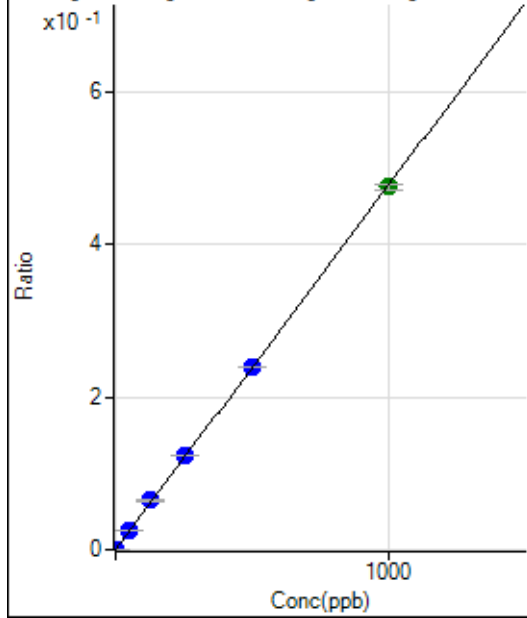


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7062922 MS.b\
Analysis File: P7062922 MS.batch.bin
DA Date-Time: 2022-06-29 23:53:18
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-06-29 13:14:36
2	005CALS.d	S02	2022-06-29 13:17:28
3	006CALS.d	S03	2022-06-29 13:20:22
4	007CALS.d	S04	2022-06-29 13:23:06
5	008CALS.d	S05	2022-06-29 13:25:53
6	009CALS.d	S06	2022-06-29 13:28:38
7	010CALS.d	S07	2022-06-29 13:31:26
8	011CALS.d	S08	2022-06-29 13:34:11

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0000	P	11.4
2	☐	1.000	1.095	2084.61	0.0005	P	4.8
3	☐	50.000	54.886	104100.96	0.0262	P	0.6
4	☐	125.000	135.065	243483.77	0.0645	P	2.2
5	☐	250.000	257.082	460337.97	0.1227	P	0.5
6	☐	500.000	502.234	859840.18	0.2396	P	0.5
7	☐	1000.000	995.610	1594536.82	0.4750	A	1.4
8	☐			5927.84	0.0019	P	3.1

$$y = 4.7708\text{E-}004 * x + 1.5152\text{E-}005$$

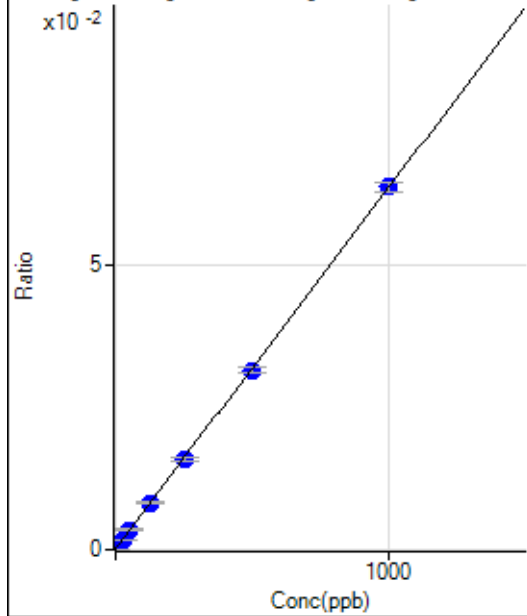
$$R = 0.9999$$

$$DL = 0.01083$$

$$BEC = 0.03176$$

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	594.47	0.0002	P	4.9
2	☐	25.000	24.961	6718.30	0.0017	P	6.1
3	☐	50.000	52.574	13839.82	0.0035	P	6.9
4	☐	125.000	127.933	31206.96	0.0083	P	5.1
5	☐	250.000	249.277	59882.84	0.0160	P	3.7
6	☐	500.000	494.688	113099.88	0.0315	P	3.2
7	☐	1000.000	1002.343	213894.04	0.0637	P	2.7
8	☐			10612.23	0.0034	P	15.5

$$y = 6.3414\text{E-}005 * x + 1.5009\text{E-}004$$

$$R = 1.0000$$

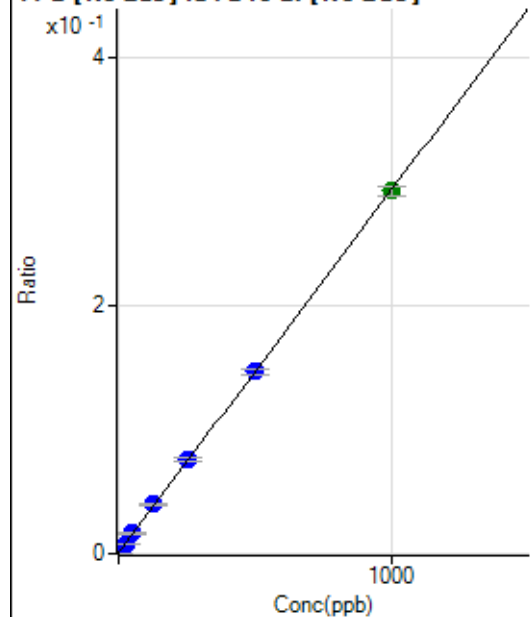
$$DL = 0.3484$$

$$BEC = 2.367$$

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	2878.12	0.0007	P	5.6
2	☐	25.000	25.486	31685.80	0.0082	P	4.9
3	☐	50.000	53.721	65220.91	0.0164	P	6.5
4	☐	125.000	133.350	149865.12	0.0397	P	4.7
5	☐	250.000	257.341	284800.30	0.0759	P	4.7
6	☐	500.000	499.056	525675.82	0.1465	P	3.2
7	☐	1000.000	997.395	980468.26	0.2921	A	2.4
8	☐			49958.93	0.0159	P	9.7

$$y = 2.9210E-004 * x + 7.2665E-004$$

$$R = 0.9999$$

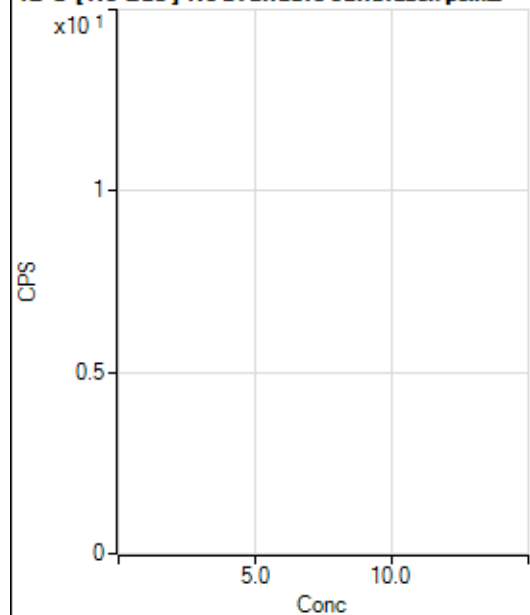
$$DL = 0.4186$$

$$BEC = 2.488$$

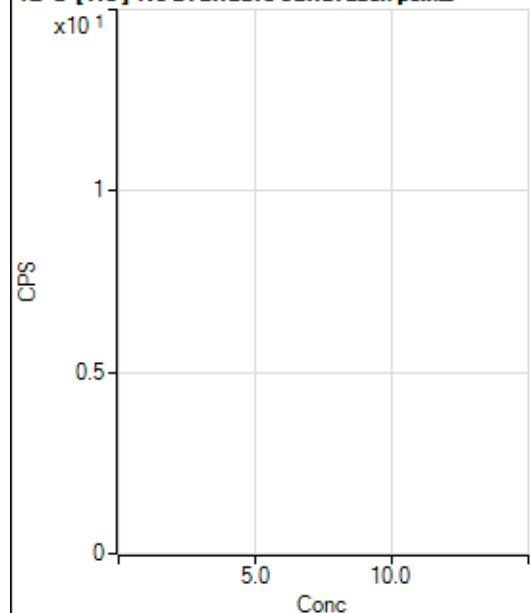
Weight: <None>

Min Conc: 0

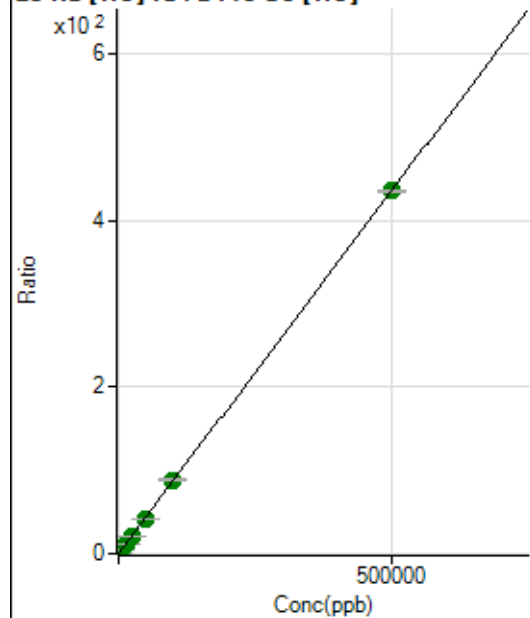
12 C [No Gas] No available calibration points



	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	34525.90	0.0416	P	1.1
2	☐	500.000	472.998	376287.94	0.4533	P	0.7
3	☐	5000.000	4932.407	3506198.23	4.3345	A	0.7
4	☐	12500.000	11970.190	8079949.20	10.4599	A	0.6
5	☐	25000.000	24303.219	14774092.23	21.1939	A	0.4
6	☐	50000.000	47075.900	27096748.99	41.0142	A	0.5
7	☐	100000.00	101465.43	52338478.48	88.3523	A	2.4
8	☐	500000.00	500048.11	276431458.0	435.2597	A	0.4

$$y = 8.7035E-004 * x + 0.0416$$

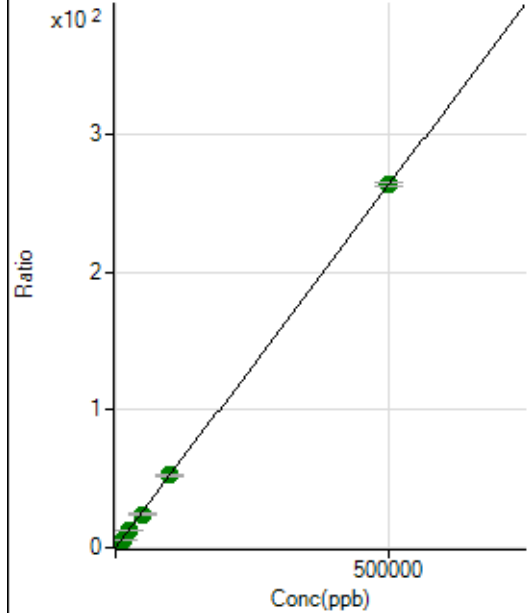
$$R = 1.0000$$

$$DL = 1.527$$

$$BEC = 47.78$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	561.13	0.0007	P	9.7
2	☐	500.000	486.174	212917.96	0.2565	P	1.2
3	☐	5000.000	5001.419	2129154.68	2.6321	A	0.3
4	☐	12500.000	11869.289	4824611.51	6.2456	A	0.8
5	☐	25000.000	24087.463	8834447.07	12.6741	A	0.4
6	☐	50000.000	46401.011	16129591.91	24.4141	A	0.5
7	☐	100000.00	100227.93	31240585.65	52.7346	A	2.1
8	☐	500000.00	500375.70	167201914.8	263.2684	A	1.0

$$y = 5.2614\text{E-}004 * x + 6.7589\text{E-}004$$

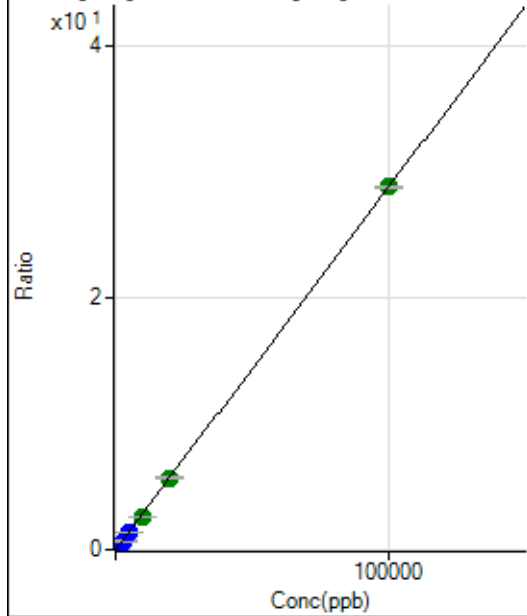
$$R = 1.0000$$

$$DL = 0.3737$$

$$BEC = 1.285$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	277.78	0.0003	P	4.3
2	☐	20.000	20.812	5250.98	0.0063	P	2.1
3	☐	1000.000	994.911	231923.67	0.2867	P	0.5
4	☐	2500.000	2383.990	530346.03	0.6865	P	0.7
5	☐	5000.000	4791.717	961630.53	1.3796	P	0.5
6	☐	10000.000	9255.624	1760344.79	2.6645	A	0.6
7	☐	20000.000	19773.637	3371793.94	5.6920	A	2.4
8	☐	100000.00	100133.07	18305320.32	28.8227	A	0.4

$$y = 2.8784\text{E-}004 * x + 3.3458\text{E-}004$$

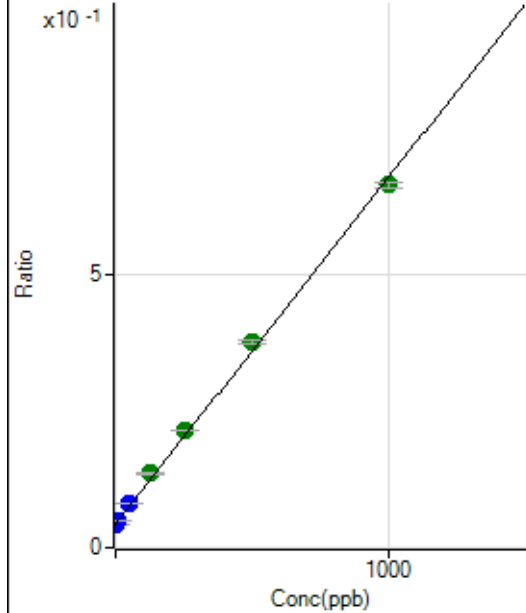
$$R = 1.0000$$

$$DL = 0.1504$$

$$BEC = 1.162$$

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	431975.70	0.0432	P	1.0
2	☐	10.000	10.938	498630.67	0.0501	P	1.4
3	☐	50.000	57.855	804561.59	0.0799	P	1.2
4	☐	125.000	146.758	1287569.92	0.1362	A	3.5
5	☐	250.000	272.448	1985304.19	0.2159	A	0.3
6	☐	500.000	525.259	3226238.05	0.3763	A	1.7
7	☐	1000.000	978.637	5346002.12	0.6637	A	1.2
8	☐			648103.12	0.0834	P	1.2

$$y = 6.3408\text{E-}004 * x + 0.0432$$

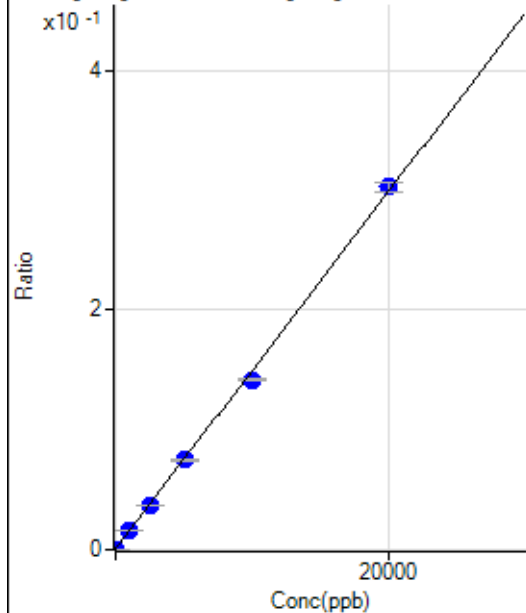
$$R = 0.9991$$

$$DL = 1.956$$

$$BEC = 68.12$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.541	288.90	0.0003	P	16.1
2	☐	0.000	9.541	525.02	0.0006	P	11.1
3	☐	1000.000	1025.474	12769.55	0.0158	P	1.5
4	☐	2500.000	2445.762	28557.72	0.0370	P	1.8
5	☐	5000.000	4982.417	52142.30	0.0748	P	2.0
6	☐	10000.000	9488.376	93817.80	0.1420	P	1.3
7	☐	20000.000	20265.714	179339.43	0.3027	P	2.5
8	☐			1013.94	0.0016	P	1.1

