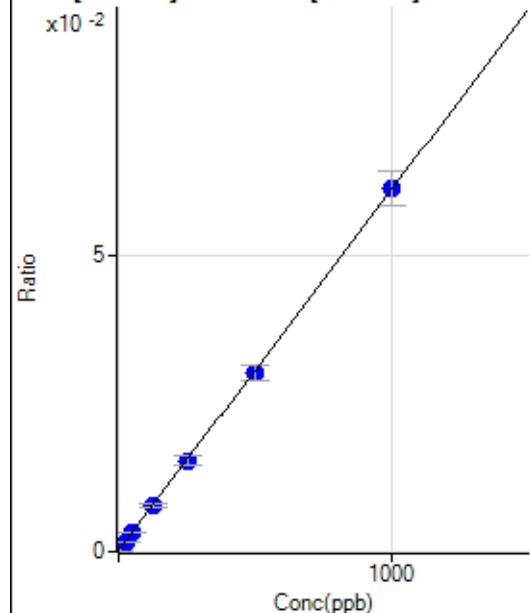
$$R = 0.9999$$

$$DL = 0.0378$$

$$BEC = 0.1007$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.65	0.0002	P	14.4
2	☐	25.000	23.117	1117.16	0.0016	P	9.2
3	☐	50.000	51.509	2356.40	0.0033	P	5.9
4	☐	125.000	124.551	5614.65	0.0077	P	11.4
5	☐	250.000	249.804	10963.28	0.0154	P	10.1
6	☐	500.000	495.119	21512.83	0.0303	P	8.6
7	☐	1000.000	1002.517	43681.40	0.0612	P	9.6
8	☐			7349.75	0.0102	P	14.4

$$y = 6.0918\text{E-}005 * x + 1.6070\text{E-}004$$

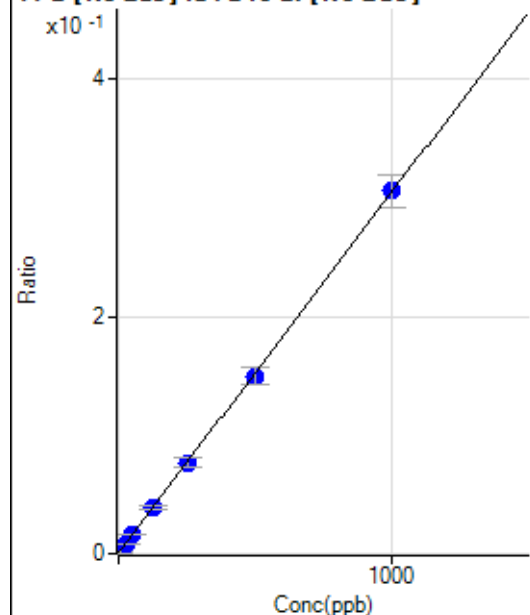
$$R = 1.0000$$

$$DL = 1.139$$

$$BEC = 2.638$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	592.56	0.0008	P	4.6
2	☐	25.000	22.950	5537.30	0.0078	P	12.5
3	☐	50.000	50.632	11556.95	0.0162	P	7.6
4	☐	125.000	124.266	27908.92	0.0385	P	8.1
5	☐	250.000	249.177	54462.48	0.0764	P	10.5
6	☐	500.000	490.879	106216.63	0.1497	P	9.2
7	☐	1000.000	1004.878	218019.57	0.3056	P	9.0
8	☐			35824.68	0.0497	P	12.9

$$y = 3.0332\text{E-}004 * x + 8.1688\text{E-}004$$

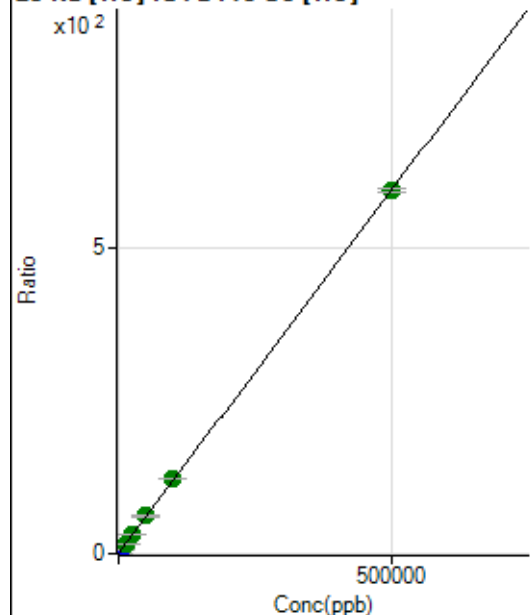
R = 0.9999

DL = 0.375

BEC = 2.693

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35774.83	0.4170	P	1.5
2	☐	500.000	501.804	87682.46	1.0140	P	0.9
3	☐	5000.000	5355.919	594639.12	6.7889	P	1.8
4	☐	12500.000	13117.734	1410057.58	16.0230	A	1.4
5	☐	25000.000	26492.624	2734865.82	31.9350	A	0.8
6	☐	50000.000	51525.934	5367509.84	61.7168	A	1.0
7	☐	100000.00	103197.09	10727071.59	123.1893	A	1.0
8	☐	500000.00	499114.35	52427296.31	594.2069	A	1.2

$$y = 0.0012 * x + 0.4170$$

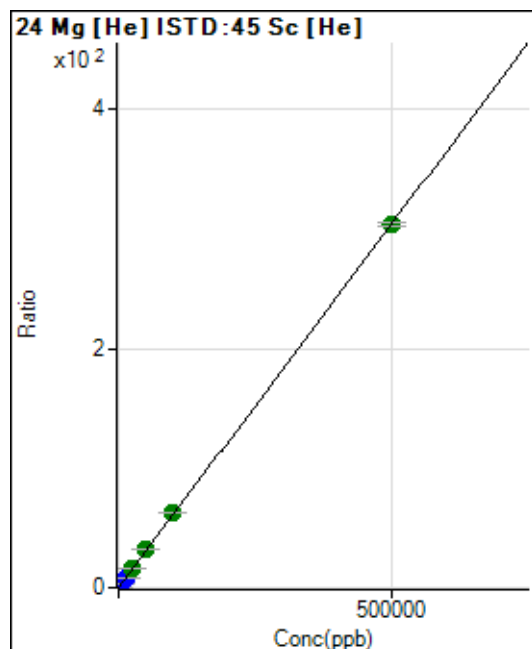
R = 1.0000

DL = 15.47

BEC = 350.5

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	541.69	0.0063	P	7.0
2	☐	500.000	504.533	27075.70	0.3131	P	1.3
3	☐	5000.000	5433.266	289945.37	3.3103	P	2.2
4	☐	12500.000	13410.717	718153.07	8.1614	P	1.9
5	☐	25000.000	27152.049	1414542.29	16.5175	A	0.5
6	☐	50000.000	52549.765	2779782.53	31.9619	A	0.6
7	☐	100000.00	102827.36	5445818.92	62.5358	A	0.3
8	☐	500000.00	499044.84	26776582.72	303.4765	A	1.0

$$y = 6.0810E-004 * x + 0.0063$$

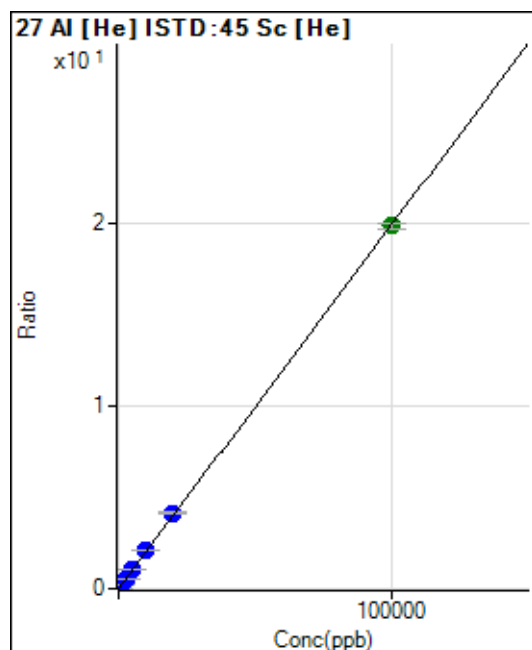
R = 1.0000

DL = 2.171

BEC = 10.38

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	307.05	0.0036	P	9.7
2	☐	20.000	25.634	750.76	0.0087	P	2.8
3	☐	1000.000	1057.848	18767.63	0.2143	P	0.1
4	☐	2500.000	2621.222	46254.61	0.5256	P	1.2
5	☐	5000.000	5332.920	91262.44	1.0657	P	0.7
6	☐	10000.000	10620.060	184259.00	2.1186	P	1.0
7	☐	20000.000	20861.440	362103.50	4.1583	P	0.6
8	☐	100000.00	99745.450	1752994.40	19.8686	A	1.8

$$y = 1.9916E-004 * x + 0.0036$$

R = 0.9999

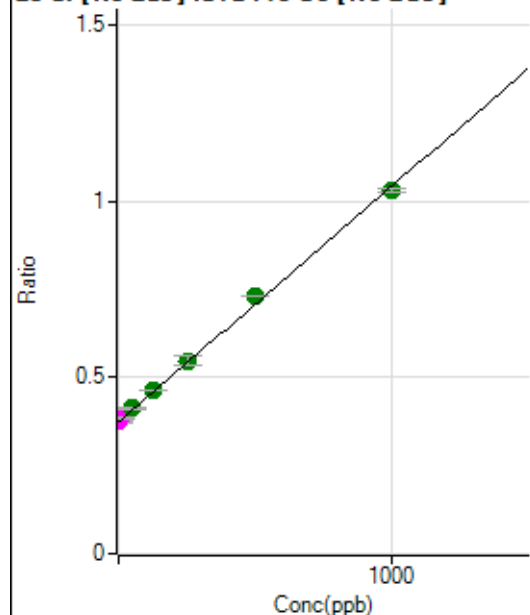
DL = 5.24

BEC = 17.96

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	862981.19	0.3737	M	0.7
2	☐	10.000	15.971	872949.15	0.3843	M	1.4
3	☐	50.000	57.482	946253.05	0.4121	A	2.3
4	☐	125.000	133.984	1085681.77	0.4632	A	0.9
5	☐	250.000	259.624	1271694.69	0.5471	A	5.2
6	☐	500.000	532.228	1668812.25	0.7292	A	0.1
7	☐	1000.000	979.923	2377855.30	1.0282	A	0.9
8	☐			1005687.25	0.4358	A	0.8

$$y = 6.6799\text{E-}004 * x + 0.3737$$

R = 0.9992

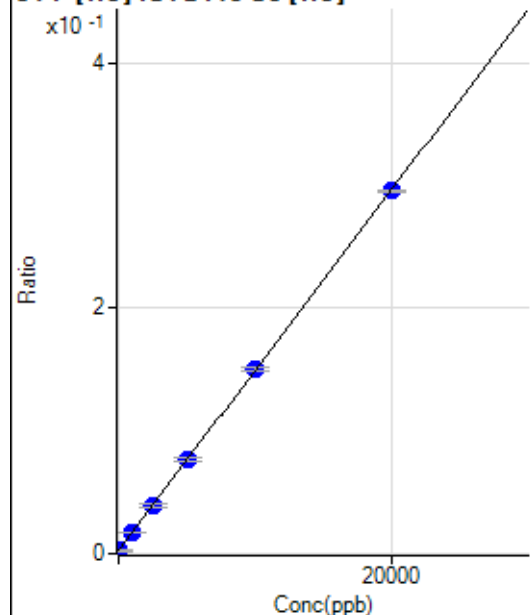
DL = 11.48

BEC = 559.4

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	8.458	230.56	0.0027	P	38.9
2	☐	0.000	-8.458	211.12	0.0024	P	12.1
3	☐	1000.000	980.264	1486.23	0.0170	P	2.1
4	☐	2500.000	2494.061	3450.50	0.0392	P	7.1
5	☐	5000.000	5081.332	6612.78	0.0772	P	4.2
6	☐	10000.000	10080.871	13103.43	0.1507	P	2.7
7	☐	20000.000	19940.961	25734.53	0.2955	P	0.7
8	☐			222.23	0.0025	P	11.4

$$y = 1.4691\text{E-}005 * x + 0.0026$$

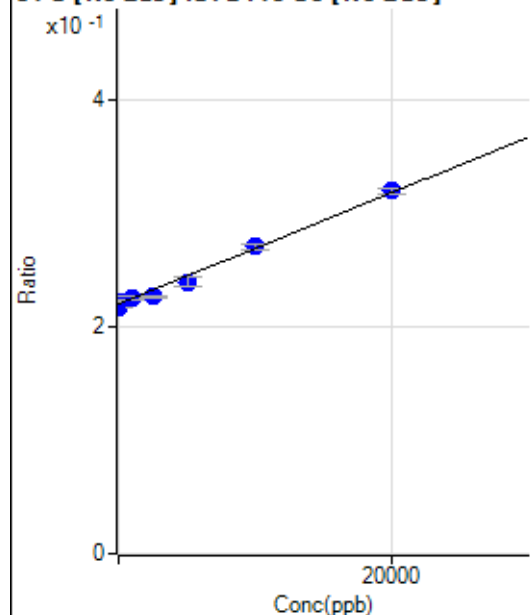
R = 1.0000

DL = 137.2

BEC = 174.6

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-493.891	502293.02	0.2175	P	0.5
2	☐	0.000	493.891	504964.02	0.2223	P	1.2
3	☐	1000.000	903.418	515183.09	0.2243	P	1.5
4	☐	2500.000	1317.736	530592.70	0.2264	P	0.8
5	☐	5000.000	3878.073	555495.18	0.2389	P	3.4
6	☐	10000.000	10260.378	618127.89	0.2701	P	1.7
7	☐	20000.000	20302.905	738319.12	0.3193	P	1.5
8	☐			486867.52	0.2110	P	0.7

$$y = 4.8968\text{E-}006 * x + 0.2199$$

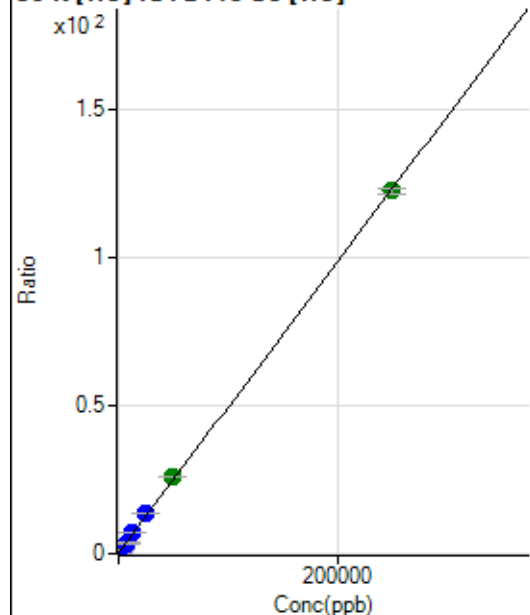
$$R = 0.9963$$

$$DL = 1179$$

$$BEC = 4.491\text{E}+04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24880.33	0.2900	P	3.3
2	☐	500.000	508.137	46598.07	0.5389	P	0.8
3	☐	2500.000	2729.071	142495.96	1.6268	P	1.3
4	☐	6250.000	6658.361	312538.52	3.5516	P	1.3
5	☐	12500.000	13638.312	596961.93	6.9707	P	1.0
6	☐	25000.000	26813.108	1167532.35	13.4244	P	0.9
7	☐	50000.000	52466.649	2263382.75	25.9909	A	0.3
8	☐	250000.00	249255.92	10798128.28	122.3885	A	1.4

