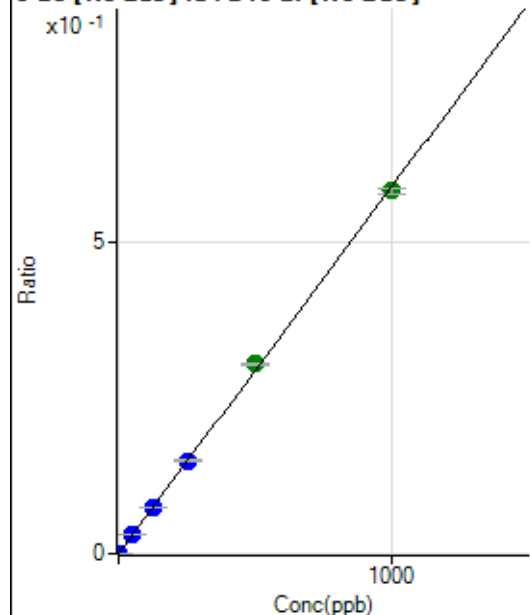


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7081422-MS.b\
 Analysis File: P7081422-MS.batch.bin
 DA Date-Time: 2022-08-14 20:50:08
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-08-14 18:58:53
2	005CALS.d	S02	2022-08-14 19:01:48
3	006CALS.d	S03	2022-08-14 19:04:44
4	007CALS.d	S04	2022-08-14 19:07:31
5	008CALS.d	S05	2022-08-14 19:10:20
6	009CALS.d	S06	2022-08-14 19:13:07
7	010CALS.d	S07	2022-08-14 19:15:57
8	011CALS.d	S08	2022-08-14 19:18:44

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	49.2
2	☐	1.000	1.034	2925.86	0.0006	P	2.6
3	☐	50.000	50.632	141962.65	0.0298	P	1.6
4	☐	125.000	127.628	349469.92	0.0751	P	1.3
5	☐	250.000	253.453	676190.87	0.1491	P	2.2
6	☐	500.000	518.315	1315085.31	0.3049	A	1.2
7	☐	1000.000	989.619	2454983.91	0.5822	A	1.5
8	☐			572.24	0.0001	P	3.8

$$y = 5.8830\text{E-}004 * x + 4.7101\text{E-}006$$

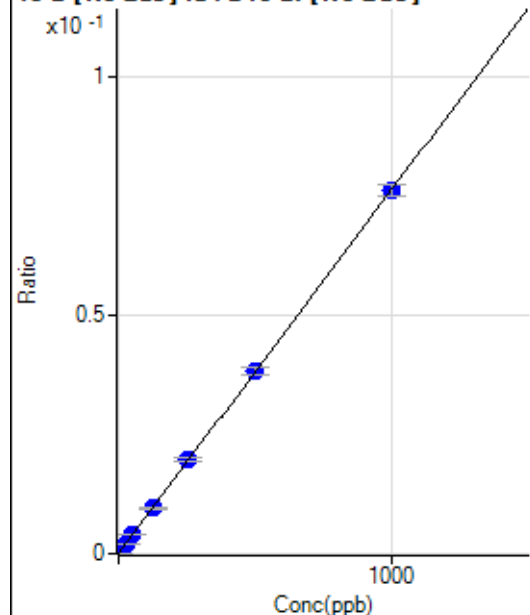
$$R = 0.9997$$

$$DL = 0.01181$$

$$BEC = 0.008006$$

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	258.34	0.0001	P	3.0
2	☐	25.000	24.811	9278.02	0.0019	P	4.5
3	☐	50.000	50.668	18650.50	0.0039	P	3.6
4	☐	125.000	125.006	44559.37	0.0096	P	3.3
5	☐	250.000	258.366	89439.80	0.0197	P	5.0
6	☐	500.000	501.104	164769.64	0.0382	P	4.7
7	☐	1000.000	997.327	320514.60	0.0760	P	3.1
8	☐			11996.63	0.0030	P	10.2

$$y = 7.6156\text{E-}005 * x + 5.4501\text{E-}005$$

$$R = 1.0000$$

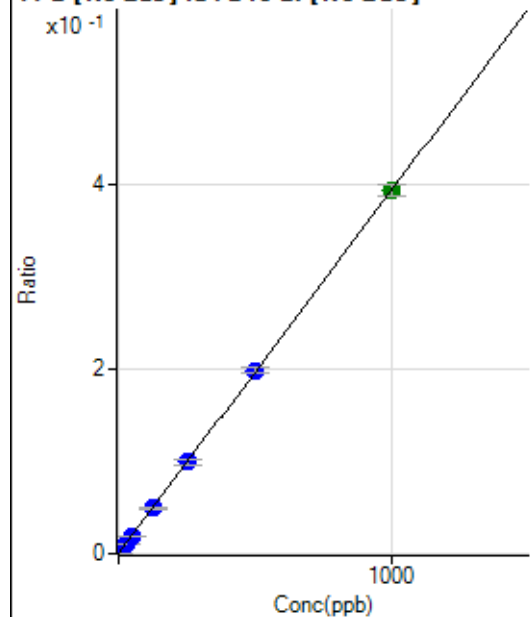
$$DL = 0.06486$$

$$BEC = 0.7157$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1466.78	0.0003	P	3.9
2	☐	25.000	23.818	46213.94	0.0097	P	2.9
3	☐	50.000	49.019	93417.99	0.0196	P	1.6
4	☐	125.000	124.827	230103.50	0.0494	P	3.3
5	☐	250.000	250.966	449126.86	0.0991	P	5.2
6	☐	500.000	502.827	854627.17	0.1982	P	3.1
7	☐	1000.000	998.445	1658321.10	0.3933	A	3.2
8	☐			60910.74	0.0153	P	14.5

$$y = 3.9357E-004 * x + 3.0930E-004$$

$$R = 1.0000$$

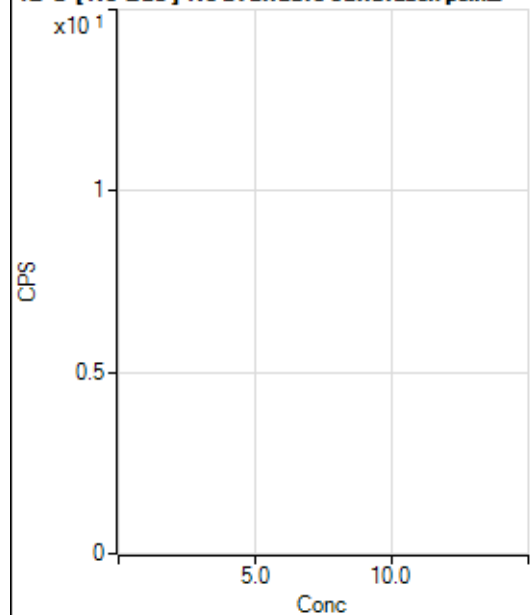
$$DL = 0.09112$$

$$BEC = 0.7859$$

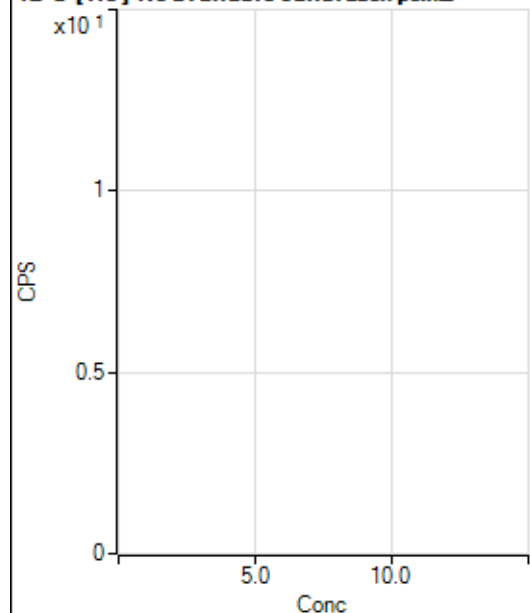
Weight: <None>

Min Conc: 0

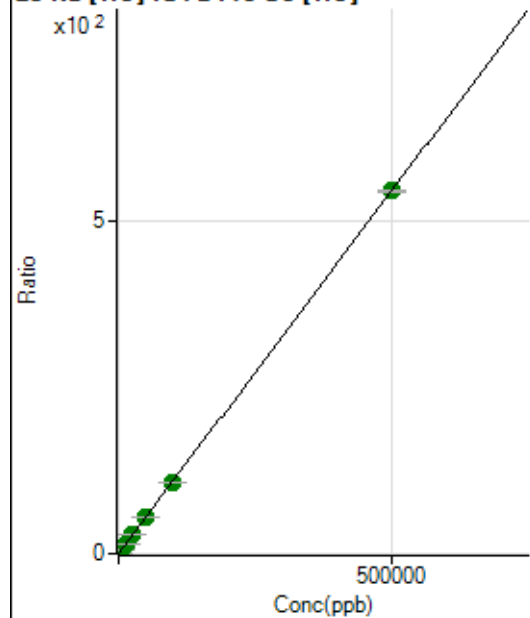
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29174.10	0.0301	P	0.9
2	☐	500.000	526.915	583039.97	0.6039	P	0.5
3	☐	5000.000	5198.497	5531052.03	5.6917	A	0.3
4	☐	12500.000	12937.179	13520199.38	14.1199	A	1.5
5	☐	25000.000	25658.867	27006917.04	27.9750	A	0.6
6	☐	50000.000	50965.254	53727910.92	55.5360	A	1.6
7	☐	100000.00	98541.508	105247123.65	107.3510	A	1.2
8	☐	500000.00	500149.28	539970178.74	544.7396	A	0.4

$$y = 0.0011 * x + 0.0301$$

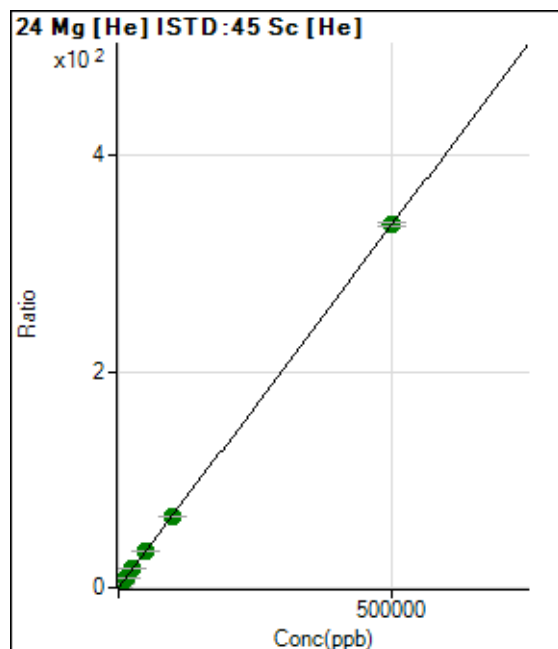
$$R = 1.0000$$

$$DL = 0.7453$$

$$BEC = 27.61$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	485.20	0.0005	P	7.4
2	☐	500.000	537.864	348715.41	0.3612	P	0.4
3	☐	5000.000	5171.721	3370849.06	3.4688	A	0.1
4	☐	12500.000	12720.154	8168680.91	8.5309	A	0.7
5	☐	25000.000	25483.477	16498692.38	17.0903	A	1.0
6	☐	50000.000	49771.220	32292439.38	33.3783	A	0.7
7	☐	100000.00	98196.107	64566664.87	65.8532	A	1.9
8	☐	500000.00	500352.22	332606525.95	335.5487	A	0.9

$$y = 6.7062\text{E-}004 * x + 5.0000\text{E-}004$$

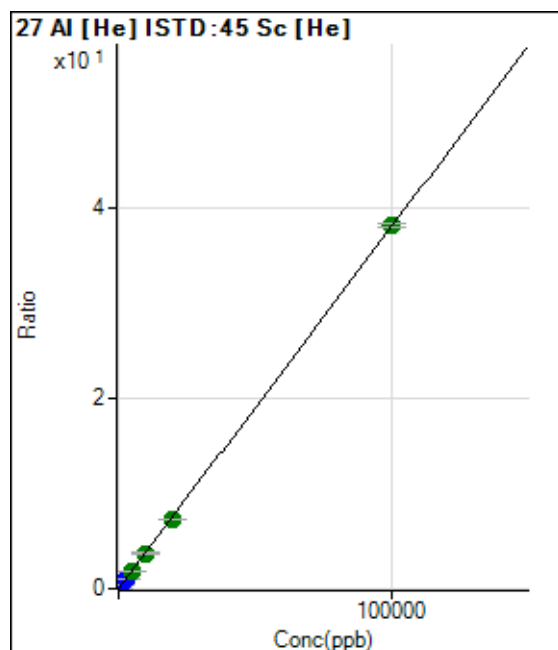
$$R = 1.0000$$

$$DL = 0.1657$$

$$BEC = 0.7456$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	835.24	0.0009	P	21.9
2	☐	20.000	20.773	8452.45	0.0088	P	1.6
3	☐	1000.000	988.634	365945.29	0.3766	P	0.5
4	☐	2500.000	2457.502	895122.01	0.9348	P	0.3
5	☐	5000.000	4954.573	1818585.37	1.8838	A	1.1
6	☐	10000.000	9762.650	3590200.11	3.7110	A	1.4
7	☐	20000.000	19049.974	7098990.26	7.2406	A	0.9
8	☐	100000.00	100217.18	37753805.47	38.0871	A	1.0