$$y = 1.4915\text{E-}005 * x + 4.9014\text{E-}004$$

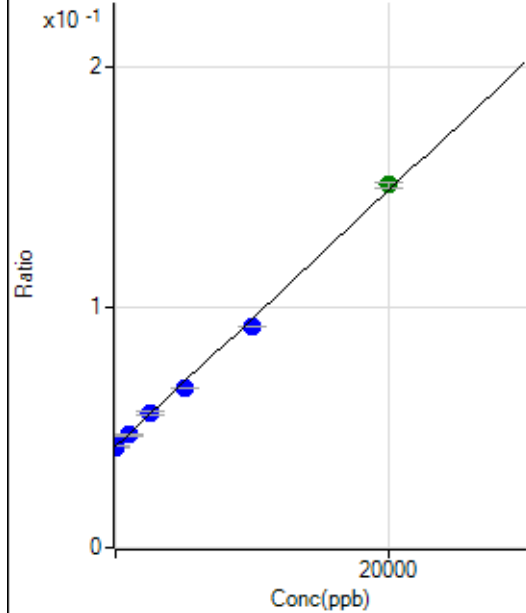
$$R = 0.9995$$

$$DL = 12.67$$

$$BEC = 32.86$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-76.047	416620.49	0.0417	P	0.3
2	☐	0.000	76.047	422430.61	0.0425	P	1.1
3	☐	1000.000	889.470	471373.65	0.0468	P	0.7
4	☐	2500.000	2637.358	530183.03	0.0561	P	2.9
5	☐	5000.000	4559.938	609845.06	0.0663	P	0.9
6	☐	10000.000	9358.789	788012.39	0.0919	P	0.1
7	☐	20000.000	20418.978	1214310.30	0.1508	A	1.6
8	☐			296322.85	0.0381	P	0.4

$$y = 5.3237E-006 * x + 0.0421$$

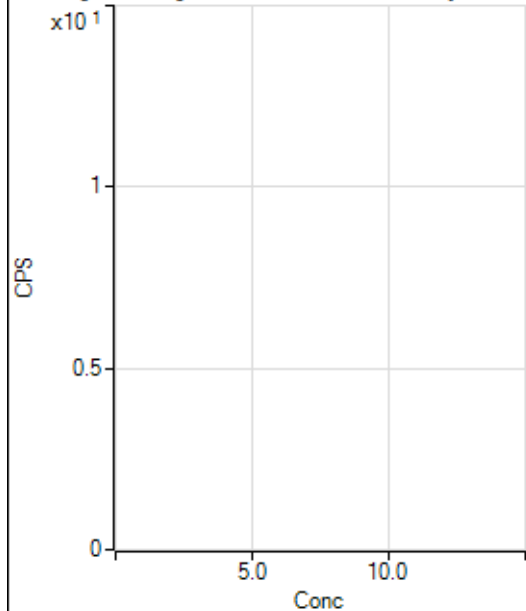
R = 0.9989

DL = 159.7

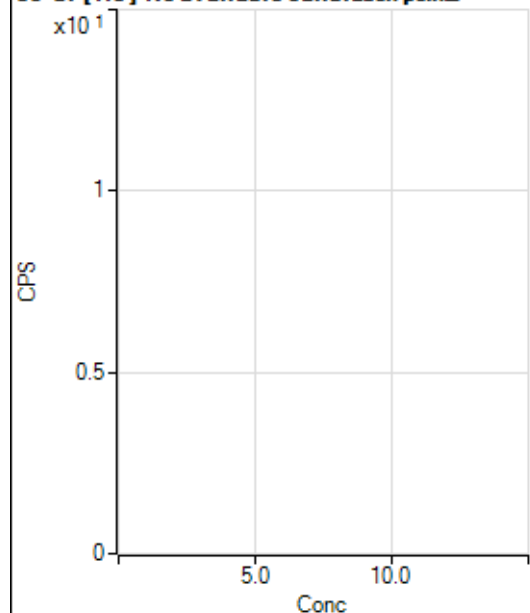
BEC = 7901

Weight: <None>

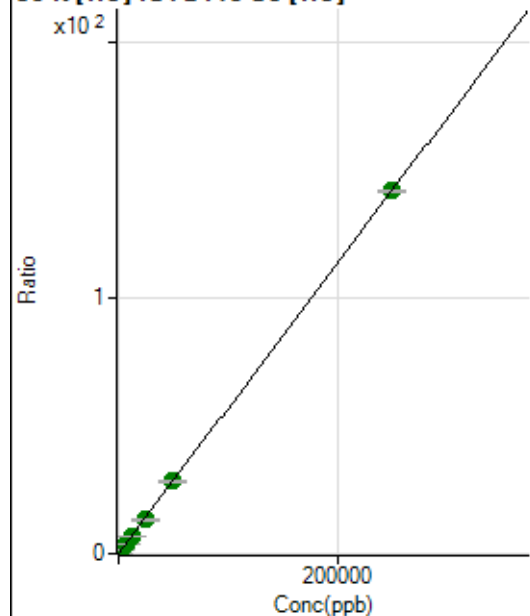
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j 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	67014.69	0.0807	P	1.2
2	☐	500.000	516.347	309928.86	0.3733	P	0.5
3	☐	2500.000	2488.253	1205809.40	1.4908	A	2.1
4	☐	6250.000	6034.758	2704168.66	3.5006	A	0.9
5	☐	12500.000	11968.088	4784077.15	6.8630	A	0.4
6	☐	25000.000	23085.799	8696604.97	13.1634	A	0.6
7	☐	50000.000	49835.178	16776575.20	28.3223	A	2.8
8	☐	250000.00	250256.44	90120430.48	141.9011	A	0.6

$$y = 5.6670\text{E-}004 * x + 0.0807$$

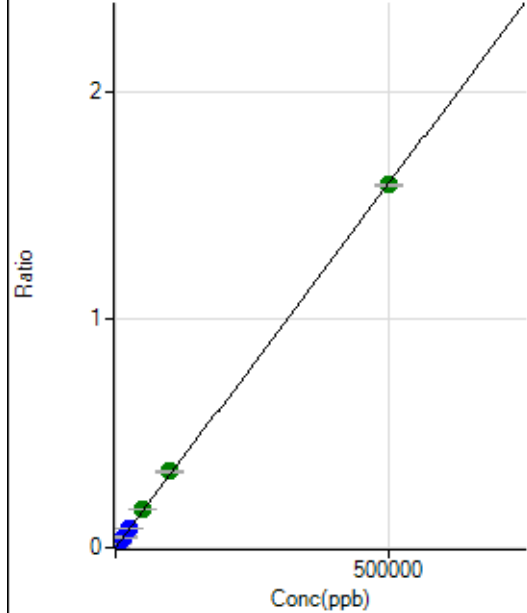
$$R = 1.0000$$

$$DL = 4.935$$

$$BEC = 142.4$$

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	541.69	0.0001	P	8.1
2	☐	500.000	487.080	15986.55	0.0016	P	1.1
3	☐	5000.000	5596.975	180252.99	0.0179	P	1.0
4	☐	12500.000	14377.856	433612.41	0.0459	P	3.4
5	☐	25000.000	27684.753	811809.42	0.0883	P	0.2
6	☐	50000.000	52143.498	1425905.21	0.1663	A	1.1
7	☐	100000.00	105068.91	2697880.57	0.3350	A	2.1
8	☐	500000.00	498584.72	12352016.51	1.5894	A	0.3

$$y = 3.1877\text{E-}006 * x + 5.4161\text{E-}005$$

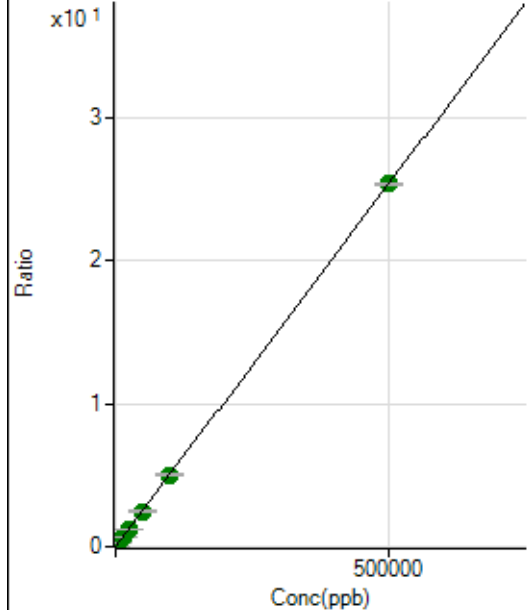
$$R = 0.9999$$

$$DL = 4.144$$

$$BEC = 16.99$$

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	17697.26	0.0018	P	1.3
2	☐	500.000	498.087	268816.93	0.0270	P	1.6
3	☐	5000.000	5089.207	2617014.08	0.2598	A	1.4
4	☐	12500.000	12744.271	6123551.05	0.6480	A	3.2
5	☐	25000.000	24722.879	11540805.99	1.2553	A	0.4
6	☐	50000.000	49031.295	21336423.39	2.4879	A	0.9
7	☐	100000.00	98580.884	40272002.29	5.0003	A	2.2
8	☐	500000.00	500387.55	197205755.8	25.3740	A	0.8

$$y = 5.0705\text{E-}005 * x + 0.0018$$

$$R = 1.0000$$

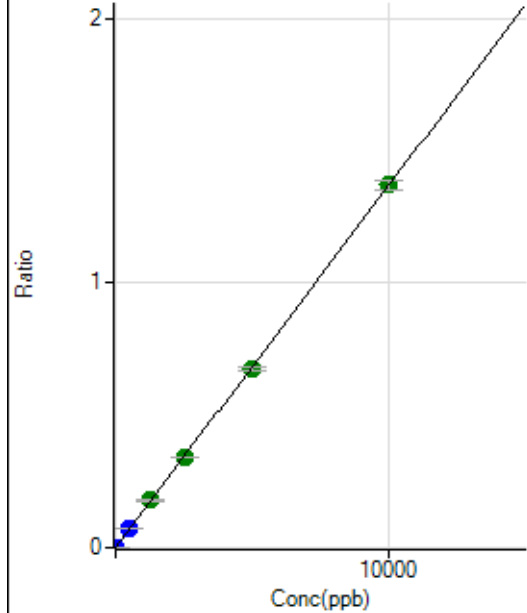
$$DL = 1.341$$

$$BEC = 34.9$$

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	147.23	0.0000	P	23.1
2	☐	5.000	5.226	7254.74	0.0007	P	6.5
3	☐	500.000	533.724	735620.50	0.0730	P	0.2
4	☐	1250.000	1305.524	1687979.16	0.1786	A	3.2
5	☐	2500.000	2502.893	3148002.31	0.3424	A	0.4
6	☐	5000.000	4936.332	5791335.81	0.6753	A	1.3
7	☐	10000.000	10022.484	11042389.22	1.3711	A	2.8
8	☐			40825.21	0.0053	P	1.0

$$y = 1.3680E-004 * x + 1.4727E-005$$

$$R = 0.9999$$

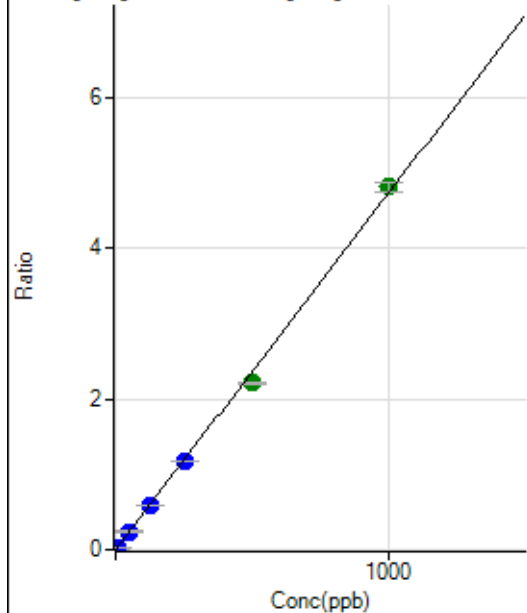
$$DL = 0.07464$$

$$BEC = 0.1076$$

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	13.33	0.0000	P	24.9
2	☐	5.000	4.840	19025.41	0.0229	P	0.5
3	☐	50.000	51.131	195706.16	0.2419	P	0.5
4	☐	125.000	122.734	448598.64	0.5807	P	0.2
5	☐	250.000	246.171	811907.71	1.1648	P	0.3
6	☐	500.000	466.886	1459472.39	2.2091	A	0.8
7	☐	1000.000	1017.742	2852592.94	4.8154	A	2.3
8	☐			11405.49	0.0180	P	1.3

$$y = 0.0047 * x + 1.6058E-005$$

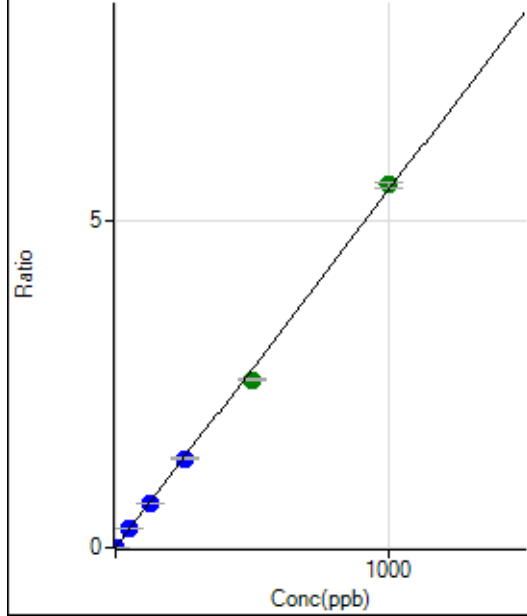
$$R = 0.9992$$

$$DL = 0.002539$$

$$BEC = 0.003394$$

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	1502.31	0.0018	P	5.2
2	☐	2.000	1.965	10441.46	0.0126	P	0.7
3	☐	50.000	51.749	230786.37	0.2853	P	0.9
4	☐	125.000	125.174	531125.77	0.6876	P	0.3
5	☐	250.000	249.652	954620.32	1.3695	P	0.5
6	☐	500.000	470.025	1702438.53	2.5768	A	1.5
7	☐	1000.000	1014.965	3295248.42	5.5622	A	1.9
8	☐			22755.02	0.0358	P	0.6

$$y = 0.0055 * x + 0.0018$$

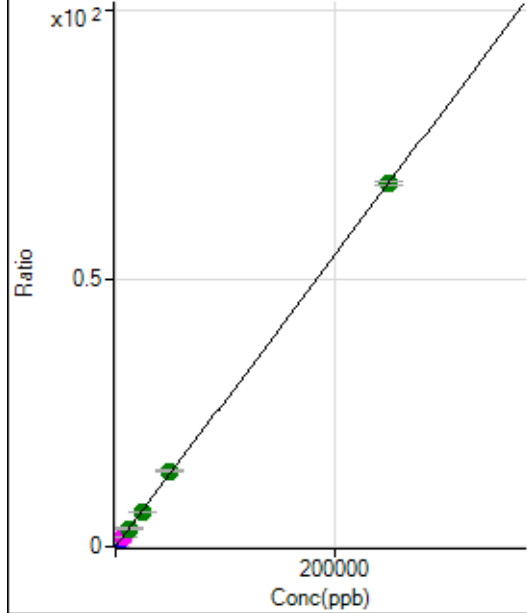
$$R = 0.9993$$

$$DL = 0.05194$$

$$BEC = 0.3303$$

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	1661.80	0.0020	P	9.5
2	☐	50.000	50.489	13019.06	0.0157	P	2.0
3	☐	2500.000	2744.821	603206.75	0.7457	P	0.4
4	☐	6250.000	6401.912	1341452.89	1.7366	M	2.0
5	☐	12500.000	12561.714	2373694.89	3.4055	A	1.1
6	☐	25000.000	24261.209	4344227.62	6.5755	A	0.5
7	☐	50000.000	52194.058	8377880.60	14.1438	A	2.8
8	☐	250000.00	249625.73	42956419.07	67.6371	A	0.9