$$y = 4.8985\text{E-}004 * x + 0.2900$$

$$R = 0.9999$$

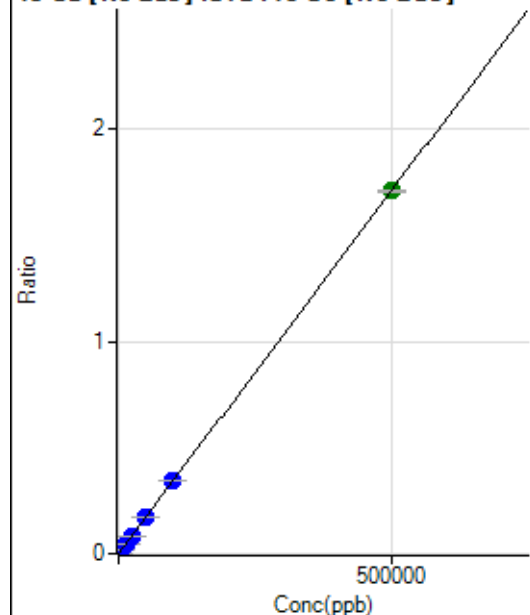
$$DL = 58.93$$

$$BEC = 591.9$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	312.05	0.0001	P	11.2
2	☐	500.000	482.729	4052.16	0.0018	P	2.4
3	☐	5000.000	5095.883	40282.22	0.0175	P	2.0
4	☐	12500.000	12315.644	98922.33	0.0422	P	0.7
5	☐	25000.000	24735.236	196791.37	0.0846	P	2.9
6	☐	50000.000	50523.868	395193.42	0.1727	P	1.3
7	☐	100000.00	100110.91	790965.97	0.3421	P	1.4
8	☐	500000.00	499942.33	3940548.58	1.7078	A	0.8

$$y = 3.4156E-006 * x + 1.3516E-004$$

$$R = 1.0000$$

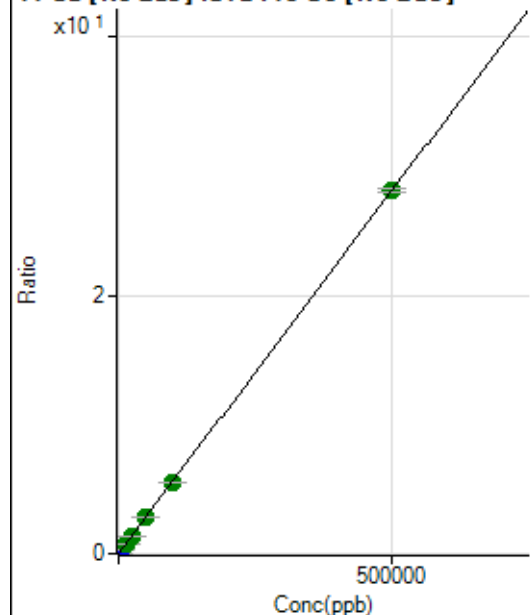
$$DL = 13.34$$

$$BEC = 39.57$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22713.82	0.0098	P	1.3
2	☐	500.000	482.422	83814.19	0.0369	P	1.3
3	☐	5000.000	5095.651	679142.67	0.2957	P	1.6
4	☐	12500.000	12304.216	1641216.22	0.7001	A	0.4
5	☐	25000.000	24641.917	3238032.08	1.3923	A	2.8
6	☐	50000.000	49649.655	6396916.75	2.7953	A	1.0
7	☐	100000.00	98527.843	12806794.17	5.5376	A	1.1
8	☐	500000.00	500351.32	64793176.37	28.0812	A	1.0

$$y = 5.6103E-005 * x + 0.0098$$

$$R = 1.0000$$

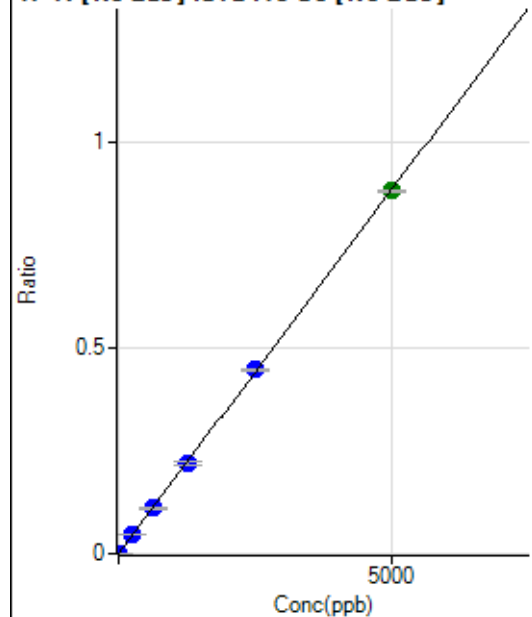
$$DL = 7.049$$

$$BEC = 175.3$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	419.46	0.0002	P	7.7
2	☐	5.000	5.078	2450.28	0.0011	P	11.7
3	☐	250.000	255.134	103856.08	0.0452	P	3.3
4	☐	625.000	621.325	257579.08	0.1099	P	1.4
5	☐	1250.000	1249.772	513464.93	0.2209	P	4.2
6	☐	2500.000	2525.376	1020820.98	0.4461	P	0.9
7	☐	5000.000	4987.572	2037050.03	0.8808	A	0.8
8	☐			1136.19	0.0005	P	18.9

$$y = 1.7657E-004 * x + 1.8156E-004$$

$$R = 1.0000$$

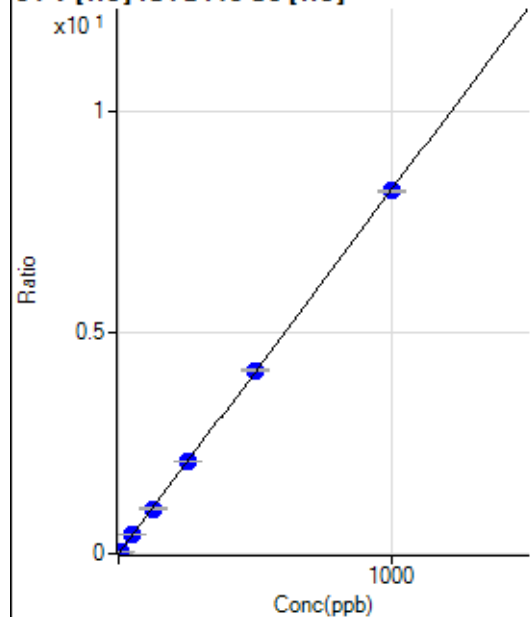
$$DL = 0.2362$$

$$BEC = 1.028$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.67	0.0001	P	50.6
2	☐	5.000	4.816	3436.00	0.0397	P	3.8
3	☐	50.000	51.097	36867.37	0.4209	P	0.6
4	☐	125.000	123.006	89138.45	1.0131	P	2.4
5	☐	250.000	253.348	178682.85	2.0865	P	0.4
6	☐	500.000	504.054	361032.40	4.1511	P	0.5
7	☐	1000.000	997.331	715241.70	8.2134	P	0.3
8	☐			325.56	0.0037	P	8.1

$$y = 0.0082 * x + 7.7896E-005$$

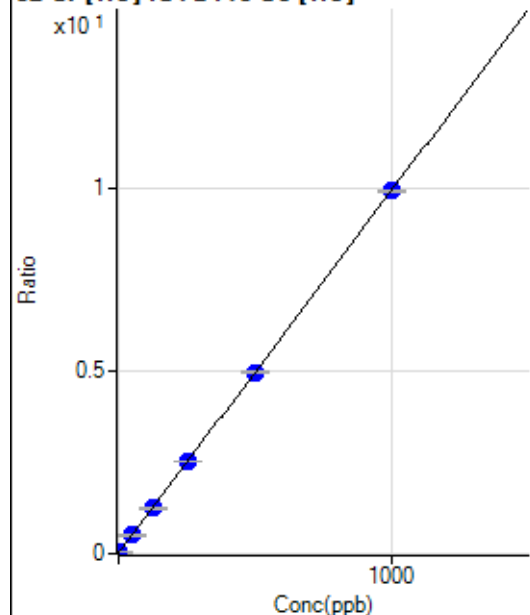
$$R = 1.0000$$

$$DL = 0.01436$$

$$BEC = 0.009459$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	752.25	0.0088	P	11.8
2	☐	2.000	1.955	2436.90	0.0282	P	5.0
3	☐	50.000	49.807	44093.29	0.5034	P	2.0
4	☐	125.000	124.653	109703.46	1.2467	P	1.8
5	☐	250.000	254.475	217177.85	2.5360	P	0.4
6	☐	500.000	499.618	432300.74	4.9705	P	0.5
7	☐	1000.000	999.125	864812.10	9.9312	P	0.5
8	☐			4167.31	0.0472	P	3.2

$$y = 0.0099 * x + 0.0088$$

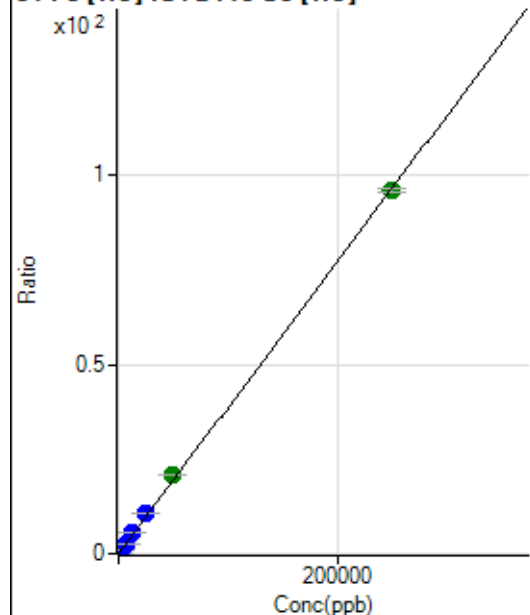
$$R = 1.0000$$

$$DL = 0.3112$$

$$BEC = 0.8824$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	342.60	0.0040	P	11.0
2	☐	50.000	55.730	2200.21	0.0254	P	0.4
3	☐	2500.000	2756.037	93276.38	1.0649	P	0.7
4	☐	6250.000	6795.425	230528.30	2.6198	P	1.7
5	☐	12500.000	13891.563	458277.77	5.3513	P	0.7
6	☐	25000.000	27277.696	913569.47	10.5040	P	0.5
7	☐	50000.000	54315.969	1820975.69	20.9119	A	1.3
8	☐	250000.00	248823.26	8450909.28	95.7840	A	1.0

$$y = 3.8493E-004 * x + 0.0040$$

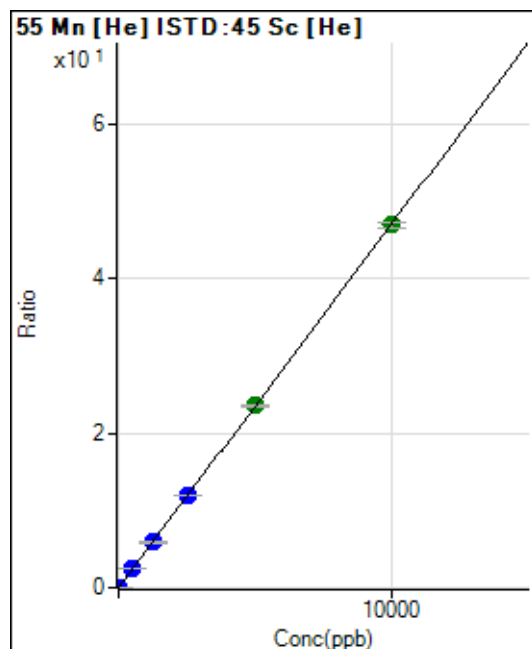
$$R = 0.9998$$

$$DL = 3.432$$

$$BEC = 10.37$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	108.89	0.0013	P	17.7
2	☐	1.000	1.039	532.24	0.0062	P	9.9
3	☐	500.000	509.111	209929.61	2.3966	P	0.7
4	☐	1250.000	1249.637	517452.98	5.8807	P	2.2
5	☐	2500.000	2554.308	1029305.38	12.0192	P	0.4
6	☐	5000.000	5011.185	2050636.86	23.5786	A	1.3
7	☐	10000.000	9980.420	4088813.21	46.9587	A	1.8
8	☐			4577.44	0.0519	P	3.1

$$y = 0.0047 * x + 0.0013$$

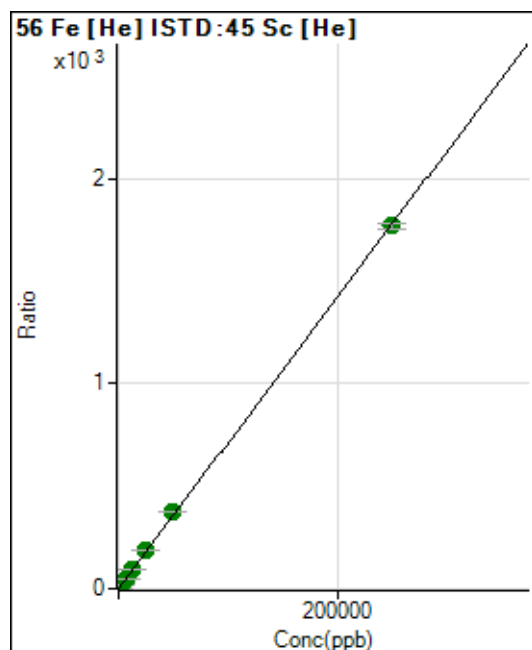
$$R = 1.0000$$

$$DL = 0.1433$$

$$BEC = 0.2695$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2720.68	0.0317	P	4.8
2	☐	50.000	52.131	34763.05	0.4020	P	0.1
3	☐	2500.000	2719.147	1694563.97	19.3464	A	1.5
4	☐	6250.000	6655.834	4162583.37	47.3095	A	2.9
5	☐	12500.000	13500.419	8215163.32	95.9280	A	0.5
6	☐	25000.000	26748.804	16528375.25	190.0340	A	0.4
7	☐	50000.000	52463.167	32453637.30	372.6885	A	0.7
8	☐	250000.00	249270.12	156216701.6	1,770.649	A	1.6

$$y = 0.0071 * x + 0.0317$$

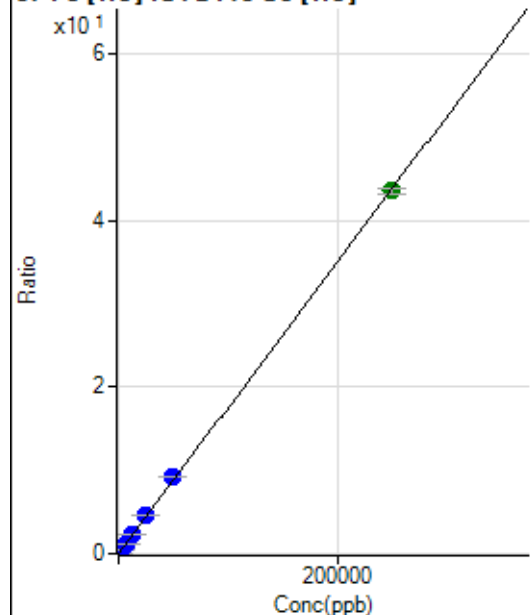
$$R = 0.9999$$

$$DL = 0.6492$$

$$BEC = 4.464$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	164.82	0.0019	P	24.5
2	☐	50.000	47.668	887.08	0.0103	P	5.5
3	☐	2500.000	2726.795	41945.23	0.4789	P	2.0
4	☐	6250.000	6747.754	104024.80	1.1822	P	2.2
5	☐	12500.000	13750.902	206148.64	2.4072	P	0.6
6	☐	25000.000	26886.911	409201.86	4.7049	P	0.3
7	☐	50000.000	53040.573	808096.84	9.2796	P	0.6
8	☐	250000.00	249125.93	3844803.09	43.5782	A	1.3