$$y = 3.8004\text{E-}004 * x + 8.6081\text{E-}004$$

$$R = 0.9999$$

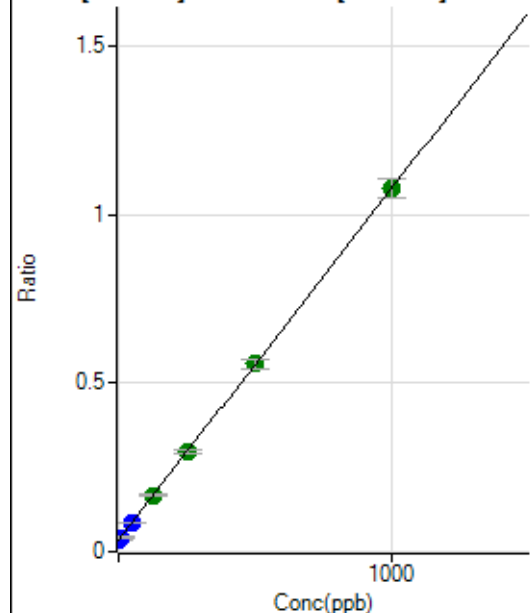
$$DL = 1.487$$

$$BEC = 2.265$$

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	374410.06	0.0346	P	1.1
2	☐	10.000	7.902	466546.67	0.0428	P	0.2
3	☐	50.000	48.718	932818.45	0.0854	P	2.6
4	☐	125.000	126.939	1794512.13	0.1670	A	3.4
5	☐	250.000	250.897	3162259.90	0.2963	A	5.0
6	☐	500.000	500.837	5963816.84	0.5571	A	5.6
7	☐	1000.000	999.200	11901058.43	1.0771	A	5.2
8	☐			2953300.35	0.2734	A	13.4

$$y = 0.0010 * x + 0.0346$$

$$R = 1.0000$$

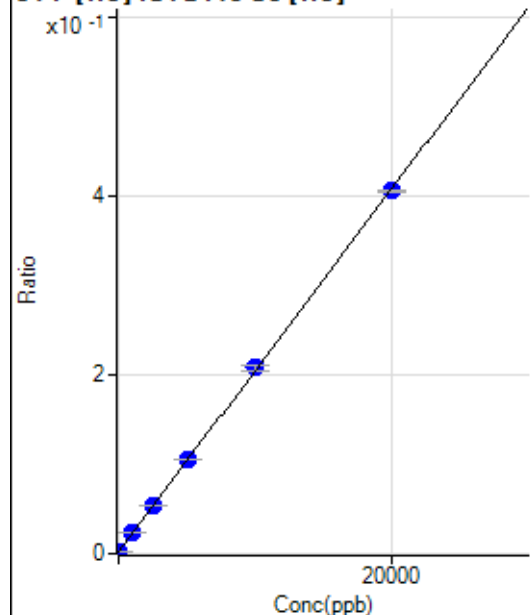
$$DL = 1.124$$

$$BEC = 33.12$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.351	1702.92	0.0018	P	6.0
2	☐	0.000	9.351	2061.32	0.0021	P	2.8
3	☐	1000.000	1049.336	22600.53	0.0233	P	1.6
4	☐	2500.000	2572.060	51880.44	0.0542	P	2.0
5	☐	5000.000	5071.491	101321.04	0.1049	P	0.9
6	☐	10000.000	10137.274	201058.36	0.2078	P	2.2
7	☐	20000.000	19902.016	398213.11	0.4062	P	0.6
8	☐			1819.60	0.0018	P	10.5

$$y = 2.0310E-005 * x + 0.0019$$

$$R = 1.0000$$

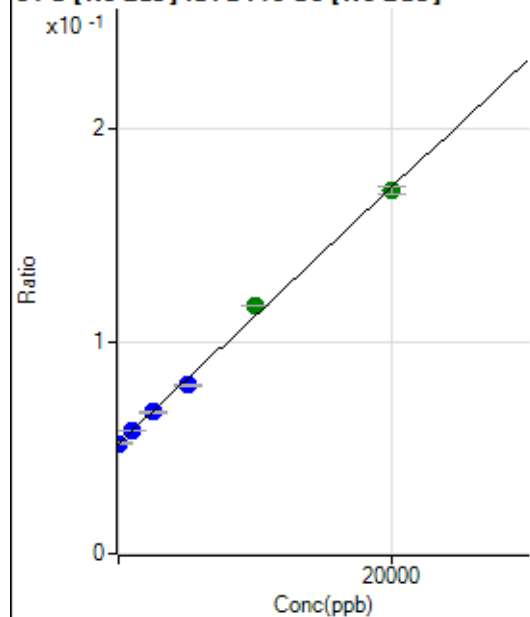
$$DL = 12.19$$

$$BEC = 95.77$$

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	3.769	562645.84	0.0519	P	1.1
2	☐	0.000	-3.769	565455.98	0.0519	P	1.4
3	☐	1000.000	1027.365	634781.17	0.0581	P	0.6
4	☐	2500.000	2448.707	716617.73	0.0667	P	0.9
5	☐	5000.000	4578.039	849146.72	0.0795	P	0.8
6	☐	10000.000	10780.594	1252573.40	0.1170	A	0.3
7	☐	20000.000	19720.236	1888335.91	0.1710	A	2.1
8	☐			416897.59	0.0386	P	2.3

$$y = 6.0395E-006 * x + 0.0519$$

R = 0.9986

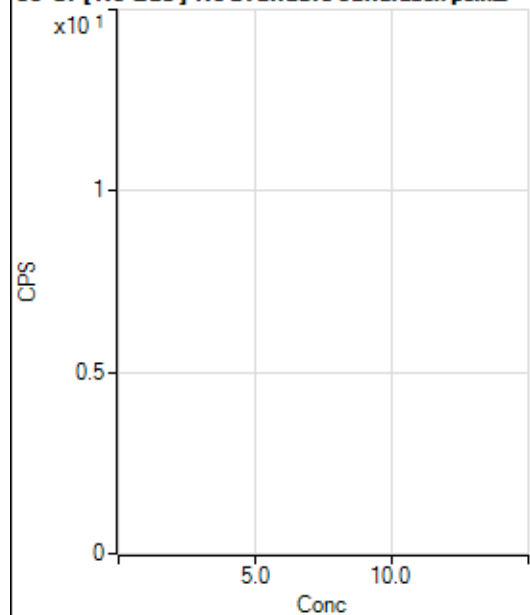
DL = 329.6

BEC = 8593

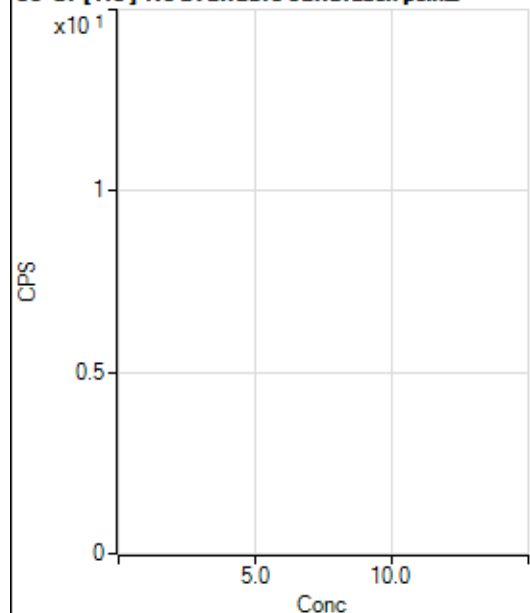
Weight: <None>

Min Conc: 0

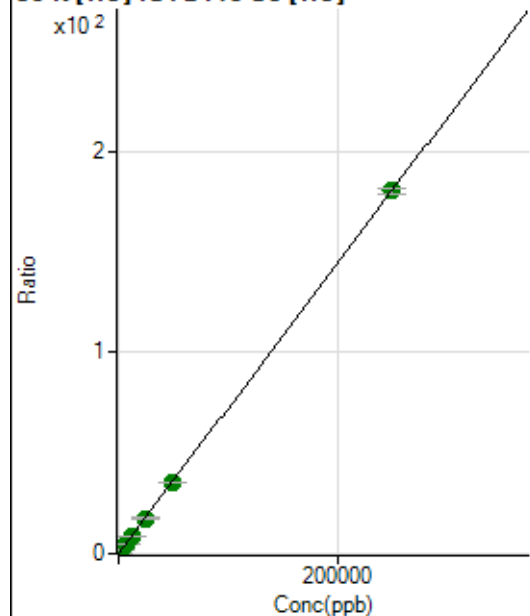
35 Cl [No Gas] No available calibration points



	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	92690.39	0.0955	P	1.3
2	☐	500.000	526.844	458064.96	0.4745	P	0.8
3	☐	2500.000	2490.226	1833447.85	1.8867	A	0.5
4	☐	6250.000	6078.240	4277765.85	4.4676	A	1.3
5	☐	12500.000	12186.531	8554973.28	8.8612	A	1.1
6	☐	25000.000	24351.001	17036913.40	17.6110	A	1.6
7	☐	50000.000	48717.764	34450141.74	35.1379	A	0.4
8	☐	250000.00	250341.35	178587565.10	180.1644	A	1.5

$$y = 7.1929\text{E-}004 * x + 0.0955$$

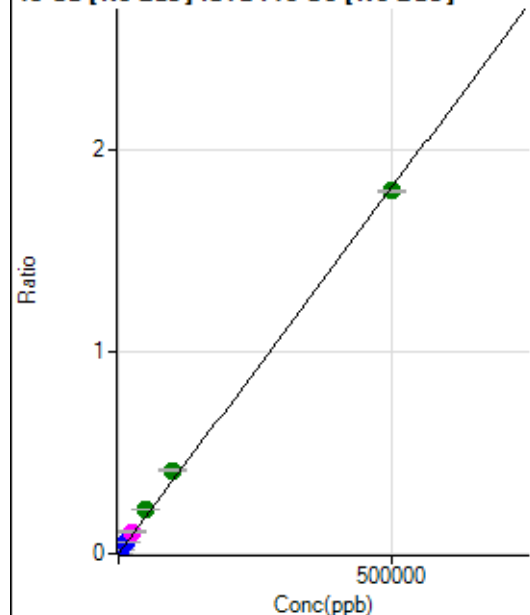
$$R = 1.0000$$

$$DL = 5.011$$

$$BEC = 132.8$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	391.68	0.0000	P	3.5
2	☐	500.000	532.938	21446.30	0.0020	P	0.6
3	☐	5000.000	6174.078	244808.84	0.0224	P	1.7
4	☐	12500.000	15263.101	594714.17	0.0553	P	1.2
5	☐	25000.000	30083.053	1163936.26	0.1090	M	1.3
6	☐	50000.000	59926.315	2324837.38	0.2172	A	0.9
7	☐	100000.00	113846.56	4555238.73	0.4126	A	2.6
8	☐	500000.00	495903.05	19396632.90	1.7969	A	0.8

$$y = 3.6234\text{E-}006 * x + 3.6137\text{E-}005$$

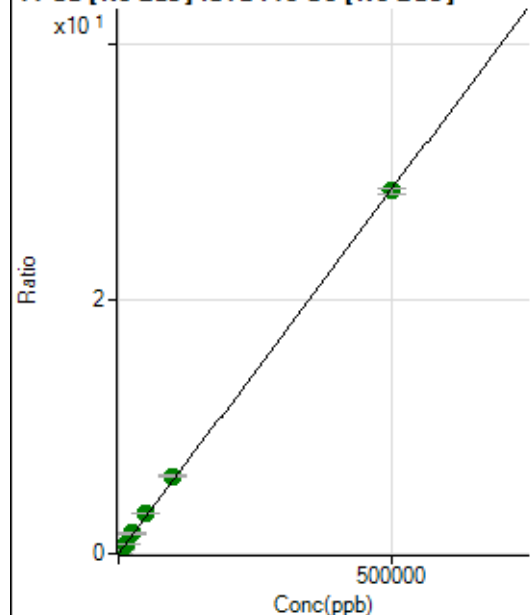
$$R = 0.9995$$

$$DL = 1.047$$

$$BEC = 9.973$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17863.82	0.0016	P	0.4
2	☐	500.000	529.919	348728.40	0.0320	P	0.7
3	☐	5000.000	5576.538	3506585.84	0.3209	A	0.7
4	☐	12500.000	13836.011	8531161.82	0.7939	A	0.8
5	☐	25000.000	27732.639	16966695.00	1.5896	A	2.0
6	☐	50000.000	55511.294	34043616.39	3.1801	A	1.1
7	☐	100000.00	106261.14	67199995.95	6.0859	A	2.4
8	☐	500000.00	498020.81	307816617.99	28.5172	A	1.8

