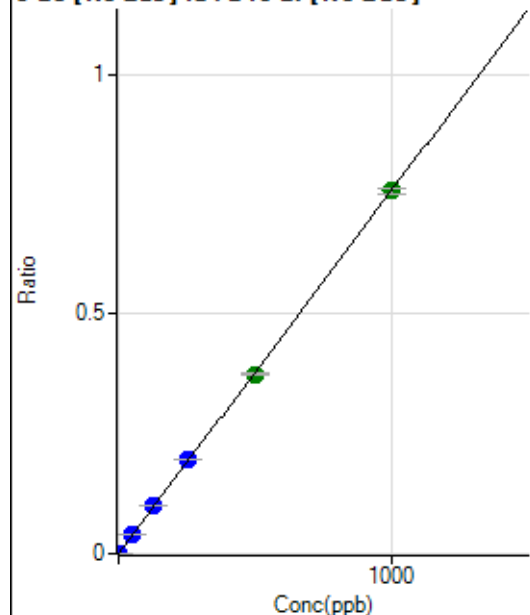


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7031522MS1.b\
Analysis File: P7031522MS1.batch.bin
DA Date-Time: 2022-03-15 23:04:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-03-15 15:37:18
2	005CALS.d	S02	2022-03-15 15:43:06
3	007CALS.d	S03	2022-03-15 15:48:54
4	008CALS.d	S04	2022-03-15 15:51:41
5	009CALS.d	S05	2022-03-15 15:54:25
6	010CALS.d	S06	2022-03-15 15:57:12
7	011CALS.d	S07	2022-03-15 15:59:57
8	012CALS.d	S08	2022-03-15 16:02:44

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	48.89	0.0000	P	20.9
2	☐	1.000	1.060	3281.49	0.0008	P	0.6
3	☐	50.000	50.870	156175.01	0.0385	P	1.8
4	☐	125.000	133.541	392041.90	0.1011	P	2.1
5	☐	250.000	258.627	768657.90	0.1959	P	0.6
6	☐	500.000	494.823	1488342.95	0.3747	A	0.3
7	☐	1000.000	999.321	2954114.99	0.7567	A	1.6
8	☐			392.23	0.0001	P	9.1

$$y = 7.5725\text{E-}004 * x + 1.2306\text{E-}005$$

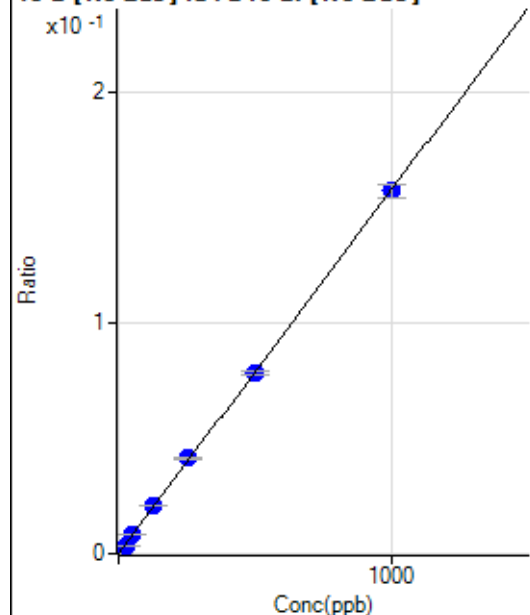
$$R = 0.9999$$

$$DL = 0.01019$$

$$BEC = 0.01625$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	238.90	0.0001	P	18.6
2	☐	25.000	19.478	12597.06	0.0031	P	3.6
3	☐	50.000	51.324	33021.76	0.0081	P	3.5
4	☐	125.000	131.726	80704.53	0.0208	P	3.2
5	☐	250.000	262.489	162535.73	0.0414	P	2.4
6	☐	500.000	498.588	312197.66	0.0786	P	2.1
7	☐	1000.000	996.815	613170.32	0.1571	P	4.0
8	☐			15138.40	0.0041	P	14.6

$$y = 1.5752\text{E-}004 * x + 6.0193\text{E-}005$$

$$R = 0.9999$$

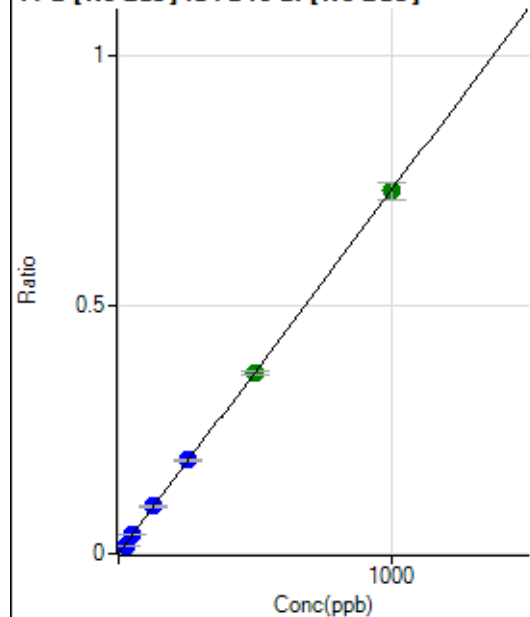
$$DL = 0.2135$$

$$BEC = 0.3821$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1066.73	0.0003	P	11.6
2	☐	25.000	19.038	57094.72	0.0142	P	4.0
3	☐	50.000	51.365	153250.49	0.0378	P	3.2
4	☐	125.000	130.040	369489.29	0.0953	P	1.8
5	☐	250.000	257.414	739291.14	0.1884	P	1.0
6	☐	500.000	499.039	1449488.03	0.3649	A	2.3
7	☐	1000.000	998.078	2847957.70	0.7296	A	4.5
8	☐			70699.24	0.0192	P	14.1

$$y = 7.3069E-004 * x + 2.6862E-004$$

$$R = 0.9999$$

$$DL = 0.1276$$

$$BEC = 0.3676$$

Weight: <None>

Min Conc: 0

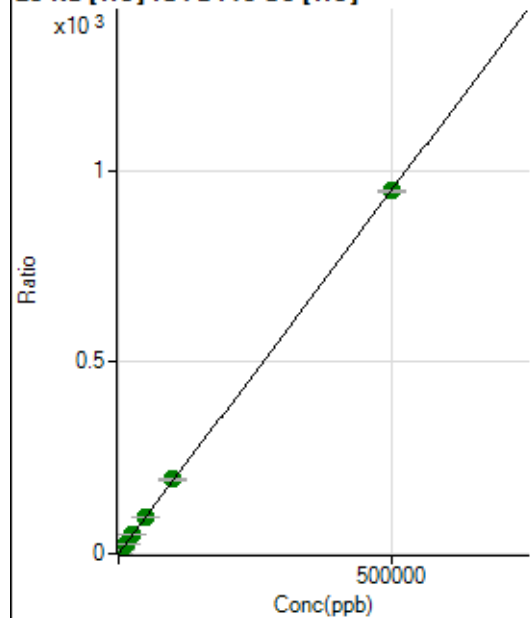
12 C [No Gas] No available calibration points



	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	18416.81	0.0378	P	4.2
2	☐	500.000	478.022	469719.03	0.9447	P	0.8
3	☐	5000.000	5026.828	4747391.94	9.5745	A	1.0
4	☐	12500.000	12440.473	11828024.57	23.6393	A	1.1
5	☐	25000.000	25502.061	23509220.90	48.4191	A	0.6
6	☐	50000.000	49942.203	45773338.52	94.7858	A	1.6
7	☐	100000.00	102494.62	92190369.65	194.4859	A	3.1
8	☐	500000.00	499482.99	476438851.39	947.6339	A	0.6

$$y = 0.0019 * x + 0.0378$$

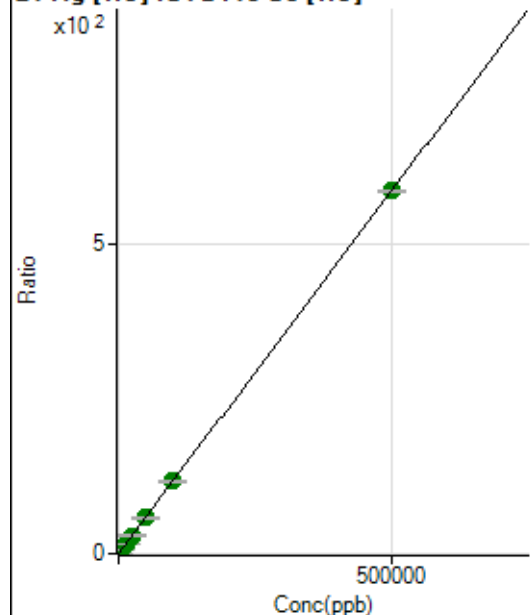
$$R = 1.0000$$

$$DL = 2.533$$

$$BEC = 19.92$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	270.38	0.0006	P	9.7
2	☐	500.000	480.033	280122.71	0.5633	P	0.4
3	☐	5000.000	4977.265	2894025.53	5.8359	A	0.4
4	☐	12500.000	12434.497	7294457.05	14.5787	A	1.2
5	☐	25000.000	25153.829	14318743.03	29.4908	A	1.0
6	☐	50000.000	49215.632	27863239.05	57.7008	A	2.1
7	☐	100000.00	99857.258	55503061.89	117.0728	A	2.0
8	☐	500000.00	500101.17	294779973.25	586.3174	A	0.3

$$y = 0.0012 * x + 5.5405E-004$$

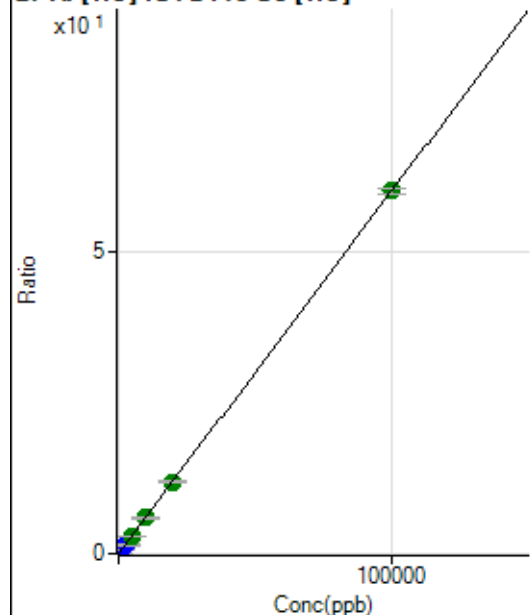
$$R = 1.0000$$

$$DL = 0.1372$$

$$BEC = 0.4726$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	161.11	0.0003	P	19.4
2	☐	20.000	18.748	5760.43	0.0116	P	1.9
3	☐	1000.000	964.757	287389.52	0.5795	P	0.8
4	☐	2500.000	2398.306	720566.81	1.4402	P	1.3
5	☐	5000.000	5005.226	1459200.13	3.0053	A	1.2
6	☐	10000.000	9820.022	2847152.43	5.8958	A	2.0
7	☐	20000.000	19753.278	5621946.01	11.8593	A	2.3
8	☐	100000.00	100069.97	30204899.05	60.0780	A	1.3

$$y = 6.0036E-004 * x + 3.3053E-004$$

$$R = 1.0000$$

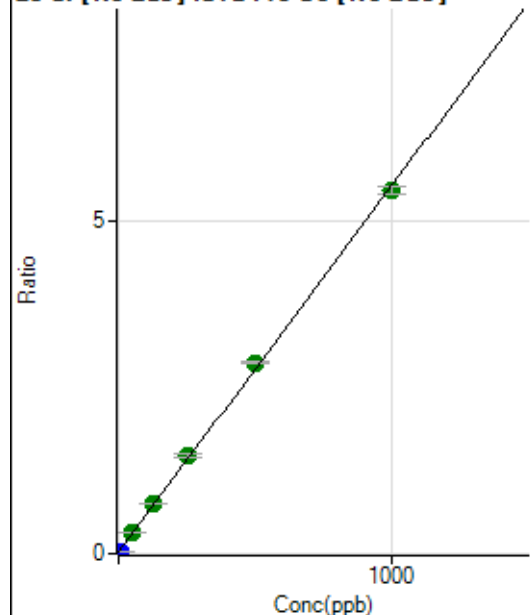
$$DL = 0.3206$$

$$BEC = 0.5506$$

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	147913.95	0.0248	P	0.8
2	☐	10.000	2.362	230061.13	0.0378	P	1.3
3	☐	50.000	55.632	2052608.57	0.3314	A	0.7
4	☐	125.000	132.465	4449621.37	0.7548	A	2.0
5	☐	250.000	263.180	8882992.30	1.4751	A	2.6
6	☐	500.000	517.911	17721898.14	2.8787	A	0.6
7	☐	1000.000	986.611	33091110.46	5.4615	A	2.2
8	☐			752706.93	0.1278	P	5.4

$$y = 0.0055 * x + 0.0248$$

$$R = 0.9996$$

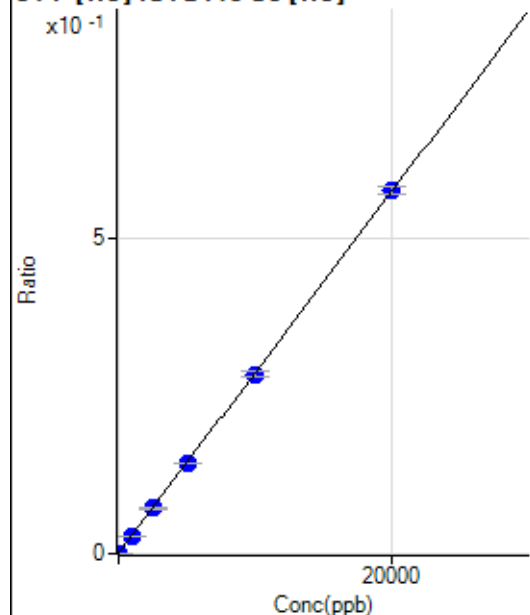
$$DL = 0.1103$$

$$BEC = 4.504$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-6.642	275.01	0.0006	P	11.3
2	☐	0.000	6.642	469.46	0.0009	P	3.4
3	☐	1000.000	974.747	14226.41	0.0287	P	0.6
4	☐	2500.000	2478.002	35909.52	0.0718	P	1.9
5	☐	5000.000	4987.415	69770.56	0.1437	P	0.6
6	☐	10000.000	9920.031	137651.69	0.2851	P	2.4
7	☐	20000.000	20047.143	272736.37	0.5753	P	2.0
8	☐			380.57	0.0008	P	18.1

$$y = 2.8661E-005 * x + 7.5372E-004$$

$$R = 1.0000$$

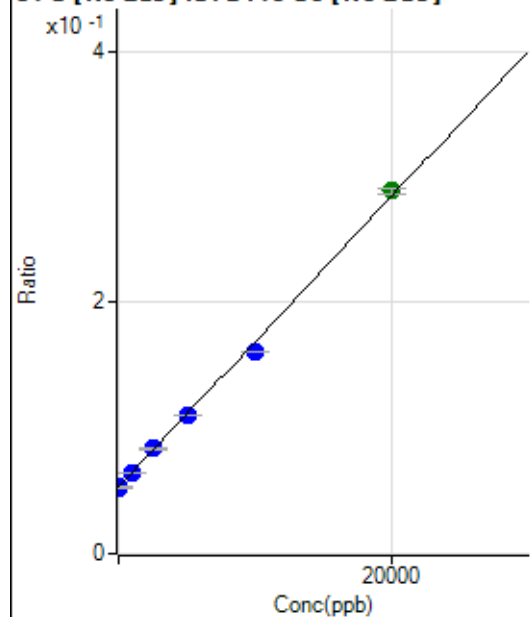
$$DL = 4.996$$

$$BEC = 26.3$$

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	41.328	320229.08	0.0537	P	0.8
2	☐	0.000	-41.328	320872.47	0.0528	P	2.3
3	☐	1000.000	937.454	397066.87	0.0641	P	1.4
4	☐	2500.000	2663.781	495742.61	0.0841	P	1.8
5	☐	5000.000	4925.992	664121.04	0.1103	P	0.6
6	☐	10000.000	9276.084	988864.82	0.1606	P	0.4
7	☐	20000.000	20363.114	1751188.80	0.2890	A	1.4
8	☐			302616.25	0.0514	P	1.7

$$y = 1.1576E-005 * x + 0.0533$$

R = 0.9990

DL = 209.3

BEC = 4600

Weight: <None>

Min Conc: 0

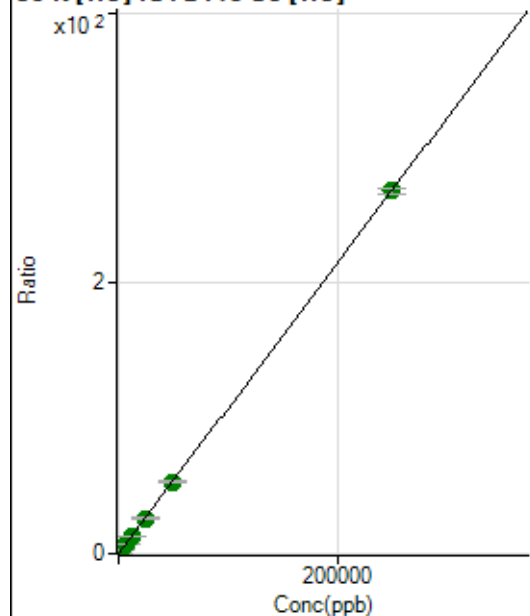
35 Cl [No Gas] No available calibration points