$$y = 2.7095E-004 * x + 0.0020$$

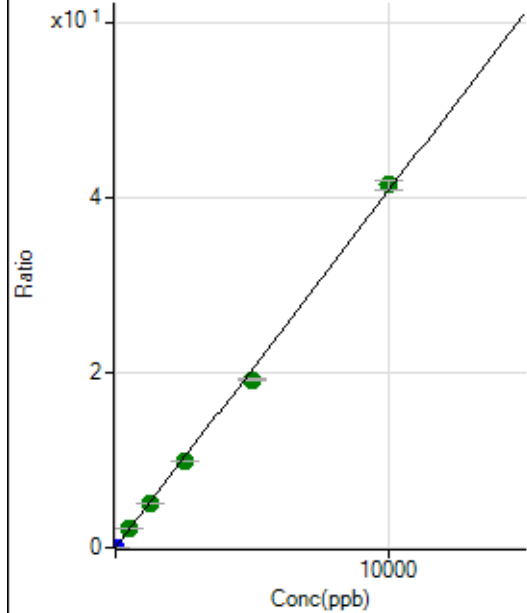
$$R = 0.9999$$

$$DL = 2.112$$

$$BEC = 7.388$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	276.67	0.0003	P	12.8
2	☐	1.000	1.065	3887.21	0.0047	P	1.6
3	☐	500.000	514.798	1700845.67	2.1026	A	0.5
4	☐	1250.000	1218.364	3843635.53	4.9757	A	0.5
5	☐	2500.000	2431.679	6921541.29	9.9304	A	1.1
6	☐	5000.000	4710.196	12707880.92	19.2349	A	0.7
7	☐	10000.000	10165.197	24589264.36	41.5111	A	2.7
8	☐			105255.76	0.1657	P	0.9

$$y = 0.0041 * x + 3.3315E-004$$

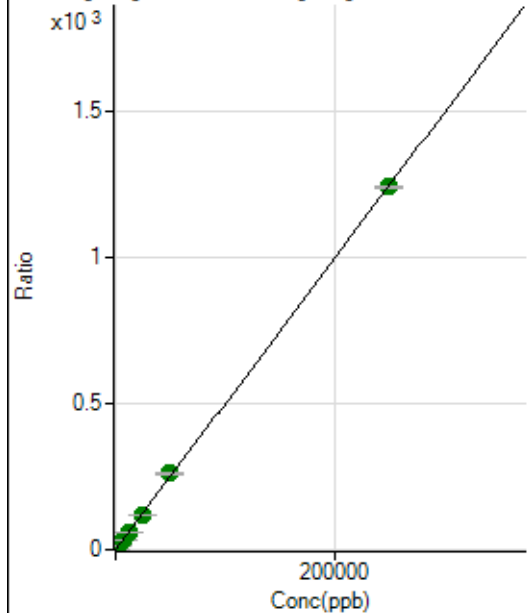
$$R = 0.9993$$

$$DL = 0.03132$$

$$BEC = 0.08158$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16018.05	0.0193	P	3.3
2	☐	50.000	50.422	224028.88	0.2699	P	0.7
3	☐	2500.000	2561.908	10313632.99	12.7500	A	0.2
4	☐	6250.000	6235.841	23952390.12	31.0067	A	0.9
5	☐	12500.000	12475.742	43227337.08	62.0142	A	0.6
6	☐	25000.000	23982.544	78745425.84	119.1943	A	0.8
7	☐	50000.000	52272.885	153881336.7	259.7758	A	2.6
8	☐	250000.00	249648.11	787894313.9	1,240.580	A	0.4

$$y = 0.0050 * x + 0.0193$$

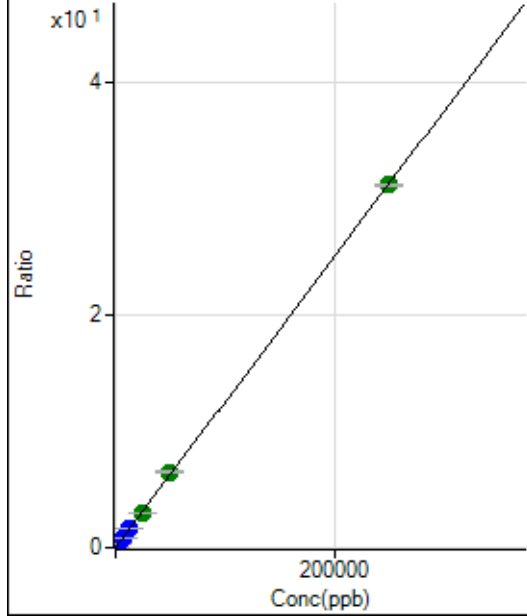
$$R = 0.9999$$

$$DL = 0.3826$$

$$BEC = 3.882$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	629.66	0.0008	P	11.8
2	☐	50.000	53.968	6219.92	0.0075	P	4.0
3	☐	2500.000	2641.423	267213.85	0.3303	P	0.8
4	☐	6250.000	6427.819	620119.33	0.8028	P	0.6
5	☐	12500.000	12891.693	1121718.63	1.6093	P	0.7
6	☐	25000.000	24016.068	1980200.80	2.9973	A	0.6
7	☐	50000.000	51839.864	3831889.24	6.4689	A	2.6
8	☐	250000.00	249704.97	19787789.10	31.1569	A	0.6

$$y = 1.2477\text{E-}004 * x + 7.5852\text{E-}004$$

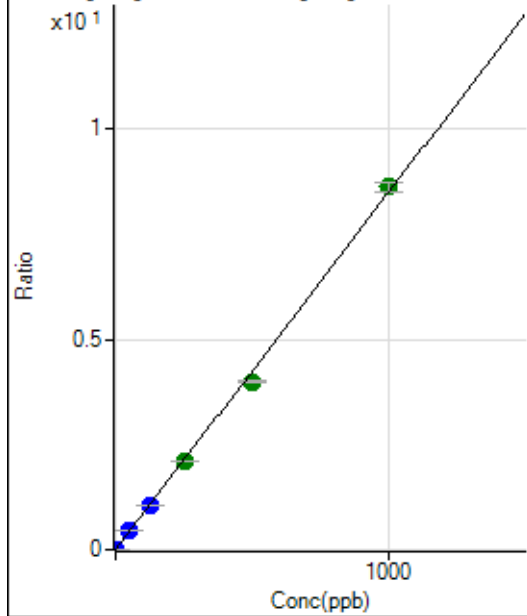
$$R = 1.0000$$

$$DL = 2.15$$

$$BEC = 6.079$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0002	P	8.0
2	☐	1.000	0.994	7181.77	0.0087	P	1.7
3	☐	50.000	51.921	356545.85	0.4408	P	0.8
4	☐	125.000	125.276	821295.20	1.0632	P	0.4
5	☐	250.000	246.540	1458315.58	2.0921	A	0.5
6	☐	500.000	469.740	2633393.28	3.9860	A	0.9
7	☐	1000.000	1015.865	5106099.27	8.6200	A	2.6
8	☐			33834.78	0.0533	P	1.7

$$y = 0.0085 * x + 2.1415\text{E-}004$$

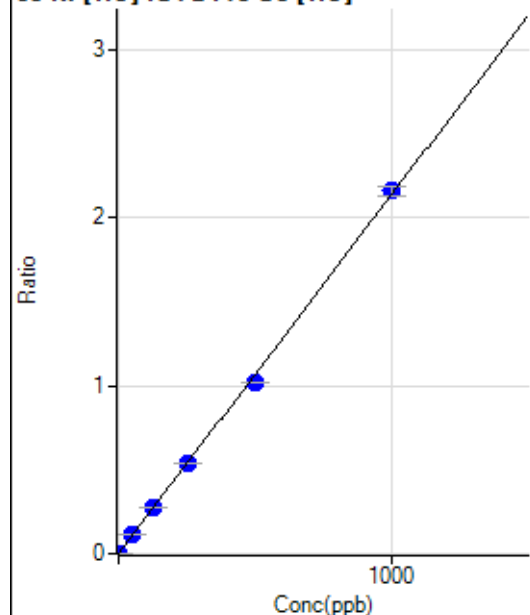
$$R = 0.9993$$

$$DL = 0.006028$$

$$BEC = 0.02524$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	83.33	0.0001	P	20.9
2	☐	1.000	1.022	1894.58	0.0023	P	4.1
3	☐	50.000	52.722	91133.38	0.1127	P	1.7
4	☐	125.000	126.970	209497.02	0.2712	P	0.6
5	☐	250.000	253.056	376702.75	0.5404	P	0.5
6	☐	500.000	476.250	671873.75	1.0170	P	0.5
7	☐	1000.000	1010.729	1278347.07	2.1582	P	2.9
8	☐			9329.65	0.0147	P	2.8

$$y = 0.0021 * x + 1.0031E-004$$

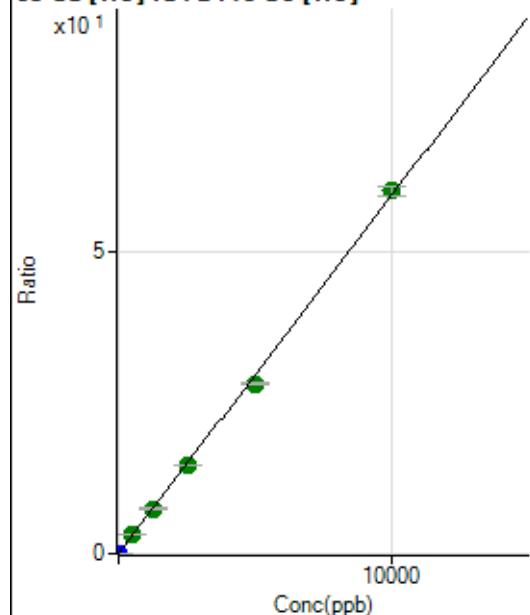
$$R = 0.9996$$

$$DL = 0.02941$$

$$BEC = 0.04698$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	842.25	0.0010	P	6.1
2	☐	2.000	2.001	10698.36	0.0129	P	1.6
3	☐	500.000	523.621	2513719.79	3.1077	A	2.1
4	☐	1250.000	1254.658	5751064.08	7.4450	A	1.3
5	☐	2500.000	2481.683	10263914.78	14.7251	A	0.8
6	☐	5000.000	4738.964	18576115.28	28.1177	A	0.8
7	☐	10000.000	10133.334	35615247.80	60.1230	A	2.5
8	☐			124928.50	0.1967	P	0.5

$$y = 0.0059 * x + 0.0010$$

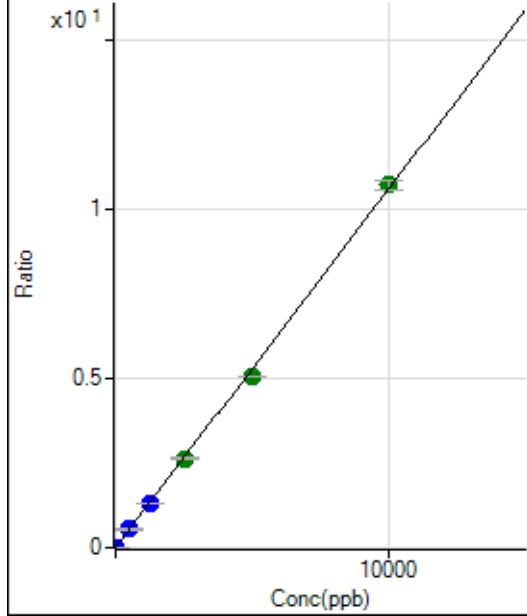
$$R = 0.9995$$

$$DL = 0.03113$$

$$BEC = 0.171$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.35	0.0007	P	4.3
2	☐	2.000	2.089	2411.33	0.0029	P	2.7
3	☐	500.000	510.767	438529.68	0.5421	P	1.0
4	☐	1250.000	1233.286	1010443.54	1.3081	P	0.7
5	☐	2500.000	2479.571	1832505.77	2.6292	A	1.4
6	☐	5000.000	4764.041	3336933.70	5.0509	A	0.2
7	☐	10000.000	10124.638	6358300.11	10.7336	A	2.4
8	☐			31060.06	0.0489	P	0.6

$$y = 0.0011 * x + 6.9055E-004$$

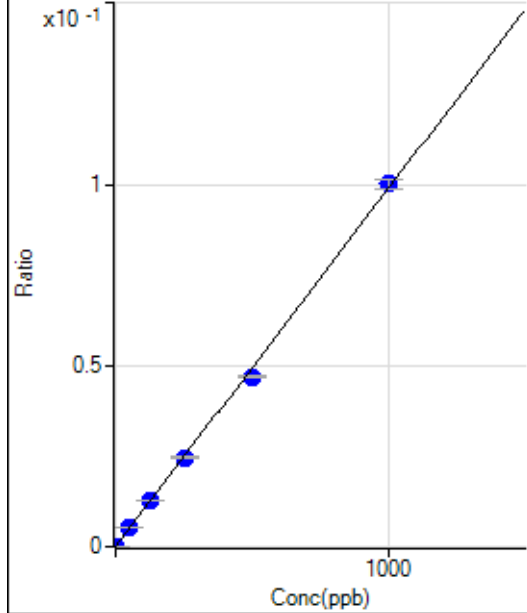
$$R = 0.9996$$

$$DL = 0.08435$$

$$BEC = 0.6514$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.81	0.0000	P	11.9
2	☐	1.000	1.100	595.69	0.0001	P	3.0
3	☐	50.000	53.883	28030.69	0.0053	P	1.8
4	☐	125.000	128.878	64833.59	0.0127	P	3.1
5	☐	250.000	248.980	117089.91	0.0246	P	1.0
6	☐	500.000	474.115	215281.68	0.0469	P	1.0
7	☐	1000.000	1012.519	417451.46	0.1001	P	2.5
8	☐			1592.69	0.0004	P	3.3

$$y = 9.8906E-005 * x + 2.7916E-006$$

$$R = 0.9995$$

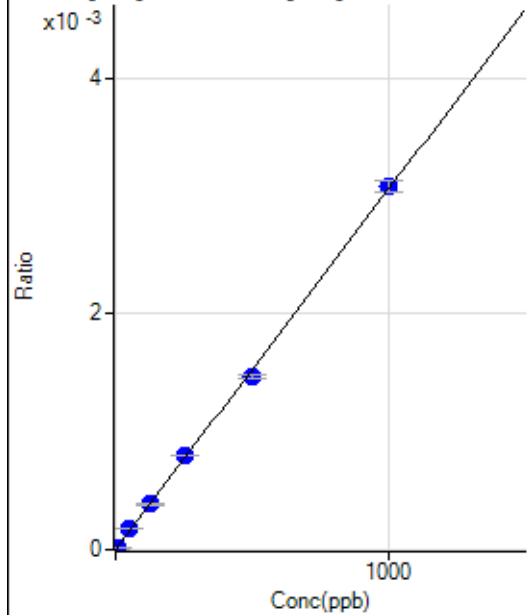
$$DL = 0.01009$$

$$BEC = 0.02822$$

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	4.361	72.22	0.0000	P	17.7
3	☐	50.000	57.689	927.82	0.0002	P	3.3
4	☐	125.000	127.718	1985.71	0.0004	P	4.4
5	☐	250.000	261.221	3797.19	0.0008	P	1.7
6	☐	500.000	479.409	6727.16	0.0015	P	2.4
7	☐	1000.000	1006.769	12824.53	0.0031	P	3.4
8	☐			44.44	0.0000	P	11.0

$$y = 3.0562\text{E-}006 * x + 2.0704\text{E-}007$$

$$R = 0.9996$$

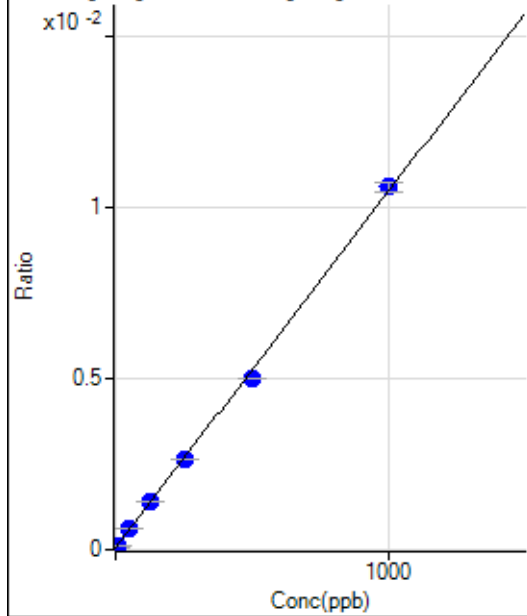
$$DL = 0.352$$

$$BEC = 0.06774$$

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	297.54	0.0001	P	3.4
2	☐	5.000	4.570	553.10	0.0001	P	2.4
3	☐	50.000	53.348	3212.71	0.0006	P	1.4
4	☐	125.000	130.128	7170.28	0.0014	P	0.9
5	☐	250.000	248.833	12571.40	0.0026	P	1.0
6	☐	500.000	474.183	22899.76	0.0050	P	0.9
7	☐	1000.000	1012.394	44127.63	0.0106	P	2.6
8	☐			345.69	0.0001	P	6.9