$$y = 5.7258\text{E-}005 * x + 0.0016$$

$$R = 0.9999$$

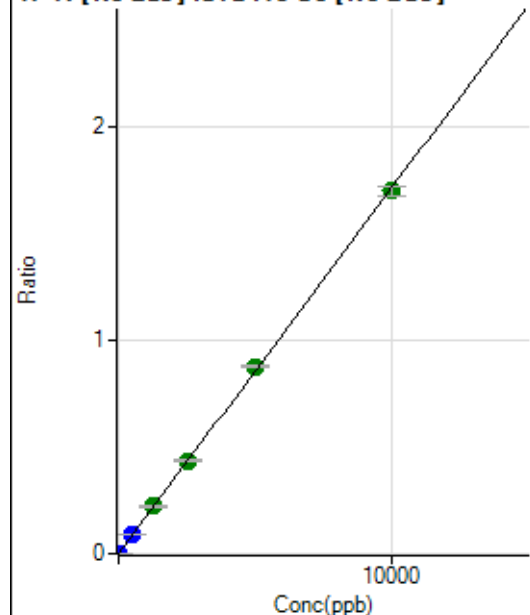
$$DL = 0.3074$$

$$BEC = 28.79$$

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	258.34	0.0000	P	22.0
2	☐	5.000	5.193	9964.66	0.0009	P	1.4
3	☐	500.000	513.030	960910.57	0.0880	P	0.6
4	☐	1250.000	1293.583	2382731.72	0.2217	A	1.7
5	☐	2500.000	2542.336	4650967.08	0.4358	A	2.7
6	☐	5000.000	5112.239	9379970.35	0.8762	A	1.2
7	☐	10000.000	9927.197	18787293.82	1.7014	A	2.8
8	☐			4495.23	0.0004	P	6.2

$$y = 1.7139\text{E-}004 * x + 2.3867\text{E-}005$$

$$R = 0.9999$$

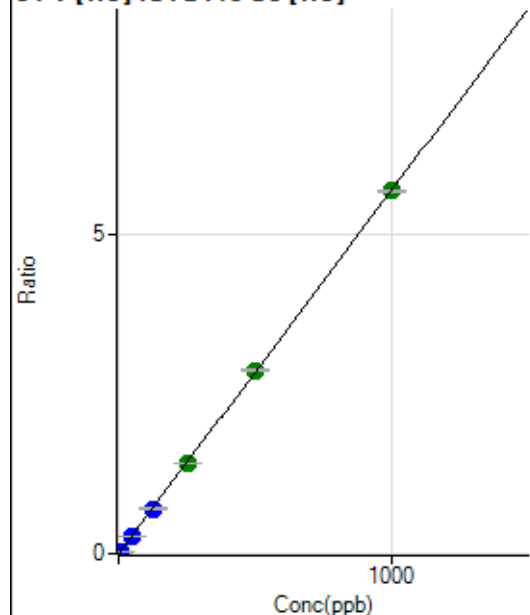
$$DL = 0.09182$$

$$BEC = 0.1393$$

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	14.44	0.0000	P	12.8
2	☐	5.000	5.067	27831.29	0.0288	P	2.5
3	☐	50.000	49.748	274942.98	0.2829	P	0.2
4	☐	125.000	124.020	675352.93	0.7053	P	1.1
5	☐	250.000	247.906	1361062.29	1.4099	A	0.7
6	☐	500.000	503.975	2772788.40	2.8661	A	1.3
7	☐	1000.000	998.671	5568262.90	5.6794	A	0.2
8	☐			1217.84	0.0012	P	12.7

$$y = 0.0057 * x + 1.4877\text{E-}005$$

$$R = 1.0000$$

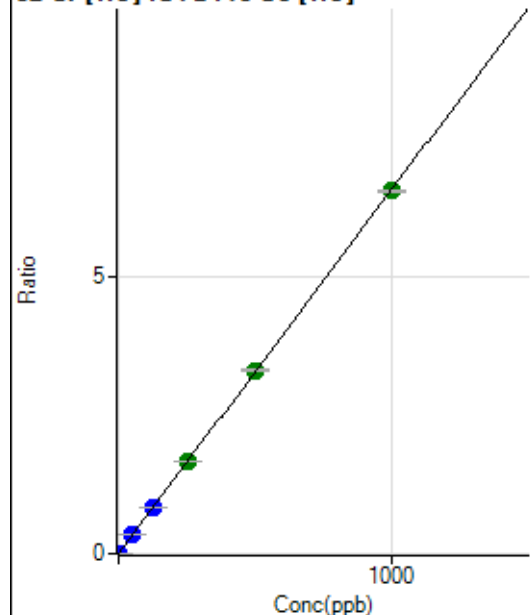
$$DL = 0.001003$$

$$BEC = 0.002616$$

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	2287.97	0.0024	P	3.0
2	☐	2.000	2.002	14969.77	0.0155	P	0.9
3	☐	50.000	50.337	323599.19	0.3330	P	0.3
4	☐	125.000	126.320	796769.10	0.8321	P	0.8
5	☐	250.000	252.246	1601831.99	1.6593	A	1.1
6	☐	500.000	504.426	3207802.73	3.3158	A	1.0
7	☐	1000.000	997.044	6423334.84	6.5516	A	0.5
8	☐			16258.86	0.0164	P	1.9

$$y = 0.0066 * x + 0.0024$$

$$R = 1.0000$$

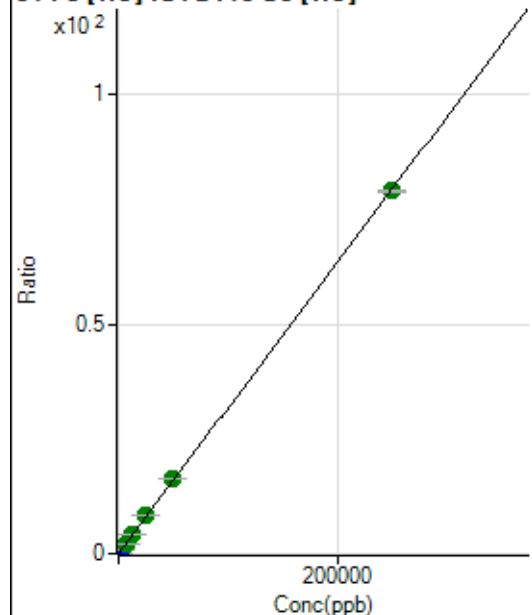
$$DL = 0.03218$$

$$BEC = 0.359$$

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	1992.19	0.0021	P	4.5
2	☐	50.000	55.959	19108.35	0.0198	P	0.9
3	☐	2500.000	2734.607	844401.90	0.8689	P	0.5
4	☐	6250.000	6561.228	1993553.10	2.0820	A	0.8
5	☐	12500.000	13246.045	4055647.59	4.2011	A	0.9
6	☐	25000.000	26324.575	8075371.75	8.3470	A	0.8
7	☐	50000.000	51963.751	16152332.50	16.4746	A	0.3
8	☐	250000.00	249427.36	78377824.23	79.0709	A	0.7

$$y = 3.1700E-004 * x + 0.0021$$

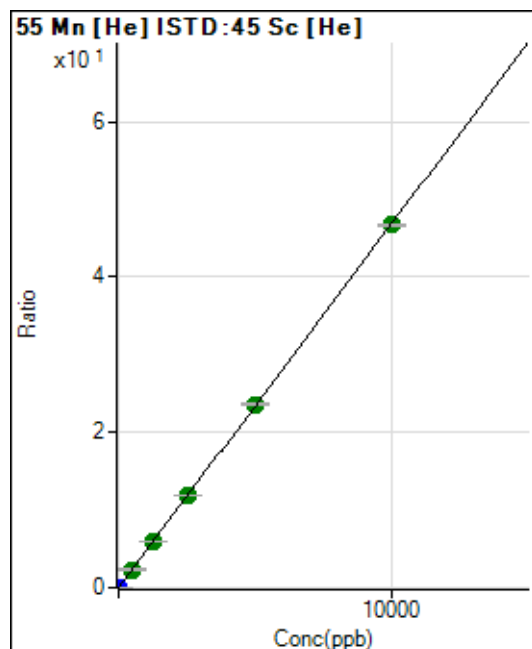
$$R = 1.0000$$

$$DL = 0.8664$$

$$BEC = 6.476$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	490.01	0.0005	P	6.6
2	☐	1.000	1.086	5395.46	0.0056	P	4.7
3	☐	500.000	499.244	2271208.42	2.3372	A	1.4
4	☐	1250.000	1250.698	5605944.71	5.8544	A	0.7
5	☐	2500.000	2534.873	11454527.33	11.8650	A	0.5
6	☐	5000.000	5035.251	22800303.27	23.5681	A	1.3
7	☐	10000.000	9973.607	45768599.32	46.6822	A	0.2
8	☐			29466.71	0.0297	P	1.7

$$y = 0.0047 * x + 5.0490E-004$$

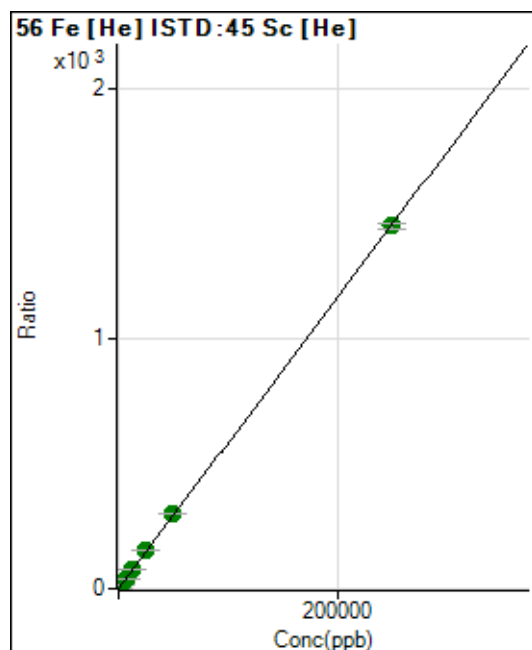
$$R = 1.0000$$

$$DL = 0.02126$$

$$BEC = 0.1079$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17241.58	0.0178	P	3.3
2	☐	50.000	53.729	319206.37	0.3306	P	0.2
3	☐	2500.000	2585.756	14648973.24	15.0747	A	0.5
4	☐	6250.000	6509.829	36315497.34	37.9246	A	0.3
5	☐	12500.000	13009.735	73153890.52	75.7736	A	0.5
6	☐	25000.000	26064.943	146850727.36	151.7942	A	1.2
7	☐	50000.000	51360.954	293236854.70	299.0932	A	0.5
8	☐	250000.00	249588.47	1440637232.2	1,453.374	A	1.3

$$y = 0.0058 * x + 0.0178$$

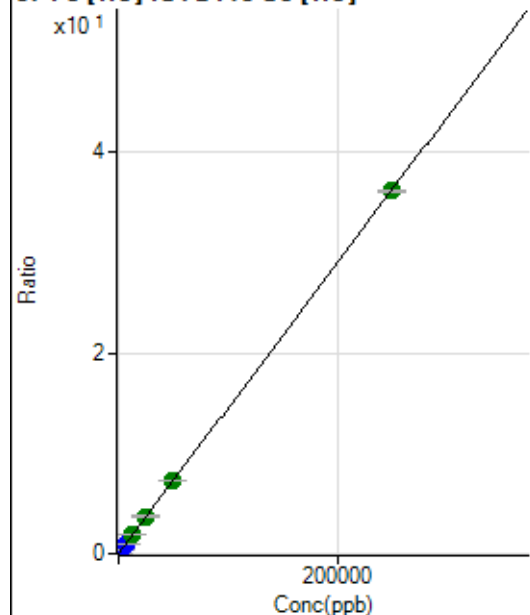
$$R = 1.0000$$

$$DL = 0.2992$$

$$BEC = 3.052$$

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	950.05	0.0010	P	2.9
2	☐	50.000	54.868	8619.25	0.0089	P	4.8
3	☐	2500.000	2612.551	368794.96	0.3795	P	0.2
4	☐	6250.000	6613.114	918418.56	0.9591	P	0.7
5	☐	12500.000	13008.260	1820529.48	1.8857	A	1.1
6	☐	25000.000	25737.356	3608632.40	3.7300	A	1.3
7	☐	50000.000	50467.668	7170116.71	7.3132	A	0.3
8	☐	250000.00	249797.11	35876831.59	36.1939	A	0.4

$$y = 1.4489\text{E-}004 * x + 9.7901\text{E-}004$$

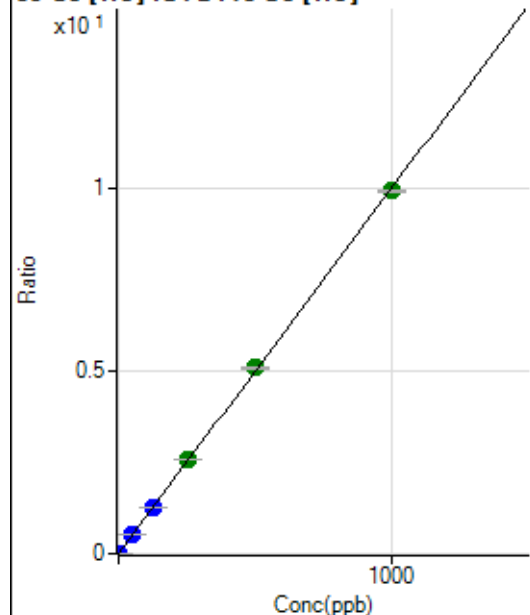
$$R = 1.0000$$

$$DL = 0.5813$$

$$BEC = 6.757$$

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	124.45	0.0001	P	12.6
2	☐	1.000	1.068	10427.04	0.0108	P	1.7
3	☐	50.000	51.228	497765.58	0.5122	P	0.7
4	☐	125.000	127.471	1220243.79	1.2744	P	1.1
5	☐	250.000	257.518	2485388.03	2.5744	A	0.6
6	☐	500.000	509.300	4925725.10	5.0913	A	0.8
7	☐	1000.000	993.100	9733389.16	9.9276	A	0.3
8	☐			17638.25	0.0178	P	1.6