	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	24058.46	0.0493	P	2.2
2	☐	500.000	486.435	283744.44	0.5707	P	1.3
3	☐	2500.000	2450.442	1326765.71	2.6756	A	0.4
4	☐	6250.000	6126.482	3310009.80	6.6155	A	1.0
5	☐	12500.000	12349.923	6450518.11	13.2855	A	1.3
6	☐	25000.000	24414.563	12659972.16	26.2159	A	1.6
7	☐	50000.000	49538.948	25194370.18	53.1432	A	2.0
8	☐	250000.00	250161.86	134822908.57	268.1629	A	1.3

$$y = 0.0011 * x + 0.0493$$

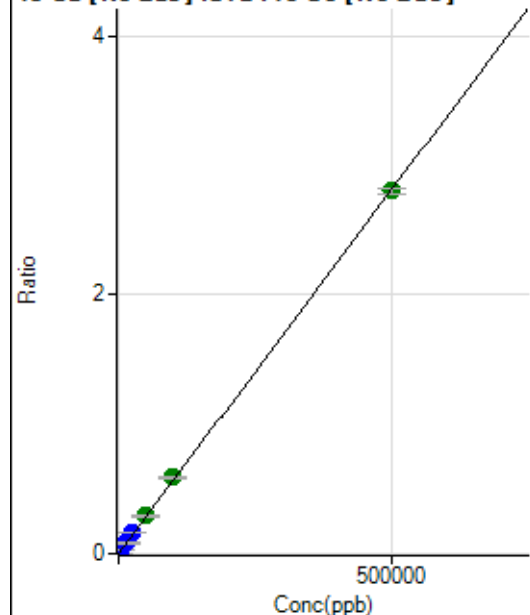
$$R = 1.0000$$

$$DL = 2.992$$

$$BEC = 46.04$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	213.90	0.0000	P	13.9
2	☐	500.000	520.503	18005.64	0.0030	P	2.8
3	☐	5000.000	5508.904	191967.33	0.0310	P	0.8
4	☐	12500.000	14718.676	487742.71	0.0827	P	2.8
5	☐	25000.000	28425.264	962172.54	0.1598	P	0.6
6	☐	50000.000	51598.223	1785125.56	0.2900	A	0.6
7	☐	100000.00	104878.68	3571275.47	0.5894	A	1.6
8	☐	500000.00	498632.60	16495739.08	2.8019	A	1.7

$$y = 5.6192\text{E-}006 * x + 3.5861\text{E-}005$$

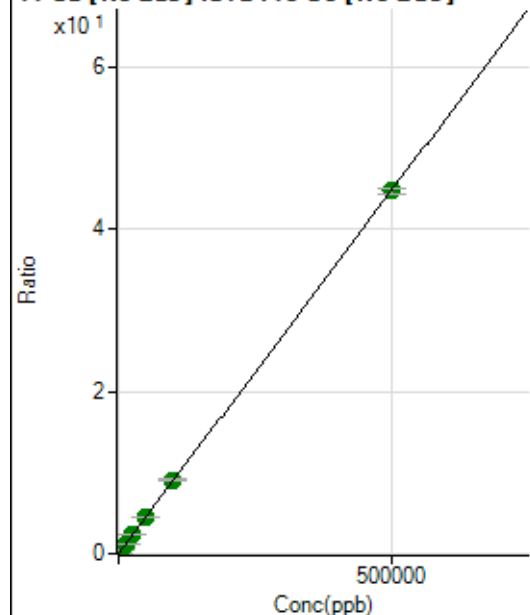
$$R = 0.9999$$

$$DL = 2.66$$

$$BEC = 6.382$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8035.89	0.0013	P	2.9
2	☐	500.000	516.950	289401.50	0.0476	P	1.9
3	☐	5000.000	5137.270	2855072.79	0.4609	A	0.5
4	☐	12500.000	13553.530	7155291.05	1.2138	A	2.9
5	☐	25000.000	26224.394	14137089.03	2.3474	A	0.4
6	☐	50000.000	49575.110	27310728.56	4.4363	A	0.8
7	☐	100000.00	101798.62	55192297.07	9.1082	A	1.8
8	☐	500000.00	499593.81	263131508.66	44.6948	A	1.8

$$y = 8.9460\text{E-}005 * x + 0.0013$$

$$R = 1.0000$$

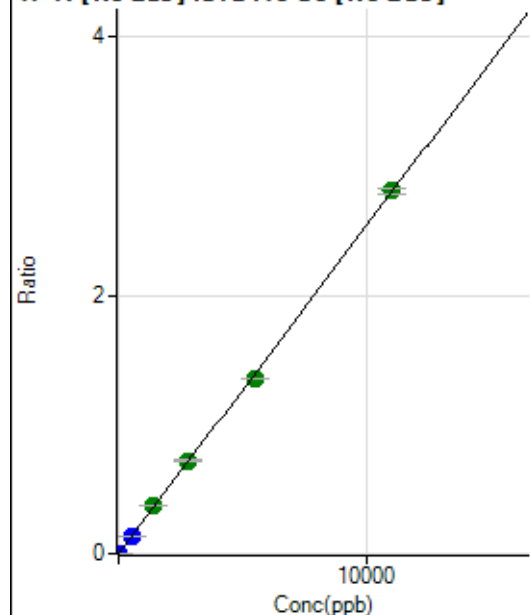
$$DL = 1.324$$

$$BEC = 15.07$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	122.23	0.0000	P	9.6
2	☐	5.000	5.006	7860.60	0.0013	P	4.7
3	☐	550.000	547.007	861611.76	0.1391	P	1.1
4	☐	1375.000	1465.085	2195775.68	0.3725	A	3.6
5	☐	2750.000	2822.123	4321426.53	0.7176	A	1.6
6	☐	5500.000	5340.106	8358660.78	1.3578	A	0.4
7	☐	11000.000	11050.805	17025127.46	2.8098	A	1.9
8	☐			3800.57	0.0006	P	5.9

$$y = 2.5426E-004 * x + 2.0497E-005$$

$$R = 0.9998$$

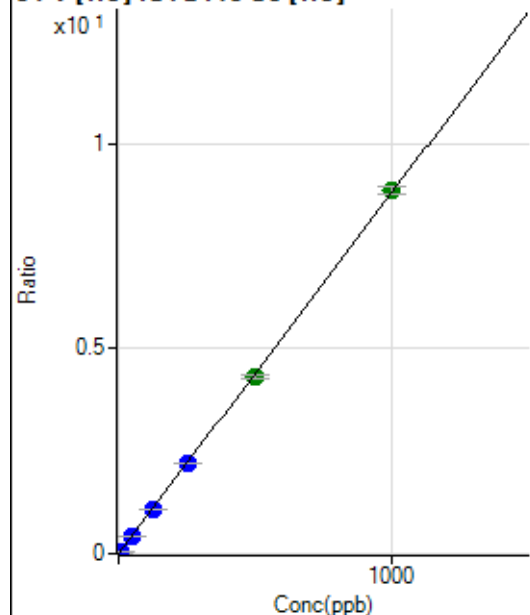
$$DL = 0.02324$$

$$BEC = 0.08061$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7.78	0.0000	P	22.7
2	☐	5.000	4.674	20449.51	0.0411	P	1.7
3	☐	50.000	48.870	213150.90	0.4299	P	1.0
4	☐	125.000	121.542	534899.87	1.0691	P	1.8
5	☐	250.000	248.810	1062649.40	2.1886	P	0.2
6	☐	500.000	490.987	2085663.34	4.3188	A	1.4
7	☐	1000.000	1005.294	4192059.28	8.8427	A	2.0
8	☐			702.25	0.0014	P	4.2

$$y = 0.0088 * x + 1.5914E-005$$

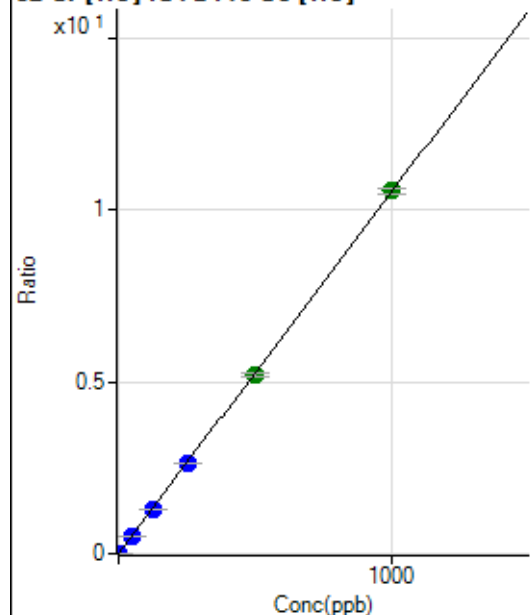
$$R = 0.9999$$

$$DL = 0.001231$$

$$BEC = 0.001809$$

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	2125.73	0.0044	P	4.6
2	☐	2.000	1.907	12124.94	0.0244	P	1.7
3	☐	50.000	49.628	260581.25	0.5256	P	1.4
4	☐	125.000	123.327	650245.40	1.2996	P	0.8
5	☐	250.000	250.602	1279985.41	2.6362	P	0.3
6	☐	500.000	493.511	2504987.79	5.1873	A	1.6
7	☐	1000.000	1003.322	4997498.43	10.5414	A	1.6
8	☐			20188.02	0.0402	P	1.3

$$y = 0.0105 * x + 0.0044$$

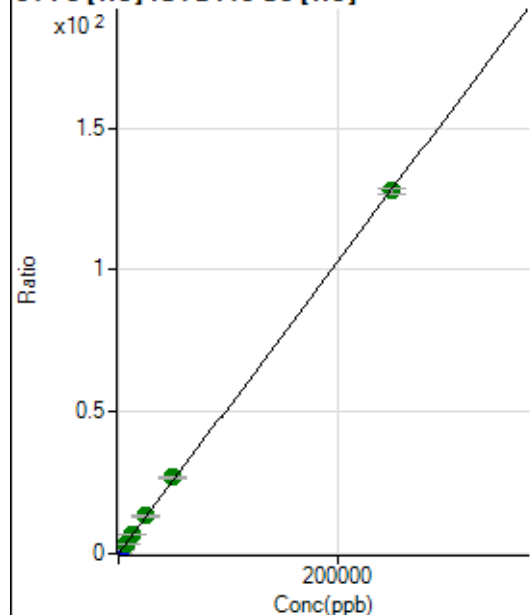
$$R = 1.0000$$

$$DL = 0.05765$$

$$BEC = 0.4154$$

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	2285.87	0.0047	P	0.9
2	☐	50.000	54.870	16322.30	0.0328	P	4.3
3	☐	2500.000	2696.443	687863.97	1.3873	P	1.0
4	☐	6250.000	6547.551	1682090.18	3.3619	A	1.1
5	☐	12500.000	13346.321	3324926.16	6.8479	A	0.1
6	☐	25000.000	25948.876	6427296.86	13.3097	A	1.8
7	☐	50000.000	52613.683	12791289.90	26.9819	A	2.1
8	☐	250000.00	249330.65	64275822.31	127.8467	A	1.3

$$y = 5.1274E-004 * x + 0.0047$$

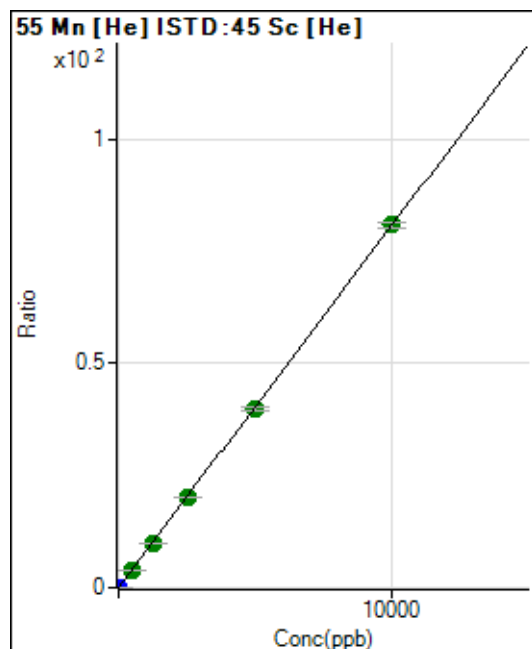
$$R = 0.9999$$

$$DL = 0.2391$$

$$BEC = 9.146$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1001.15	0.0021	P	7.2
2	☐	1.000	1.297	6229.23	0.0125	P	27.7
3	☐	500.000	497.956	1994396.97	4.0222	A	0.9
4	☐	1250.000	1239.609	5008222.98	10.0099	A	1.4
5	☐	2500.000	2501.373	9806288.95	20.1965	A	0.3
6	☐	5000.000	4949.401	19296604.71	39.9603	A	1.9
7	☐	10000.000	10026.357	38376171.10	80.9484	A	1.8
8	☐			23651.99	0.0470	P	1.4

$$y = 0.0081 * x + 0.0021$$

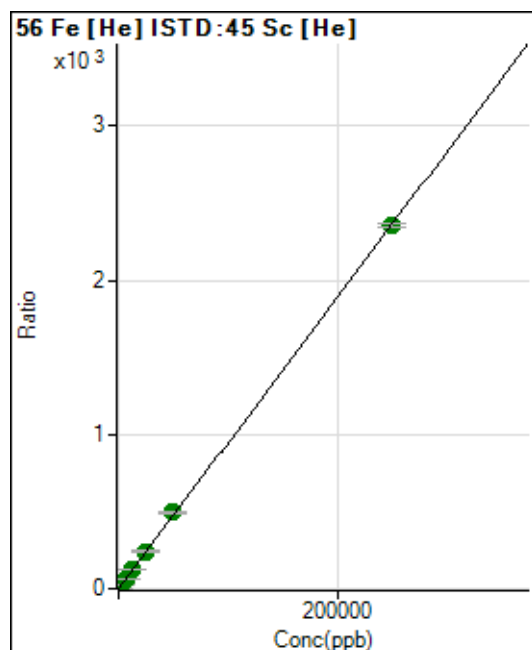
$$R = 1.0000$$

$$DL = 0.05455$$

$$BEC = 0.2543$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25939.27	0.0532	P	1.2
2	☐	50.000	52.138	270882.20	0.5448	P	6.0
3	☐	2500.000	2602.475	12193530.13	24.5930	A	1.4
4	☐	6250.000	6425.474	30341747.90	60.6416	A	1.0
5	☐	12500.000	13115.693	60073625.88	123.7263	A	0.6
6	☐	25000.000	25729.684	117190613.73	242.6686	A	1.3
7	☐	50000.000	52269.949	233676631.15	492.9273	A	2.1
8	☐	250000.00	249436.84	1182531122.7	2.352092	A	1.2