$$y = 1.7492\text{E-}004 * x + 0.0019$$

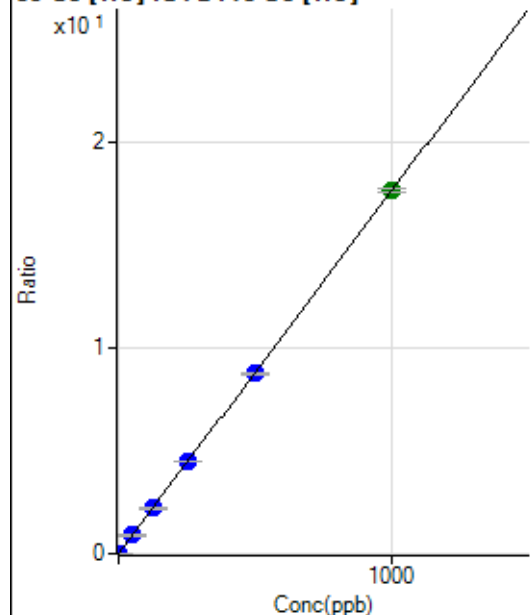
R = 0.9999

DL = 8.066

BEC = 10.99

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	73.33	0.0009	P	17.5
2	☐	1.000	0.956	1533.43	0.0177	P	1.4
3	☐	50.000	50.405	78024.39	0.8908	P	0.7
4	☐	125.000	124.644	193720.56	2.2014	P	1.6
5	☐	250.000	254.708	385175.12	4.4977	P	0.6
6	☐	500.000	497.551	764045.03	8.7850	P	0.9
7	☐	1000.000	1000.072	1537500.81	17.6569	A	1.2
8	☐			2898.10	0.0328	P	1.7

$$y = 0.0177 * x + 8.5405\text{E-}004$$

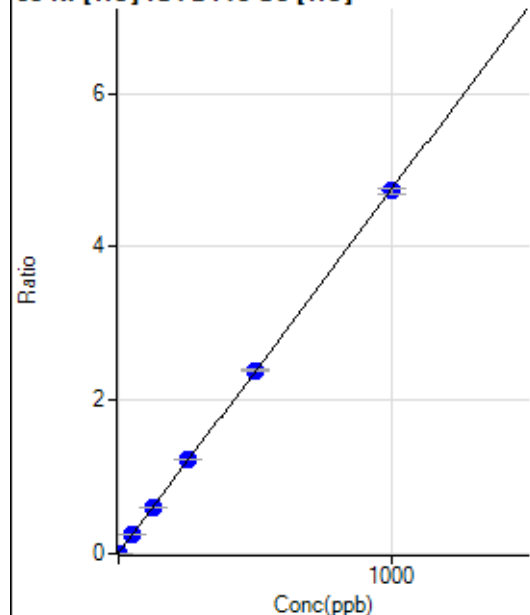
R = 1.0000

DL = 0.02536

BEC = 0.04838

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	388.90	0.0045	P	4.4
2	☐	1.000	1.125	853.37	0.0099	P	3.8
3	☐	50.000	50.919	21557.53	0.2461	P	3.0
4	☐	125.000	126.376	53168.84	0.6041	P	1.3
5	☐	250.000	257.523	105025.22	1.2264	P	0.5
6	☐	500.000	503.338	208093.59	2.3927	P	1.0
7	☐	1000.000	996.232	411977.22	4.7312	P	1.3
8	☐			1730.12	0.0196	P	7.5

$$y = 0.0047 * x + 0.0045$$

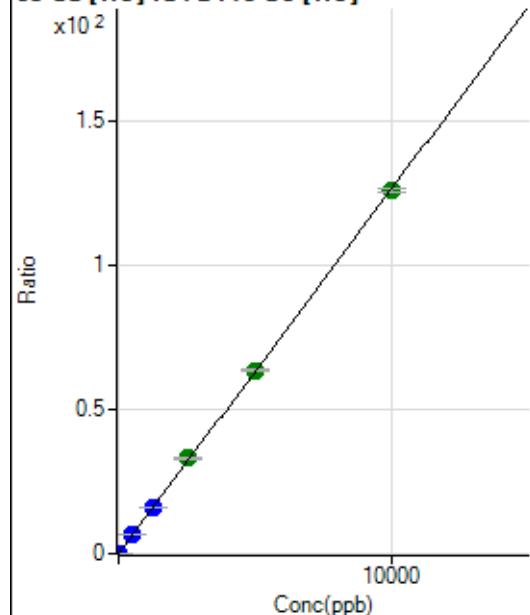
$$R = 1.0000$$

$$DL = 0.1256$$

$$BEC = 0.9552$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	703.36	0.0082	P	4.0
2	☐	2.000	2.323	3252.63	0.0376	P	0.9
3	☐	500.000	518.895	576221.66	6.5783	P	0.4
4	☐	1250.000	1279.617	1426445.48	16.2104	P	1.7
5	☐	2500.000	2617.337	2838797.91	33.1484	A	1.3
6	☐	5000.000	5032.369	5542646.31	63.7270	A	0.4
7	☐	10000.000	9949.834	10970965.53	125.9909	A	1.0
8	☐			8927.32	0.1012	P	6.0

$$y = 0.0127 * x + 0.0082$$

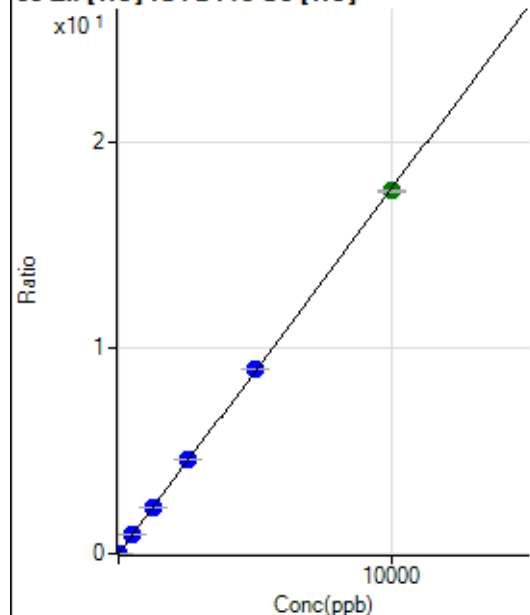
$$R = 0.9999$$

$$DL = 0.07761$$

$$BEC = 0.6475$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	115.56	0.0013	P	8.0
2	☐	2.000	2.057	432.23	0.0050	P	2.4
3	☐	500.000	516.585	80431.96	0.9182	P	0.5
4	☐	1250.000	1277.163	199594.52	2.2682	P	1.6
5	☐	2500.000	2573.242	391252.29	4.5686	P	0.6
6	☐	5000.000	5066.991	782304.82	8.9948	P	0.6
7	☐	10000.000	9943.969	1537059.16	17.6511	A	0.6
8	☐			6441.54	0.0730	P	1.8

$$y = 0.0018 * x + 0.0013$$

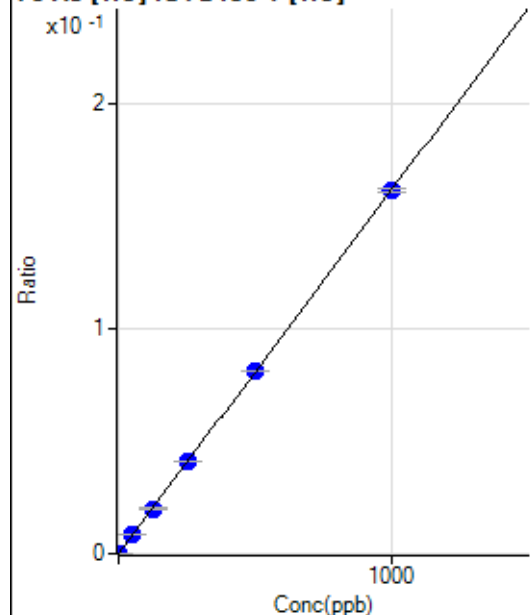
$$R = 0.9999$$

$$DL = 0.1814$$

$$BEC = 0.7592$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.67	0.0000	P	12.4
2	☐	1.000	0.999	121.68	0.0002	P	6.8
3	☐	50.000	50.627	5996.88	0.0082	P	0.8
4	☐	125.000	123.849	14742.50	0.0200	P	2.0
5	☐	250.000	253.659	29202.99	0.0409	P	0.5
6	☐	500.000	503.135	58772.21	0.0812	P	0.5
7	☐	1000.000	997.630	117915.29	0.1609	P	0.9
8	☐			74.34	0.0001	P	1.3

$$y = 1.6132E-004 * x + 6.4681E-006$$

$$R = 1.0000$$

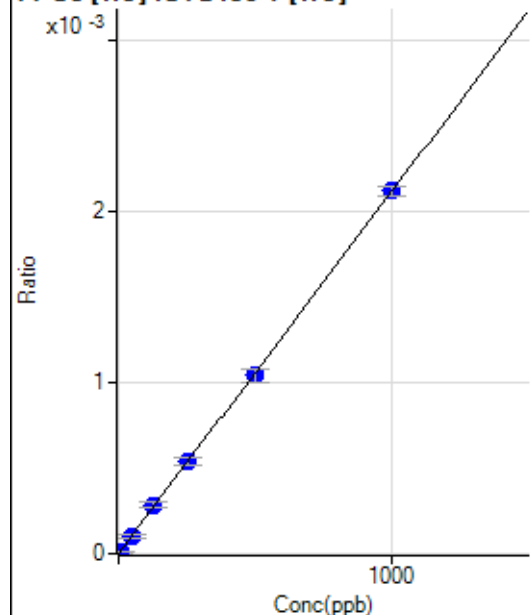
$$DL = 0.01486$$

$$BEC = 0.0401$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	5.065	8.89	0.0000	P	22.0
3	☐	50.000	47.200	74.45	0.0001	P	17.5
4	☐	125.000	133.659	210.00	0.0003	P	11.5
5	☐	250.000	252.489	382.23	0.0005	P	7.9
6	☐	500.000	492.404	755.59	0.0010	P	7.5
7	☐	1000.000	1002.233	1554.55	0.0021	P	2.9
8	☐			1.11	0.0000	P	173.2

$$y = 2.1157\text{E-}006 * x + 1.5438\text{E-}006$$

$$R = 0.9999$$

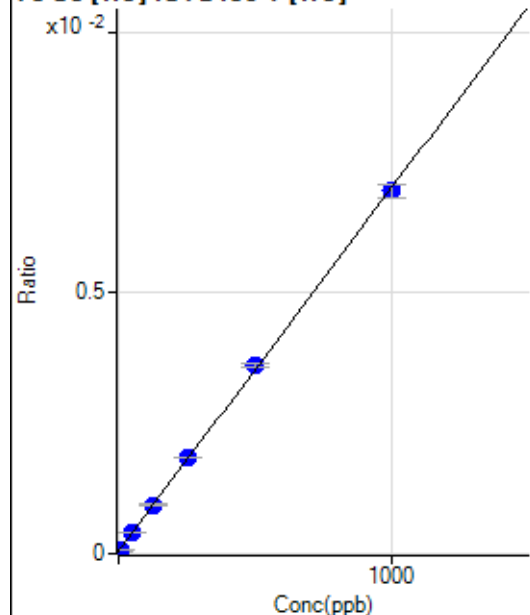
$$DL = 3.791$$

$$BEC = 0.7297$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.33	0.0001	P	8.8
2	☐	5.000	4.372	58.67	0.0001	P	16.3
3	☐	50.000	51.875	301.70	0.0004	P	4.5
4	☐	125.000	126.682	687.09	0.0009	P	4.3
5	☐	250.000	257.668	1314.87	0.0018	P	0.9
6	☐	500.000	511.422	2612.51	0.0036	P	2.5
7	☐	1000.000	992.071	5091.77	0.0070	P	3.4
8	☐			33.33	0.0000	P	17.7

$$y = 6.9561\text{E-}006 * x + 5.0370\text{E-}005$$

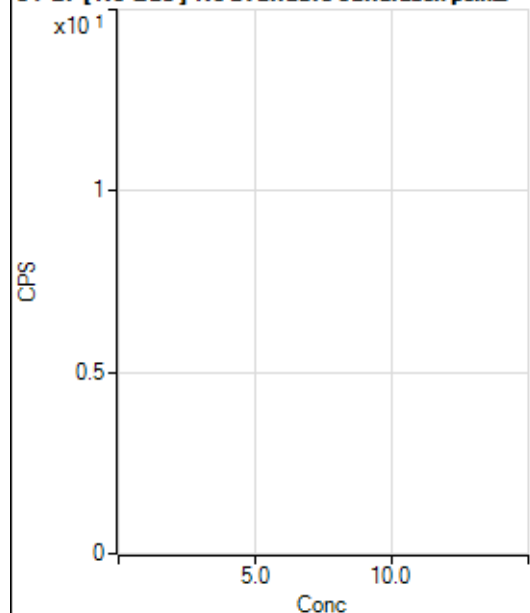
$$R = 0.9999$$

$$DL = 1.902$$

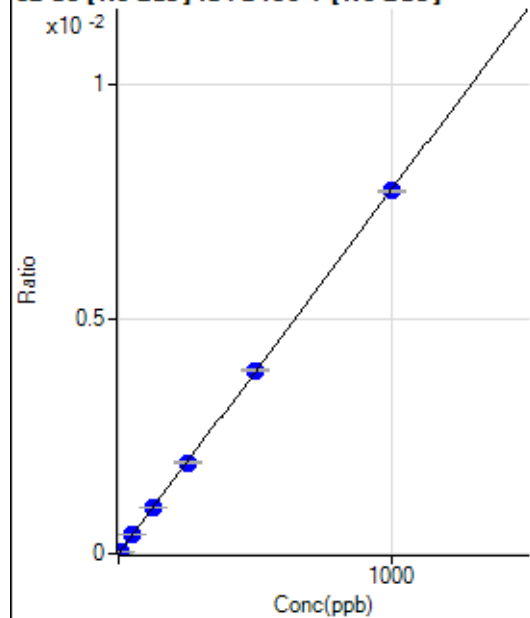
$$BEC = 7.241$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2479.44		P	9.2
2	☐			2562.89		P	7.4
3	☐			2509.49		P	7.2
4	☐			2619.63		P	3.1
5	☐			2703.09		P	2.9
6	☐			2889.97		P	3.3
7	☐			2923.32		P	2.7
8	☐			3030.13		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-4.53	0.0000	P	-1131.
2	☐	5.000	4.760	228.36	0.0000	P	15.5
3	☐	50.000	52.886	2581.63	0.0004	P	5.9
4	☐	125.000	126.925	6382.08	0.0010	P	2.0
5	☐	250.000	250.774	12309.96	0.0019	P	2.1
6	☐	500.000	504.393	24845.18	0.0039	P	0.4
7	☐	1000.000	997.226	49289.87	0.0077	P	0.2
8	☐			10.82	0.0000	P	128.1