$$y = 0.0100 * x + 1.2824\text{E-}004$$

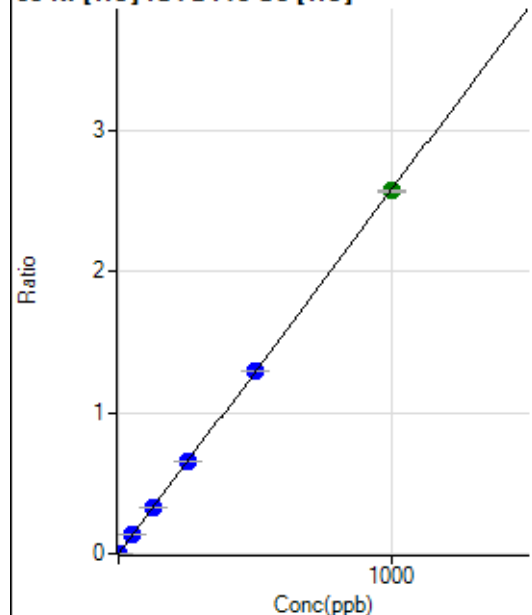
$$R = 0.9999$$

$$DL = 0.004864$$

$$BEC = 0.01283$$

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	133.34	0.0001	P	5.4
2	☐	1.000	1.038	2716.94	0.0028	P	5.9
3	☐	50.000	51.491	129145.97	0.1329	P	1.5
4	☐	125.000	128.169	316559.59	0.3306	P	0.6
5	☐	250.000	253.526	631189.10	0.6538	P	0.3
6	☐	500.000	503.162	1255286.89	1.2975	P	0.1
7	☐	1000.000	997.067	2520559.98	2.5709	A	0.6
8	☐			7227.36	0.0073	P	2.9

$$y = 0.0026 * x + 1.3743E-004$$

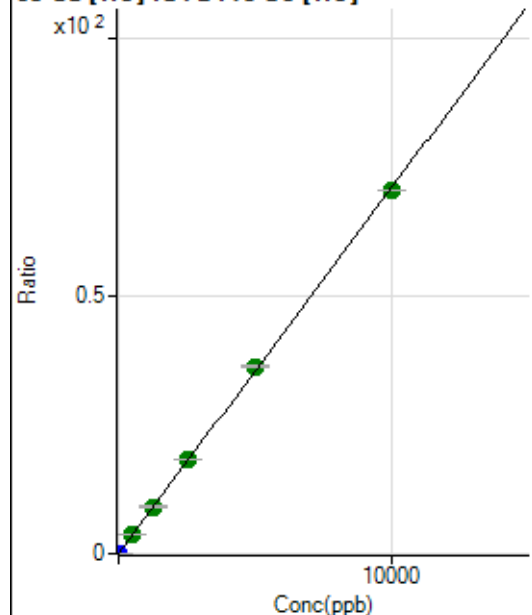
$$R = 1.0000$$

$$DL = 0.008649$$

$$BEC = 0.0533$$

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	1093.39	0.0011	P	1.6
2	☐	2.000	2.123	15659.39	0.0162	P	1.7
3	☐	500.000	520.085	3594611.75	3.6990	A	0.5
4	☐	1250.000	1285.319	8751773.06	9.1400	A	1.2
5	☐	2500.000	2580.575	17714463.62	18.3495	A	0.8
6	☐	5000.000	5113.208	35175221.42	36.3570	A	0.7
7	☐	10000.000	9917.833	69139146.75	70.5188	A	0.1
8	☐			15590.44	0.0157	P	4.0

$$y = 0.0071 * x + 0.0011$$

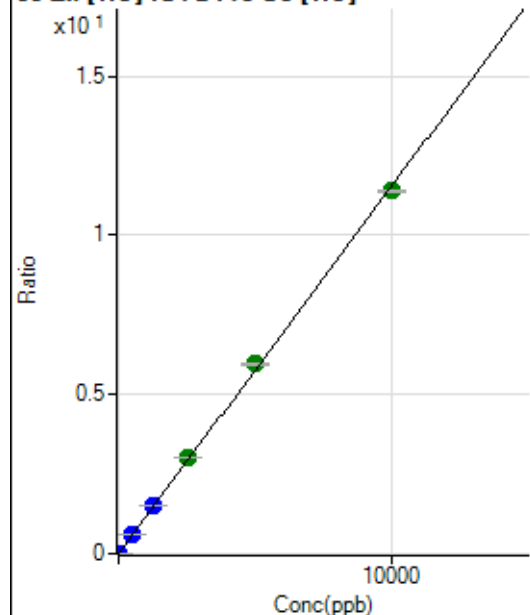
$$R = 0.9999$$

$$DL = 0.007715$$

$$BEC = 0.1585$$

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	638.91	0.0007	P	3.7
2	☐	2.000	2.344	3244.83	0.0034	P	3.0
3	☐	500.000	521.678	585157.93	0.6022	P	0.6
4	☐	1250.000	1299.889	1435750.10	1.4994	P	1.0
5	☐	2500.000	2620.596	2917723.85	3.0222	A	0.5
6	☐	5000.000	5166.257	5763684.01	5.9574	A	1.5
7	☐	10000.000	9879.402	11168762.19	11.3917	A	0.3
8	☐			9918.94	0.0100	P	2.0

$$y = 0.0012 * x + 6.5848E-004$$

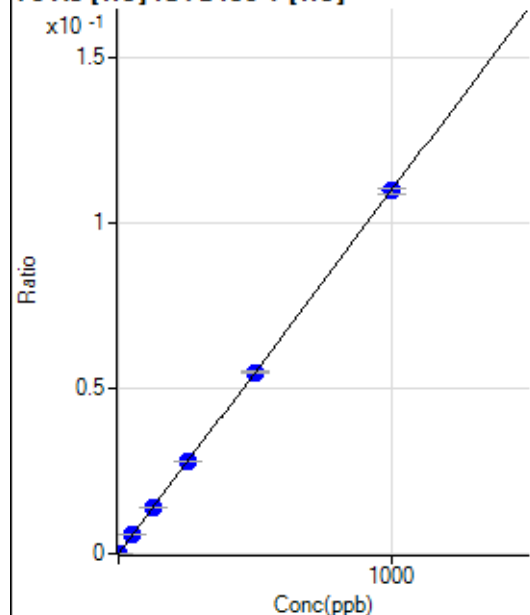
$$R = 0.9997$$

$$DL = 0.06348$$

$$BEC = 0.5711$$

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	1.85	0.0000	P	173.
2	☐	1.000	1.121	769.16	0.0001	P	7.2
3	☐	50.000	51.838	35416.79	0.0057	P	1.9
4	☐	125.000	127.587	86992.50	0.0140	P	1.5
5	☐	250.000	253.909	176939.95	0.0279	P	0.2
6	☐	500.000	499.977	357169.69	0.0549	P	0.8
7	☐	1000.000	998.619	710633.68	0.1097	P	1.4
8	☐			517.91	0.0001	P	1.7

$$y = 1.0984E-004 * x + 2.9995E-007$$

$$R = 1.0000$$

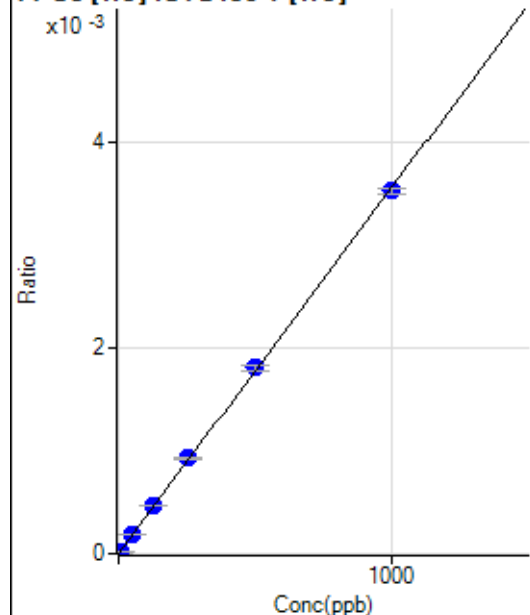
$$DL = 0.01419$$

$$BEC = 0.002731$$

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	2.22	0.0000	P	86.6
2	☐	5.000	5.760	130.00	0.0000	P	1.5
3	☐	50.000	53.506	1186.72	0.0002	P	2.3
4	☐	125.000	132.063	2920.32	0.0005	P	2.1
5	☐	250.000	261.054	5896.78	0.0009	P	1.8
6	☐	500.000	508.809	11780.34	0.0018	P	3.5
7	☐	1000.000	991.770	22874.45	0.0035	P	1.4
8	☐			7.78	0.0000	P	50.2

$$y = 3.5592\text{E-}006 * x + 3.5816\text{E-}007$$

$$R = 0.9999$$

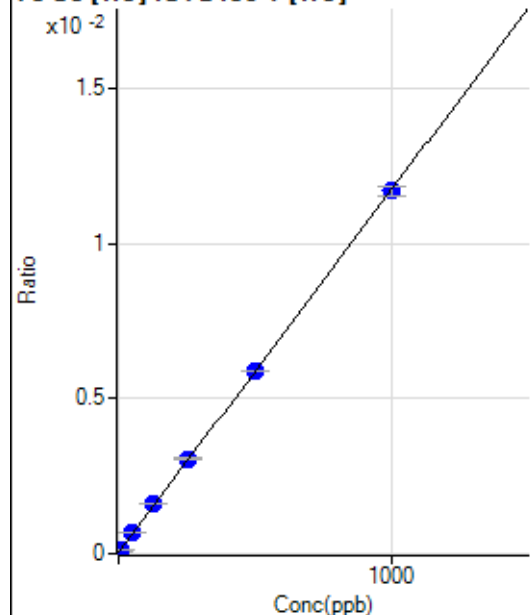
$$DL = 0.2615$$

$$BEC = 0.1006$$

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	224.70	0.0000	P	5.3
2	☐	5.000	5.962	661.13	0.0001	P	2.9
3	☐	50.000	53.397	4116.03	0.0007	P	2.8
4	☐	125.000	133.422	9926.83	0.0016	P	1.2
5	☐	250.000	257.659	19376.93	0.0031	P	1.8
6	☐	500.000	500.220	38343.40	0.0059	P	0.6
7	☐	1000.000	996.748	75868.56	0.0117	P	2.4
8	☐			348.15	0.0001	P	5.2

$$y = 1.1714\text{E-}005 * x + 3.6283\text{E-}005$$

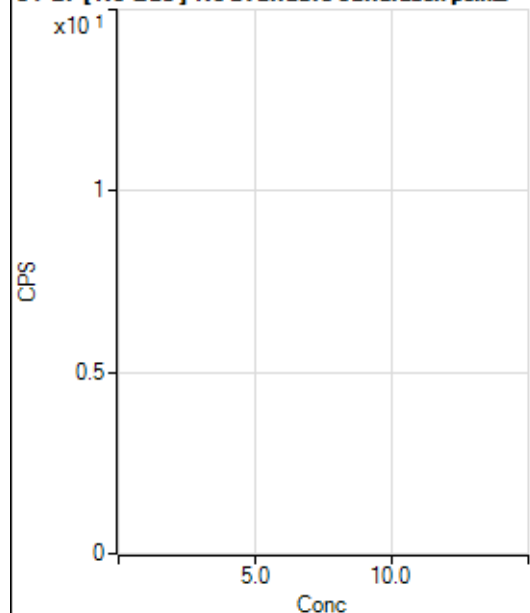
$$R = 0.9999$$

$$DL = 0.4971$$

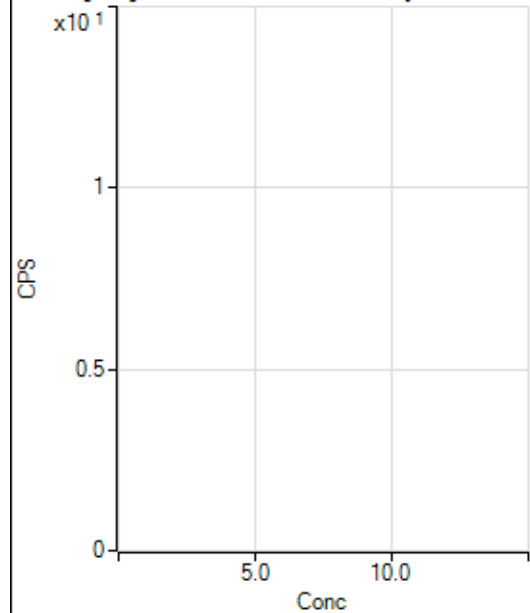
$$BEC = 3.097$$

Weight: <None>

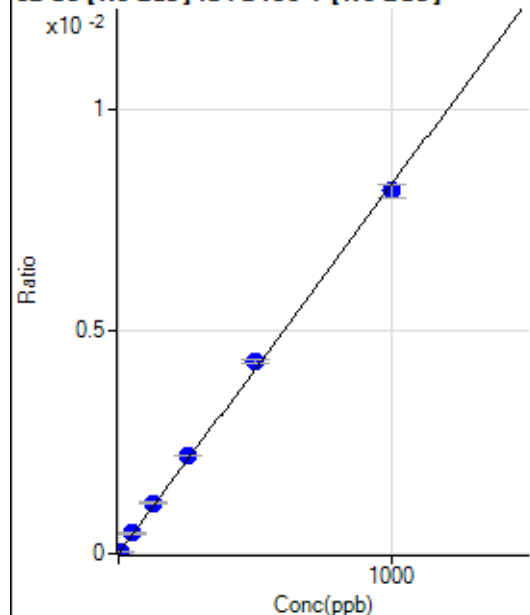
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12388.86		P	4.8
2	☐			12483.40		P	1.0
3	☐			12964.35		P	1.8
4	☐			12522.38		P	1.1
5	☐			12625.20		P	2.3
6	☐			13320.13		P	1.3
7	☐			14401.81		P	1.1
8	☐			14268.44		P	1.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.73		P	8.7
2	☐			80.08		P	NaN
3	☐			76.75		P	45.8
4	☐			96.77		P	68.9
5	☐			50.05		P	52.9
6	☐			76.74		P	7.5
7	☐			120.12		P	16.7
8	☐			133.47		P	30.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.93	0.0000	P	38.5
2	☐	5.000	5.181	1142.40	0.0000	P	9.8
3	☐	50.000	54.836	11564.46	0.0005	P	2.6
4	☐	125.000	136.941	28337.68	0.0011	P	2.1
5	☐	250.000	265.654	56173.77	0.0022	P	1.6
6	☐	500.000	522.157	112058.87	0.0043	P	1.8
7	☐	1000.000	983.273	218104.72	0.0082	P	3.9
8	☐			162.02	0.0000	P	13.0

