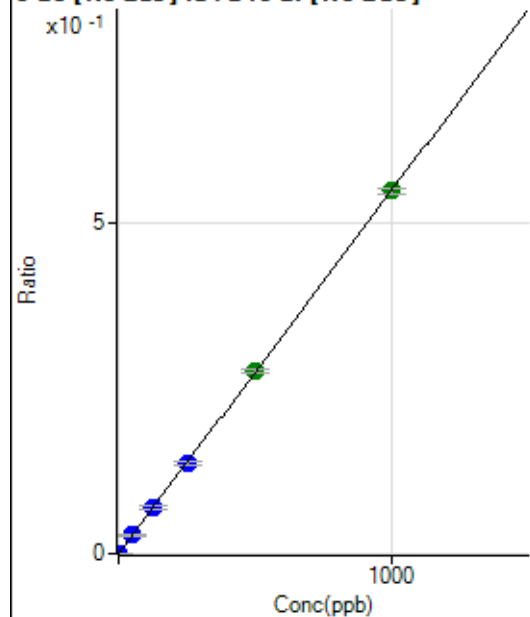


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7102622-MS.b\
 Analysis File: P7102622-MS.batch.bin
 DA Date-Time: 2022-10-26 15:26:48
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2022-10-26 14:24:39
2	005CALS.d	S02	2022-10-26 14:33:15
3	006CALS.d	S03	2022-10-26 14:36:08
4	007CALS.d	S04	2022-10-26 14:38:52
5	008CALS.d	S05	2022-10-26 14:41:38
6	009CALS.d	S06	2022-10-26 14:44:22
7	010CALS.d	S07	2022-10-26 14:47:08
8	011CALS.d	S08	2022-10-26 14:49:53

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.22	0.0000	P	15.5
2	☐	1.000	0.998	2389.09	0.0006	P	2.8
3	☐	50.000	50.554	114175.66	0.0278	P	1.8
4	☐	125.000	125.371	282023.55	0.0689	P	9.9
5	☐	250.000	247.310	557233.72	0.1359	P	4.6
6	☐	500.000	502.270	1114995.55	0.2759	A	2.4
7	☐	1000.000	999.463	2167101.34	0.5491	A	1.2
8	☐			792.25	0.0002	P	14.5

$$y = 5.4932\text{E-}004 * x + 4.2117\text{E-}005$$

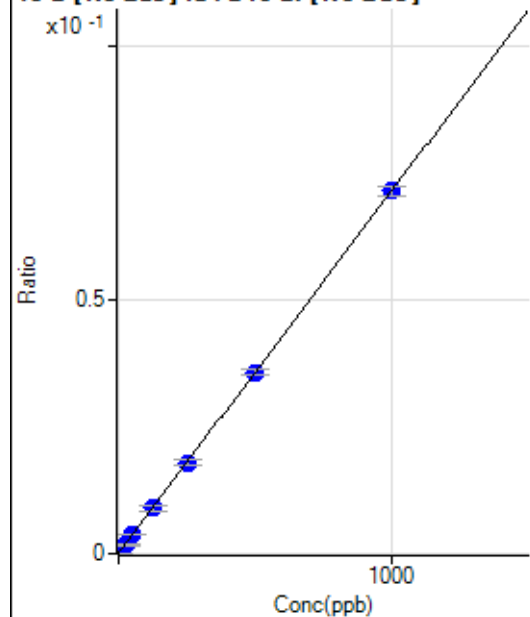
$$R = 1.0000$$

$$DL = 0.03574$$

$$BEC = 0.07667$$

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	372.24	0.0001	P	24.6
2	☐	25.000	22.868	6973.96	0.0017	P	5.5
3	☐	50.000	50.425	15146.63	0.0037	P	2.9
4	☐	125.000	123.793	36457.54	0.0089	P	12.9
5	☐	250.000	250.249	73532.46	0.0179	P	6.2
6	☐	500.000	499.418	144265.08	0.0357	P	3.6
7	☐	1000.000	1000.412	281967.18	0.0714	P	2.3
8	☐			8235.72	0.0021	P	7.9

$$y = 7.1321\text{E-}005 * x + 9.1327\text{E-}005$$

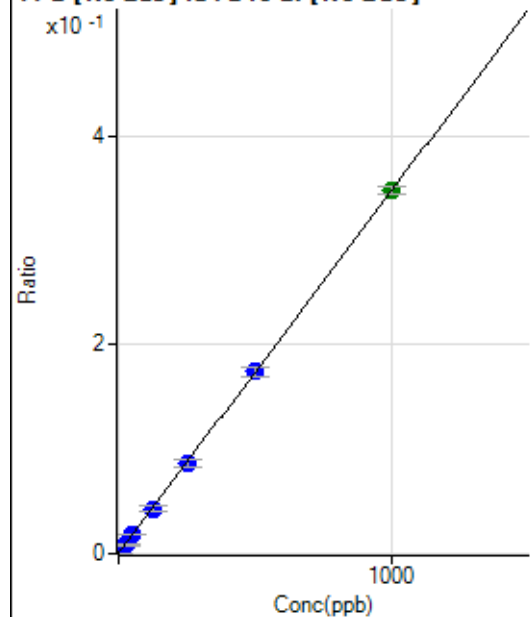
$$R = 1.0000$$

$$DL = 0.9442$$

$$BEC = 1.281$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1802.93	0.0004	P	12.4
2	☐	25.000	22.626	33584.19	0.0083	P	2.8
3	☐	50.000	50.826	74270.19	0.0181	P	5.4
4	☐	125.000	122.510	175544.54	0.0430	P	13.5
5	☐	250.000	249.564	356749.11	0.0871	P	8.4
6	☐	500.000	501.166	704471.79	0.1744	P	5.6
7	☐	1000.000	999.856	1371675.95	0.3475	A	2.2
8	☐			40253.03	0.0103	P	5.3

$$y = 3.4715E-004 * x + 4.4104E-004$$

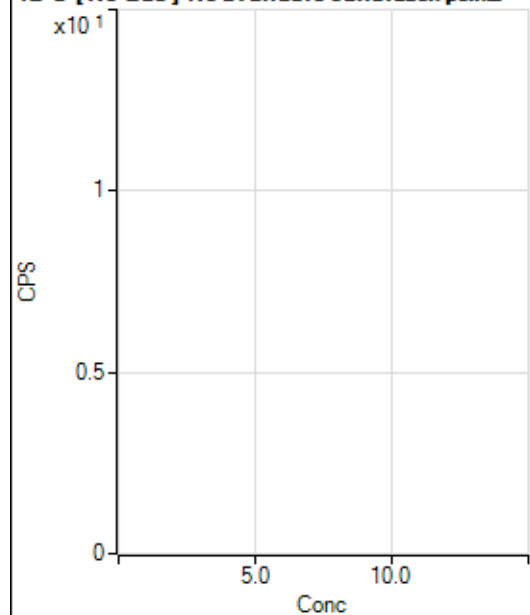
$$R = 1.0000$$

$$DL = 0.4738$$

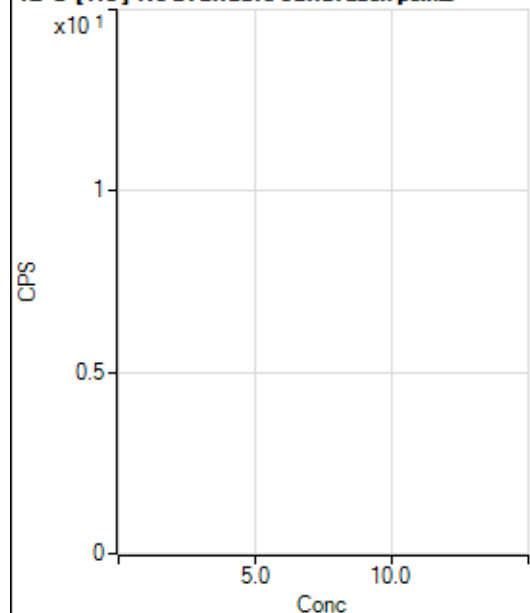
$$BEC = 1.27$$

Weight: <None>

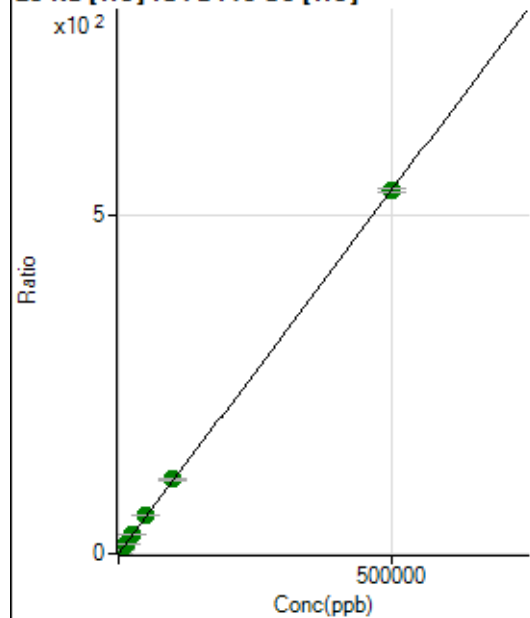
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j 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	29541.51	0.0415	P	1.9
2	☐	500.000	493.025	404729.46	0.5719	P	0.6
3	☐	5000.000	5406.932	4062896.07	5.8582	A	1.4
4	☐	12500.000	13278.140	9876401.84	14.3258	A	0.2
5	☐	25000.000	26766.030	20062925.68	28.8359	A	0.4
6	☐	50000.000	51707.271	39679861.54	55.6672	A	0.4
7	☐	100000.00	102159.04	78275418.42	109.9422	A	1.1
8	☐	500000.00	499285.64	381522527.0	537.1634	A	1.0

$$y = 0.0011 * x + 0.0415$$

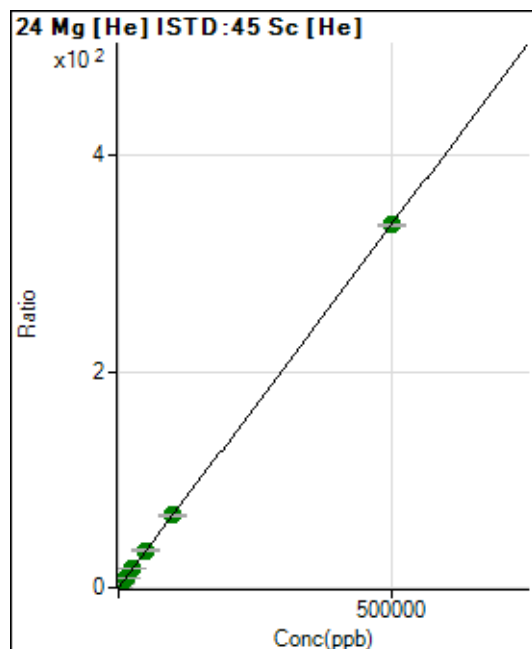
$$R = 1.0000$$

$$DL = 2.159$$

$$BEC = 38.56$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	757.44	0.0011	P	8.2
2	☐	500.000	483.277	230564.25	0.3258	P	0.6
3	☐	5000.000	5454.643	2542705.21	3.6660	A	0.9
4	☐	12500.000	13072.262	6055930.52	8.7843	A	0.3
5	☐	25000.000	26415.930	12349744.61	17.7498	A	1.0
6	☐	50000.000	51539.347	24684461.20	34.6301	A	0.5
7	☐	100000.00	99893.205	47787036.72	67.1188	A	1.8
8	☐	500000.00	499777.79	238509096.0	335.7993	A	0.7

$$y = 6.7190\text{E-}004 * x + 0.0011$$

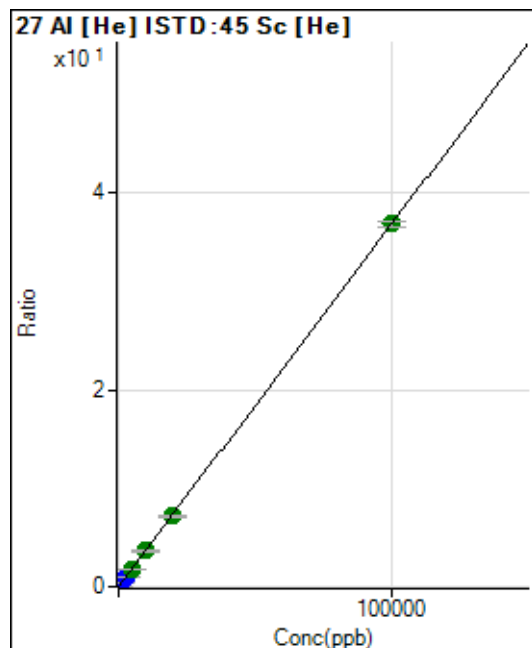
$$R = 1.0000$$

$$DL = 0.3905$$

$$BEC = 1.583$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.04	0.0003	P	3.1
2	☐	20.000	19.090	5160.20	0.0073	P	1.9
3	☐	1000.000	1016.137	259672.55	0.3744	P	0.6
4	☐	2500.000	2490.367	632296.11	0.9172	P	0.5
5	☐	5000.000	5023.397	1287009.01	1.8498	A	0.7
6	☐	10000.000	9846.732	2584444.30	3.6257	A	1.0
7	☐	20000.000	19445.229	5097428.36	7.1596	A	1.0
8	☐	100000.00	100125.19	26183168.87	36.8645	A	1.5

$$y = 3.6818\text{E-}004 * x + 2.6261\text{E-}004$$

$$R = 1.0000$$

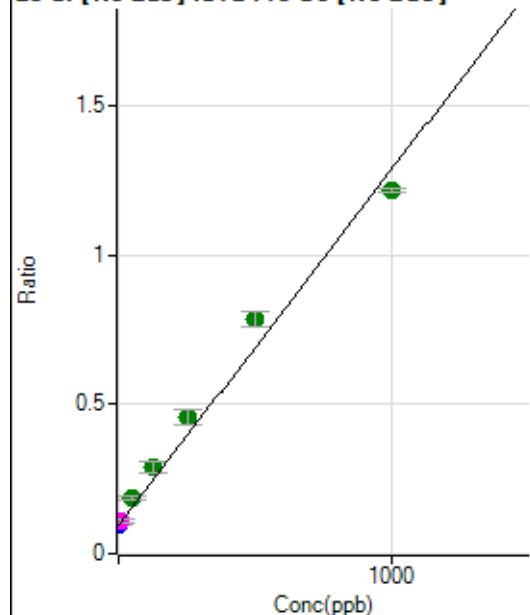
$$DL = 0.06716$$

$$BEC = 0.7133$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	888181.81	0.0952	P	1.8
2	☐	10.000	13.069	1023130.35	0.1108	M	9.5
3	☐	50.000	78.017	1733286.95	0.1883	A	6.1
4	☐	125.000	162.733	2635029.14	0.2894	A	14.8
5	☐	250.000	303.023	4244539.64	0.4568	A	10.6
6	☐	500.000	580.986	7302941.14	0.7885	A	6.6
7	☐	1000.000	940.103	11207899.55	1.2170	A	1.0
8	☐			1600527.51	0.1719	A	5.1

$$y = 0.0012 * x + 0.0952$$

R = 0.9929

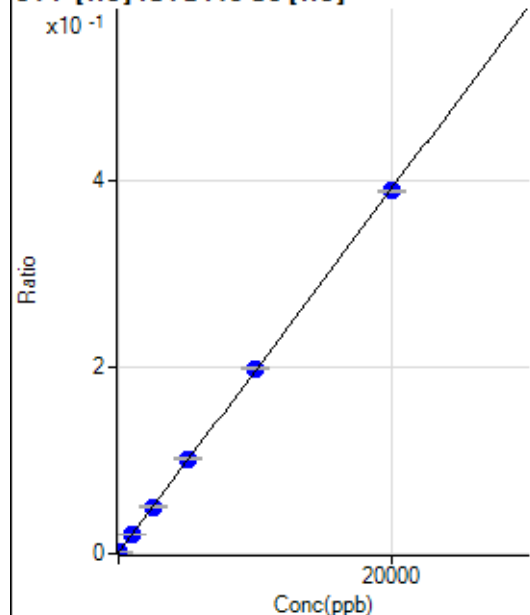
DL = 4.318

BEC = 79.78

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-6.078	597.25	0.0008	P	8.5
2	☐	0.000	6.078	761.15	0.0011	P	1.2
3	☐	1000.000	1025.870	14535.04	0.0210	P	3.3
4	☐	2500.000	2539.804	34790.11	0.0505	P	1.6
5	☐	5000.000	5172.182	70808.80	0.1018	P	2.1
6	☐	10000.000	10124.795	141354.27	0.1983	P	0.8
7	☐	20000.000	19888.288	276688.05	0.3886	P	0.2
8	☐			636.14	0.0009	P	10.2