$$y = 7.7454E-006 * x - 7.1575E-007$$

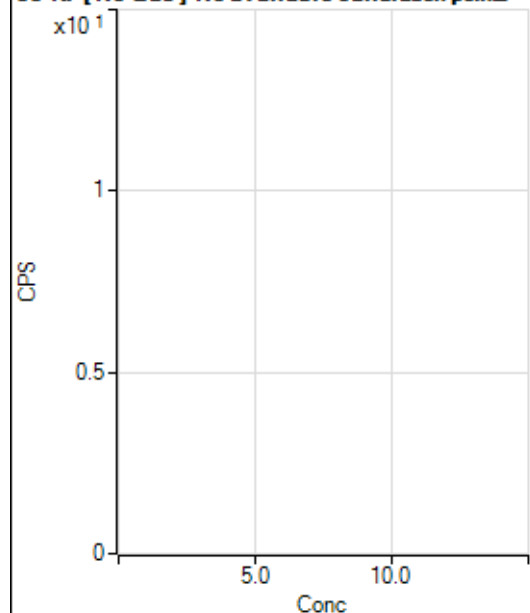
$$R = 1.0000$$

$$DL = 3.136$$

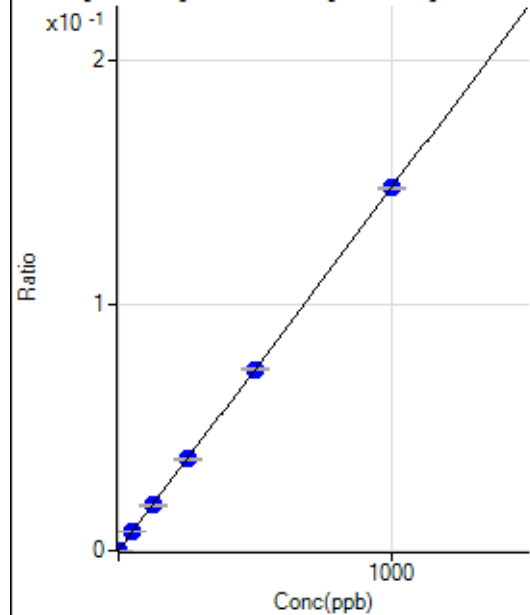
$$BEC = -0.09241$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			377.79		P	10.3
2	☐			370.01		P	15.0
3	☐			368.90		P	10.0
4	☐			372.23		P	15.3
5	☐			415.57		P	9.8
6	☐			337.78		P	17.0
7	☐			326.67		P	1.0
8	☐			390.01		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	636.14	0.0001	P	5.1
2	☐	1.000	1.060	1614.02	0.0003	P	5.6
3	☐	50.000	50.594	47779.44	0.0076	P	2.2
4	☐	125.000	123.969	119524.86	0.0184	P	1.1
5	☐	250.000	251.255	235768.65	0.0372	P	2.0
6	☐	500.000	499.862	469918.25	0.0739	P	1.6
7	☐	1000.000	999.854	942531.67	0.1477	P	0.6
8	☐			6065.34	0.0010	P	2.6

$$y = 1.4761E-004 * x + 9.9129E-005$$

$$R = 1.0000$$

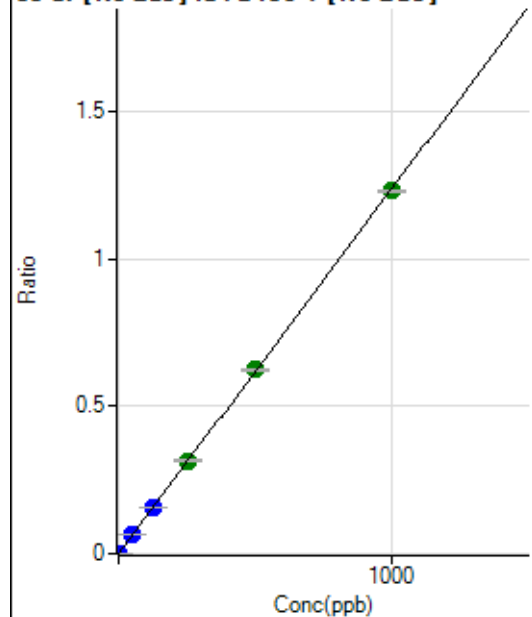
$$DL = 0.1025$$

$$BEC = 0.6716$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	169.45	0.0000	P	10.4
2	☐	1.000	1.041	8302.65	0.0013	P	4.8
3	☐	50.000	52.581	411074.50	0.0651	P	3.5
4	☐	125.000	127.105	1022292.50	0.1574	P	0.9
5	☐	250.000	254.386	1996845.92	0.3149	A	1.7
6	☐	500.000	506.174	3985196.05	0.6266	A	1.1
7	☐	1000.000	995.424	7863653.91	1.2322	A	0.4
8	☐			46414.06	0.0073	P	2.9

$$y = 0.0012 * x + 2.6407E-005$$

$$R = 1.0000$$

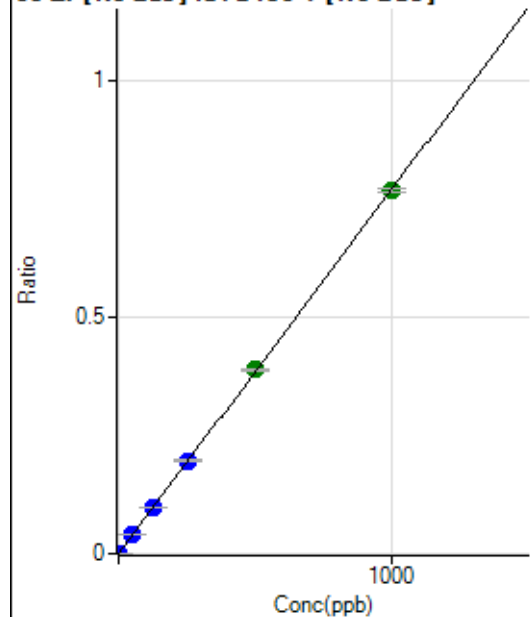
$$DL = 0.006648$$

$$BEC = 0.02133$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	294.46	0.0000	P	7.0
2	☐	1.000	0.977	5048.28	0.0008	P	5.2
3	☐	50.000	51.631	251611.04	0.0398	P	2.1
4	☐	125.000	125.406	628381.59	0.0967	P	1.4
5	☐	250.000	253.877	1241184.33	0.1958	P	2.0
6	☐	500.000	504.581	2474541.50	0.3890	A	0.6
7	☐	1000.000	996.608	4903975.80	0.7684	A	1.1
8	☐			2814.25	0.0004	P	6.8

$$y = 7.7093E-004 * x + 4.5879E-005$$

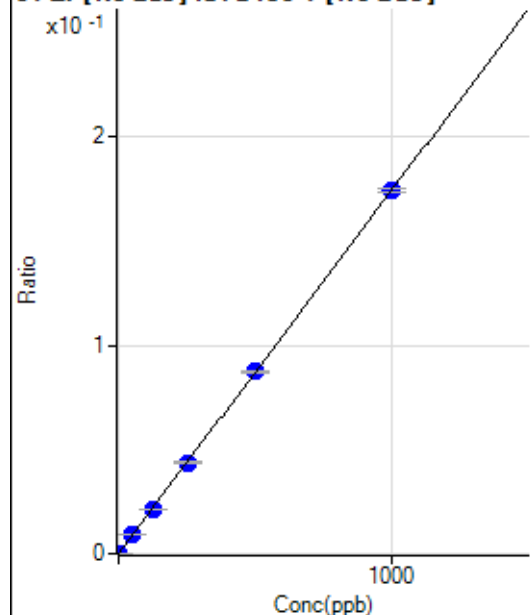
$$R = 1.0000$$

$$DL = 0.01242$$

$$BEC = 0.05951$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	20.2
2	☐	1.000	1.000	1141.74	0.0002	P	11.4
3	☐	50.000	50.897	56054.88	0.0089	P	2.2
4	☐	125.000	122.375	138615.45	0.0213	P	0.6
5	☐	250.000	251.363	277828.44	0.0438	P	1.7
6	☐	500.000	501.457	555972.38	0.0874	P	0.9
7	☐	1000.000	999.214	1111588.25	0.1742	P	1.2
8	☐			652.81	0.0001	P	13.8

$$y = 1.7430\text{E-}004 * x + 6.4941\text{E-}006$$

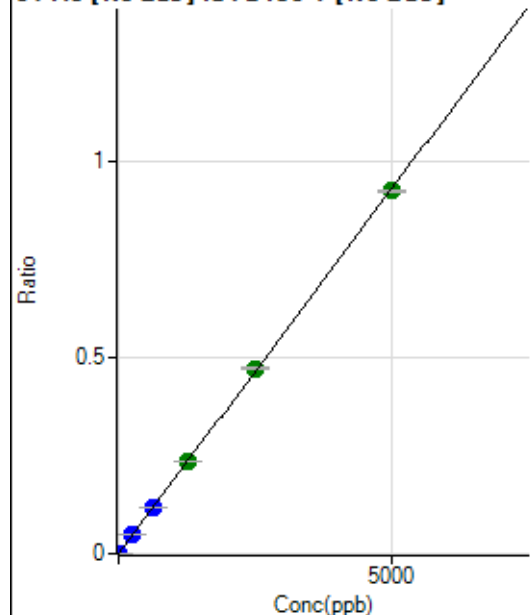
$$R = 1.0000$$

$$DL = 0.02257$$

$$BEC = 0.03726$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.11	0.0000	P	8.8
2	☐	5.000	4.758	5687.42	0.0009	P	2.3
3	☐	250.000	260.774	305657.91	0.0484	P	1.2
4	☐	625.000	626.209	755022.03	0.1162	P	0.8
5	☐	1250.000	1267.398	1491343.84	0.2352	A	1.2
6	☐	2500.000	2539.249	2996948.44	0.4712	A	1.3
7	☐	5000.000	4975.336	5892266.45	0.9232	A	0.4
8	☐			3153.22	0.0005	P	8.8

$$y = 1.8556\text{E-}004 * x + 1.7315\text{E-}005$$

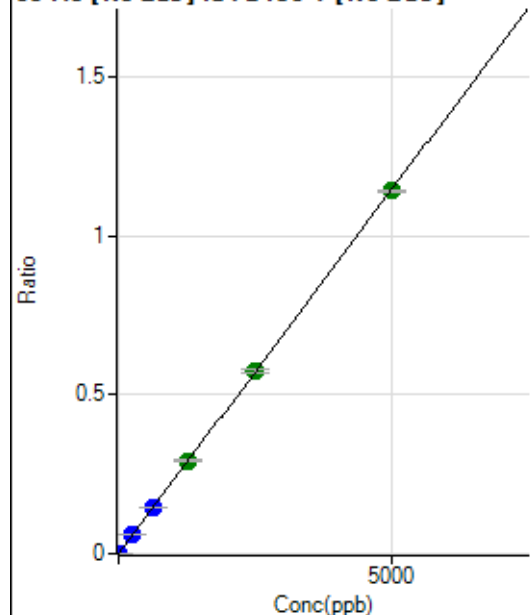
$$R = 0.9999$$

$$DL = 0.02454$$

$$BEC = 0.09331$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	21.5
2	☐	5.000	4.874	7060.32	0.0011	P	6.4
3	☐	250.000	260.944	377018.58	0.0597	P	1.4
4	☐	625.000	625.503	929815.20	0.1431	P	0.6
5	☐	1250.000	1274.244	1848693.38	0.2916	A	1.2
6	☐	2500.000	2514.737	3659758.50	0.5754	A	1.5
7	☐	5000.000	4985.961	7280624.99	1.1408	A	0.6
8	☐			3572.77	0.0006	P	1.7

$$y = 2.2880\text{E-}004 * x + 3.4618\text{E-}006$$

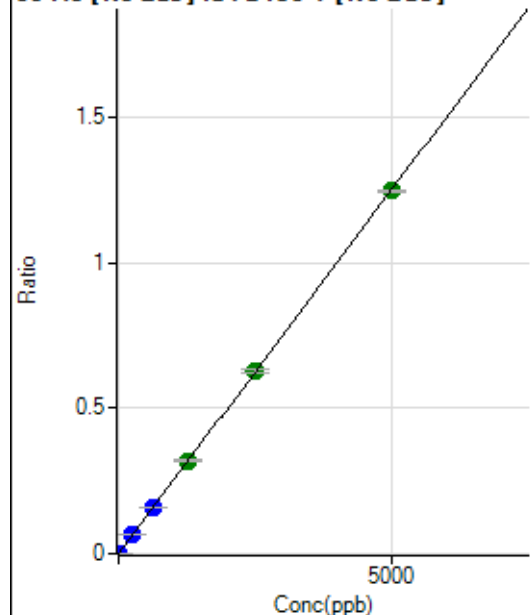
R = 1.0000

DL = 0.009742

BEC = 0.01513

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	49.9
2	☐	5.000	5.106	8088.71	0.0013	P	2.5
3	☐	250.000	262.793	414611.84	0.0657	P	1.4
4	☐	625.000	634.407	1029732.72	0.1585	P	0.6
5	☐	1250.000	1272.961	2016517.45	0.3180	A	2.0
6	☐	2500.000	2511.638	3991091.45	0.6275	A	1.4
7	☐	5000.000	4986.625	7950890.80	1.2458	A	0.7
8	☐			4964.91	0.0008	P	4.8

$$y = 2.4983\text{E-}004 * x + 5.1909\text{E-}006$$

R = 1.0000

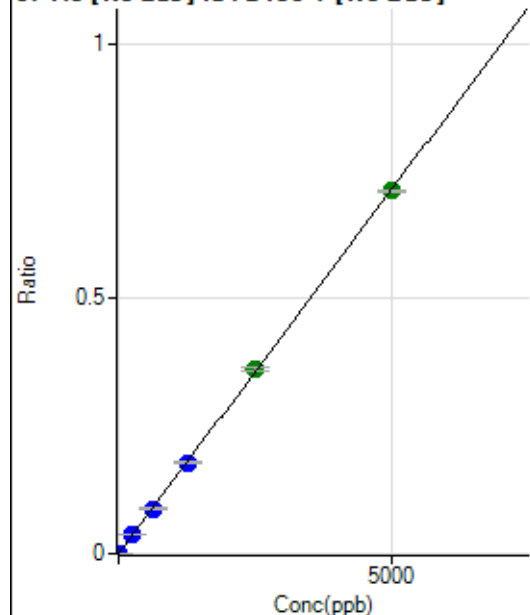
DL = 0.03109

BEC = 0.02078

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	34.7
2	☐	5.000	4.875	4406.36	0.0007	P	2.9
3	☐	250.000	255.493	230241.78	0.0365	P	1.2
4	☐	625.000	618.627	573549.17	0.0883	P	1.1
5	☐	1250.000	1251.236	1132059.92	0.1786	P	2.0
6	☐	2500.000	2534.498	2300592.43	0.3617	A	1.1
7	☐	5000.000	4982.964	4538321.54	0.7111	A	0.5
8	☐			2339.15	0.0004	P	0.8