$$y = 0.0094 * x + 0.0532$$

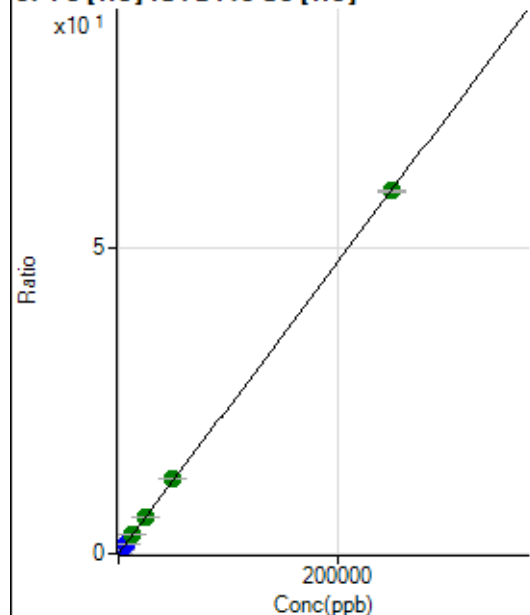
$$R = 1.0000$$

$$DL = 0.1972$$

$$BEC = 5.644$$

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	718.55	0.0015	P	6.9
2	☐	50.000	52.430	6922.08	0.0139	P	5.1
3	☐	2500.000	2621.229	309395.10	0.6240	P	1.5
4	☐	6250.000	6510.032	774336.79	1.5476	P	0.8
5	☐	12500.000	13166.542	1518976.79	3.1284	A	0.2
6	☐	25000.000	25627.325	2940018.35	6.0878	A	1.0
7	☐	50000.000	51571.676	5807352.44	12.2494	A	1.5
8	☐	250000.00	249581.89	29801443.95	59.2755	A	0.2

$$y = 2.3749\text{E-}004 * x + 0.0015$$

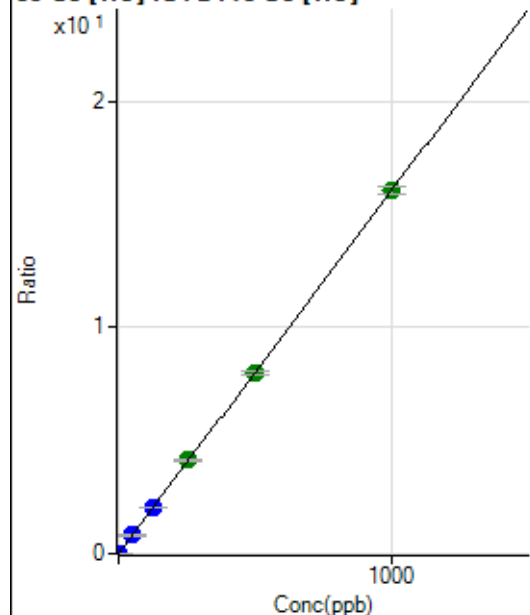
$$R = 1.0000$$

$$DL = 1.282$$

$$BEC = 6.202$$

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	291.12	0.0006	P	14.0
2	☐	1.000	0.987	8176.74	0.0164	P	2.8
3	☐	50.000	50.366	401146.57	0.8091	P	1.8
4	☐	125.000	125.262	1006385.01	2.0114	P	0.9
5	☐	250.000	257.174	2004683.35	4.1289	A	1.2
6	☐	500.000	496.841	3851521.26	7.9761	A	2.2
7	☐	1000.000	999.735	7608129.75	16.0487	A	2.0
8	☐			20702.14	0.0412	P	1.0

$$y = 0.0161 * x + 5.9820\text{E-}004$$

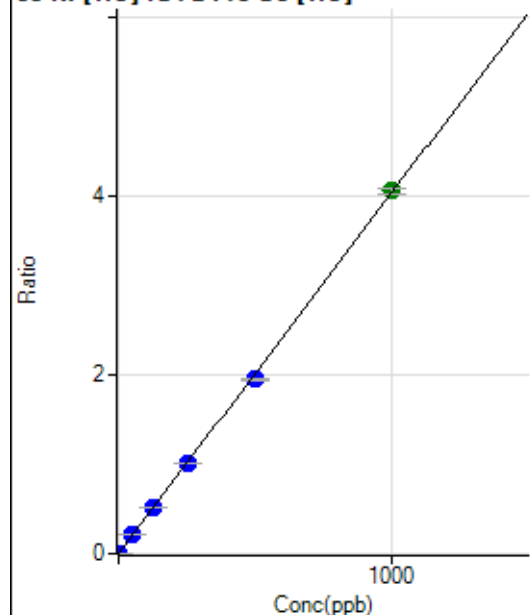
$$R = 1.0000$$

$$DL = 0.0156$$

$$BEC = 0.03727$$

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	363.34	0.0007	P	13.9
2	☐	1.000	1.060	2498.01	0.0050	P	8.8
3	☐	50.000	50.981	102396.34	0.2065	P	1.5
4	☐	125.000	126.537	255924.48	0.5115	P	1.2
5	☐	250.000	252.335	494885.05	1.0193	P	0.7
6	☐	500.000	485.317	946383.28	1.9597	P	1.1
7	☐	1000.000	1006.517	1926463.36	4.0634	A	1.4
8	☐			9321.85	0.0185	P	2.6

$$y = 0.0040 * x + 7.4557E-004$$

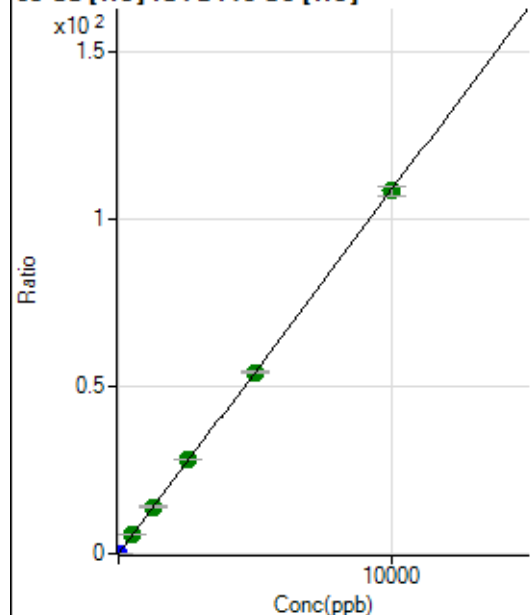
$$R = 0.9998$$

$$DL = 0.07689$$

$$BEC = 0.1847$$

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	983.38	0.0020	P	5.5
2	☐	2.000	2.056	12104.98	0.0243	P	2.0
3	☐	500.000	524.790	2826492.21	5.7002	A	0.5
4	☐	1250.000	1293.447	7027767.05	14.0462	A	1.6
5	☐	2500.000	2573.228	13567017.44	27.9420	A	0.4
6	☐	5000.000	4994.776	26190792.67	54.2350	A	1.5
7	☐	10000.000	9977.635	51357542.57	108.3387	A	2.4
8	☐			23932.54	0.0476	P	1.6

$$y = 0.0109 * x + 0.0020$$

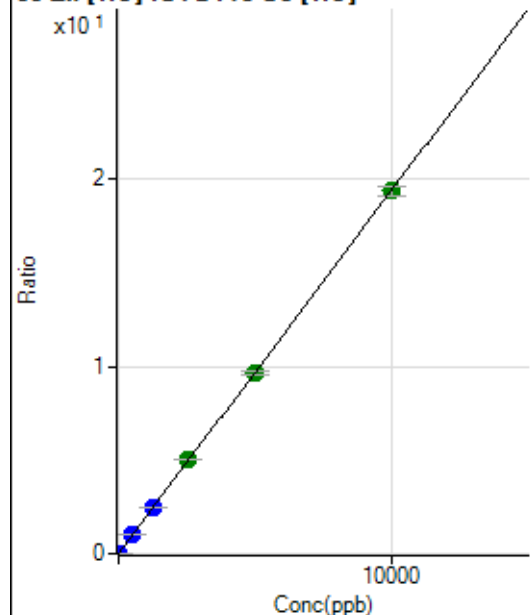
$$R = 1.0000$$

$$DL = 0.03046$$

$$BEC = 0.1859$$

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	590.02	0.0012	P	7.2
2	☐	2.000	2.242	2766.95	0.0056	P	0.2
3	☐	500.000	507.214	488940.97	0.9861	P	1.0
4	☐	1250.000	1263.868	1228451.65	2.4553	P	1.6
5	☐	2500.000	2580.806	2433752.34	5.0125	A	0.3
6	☐	5000.000	4977.521	4667754.79	9.6663	A	2.0
7	☐	10000.000	9988.944	9195170.83	19.3972	A	2.4
8	☐			13755.34	0.0274	P	2.0

$$y = 0.0019 * x + 0.0012$$

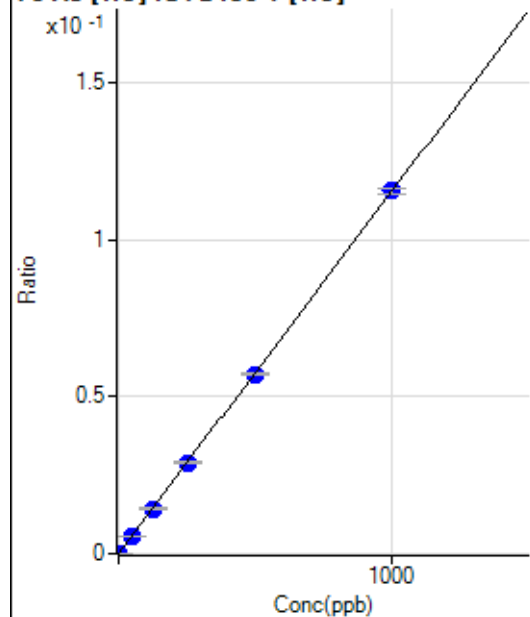
$$R = 1.0000$$

$$DL = 0.1343$$

$$BEC = 0.6236$$

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	19.75	0.0000	P	38.4
2	☐	1.000	1.010	601.25	0.0001	P	6.7
3	☐	50.000	49.281	28473.49	0.0057	P	1.1
4	☐	125.000	124.518	71169.03	0.0144	P	0.8
5	☐	250.000	250.712	140642.33	0.0289	P	1.4
6	☐	500.000	495.203	274443.77	0.0571	P	1.0
7	☐	1000.000	1002.317	548163.59	0.1156	P	1.4
8	☐			240.75	0.0000	P	9.7

$$y = 1.1529E-004 * x + 3.9986E-006$$

$$R = 1.0000$$

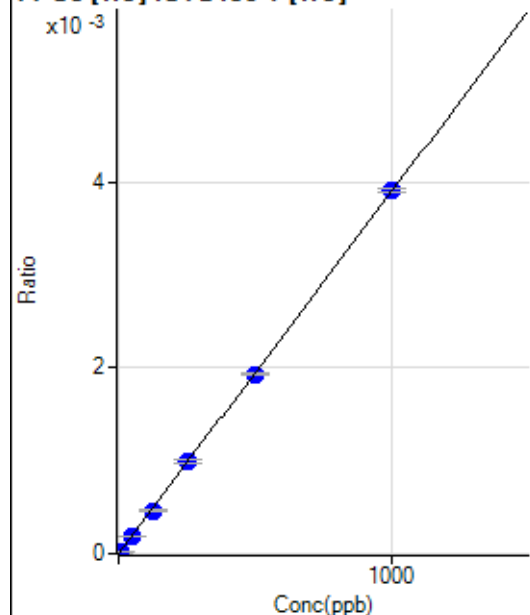
$$DL = 0.04$$

$$BEC = 0.03468$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	3.709	73.33	0.0000	P	24.2
3	☐	50.000	48.763	953.38	0.0002	P	2.8
4	☐	125.000	117.612	2273.52	0.0005	P	3.5
5	☐	250.000	254.948	4838.61	0.0010	P	2.2
6	☐	500.000	494.970	9278.53	0.0019	P	1.3
7	☐	1000.000	1002.270	18539.49	0.0039	P	0.9
8	☐			2.22	0.0000	P	86.6

$$y = 3.8991\text{E-}006 * x + 2.2498\text{E-}007$$

$$R = 0.9999$$

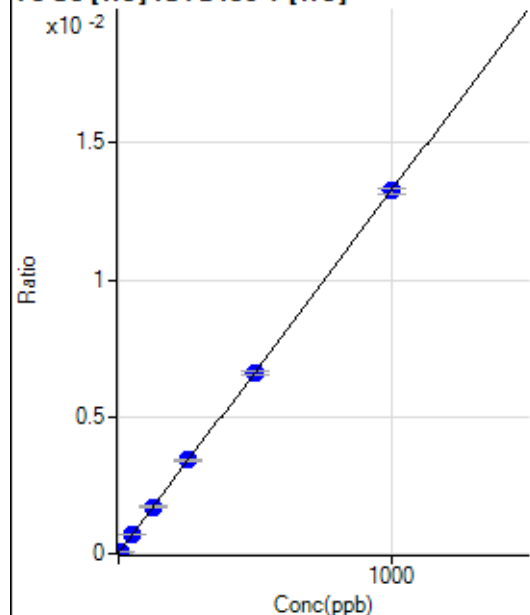
$$DL = 0.2998$$

$$BEC = 0.0577$$

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	103.09	0.0000	P	6.1
2	☐	5.000	4.905	429.02	0.0001	P	1.1
3	☐	50.000	50.566	3459.68	0.0007	P	3.5
4	☐	125.000	127.264	8460.46	0.0017	P	2.5
5	☐	250.000	255.618	16578.41	0.0034	P	0.7
6	☐	500.000	498.822	31863.71	0.0066	P	2.0
7	☐	1000.000	998.874	62873.10	0.0133	P	1.3
8	☐			112.96	0.0000	P	7.4

$$y = 1.3248\text{E-}005 * x + 2.0915\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.2897$$

$$BEC = 1.579$$

Weight: <None>

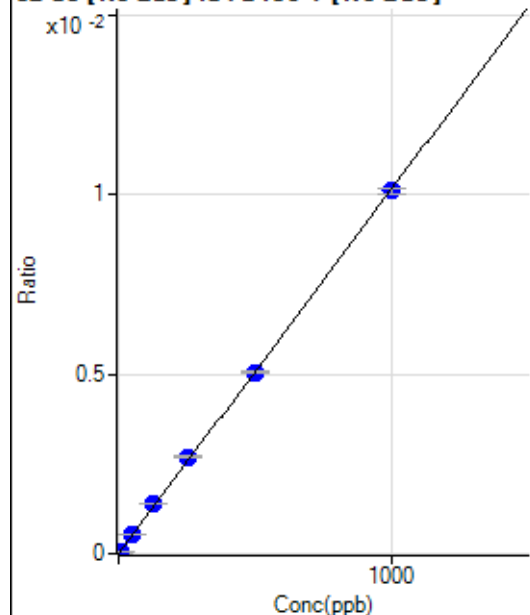
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4520.24		P	2.3
2	☐			4495.25		P	4.7
3	☐			4678.66		P	4.8
4	☐			4648.07		P	3.1
5	☐			4542.50		P	2.9
6	☐			4417.44		P	1.1
7	☐			4678.65		P	2.2
8	☐			4661.97		P	4.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.70		P	56.8
2	☐			50.05		P	34.6
3	☐			43.38		P	53.3
4	☐			20.02		P	NaN
5	☐			50.05		P	0.0
6	☐			36.70		P	31.5
7	☐			46.71		P	44.6
8	☐			56.72		P	53.9