$$y = 8.3004E-006 * x + 2.4882E-006$$

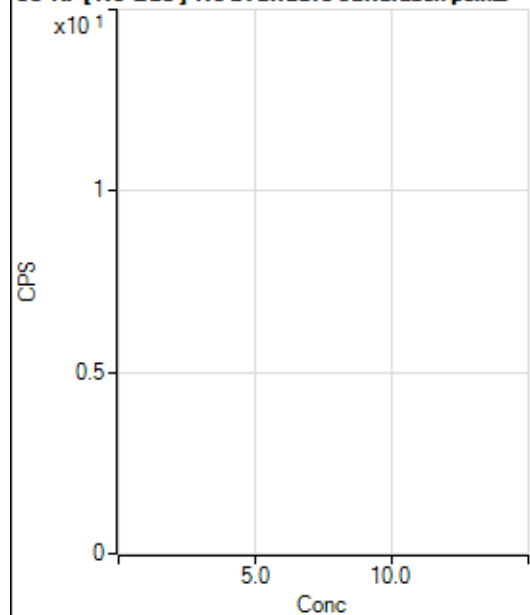
$$R = 0.9995$$

$$DL = 0.3464$$

$$BEC = 0.2998$$

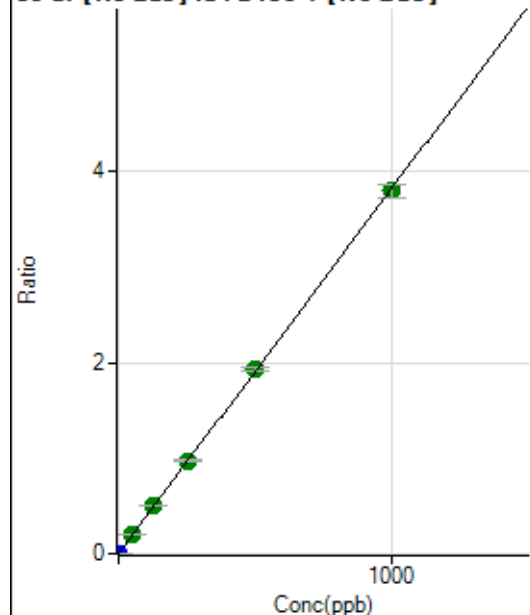
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			672.25		P	7.8
2	☐			673.36		P	13.3
3	☐			701.13		P	6.4
4	☐			691.13		P	4.1
5	☐			715.58		P	6.8
6	☐			792.25		P	8.8
7	☐			728.92		P	6.5
8	☐			765.59		P	2.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1255.65	0.0001	P	8.1
2	☐	1.000	0.041	5189.94	0.0002	P	4.1
3	☐	50.000	51.887	5013880.32	0.1984	A	2.1
4	☐	125.000	130.477	12410494.20	0.4988	A	1.1
5	☐	250.000	254.660	24774262.36	0.9736	A	1.4
6	☐	500.000	507.416	50126225.08	1.9398	A	1.7
7	☐	1000.000	994.349	101570204.35	3.8013	A	3.5
8	☐			44228.06	0.0017	P	2.6

$$y = 0.0038 * x + 5.0368E-005$$

$$R = 0.9999$$

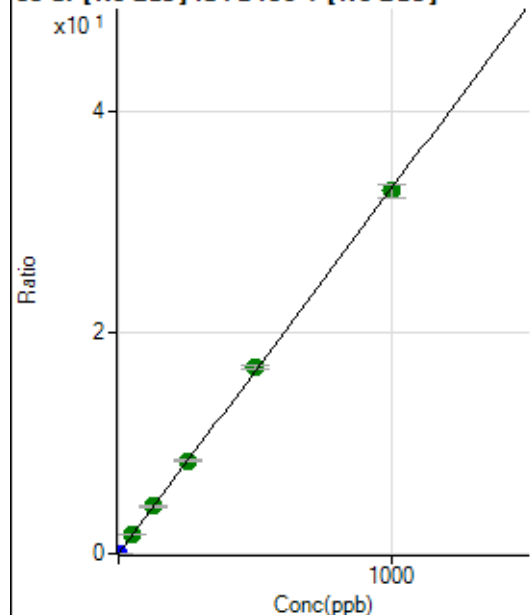
$$DL = 0.003213$$

$$BEC = 0.01318$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1066.73	0.0000	P	7.3
2	☐	1.000	0.041	35315.37	0.0014	P	0.6
3	☐	50.000	51.601	43043842.63	1.7031	A	1.0
4	☐	125.000	129.475	106316109.32	4.2733	A	0.8
5	☐	250.000	254.838	214027447.84	8.4109	A	1.6
6	☐	500.000	509.303	434356512.49	16.8095	A	1.8
7	☐	1000.000	993.500	876204075.14	32.7903	A	3.7
8	☐			375950.68	0.0147	P	2.0

$$y = 0.0330 * x + 4.2765E-005$$

$$R = 0.9999$$

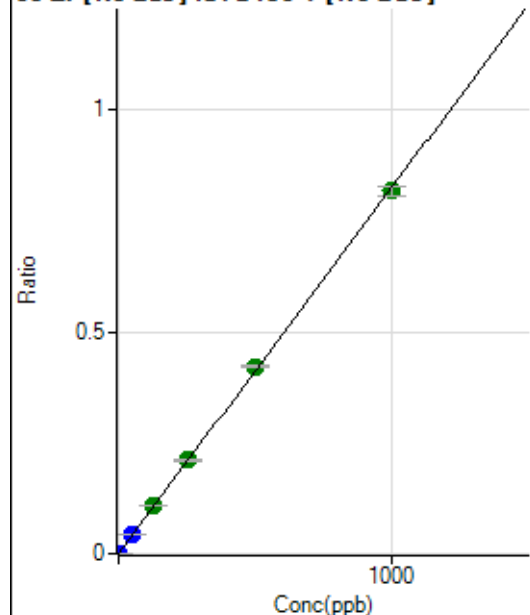
$$DL = 0.0002854$$

$$BEC = 0.001296$$

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	1461.22	0.0001	P	1.5
2	☐	1.000	1.015	22492.68	0.0009	P	0.2
3	☐	50.000	51.980	1085062.85	0.0429	P	1.8
4	☐	125.000	131.701	2704402.79	0.1087	A	1.0
5	☐	250.000	255.249	5359460.71	0.2106	A	1.8
6	☐	500.000	511.702	10909363.09	0.4222	A	1.2
7	☐	1000.000	991.900	21871980.70	0.8183	A	2.6
8	☐			14221.14	0.0006	P	3.3

$$y = 8.2492\text{E-}004 * x + 5.8585\text{E-}005$$

$$R = 0.9999$$

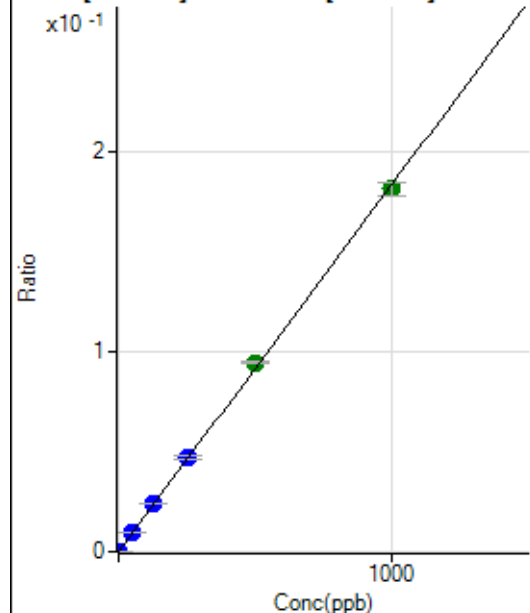
$$DL = 0.00325$$

$$BEC = 0.07102$$

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	258.35	0.0000	P	25.6
2	☐	1.000	0.993	4831.49	0.0002	P	2.2
3	☐	50.000	52.181	241978.44	0.0096	P	1.3
4	☐	125.000	131.306	598985.23	0.0241	P	1.7
5	☐	250.000	256.679	1197432.56	0.0471	P	2.5
6	☐	500.000	516.052	2444789.55	0.0946	A	1.0
7	☐	1000.000	989.407	4846496.64	0.1814	A	3.4
8	☐			3028.16	0.0001	P	3.4

$$y = 1.8329\text{E-}004 * x + 1.0366\text{E-}005$$

$$R = 0.9998$$

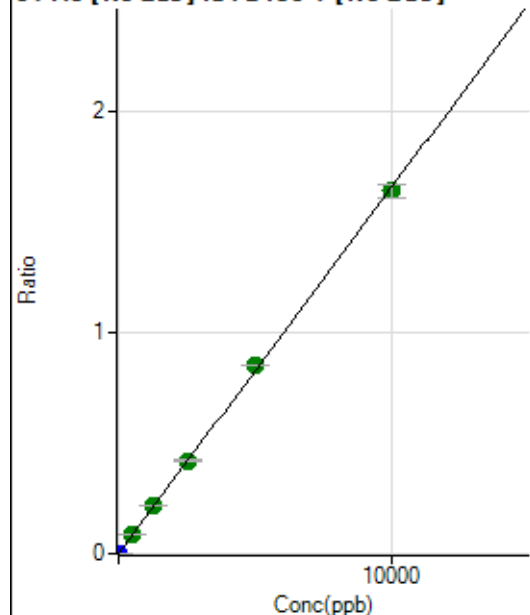
$$DL = 0.04343$$

$$BEC = 0.05655$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	411.13	0.0000	P	19.9
2	☐	5.000	6.168	26112.77	0.0010	P	2.7
3	☐	500.000	518.510	2174407.14	0.0860	A	1.1
4	☐	1250.000	1312.917	5418645.96	0.2178	A	2.1
5	☐	2500.000	2531.280	10686519.51	0.4200	A	1.3
6	☐	5000.000	5149.350	22076629.31	0.8543	A	0.7
7	☐	10000.000	9908.714	43922681.19	1.6439	A	3.4
8	☐			15789.44	0.0006	P	5.8

$$y = 1.6590E-004 * x + 1.6504E-005$$

$$R = 0.9998$$

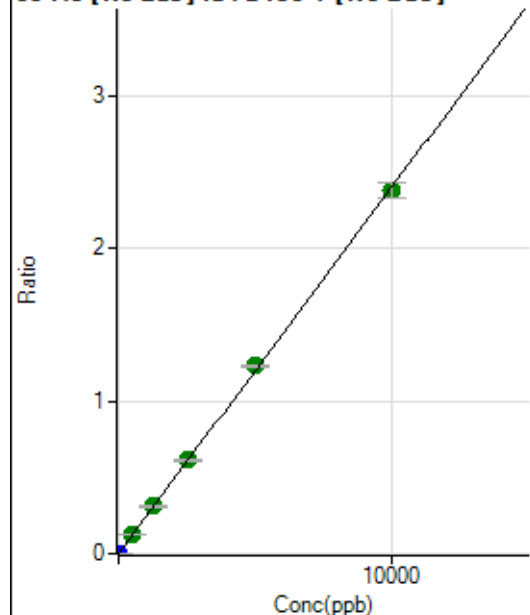
$$DL = 0.05939$$

$$BEC = 0.09948$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.78	0.0000	P	18.6
2	☐	5.000	5.273	31826.97	0.0013	P	0.5
3	☐	500.000	521.550	3162825.11	0.1252	A	1.3
4	☐	1250.000	1305.705	7793417.45	0.3133	A	3.0
5	☐	2500.000	2552.316	15584010.07	0.6124	A	2.3
6	☐	5000.000	5142.547	31888670.16	1.2340	A	0.9
7	☐	10000.000	9907.607	63508529.20	2.3774	A	4.1
8	☐			18665.15	0.0007	P	5.0