$$y = 1.4270\text{E-}004 * x + 2.1649\text{E-}006$$

$$R = 1.0000$$

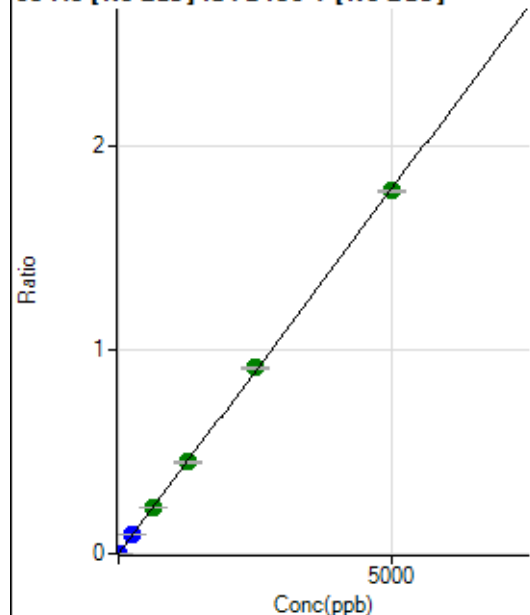
$$DL = 0.01581$$

$$BEC = 0.01517$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.0
2	☐	5.000	5.109	11527.34	0.0018	P	4.1
3	☐	250.000	262.006	590832.59	0.0936	P	1.6
4	☐	625.000	623.913	1447610.85	0.2228	A	0.2
5	☐	1250.000	1258.282	2848569.12	0.4494	A	3.0
6	☐	2500.000	2545.841	5783275.78	0.9092	A	1.3
7	☐	5000.000	4974.545	11338363.53	1.7766	A	0.7
8	☐			6023.69	0.0010	P	4.5

$$y = 3.5713\text{E-}004 * x + 1.2969\text{E-}006$$

$$R = 0.9999$$

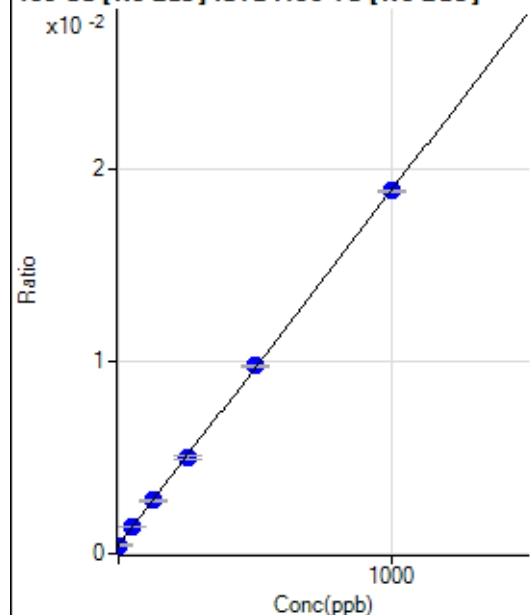
$$DL = 0.0109$$

$$BEC = 0.003632$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1772.39	0.0004	P	6.2
2	☐	1.000	-0.078	1766.83	0.0004	P	18.5
3	☐	50.000	50.345	5515.16	0.0014	P	1.2
4	☐	125.000	125.369	11377.26	0.0028	P	1.9
5	☐	250.000	248.245	20357.22	0.0050	P	3.3
6	☐	500.000	504.367	39562.87	0.0097	P	1.6
7	☐	1000.000	998.193	77146.26	0.0189	P	0.6
8	☐			1722.38	0.0004	P	3.7

$$y = 1.8451\text{E-}005 * x + 4.4198\text{E-}004$$

$$R = 1.0000$$

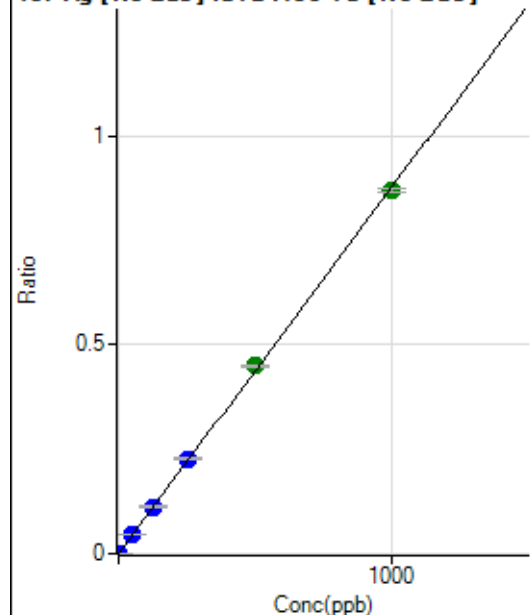
$$DL = 4.422$$

$$BEC = 23.95$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	21.1
2	☐	1.000	0.970	3478.30	0.0009	P	6.4
3	☐	50.000	52.227	184080.60	0.0458	P	1.4
4	☐	125.000	128.451	464608.36	0.1125	P	2.0
5	☐	250.000	258.400	917490.13	0.2263	P	2.2
6	☐	500.000	512.378	1821308.25	0.4488	A	1.0
7	☐	1000.000	991.168	3550917.57	0.8681	A	0.9
8	☐			2730.90	0.0007	P	7.1

$$y = 8.7581\text{E-}004 * x + 1.6606\text{E-}005$$

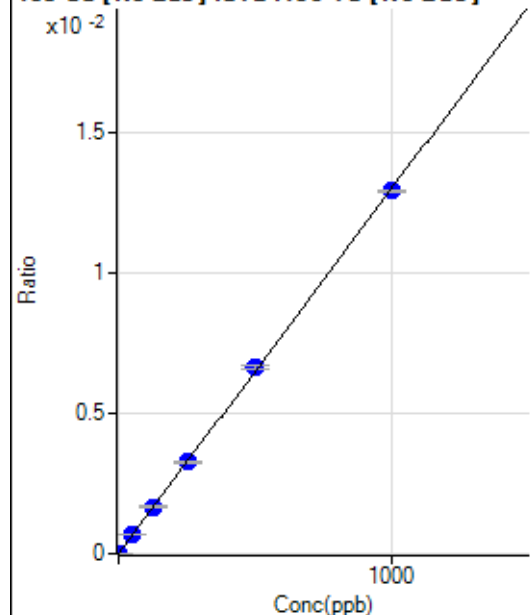
$$R = 0.9998$$

$$DL = 0.012$$

$$BEC = 0.01896$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.94	0.0000	P	33.9
2	☐	1.000	1.360	77.78	0.0000	P	16.2
3	☐	50.000	51.509	2697.52	0.0007	P	0.5
4	☐	125.000	127.394	6836.50	0.0017	P	3.1
5	☐	250.000	251.858	13262.06	0.0033	P	2.8
6	☐	500.000	509.465	26852.55	0.0066	P	2.0
7	☐	1000.000	994.428	52821.56	0.0129	P	0.8
8	☐			70.83	0.0000	P	5.2

$$y = 1.2983\text{E-}005 * x + 1.7269\text{E-}006$$

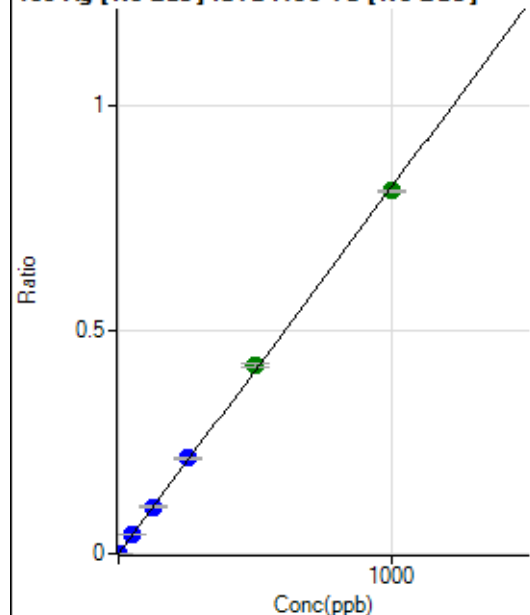
$$R = 0.9999$$

$$DL = 0.1352$$

$$BEC = 0.133$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	14.4
2	☐	1.000	0.994	3306.04	0.0008	P	5.8
3	☐	50.000	52.560	173350.12	0.0431	P	1.1
4	☐	125.000	128.495	434952.16	0.1053	P	1.6
5	☐	250.000	260.033	864067.69	0.2131	P	2.1
6	☐	500.000	514.427	1711216.60	0.4217	A	1.9
7	☐	1000.000	989.714	3318394.50	0.8112	A	0.8
8	☐			2622.55	0.0007	P	5.0

$$y = 8.1964\text{E-}004 * x + 9.0095\text{E-}006$$

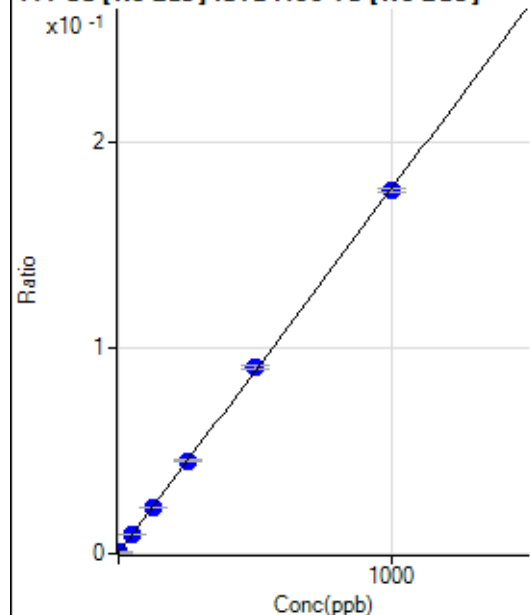
$$R = 0.9998$$

$$DL = 0.004743$$

$$BEC = 0.01099$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1242.76	0.0003	P	6.5
2	☐	1.000	1.070	2003.21	0.0005	P	14.0
3	☐	50.000	51.779	38144.85	0.0095	P	2.9
4	☐	125.000	126.004	93448.31	0.0226	P	1.3
5	☐	250.000	253.802	183511.14	0.0453	P	2.6
6	☐	500.000	510.410	368176.67	0.0907	P	1.5
7	☐	1000.000	993.630	721208.29	0.1763	P	1.2
8	☐			1638.04	0.0004	P	1.4

$$y = 1.7713\text{E-}004 * x + 3.0991\text{E-}004$$

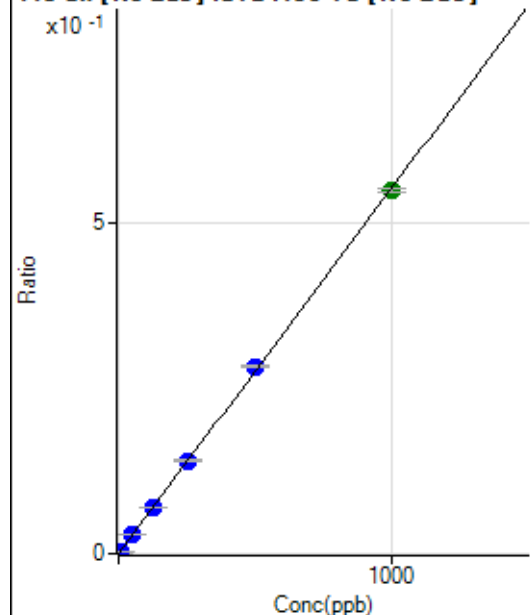
$$R = 0.9999$$

$$DL = 0.3405$$

$$BEC = 1.75$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	219.45	0.0001	P	24.2
2	☐	5.000	4.799	10837.95	0.0027	P	3.0
3	☐	50.000	51.645	114695.44	0.0285	P	1.2
4	☐	125.000	126.268	287509.24	0.0696	P	2.0
5	☐	250.000	254.392	568464.15	0.1402	P	1.8
6	☐	500.000	510.783	1142415.10	0.2815	P	1.0
7	☐	1000.000	993.271	2238910.20	0.5473	A	1.1
8	☐			1472.35	0.0004	P	11.4

$$y = 5.5098\text{E-}004 * x + 5.4784\text{E-}005$$

$$R = 0.9999$$

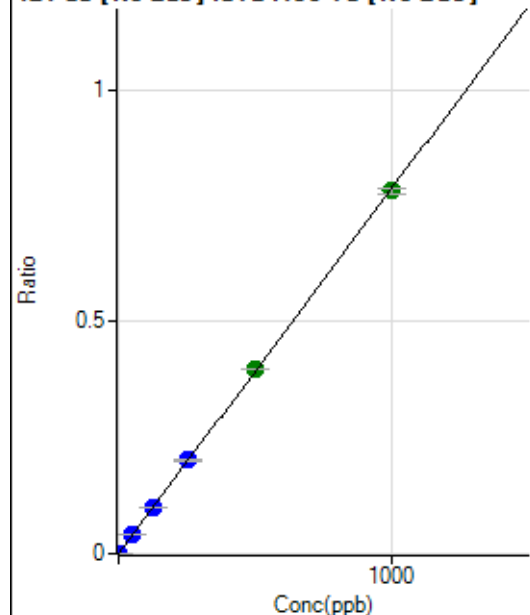
$$DL = 0.07218$$

$$BEC = 0.09943$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD : 159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	77.6
2	☐	2.000	1.919	6084.85	0.0015	P	3.8
3	☐	50.000	51.474	163005.17	0.0405	P	1.0
4	☐	125.000	125.780	408839.34	0.0990	P	1.2
5	☐	250.000	256.077	817125.49	0.2016	P	1.8
6	☐	500.000	507.751	1621974.50	0.3996	A	0.3
7	☐	1000.000	994.435	3201540.67	0.7827	A	1.5
8	☐			3814.54	0.0009	P	7.5

$$y = 7.8706\text{E-}004 * x + 5.5331\text{E-}006$$

$$R = 0.9999$$

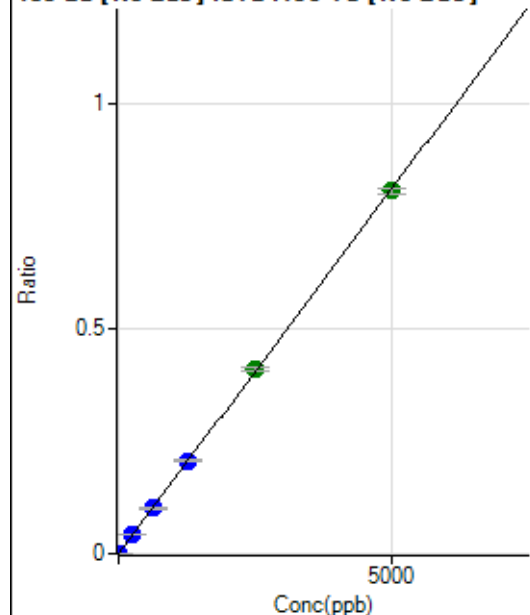
$$DL = 0.01636$$

$$BEC = 0.00703$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.0
2	☐	10.000	9.774	6382.22	0.0016	P	1.7
3	☐	250.000	256.464	167328.08	0.0416	P	2.4
4	☐	625.000	622.945	417183.19	0.1010	P	1.5
5	☐	1250.000	1274.463	837961.36	0.2067	P	1.0
6	☐	2500.000	2533.458	1667287.27	0.4108	A	2.0
7	☐	5000.000	4977.090	3301569.56	0.8071	A	1.9
8	☐			6776.87	0.0017	P	7.4