$$y = 1.9492E-005 * x + 9.5704E-004$$

R = 0.9999

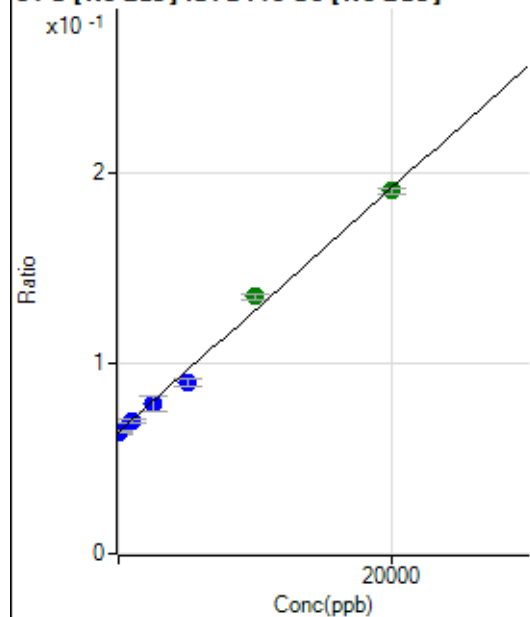
DL = 6.424

BEC = 49.1

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	-64.862	592119.03	0.0635	P	1.5
2	☐	0.000	64.862	593613.52	0.0643	P	1.0
3	☐	1000.000	945.416	644169.17	0.0699	P	2.8
4	☐	2500.000	2329.661	719982.36	0.0788	P	9.8
5	☐	5000.000	4029.830	834951.25	0.0897	P	4.2
6	☐	10000.000	11054.570	1248138.79	0.1347	A	2.4
7	☐	20000.000	19739.279	1752631.25	0.1903	A	1.4
8	☐			526018.37	0.0565	P	3.6

$$y = 6.4053E-006 * x + 0.0639$$

$$R = 0.9967$$

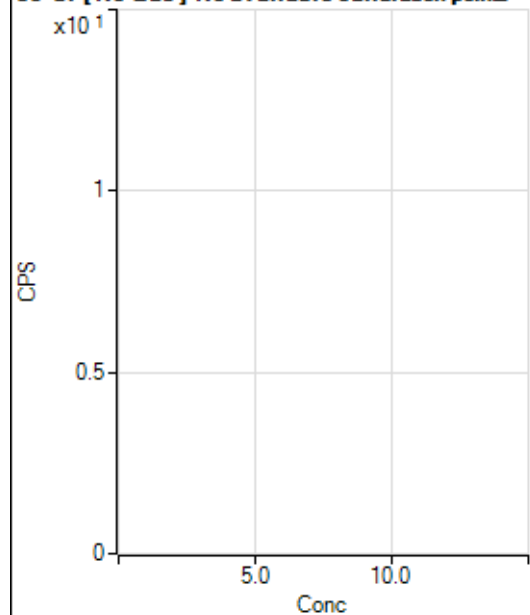
$$DL = 374.6$$

$$BEC = 9973$$

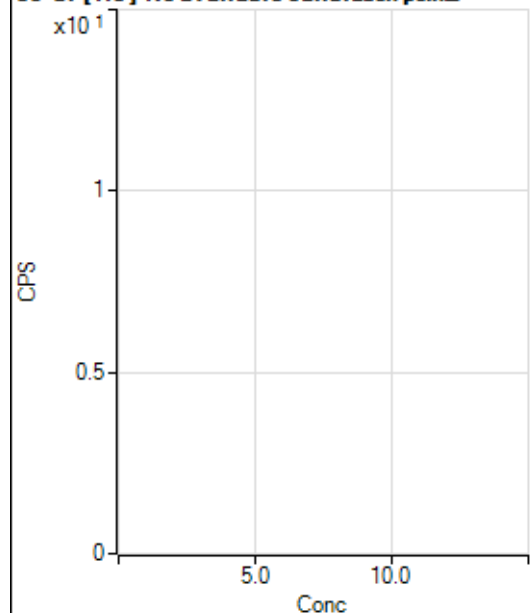
Weight: <None>

Min Conc: 0

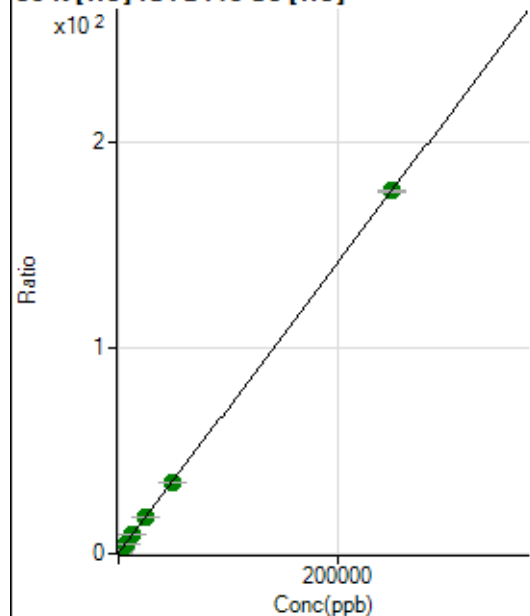
35 Cl [No Gas] No available calibration points



	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	112550.29	0.1580	P	1.1
2	☐	500.000	499.985	361065.55	0.5102	P	0.7
3	☐	2500.000	2569.535	1364921.30	1.9677	A	0.6
4	☐	6250.000	6298.149	3166849.59	4.5937	A	0.8
5	☐	12500.000	12625.630	6296652.88	9.0500	A	1.5
6	☐	25000.000	24836.636	12581130.05	17.6499	A	0.4
7	☐	50000.000	49151.094	24758438.05	34.7741	A	0.2
8	☐	250000.00	250177.93	125257715.3	176.3529	A	0.7

$$y = 7.0428\text{E-}004 * x + 0.1580$$

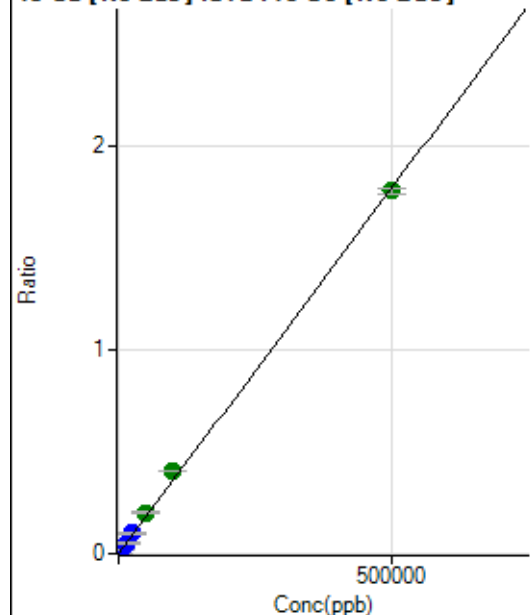
$$R = 1.0000$$

$$DL = 7.414$$

$$BEC = 224.4$$

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	266.68	0.0000	P	3.7
2	☐	500.000	481.564	16206.21	0.0018	P	1.5
3	☐	5000.000	5860.638	193718.18	0.0210	P	5.7
4	☐	12500.000	14436.163	472472.63	0.0518	P	12.0
5	☐	25000.000	28228.019	941963.18	0.1012	P	6.3
6	☐	50000.000	56255.331	1869535.87	0.2017	A	2.4
7	☐	100000.00	112879.01	3727673.87	0.4048	A	1.7
8	☐	500000.00	496580.27	16584397.07	1.7807	A	1.5

$$y = 3.5858\text{E-}006 * x + 2.8584\text{E-}005$$

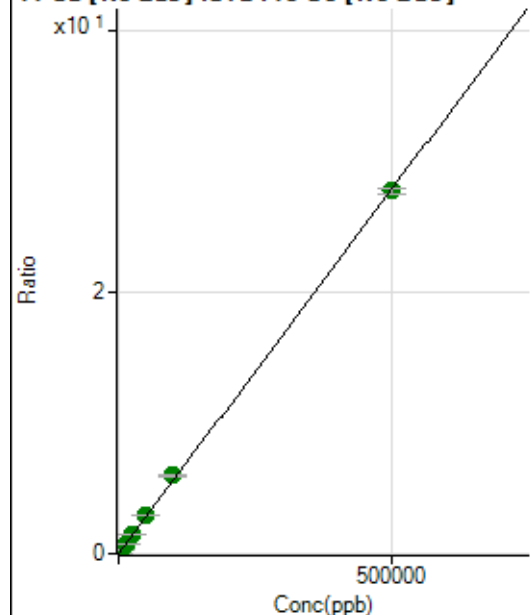
$$R = 0.9996$$

$$DL = 0.873$$

$$BEC = 7.972$$

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	11260.12	0.0012	P	1.6
2	☐	500.000	489.755	263397.15	0.0285	P	0.8
3	☐	5000.000	5438.439	2805429.16	0.3046	A	3.1
4	☐	12500.000	13303.684	6784207.96	0.7434	A	11.4
5	☐	25000.000	26127.067	13574247.18	1.4587	A	5.5
6	☐	50000.000	53035.853	27420507.56	2.9599	A	4.0
7	☐	100000.00	107164.48	55066499.15	5.9795	A	1.2
8	☐	500000.00	498182.69	258851066.8	27.7930	A	1.5

$$y = 5.5786\text{E-}005 * x + 0.0012$$

$$R = 0.9999$$

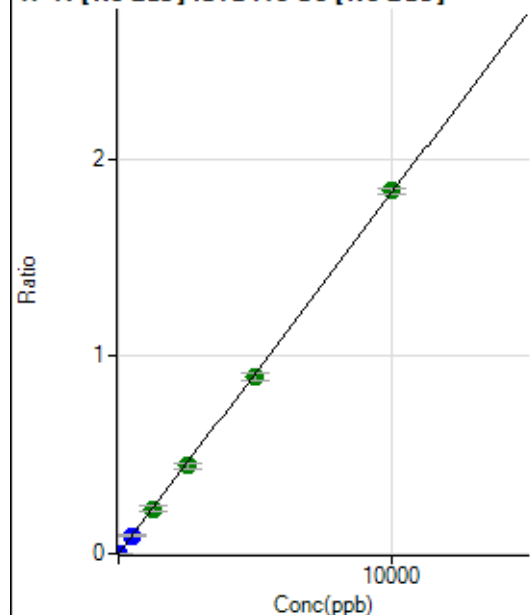
$$DL = 1.056$$

$$BEC = 21.63$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	197.23	0.0000	P	15.2
2	☐	5.000	4.260	7388.10	0.0008	P	2.4
3	☐	500.000	499.789	842022.80	0.0914	P	3.1
4	☐	1250.000	1245.176	2077900.40	0.2277	A	11.7
5	☐	2500.000	2426.450	4130800.70	0.4438	A	4.4
6	☐	5000.000	4917.172	8331437.95	0.8993	A	3.9
7	☐	10000.000	10060.416	16943240.14	1.8399	A	1.9
8	☐			3853.36	0.0004	P	7.5

$$y = 1.8288\text{E-}004 * x + 2.1144\text{E-}005$$

$$R = 0.9999$$

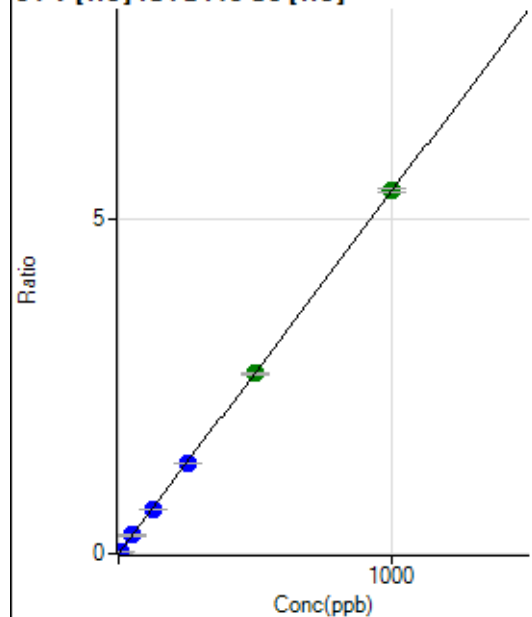
$$DL = 0.05274$$

$$BEC = 0.1156$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	48.2
2	☐	5.000	4.720	18138.77	0.0256	P	1.0
3	☐	50.000	50.489	189873.64	0.2738	P	0.4
4	☐	125.000	124.304	464608.03	0.6739	P	0.1
5	☐	250.000	250.259	943977.48	1.3568	P	0.6
6	☐	500.000	496.903	1920278.81	2.6939	A	1.3
7	☐	1000.000	1001.548	3865969.15	5.4297	A	1.1
8	☐			1662.33	0.0023	P	4.4

$$y = 0.0054 * x + 3.8965\text{E-}005$$

$$R = 1.0000$$

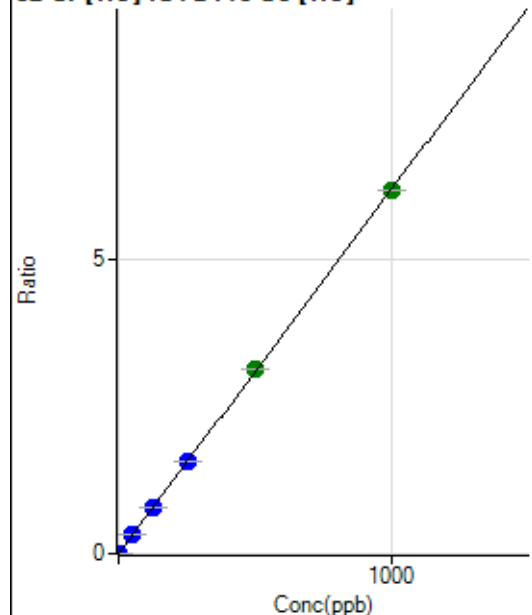
$$DL = 0.01038$$

$$BEC = 0.007187$$

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	1331.18	0.0019	P	2.5
2	☐	2.000	1.836	9382.99	0.0133	P	1.5
3	☐	50.000	51.312	222053.75	0.3201	P	0.5
4	☐	125.000	126.087	540466.60	0.7840	P	0.4
5	☐	250.000	253.964	1097318.15	1.5772	P	0.8
6	☐	500.000	505.947	2238341.91	3.1402	A	0.2
7	☐	1000.000	995.834	4399227.81	6.1789	A	0.1
8	☐			36445.05	0.0513	P	1.1

$$y = 0.0062 * x + 0.0019$$

$$R = 1.0000$$

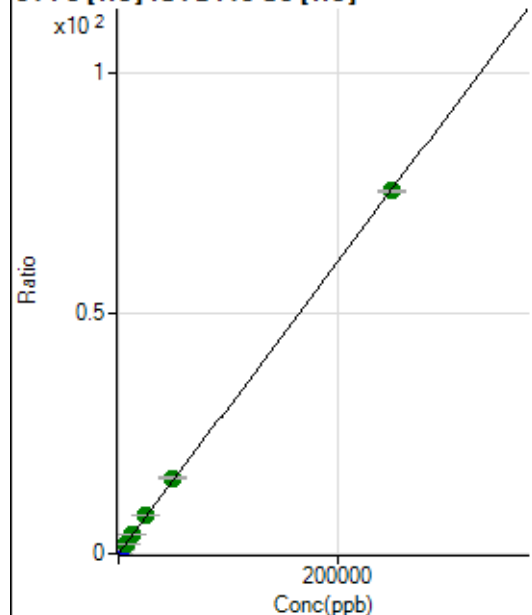
$$DL = 0.02279$$

$$BEC = 0.3013$$

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	2018.89	0.0028	P	2.1
2	☐	50.000	52.101	13179.31	0.0186	P	1.9
3	☐	2500.000	2785.809	587466.02	0.8470	P	1.0
4	☐	6250.000	6626.250	1386284.15	2.0108	A	0.3
5	☐	12500.000	13407.043	2828719.43	4.0657	A	0.8
6	☐	25000.000	26324.669	5688438.44	7.9802	A	0.9
7	☐	50000.000	52199.313	11264254.06	15.8211	A	0.3
8	☐	250000.00	249370.05	53674882.99	75.5709	A	0.8