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-83.90	0.0000	P	-90.
2	☐	5.000	4.954	933.29	0.0000	P	2.8
3	☐	50.000	51.373	10550.30	0.0005	P	1.2
4	☐	125.000	137.368	27231.09	0.0014	P	3.2
5	☐	250.000	266.378	53653.90	0.0027	P	1.7
6	☐	500.000	497.345	103875.89	0.0050	P	0.6
7	☐	1000.000	995.619	206758.16	0.0101	P	1.9
8	☐			28.55	0.0000	P	182.

$$y = 1.0157E-005 * x - 4.2445E-006$$

R = 0.9998

DL = 1.13

BEC = -0.4179

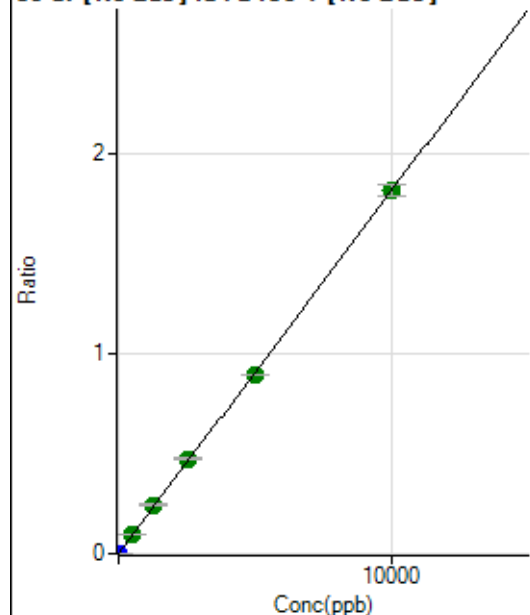
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2349.10		P	3.8
2	☐			2361.33		P	1.1
3	☐			2576.92		P	6.1
4	☐			2372.44		P	4.2
5	☐			2365.77		P	7.3
6	☐			2203.52		P	3.3
7	☐			2349.10		P	5.5
8	☐			2275.75		P	4.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3847.83	0.0002	P	4.7
2	☐	1.000	0.960	7449.27	0.0004	P	1.1
3	☐	500.000	516.751	1911805.69	0.0938	A	0.7
4	☐	1250.000	1341.545	4760682.01	0.2432	A	3.2
5	☐	2500.000	2610.523	9395651.51	0.4730	A	0.9
6	☐	5000.000	4928.853	18377015.34	0.8929	A	0.4
7	☐	10000.000	9995.662	37030831.73	1.8107	A	3.1
8	☐			30501.60	0.0016	P	1.5

$$y = 1.8112E-004 * x + 1.9398E-004$$

$$R = 0.9999$$

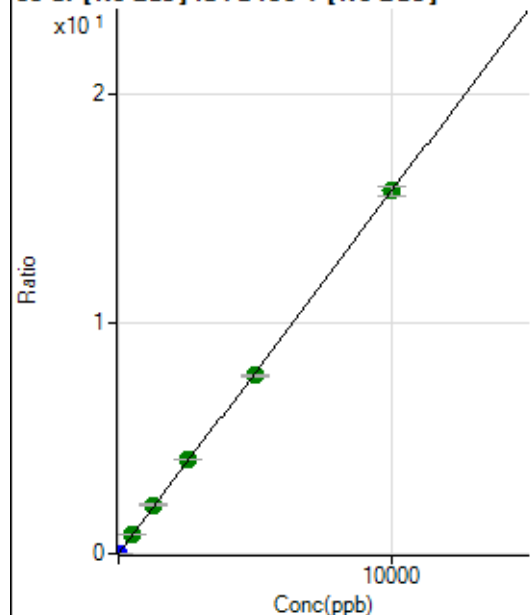
$$DL = 0.1509$$

$$BEC = 1.071$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	572.25	0.0000	P	4.3
2	☐	1.000	0.985	31971.53	0.0016	P	3.5
3	☐	500.000	508.938	16332749.50	0.8013	A	0.5
4	☐	1250.000	1334.807	41137426.61	2.1014	A	3.4
5	☐	2500.000	2608.127	81561614.32	4.1060	A	0.3
6	☐	5000.000	4907.535	159000578.55	7.7260	A	1.1
7	☐	10000.000	10008.153	322250437.76	15.7560	A	2.6
8	☐			235078.49	0.0125	P	2.1

$$y = 0.0016 * x + 2.8847E-005$$

$$R = 0.9998$$

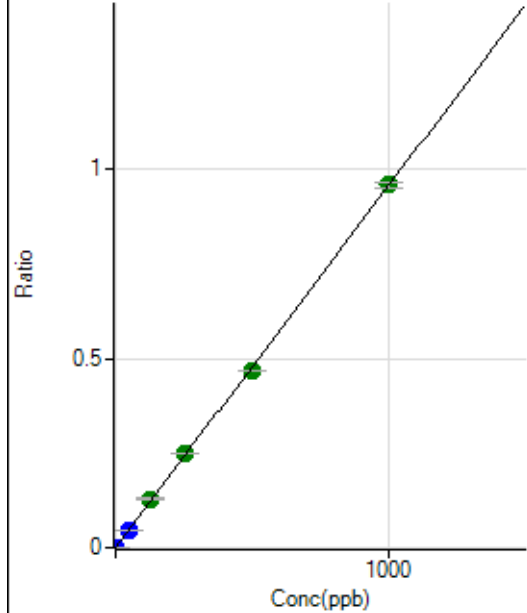
$$DL = 0.002381$$

$$BEC = 0.01832$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	800.04	0.0000	P	9.4
2	☐	1.000	0.941	19046.12	0.0009	P	2.5
3	☐	50.000	49.994	975877.17	0.0479	P	1.1
4	☐	125.000	133.623	2503309.13	0.1279	A	3.9
5	☐	250.000	260.092	4944210.40	0.2489	A	0.3
6	☐	500.000	487.437	9599368.27	0.4664	A	0.2
7	☐	1000.000	1002.681	19624322.48	0.9594	A	1.8
8	☐			10478.99	0.0006	P	4.2

$$y = 9.5681E-004 * x + 4.0331E-005$$

$$R = 0.9998$$

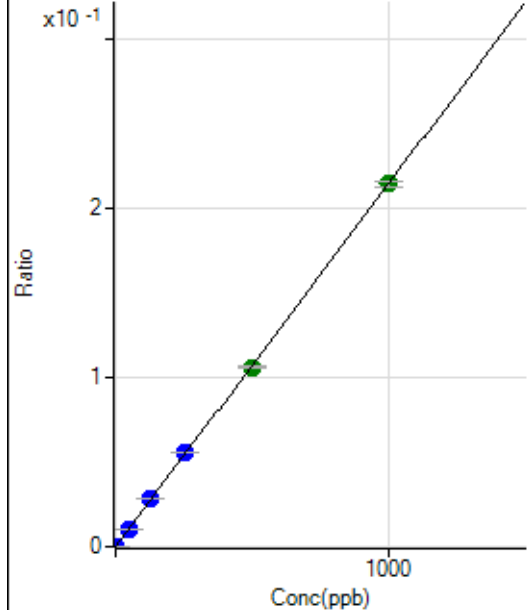
$$DL = 0.01183$$

$$BEC = 0.04215$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.23	0.0000	P	22.5
2	☐	1.000	0.909	4120.13	0.0002	P	4.0
3	☐	50.000	49.916	218351.38	0.0107	P	1.1
4	☐	125.000	132.853	557900.27	0.0285	P	2.9
5	☐	250.000	259.825	1106791.64	0.0557	P	1.2
6	☐	500.000	493.284	2177204.56	0.1058	A	1.1
7	☐	1000.000	999.924	4386048.36	0.2144	A	1.7
8	☐			2430.82	0.0001	P	4.6

$$y = 2.1443E-004 * x + 8.6887E-006$$

$$R = 0.9999$$

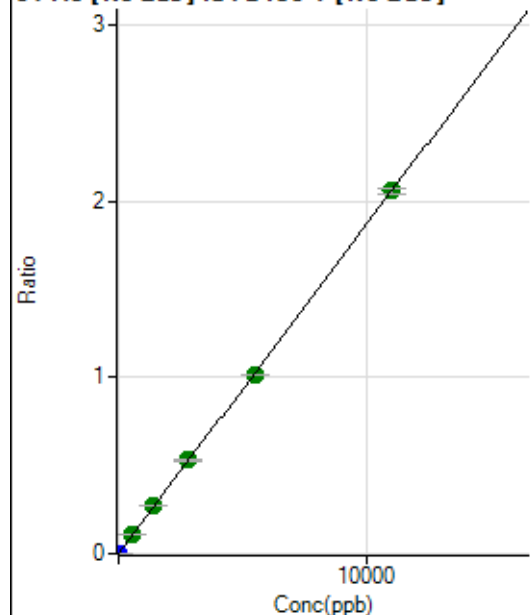
$$DL = 0.02736$$

$$BEC = 0.04052$$

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	275.01	0.0000	P	23.4
2	☐	5.000	5.900	22648.44	0.0011	P	1.5
3	☐	550.000	559.893	2136339.65	0.1048	A	0.5
4	☐	1375.000	1456.189	5335336.67	0.2726	A	3.5
5	☐	2750.000	2846.256	10580960.13	0.5327	A	1.2
6	☐	5500.000	5411.923	20845837.10	1.0129	A	0.5
7	☐	11000.000	11009.331	42146284.97	2.0605	A	1.8
8	☐			12697.47	0.0007	P	3.7

$$y = 1.8716E-004 * x + 1.3843E-005$$

$$R = 0.9999$$

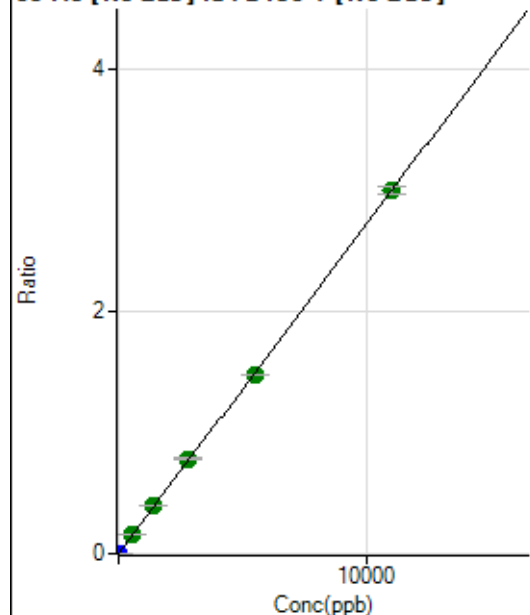
$$DL = 0.05188$$

$$BEC = 0.07396$$

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	75.00	0.0000	P	11.8
2	☐	5.000	4.972	27451.36	0.0014	P	2.4
3	☐	550.000	563.477	3121174.25	0.1531	A	0.5
4	☐	1375.000	1452.059	7725218.92	0.3946	A	2.6
5	☐	2750.000	2884.439	15567583.16	0.7838	A	1.3
6	☐	5500.000	5412.742	30269063.87	1.4708	A	0.6
7	☐	11000.000	10999.713	61133097.90	2.9889	A	2.3
8	☐			15002.48	0.0008	P	5.2

$$y = 2.7172E-004 * x + 3.7822E-006$$

$$R = 0.9999$$

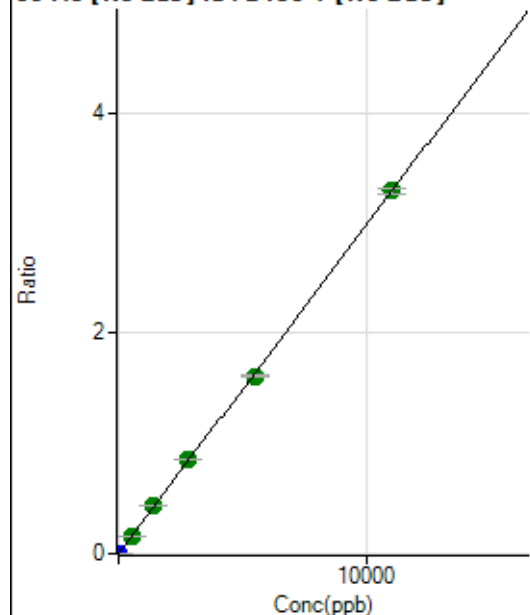
$$DL = 0.004942$$

$$BEC = 0.01392$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	533.36	0.0000	P	5.8
2	☐	5.000	5.031	30958.28	0.0015	P	0.3
3	☐	550.000	553.018	3364705.00	0.1651	A	0.4
4	☐	1375.000	1460.345	8532650.80	0.4358	A	3.1
5	☐	2750.000	2863.515	16974086.49	0.8546	A	1.4
6	☐	5500.000	5382.996	33061673.31	1.6065	A	1.0
7	☐	11000.000	11019.304	67265368.86	3.2886	A	1.9
8	☐			19151.80	0.0010	P	5.2

$$y = 2.9843E-004 * x + 2.6885E-005$$

R = 0.9998

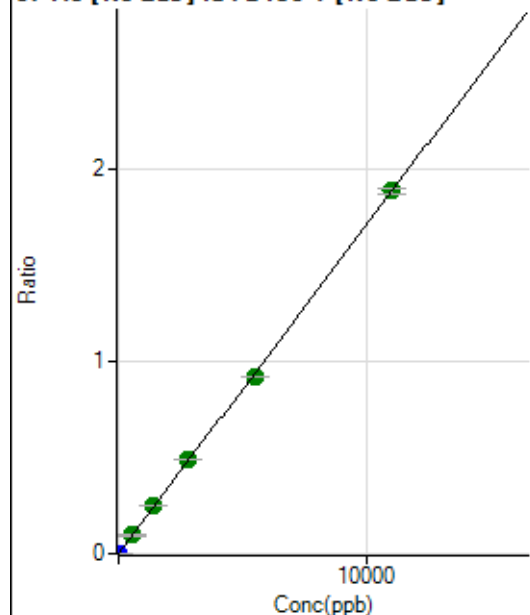
DL = 0.01561

BEC = 0.09009

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	68.2
2	☐	5.000	4.953	17199.46	0.0008	P	2.0
3	☐	550.000	555.231	1933026.93	0.0948	A	0.6
4	☐	1375.000	1460.124	4882086.48	0.2494	A	3.2
5	☐	2750.000	2860.712	9704293.27	0.4886	A	1.5
6	☐	5500.000	5382.432	18918837.23	0.9193	A	0.7
7	☐	11000.000	11020.204	38499105.38	1.8822	A	1.8
8	☐			9342.13	0.0005	P	7.9

$$y = 1.7079E-004 * x + 3.0683E-006$$

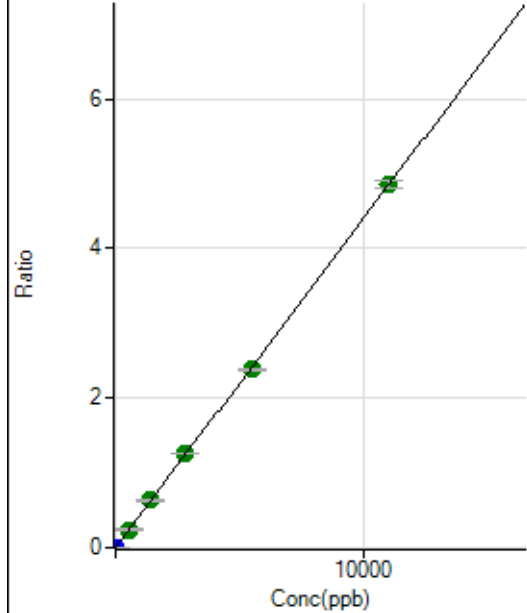
R = 0.9998

DL = 0.03678

BEC = 0.01796

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	263.90	0.0000	P	11.3
2	☐	5.000	4.979	44663.34	0.0022	P	2.8
3	☐	550.000	553.351	4966804.32	0.2437	A	1.0
4	☐	1375.000	1454.874	12539701.23	0.6406	A	3.5
5	☐	2750.000	2862.728	25035498.13	1.2605	A	1.5
6	☐	5500.000	5401.760	48948086.16	2.3784	A	0.6
7	☐	11000.000	11010.786	99160982.08	4.8480	A	2.1
8	☐			22809.94	0.0012	P	5.6