$$y = 1.6216\text{E-}004 * x + 4.8438\text{E-}006$$

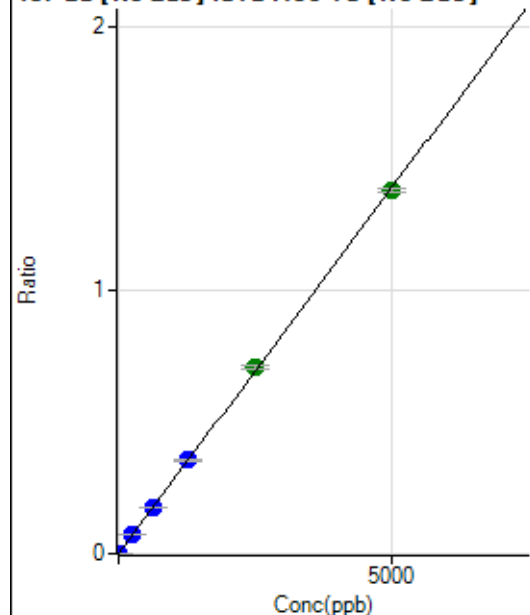
$$R = 1.0000$$

$$DL = 0.05827$$

$$BEC = 0.02987$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	68.8
2	☐	10.000	9.883	11043.67	0.0028	P	1.2
3	☐	250.000	261.010	291569.13	0.0725	P	2.4
4	☐	625.000	632.497	725245.62	0.1756	P	2.0
5	☐	1250.000	1284.590	1446120.93	0.3567	P	1.6
6	☐	2500.000	2554.886	2879119.42	0.7094	A	1.5
7	☐	5000.000	4962.422	5636543.70	1.3779	A	1.2
8	☐			11755.38	0.0029	P	1.3

$$y = 2.7767E-004 * x + 6.9104E-006$$

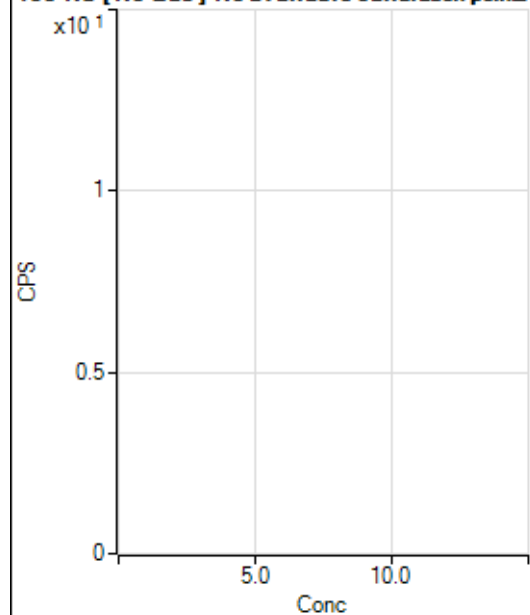
$$R = 0.9999$$

$$DL = 0.05135$$

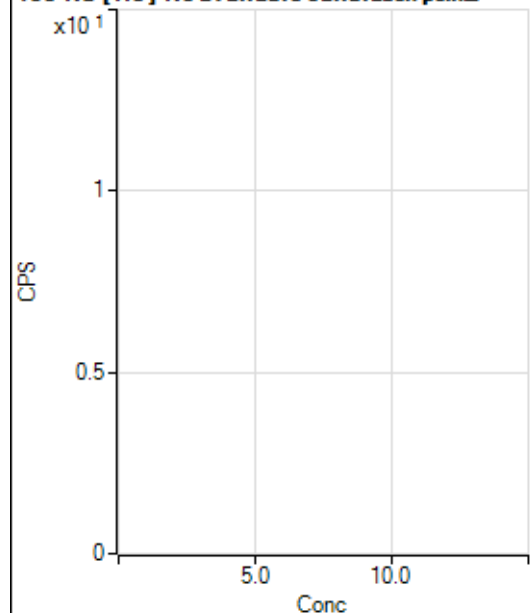
$$BEC = 0.02489$$

Weight: <None>

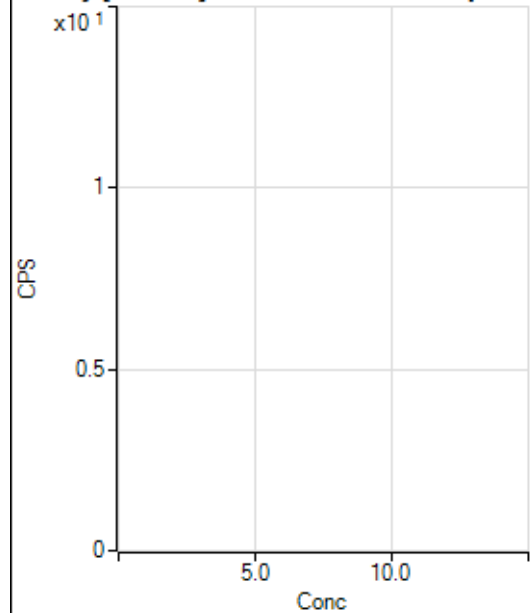
Min Conc: 0

150 Nd [No Gas] No available calibration points

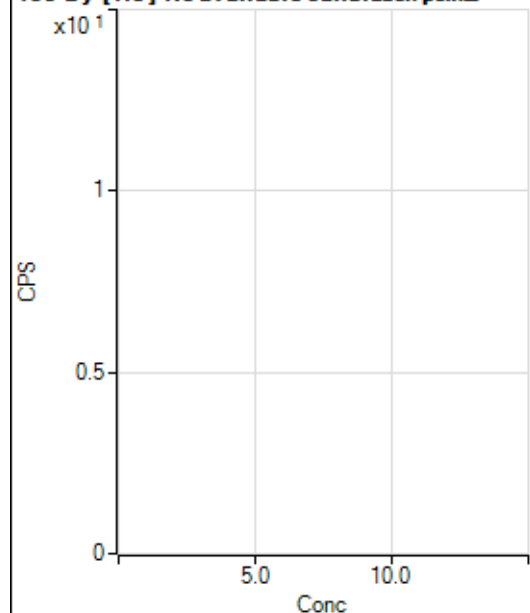
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	50.0
2	☐			0.00		P	
3	☐			11.11		P	34.6
4	☐			35.56		P	60.3
5	☐			48.89		P	34.3
6	☐			102.23		P	37.1
7	☐			162.23		P	37.3
8	☐			17.78		P	57.3

150 Nd [He] No available calibration points

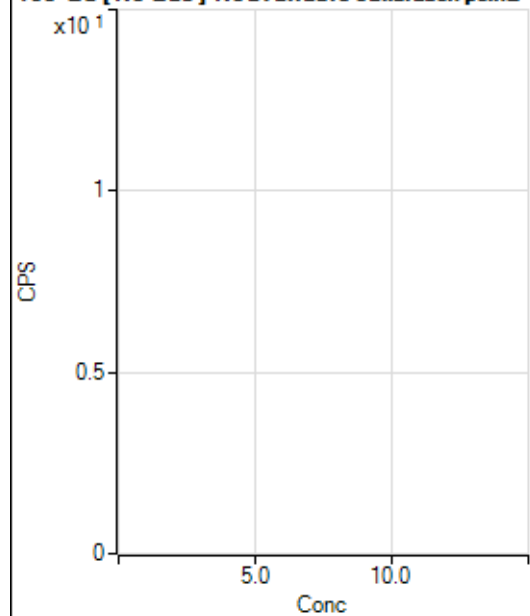
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			3.33		P	100.1
5	☐			5.56		P	91.6
6	☐			15.55		P	24.8
7	☐			14.45		P	26.7
8	☐			6.67		P	50.0

156 Dy [No Gas] No available calibration points

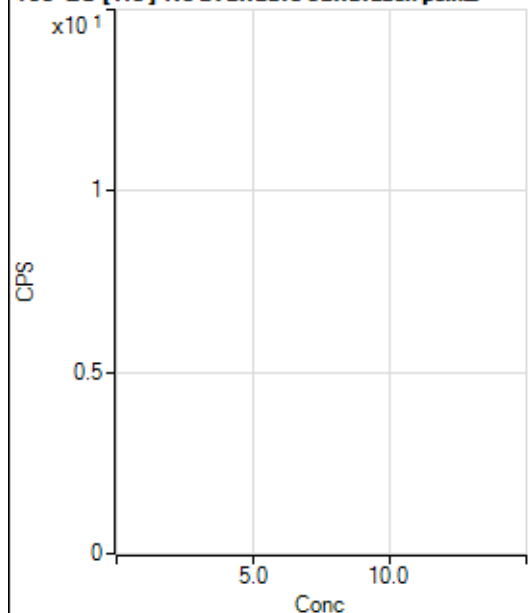
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	49.5
2	☐			11.11		P	114.6
3	☐			11.11		P	114.6
4	☐			52.78		P	50.8
5	☐			33.33		P	25.0
6	☐			77.78		P	32.7
7	☐			125.01		P	30.5
8	☐			197.23		P	21.3

156 Dy [He] No available calibration points

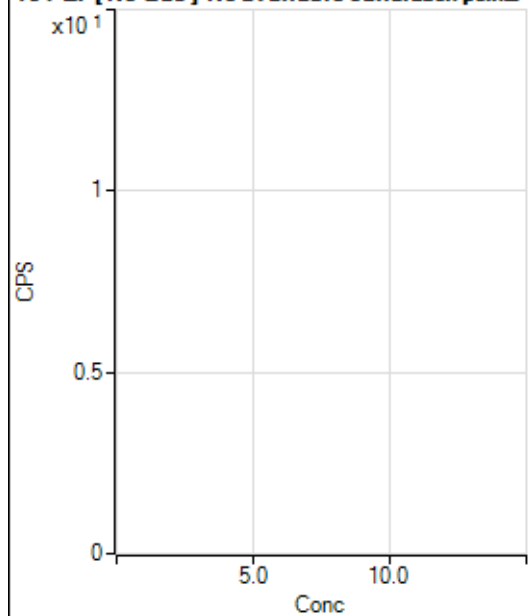
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			4.44		P	114.6
3	☐			5.55		P	69.3
4	☐			6.66		P	86.6
5	☐			11.11		P	45.8
6	☐			24.44		P	61.5
7	☐			25.56		P	19.9
8	☐			96.67		P	15.8

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

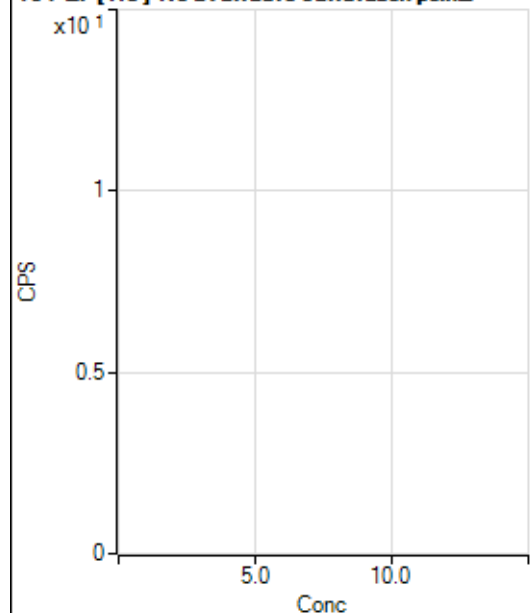
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			41.67		P	72.1
2	☐			22.22		P	78.1
3	☐			27.78		P	45.8
4	☐			63.89		P	39.8
5	☐			63.89		P	7.5
6	☐			97.22		P	39.6
7	☐			116.67		P	18.9
8	☐			216.67		P	19.2

160 Gd [He] No available calibration points

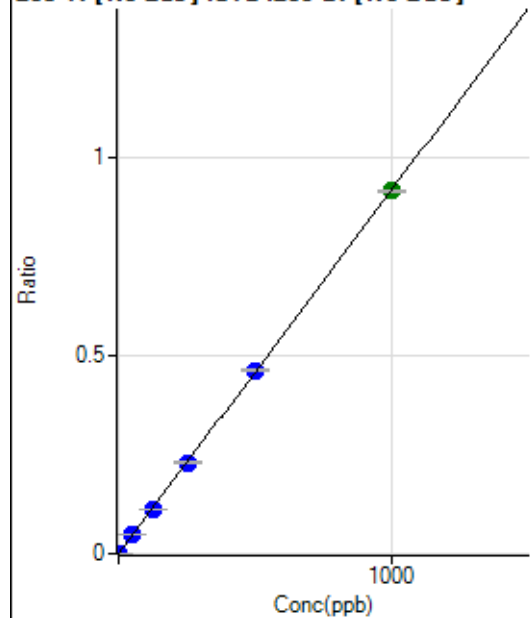
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			18.89		P	27.0
2	☐			11.11		P	69.3
3	☐			13.33		P	90.2
4	☐			11.11		P	96.4
5	☐			25.56		P	19.9
6	☐			23.33		P	37.8
7	☐			57.78		P	23.3
8	☐			123.34		P	2.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	69.3
2	☐			16.67		P	50.0
3	☐			25.00		P	66.7
4	☐			19.44		P	65.5
5	☐			33.33		P	25.0
6	☐			30.56		P	41.7
7	☐			30.56		P	41.7
8	☐			38.89		P	32.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			7.78		P	65.5
2	☐			7.78		P	24.7
3	☐			15.55		P	24.8
4	☐			4.44		P	114.6
5	☐			15.56		P	65.5
6	☐			18.89		P	53.9
7	☐			8.89		P	114.5
8	☐			16.67		P	20.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	49.4
2	☐	1.000	0.919	1861.30	0.0009	P	5.4
3	☐	50.000	51.015	102992.99	0.0468	P	1.3
4	☐	125.000	122.440	254525.00	0.1123	P	0.9
5	☐	250.000	250.749	508924.98	0.2299	P	1.2
6	☐	500.000	503.943	1018486.36	0.4621	P	0.8
7	☐	1000.000	998.111	2015919.40	0.9151	A	0.4
8	☐			2169.70	0.0010	P	9.6

$$y = 9.1686E-004 * x + 8.8293E-006$$

$$R = 1.0000$$

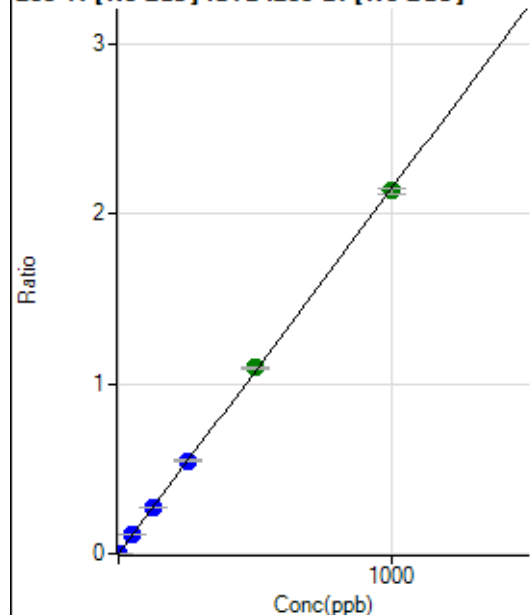
$$DL = 0.01428$$

$$BEC = 0.00963$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	69.45	0.0000	P	45.2
2	☐	1.000	0.965	4600.94	0.0021	P	3.1
3	☐	50.000	51.670	244548.03	0.1111	P	2.4
4	☐	125.000	125.519	611666.06	0.2698	P	1.3
5	☐	250.000	254.849	1212598.42	0.5478	P	1.4
6	☐	500.000	508.889	2411078.50	1.0939	A	1.5
7	☐	1000.000	994.195	4707823.28	2.1370	A	1.5
8	☐			5134.51	0.0025	P	6.6