$$y = 3.0304E-004 * x + 0.0028$$

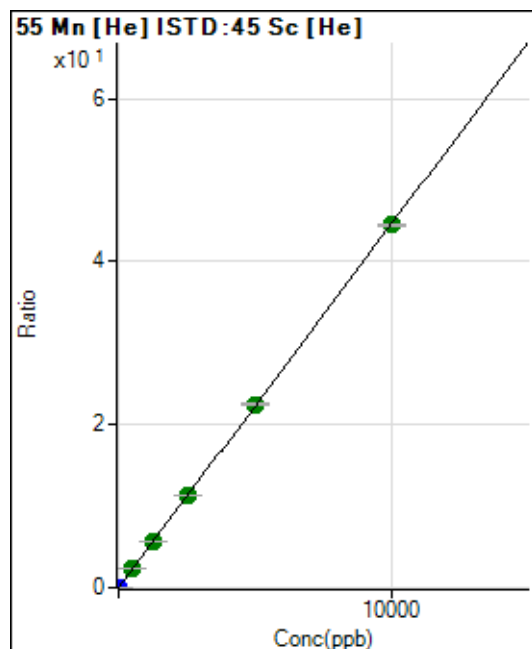
$$R = 1.0000$$

$$DL = 0.5936$$

$$BEC = 9.355$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	292.23	0.0004	P	5.8
2	☐	1.000	1.041	3579.35	0.0051	P	0.9
3	☐	500.000	518.543	1605375.88	2.3144	A	0.5
4	☐	1250.000	1264.384	3889942.65	5.6426	A	1.3
5	☐	2500.000	2535.071	7871055.23	11.3130	A	0.8
6	☐	5000.000	5031.466	16004750.18	22.4529	A	1.2
7	☐	10000.000	9972.774	31685028.97	44.5031	A	0.4
8	☐			45041.64	0.0634	P	0.6

$$y = 0.0045 * x + 4.1038E-004$$

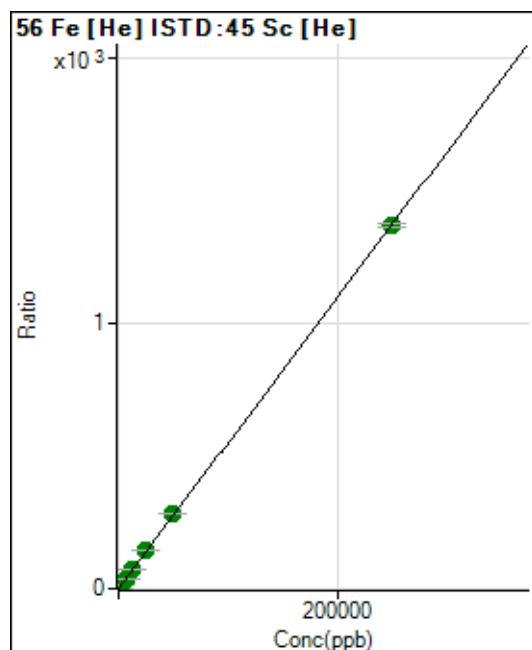
$$R = 1.0000$$

$$DL = 0.01593$$

$$BEC = 0.09196$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15369.16	0.0216	P	0.5
2	☐	50.000	49.549	207454.12	0.2931	P	1.4
3	☐	2500.000	2667.980	10156400.46	14.6431	A	1.0
4	☐	6250.000	6569.673	24835840.14	36.0258	A	1.0
5	☐	12500.000	13209.866	50384070.57	72.4164	A	1.6
6	☐	25000.000	26023.410	101674217.0	142.6393	A	0.9
7	☐	50000.000	51431.004	200692474.8	281.8822	A	0.7
8	☐	250000.00	249566.29	971446103.2	1,367.735	A	1.0

$$y = 0.0055 * x + 0.0216$$

$$R = 1.0000$$

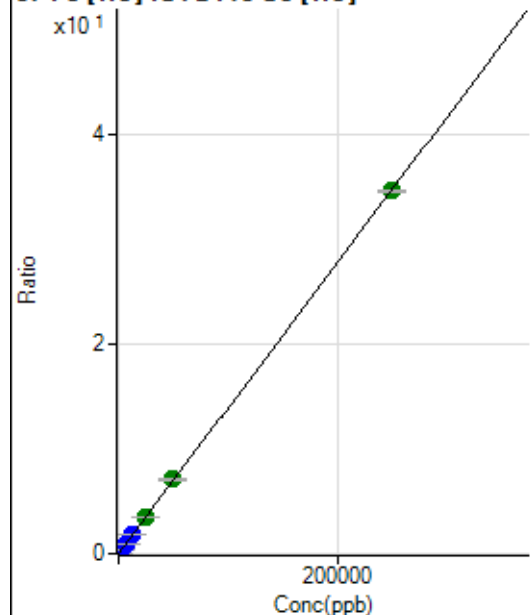
$$DL = 0.05716$$

$$BEC = 3.938$$

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	1000.05	0.0014	P	7.4
2	☐	50.000	51.739	6060.59	0.0086	P	2.5
3	☐	2500.000	2685.973	258762.89	0.3731	P	0.9
4	☐	6250.000	6588.119	629455.27	0.9130	P	0.5
5	☐	12500.000	13133.985	1265486.66	1.8188	P	1.1
6	☐	25000.000	25664.538	2532485.04	3.5528	A	0.5
7	☐	50000.000	50966.481	5022251.62	7.0540	A	0.9
8	☐	250000.00	249698.23	24542697.54	34.5539	A	0.2

$$y = 1.3838\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

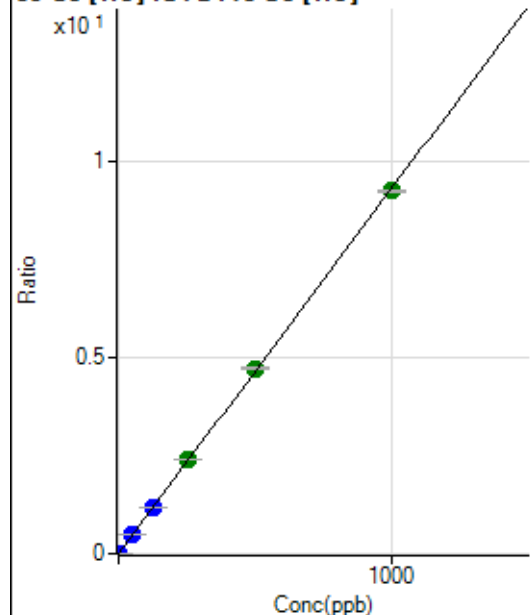
$$DL = 2.247$$

$$BEC = 10.15$$

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	161.11	0.0002	P	7.7
2	☐	1.000	0.993	6702.66	0.0095	P	3.1
3	☐	50.000	51.727	334203.48	0.4818	P	0.2
4	☐	125.000	127.213	816693.17	1.1846	P	0.6
5	☐	250.000	256.706	1663084.23	2.3903	A	0.9
6	☐	500.000	508.266	3373265.99	4.7325	A	0.9
7	☐	1000.000	993.828	6588121.08	9.2533	A	0.3
8	☐			7666.47	0.0108	P	1.5

$$y = 0.0093 * x + 2.2626\text{E-}004$$

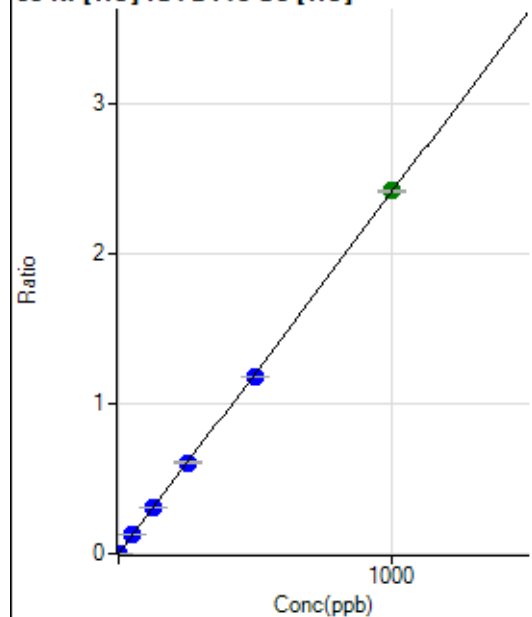
$$R = 0.9999$$

$$DL = 0.005578$$

$$BEC = 0.0243$$

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	328.90	0.0005	P	7.5
2	☐	1.000	0.996	2022.38	0.0029	P	1.4
3	☐	50.000	52.088	87256.53	0.1258	P	0.8
4	☐	125.000	126.419	210022.27	0.3046	P	0.4
5	☐	250.000	252.784	423506.23	0.6087	P	0.6
6	☐	500.000	488.742	838583.05	1.1765	P	0.3
7	☐	1000.000	1004.651	1721416.95	2.4178	A	0.4
8	☐			9465.27	0.0133	P	1.5

$$y = 0.0024 * x + 4.6182E-004$$

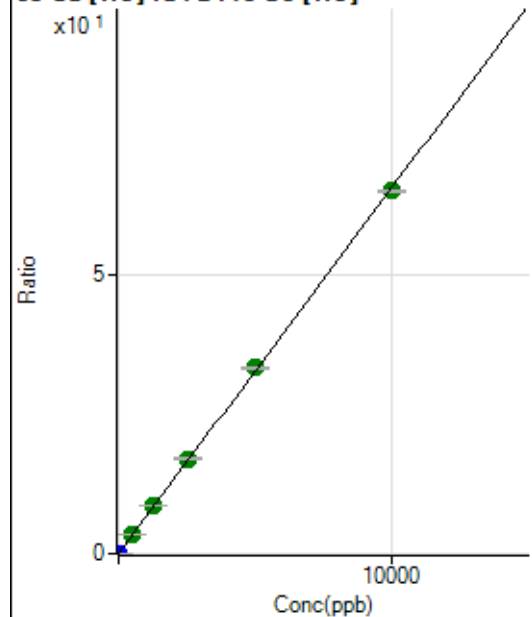
$$R = 0.9999$$

$$DL = 0.04311$$

$$BEC = 0.1919$$

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	1742.34	0.0024	P	1.3
2	☐	2.000	1.956	10776.18	0.0152	P	1.2
3	☐	500.000	538.212	2441189.50	3.5195	A	0.5
4	☐	1250.000	1301.058	5863082.97	8.5044	A	0.5
5	☐	2500.000	2601.427	11829275.24	17.0019	A	0.5
6	☐	5000.000	5081.292	23670405.20	33.2071	A	0.2
7	☐	10000.000	9925.704	46181469.31	64.8638	A	0.9
8	☐			16889.61	0.0238	P	1.7

$$y = 0.0065 * x + 0.0024$$

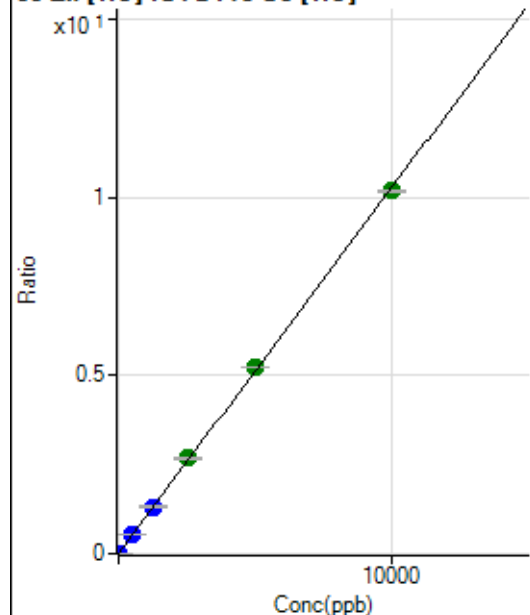
$$R = 0.9999$$

$$DL = 0.01413$$

$$BEC = 0.3744$$

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	1505.65	0.0021	P	9.0
2	☐	2.000	2.017	2962.55	0.0042	P	5.0
3	☐	500.000	525.006	375388.04	0.5413	P	0.9
4	☐	1250.000	1284.538	910855.65	1.3212	P	0.5
5	☐	2500.000	2610.503	1866711.48	2.6829	A	1.3
6	☐	5000.000	5096.472	3732149.74	5.2358	A	0.3
7	☐	10000.000	9918.571	7253303.92	10.1877	A	0.8
8	☐			12401.90	0.0175	P	1.7

$$y = 0.0010 * x + 0.0021$$

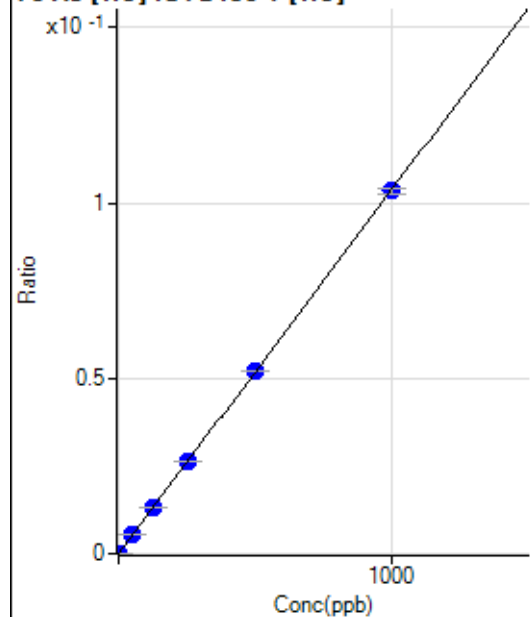
$$R = 0.9999$$

$$DL = 0.5563$$

$$BEC = 2.059$$

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	12.96	0.0000	P	14.3
2	☐	1.000	0.960	475.32	0.0001	P	4.6
3	☐	50.000	50.833	24511.59	0.0053	P	0.5
4	☐	125.000	125.360	59329.49	0.0130	P	0.4
5	☐	250.000	253.876	121363.17	0.0263	P	0.3
6	☐	500.000	502.634	247219.95	0.0521	P	0.3
7	☐	1000.000	997.628	493854.11	0.1035	P	1.4
8	☐			290.75	0.0001	P	6.8

$$y = 1.0370E-004 * x + 2.7682E-006$$

$$R = 1.0000$$

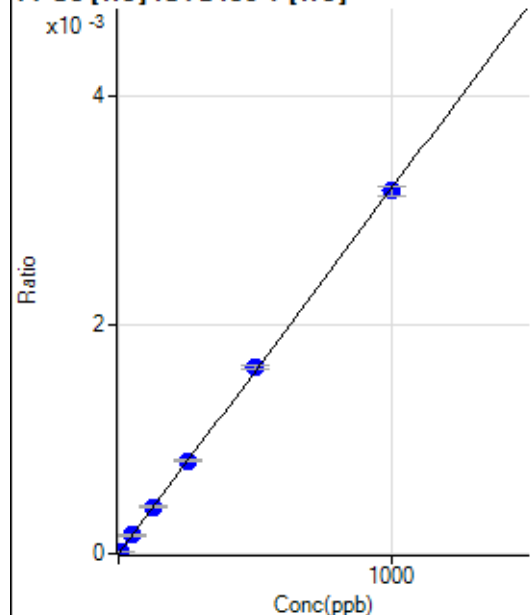
$$DL = 0.01148$$

$$BEC = 0.02669$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.582	67.78	0.0000	P	46.5
3	☐	50.000	50.502	748.91	0.0002	P	6.0
4	☐	125.000	128.065	1865.69	0.0004	P	3.7
5	☐	250.000	254.310	3742.73	0.0008	P	1.5
6	☐	500.000	510.021	7723.19	0.0016	P	1.8
7	☐	1000.000	993.506	15142.29	0.0032	P	2.6
8	☐			2.22	0.0000	P	86.6

$$y = 3.1928\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

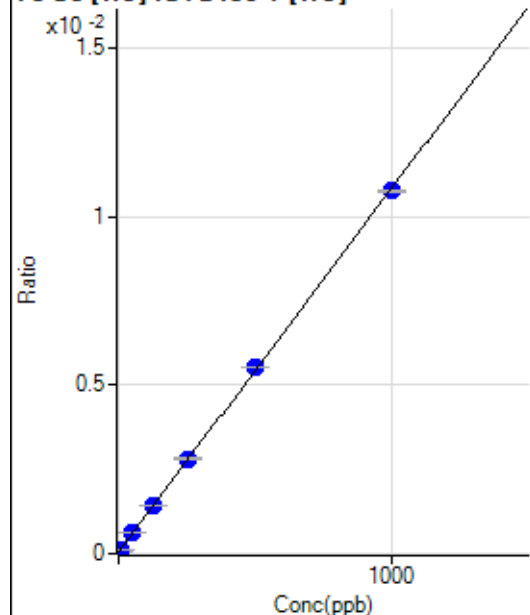
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	219.14	0.0000	P	10.5
2	☐	5.000	4.558	445.69	0.0001	P	5.7
3	☐	50.000	51.579	2800.90	0.0006	P	0.8
4	☐	125.000	127.552	6485.40	0.0014	P	1.2
5	☐	250.000	256.326	12947.04	0.0028	P	2.0
6	☐	500.000	508.634	26217.56	0.0055	P	0.1
7	☐	1000.000	993.706	51347.07	0.0108	P	0.3
8	☐			225.93	0.0000	P	9.5