$$y = 4.4030\text{E-}004 * x + 1.3303\text{E-}005$$

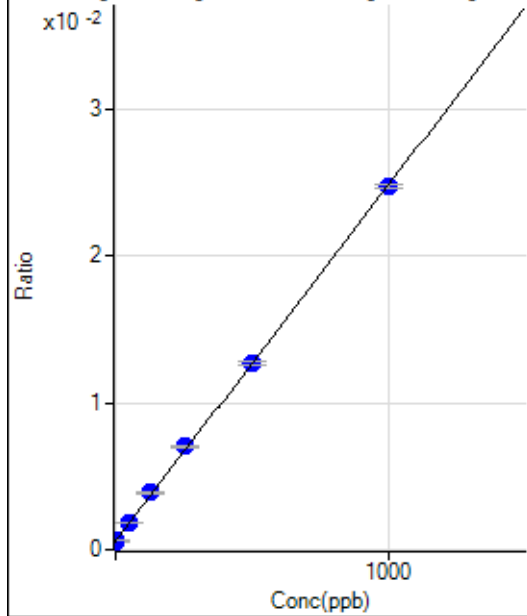
$$R = 0.9999$$

$$DL = 0.01022$$

$$BEC = 0.03021$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8088.45	0.0006	P	1.5
2	☐	1.000	1.041	8663.80	0.0006	P	3.5
3	☐	50.000	53.103	26990.46	0.0019	P	0.4
4	☐	125.000	136.636	54656.79	0.0039	P	2.7
5	☐	250.000	265.263	100842.68	0.0070	P	1.4
6	☐	500.000	499.954	186983.67	0.0127	P	1.8
7	☐	1000.000	994.598	362617.91	0.0247	P	1.1
8	☐			8005.06	0.0006	P	1.9

$$y = 2.4266\text{E-}005 * x + 5.7764\text{E-}004$$

$$R = 0.9998$$

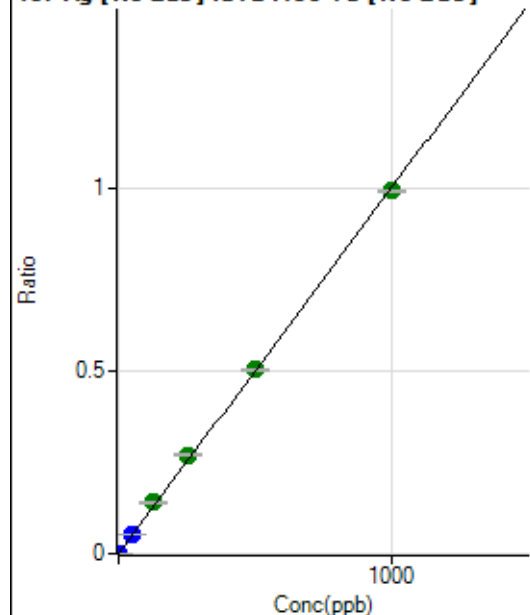
$$DL = 1.099$$

$$BEC = 23.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	126.39	0.0000	P	25.0
2	☐	1.000	0.998	14458.73	0.0010	P	6.6
3	☐	50.000	53.776	777656.84	0.0538	P	1.4
4	☐	125.000	140.395	1970453.30	0.1404	A	3.4
5	☐	250.000	269.945	3880099.48	0.2699	A	2.0
6	☐	500.000	502.432	7390737.66	0.5024	A	1.6
7	☐	1000.000	991.685	14549142.34	0.9915	A	0.8
8	☐			4652.20	0.0003	P	5.8

$$y = 9.9983\text{E-}004 * x + 9.0297\text{E-}006$$

$$R = 0.9997$$

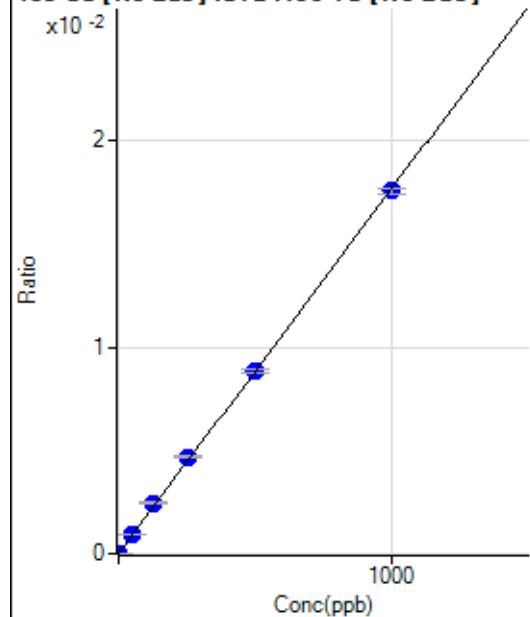
$$DL = 0.006779$$

$$BEC = 0.009031$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	131.95	0.0000	P	28.9
2	☐	1.000	0.950	376.40	0.0000	P	10.6
3	☐	50.000	52.779	13603.70	0.0009	P	2.4
4	☐	125.000	138.118	34336.42	0.0024	P	4.1
5	☐	250.000	265.606	67515.75	0.0047	P	1.3
6	☐	500.000	499.678	129854.92	0.0088	P	2.0
7	☐	1000.000	994.481	257628.40	0.0176	P	1.2
8	☐			205.56	0.0000	P	15.7

$$y = 1.7646\text{E-}005 * x + 9.4169\text{E-}006$$

$$R = 0.9998$$

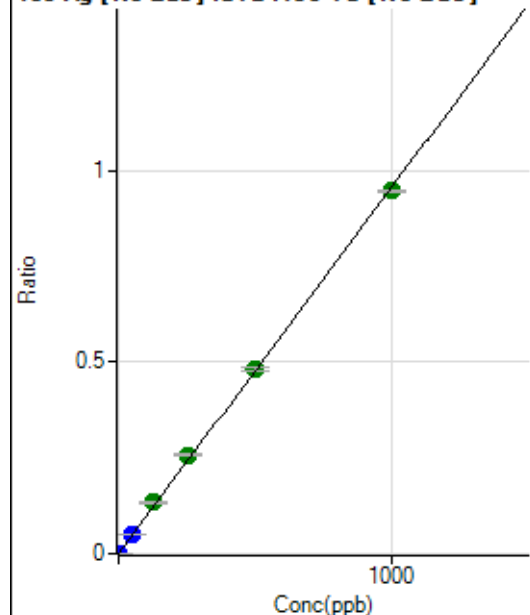
$$DL = 0.4632$$

$$BEC = 0.5337$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.84	0.0000	P	34.7
2	☐	1.000	0.999	13724.65	0.0010	P	3.7
3	☐	50.000	54.183	747858.07	0.0517	P	1.5
4	☐	125.000	140.818	1886380.81	0.1344	A	3.7
5	☐	250.000	269.077	3692003.60	0.2568	A	1.5
6	☐	500.000	504.118	7078750.68	0.4811	A	1.3
7	☐	1000.000	990.985	13878531.56	0.9458	A	0.5
8	☐			4199.26	0.0003	P	5.3

$$y = 9.5441\text{E-}004 * x + 1.4882\text{E-}006$$

$$R = 0.9997$$

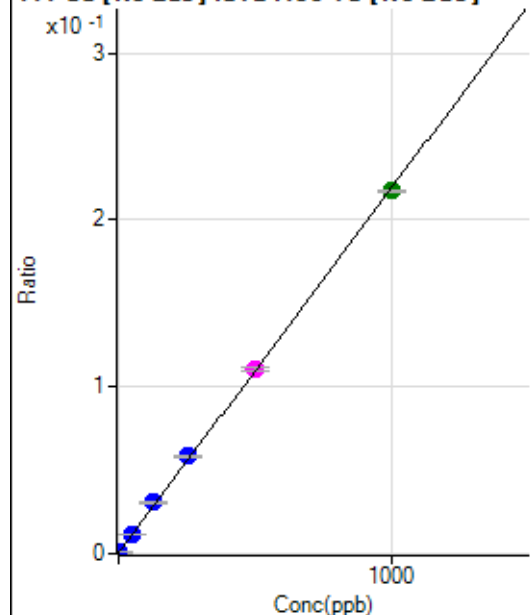
$$DL = 0.001622$$

$$BEC = 0.001559$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5611.22	0.0004	P	1.6
2	☐	1.000	1.045	9043.25	0.0006	P	2.5
3	☐	50.000	53.037	173541.59	0.0120	P	0.8
4	☐	125.000	137.885	428916.08	0.0306	P	3.3
5	☐	250.000	266.239	842835.19	0.0586	P	1.8
6	☐	500.000	503.820	1626970.56	0.1106	M	1.8
7	☐	1000.000	992.268	3190228.45	0.2174	A	0.8
8	☐			6181.90	0.0005	P	2.1

$$y = 2.1870\text{E-}004 * x + 4.0074\text{E-}004$$

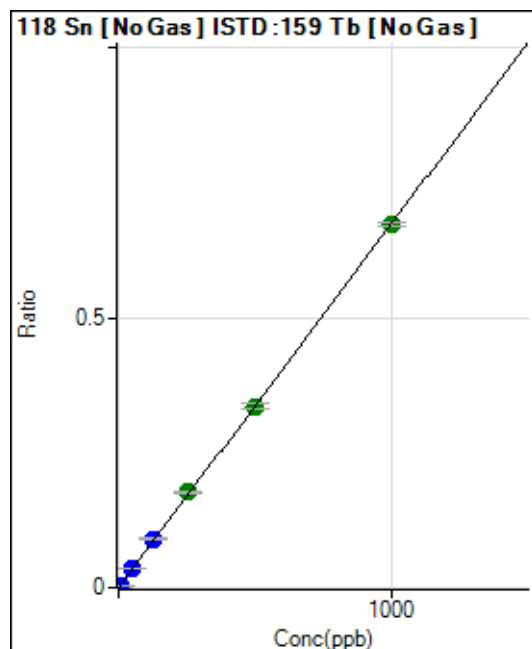
$$R = 0.9998$$

$$DL = 0.08602$$

$$BEC = 1.832$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1836.32	0.0001	P	6.8
2	☐	5.000	5.048	50768.09	0.0035	P	2.2
3	☐	50.000	51.041	499384.20	0.0345	P	0.4
4	☐	125.000	133.010	1260015.06	0.0898	P	3.8
5	☐	250.000	262.149	2541973.32	0.1768	A	1.7
6	☐	500.000	497.888	4938397.29	0.3357	A	2.8
7	☐	1000.000	996.965	9861077.04	0.6720	A	1.0
8	☐			6810.11	0.0005	P	3.0

$$y = 6.7395E-004 * x + 1.3116E-004$$

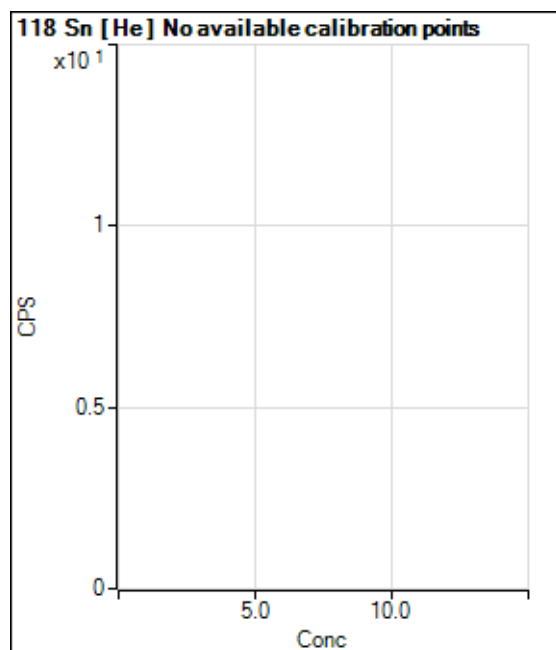
$$R = 0.9999$$

$$DL = 0.03992$$

$$BEC = 0.1946$$

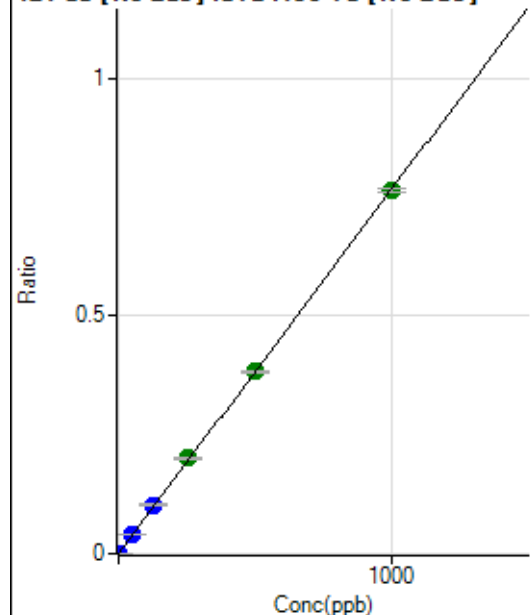
Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			864.29		P	5.9
2	☐			20772.87		P	1.6
3	☐			207005.41		P	0.4
4	☐			526474.35		P	0.5
5	☐			1029308.15		P	0.0
6	☐			2063318.43		A	0.5
7	☐			4096582.48		A	0.4
8	☐			2766.46		P	8.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	104.17	0.0000	P	25.1
2	☐	2.000	1.990	22018.40	0.0015	P	1.8
3	☐	50.000	50.867	563839.73	0.0390	P	0.5
4	☐	125.000	132.882	1429347.70	0.1018	P	3.7
5	☐	250.000	263.053	2898141.27	0.2016	A	1.7
6	☐	500.000	499.339	5629823.31	0.3827	A	1.2
7	☐	1000.000	996.039	11200223.26	0.7633	A	1.1
8	☐			7756.33	0.0006	P	2.8

$$y = 7.6632\text{E-}004 * x + 7.4415\text{E-}006$$

$$R = 0.9999$$

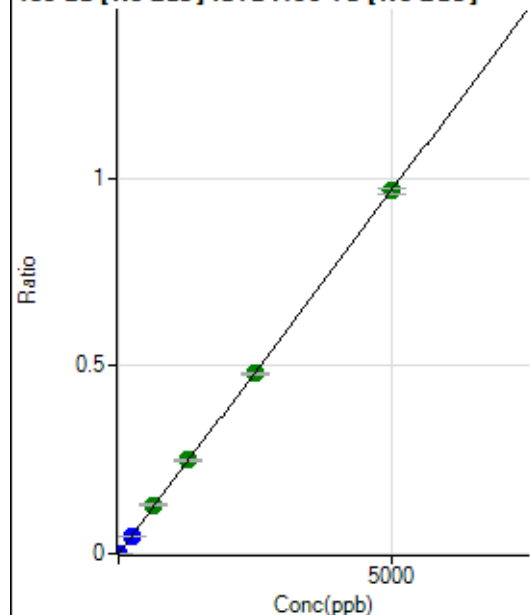
$$DL = 0.007313$$

$$BEC = 0.009711$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.44	0.0000	P	59.8
2	☐	10.000	9.597	26747.86	0.0019	P	2.7
3	☐	250.000	247.986	694527.22	0.0480	P	1.2
4	☐	625.000	669.900	1820664.10	0.1297	A	4.1
5	☐	1250.000	1290.794	3593298.52	0.2500	A	2.6
6	☐	2500.000	2477.325	7058305.97	0.4797	A	0.8
7	☐	5000.000	4995.628	14195104.66	0.9674	A	1.3
8	☐			6554.46	0.0005	P	1.8