$$y = 0.0021 * x + 3.1523E-005$$

$$R = 0.9999$$

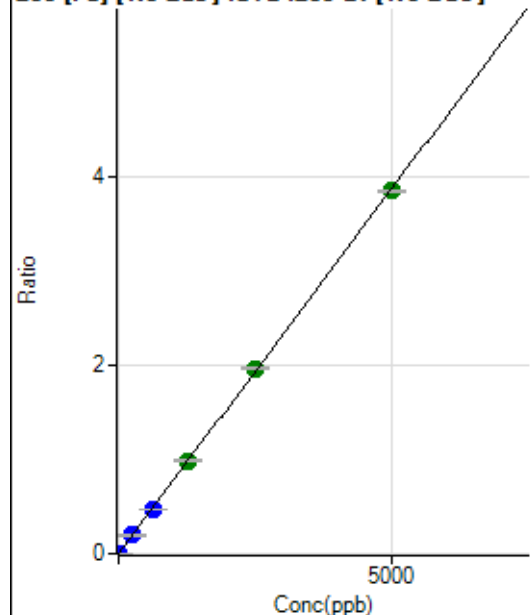
$$DL = 0.01987$$

$$BEC = 0.01467$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	307.42	0.0001	P	26.5
2	☐	1.000	0.902	1827.94	0.0008	P	3.8
3	☐	250.000	252.213	429508.05	0.1951	P	2.6
4	☐	625.000	614.944	1078018.27	0.4755	P	0.9
5	☐	1250.000	1268.577	2171038.11	0.9808	A	1.8
6	☐	2500.000	2543.234	4333953.28	1.9662	A	0.8
7	☐	5000.000	4974.885	8472603.84	3.8461	A	0.7
8	☐			12239.28	0.0059	P	4.3

$$y = 7.7307E-004 * x + 1.3940E-004$$

$$R = 0.9999$$

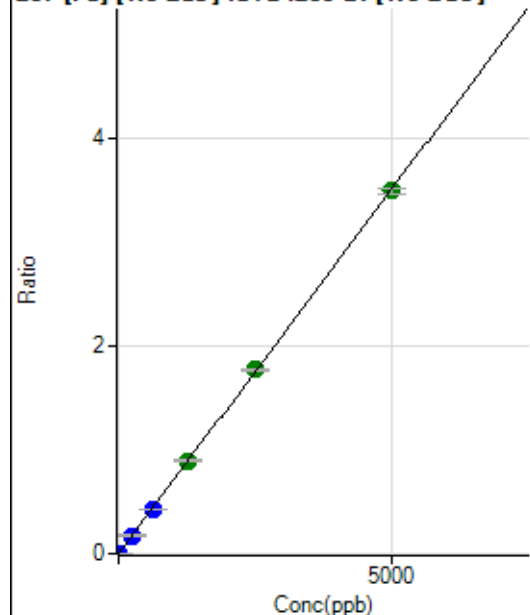
$$DL = 0.1433$$

$$BEC = 0.1803$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	244.45	0.0001	P	8.1
2	☐	1.000	0.909	1637.17	0.0007	P	8.5
3	☐	250.000	249.993	386406.93	0.1755	P	1.6
4	☐	625.000	602.508	958642.31	0.4229	P	1.1
5	☐	1250.000	1279.315	1987234.27	0.8978	A	1.4
6	☐	2500.000	2531.252	3915206.43	1.7762	A	1.1
7	☐	5000.000	4979.857	7698048.79	3.4943	A	1.3
8	☐			10630.44	0.0051	P	3.3

$$y = 7.0167\text{E-}004 * x + 1.1108\text{E-}004$$

$$R = 0.9999$$

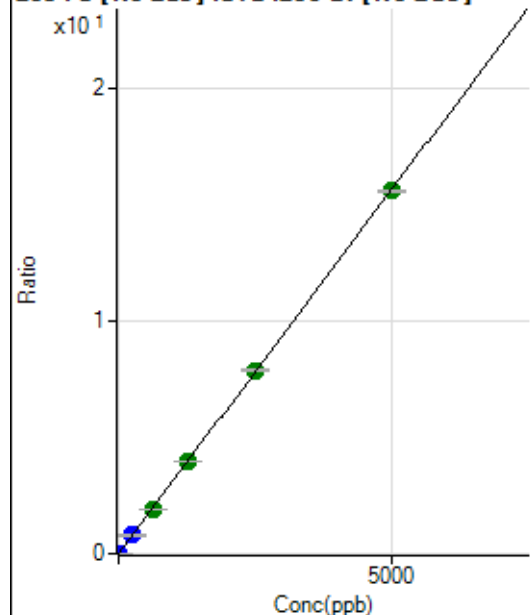
$$DL = 0.03857$$

$$BEC = 0.1583$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1216.71	0.0006	P	5.8
2	☐	1.000	0.906	7410.23	0.0034	P	2.9
3	☐	250.000	251.788	1737805.71	0.7894	P	1.6
4	☐	625.000	614.546	4365998.21	1.9259	A	0.7
5	☐	1250.000	1272.640	8826994.02	3.9877	A	1.2
6	☐	2500.000	2521.371	17413046.26	7.8999	A	0.3
7	☐	5000.000	4984.872	34405794.93	15.6180	A	0.7
8	☐			47890.46	0.0229	P	1.6

$$y = 0.0031 * x + 5.5254\text{E-}004$$

$$R = 1.0000$$

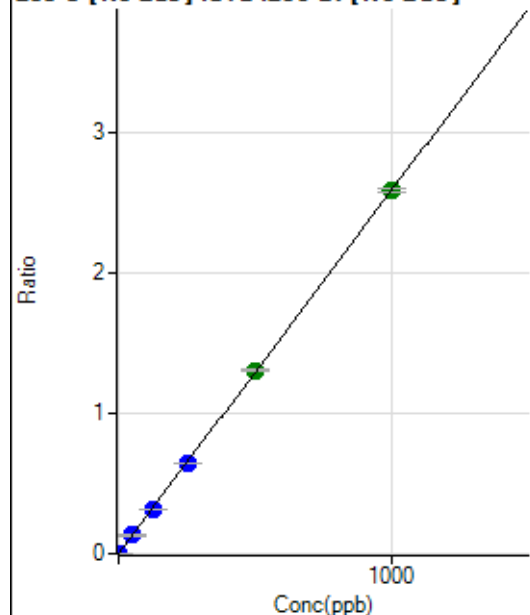
$$DL = 0.0305$$

$$BEC = 0.1764$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	1.000	0.923	5223.44	0.0024	P	1.9
3	☐	50.000	50.458	287406.74	0.1306	P	2.0
4	☐	125.000	121.741	714120.36	0.3150	P	1.3
5	☐	250.000	248.290	1422109.04	0.6424	P	1.1
6	☐	500.000	503.854	2873559.57	1.3037	A	1.1
7	☐	1000.000	998.885	5693625.39	2.5846	A	0.9
8	☐			2041.89	0.0010	P	2.7

$$y = 0.0026 * x + 2.5386E-006$$

$$R = 1.0000$$

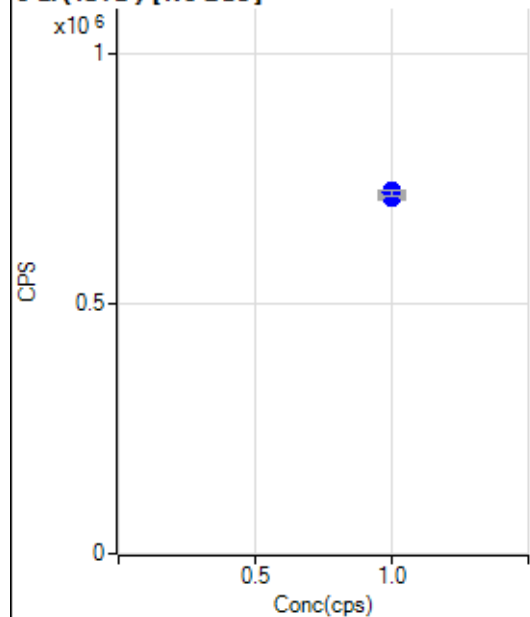
$$DL = 0.002549$$

$$BEC = 0.0009811$$

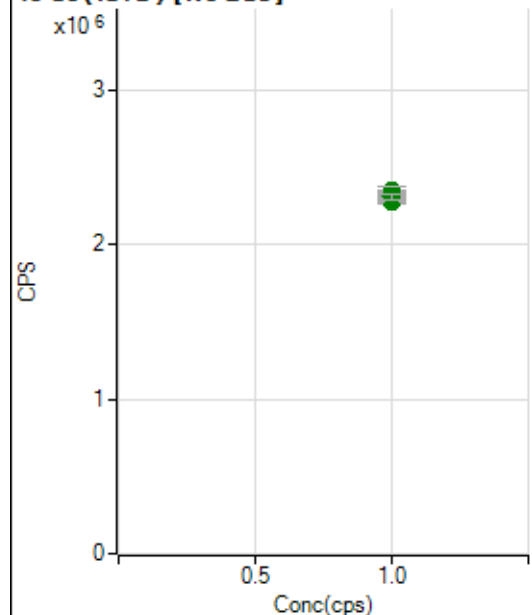
Weight: <None>

Min Conc: 0

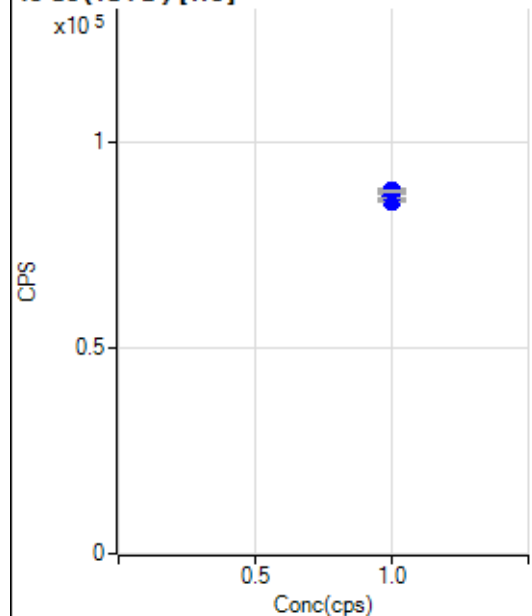
6 Li (ISTD) [No Gas]



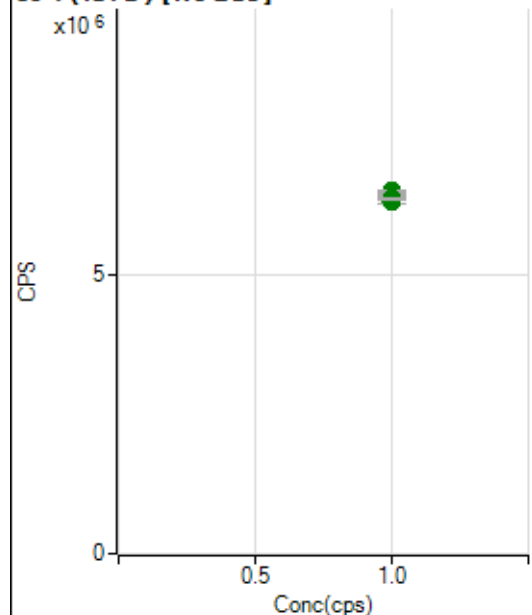
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		725564.23		P	0.8
2	☐	1.000		712413.12		P	0.9
3	☐	1.000		714131.21		P	1.1
4	☐	1.000		724833.22		P	0.5
5	☐	1.000		713472.84		P	1.6
6	☐	1.000		709600.95		P	0.8
7	☐	1.000		713420.54		P	0.3
8	☐	1.000		721608.73		P	1.8

45 Sc (ISTD) [No Gas]

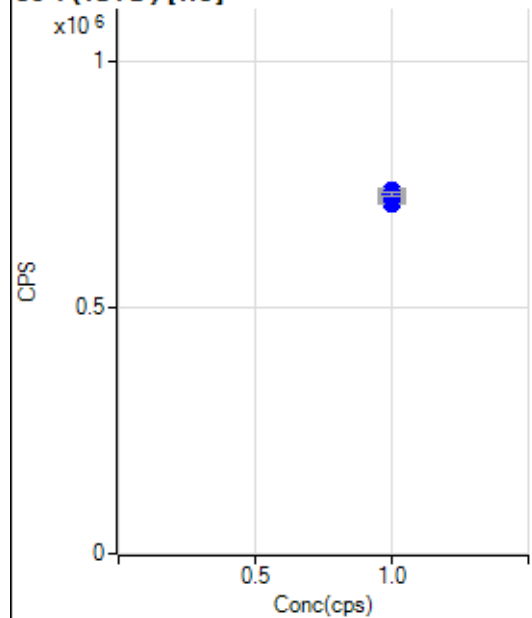
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2309545.64		A	0.6
2	☐	1.000		2271553.28		A	1.2
3	☐	1.000		2296975.63		A	1.7
4	☐	1.000		2344164.48		A	0.9
5	☐	1.000		2327100.94		A	3.4
6	☐	1.000		2288584.97		A	1.7
7	☐	1.000		2312500.37		A	1.5
8	☐	1.000		2307405.89		A	1.3

45 Sc (ISTD) [He]

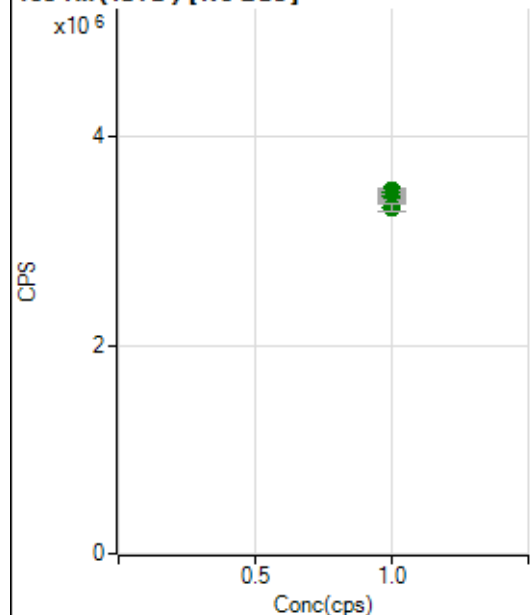
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		85792.88		P	0.7
2	☐	1.000		86473.77		P	0.5
3	☐	1.000		87594.92		P	0.5
4	☐	1.000		88012.80		P	1.7
5	☐	1.000		85638.82		P	0.1
6	☐	1.000		86974.33		P	0.7
7	☐	1.000		87084.00		P	1.1
8	☐	1.000		88232.07		P	0.7

89 Y (ISTD) [No Gas]

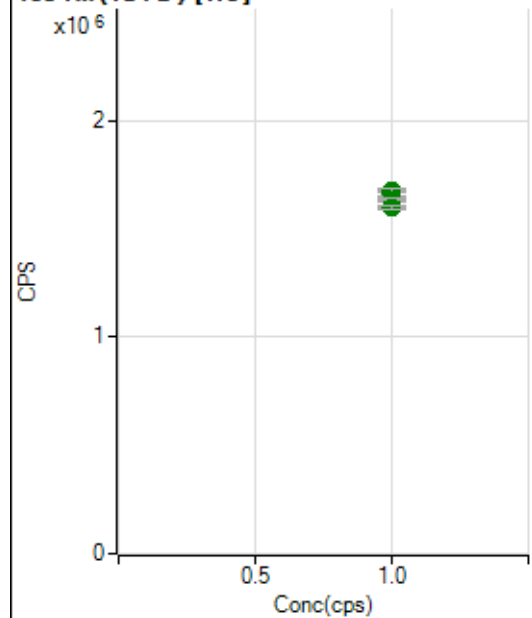
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6417641.50		A	0.2
2	☐	1.000		6316231.64		A	1.9
3	☐	1.000		6314984.07		A	1.1
4	☐	1.000		6496831.01		A	0.5
5	☐	1.000		6342029.28		A	2.4
6	☐	1.000		6360714.97		A	0.8
7	☐	1.000		6382098.38		A	0.7
8	☐	1.000		6339358.24		A	0.6