$$y = 1.0776\text{E-}005 * x + 4.6803\text{E-}005$$

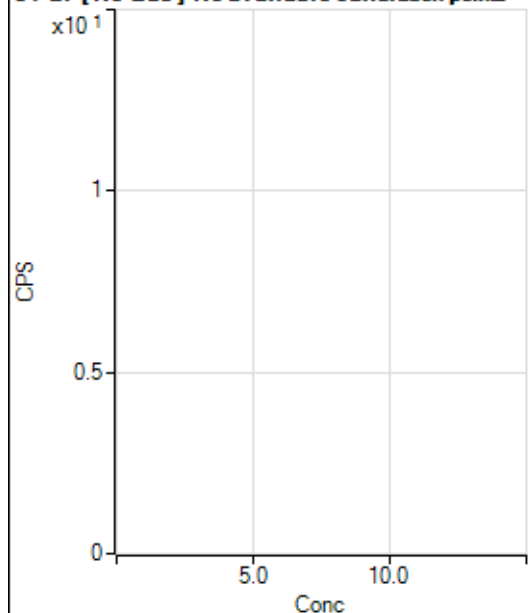
$$R = 0.9999$$

$$DL = 1.371$$

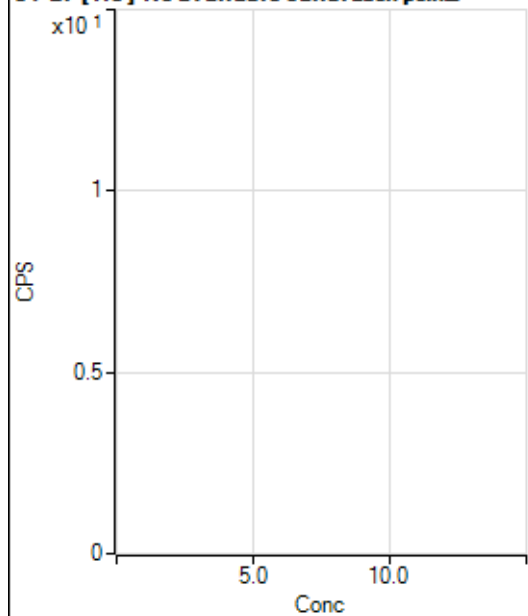
$$BEC = 4.343$$

Weight: <None>

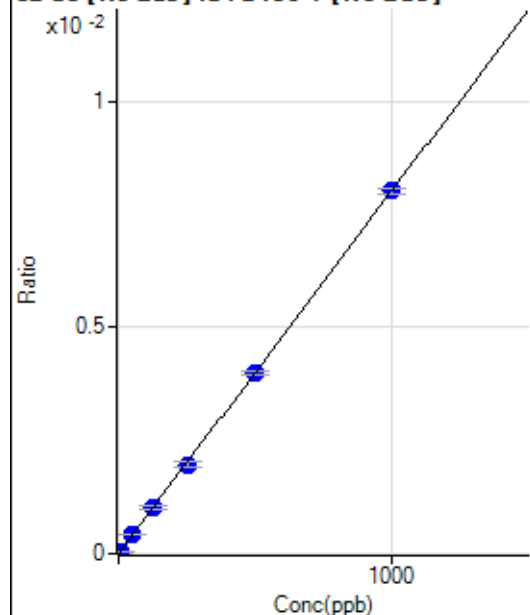
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20806.88		P	3.3
2	☐			20745.78		P	2.1
3	☐			20364.66		P	1.5
4	☐			19699.75		P	0.3
5	☐			20180.91		P	1.6
6	☐			20703.80		P	3.5
7	☐			21463.32		P	1.6
8	☐			20575.95		P	3.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.71		P	68.9
2	☐			60.06		P	16.7
3	☐			76.74		P	27.2
4	☐			70.07		P	28.6
5	☐			53.39		P	28.6
6	☐			73.41		P	20.8
7	☐			103.44		P	11.2
8	☐			90.09		P	19.2

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.37	0.0000	P	136.
2	☐	5.000	4.681	795.30	0.0000	P	7.4
3	☐	50.000	51.501	8375.15	0.0004	P	1.8
4	☐	125.000	127.089	20457.97	0.0010	P	12.0
5	☐	250.000	246.036	41195.60	0.0020	P	5.6
6	☐	500.000	499.044	82981.15	0.0040	P	2.5
7	☐	1000.000	1001.135	165384.77	0.0080	P	1.3
8	☐			152.72	0.0000	P	32.7

$$y = 8.0131E-006 * x + 1.6349E-006$$

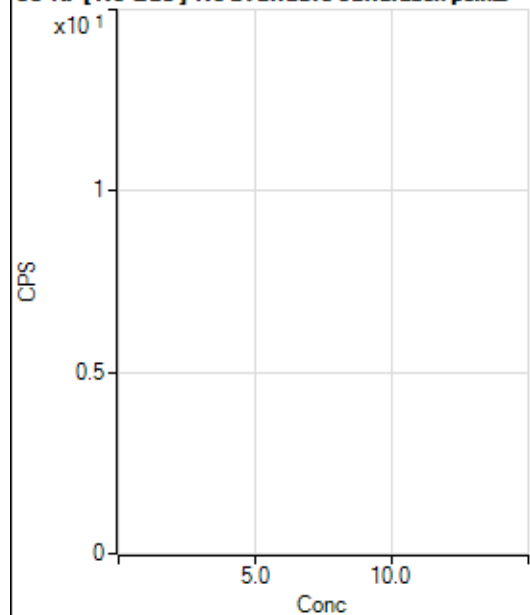
$$R = 1.0000$$

$$DL = 0.836$$

$$BEC = 0.204$$

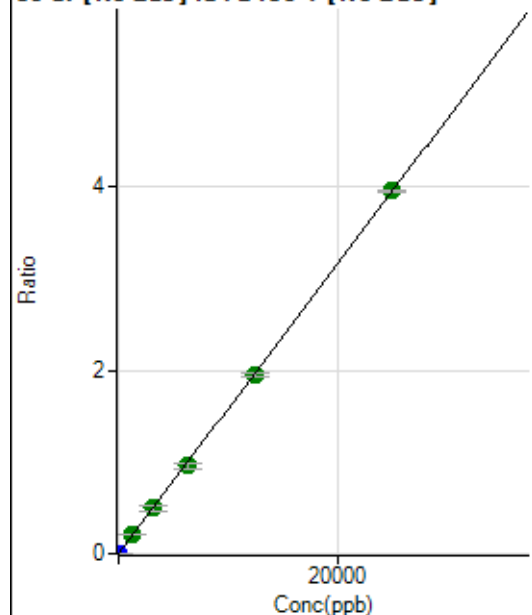
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			230.00		P	18.5
2	☐			238.89		P	4.3
3	☐			238.89		P	17.7
4	☐			217.78		P	2.3
5	☐			258.89		P	15.1
6	☐			241.11		P	7.9
7	☐			253.34		P	18.4
8	☐			274.45		P	7.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	516.69	0.0000	P	7.1
2	☐	1.000	0.907	3417.15	0.0002	P	3.6
3	☐	1250.000	1273.342	4056624.61	0.2007	A	1.4
4	☐	3125.000	3140.244	9926289.63	0.4948	A	11.8
5	☐	6250.000	6090.652	20034743.50	0.9597	A	6.2
6	☐	12500.000	12394.961	40511920.69	1.9531	A	2.7
7	☐	25000.000	25089.284	81493941.41	3.9534	A	0.5
8	☐			27387.12	0.0014	P	1.7

$$y = 1.5757E-004 * x + 2.5274E-005$$

R = 1.0000

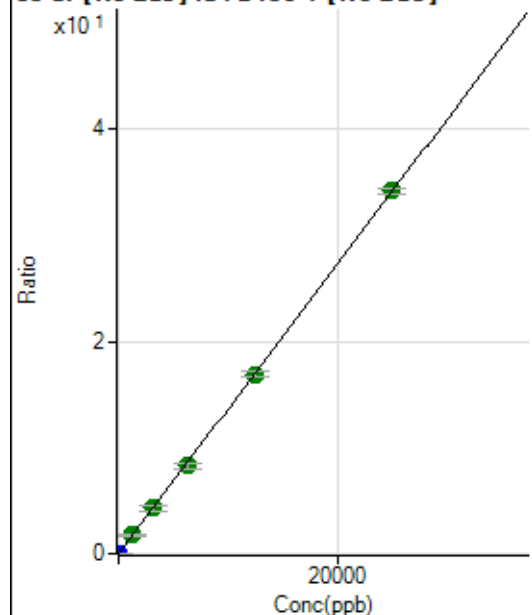
DL = 0.03395

BEC = 0.1604

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1313.99	0.0001	P	5.0
2	☐	1.000	0.906	26399.34	0.0013	P	3.3
3	☐	1250.000	1265.709	34891340.02	1.7261	A	2.9
4	☐	3125.000	3151.056	86216013.73	4.2972	A	11.5
5	☐	6250.000	6069.972	172814087.2	8.2777	A	5.8
6	☐	12500.000	12393.530	350540641.1	16.9012	A	3.2
7	☐	25000.000	25094.200	705370337.9	34.2211	A	1.3
8	☐			232318.08	0.0115	P	2.7

$$y = 0.0014 * x + 6.4238E-005$$

R = 1.0000

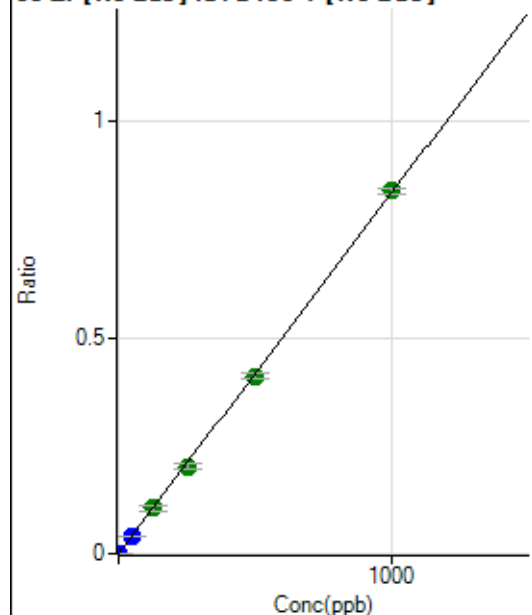
DL = 0.007116

BEC = 0.04711

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	919.49	0.0000	P	6.1
2	☐	1.000	0.911	16348.38	0.0008	P	1.1
3	☐	50.000	49.847	841177.18	0.0416	P	2.4
4	☐	125.000	125.767	2103290.52	0.1049	A	12.9
5	☐	250.000	242.497	4222207.34	0.2023	A	6.5
6	☐	500.000	491.870	8509238.73	0.4102	A	2.8
7	☐	1000.000	1005.853	17291427.99	0.8389	A	1.5
8	☐			8619.37	0.0004	P	2.3

$$y = 8.3396\text{E-}004 * x + 4.4984\text{E-}005$$

$$R = 0.9999$$

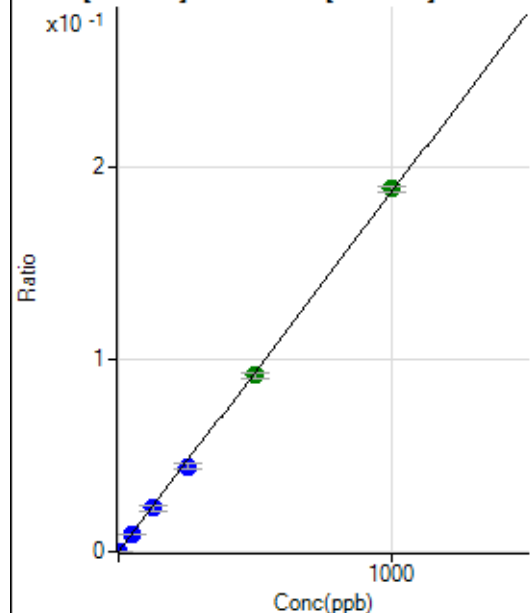
$$DL = 0.009812$$

$$BEC = 0.05394$$

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	175.01	0.0000	P	35.3
2	☐	1.000	0.868	3478.29	0.0002	P	1.1
3	☐	50.000	49.535	187751.60	0.0093	P	1.9
4	☐	125.000	121.372	456200.91	0.0227	P	12.0
5	☐	250.000	236.904	926498.19	0.0444	P	6.6
6	☐	500.000	489.639	1902648.59	0.0917	A	3.2
7	☐	1000.000	1008.931	3895881.21	0.1890	A	1.6
8	☐			1839.06	0.0001	P	5.3

$$y = 1.8734\text{E-}004 * x + 8.5473\text{E-}006$$

$$R = 0.9998$$

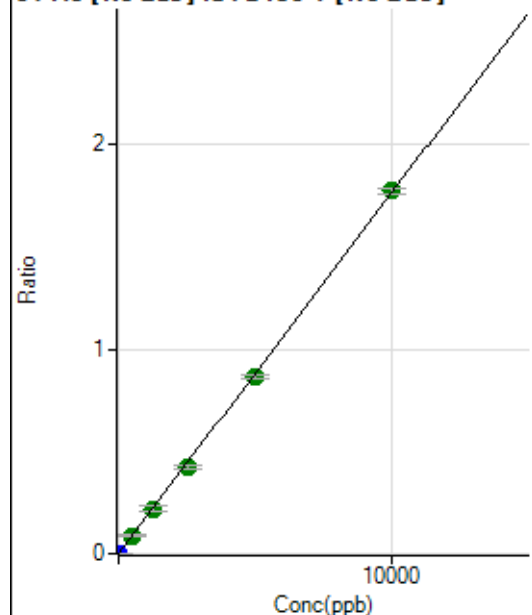
$$DL = 0.04833$$

$$BEC = 0.04563$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	375.02	0.0000	P	17.1
2	☐	5.000	5.065	18517.74	0.0009	P	2.3
3	☐	500.000	504.419	1798587.43	0.0890	A	2.0
4	☐	1250.000	1245.600	4406839.51	0.2197	A	11.8
5	☐	2500.000	2402.904	8848645.77	0.4238	A	5.5
6	☐	5000.000	4918.163	17991896.58	0.8674	A	2.5
7	☐	10000.000	10065.522	36590215.40	1.7752	A	1.6
8	☐			13264.73	0.0007	P	4.8

$$y = 1.7636\text{E-}004 * x + 1.8361\text{E-}005$$

$$R = 0.9999$$

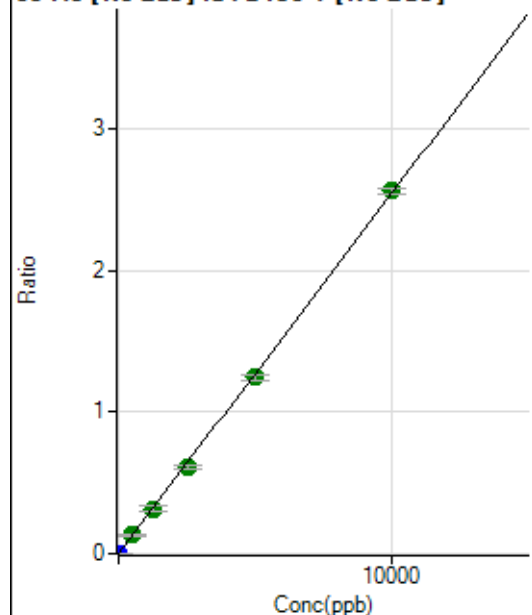
$$DL = 0.05354$$

$$BEC = 0.1041$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	175.01	0.0000	P	19.6
2	☐	5.000	4.274	22228.34	0.0011	P	2.4
3	☐	500.000	508.164	2609564.10	0.1291	A	3.3
4	☐	1250.000	1241.025	6326016.20	0.3153	A	11.4
5	☐	2500.000	2406.605	12766632.58	0.6114	A	5.2
6	☐	5000.000	4893.881	25787550.40	1.2433	A	3.0
7	☐	10000.000	10077.123	52765867.15	2.5601	A	1.7
8	☐			17166.03	0.0008	P	6.5