$$y = 1.0401\text{E-}005 * x + 5.6114\text{E-}005$$

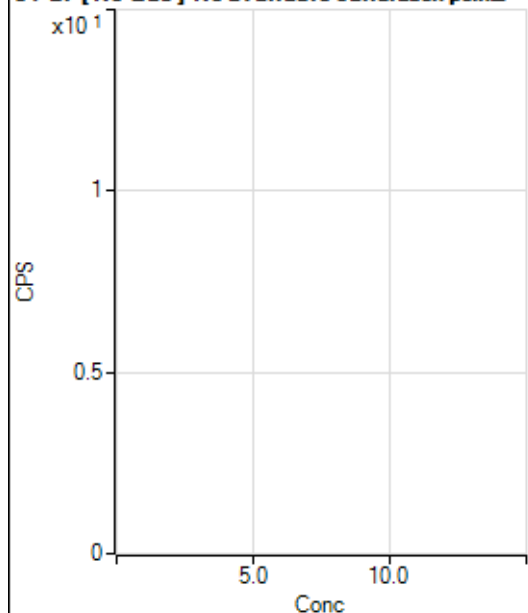
$$R = 0.9995$$

$$DL = 0.5423$$

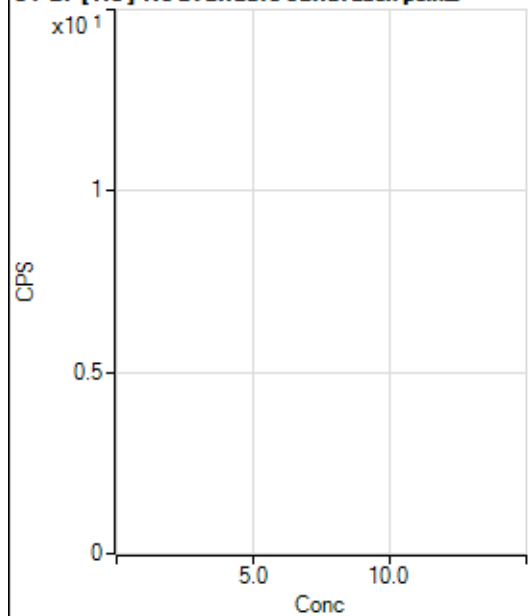
$$BEC = 5.395$$

Weight: <None>

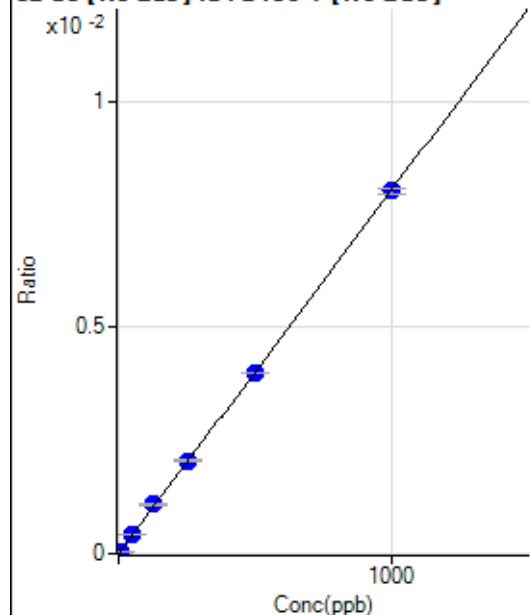
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17811.13		P	1.6
2	☐			17802.81		P	1.1
3	☐			17502.48		P	3.0
4	☐			16682.07		P	1.0
5	☐			14927.35		P	3.4
6	☐			13645.49		P	2.9
7	☐			13081.12		P	1.6
8	☐			13134.00		P	2.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			123.46		P	24.8
2	☐			80.08		P	57.3
3	☐			90.09		P	22.2
4	☐			110.11		P	0.0
5	☐			103.44		P	11.2
6	☐			76.74		P	15.1
7	☐			90.09		P	22.2
8	☐			53.39		P	57.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.42	0.0000	P	51.7
2	☐	5.000	5.204	901.15	0.0000	P	3.6
3	☐	50.000	54.376	9284.50	0.0004	P	0.9
4	☐	125.000	136.357	21970.49	0.0011	P	3.2
5	☐	250.000	255.582	41771.05	0.0021	P	1.1
6	☐	500.000	497.705	78268.17	0.0040	P	0.4
7	☐	1000.000	998.113	148056.51	0.0080	P	1.6
8	☐			651.23	0.0000	P	12.2

$$y = 8.0258\text{E-}006 * x + 1.0560\text{E-}006$$

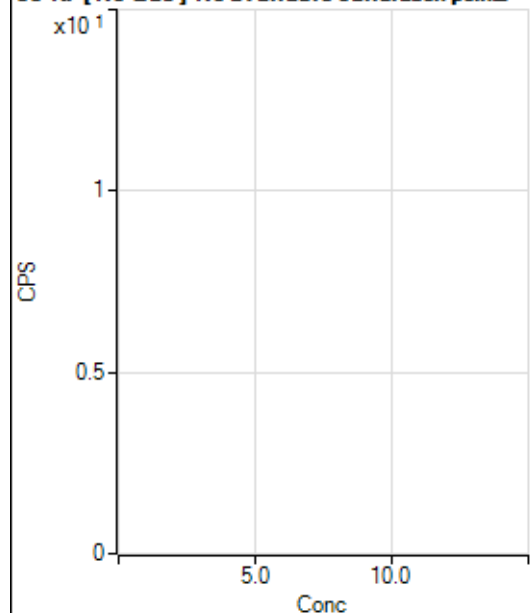
$$R = 0.9999$$

$$DL = 0.2042$$

$$BEC = 0.1316$$

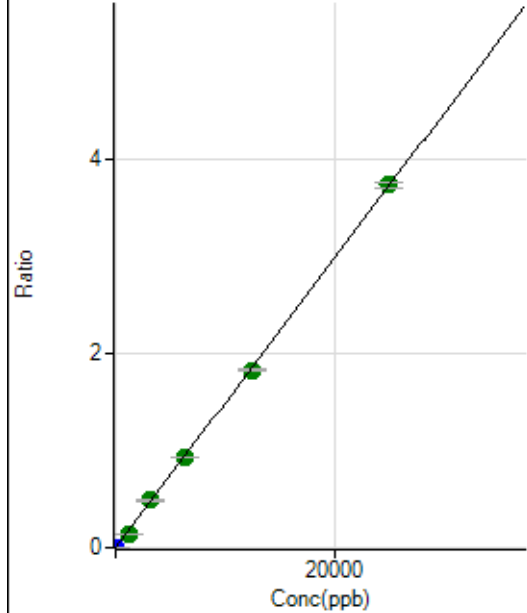
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			850.03		P	5.4
2	☐			868.92		P	4.2
3	☐			881.15		P	4.1
4	☐			803.36		P	6.1
5	☐			810.03		P	6.4
6	☐			700.02		P	5.2
7	☐			714.47		P	5.6
8	☐			697.80		P	4.0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1291.76	0.0001	P	10.4
2	☐	1.000	1.015	4467.46	0.0002	P	5.8
3	☐	1250.000	921.192	2907534.55	0.1370	A	1.5
4	☐	3125.000	3268.836	9750094.92	0.4860	A	1.8
5	☐	6250.000	6247.903	18907983.93	0.9289	A	0.6
6	☐	12500.000	12299.701	35820014.34	1.8286	A	0.8
7	☐	25000.000	25099.134	68957038.35	3.7315	A	1.7
8	☐			110199.86	0.0064	P	4.3

$$y = 1.4867E-004 * x + 6.1483E-005$$

$$R = 0.9998$$

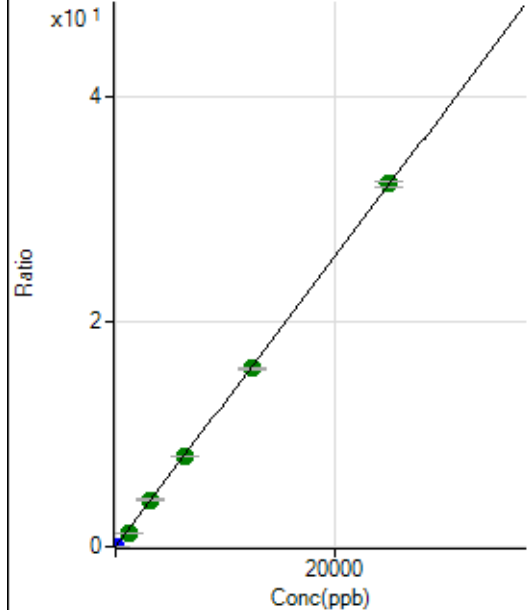
$$DL = 0.1286$$

$$BEC = 0.4136$$

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	636.14	0.0000	P	11.2
2	☐	1.000	1.010	27890.88	0.0013	P	1.6
3	☐	1250.000	913.574	24874642.92	1.1721	A	1.4
4	☐	3125.000	3258.254	83850882.43	4.1803	A	2.4
5	☐	6250.000	6215.112	162304098.0	7.9739	A	0.2
6	☐	12500.000	12331.797	309922248.5	15.8214	A	0.7
7	☐	25000.000	25092.988	594929529.9	32.1937	A	1.8
8	☐			948913.39	0.0549	P	4.0

$$y = 0.0013 * x + 3.0301E-005$$

$$R = 0.9999$$

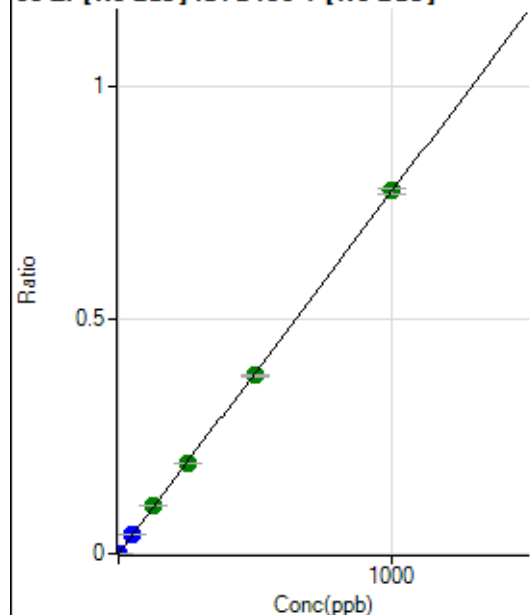
$$DL = 0.007952$$

$$BEC = 0.02362$$

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	933.39	0.0000	P	5.3
2	☐	1.000	0.989	17043.58	0.0008	P	1.1
3	☐	50.000	53.744	883760.82	0.0416	P	1.4
4	☐	125.000	131.922	2049210.83	0.1022	A	2.4
5	☐	250.000	250.283	3944107.55	0.1938	A	1.1
6	☐	500.000	492.407	7467277.42	0.3812	A	0.6
7	☐	1000.000	1002.673	14344031.40	0.7762	A	1.7
8	☐			59961.95	0.0035	P	1.5

$$y = 7.7406\text{E-}004 * x + 4.4369\text{E-}005$$

$$R = 0.9999$$

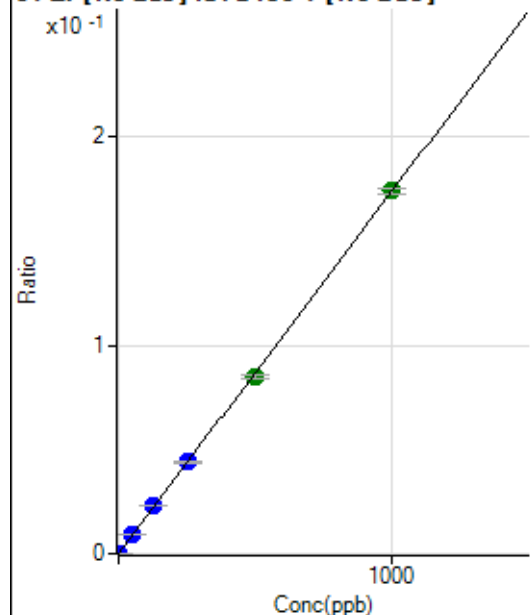
$$DL = 0.009067$$

$$BEC = 0.05732$$

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	141.67	0.0000	P	37.9
2	☐	1.000	1.028	3897.83	0.0002	P	4.7
3	☐	50.000	53.971	199037.17	0.0094	P	1.1
4	☐	125.000	132.733	462474.01	0.0231	P	2.7
5	☐	250.000	253.870	897415.04	0.0441	P	1.4
6	☐	500.000	489.841	1666431.22	0.0851	A	1.5
7	☐	1000.000	1002.947	3218738.49	0.1742	A	1.8
8	☐			13467.59	0.0008	P	3.9

$$y = 1.7365\text{E-}004 * x + 6.7851\text{E-}006$$

$$R = 0.9999$$

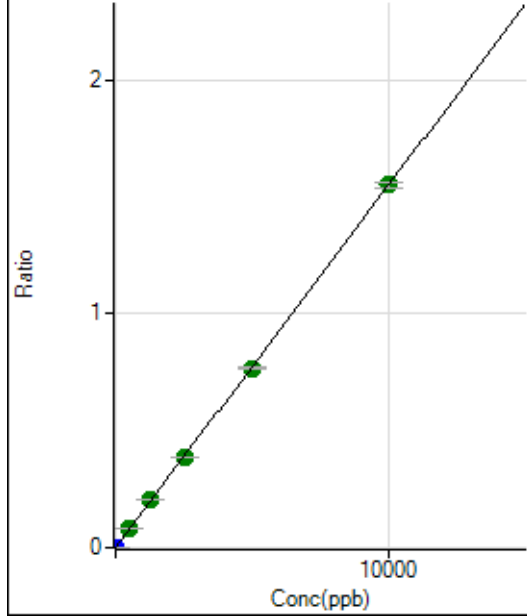
$$DL = 0.0444$$

$$BEC = 0.03907$$

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	266.68	0.0000	P	5.2
2	☐	5.000	5.952	19674.78	0.0009	P	2.8
3	☐	500.000	535.568	1761564.91	0.0830	A	1.5
4	☐	1250.000	1324.346	4117379.13	0.2053	A	2.0
5	☐	2500.000	2492.914	7863874.74	0.3864	A	0.6
6	☐	5000.000	4959.948	15057706.24	0.7687	A	0.5
7	☐	10000.000	10010.725	28670618.70	1.5514	A	1.7
8	☐			108693.86	0.0063	P	0.2

$$y = 1.5498\text{E-}004 * x + 1.2660\text{E-}005$$

$$R = 1.0000$$

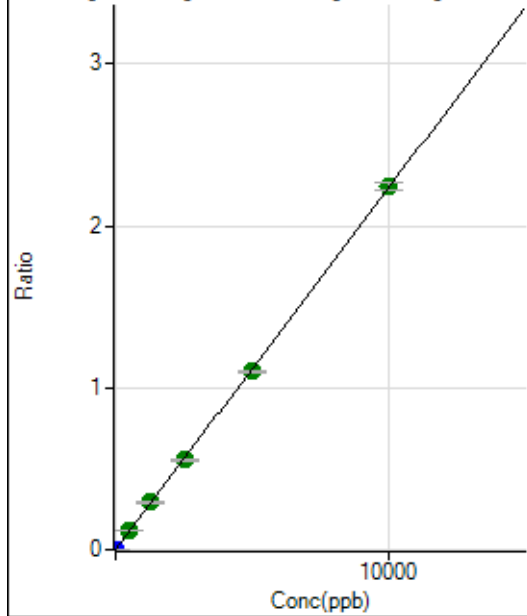
$$DL = 0.01265$$

$$BEC = 0.08169$$

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	25.00	0.0000	P	34.2
2	☐	5.000	5.044	23728.03	0.0011	P	1.6
3	☐	500.000	534.489	2533596.04	0.1194	A	1.0
4	☐	1250.000	1314.699	5890433.25	0.2936	A	2.0
5	☐	2500.000	2478.861	11268804.51	0.5537	A	1.4
6	☐	5000.000	4923.902	21543158.47	1.0998	A	0.9
7	☐	10000.000	10033.522	41413625.93	2.2410	A	2.0
8	☐			151404.03	0.0088	P	2.0