89 Y (ISTD) [He]

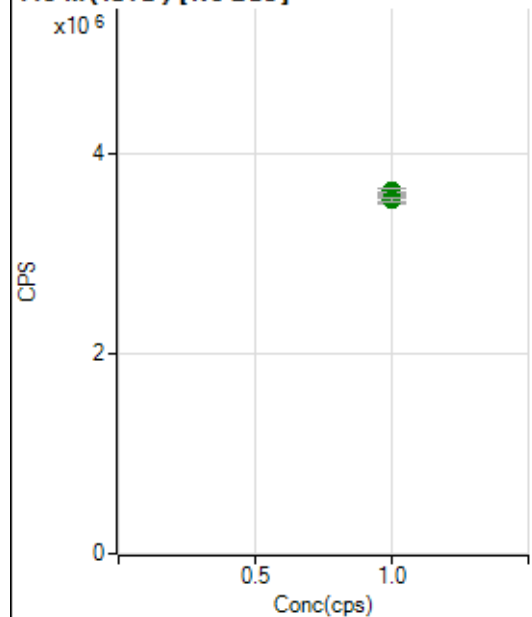
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		721480.80		P	0.4
2	☐	1.000		725491.39		P	1.1
3	☐	1.000		733683.05		P	0.6
4	☐	1.000		737833.54		P	1.7
5	☐	1.000		713549.52		P	0.4
6	☐	1.000		724066.21		P	0.4
7	☐	1.000		732730.48		P	1.6
8	☐	1.000		732043.73		P	0.8

103 Rh (ISTD) [No Gas]

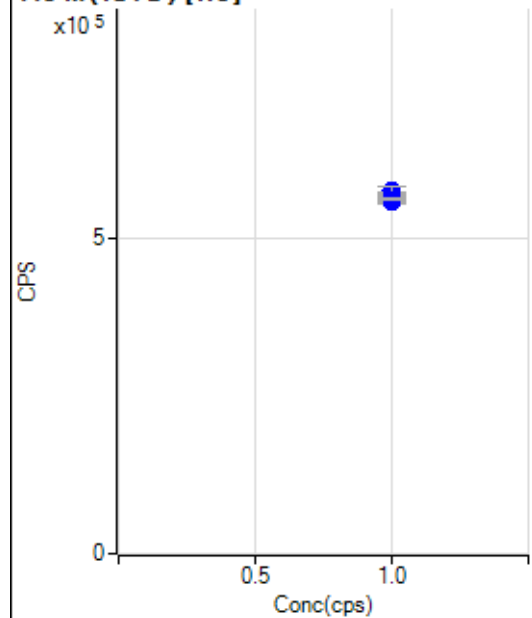
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3483182.37		A	1.1
2	☐	1.000		3416577.85		A	1.4
3	☐	1.000		3467532.11		A	2.0
4	☐	1.000		3467768.91		A	1.1
5	☐	1.000		3420680.37		A	2.2
6	☐	1.000		3430631.11		A	1.2
7	☐	1.000		3389027.42		A	0.9
8	☐	1.000		3319058.28		A	2.0

103 Rh (ISTD) [He]

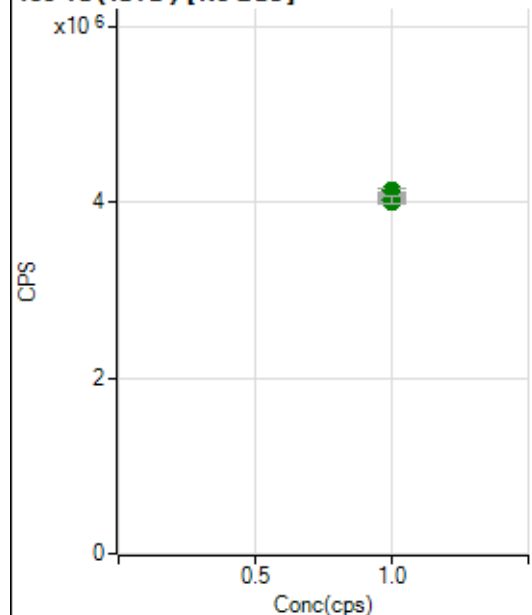
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1653955.55		A	1.4
2	☐	1.000		1660886.90		A	2.1
3	☐	1.000		1673334.51		A	1.0
4	☐	1.000		1667090.08		A	1.8
5	☐	1.000		1630287.79		A	1.0
6	☐	1.000		1600111.22		A	0.9
7	☐	1.000		1633060.34		A	0.5
8	☐	1.000		1596615.67		A	0.8

115 In (ISTD) [No Gas]

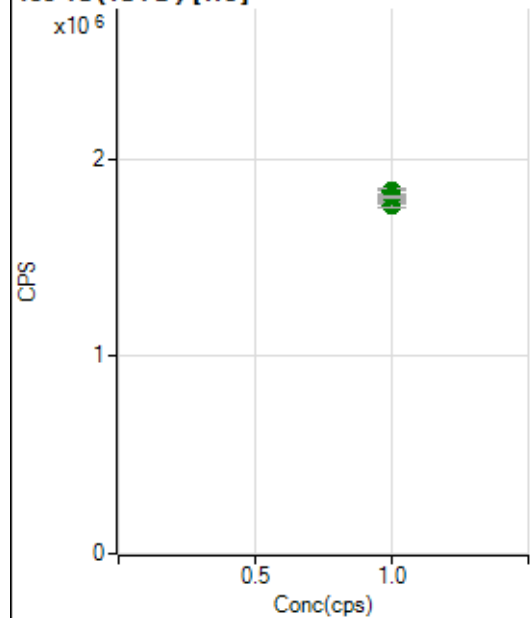
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3597473.75		A	0.6
2	☐	1.000		3581854.73		A	0.3
3	☐	1.000		3556940.23		A	2.8
4	☐	1.000		3630019.64		A	1.1
5	☐	1.000		3564672.01		A	2.6
6	☐	1.000		3545587.31		A	1.0
7	☐	1.000		3542201.62		A	0.7
8	☐	1.000		3545427.28		A	1.0

115 In (ISTD) [He]

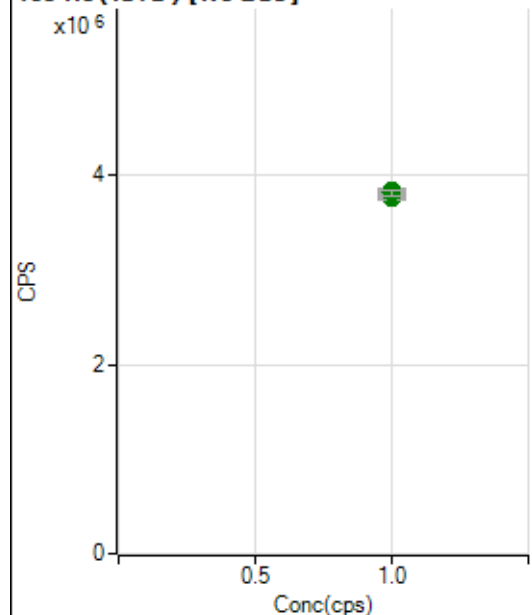
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		567033.23		P	0.5
2	☐	1.000		566496.25		P	0.3
3	☐	1.000		574499.77		P	0.5
4	☐	1.000		576643.90		P	2.3
5	☐	1.000		557976.74		P	1.0
6	☐	1.000		560591.77		P	0.4
7	☐	1.000		561274.04		P	1.7
8	☐	1.000		563064.35		P	0.6

159 Tb (ISTD) [No Gas]

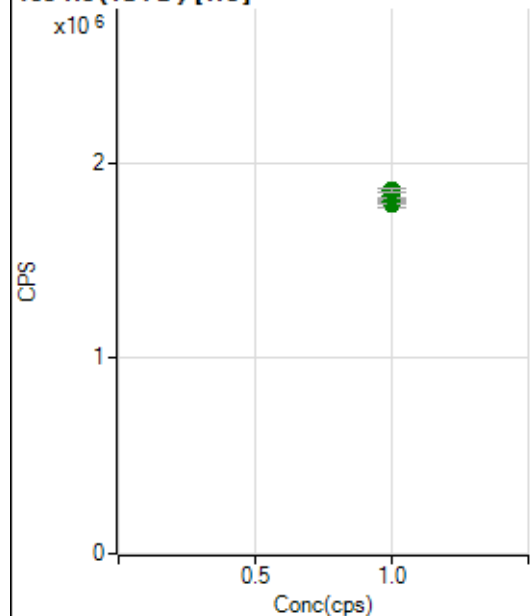
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4011748.41		A	1.0
2	☐	1.000		4014612.34		A	1.3
3	☐	1.000		4023309.77		A	1.2
4	☐	1.000		4129938.58		A	1.2
5	☐	1.000		4054936.36		A	1.8
6	☐	1.000		4058692.33		A	0.8
7	☐	1.000		4090571.19		A	0.4
8	☐	1.000		4022576.15		A	1.9

159 Tb (ISTD) [He]

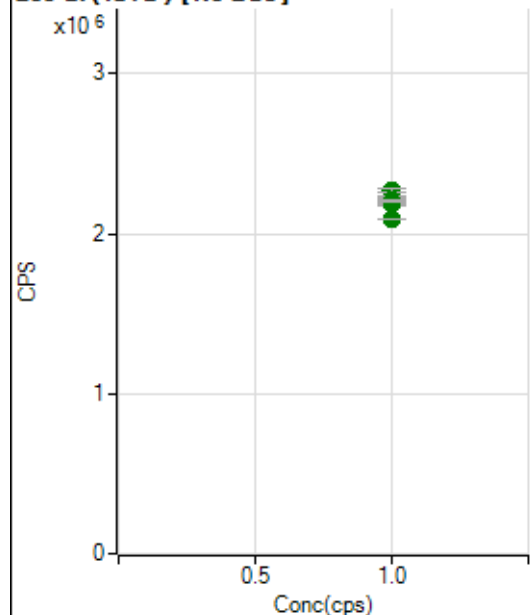
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1807834.42		A	1.1
2	☐	1.000		1788006.64		A	1.1
3	☐	1.000		1817426.55		A	0.8
4	☐	1.000		1830959.61		A	1.7
5	☐	1.000		1769105.62		A	1.1
6	☐	1.000		1809826.29		A	1.9
7	☐	1.000		1839044.66		A	1.4
8	☐	1.000		1811651.57		A	0.5

165 Ho (ISTD) [No Gas]

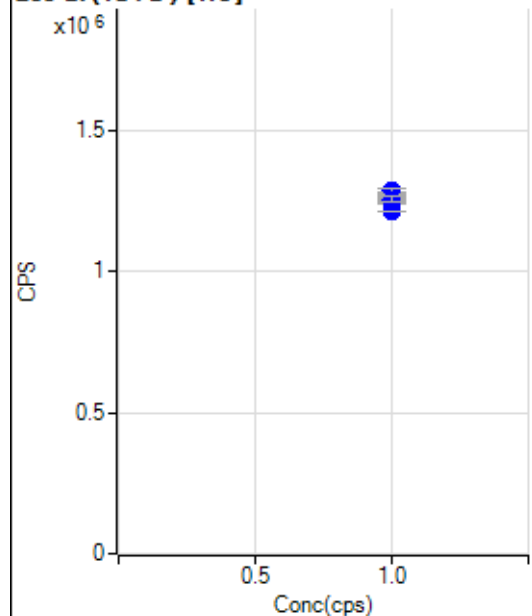
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3817367.06		A	1.2
2	☐	1.000		3750516.14		A	0.2
3	☐	1.000		3786096.70		A	1.8
4	☐	1.000		3834222.83		A	1.6
5	☐	1.000		3779362.63		A	1.6
6	☐	1.000		3812770.48		A	0.7
7	☐	1.000		3819346.92		A	0.4
8	☐	1.000		3811619.96		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1816744.05		A	0.4
2	☐	1.000		1801963.98		A	0.5
3	☐	1.000		1825683.95		A	2.5
4	☐	1.000		1843469.50		A	3.0
5	☐	1.000		1787497.16		A	2.1
6	☐	1.000		1801962.53		A	1.3
7	☐	1.000		1831270.65		A	1.7
8	☐	1.000		1854381.36		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2201095.18		A	1.1
2	☐	1.000		2185766.22		A	0.7
3	☐	1.000		2201780.02		A	1.4
4	☐	1.000		2267066.56		A	1.0
5	☐	1.000		2213832.40		A	1.5
6	☐	1.000		2204180.21		A	0.6
7	☐	1.000		2202888.79		A	0.6
8	☐	1.000		2090228.20		A	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1258930.61		P	0.6
2	☐	1.000		1264141.77		P	1.4
3	☐	1.000		1280438.11		P	0.7
4	☐	1.000		1286675.71		P	1.5
5	☐	1.000		1247657.89		P	0.7
6	☐	1.000		1257118.64		P	0.7
7	☐	1.000		1256114.52		P	1.6
8	☐	1.000		1214460.21		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8110920IMS.b
Acq. Date-Time 2020-11-09 14:03:59
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		1380	13797.25			1.992	5.000
24		18406	184059.87			1.268	5.000
25		2478	24783.43			1.732	5.000
26		2818	28184.47			1.764	5.000
59		10902	109021.00			1.746	5.000
113		1841	18408.72			2.306	5.000
115		6230	62296.88			1.058	5.000
206		2060	20601.02			2.660	5.000
207		1720	17200.84			2.317	5.000
208		4238	42379.67			2.294	5.000
220		1	7.30			46.857	

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

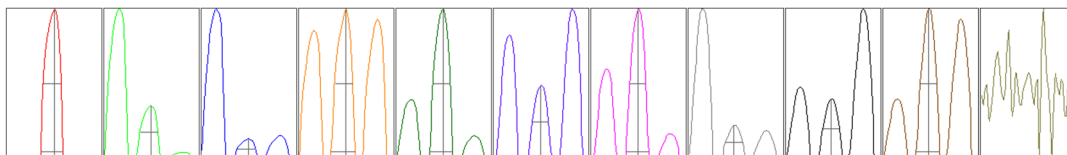
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1374	1364	1351	1386	1423
24	18220	18263	18280	18486	18781
25	2446	2455	2445	2505	2541
26	2770	2769	2818	2853	2881
59	10844	10711	10754	11056	11146
113	1818	1799	1816	1896	1876
115	6337	6194	6174	6249	6194
206	2031	1988	2057	2098	2127
207	1686	1684	1706	1751	1773
208	4222	4116	4180	4346	4326

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	2611.77	9.05	8.90 - 9.10	
24	34145.83	24.00	23.90 - 24.10	
25	4571.56	25.00	24.90 - 25.10	
26	5336.35	26.00	25.90 - 26.10	
59	21173.05	59.00	58.90 - 59.10	
113	3812.54	113.00	112.90 - 113.10	
115	12904.42	115.00	114.90 - 115.10	
206	4068.58	205.95	205.90 - 206.10	
207	3393.09	206.95	206.90 - 207.10	
208	8501.40	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.691	0.900	
24	0.57	0.750	0.900	
25	0.58	0.737	0.900	
26	0.56	0.770	0.900	
59	0.55	0.725	0.900	
113	0.50	0.717	0.900	
115	0.50	0.718	0.900	
206	0.53	0.732	0.900	
207	0.52	0.738	0.900	
208	0.52	0.757	0.900	
220				

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	11.3 V	Deflect	14.0 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2668	26682.95			0.821	
89		6174	61741.76			0.990	
205		5354	53542.11			0.808	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2672	2681	2672	2631	2686
89	6165	6201	6236	6075	6194
205	5315	5416	5364	5311	5365

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	11.3 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V