$$y = 2.5405\text{E-}004 * x + 8.5658\text{E-}006$$

$$R = 0.9999$$

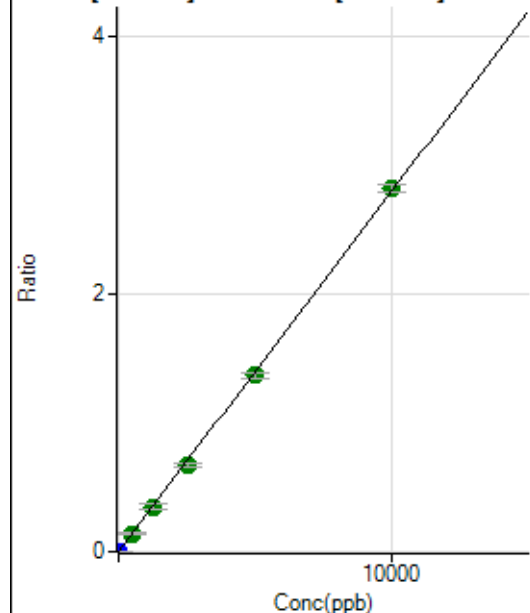
$$DL = 0.01984$$

$$BEC = 0.03372$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.45	0.0000	P	15.1
2	☐	5.000	4.445	25461.60	0.0013	P	0.5
3	☐	500.000	506.946	2862461.76	0.1416	A	3.2
4	☐	1250.000	1248.935	6997743.04	0.3489	A	12.0
5	☐	2500.000	2410.326	14057725.40	0.6733	A	5.5
6	☐	5000.000	4899.671	28388218.00	1.3687	A	2.9
7	☐	10000.000	10072.369	57988890.88	2.8136	A	2.0
8	☐			25929.12	0.0013	P	2.2

$$y = 2.7934\text{E-}004 * x + 1.1941\text{E-}005$$

$$R = 0.9999$$

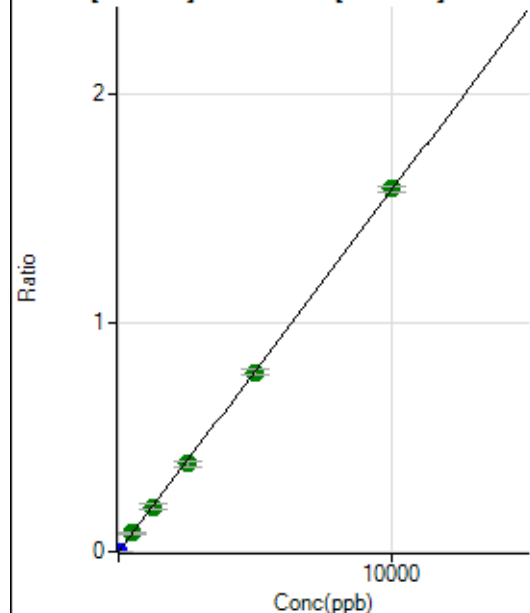
$$DL = 0.0194$$

$$BEC = 0.04275$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.56	0.0000	P	17.3
2	☐	5.000	4.396	14185.04	0.0007	P	0.7
3	☐	500.000	510.961	1628615.84	0.0806	A	2.7
4	☐	1250.000	1249.155	3950431.90	0.1970	A	12.1
5	☐	2500.000	2422.278	7975646.10	0.3820	A	5.1
6	☐	5000.000	4961.858	16226888.21	0.7824	A	3.5
7	☐	10000.000	10038.059	32622504.90	1.5828	A	1.9
8	☐			10690.36	0.0005	P	6.4

$$y = 1.5768\text{E-}004 * x + 5.1665\text{E-}006$$

$$R = 1.0000$$

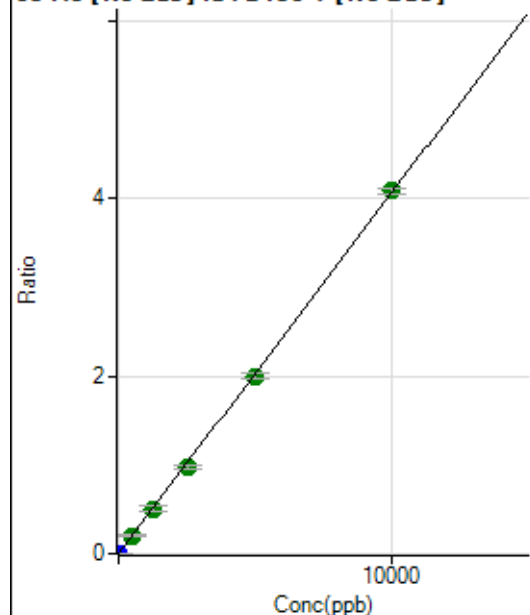
$$DL = 0.01701$$

$$BEC = 0.03277$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	236.12	0.0000	P	30.9
2	☐	5.000	4.231	35120.55	0.0017	P	1.8
3	☐	500.000	504.679	4141487.98	0.2049	A	2.1
4	☐	1250.000	1239.798	10094892.24	0.5033	A	11.9
5	☐	2500.000	2403.042	20371677.19	0.9755	A	4.8
6	☐	5000.000	4924.873	41464714.12	1.9993	A	3.4
7	☐	10000.000	10062.844	84197748.41	4.0850	A	1.5
8	☐			26396.78	0.0013	P	3.7

$$y = 4.0595E-004 * x + 1.1523E-005$$

$$R = 0.9999$$

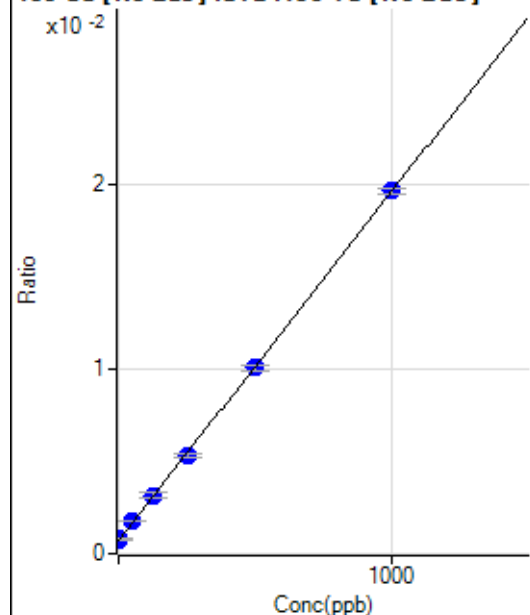
$$DL = 0.0263$$

$$BEC = 0.02839$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9078.09	0.0007	P	2.6
2	☐	1.000	5.115	10412.36	0.0008	P	4.1
3	☐	50.000	55.207	23040.99	0.0017	P	1.9
4	☐	125.000	130.834	42585.28	0.0032	P	9.8
5	☐	250.000	246.035	75254.48	0.0053	P	3.9
6	☐	500.000	495.270	138788.92	0.0101	P	2.8
7	☐	1000.000	1002.363	267034.77	0.0196	P	1.8
8	☐			10087.15	0.0008	P	4.2

$$y = 1.8896E-005 * x + 6.9190E-004$$

$$R = 0.9999$$

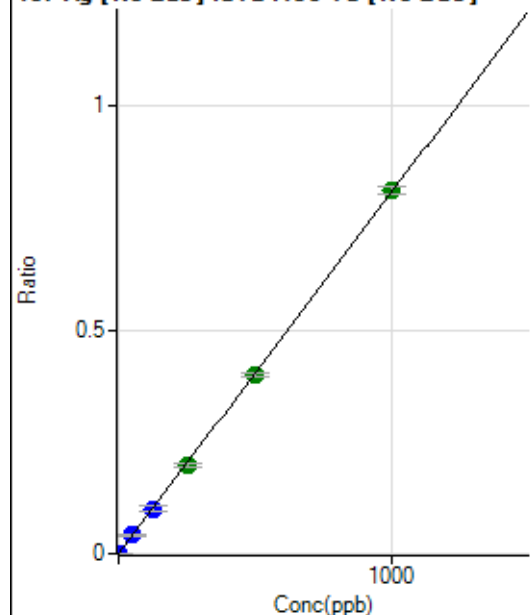
$$DL = 2.894$$

$$BEC = 36.62$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	141.67	0.0000	P	22.0
2	☐	1.000	0.805	8739.00	0.0007	P	13.4
3	☐	50.000	50.772	544732.48	0.0410	P	5.6
4	☐	125.000	123.586	1342200.99	0.0999	P	12.5
5	☐	250.000	243.810	2776645.20	0.1971	A	4.1
6	☐	500.000	495.804	5533928.86	0.4007	A	2.6
7	☐	1000.000	1003.784	11034723.43	0.8113	A	2.0
8	☐			6062.50	0.0005	P	4.6

$$y = 8.0822\text{E-}004 * x + 1.0812\text{E-}005$$

$$R = 1.0000$$

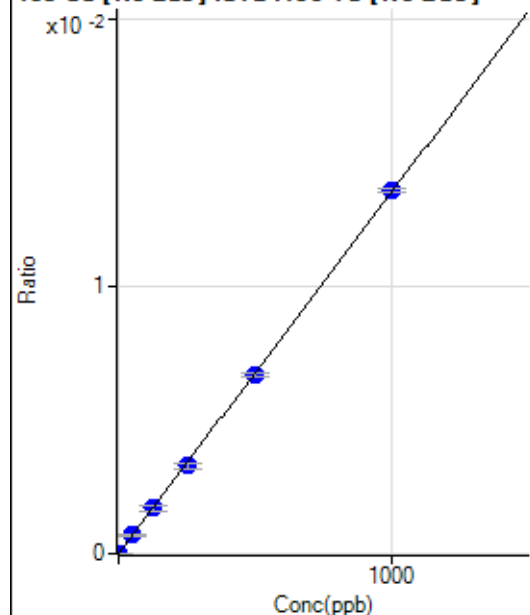
$$DL = 0.008812$$

$$BEC = 0.01338$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	40.28	0.0000	P	13.3
2	☐	1.000	0.886	198.61	0.0000	P	7.2
3	☐	50.000	50.993	9179.41	0.0007	P	5.0
4	☐	125.000	125.213	22752.66	0.0017	P	12.8
5	☐	250.000	242.637	46187.56	0.0033	P	6.0
6	☐	500.000	496.125	92561.19	0.0067	P	2.0
7	☐	1000.000	1003.702	184398.51	0.0136	P	1.2
8	☐			116.67	0.0000	P	8.3

$$y = 1.3503\text{E-}005 * x + 3.0746\text{E-}006$$

$$R = 1.0000$$

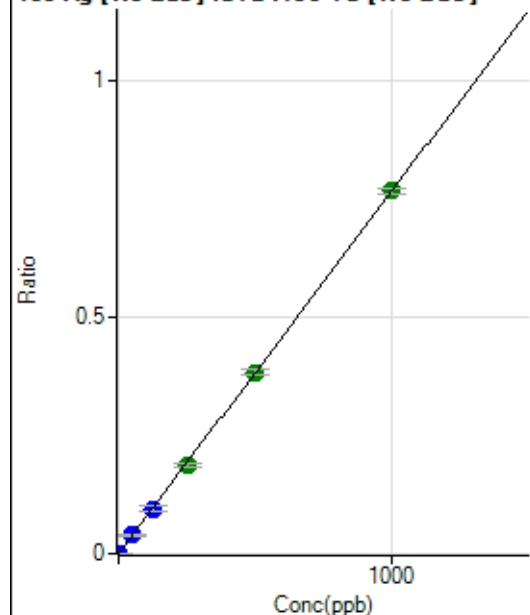
$$DL = 0.09079$$

$$BEC = 0.2277$$

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	47.22	0.0000	P	55.1
2	☐	1.000	0.797	8124.72	0.0006	P	10.4
3	☐	50.000	51.006	519171.88	0.0391	P	5.0
4	☐	125.000	123.372	1271752.46	0.0946	P	11.8
5	☐	250.000	243.830	2634268.07	0.1870	A	4.5
6	☐	500.000	499.820	5292772.51	0.3833	A	2.9
7	☐	1000.000	1001.786	10449936.69	0.7682	A	1.6
8	☐			5615.12	0.0004	P	3.8

$$y = 7.6684\text{E-}004 * x + 3.6222\text{E-}006$$

$$R = 1.0000$$

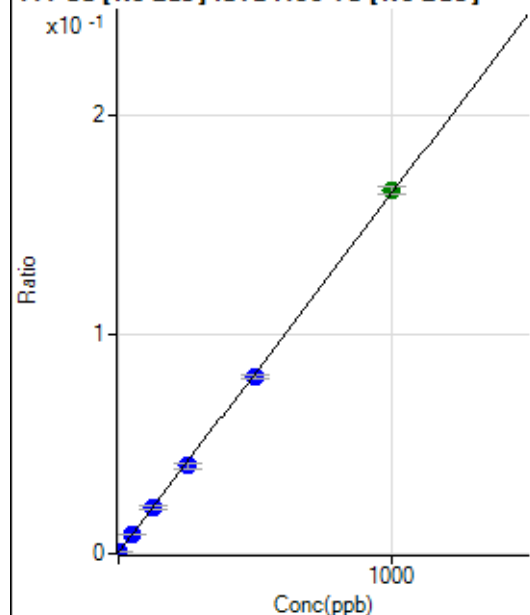
$$DL = 0.007804$$

$$BEC = 0.004724$$

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	6358.42	0.0005	P	2.7
2	☐	1.000	1.350	9324.82	0.0007	P	5.1
3	☐	50.000	52.027	119814.98	0.0090	P	3.0
4	☐	125.000	125.548	283601.06	0.0211	P	11.5
5	☐	250.000	240.930	564023.41	0.0400	P	4.6
6	☐	500.000	489.405	1116206.62	0.0808	P	2.1
7	☐	1000.000	1007.395	2255881.33	0.1659	A	2.0
8	☐			7993.27	0.0006	P	3.7

$$y = 1.6416\text{E-}004 * x + 4.8463\text{E-}004$$

$$R = 0.9999$$

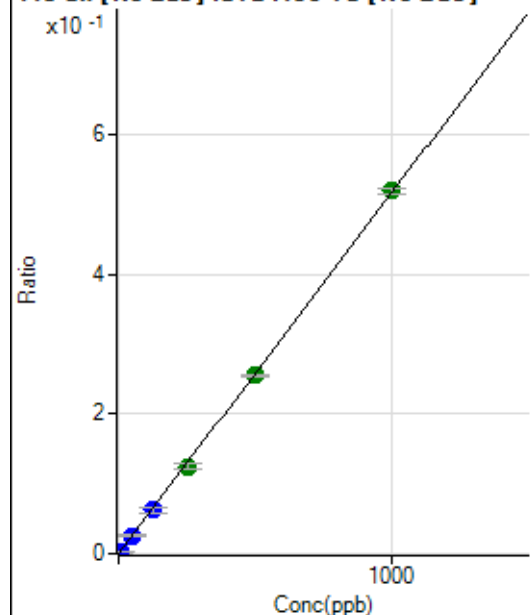
$$DL = 0.2422$$

$$BEC = 2.952$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2508.62	0.0002	P	7.0
2	☐	5.000	4.706	34608.85	0.0026	P	1.3
3	☐	50.000	49.513	341881.56	0.0258	P	4.2
4	☐	125.000	120.091	835893.44	0.0622	P	12.1
5	☐	250.000	241.112	1756147.26	0.1247	A	5.7
6	☐	500.000	494.273	3527436.95	0.2554	A	1.4
7	☐	1000.000	1005.725	7065807.58	0.5195	A	1.8
8	☐			14727.32	0.0011	P	2.6

$$y = 5.1632\text{E-}004 * x + 1.9113\text{E-}004$$

$$R = 0.9999$$

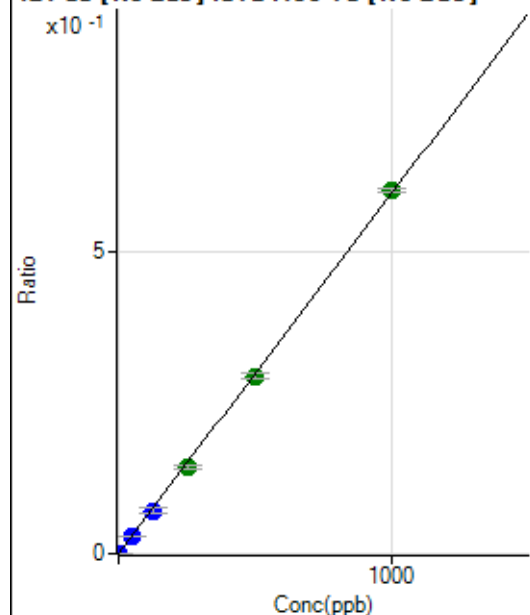
$$DL = 0.07767$$

$$BEC = 0.3702$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0000	P	36.6
2	☐	2.000	1.858	14744.01	0.0011	P	3.4
3	☐	50.000	49.408	390546.32	0.0294	P	2.8
4	☐	125.000	120.019	960419.30	0.0714	P	11.7
5	☐	250.000	239.972	2012236.91	0.1428	A	4.9
6	☐	500.000	492.218	4045649.53	0.2930	A	3.1
7	☐	1000.000	1007.050	8153502.96	0.5994	A	1.0
8	☐			9817.46	0.0007	P	5.0