$$y = 2.2336\text{E-}004 * x + 1.1894\text{E-}006$$

$$R = 0.9999$$

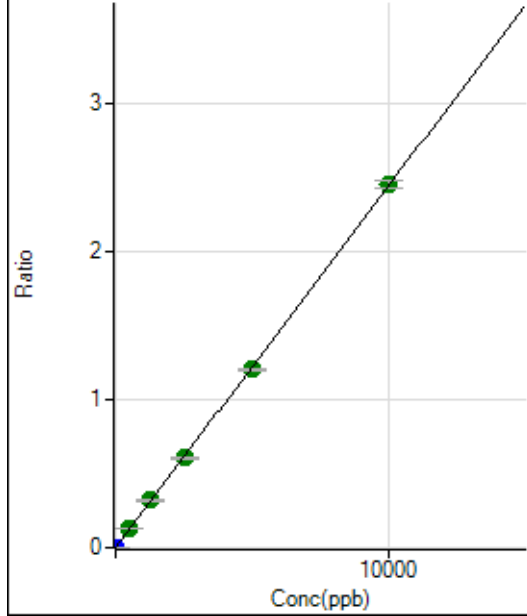
$$DL = 0.005471$$

$$BEC = 0.005325$$

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	175.01	0.0000	P	44.7
2	☐	5.000	5.274	27320.63	0.0013	P	1.1
3	☐	500.000	534.910	2777016.99	0.1309	A	1.5
4	☐	1250.000	1313.972	6447742.29	0.3214	A	2.3
5	☐	2500.000	2478.398	12340010.26	0.6063	A	1.0
6	☐	5000.000	4924.241	23596080.56	1.2046	A	1.0
7	☐	10000.000	10033.538	45356641.29	2.4544	A	2.1
8	☐			172330.60	0.0100	P	1.3

$$y = 2.4462\text{E-}004 * x + 8.2827\text{E-}006$$

$$R = 0.9999$$

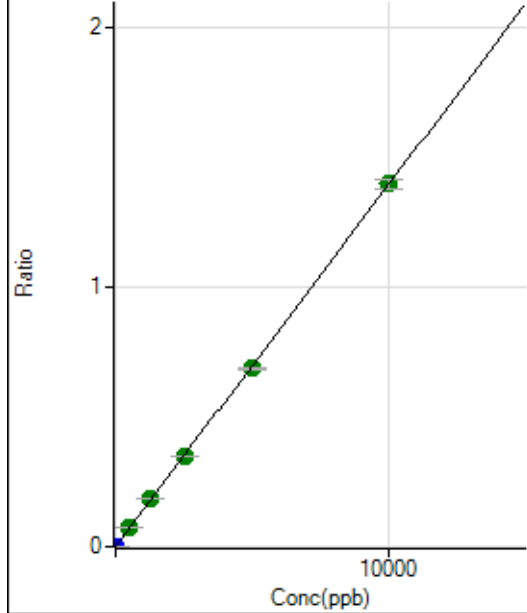
$$DL = 0.0454$$

$$BEC = 0.03386$$

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	19.44	0.0000	P	67.1
2	☐	5.000	5.333	15630.95	0.0007	P	2.5
3	☐	500.000	537.184	1586085.13	0.0747	A	1.5
4	☐	1250.000	1319.464	3682734.81	0.1836	A	2.0
5	☐	2500.000	2490.041	7051830.80	0.3465	A	0.5
6	☐	5000.000	4928.687	13433179.64	0.6858	A	0.6
7	☐	10000.000	10027.604	25781643.63	1.3952	A	2.4
8	☐			96087.95	0.0056	P	0.9

$$y = 1.3914\text{E-}004 * x + 9.3440\text{E-}007$$

$$R = 0.9999$$

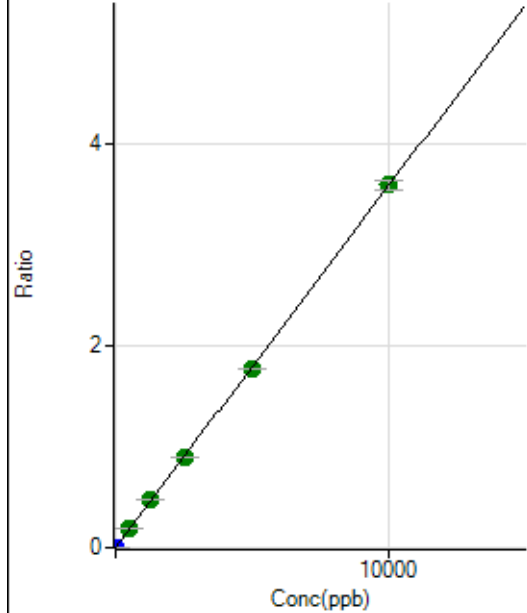
$$DL = 0.01352$$

$$BEC = 0.006716$$

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	97.22	0.0000	P	19.4
2	☐	5.000	5.138	38790.98	0.0018	P	1.0
3	☐	500.000	526.810	4001385.25	0.1886	A	1.3
4	☐	1250.000	1316.159	9449812.10	0.4711	A	2.0
5	☐	2500.000	2483.022	18089030.79	0.8887	A	0.8
6	☐	5000.000	4930.363	34567983.41	1.7647	A	0.4
7	☐	10000.000	10029.452	66332309.12	3.5897	A	2.6
8	☐			244175.13	0.0141	P	1.0

$$y = 3.5792\text{E-}004 * x + 4.6081\text{E-}006$$

$$R = 0.9999$$

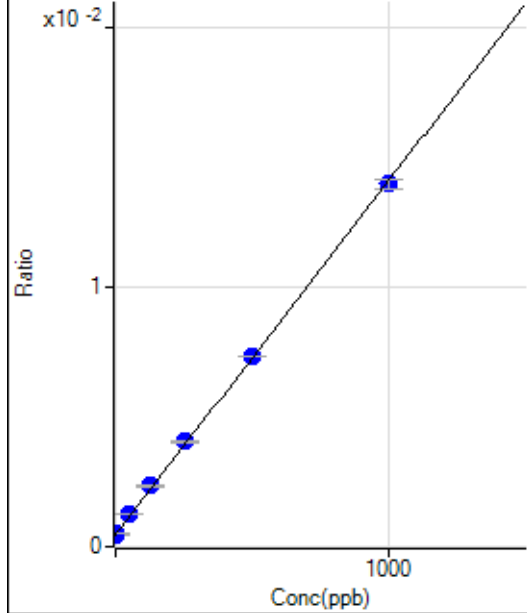
$$DL = 0.007476$$

$$BEC = 0.01287$$

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	8272.00	0.0005	P	3.1
2	☐	1.000	2.794	8775.12	0.0005	P	3.3
3	☐	50.000	59.956	22935.23	0.0013	P	1.5
4	☐	125.000	139.441	41771.88	0.0024	P	3.8
5	☐	250.000	263.903	72355.86	0.0041	P	1.5
6	☐	500.000	505.038	132698.28	0.0074	P	0.5
7	☐	1000.000	991.700	242946.30	0.0140	P	2.7
8	☐			7529.95	0.0005	P	0.4

$$y = 1.3642\text{E-}005 * x + 4.6306\text{E-}004$$

$$R = 0.9998$$

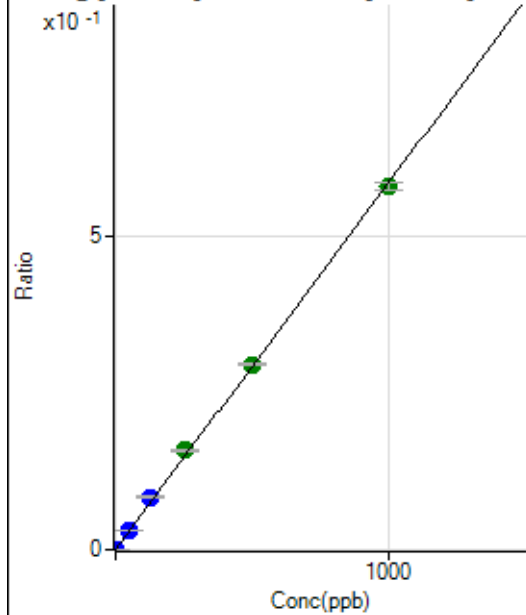
$$DL = 3.188$$

$$BEC = 33.94$$

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	102.78	0.0000	P	46.1
2	☐	1.000	0.849	8786.28	0.0005	P	9.3
3	☐	50.000	52.939	553784.97	0.0309	P	1.2
4	☐	125.000	143.821	1483742.96	0.0840	P	3.4
5	☐	250.000	271.230	2821193.25	0.1584	A	1.9
6	☐	500.000	505.895	5332939.57	0.2955	A	1.2
7	☐	1000.000	989.246	10033399.96	0.5778	A	2.2
8	☐			32072.09	0.0020	P	2.2

$$y = 5.8411\text{E-}004 * x + 5.7305\text{E-}006$$

$$R = 0.9996$$

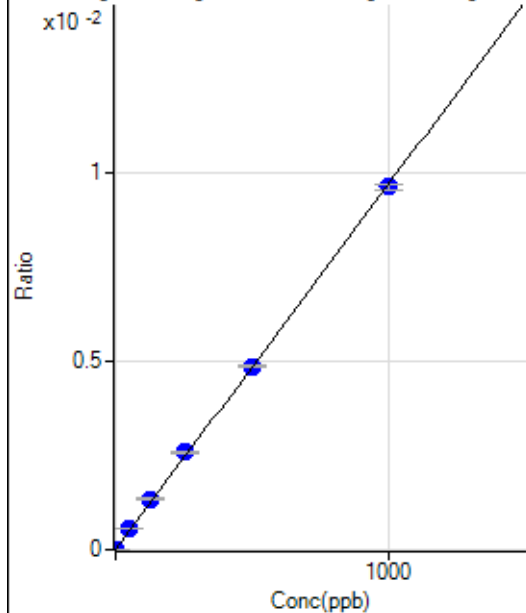
$$DL = 0.01355$$

$$BEC = 0.009811$$

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	56.94	0.0000	P	12.5
2	☐	1.000	1.212	261.11	0.0000	P	25.3
3	☐	50.000	59.537	10374.65	0.0006	P	1.0
4	☐	125.000	138.881	23793.23	0.0013	P	4.4
5	☐	250.000	267.204	46110.54	0.0026	P	1.7
6	☐	500.000	501.386	87637.55	0.0049	P	0.5
7	☐	1000.000	992.794	166918.62	0.0096	P	1.9
8	☐			659.75	0.0000	P	5.3

$$y = 9.6792\text{E-}006 * x + 3.1920\text{E-}006$$

$$R = 0.9998$$

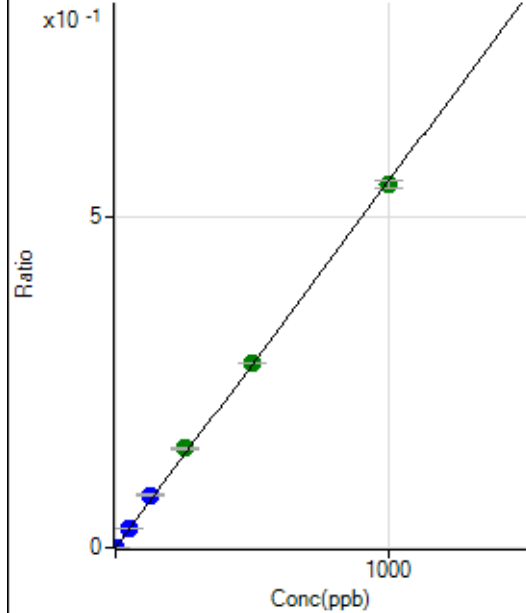
$$DL = 0.124$$

$$BEC = 0.3298$$

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	30.56	0.0000	P	42.2
2	☐	1.000	0.873	8486.06	0.0005	P	13.1
3	☐	50.000	53.563	530810.36	0.0296	P	1.9
4	☐	125.000	144.301	1410546.00	0.0799	P	2.8
5	☐	250.000	271.700	2677614.40	0.1504	A	1.7
6	☐	500.000	503.685	5030407.32	0.2787	A	0.2
7	☐	1000.000	990.142	9514917.83	0.5480	A	2.1
8	☐			30488.23	0.0019	P	2.8

$$y = 5.5341\text{E-}004 * x + 1.7126\text{E-}006$$

$$R = 0.9996$$

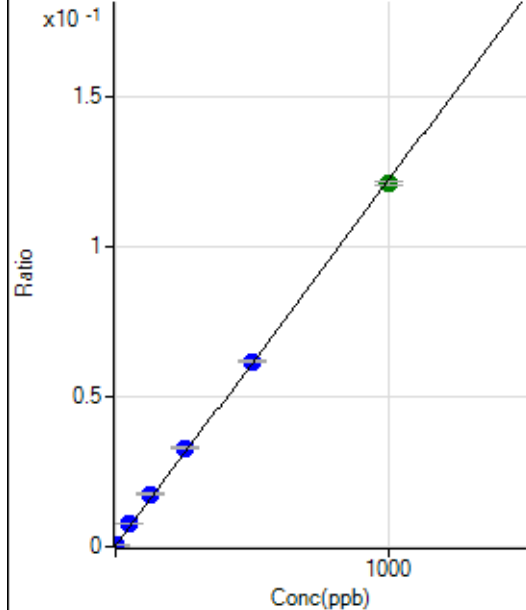
$$DL = 0.003919$$

$$BEC = 0.003095$$

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	4115.58	0.0002	P	3.2
2	☐	1.000	1.262	6721.70	0.0004	P	3.2
3	☐	50.000	58.841	132327.40	0.0074	P	0.1
4	☐	125.000	141.472	308092.08	0.0174	P	3.5
5	☐	250.000	268.717	586386.70	0.0329	P	1.2
6	☐	500.000	505.421	1114011.85	0.0617	P	0.7
7	☐	1000.000	990.109	2096314.15	0.1207	A	1.0
8	☐			10959.42	0.0007	P	1.8

$$y = 1.2168\text{E-}004 * x + 2.3038\text{E-}004$$

$$R = 0.9997$$

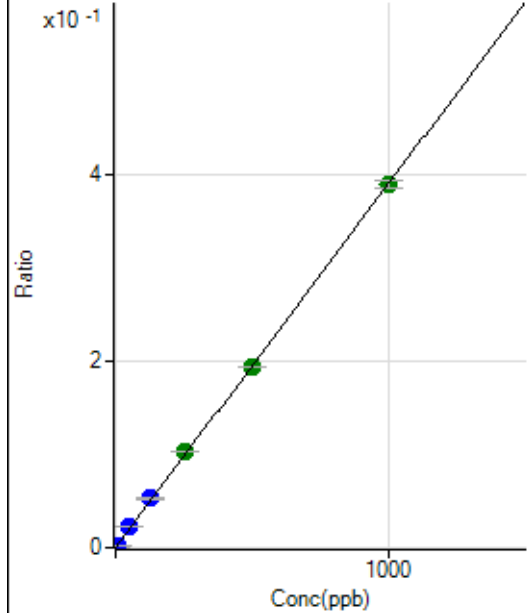
$$DL = 0.1816$$

$$BEC = 1.893$$

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	1350.10	0.0001	P	14.0
2	☐	5.000	5.424	38446.44	0.0022	P	0.2
3	☐	50.000	56.718	398400.83	0.0222	P	0.6
4	☐	125.000	136.022	940700.67	0.0533	P	2.2
5	☐	250.000	262.536	1829225.97	0.1027	A	0.5
6	☐	500.000	496.384	3503465.18	0.1941	A	0.6
7	☐	1000.000	996.958	6769286.52	0.3898	A	2.1
8	☐			30293.53	0.0019	P	3.3

$$y = 3.9095\text{E-}004 * x + 7.5507\text{E-}005$$

$$R = 0.9999$$

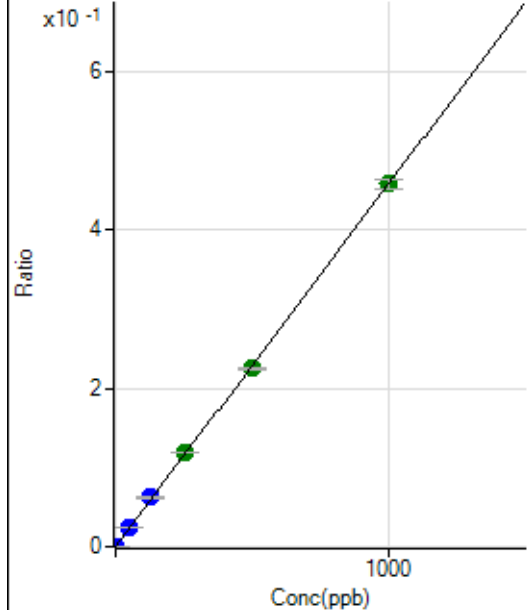
$$DL = 0.08087$$

$$BEC = 0.1931$$

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	63.89	0.0000	P	28.3
2	☐	2.000	2.113	17010.45	0.0010	P	4.3
3	☐	50.000	55.270	453499.22	0.0253	P	0.7
4	☐	125.000	135.316	1095054.95	0.0620	P	3.2
5	☐	250.000	259.725	2119199.81	0.1190	A	1.0
6	☐	500.000	491.047	4060258.59	0.2250	A	0.4
7	☐	1000.000	1000.492	7959553.65	0.4584	A	2.4
8	☐			35658.82	0.0022	P	3.2