$$y = 1.9365\text{E-}004 * x + 3.1683\text{E-}006$$

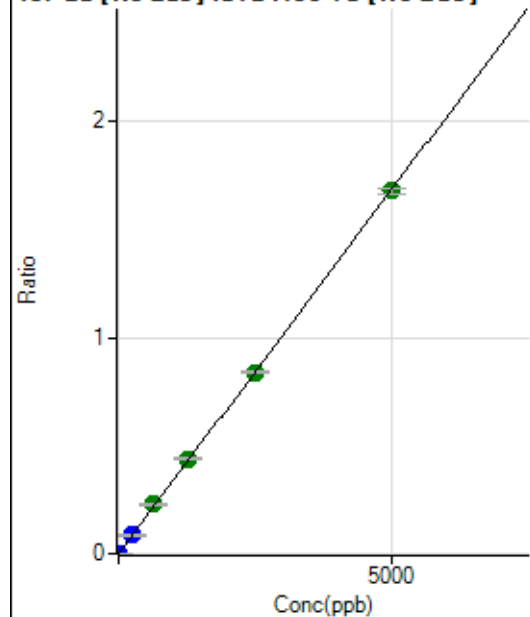
$$R = 0.9999$$

$$DL = 0.02936$$

$$BEC = 0.01636$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.45	0.0000	P	42.6
2	☐	10.000	9.519	46150.67	0.0032	P	2.6
3	☐	250.000	250.980	1223091.38	0.0846	P	1.2
4	☐	625.000	674.644	3190055.71	0.2273	A	4.7
5	☐	1250.000	1301.093	6303209.39	0.4384	A	1.5
6	☐	2500.000	2494.104	12365115.47	0.8404	A	0.6
7	☐	5000.000	4983.921	24642175.03	1.6794	A	1.3
8	☐			10960.06	0.0008	P	0.8

$$y = 3.3696E-004 * x + 4.9662E-006$$

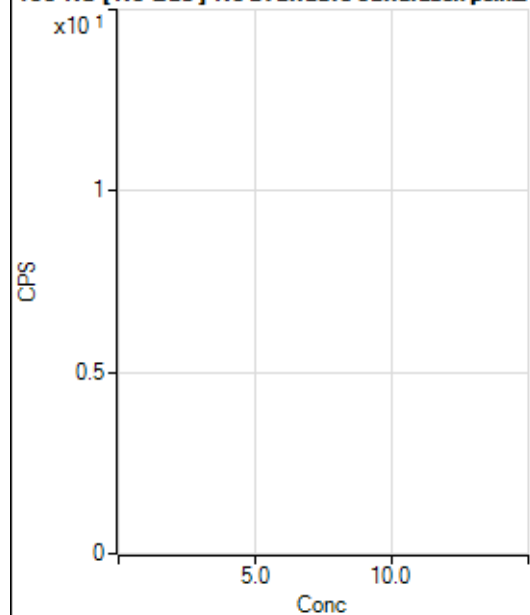
$$R = 0.9999$$

$$DL = 0.01881$$

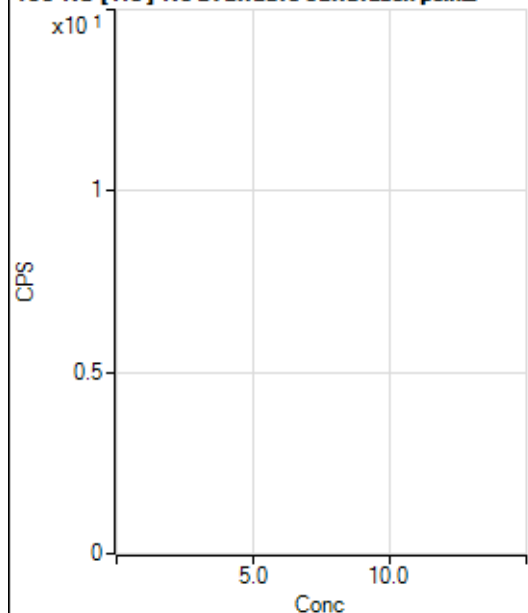
$$BEC = 0.01474$$

Weight: <None>

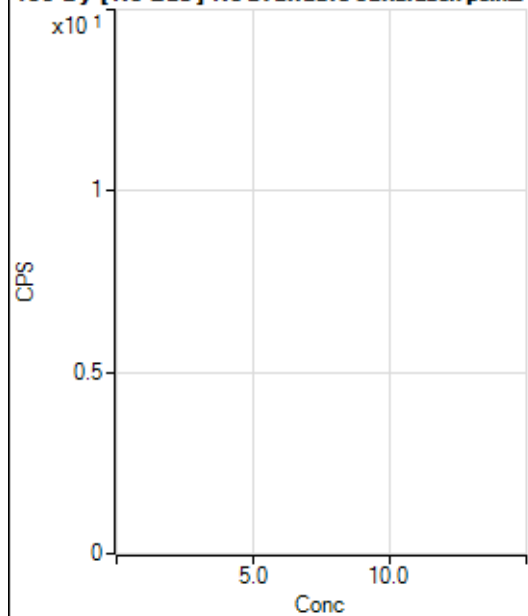
Min Conc: 0

150 Nd [No Gas] No available calibration points

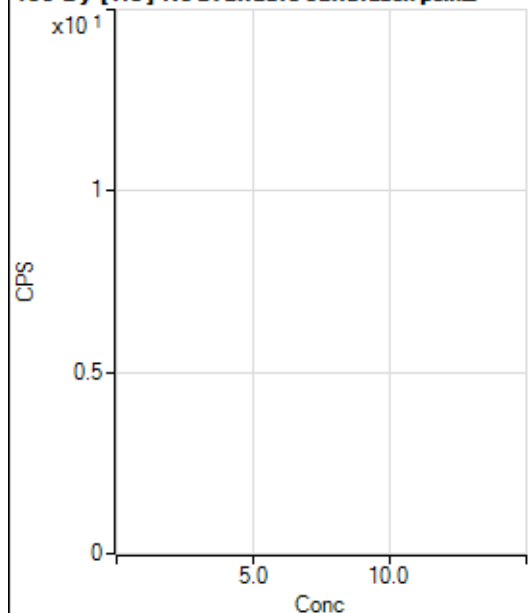
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2.22		P	173.
2	☐			17.78		P	78.1
3	☐			71.11		P	10.8
4	☐			102.23		P	7.5
5	☐			280.01		P	13.3
6	☐			571.13		P	9.4
7	☐			1222.30		P	6.8
8	☐			146.67		P	4.5

150 Nd [He] No available calibration points

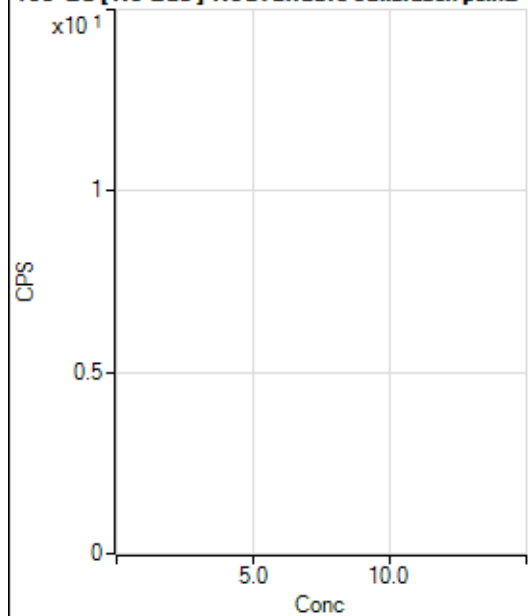
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			5.56		P	91.6
3	☐			11.11		P	121.
4	☐			22.22		P	8.7
5	☐			56.66		P	27.0
6	☐			102.22		P	20.7
7	☐			178.89		P	9.6
8	☐			70.00		P	8.2

156 Dy [No Gas] No available calibration points

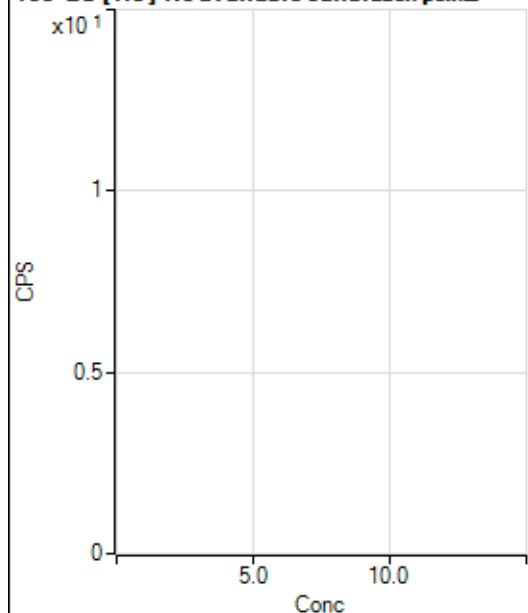
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			102.78		P	12.4
2	☐			69.45		P	50.0
3	☐			177.78		P	9.8
4	☐			200.01		P	12.5
5	☐			333.34		P	5.0
6	☐			483.35		P	10.5
7	☐			763.93		P	10.9
8	☐			2858.71		P	6.3

156 Dy [He] No available calibration points

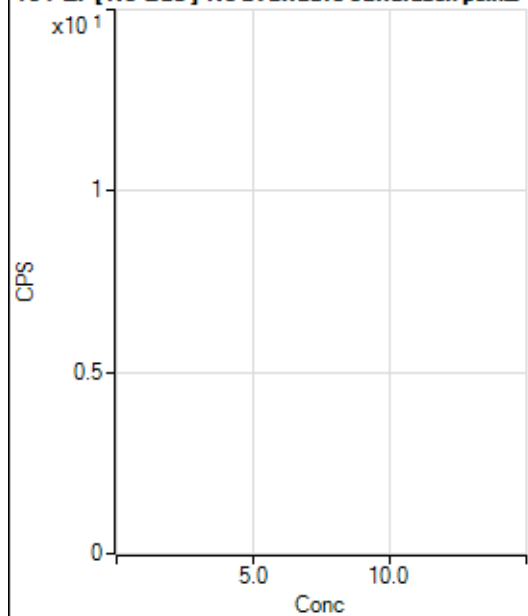
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			51.11		P	81.5
3	☐			72.22		P	7.0
4	☐			107.78		P	15.6
5	☐			205.56		P	11.5
6	☐			362.23		P	8.6
7	☐			723.36		P	6.2
8	☐			1710.12		P	2.5

160 Gd [No Gas] Noavailable calibration poin_

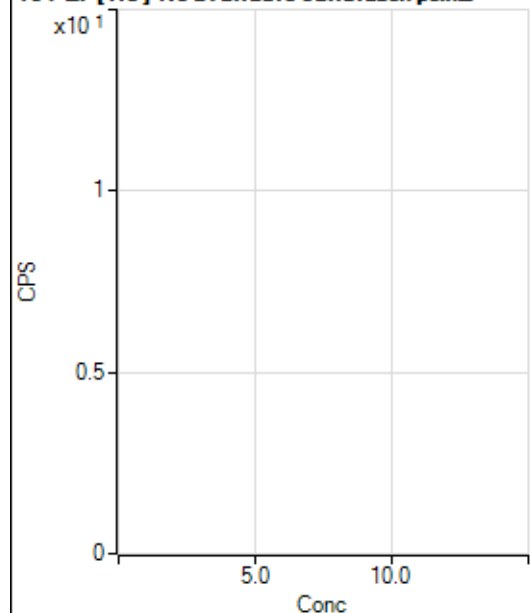
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	56.7
2	☐			61.11		P	43.8
3	☐			66.67		P	33.1
4	☐			125.00		P	24.0
5	☐			186.12		P	14.4
6	☐			327.79		P	3.9
7	☐			522.25		P	7.2
8	☐			2155.77		P	7.0

160 Gd [He] No available calibration points

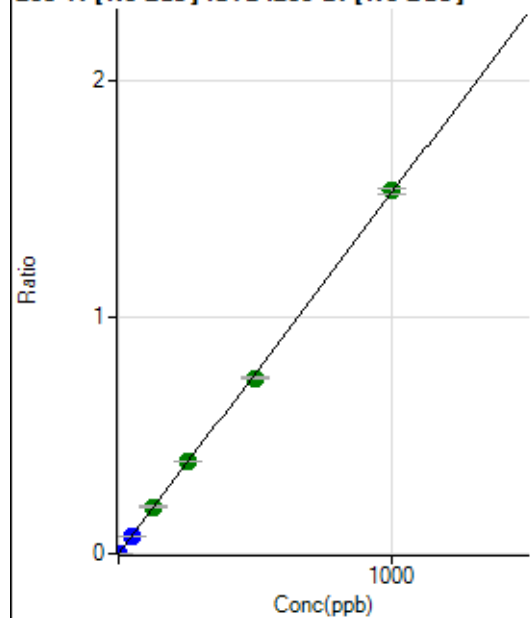
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			257.78		P	7.6
2	☐			255.56		P	13.9
3	☐			255.56		P	12.9
4	☐			266.67		P	9.8
5	☐			320.01		P	6.3
6	☐			415.57		P	0.5
7	☐			582.24		P	8.7
8	☐			1880.14		P	5.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			102.78		P	16.9
2	☐			88.89		P	28.6
3	☐			125.00		P	29.1
4	☐			94.45		P	5.1
5	☐			161.12		P	13.0
6	☐			163.90		P	38.2
7	☐			275.01		P	12.1
8	☐			455.58		P	8.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			63.33		P	24.1
2	☐			68.89		P	12.2
3	☐			73.33		P	24.0
4	☐			91.11		P	27.0
5	☐			98.89		P	38.9
6	☐			107.78		P	21.1
7	☐			146.67		P	6.0
8	☐			278.89		P	13.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1541.80	0.0002	P	2.2
2	☐	1.000	0.840	14783.40	0.0014	P	4.6
3	☐	50.000	45.441	722246.50	0.0694	P	1.0
4	☐	125.000	129.296	1955686.74	0.1971	A	3.7
5	☐	250.000	254.958	3891728.91	0.3886	A	0.9
6	☐	500.000	485.562	7567342.88	0.7399	A	1.0
7	☐	1000.000	1005.671	15238850.17	1.5324	A	1.6
8	☐			3817.31	0.0005	P	11.5

$$y = 0.0015 * x + 1.5300E-004$$

$$R = 0.9998$$

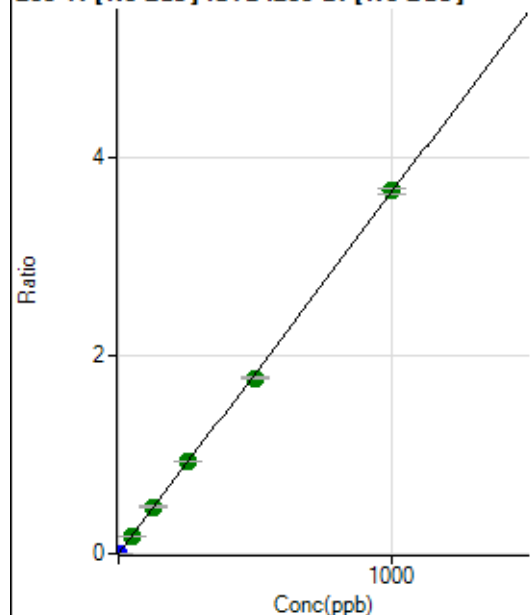
$$DL = 0.006723$$

$$BEC = 0.1004$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3664.48	0.0004	P	3.9
2	☐	1.000	0.863	36160.01	0.0035	P	4.0
3	☐	50.000	48.224	1832060.76	0.1760	A	1.1
4	☐	125.000	128.617	4651252.32	0.4688	A	3.2
5	☐	250.000	255.906	9338207.59	0.9324	A	0.1
6	☐	500.000	487.117	18148954.92	1.7746	A	0.1
7	☐	1000.000	1004.602	36391700.47	3.6594	A	1.4
8	☐			9928.91	0.0012	P	6.9