$$y = 5.9519\text{E-}004 * x + 1.1058\text{E-}005$$

$$R = 0.9999$$

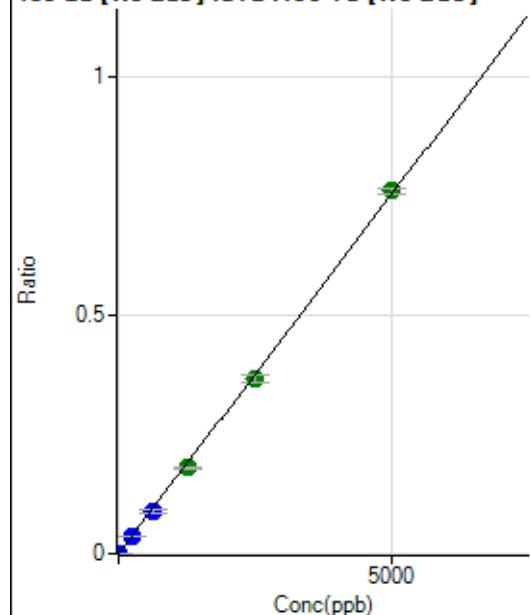
$$DL = 0.02042$$

$$BEC = 0.01858$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	31.1
2	☐	10.000	8.833	17647.46	0.0013	P	2.9
3	☐	250.000	241.024	482434.74	0.0363	P	2.7
4	☐	625.000	591.486	1198713.13	0.0892	P	11.7
5	☐	1250.000	1193.060	2534446.76	0.1799	A	4.1
6	☐	2500.000	2436.305	5071391.52	0.3673	A	3.6
7	☐	5000.000	5050.723	10356583.39	0.7614	A	1.8
8	☐			4781.48	0.0004	P	1.7

$$y = 1.5075\text{E-}004 * x + 4.8536\text{E-}006$$

R = 0.9998

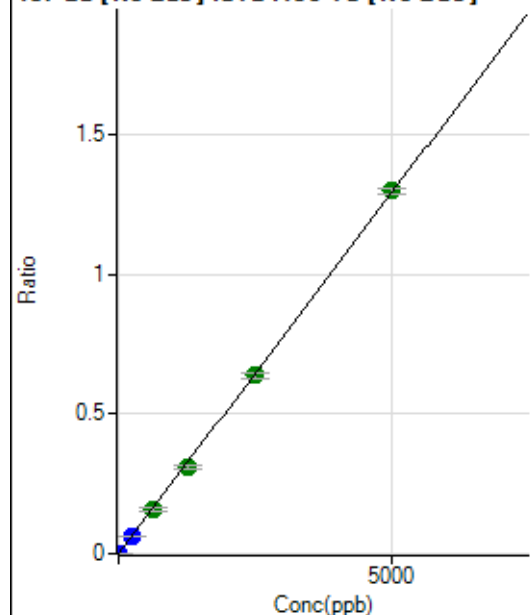
DL = 0.03002

BEC = 0.0322

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	37.0
2	☐	10.000	9.093	31087.52	0.0024	P	3.1
3	☐	250.000	245.469	840527.01	0.0633	P	4.3
4	☐	625.000	621.564	2158039.78	0.1603	A	9.7
5	☐	1250.000	1196.949	4349755.91	0.3087	A	4.3
6	☐	2500.000	2469.576	8796313.91	0.6370	A	3.0
7	☐	5000.000	5029.133	17643944.32	1.2972	A	1.8
8	☐			8297.10	0.0006	P	4.4

$$y = 2.5793\text{E-}004 * x + 8.5166\text{E-}006$$

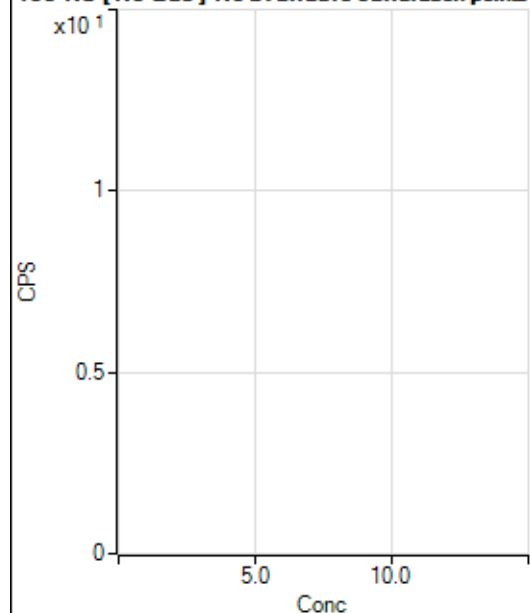
R = 0.9999

DL = 0.03661

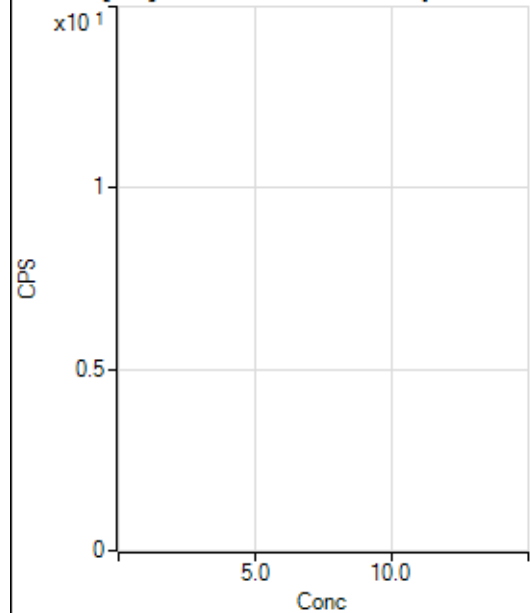
BEC = 0.03302

Weight: <None>

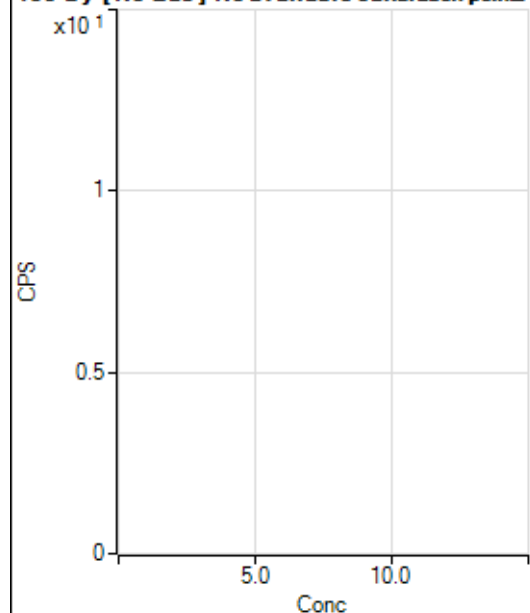
Min Conc: 0

150 Nd [No Gas] No available calibration points

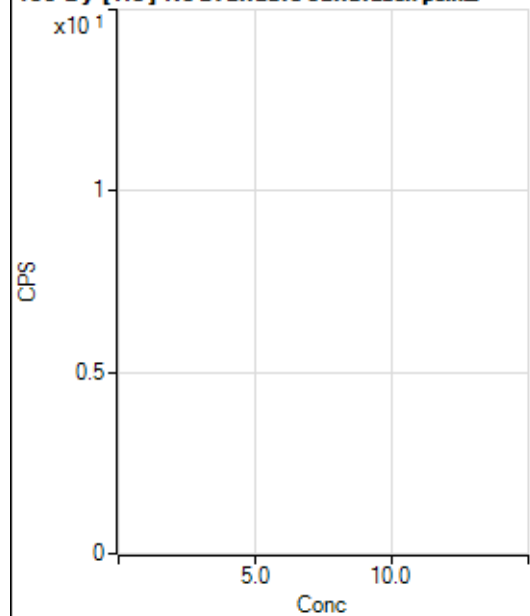
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			13.33		P	NaN
3	☐			60.00		P	11.1
4	☐			164.45		P	19.2
5	☐			317.79		P	7.9
6	☐			644.48		P	11.4
7	☐			1295.64		P	7.0
8	☐			91.11		P	23.5

150 Nd [He] No available calibration points

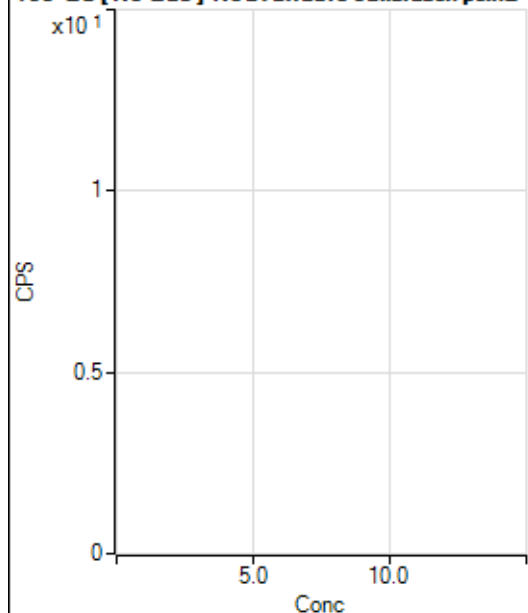
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			3.33		P	0.0
3	☐			14.44		P	13.4
4	☐			38.89		P	27.5
5	☐			67.78		P	15.0
6	☐			143.34		P	8.4
7	☐			260.01		P	19.1
8	☐			38.89		P	35.7

156 Dy [No Gas] No available calibration points

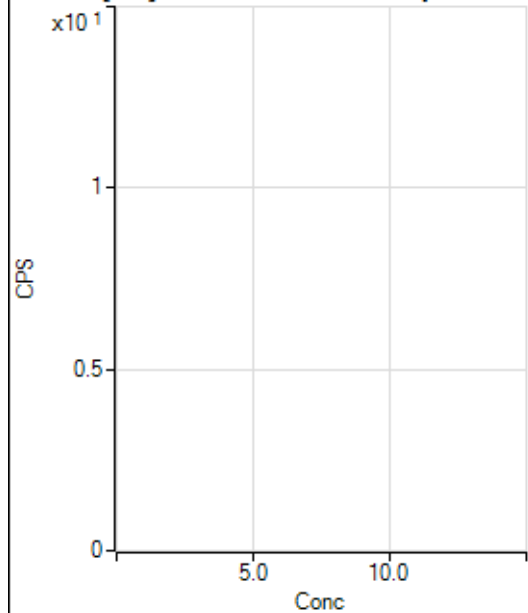
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	21.6
2	☐			19.44		P	65.5
3	☐			55.56		P	31.2
4	☐			77.78		P	37.6
5	☐			113.89		P	27.7
6	☐			333.35		P	20.0
7	☐			550.02		P	13.2
8	☐			1388.99		P	2.1

156 Dy [He] No available calibration points

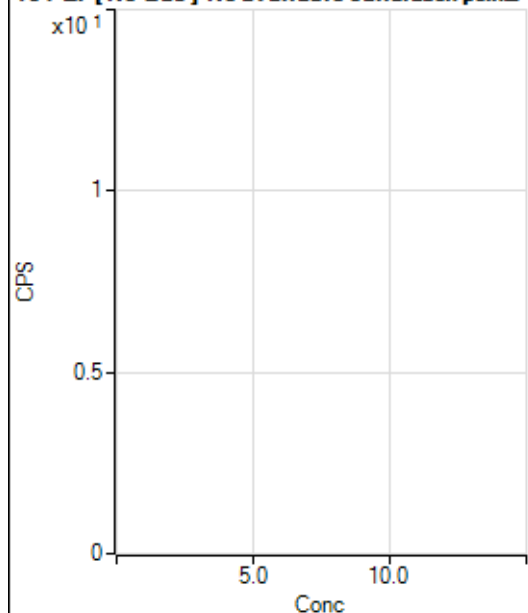
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			10.00		P	33.3
3	☐			35.56		P	27.1
4	☐			83.33		P	14.4
5	☐			161.12		P	15.8
6	☐			288.89		P	17.4
7	☐			595.57		P	12.9
8	☐			912.26		P	3.9

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

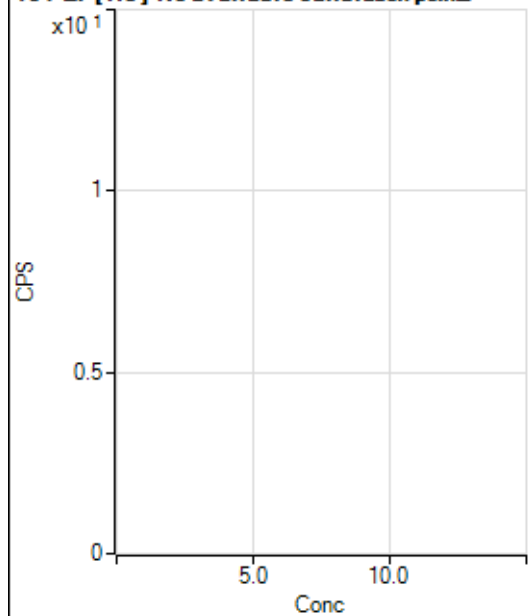
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	62.4
2	☐			102.78		P	38.3
3	☐			108.34		P	35.2
4	☐			130.56		P	42.5
5	☐			186.12		P	2.6
6	☐			252.79		P	9.5
7	☐			283.34		P	24.1
8	☐			1125.08		P	6.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			397.79		P	4.2
2	☐			442.23		P	12.2
3	☐			426.68		P	9.0
4	☐			467.79		P	6.6
5	☐			473.35		P	13.0
6	☐			488.90		P	9.0
7	☐			568.91		P	3.2
8	☐			1136.72		P	1.6