$$y = 4.5818\text{E-}004 * x + 3.5838\text{E-}006$$

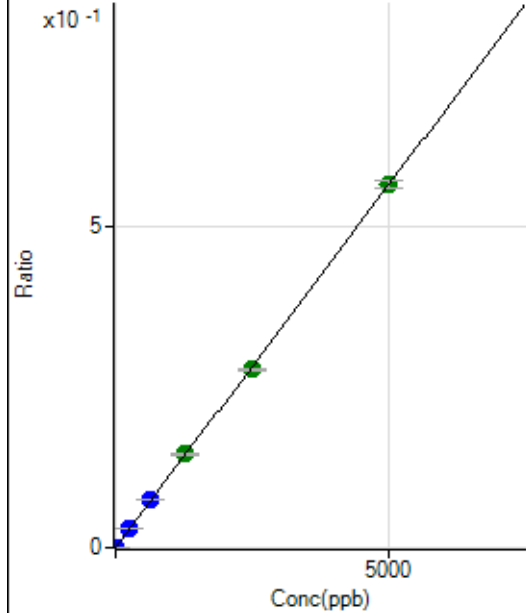
$$R = 0.9998$$

$$DL = 0.006632$$

$$BEC = 0.007822$$

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	27.78	0.0000	P	18.6
2	☐	10.000	10.531	20829.75	0.0012	P	3.0
3	☐	250.000	272.876	551277.67	0.0308	P	0.3
4	☐	625.000	663.265	1321728.07	0.0748	P	3.0
5	☐	1250.000	1294.805	2601193.16	0.1461	A	2.3
6	☐	2500.000	2457.665	5004118.95	0.2773	A	0.6
7	☐	5000.000	5004.038	9803425.82	0.5646	A	2.0
8	☐			38700.37	0.0024	P	4.4

$$y = 1.1282\text{E-}004 * x + 1.5575\text{E-}006$$

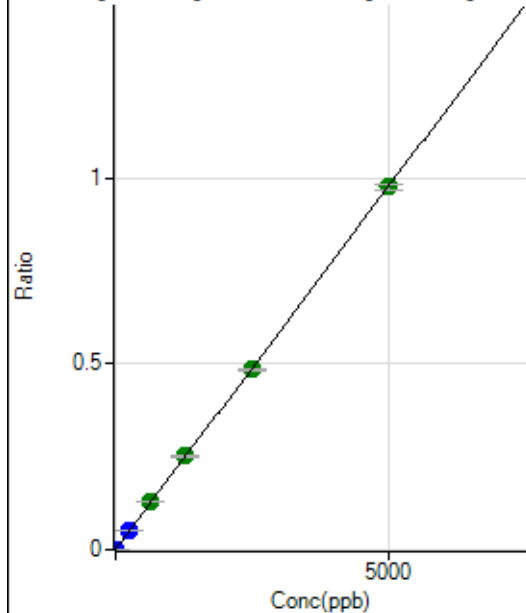
$$R = 0.9999$$

$$DL = 0.007691$$

$$BEC = 0.0138$$

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	52.78	0.0000	P	31.8
2	☐	10.000	10.447	35790.20	0.0020	P	0.4
3	☐	250.000	275.131	962710.35	0.0538	P	0.9
4	☐	625.000	664.845	2294748.23	0.1299	A	2.7
5	☐	1250.000	1292.829	4498461.08	0.2526	A	1.5
6	☐	2500.000	2476.887	8734248.98	0.4840	A	2.0
7	☐	5000.000	4994.611	16947495.00	0.9760	A	1.9
8	☐			67282.03	0.0042	P	2.8

$$y = 1.9540\text{E-}004 * x + 2.9470\text{E-}006$$

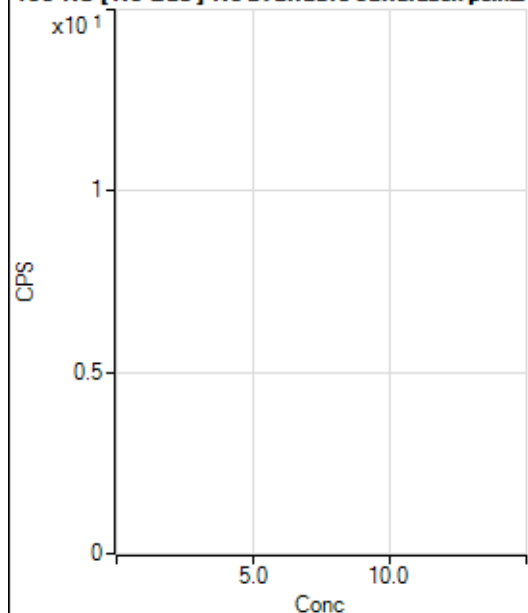
$$R = 0.9999$$

$$DL = 0.01438$$

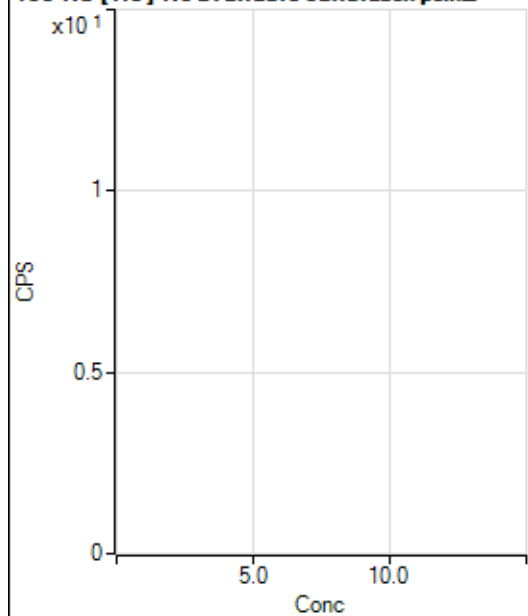
$$BEC = 0.01508$$

Weight: <None>

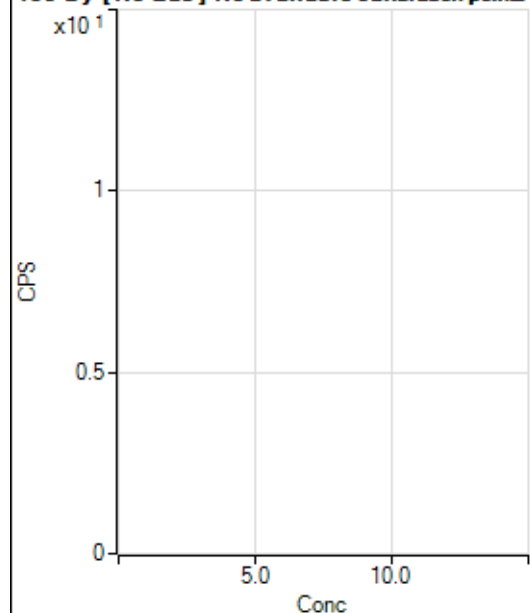
Min Conc: 0

150 Nd [No Gas] No available calibration points

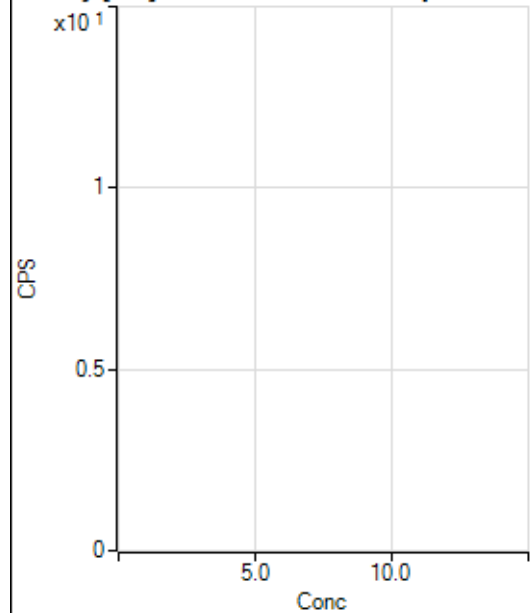
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	57.3
2	☐			26.67		P	75.0
3	☐			48.89		P	34.3
4	☐			117.78		P	34.6
5	☐			211.12		P	13.1
6	☐			364.46		P	2.8
7	☐			662.25		P	23.4
8	☐			146.67		P	40.4

150 Nd [He] No available calibration points

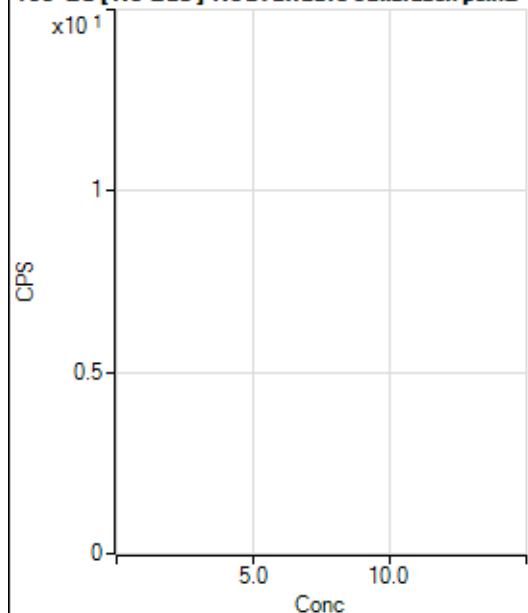
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			5.56		P	34.7
3	☐			14.45		P	48.0
4	☐			31.11		P	12.4
5	☐			40.00		P	28.9
6	☐			65.55		P	10.6
7	☐			127.78		P	5.4
8	☐			83.33		P	24.3

156 Dy [No Gas] No available calibration points

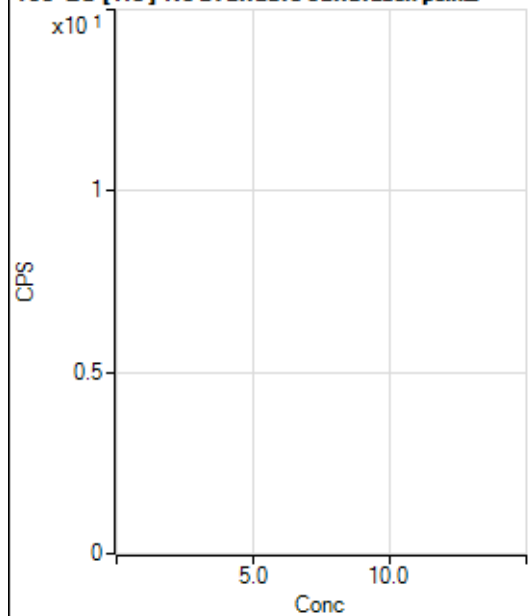
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	49.5
2	☐			19.44		P	65.5
3	☐			44.45		P	10.8
4	☐			66.67		P	25.0
5	☐			86.11		P	20.1
6	☐			194.45		P	28.5
7	☐			355.57		P	9.5
8	☐			1141.74		P	10.2

156 Dy [He] No available calibration points

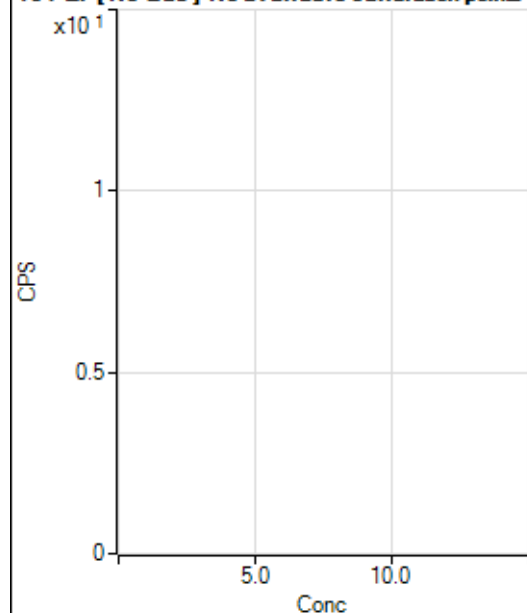
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	107.
2	☐			11.11		P	62.5
3	☐			31.11		P	60.9
4	☐			68.89		P	17.0
5	☐			95.56		P	13.2
6	☐			231.12		P	18.3
7	☐			381.12		P	11.9
8	☐			638.91		P	4.7

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

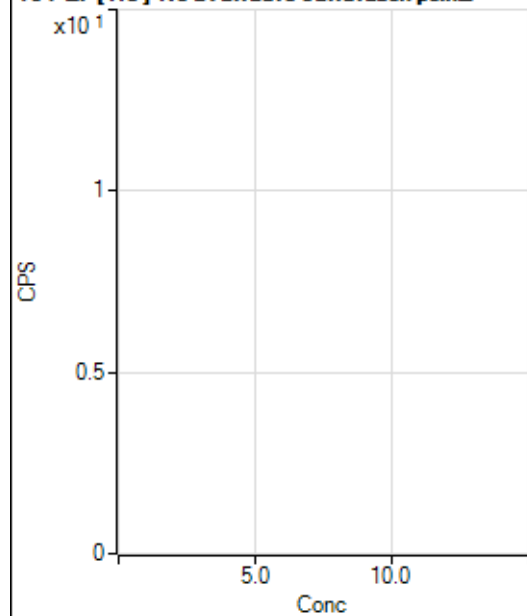
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			119.45		P	17.6
2	☐			127.78		P	13.6
3	☐			169.45		P	24.8
4	☐			152.78		P	11.4
5	☐			180.56		P	17.5
6	☐			169.45		P	23.2
7	☐			266.68		P	8.3
8	☐			791.71		P	5.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			373.34		P	5.6
2	☐			404.46		P	8.7
3	☐			378.90		P	4.3
4	☐			422.23		P	7.8
5	☐			412.23		P	6.9
6	☐			453.34		P	9.9
7	☐			442.23		P	8.3
8	☐			813.37		P	9.1

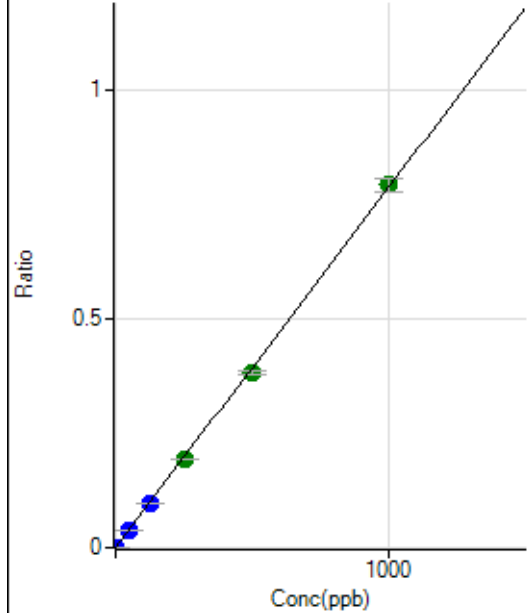
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108.34		P	15.4
2	☐			136.12		P	24.7
3	☐			130.56		P	28.8
4	☐			119.45		P	17.6
5	☐			150.00		P	14.7
6	☐			158.34		P	9.1
7	☐			188.90		P	28.4
8	☐			147.23		P	16.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			65.55		P	29.8
2	☐			72.22		P	9.6
3	☐			101.11		P	7.6
4	☐			86.67		P	26.6
5	☐			84.45		P	34.5
6	☐			86.66		P	17.6
7	☐			102.22		P	16.4
8	☐			133.34		P	16.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0000	P	10.7
2	☐	1.000	0.935	8516.79	0.0008	P	3.7
3	☐	50.000	49.522	442971.40	0.0389	P	0.2
4	☐	125.000	123.815	1070250.21	0.0973	P	0.6
5	☐	250.000	246.852	2212912.85	0.1939	A	0.7
6	☐	500.000	486.389	4390102.14	0.3820	A	1.6
7	☐	1000.000	1007.765	8635045.33	0.7914	A	3.7
8	☐			32411.41	0.0034	P	3.6