$$y = 0.0036 * x + 3.6366E-004$$

$$R = 0.9999$$

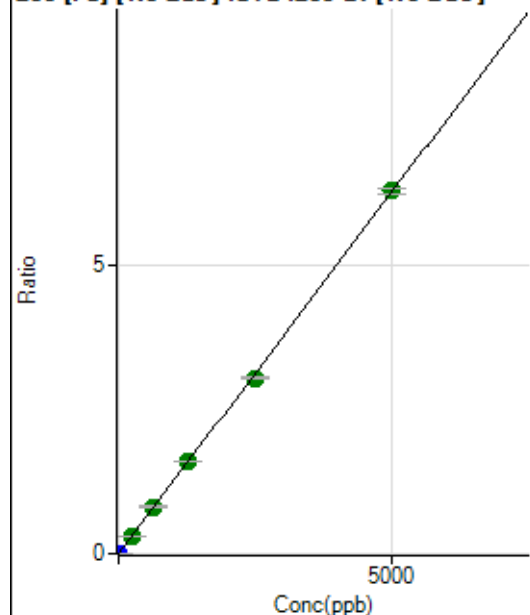
$$DL = 0.0116$$

$$BEC = 0.09984$$

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	500.02	0.0000	P	13.9
2	☐	1.000	0.884	11940.62	0.0012	P	3.9
3	☐	250.000	246.026	3211138.76	0.3085	A	1.0
4	☐	625.000	648.063	8060305.68	0.8125	A	3.7
5	☐	1250.000	1283.362	16113746.66	1.6090	A	0.4
6	☐	2500.000	2433.259	31198967.13	3.0507	A	0.7
7	☐	5000.000	5022.346	62617775.47	6.2967	A	1.7
8	☐			30846.44	0.0037	P	3.0

$$y = 0.0013 * x + 4.9633E-005$$

$$R = 0.9998$$

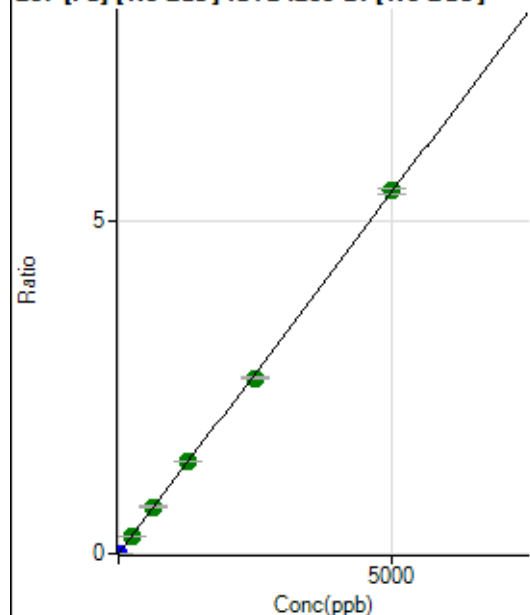
$$DL = 0.01646$$

$$BEC = 0.03959$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	459.27	0.0000	P	15.1
2	☐	1.000	0.828	9722.22	0.0009	P	1.5
3	☐	250.000	244.296	2755265.48	0.2647	A	1.1
4	☐	625.000	651.590	7003356.52	0.7059	A	3.3
5	☐	1250.000	1274.809	13830845.10	1.3811	A	0.6
6	☐	2500.000	2431.580	26940649.91	2.6342	A	0.4
7	☐	5000.000	5024.970	54136724.36	5.4437	A	1.7
8	☐			25617.37	0.0031	P	1.6

$$y = 0.0011 * x + 4.5557E-005$$

$$R = 0.9998$$

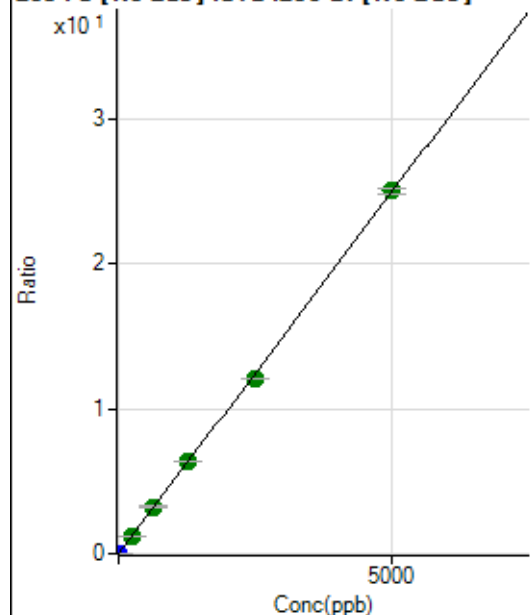
$$DL = 0.01903$$

$$BEC = 0.04205$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2118.62	0.0002	P	2.6
2	☐	1.000	0.862	46463.84	0.0045	P	2.5
3	☐	250.000	245.535	12731662.26	1.2231	A	0.8
4	☐	625.000	650.321	32132880.17	3.2392	A	3.6
5	☐	1250.000	1281.973	63945441.36	6.3852	A	0.5
6	☐	2500.000	2432.769	123920787.96	12.1169	A	0.3
7	☐	5000.000	5022.681	248779220.37	25.0163	A	1.5
8	☐			120921.70	0.0147	P	1.6

$$y = 0.0050 * x + 2.1024E-004$$

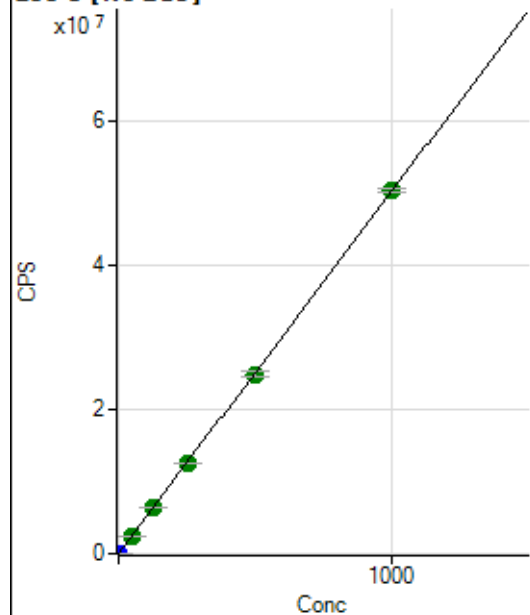
$$R = 0.9998$$

$$DL = 0.00326$$

$$BEC = 0.04221$$

Weight: <None>

Min Conc: 0

238 U [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.78		P	9.1
2	☐	1.000	0.828	41614.07		P	3.3
3	☐	50.000	49.852	2503326.73		A	0.6
4	☐	125.000	126.578	6356021.11		A	0.3
5	☐	250.000	249.061	12506374.67		A	0.6
6	☐	500.000	496.326	24922466.36		A	2.4
7	☐	1000.000	1001.882	50308377.52		A	1.0
8	☐			5568.06		P	5.5

$$y = 50213.8191 * x + 52.7767$$

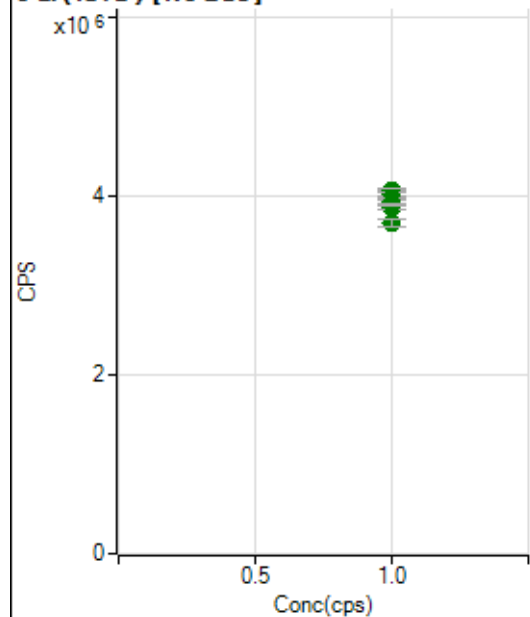
$$R = 1.0000$$

$$DL = 0.0002873$$

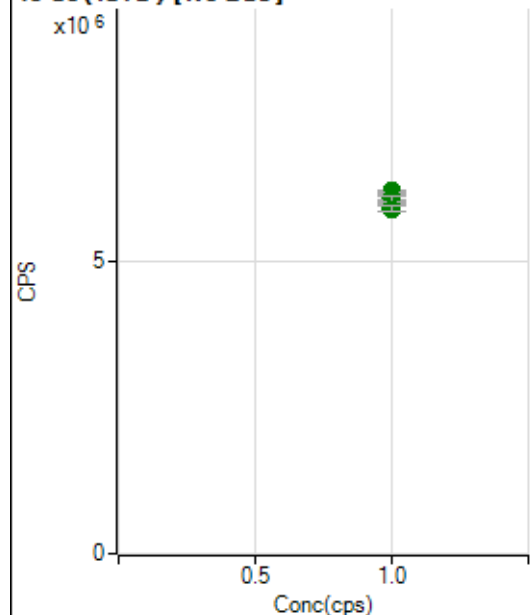
$$BEC = 0.001051$$

Weight: <None>

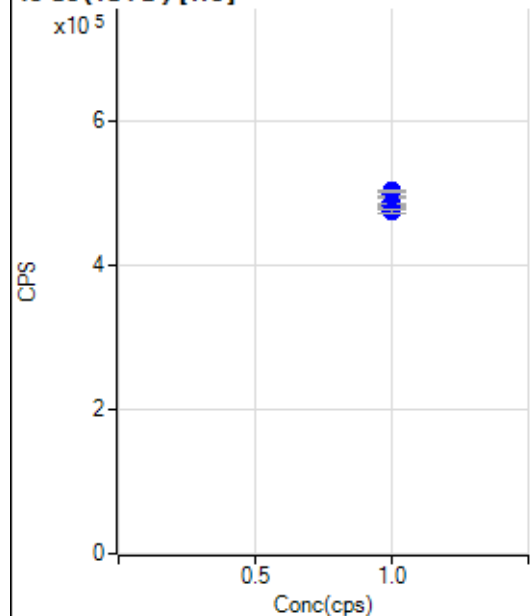
Min Conc: 0

6 Li (ISTD) [No Gas]

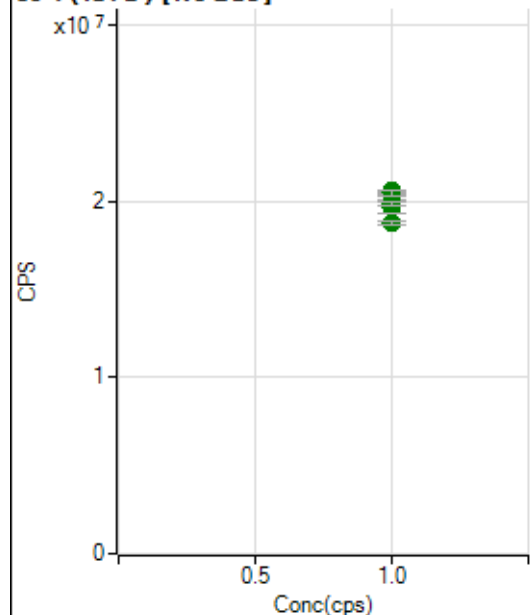
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3973004.73		A	1.0
2	☐	1.000		4025746.16		A	1.5
3	☐	1.000		4053523.97		A	1.2
4	☐	1.000		3877439.35		A	2.0
5	☐	1.000		3924645.25		A	1.1
6	☐	1.000		3971901.16		A	0.5
7	☐	1.000		3903870.84		A	0.6
8	☐	1.000		3694769.25		A	2.6

45 Sc (ISTD) [No Gas]

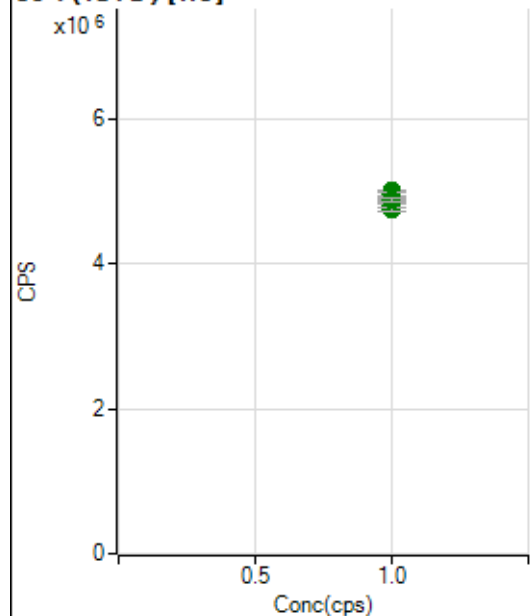
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5960144.70		A	0.9
2	☐	1.000		6081973.17		A	2.0
3	☐	1.000		6194276.64		A	0.4
4	☐	1.000		5897091.02		A	2.2
5	☐	1.000		6022474.36		A	0.4
6	☐	1.000		6156116.57		A	0.2
7	☐	1.000		6060662.61		A	1.9
8	☐	1.000		5888000.67		A	1.5

45 Sc (ISTD) [He]

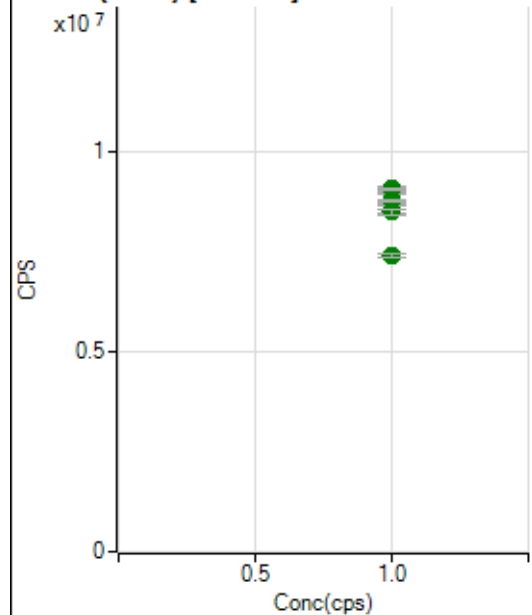
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		487501.58		P	1.9
2	☐	1.000		497241.16		P	1.0
3	☐	1.000		495888.79		P	1.6
4	☐	1.000		500393.43		P	1.4
5	☐	1.000		485540.74		P	0.3
6	☐	1.000		482979.76		P	1.4
7	☐	1.000		474165.93		P	1.6
8	☐	1.000		502763.81		P	0.3

89 Y (ISTD) [No Gas]

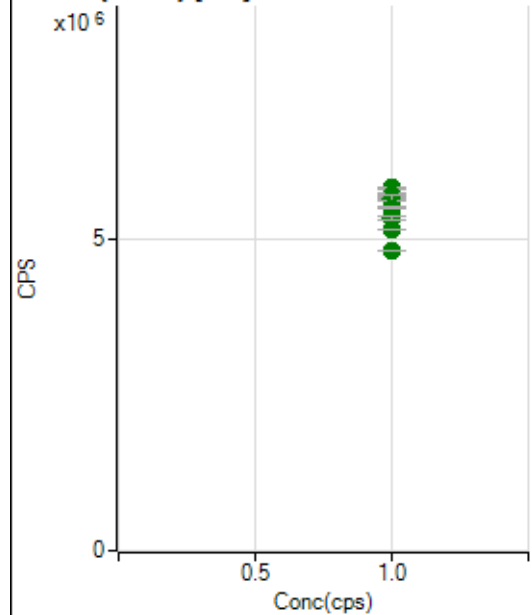
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19841767.21		A	0.9
2	☐	1.000		20255620.39		A	1.8
3	☐	1.000		20384270.25		A	0.6
4	☐	1.000		19590113.18		A	3.3
5	☐	1.000		19864095.40		A	1.1
6	☐	1.000		20580851.08		A	0.7
7	☐	1.000		20458689.42		A	1.7
8	☐	1.000		18769111.80		A	1.0