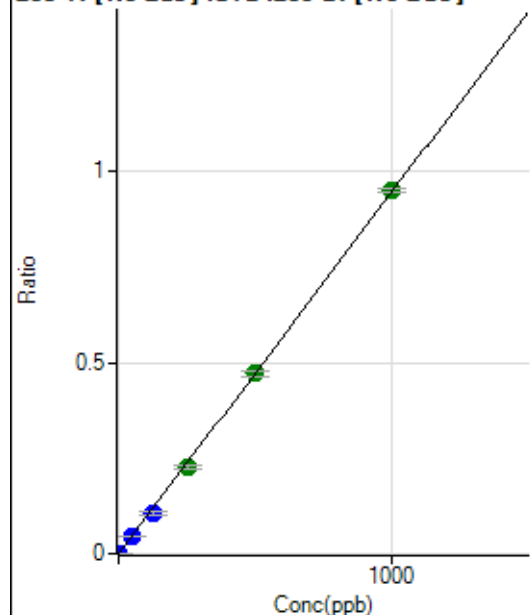
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.44		P	61.6
2	☐			72.22		P	29.0
3	☐			41.67		P	52.9
4	☐			75.00		P	40.1
5	☐			63.89		P	15.1
6	☐			113.89		P	33.0
7	☐			97.23		P	13.1
8	☐			122.23		P	21.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	37.6
2	☐			37.78		P	18.4
3	☐			37.78		P	13.5
4	☐			47.78		P	33.0
5	☐			42.22		P	37.3
6	☐			58.89		P	6.5
7	☐			73.33		P	16.4
8	☐			83.33		P	8.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.35	0.0000	P	18.2
2	☐	1.000	0.851	6774.08	0.0008	P	5.5
3	☐	50.000	46.841	356925.19	0.0443	P	5.1
4	☐	125.000	112.911	880007.73	0.1068	P	11.6
5	☐	250.000	238.861	1928575.82	0.2259	A	4.4
6	☐	500.000	499.792	3855498.91	0.4727	A	3.4
7	☐	1000.000	1004.558	7626076.38	0.9500	A	1.2
8	☐			2108.56	0.0003	P	4.2

$$y = 9.4567E-004 * x + 3.2032E-005$$

$$R = 0.9999$$

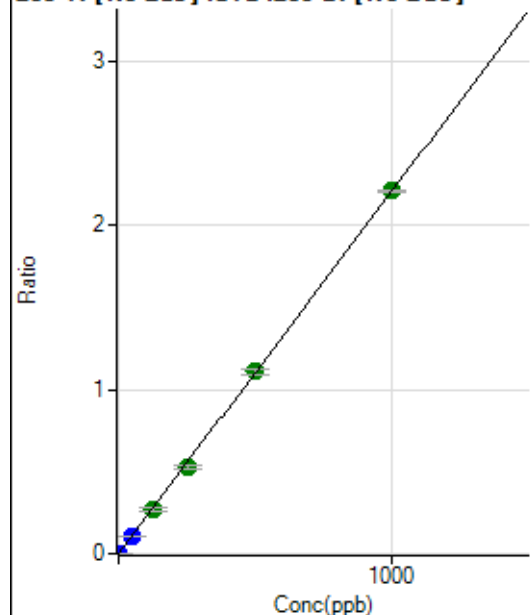
$$DL = 0.01851$$

$$BEC = 0.03387$$

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	619.47	0.0001	P	9.5
2	☐	1.000	0.878	16276.75	0.0020	P	2.3
3	☐	50.000	46.731	829893.61	0.1030	P	2.7
4	☐	125.000	121.621	2208315.74	0.2680	A	11.4
5	☐	250.000	239.933	4512341.25	0.5286	A	4.5
6	☐	500.000	502.099	9022591.43	1.1061	A	3.6
7	☐	1000.000	1002.053	17719639.98	2.2075	A	0.4
8	☐			4845.44	0.0007	P	8.8

$$y = 0.0022 * x + 7.6749E-005$$

$$R = 0.9999$$

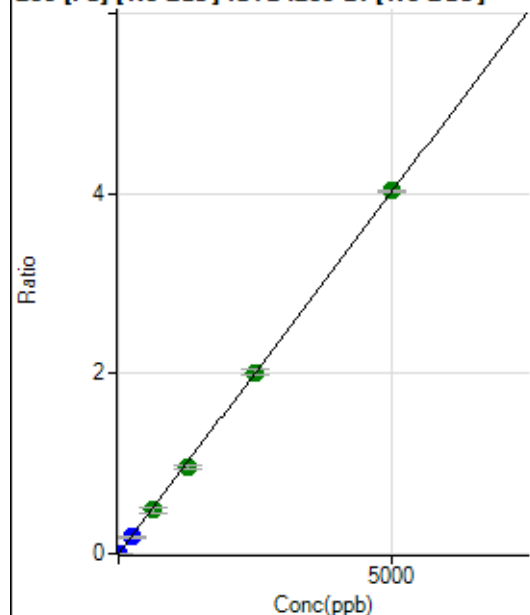
$$DL = 0.009962$$

$$BEC = 0.03484$$

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	507.42	0.0001	P	12.4
2	☐	1.000	0.821	5843.96	0.0007	P	4.8
3	☐	250.000	226.665	1465536.72	0.1820	P	5.2
4	☐	625.000	604.288	3995425.81	0.4852	A	12.2
5	☐	1250.000	1188.924	8148032.42	0.9545	A	4.1
6	☐	2500.000	2503.138	16391675.94	2.0094	A	3.1
7	☐	5000.000	5017.456	32331952.34	4.0278	A	0.4
8	☐			7978.38	0.0011	P	5.4

$$y = 8.0275E-004 * x + 6.2905E-005$$

$$R = 0.9999$$

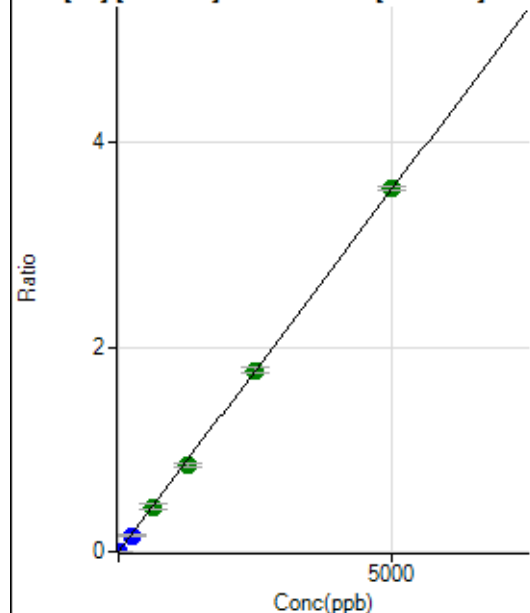
$$DL = 0.02924$$

$$BEC = 0.07836$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	407.42	0.0001	P	14.3
2	☐	1.000	0.762	4769.44	0.0006	P	1.9
3	☐	250.000	222.812	1269166.12	0.1576	P	4.3
4	☐	625.000	615.548	3584220.48	0.4353	A	12.5
5	☐	1250.000	1194.757	7212650.10	0.8448	A	3.6
6	☐	2500.000	2505.274	14448415.25	1.7714	A	3.7
7	☐	5000.000	5013.714	28456972.86	3.5450	A	1.0
8	☐			6720.33	0.0010	P	2.8

$$y = 7.0705E-004 * x + 5.0435E-005$$

$$R = 0.9999$$

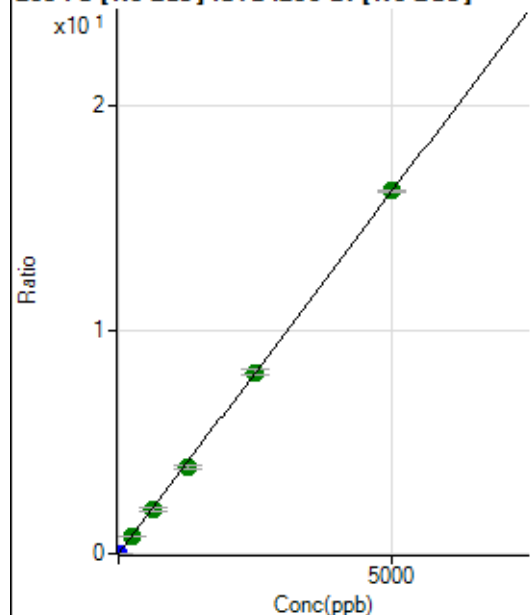
$$DL = 0.03057$$

$$BEC = 0.07133$$

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	1916.76	0.0002	P	6.4
2	☐	1.000	0.794	22693.04	0.0028	P	0.5
3	☐	250.000	239.512	6237387.35	0.7745	A	4.1
4	☐	625.000	612.405	16305136.47	1.9799	A	12.3
5	☐	1250.000	1194.910	32978866.71	3.8630	A	3.8
6	☐	2500.000	2500.963	65950442.45	8.0849	A	3.1
7	☐	5000.000	5015.390	130145541.1	16.2132	A	0.4
8	☐			31665.11	0.0045	P	2.8

$$y = 0.0032 * x + 2.3738E-004$$

$$R = 0.9999$$

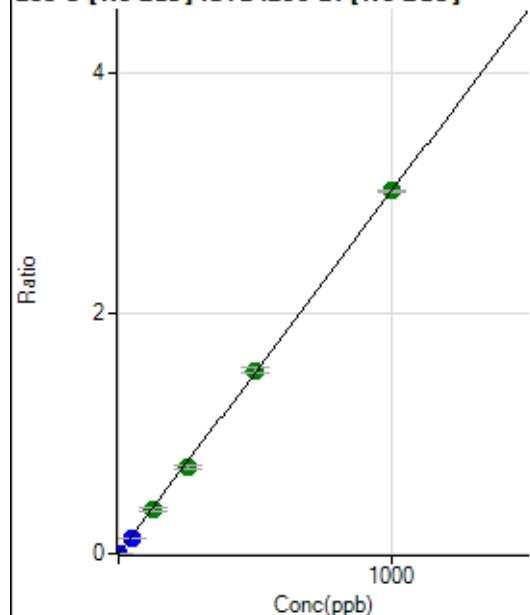
$$DL = 0.01418$$

$$BEC = 0.07343$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	261.12	0.0000	P	24.8
2	☐	1.000	0.777	19217.53	0.0024	P	3.3
3	☐	50.000	42.920	1042086.08	0.1294	P	4.1
4	☐	125.000	122.188	3032807.68	0.3683	A	12.4
5	☐	250.000	237.833	6118632.60	0.7169	A	5.1
6	☐	500.000	505.756	12435292.46	1.5244	A	3.1
7	☐	1000.000	1000.869	24215200.19	3.0167	A	0.2
8	☐			2594.78	0.0004	P	11.0

$$y = 0.0030 * x + 3.2352E-005$$

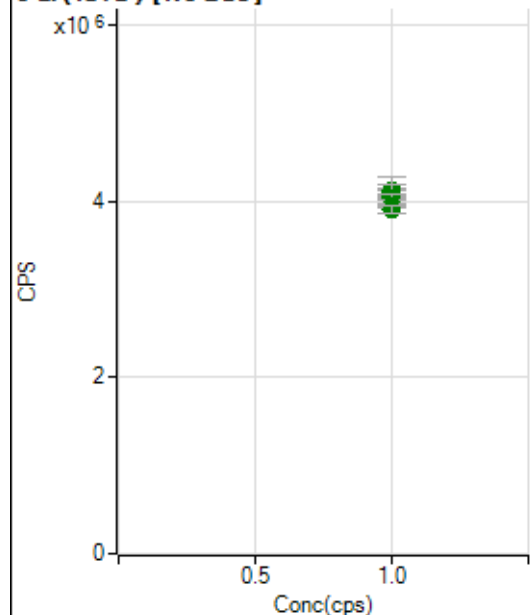
$$R = 0.9999$$

$$DL = 0.007993$$

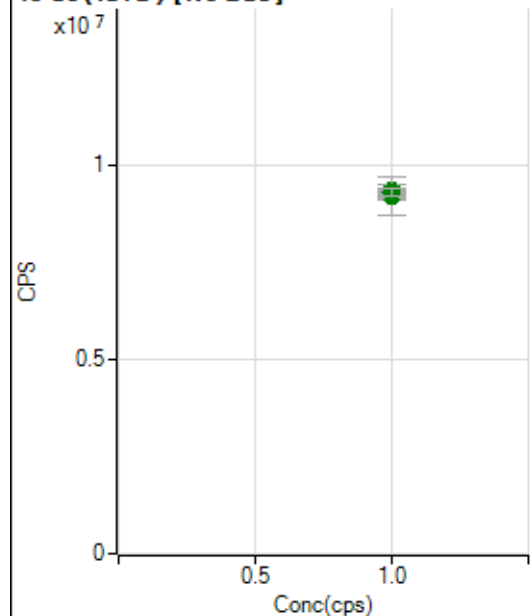
$$BEC = 0.01073$$

Weight: <None>

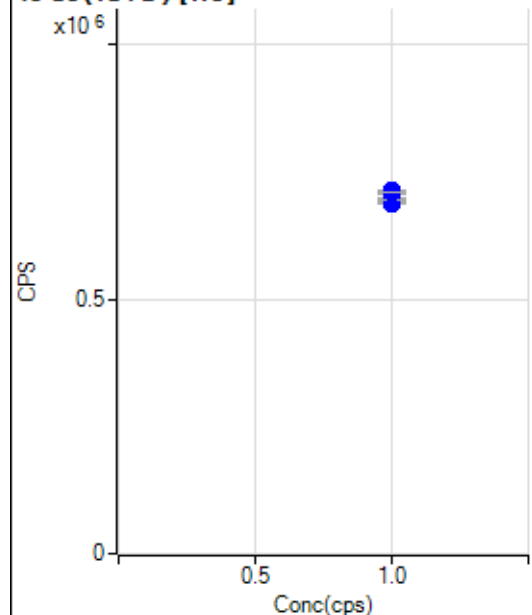
Min Conc: 0

6 Li (ISTD) [No Gas]

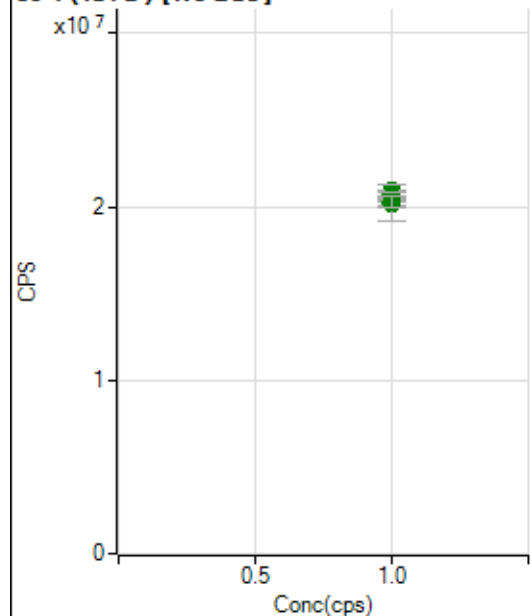
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4085948.13		A	1.5
2	☐	1.000		4047259.87		A	1.6
3	☐	1.000		4106001.12		A	1.8
4	☐	1.000		4113679.56		A	7.8
5	☐	1.000		4104915.53		A	3.5
6	☐	1.000		4041556.47		A	1.8
7	☐	1.000		3946812.55		A	0.7
8	☐	1.000		3905002.96		A	1.9

45 Sc (ISTD) [No Gas]

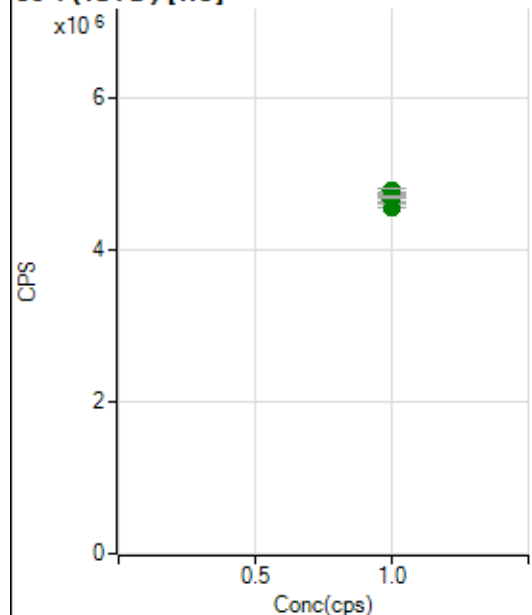
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9330936.74		A	1.2
2	☐	1.000		9232754.72		A	0.5
3	☐	1.000		9215690.35		A	2.9
4	☐	1.000		9198041.95		A	10.3
5	☐	1.000		9320057.22		A	4.3
6	☐	1.000		9269854.44		A	2.4
7	☐	1.000		9209790.49		A	0.9
8	☐	1.000		9315385.83		A	2.0

45 Sc (ISTD) [He]

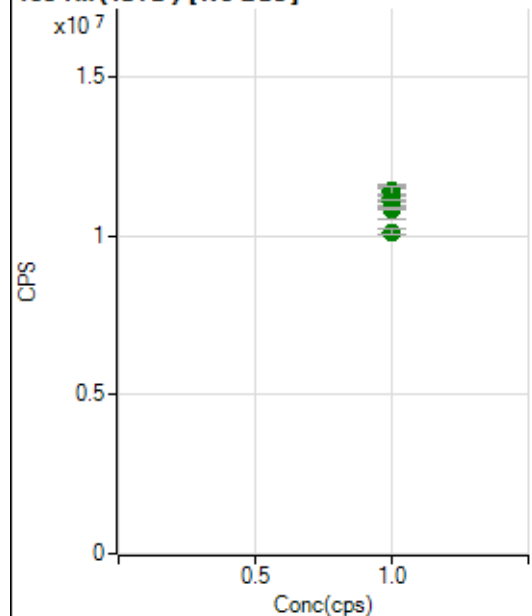
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		712198.33		P	0.4
2	☐	1.000		707743.86		P	0.7
3	☐	1.000		693621.00		P	1.6
4	☐	1.000		689407.56		P	0.4
5	☐	1.000		695766.18		P	0.3
6	☐	1.000		712810.35		P	0.4
7	☐	1.000		711982.25		P	0.4
8	☐	1.000		710277.87		P	0.5