$$y = 7.8526\text{E-}004 * x + 2.8303\text{E-}005$$

$$R = 0.9999$$

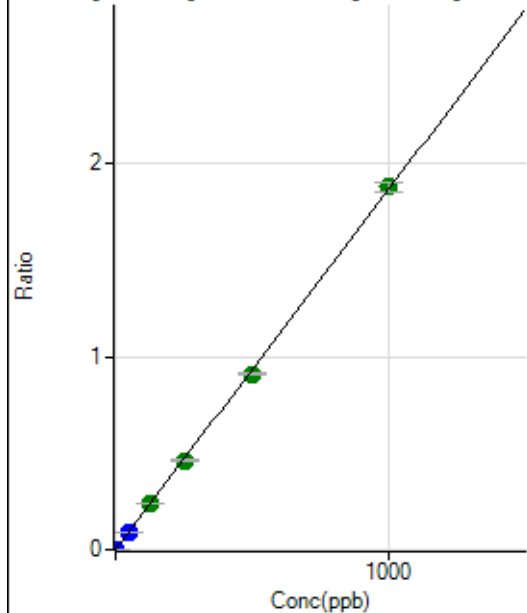
$$DL = 0.01156$$

$$BEC = 0.03604$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	794.49	0.0001	P	16.3
2	☐	1.000	0.939	20376.83	0.0018	P	3.9
3	☐	50.000	49.506	1053738.60	0.0926	P	1.1
4	☐	125.000	127.766	2627792.53	0.2388	A	1.9
5	☐	250.000	247.216	5273376.60	0.4620	A	1.3
6	☐	500.000	486.598	10451029.75	0.9093	A	1.0
7	☐	1000.000	1007.076	20537147.16	1.8819	A	2.9
8	☐			74152.44	0.0079	P	2.4

$$y = 0.0019 * x + 7.1153\text{E-}005$$

$$R = 0.9999$$

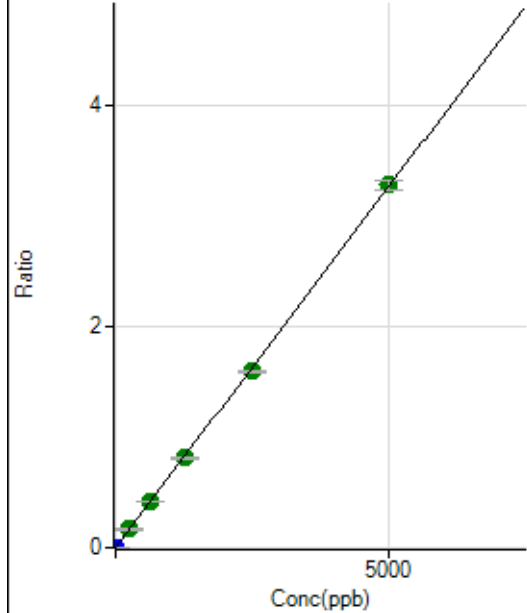
$$DL = 0.01865$$

$$BEC = 0.03808$$

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	514.83	0.0000	P	9.4
2	☐	1.000	0.939	7350.27	0.0007	P	0.9
3	☐	250.000	254.041	1885434.50	0.1657	A	1.3
4	☐	625.000	642.854	4611721.63	0.4191	A	2.3
5	☐	1250.000	1241.600	9239064.21	0.8094	A	1.1
6	☐	2500.000	2444.243	18312809.90	1.5934	A	0.8
7	☐	5000.000	5027.545	35767264.69	3.2775	A	2.9
8	☐			119675.26	0.0127	P	1.5

$$y = 6.5189\text{E-}004 * x + 4.6094\text{E-}005$$

$$R = 0.9999$$

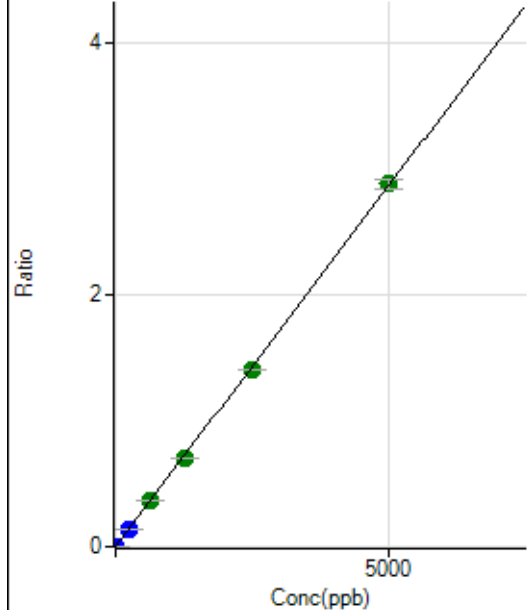
$$DL = 0.01985$$

$$BEC = 0.07071$$

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	442.61	0.0000	P	10.5
2	☐	1.000	0.903	6231.19	0.0006	P	4.1
3	☐	250.000	234.466	1532187.03	0.1346	P	1.2
4	☐	625.000	641.440	4051482.64	0.3682	A	1.3
5	☐	1250.000	1234.614	8088422.05	0.7086	A	0.6
6	☐	2500.000	2448.674	16151969.46	1.4054	A	0.7
7	☐	5000.000	5028.232	31495900.94	2.8859	A	2.7
8	☐			103260.07	0.0110	P	2.2

$$y = 5.7393\text{E-}004 * x + 3.9621\text{E-}005$$

$$R = 0.9999$$

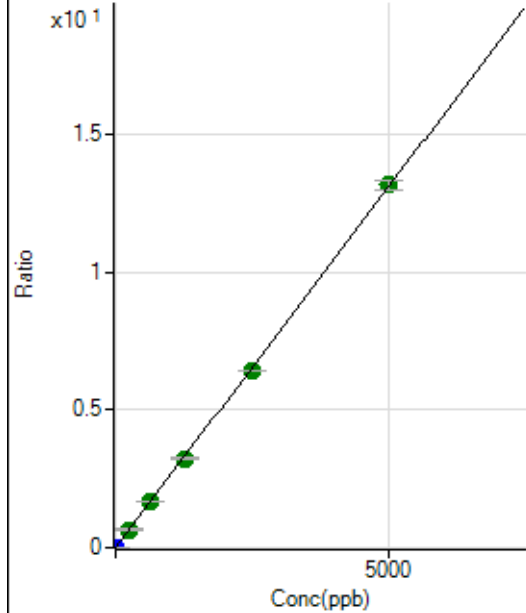
$$DL = 0.02166$$

$$BEC = 0.06903$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2033.43	0.0002	P	5.1
2	☐	1.000	0.919	28875.45	0.0026	P	1.0
3	☐	250.000	252.063	7510367.54	0.6598	A	0.9
4	☐	625.000	639.467	18415554.14	1.6736	A	2.1
5	☐	1250.000	1238.896	37008279.53	3.2422	A	1.3
6	☐	2500.000	2445.585	73554851.06	6.4000	A	0.3
7	☐	5000.000	5028.072	143608300.6	13.1581	A	2.5
8	☐			477002.59	0.0507	P	1.7

$$y = 0.0026 * x + 1.8199E-004$$

$$R = 0.9999$$

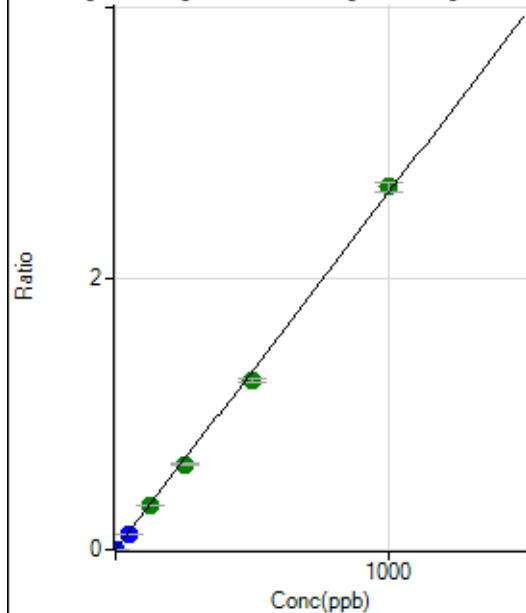
$$DL = 0.01061$$

$$BEC = 0.06954$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.34	0.0000	P	42.8
2	☐	1.000	0.827	24362.07	0.0022	P	2.0
3	☐	50.000	44.474	1334396.05	0.1172	P	0.2
4	☐	125.000	123.365	3578010.04	0.3252	A	1.9
5	☐	250.000	239.427	7203331.72	0.6311	A	1.0
6	☐	500.000	473.486	14343336.08	1.2480	A	2.2
7	☐	1000.000	1016.381	29238247.87	2.6790	A	2.6
8	☐			91117.61	0.0097	P	1.5

$$y = 0.0026 * x + 2.9752E-006$$

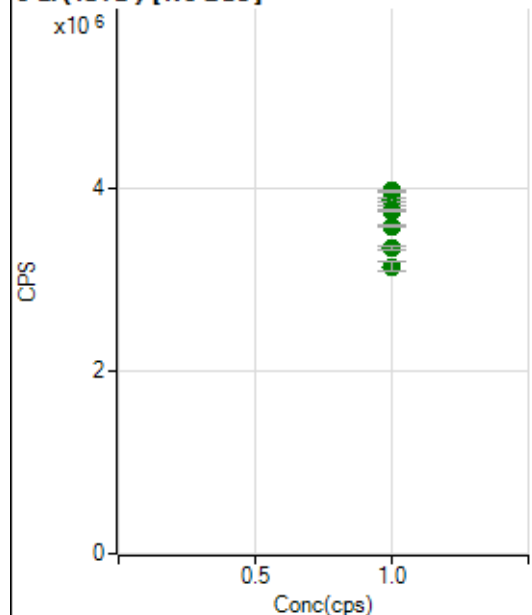
$$R = 0.9994$$

$$DL = 0.001449$$

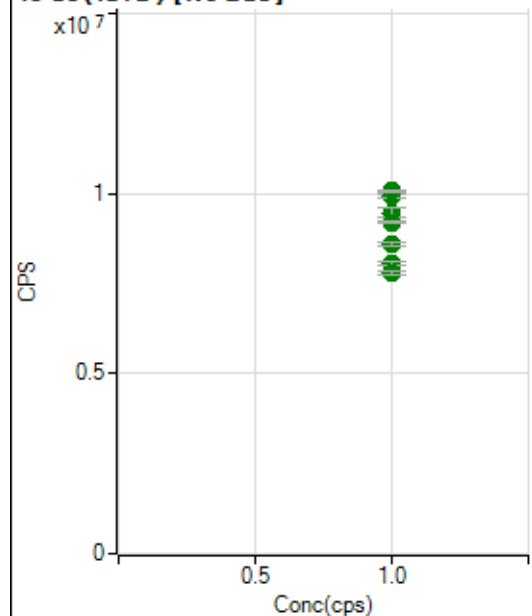
$$BEC = 0.001129$$

Weight: <None>

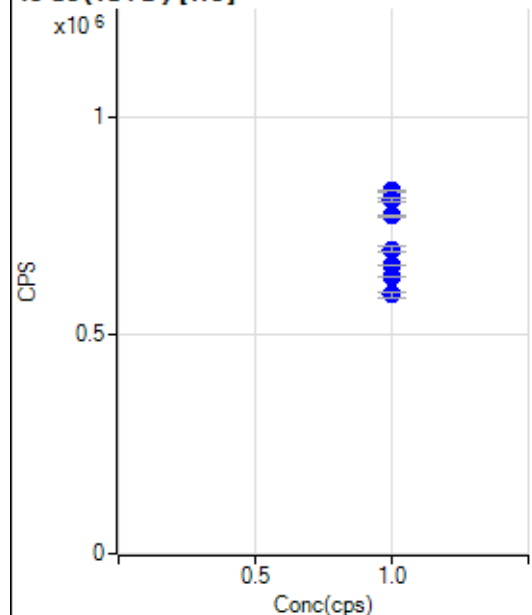
Min Conc: 0

6 Li (ISTD) [No Gas]

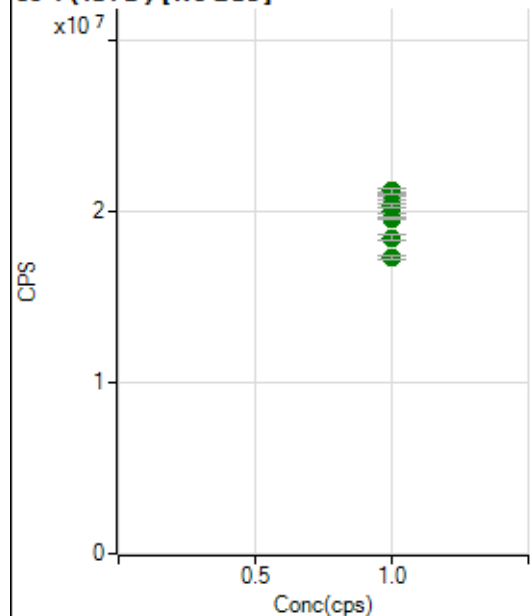
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3960755.01		A	0.3
2	☐	1.000		3877610.81		A	1.2
3	☐	1.000		3973440.43		A	0.7
4	☐	1.000		3778581.30		A	1.5
5	☐	1.000		3752932.03		A	0.6
6	☐	1.000		3588347.13		A	0.2
7	☐	1.000		3357335.40		A	1.2
8	☐	1.000		3141898.29		A	3.3

45 Sc (ISTD) [No Gas]

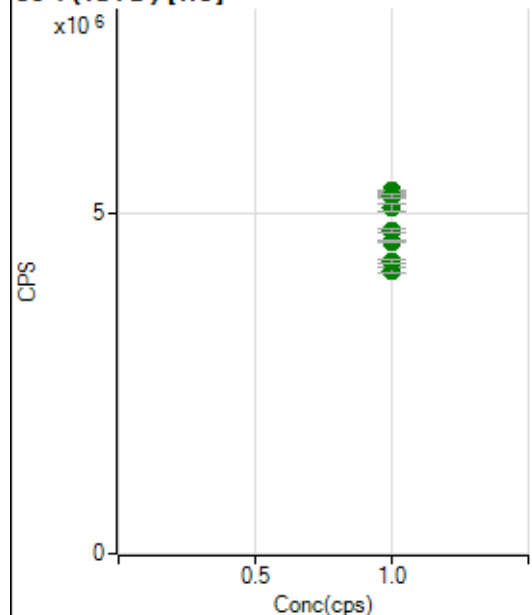
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10001520.76		A	0.4
2	☐	1.000		9948729.99		A	1.7
3	☐	1.000		10072837.91		A	0.4
4	☐	1.000		9455726.80		A	2.9
5	☐	1.000		9193408.20		A	0.4
6	☐	1.000		8576016.75		A	1.4
7	☐	1.000		8055088.21		A	1.1
8	☐	1.000		7771832.66		A	1.3

45 Sc (ISTD) [He]

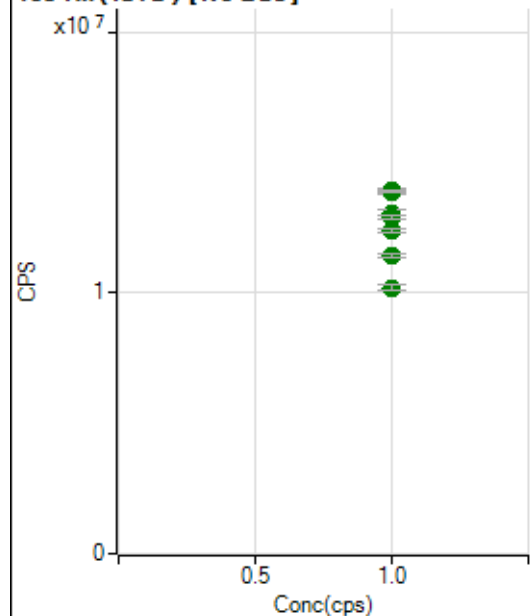
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		830309.29		P	0.4
2	☐	1.000		830195.09		P	0.2
3	☐	1.000		808918.41		P	0.8
4	☐	1.000		772480.92		P	0.3
5	☐	1.000		697079.28		P	1.6
6	☐	1.000		660661.77		P	0.4
7	☐	1.000		592613.55		P	2.5
8	☐	1.000		635098.16		P	0.2

89 Y (ISTD) [No Gas]

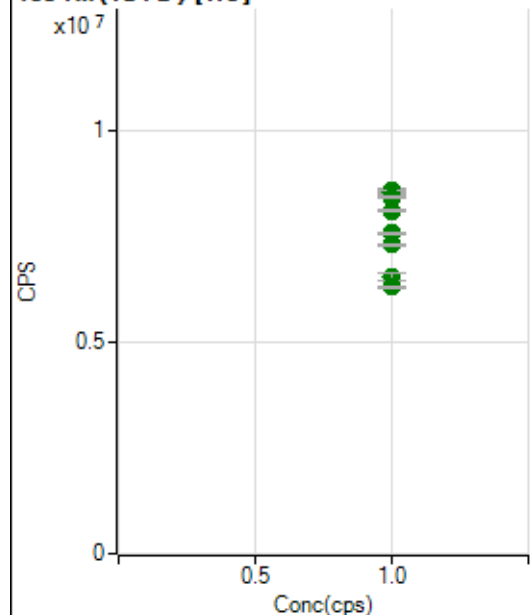
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		21041855.10		A	3.1
2	☐	1.000		21040855.52		A	0.7
3	☐	1.000		21223345.24		A	1.5
4	☐	1.000		20065202.34		A	2.0
5	☐	1.000		20354731.36		A	0.9
6	☐	1.000		19589270.96		A	0.7
7	☐	1.000		18483060.56		A	1.5
8	☐	1.000		17299328.91		A	1.1