$$y = 2.3995E-004 * x + 2.1172E-006$$

$$R = 0.9998$$

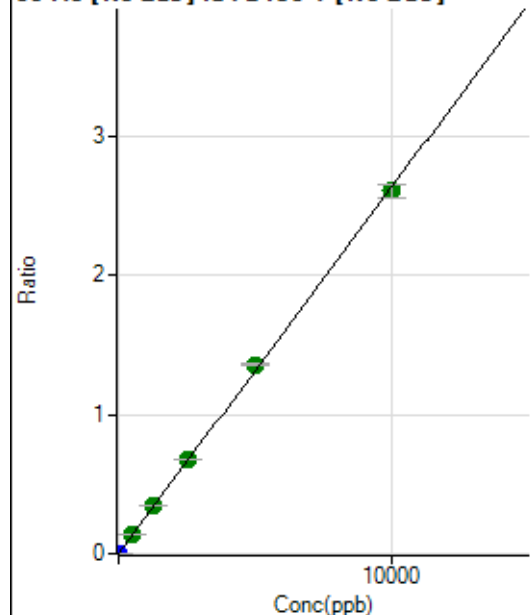
$$DL = 0.00492$$

$$BEC = 0.008823$$

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	13.7
2	☐	5.000	5.340	35571.72	0.0014	P	0.4
3	☐	500.000	525.485	3498612.84	0.1384	A	1.6
4	☐	1250.000	1304.218	8546933.79	0.3436	A	2.3
5	☐	2500.000	2567.704	17212377.12	0.6764	A	1.6
6	☐	5000.000	5144.731	35022479.95	1.3553	A	1.0
7	☐	10000.000	9902.657	69697259.89	2.6086	A	3.6
8	☐			28019.08	0.0011	P	2.4

$$y = 2.6343\text{E-}004 * x + 9.8012\text{E-}006$$

$$R = 0.9998$$

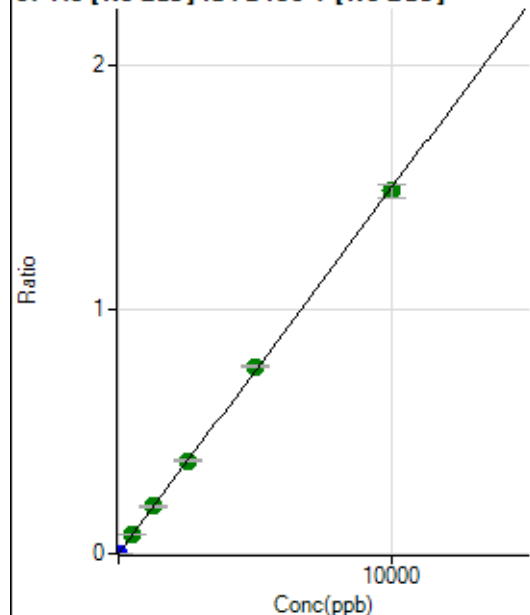
$$DL = 0.01535$$

$$BEC = 0.03721$$

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	27.78	0.0000	P	16.7
2	☐	5.000	5.065	19060.09	0.0008	P	1.9
3	☐	500.000	523.850	1980955.80	0.0784	A	1.2
4	☐	1250.000	1298.427	4832966.08	0.1943	A	2.6
5	☐	2500.000	2536.942	9659332.07	0.3796	A	1.3
6	☐	5000.000	5124.330	19812190.02	0.7667	A	1.6
7	☐	10000.000	9921.353	39664621.37	1.4845	A	3.4
8	☐			11376.96	0.0004	P	4.8

$$y = 1.4962\text{E-}004 * x + 1.1129\text{E-}006$$

$$R = 0.9999$$

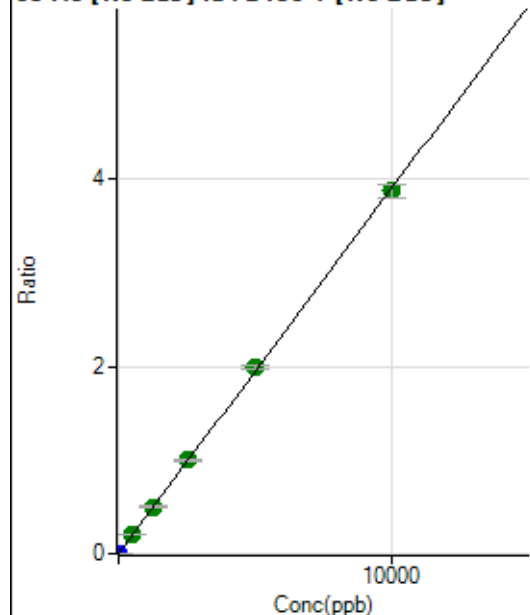
$$DL = 0.003717$$

$$BEC = 0.007438$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	97.23	0.0000	P	17.1
2	☐	5.000	5.169	50769.44	0.0020	P	0.6
3	☐	500.000	515.371	5083708.62	0.2012	A	1.7
4	☐	1250.000	1281.256	12439813.04	0.5001	A	2.8
5	☐	2500.000	2558.862	25415462.55	0.9988	A	1.9
6	☐	5000.000	5087.587	51313663.65	1.9858	A	1.9
7	☐	10000.000	9936.815	103626569.68	3.8786	A	3.6
8	☐			29143.64	0.0011	P	6.3

$$y = 3.9033\text{E-}004 * x + 3.8946\text{E-}006$$

$$R = 0.9999$$

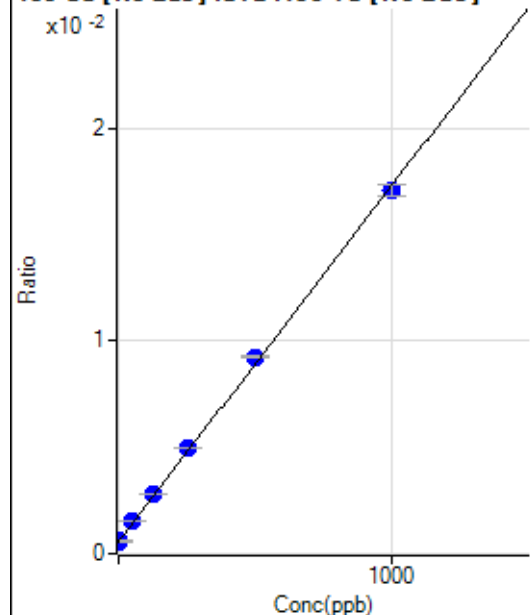
$$DL = 0.005104$$

$$BEC = 0.009978$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10690.32	0.0006	P	2.3
2	☐	1.000	2.084	11435.36	0.0006	P	3.7
3	☐	50.000	57.599	29363.65	0.0015	P	1.2
4	☐	125.000	133.269	53792.09	0.0028	P	1.5
5	☐	250.000	262.624	97519.22	0.0050	P	0.5
6	☐	500.000	518.880	183774.31	0.0092	P	1.2
7	☐	1000.000	985.989	349878.28	0.0171	P	3.1
8	☐			11502.08	0.0006	P	1.8

$$y = 1.6734\text{E-}005 * x + 5.6273\text{E-}004$$

$$R = 0.9996$$

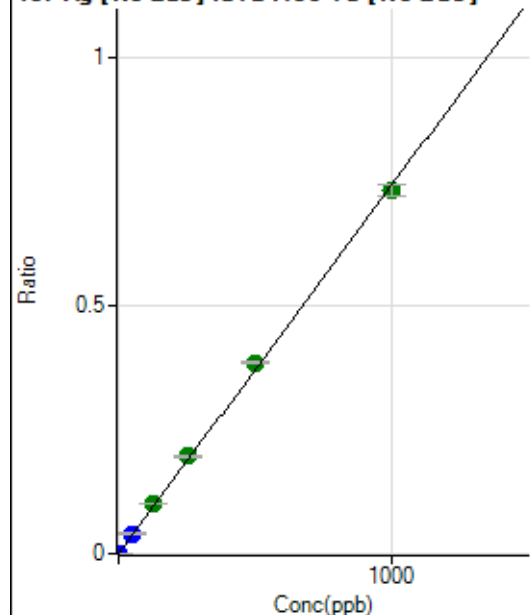
$$DL = 2.275$$

$$BEC = 33.63$$

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	108.34	0.0000	P	8.4
2	☐	1.000	1.005	14357.52	0.0008	P	10.2
3	☐	50.000	54.485	777845.05	0.0404	P	1.7
4	☐	125.000	136.204	1946666.02	0.1011	A	1.8
5	☐	250.000	264.276	3858052.21	0.1961	A	0.8
6	☐	500.000	518.798	7652606.16	0.3850	A	0.6
7	☐	1000.000	985.407	14992571.52	0.7313	A	3.2
8	☐			6468.26	0.0003	P	9.7

$$y = 7.4212\text{E-}004 * x + 5.7046\text{E-}006$$

$$R = 0.9996$$

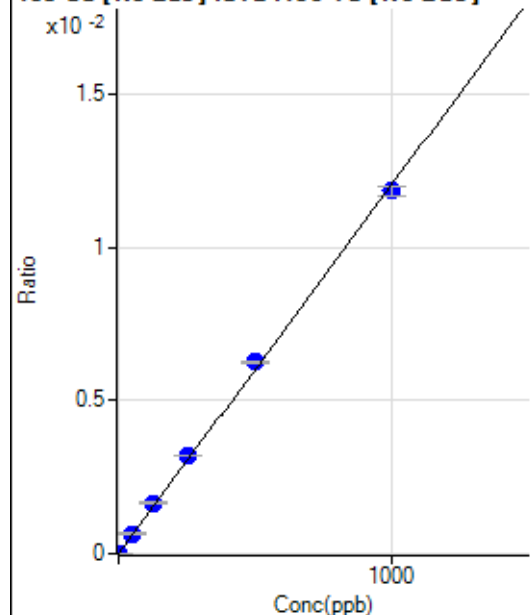
$$DL = 0.001928$$

$$BEC = 0.007687$$

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	26.39	0.0000	P	8.4
2	☐	1.000	1.144	290.28	0.0000	P	14.3
3	☐	50.000	54.634	12689.02	0.0007	P	1.1
4	☐	125.000	136.722	31750.17	0.0016	P	2.5
5	☐	250.000	265.104	62856.45	0.0032	P	0.9
6	☐	500.000	520.604	124697.03	0.0063	P	1.3
7	☐	1000.000	984.225	243168.05	0.0119	P	2.9
8	☐			237.51	0.0000	P	12.9

$$y = 1.2048\text{E-}005 * x + 1.3885\text{E-}006$$

$$R = 0.9995$$

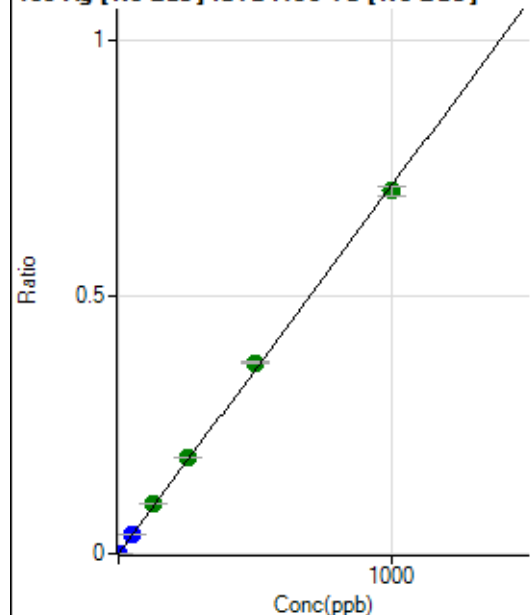
$$DL = 0.029$$

$$BEC = 0.1152$$

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	33.34	0.0000	P	43.0
2	☐	1.000	0.964	13214.71	0.0007	P	9.0
3	☐	50.000	54.332	747567.81	0.0389	P	1.2
4	☐	125.000	134.742	1856277.78	0.0964	A	0.5
5	☐	250.000	262.266	3690310.98	0.1876	A	0.4
6	☐	500.000	518.322	7369052.86	0.3708	A	1.0
7	☐	1000.000	986.338	14468302.58	0.7055	A	2.6
8	☐			6165.36	0.0003	P	5.4

$$y = 7.1530E-004 * x + 1.7524E-006$$

$$R = 0.9996$$

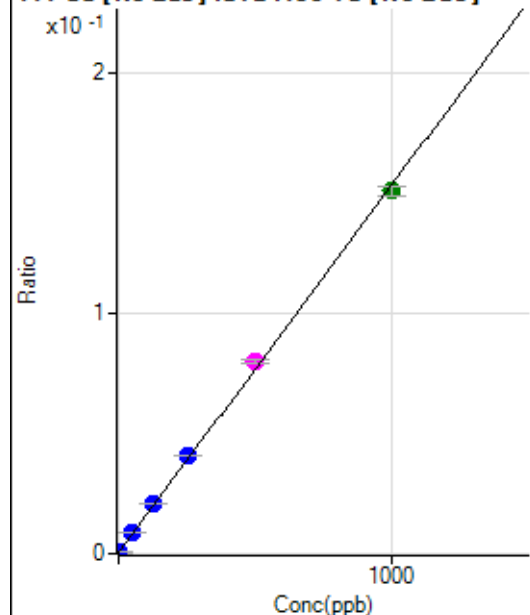
$$DL = 0.003161$$

$$BEC = 0.00245$$

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	7470.31	0.0004	P	2.2
2	☐	1.000	1.196	11020.01	0.0006	P	3.0
3	☐	50.000	55.016	169148.91	0.0088	P	0.3
4	☐	125.000	134.561	403285.98	0.0209	P	0.7
5	☐	250.000	263.897	800349.39	0.0407	P	0.1
6	☐	500.000	520.329	1586934.23	0.0798	M	1.2
7	☐	1000.000	984.915	3091829.87	0.1508	A	3.0
8	☐			8678.29	0.0005	P	2.0