89 Y (ISTD) [He]

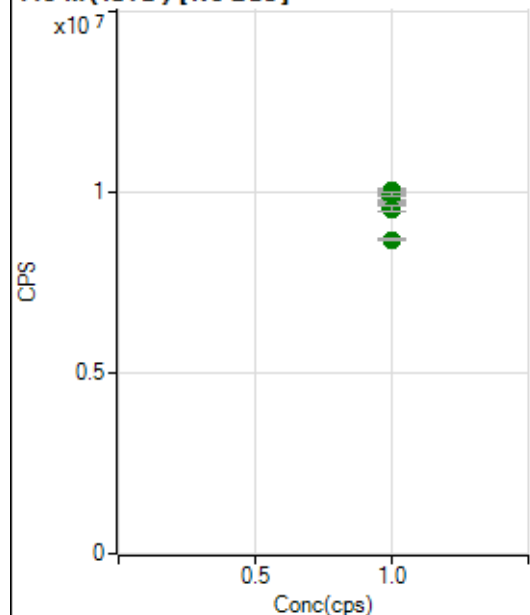
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4930094.23		A	0.8
2	☐	1.000		4994764.34		A	0.6
3	☐	1.000		5008213.40		A	0.3
4	☐	1.000		4956623.02		A	1.2
5	☐	1.000		4865608.92		A	1.1
6	☐	1.000		4807318.44		A	1.5
7	☐	1.000		4744006.98		A	0.9
8	☐	1.000		4885459.37		A	0.8

103 Rh (ISTD) [No Gas]

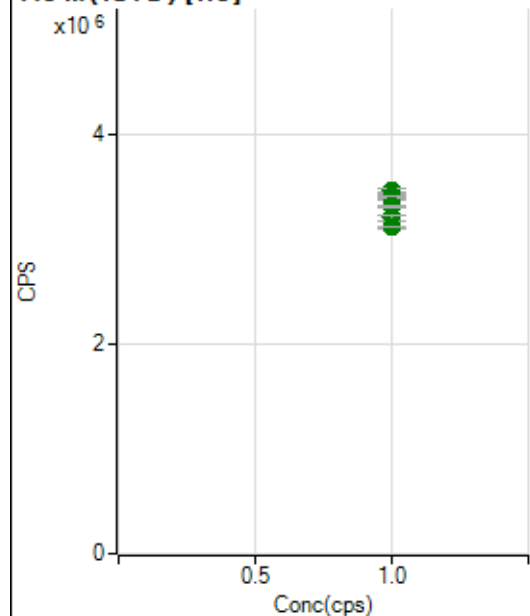
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8934989.93		A	0.5
2	☐	1.000		9060799.38		A	1.4
3	☐	1.000		9062343.34		A	0.5
4	☐	1.000		8559632.10		A	2.5
5	☐	1.000		8667890.70		A	0.9
6	☐	1.000		8788886.95		A	0.5
7	☐	1.000		8486674.25		A	1.6
8	☐	1.000		7386468.22		A	1.4

103 Rh (ISTD) [He]

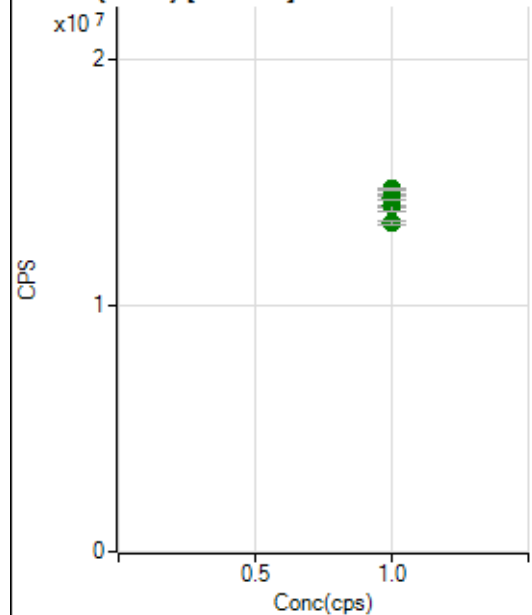
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5669777.69		A	1.4
2	☐	1.000		5806505.95		A	0.6
3	☐	1.000		5697920.05		A	1.2
4	☐	1.000		5637787.48		A	1.7
5	☐	1.000		5485882.76		A	0.7
6	☐	1.000		5327697.04		A	1.3
7	☐	1.000		5148352.11		A	0.2
8	☐	1.000		4804563.64		A	0.4

115 In (ISTD) [No Gas]

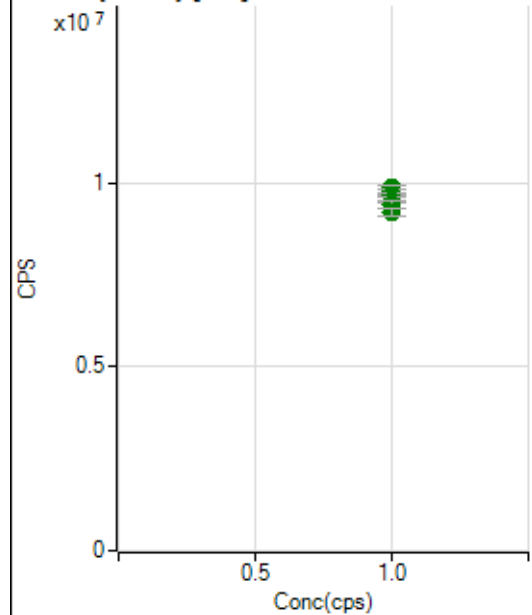
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9817663.28		A	0.9
2	☐	1.000		10024556.21		A	1.9
3	☐	1.000		10006846.09		A	0.7
4	☐	1.000		9560709.04		A	2.2
5	☐	1.000		9686542.82		A	0.7
6	☐	1.000		9912048.50		A	1.0
7	☐	1.000		9521822.55		A	1.6
8	☐	1.000		8685552.59		A	0.3

115 In (ISTD) [He]

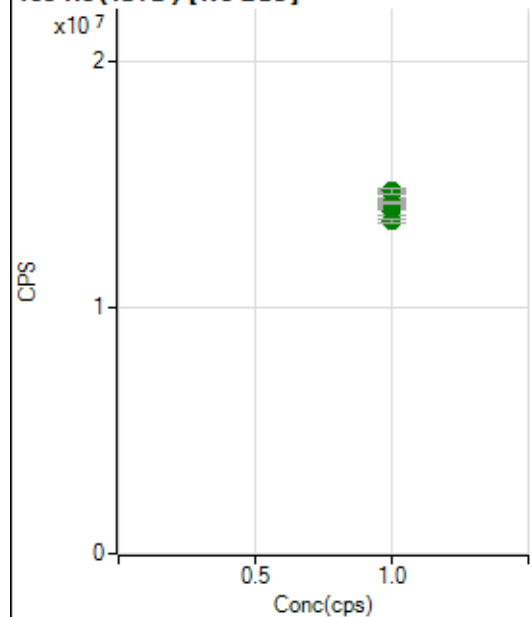
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3399316.17		A	1.5
2	☐	1.000		3464126.75		A	1.1
3	☐	1.000		3412025.97		A	1.3
4	☐	1.000		3408657.34		A	0.6
5	☐	1.000		3319304.03		A	0.4
6	☐	1.000		3206848.47		A	1.9
7	☐	1.000		3117846.82		A	0.8
8	☐	1.000		3123622.67		A	0.4

159 Tb (ISTD) [No Gas]

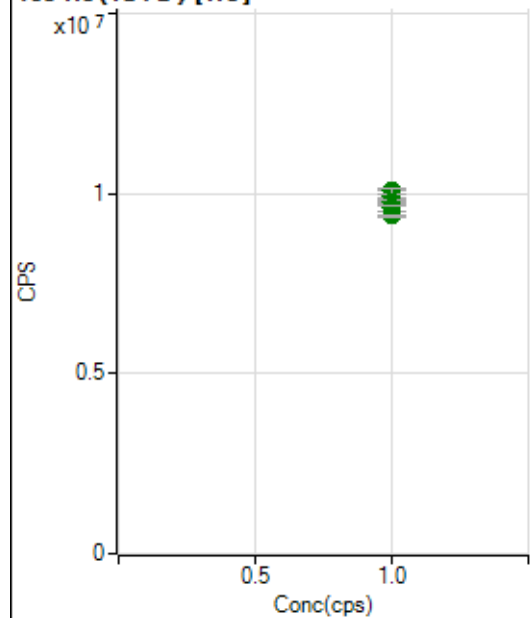
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14002277.85		A	0.5
2	☐	1.000		14367277.56		A	1.3
3	☐	1.000		14462389.37		A	1.0
4	☐	1.000		14047223.82		A	3.4
5	☐	1.000		14378462.56		A	1.6
6	☐	1.000		14713206.31		A	0.7
7	☐	1.000		14673968.67		A	0.7
8	☐	1.000		13334398.83		A	1.0

159 Tb (ISTD) [He]

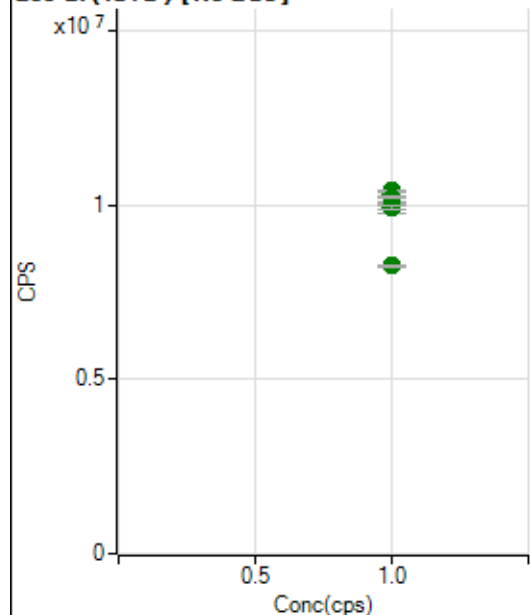
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9655314.79		A	1.0
2	☐	1.000		9756835.76		A	1.4
3	☐	1.000		9687248.19		A	0.4
4	☐	1.000		9868558.95		A	1.1
5	☐	1.000		9676995.90		A	0.7
6	☐	1.000		9541006.66		A	2.0
7	☐	1.000		9432150.07		A	2.1
8	☐	1.000		9203258.61		A	1.9

165 Ho (ISTD) [No Gas]

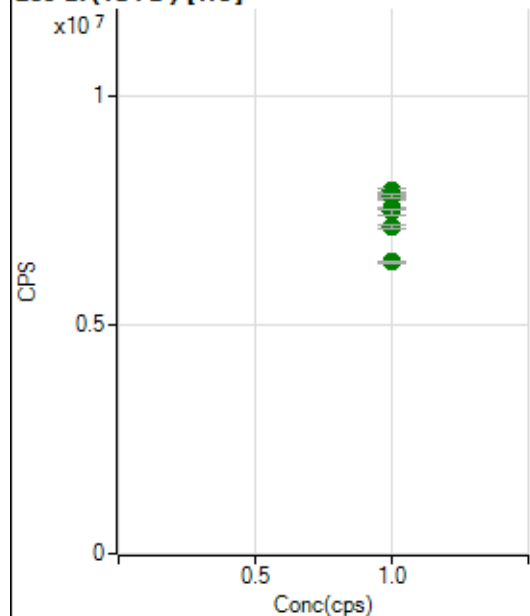
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14012950.48		A	0.6
2	☐	1.000		14316153.95		A	0.8
3	☐	1.000		14430455.89		A	0.5
4	☐	1.000		13940816.18		A	3.2
5	☐	1.000		14252457.98		A	0.3
6	☐	1.000		14708953.53		A	0.6
7	☐	1.000		14739416.03		A	1.3
8	☐	1.000		13518437.16		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9770352.84		A	1.0
2	☐	1.000		9967159.30		A	2.3
3	☐	1.000		9920836.24		A	1.0
4	☐	1.000		10078169.57		A	1.9
5	☐	1.000		9730314.37		A	0.9
6	☐	1.000		9763344.09		A	1.3
7	☐	1.000		9589241.73		A	1.6
8	☐	1.000		9383164.30		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10077773.95		A	0.4
2	☐	1.000		10319629.91		A	1.5
3	☐	1.000		10409059.01		A	0.2
4	☐	1.000		9927969.09		A	3.4
5	☐	1.000		10014761.86		A	0.6
6	☐	1.000		10227134.43		A	0.4
7	☐	1.000		9945895.13		A	1.3
8	☐	1.000		8252464.25		A	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7792539.95		A	1.2
2	☐	1.000		7923086.69		A	1.2
3	☐	1.000		7841697.80		A	0.4
4	☐	1.000		7805491.97		A	1.2
5	☐	1.000		7544877.18		A	0.9
6	☐	1.000		7454497.53		A	2.0
7	☐	1.000		7138127.46		A	1.3
8	☐	1.000		6366598.73		A	0.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7031522MS1.b
Acq. Date-Time 2022-03-15 14:55:34
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		18939	189391.98			0.513	5.000
24		126564	1265643.99			0.618	5.000
25		16506	165064.98			0.496	5.000
26		18339	183386.06			0.478	5.000
59		33298	332982.02			0.441	5.000
113		19225	192249.24			0.458	5.000
115		53725	537250.90			0.599	5.000
206		33971	339708.94			0.149	5.000
207		29484	294843.17			0.476	5.000
208		69832	698322.54			0.467	5.000
220		0	0.80			71.261	

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

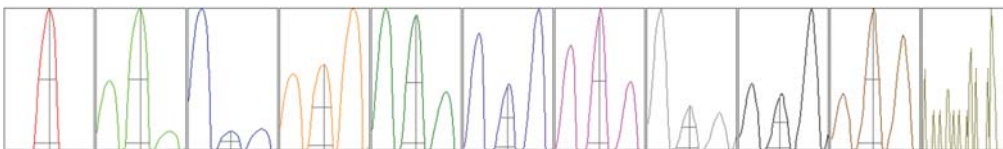
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	18826	18997	19058	18854	18961
24	125681	127361	127160	125786	126834
25	16436	16421	16611	16499	16565
26	18208	18306	18398	18348	18434
59	33137	33273	33463	33182	33436
113	19086	19225	19265	19326	19222
115	53207	53639	53899	53851	54029
206	33902	33999	34034	33973	33945
207	29284	29603	29605	29533	29397
208	69521	69719	69762	69773	70387

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	33835.63	9.05	8.90 - 9.10	
24	210225.80	24.00	23.90 - 24.10	
25	27040.17	24.95	24.90 - 25.10	
26	30489.45	26.00	25.90 - 26.10	
59	64922.51	59.00	58.90 - 59.10	
113	42053.39	113.00	112.90 - 113.10	
115	119998.63	115.00	114.90 - 115.10	
206	71953.99	205.95	205.90 - 206.10	
207	59278.66	206.90	206.90 - 207.10	
208	152853.89	207.95	207.90 - 208.10	
220	0.00	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.820	0.900	
24	0.64	0.791	0.900	
25	0.64	0.817	0.900	
26	0.64	0.826	0.900	
59	0.53	0.777	0.900	
113	0.45	0.683	0.900	
115	0.45	0.713	0.900	
206	0.48	0.764	0.900	
207	0.48	0.788	0.900	
208	0.47	0.805	0.900	
220	0.18	0.175		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.79 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	8.6 V	Deflect	13.6 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	160 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	1.0 mm
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EM

Discriminator	3.1 mV	Analog HV	2161 V	Pulse HV	1456 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11290	112896.47			0.256	
89		79497	794965.58			0.953	
205		70982	709823.80			0.232	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11298	11265	11271	11278	11337
89	80389	79702	78369	79817	79206
205	71106	70783	70842	71161	71019

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.79 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	8.7 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-110.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	122	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	1.0 mm
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EM

Discriminator	3.1 mV	Analog HV	2161 V	Pulse HV	1456 V
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