89 Y (ISTD) [No Gas]

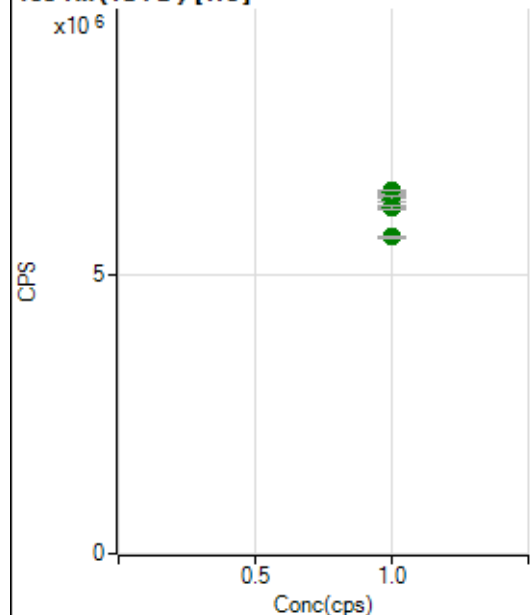
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20449799.14		A	1.2
2	☐	1.000		20312514.70		A	0.5
3	☐	1.000		20217147.89		A	1.3
4	☐	1.000		20219538.59		A	10.1
5	☐	1.000		20909629.41		A	4.1
6	☐	1.000		20748886.64		A	1.9
7	☐	1.000		20614731.92		A	1.7
8	☐	1.000		20250208.45		A	3.2

89 Y(ISTD) [He]

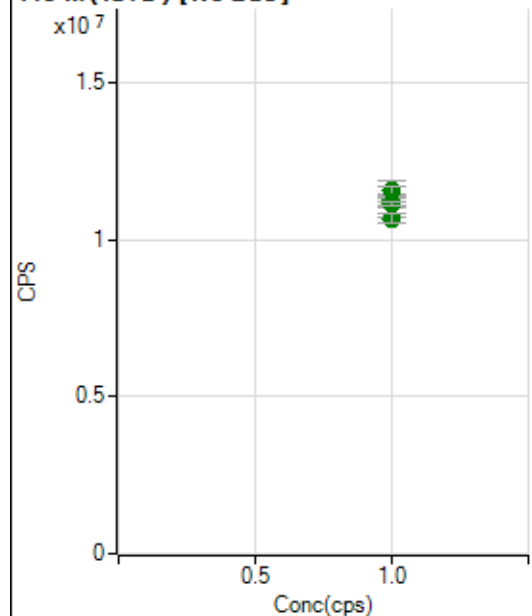
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4682026.70		A	0.1
2	☐	1.000		4648406.53		A	1.2
3	☐	1.000		4647499.06		A	1.6
4	☐	1.000		4562989.51		A	0.2
5	☐	1.000		4609488.19		A	0.5
6	☐	1.000		4742882.05		A	0.6
7	☐	1.000		4774372.12		A	1.7
8	☐	1.000		4692595.87		A	0.4

103 Rh(ISTD) [No Gas]

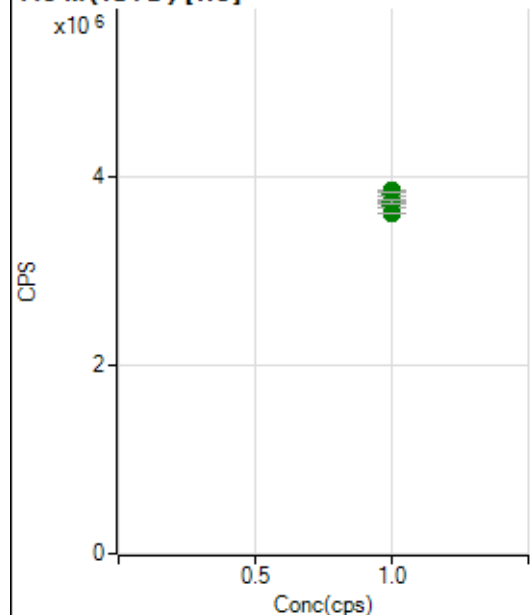
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11379294.83		A	1.9
2	☐	1.000		11422724.69		A	1.3
3	☐	1.000		11200698.86		A	2.0
4	☐	1.000		11100036.92		A	10.0
5	☐	1.000		11354398.58		A	3.5
6	☐	1.000		11058420.25		A	1.9
7	☐	1.000		10857986.44		A	0.9
8	☐	1.000		10133763.67		A	2.2

103 Rh (ISTD) [He]

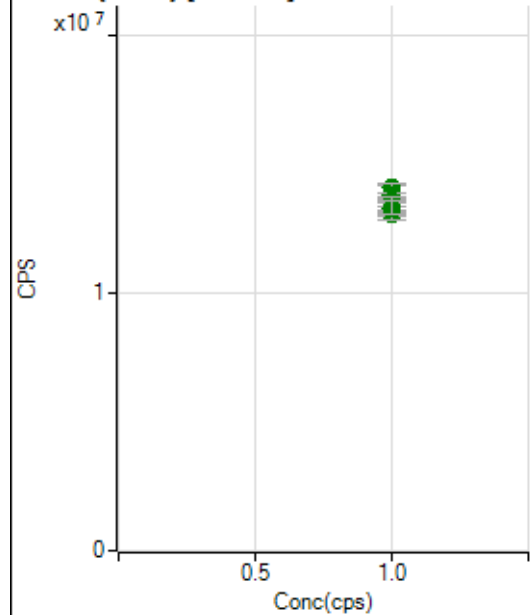
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6516008.24		A	0.2
2	☐	1.000		6492591.50		A	0.6
3	☐	1.000		6357582.75		A	1.4
4	☐	1.000		6258225.32		A	1.6
5	☐	1.000		6245932.13		A	0.1
6	☐	1.000		6365501.43		A	1.6
7	☐	1.000		6204327.13		A	1.2
8	☐	1.000		5696229.78		A	0.6

115 In (ISTD) [No Gas]

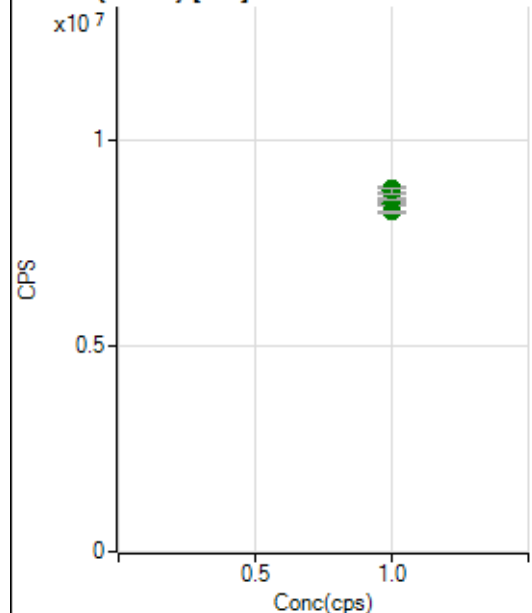
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11324341.53		A	2.4
2	☐	1.000		11333455.25		A	0.5
3	☐	1.000		11184343.38		A	2.8
4	☐	1.000		11282036.57		A	10.5
5	☐	1.000		11549211.41		A	2.8
6	☐	1.000		11183262.38		A	2.9
7	☐	1.000		11133488.25		A	1.5
8	☐	1.000		10681628.83		A	3.0

115 In (ISTD) [He]

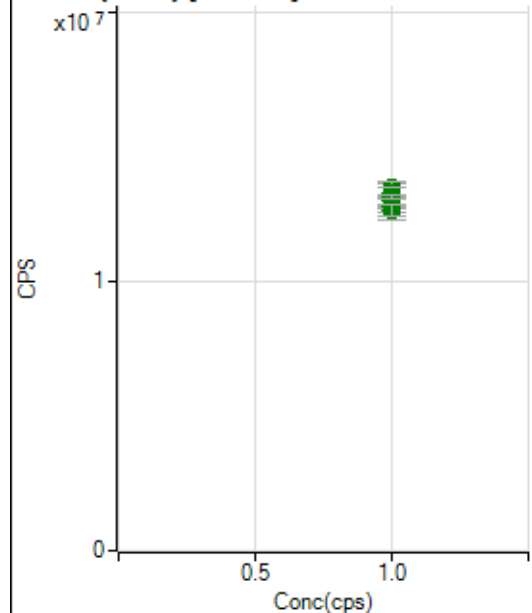
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3850235.24		A	0.9
2	☐	1.000		3816687.76		A	1.1
3	☐	1.000		3760334.80		A	1.9
4	☐	1.000		3693940.87		A	0.9
5	☐	1.000		3727679.69		A	0.4
6	☐	1.000		3816090.50		A	1.4
7	☐	1.000		3732584.04		A	1.0
8	☐	1.000		3614238.09		A	0.4

159 Tb (ISTD) [No Gas]

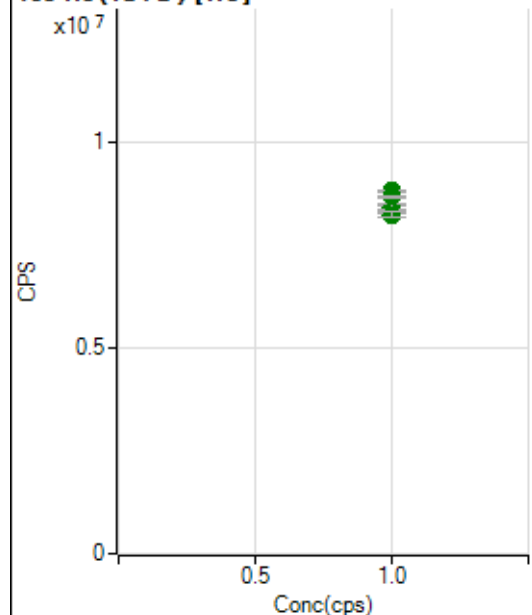
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13116184.80		A	2.2
2	☐	1.000		13205250.64		A	0.5
3	☐	1.000		13280345.91		A	1.9
4	☐	1.000		13544331.88		A	9.6
5	☐	1.000		14100569.09		A	2.9
6	☐	1.000		13813450.21		A	1.6
7	☐	1.000		13604393.13		A	1.7
8	☐	1.000		13332095.36		A	3.9

159 Tb (ISTD) [He]

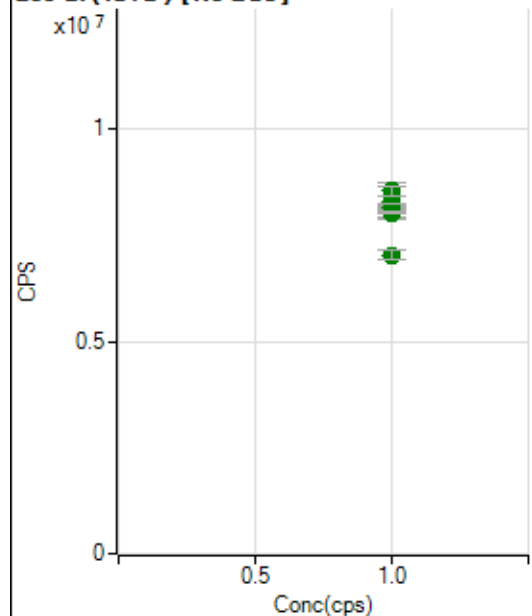
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8523994.25		A	0.0
2	☐	1.000		8517228.27		A	1.0
3	☐	1.000		8448529.53		A	1.2
4	☐	1.000		8565397.58		A	0.7
5	☐	1.000		8558218.55		A	0.6
6	☐	1.000		8817773.00		A	1.3
7	☐	1.000		8764358.55		A	1.2
8	☐	1.000		8262023.84		A	0.4

165 Ho (ISTD) [No Gas]

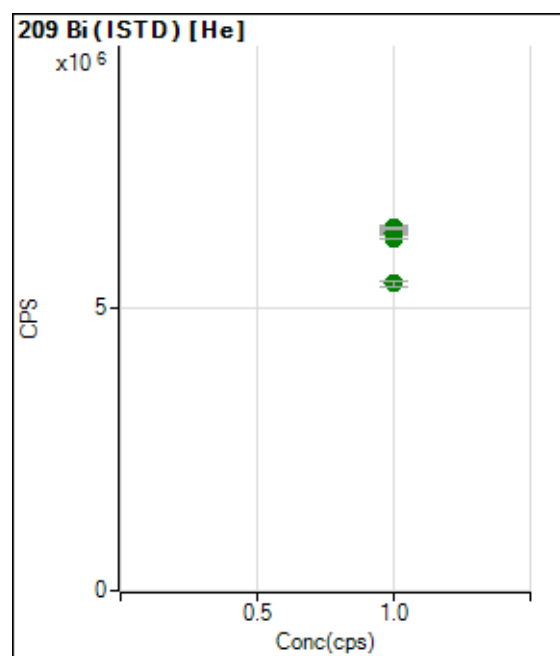
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12637631.34		A	1.7
2	☐	1.000		12685549.39		A	1.4
3	☐	1.000		12754817.87		A	1.1
4	☐	1.000		12958963.69		A	10.8
5	☐	1.000		13464876.74		A	3.9
6	☐	1.000		13304296.33		A	2.7
7	☐	1.000		13114549.53		A	1.1
8	☐	1.000		12654483.01		A	3.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8309822.17		A	0.4
2	☐	1.000		8350928.28		A	0.8
3	☐	1.000		8375983.42		A	1.5
4	☐	1.000		8428572.03		A	1.3
5	☐	1.000		8429836.47		A	1.7
6	☐	1.000		8817126.68		A	0.5
7	☐	1.000		8675793.62		A	0.3
8	☐	1.000		8241125.36		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8075534.60		A	1.6
2	☐	1.000		8096436.75		A	0.1
3	☐	1.000		8060404.18		A	3.1
4	☐	1.000		8305999.60		A	10.4
5	☐	1.000		8543194.04		A	2.8
6	☐	1.000		8161037.24		A	2.3
7	☐	1.000		8027098.08		A	0.5
8	☐	1.000		7028940.66		A	3.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6346952.27		A	0.6
2	☐	1.000		6410317.82		A	1.1
3	☐	1.000		6316393.38		A	1.5
4	☐	1.000		6373758.17		A	0.5
5	☐	1.000		6331759.49		A	1.1
6	☐	1.000		6407452.75		A	0.2
7	☐	1.000		6209933.10		A	0.1
8	☐	1.000		5420013.53		A	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7102622-MS.b
Acq. Date-Time 2022-10-26 13:57:23
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		10768	107683.13			0.771	5.000
24		122837	1228371.89			0.724	5.000
25		15974	159736.59			0.535	5.000
26		18757	187570.49			0.534	5.000
59		90815	908147.68			0.580	5.000
113		8379	83790.34			0.406	5.000
115		110925	1109250.32			1.104	5.000
206		21290	212897.90			0.943	5.000
207		19528	195280.88			0.446	5.000
208		45920	459196.88			0.513	5.000
220		0	2.70			33.641	

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

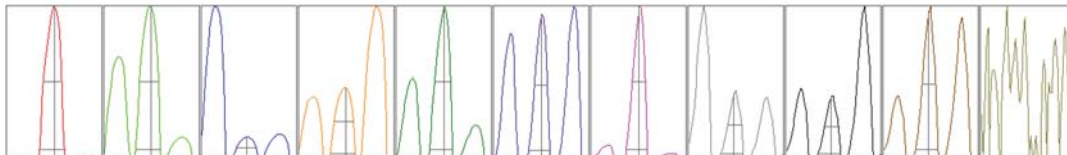
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10747	10772	10643	10817	10863
24	122213	123030	121799	124110	123033
25	15896	16012	15872	16070	16018
26	18603	18774	18723	18835	18850
59	91004	90152	90361	91304	91252
113	8406	8384	8398	8386	8320
115	112404	111487	110320	111232	109182
206	20998	21454	21247	21502	21247
207	19507	19621	19484	19612	19417
208	45615	46047	45914	46230	45792

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	20100.03	9.05	8.90 - 9.10	
24	215468.93	24.00	23.90 - 24.10	
25	28038.55	24.95	24.90 - 25.10	
26	32232.84	26.00	25.90 - 26.10	
59	188320.36	59.05	58.90 - 59.10	
113	20787.94	113.05	112.90 - 113.10	
115	272943.90	115.05	114.90 - 115.10	
206	48307.05	205.95	205.90 - 206.10	
207	44664.04	206.95	206.90 - 207.10	
208	107859.37	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.777	0.900	
24	0.60	0.781	0.900	
25	0.60	0.777	0.900	
26	0.61	0.785	0.900	
59	0.50	0.728	0.900	
113	0.41	0.661	0.900	
115	0.41	0.662	0.900	
206	0.44	0.720	0.900	
207	0.44	0.717	0.900	
208	0.42	0.716	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	9.0 V	Deflect	15.0 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
---------	---------	---------	--------

EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		28238	282379.52			0.588	
89		42533	425328.51			0.850	
205		33335	333354.17			0.407	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	28493	28112	28231	28282	28072
89	43087	42567	42594	42200	42216
205	33559	33358	33297	33247	33217

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	3.4 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-130.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 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	123	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
---------	---------	---------	--------

EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
---------------	--------	-----------	--------	----------	--------