$$y = 1.5269E-004 * x + 3.9323E-004$$

$$R = 0.9996$$

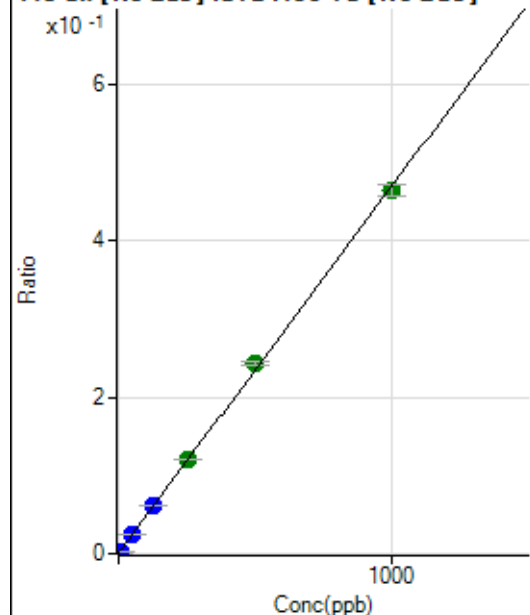
$$DL = 0.1706$$

$$BEC = 2.575$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15372.69	0.0008	P	3.9
2	☐	5.000	5.160	61735.70	0.0032	P	1.1
3	☐	50.000	52.623	489779.62	0.0255	P	1.4
4	☐	125.000	130.850	1196269.84	0.0621	P	0.9
5	☐	250.000	257.220	2386494.41	0.1213	A	0.4
6	☐	500.000	517.981	4839704.71	0.2435	A	1.3
7	☐	1000.000	988.341	9509634.85	0.4639	A	3.1
8	☐			10837.70	0.0006	P	2.5

$$y = 4.6851\text{E-}004 * x + 8.0930\text{E-}004$$

$$R = 0.9997$$

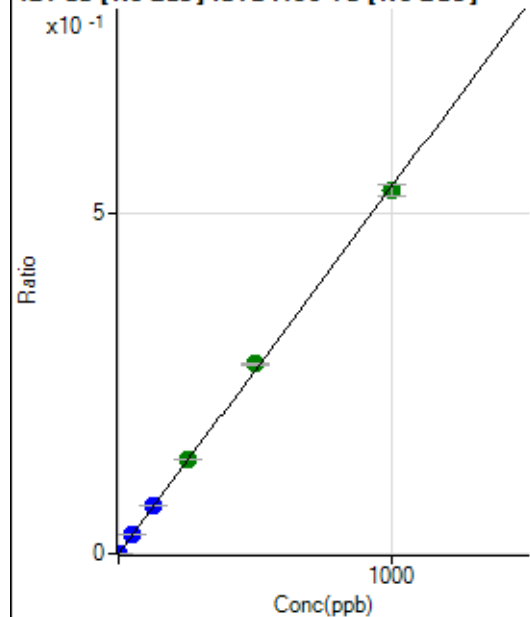
$$DL = 0.2007$$

$$BEC = 1.727$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.56	0.0000	P	34.3
2	☐	2.000	2.041	21163.28	0.0011	P	0.4
3	☐	50.000	52.158	542279.29	0.0282	P	0.7
4	☐	125.000	129.631	1349365.74	0.0701	P	1.2
5	☐	250.000	256.441	2726329.90	0.1386	A	0.7
6	☐	500.000	517.585	5560018.74	0.2797	A	0.5
7	☐	1000.000	988.910	10956974.90	0.5345	A	3.2
8	☐			13084.05	0.0007	P	3.5

$$y = 5.4045\text{E-}004 * x + 2.9212\text{E-}006$$

$$R = 0.9997$$

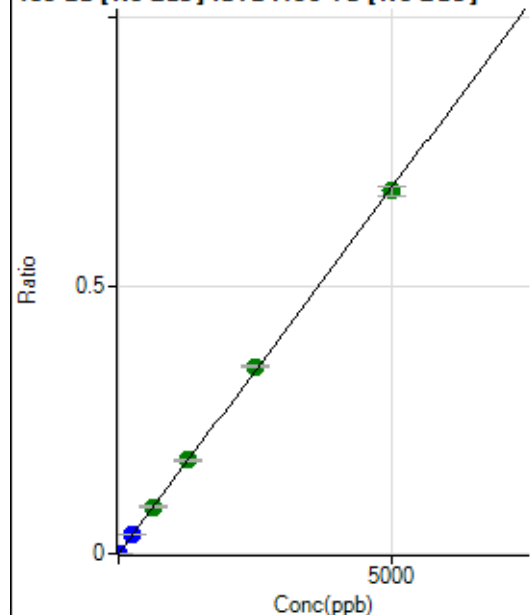
$$DL = 0.005564$$

$$BEC = 0.005405$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.11	0.0000	P	12.6
2	☐	10.000	10.047	26238.70	0.0014	P	2.9
3	☐	250.000	256.569	672972.14	0.0350	P	0.6
4	☐	625.000	644.101	1691436.90	0.0878	A	0.6
5	☐	1250.000	1275.924	3422231.67	0.1740	A	0.2
6	☐	2500.000	2559.772	6937303.54	0.3490	A	0.8
7	☐	5000.000	4960.917	13868854.74	0.6764	A	2.9
8	☐			7666.15	0.0004	P	4.5

$$y = 1.3635E-004 * x + 1.8996E-006$$

$$R = 0.9999$$

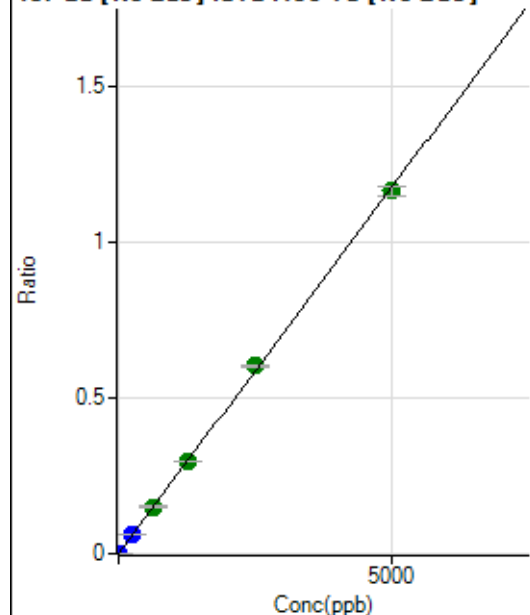
$$DL = 0.005261$$

$$BEC = 0.01393$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0000	P	55.4
2	☐	10.000	10.100	45543.47	0.0024	P	1.3
3	☐	250.000	256.620	1161549.11	0.0604	P	1.6
4	☐	625.000	642.825	2913355.95	0.1513	A	0.7
5	☐	1250.000	1266.950	5864346.35	0.2981	A	0.3
6	☐	2500.000	2569.542	12017640.89	0.6046	A	0.6
7	☐	5000.000	4958.432	23925215.12	1.1668	A	3.0
8	☐			13918.24	0.0007	P	2.8

$$y = 2.3531E-004 * x + 4.0986E-006$$

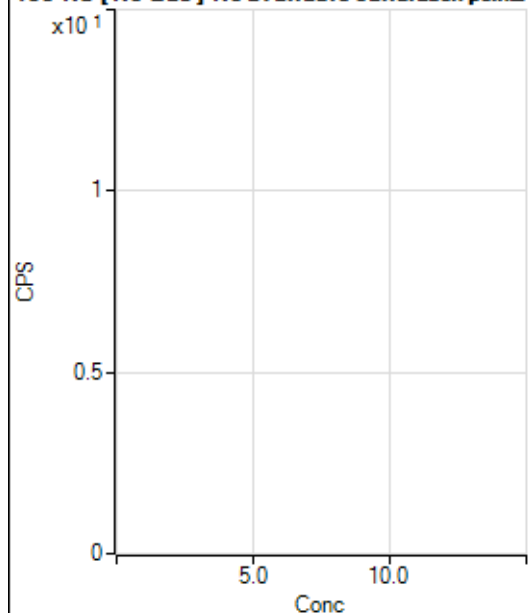
$$R = 0.9998$$

$$DL = 0.02897$$

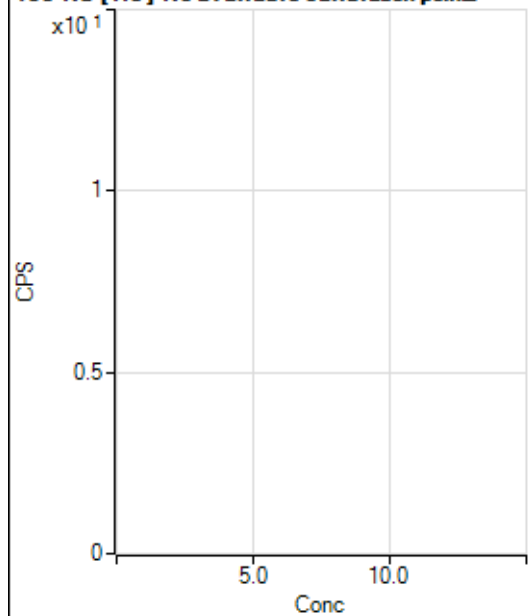
$$BEC = 0.01742$$

Weight: <None>

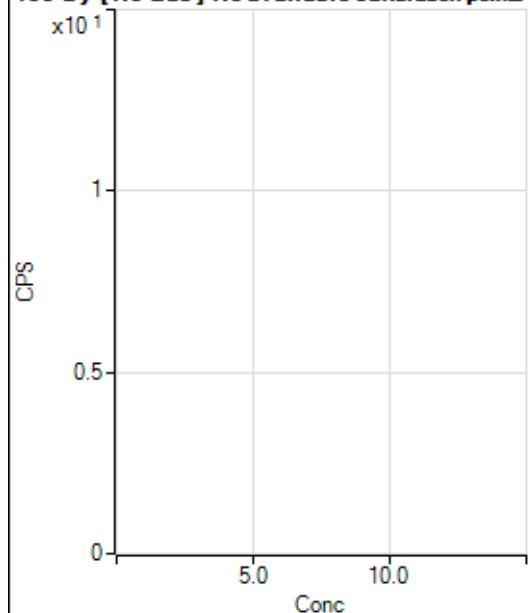
Min Conc: 0

150 Nd [No Gas] No available calibration points

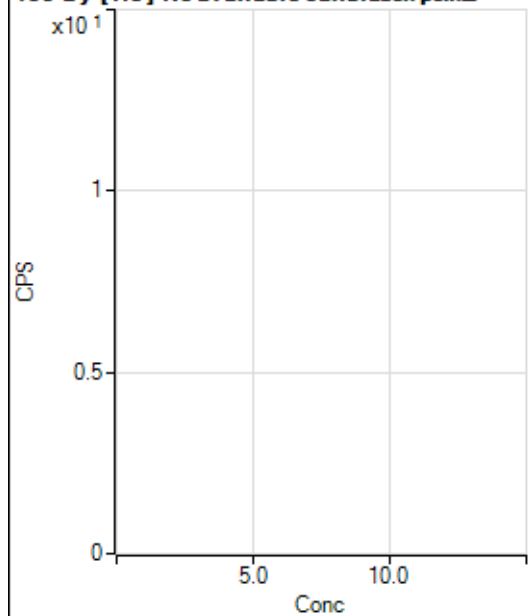
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			11.11		P	91.7
3	☐			53.33		P	12.5
4	☐			148.89		P	21.2
5	☐			262.23		P	8.2
6	☐			435.57		P	19.9
7	☐			931.16		P	4.1
8	☐			115.56		P	3.3

150 Nd [He] No available calibration points

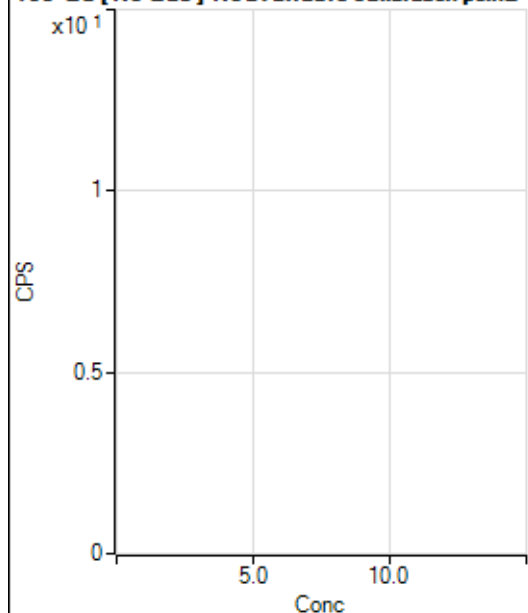
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			4.44		P	114.
3	☐			11.11		P	75.5
4	☐			30.00		P	29.4
5	☐			46.67		P	14.3
6	☐			102.22		P	10.5
7	☐			205.56		P	14.6
8	☐			72.22		P	35.9