89 Y(ISTD) [He]

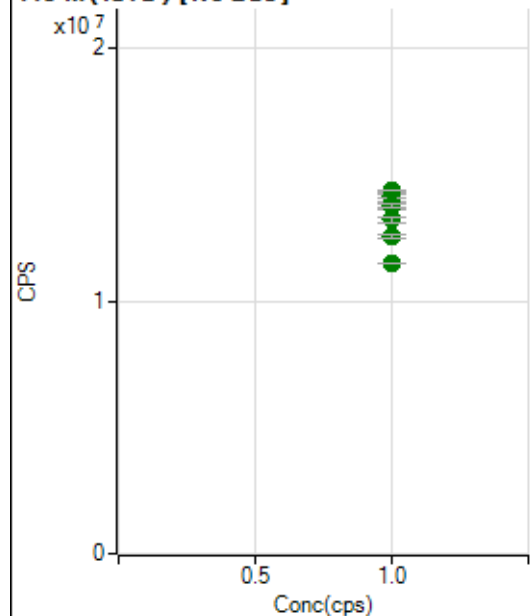
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5303714.33		A	1.2
2	☐	1.000		5336693.26		A	0.2
3	☐	1.000		5257579.68		A	1.2
4	☐	1.000		5087207.49		A	2.0
5	☐	1.000		4754510.87		A	1.4
6	☐	1.000		4590838.75		A	0.8
7	☐	1.000		4169931.95		A	2.3
8	☐	1.000		4299750.28		A	0.7

103 Rh(ISTD) [No Gas]

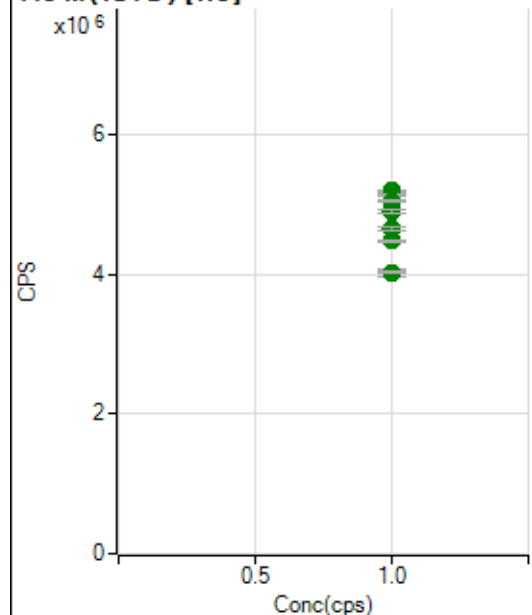
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13921787.85		A	1.7
2	☐	1.000		13847718.40		A	0.8
3	☐	1.000		13902593.55		A	0.3
4	☐	1.000		13034770.91		A	2.7
5	☐	1.000		12883357.87		A	1.2
6	☐	1.000		12377394.95		A	1.1
7	☐	1.000		11439012.33		A	1.1
8	☐	1.000		10199475.54		A	2.0

103 Rh (ISTD) [He]

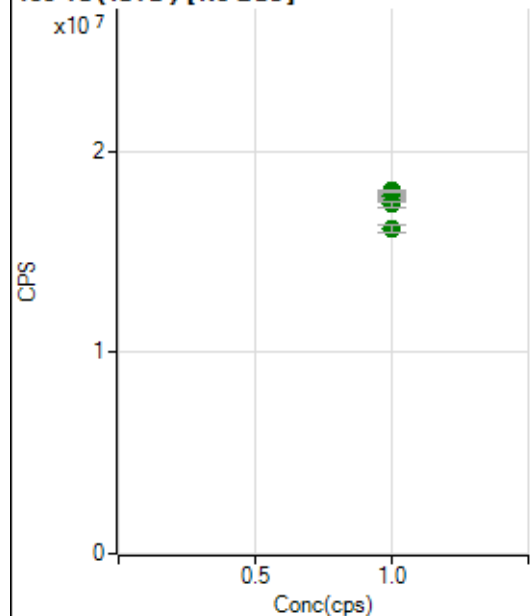
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8569551.05		A	1.1
2	☐	1.000		8535619.04		A	1.2
3	☐	1.000		8423617.58		A	0.5
4	☐	1.000		8098397.52		A	0.8
5	☐	1.000		7579615.37		A	0.5
6	☐	1.000		7303047.74		A	0.6
7	☐	1.000		6530079.35		A	2.5
8	☐	1.000		6293654.63		A	0.5

115 In (ISTD) [No Gas]

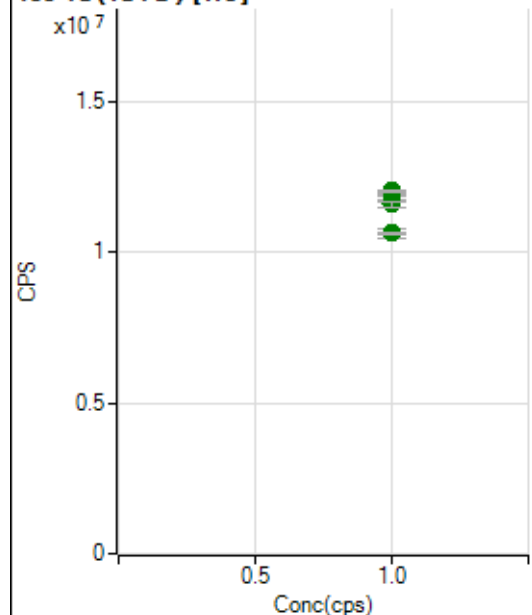
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14263013.51		A	0.5
2	☐	1.000		14193508.56		A	1.0
3	☐	1.000		14362415.87		A	0.2
4	☐	1.000		13759828.52		A	2.1
5	☐	1.000		13766723.57		A	1.3
6	☐	1.000		13229478.28		A	1.7
7	☐	1.000		12555760.23		A	1.1
8	☐	1.000		11494459.04		A	0.3

115 In (ISTD) [He]

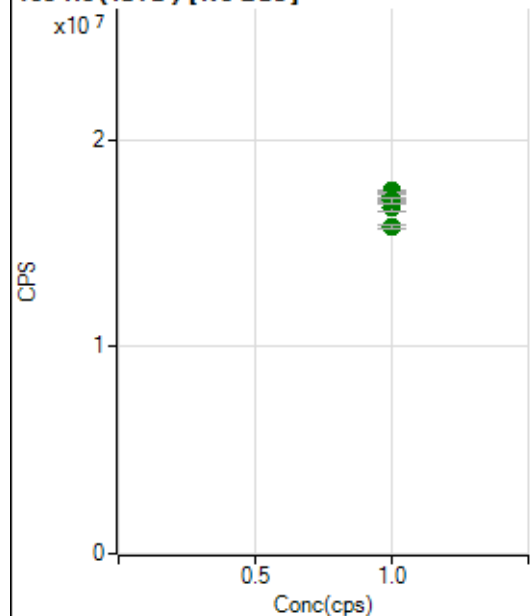
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5190188.48		A	0.6
2	☐	1.000		5131473.30		A	0.4
3	☐	1.000		5046058.22		A	0.4
4	☐	1.000		4897391.73		A	0.8
5	☐	1.000		4642646.43		A	1.2
6	☐	1.000		4477335.95		A	0.6
7	☐	1.000		4023141.60		A	2.6
8	☐	1.000		4025590.85		A	1.0

159 Tb (ISTD) [No Gas]

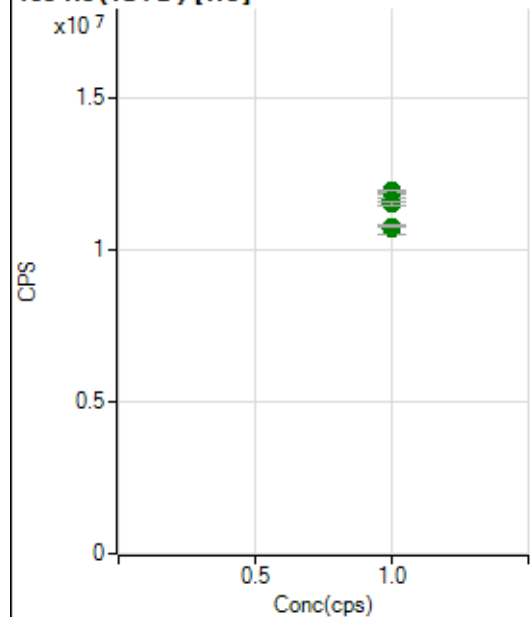
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17860413.21		A	1.4
2	☐	1.000		17507530.43		A	0.5
3	☐	1.000		17905221.12		A	1.1
4	☐	1.000		17670596.41		A	2.4
5	☐	1.000		17809264.59		A	1.3
6	☐	1.000		18046580.84		A	0.7
7	☐	1.000		17368123.91		A	1.7
8	☐	1.000		16170451.70		A	2.2

159 Tb (ISTD) [He]

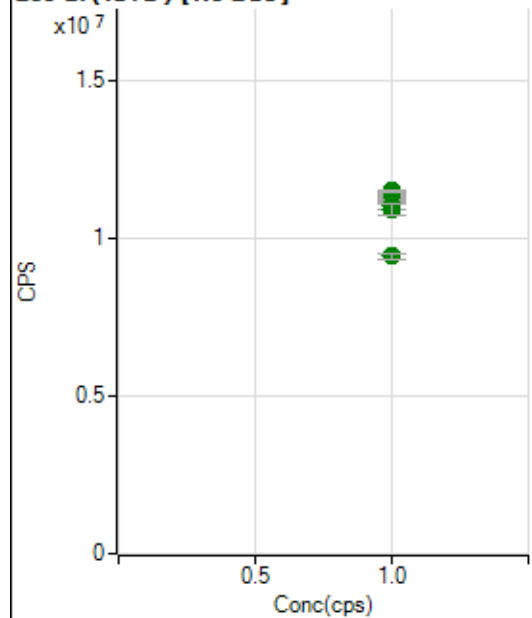
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12004755.65		A	0.7
2	☐	1.000		11914300.65		A	0.6
3	☐	1.000		11955941.49		A	0.7
4	☐	1.000		12048543.71		A	0.3
5	☐	1.000		11715477.05		A	1.0
6	☐	1.000		11593651.91		A	1.2
7	☐	1.000		10643435.54		A	2.8
8	☐	1.000		10634497.90		A	0.3

165 Ho (ISTD) [No Gas]

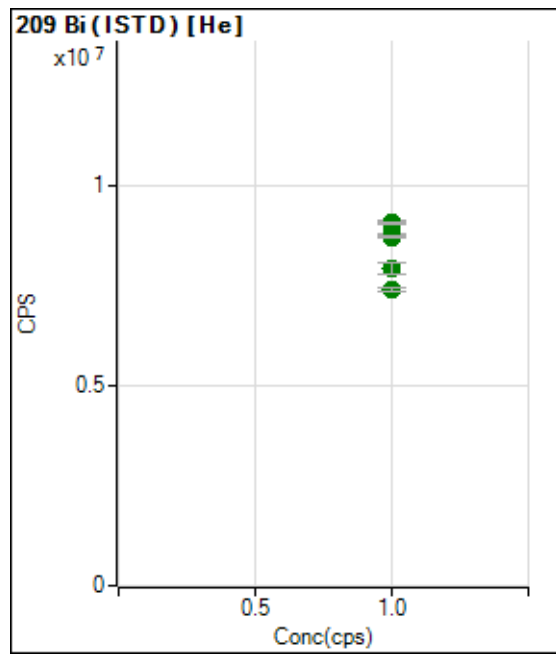
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17245139.60		A	1.8
2	☐	1.000		17074436.83		A	1.1
3	☐	1.000		17528644.18		A	0.7
4	☐	1.000		16757806.56		A	2.1
5	☐	1.000		17510407.38		A	0.6
6	☐	1.000		17421840.57		A	0.8
7	☐	1.000		17054464.75		A	1.9
8	☐	1.000		15772331.99		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11903458.16		A	0.8
2	☐	1.000		11944951.77		A	0.7
3	☐	1.000		11922845.24		A	0.8
4	☐	1.000		11917933.29		A	0.8
5	☐	1.000		11652760.52		A	0.9
6	☐	1.000		11525623.16		A	0.8
7	☐	1.000		10692639.84		A	2.8
8	☐	1.000		10765479.63		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11178555.11		A	1.4
2	☐	1.000		11165256.36		A	0.8
3	☐	1.000		11382866.36		A	1.0
4	☐	1.000		11005197.89		A	1.4
5	☐	1.000		11414299.83		A	0.4
6	☐	1.000		11493003.72		A	0.5
7	☐	1.000		10919598.31		A	3.1
8	☐	1.000		9418310.90		A	1.5



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9081614.31		A	1.0
2	☐	1.000		9070778.27		A	0.4
3	☐	1.000		9077798.82		A	0.6
4	☐	1.000		9067538.47		A	0.3
5	☐	1.000		8794894.45		A	0.9
6	☐	1.000		8717147.79		A	0.6
7	☐	1.000		7945730.16		A	3.4
8	☐	1.000		7421454.96		A	0.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7062922 MS.b

Acq. Date-Time 2022-06-29 12:32:30

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		10862	108615.06			0.509	5.000
24		96325	963253.77			1.048	5.000
25		13207	132074.26			0.492	5.000
26		14886	148859.66			0.406	5.000
59		26545	265454.78			0.695	5.000
113		12694	126939.99			0.557	5.000
115		38645	386448.62			0.466	5.000
206		17476	174760.95			0.482	5.000
207		14993	149929.12			0.402	5.000
208		35758	357579.11			0.304	5.000
220		0	3.20			23.697	

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

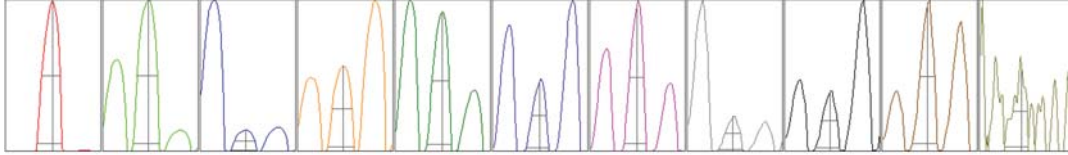
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10932	10907	10818	10842	10808
24	98096	96170	95780	95950	95631
25	13274	13283	13155	13169	13157
26	14973	14867	14922	14839	14829
59	26789	26500	26670	26444	26324
113	12691	12583	12686	12752	12759
115	38653	38688	38723	38818	38342
206	17397	17569	17432	17566	17417
207	14941	15037	15042	15030	14914
208	35784	35923	35741	35714	35628

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	19758.71	9.00	8.90 - 9.10	
24	158742.05	23.95	23.90 - 24.10	
25	21666.98	24.95	24.90 - 25.10	
26	24843.31	25.95	25.90 - 26.10	
59	51210.30	59.00	58.90 - 59.10	
113	27787.52	113.00	112.90 - 113.10	
115	85656.47	115.00	114.90 - 115.10	
206	36095.90	205.95	205.90 - 206.10	
207	30674.12	206.95	206.90 - 207.10	
208	75867.62	207.95	207.90 - 208.10	
220	0.50	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.783	0.900	
24	0.65	0.824	0.900	
25	0.64	0.818	0.900	
26	0.64	0.828	0.900	
59	0.54	0.777	0.900	
113	0.46	0.720	0.900	
115	0.45	0.710	0.900	
206	0.50	0.746	0.900	
207	0.49	0.766	0.900	
208	0.47	0.791	0.900	
220	0.46	0.738		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	9.1 V	Deflect	14.2 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

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

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.8 mm
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EM

Discriminator	3.2 mV	Analog HV	2187 V	Pulse HV	1459 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8722	87215.19			0.693	
89		81841	818407.94			1.015	
205		53991	539913.27			1.092	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8757	8772	8766	8640	8673
89	82348	82721	82163	80703	81267
205	54224	54835	53285	53636	53977

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.73 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	9.9 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	0.8 mm
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EM

Discriminator	3.2 mV	Analog HV	2187 V	Pulse HV	1459 V
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