156 Dy [No Gas] No available calibration points

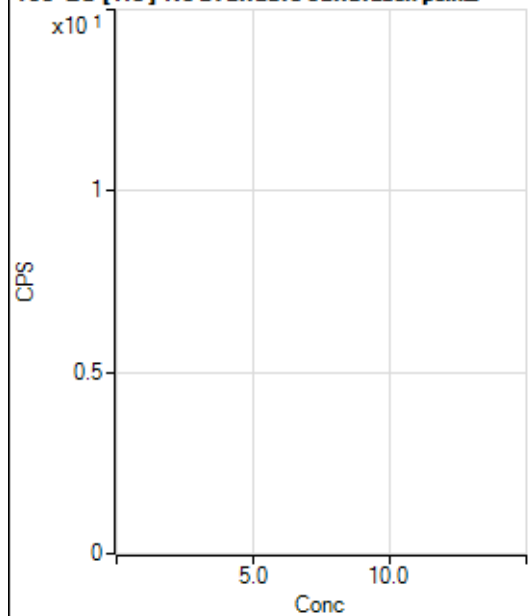
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			8.33		P	100.
3	☐			30.56		P	56.8
4	☐			58.34		P	49.5
5	☐			127.78		P	15.1
6	☐			219.45		P	13.3
7	☐			575.03		P	4.3
8	☐			1341.76		P	10.6

156 Dy [He] No available calibration points

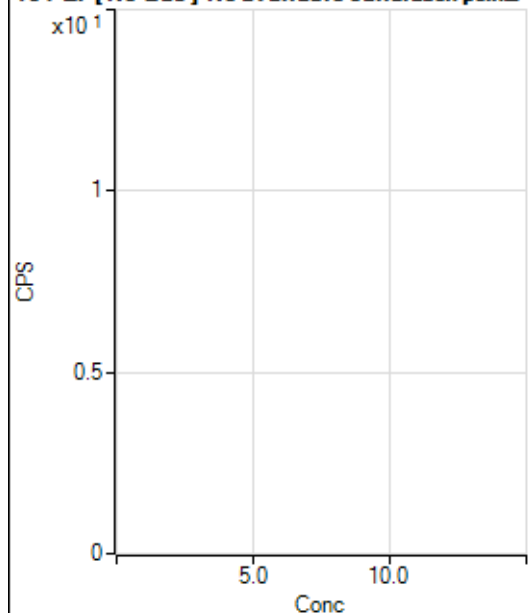
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	50.0
3	☐			37.78		P	13.5
4	☐			80.00		P	11.0
5	☐			175.56		P	12.6
6	☐			333.34		P	10.4
7	☐			716.69		P	5.4
8	☐			955.60		P	7.6

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

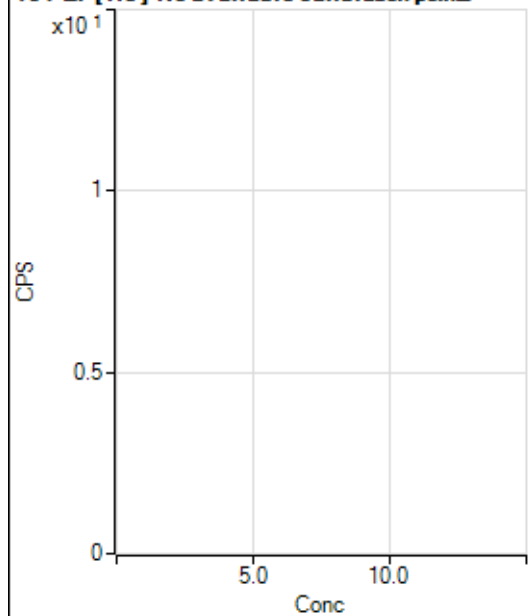
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			225.01		P	11.1
2	☐			247.23		P	10.3
3	☐			191.68		P	15.7
4	☐			222.23		P	24.4
5	☐			316.68		P	16.0
6	☐			344.46		P	2.8
7	☐			472.24		P	12.4
8	☐			1136.19		P	7.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			633.35		P	9.0
2	☐			651.13		P	5.6
3	☐			661.14		P	9.0
4	☐			660.02		P	1.8
5	☐			698.91		P	13.3
6	☐			686.69		P	2.1
7	☐			811.14		P	8.8
8	☐			1322.30		P	4.8

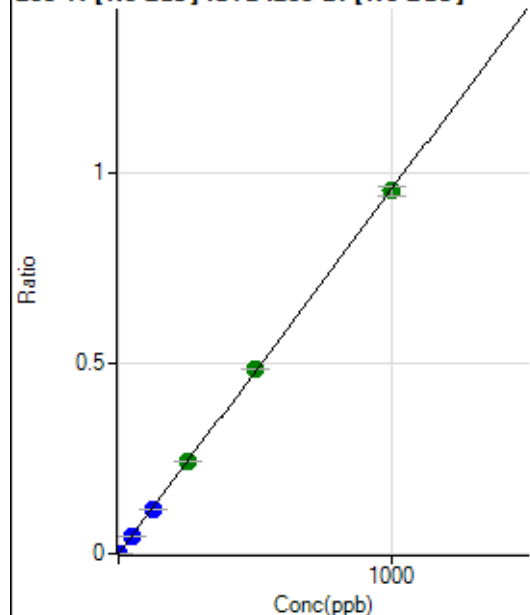
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			116.67		P	18.9
2	☐			130.56		P	13.3
3	☐			122.23		P	27.6
4	☐			141.67		P	20.4
5	☐			161.12		P	37.4
6	☐			172.23		P	14.8
7	☐			200.01		P	14.4
8	☐			247.23		P	12.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			92.22		P	29.0
2	☐			70.00		P	20.8
3	☐			88.89		P	20.7
4	☐			106.67		P	21.7
5	☐			116.67		P	25.4
6	☐			104.45		P	22.4
7	☐			130.00		P	19.4
8	☐			136.67		P	8.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	136.12	0.0000	P	9.3
2	☐	1.000	0.950	11332.81	0.0009	P	2.9
3	☐	50.000	47.515	564616.95	0.0456	P	0.2
4	☐	125.000	119.608	1421279.92	0.1147	P	1.2
5	☐	250.000	254.888	3101889.35	0.2444	A	0.6
6	☐	500.000	507.042	6035234.30	0.4861	A	0.6
7	☐	1000.000	996.055	11966406.87	0.9549	A	2.9
8	☐			4189.67	0.0004	P	10.5

$$y = 9.5866E-004 * x + 1.1017E-005$$

$$R = 0.9999$$

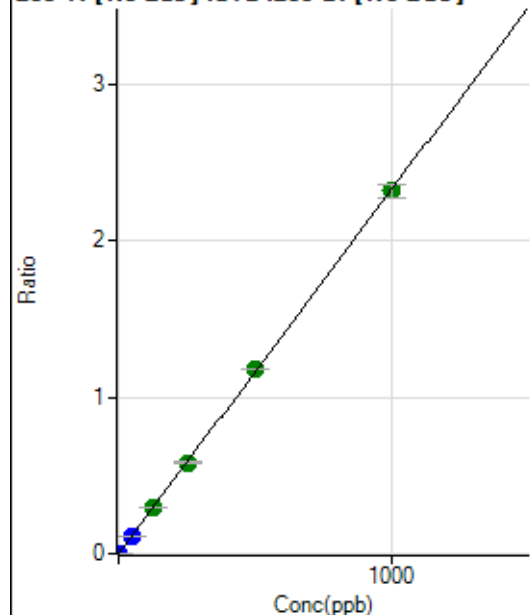
$$DL = 0.003194$$

$$BEC = 0.01149$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	286.12	0.0000	P	18.8
2	☐	1.000	0.929	26843.80	0.0022	P	0.9
3	☐	50.000	47.141	1358016.83	0.1096	P	1.4
4	☐	125.000	126.358	3640441.36	0.2937	A	1.6
5	☐	250.000	249.836	7371653.20	0.5807	A	1.1
6	☐	500.000	506.591	14620203.45	1.1775	A	0.7
7	☐	1000.000	996.718	29031961.41	2.3168	A	3.6
8	☐			10145.77	0.0009	P	7.8

$$y = 0.0023 * x + 2.3162E-005$$

$$R = 1.0000$$

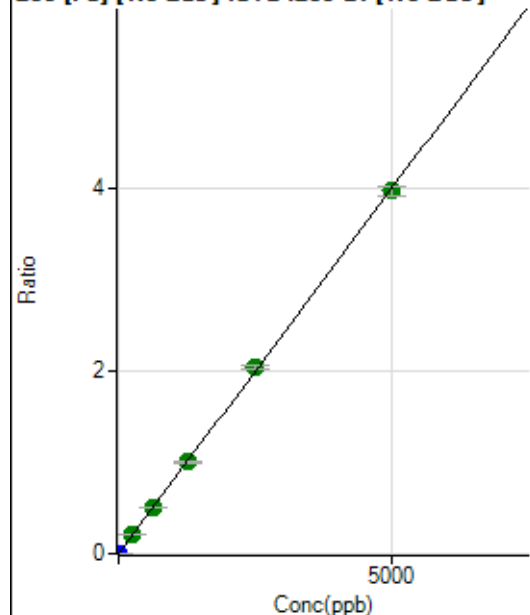
$$DL = 0.005623$$

$$BEC = 0.009965$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	214.82	0.0000	P	22.3
2	☐	1.000	0.941	9477.51	0.0008	P	2.2
3	☐	250.000	255.130	2529838.37	0.2042	A	1.4
4	☐	625.000	639.336	6340986.25	0.5116	A	1.6
5	☐	1250.000	1260.175	12799696.12	1.0084	A	1.6
6	☐	2500.000	2548.976	25323060.29	2.0397	A	1.9
7	☐	5000.000	4970.920	49848829.36	3.9777	A	2.8
8	☐			14958.46	0.0014	P	5.4

$$y = 8.0018\text{E-}004 * x + 1.7387\text{E-}005$$

$$R = 0.9999$$

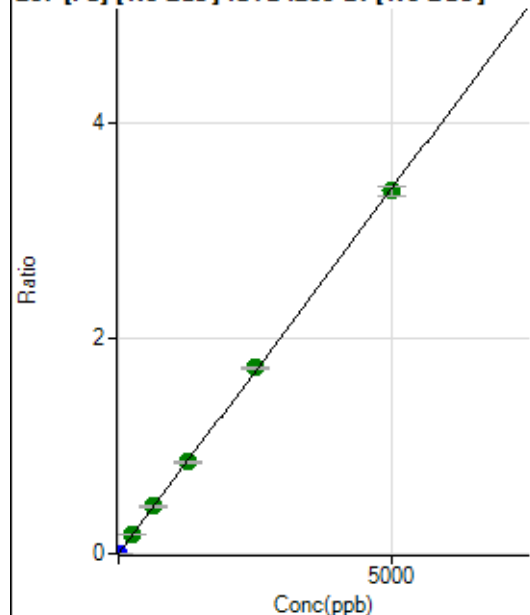
$$DL = 0.01453$$

$$BEC = 0.02173$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	164.82	0.0000	P	8.6
2	☐	1.000	0.924	7863.57	0.0006	P	3.9
3	☐	250.000	256.061	2150166.24	0.1735	A	1.1
4	☐	625.000	646.471	5429560.48	0.4381	A	1.0
5	☐	1250.000	1257.237	10813589.94	0.8519	A	1.5
6	☐	2500.000	2544.340	21405534.27	1.7241	A	1.3
7	☐	5000.000	4973.034	42233942.15	3.3698	A	2.4
8	☐			12096.44	0.0011	P	5.4

$$y = 6.7761\text{E-}004 * x + 1.3341\text{E-}005$$

$$R = 0.9999$$

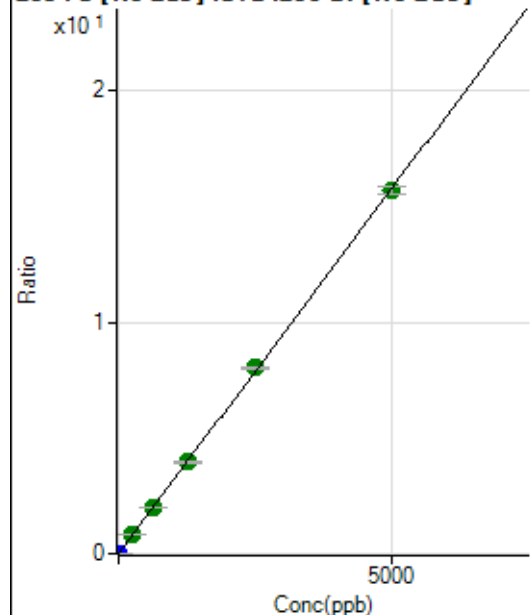
$$DL = 0.005056$$

$$BEC = 0.01969$$

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	859.28	0.0001	P	2.6
2	☐	1.000	0.919	36436.43	0.0030	P	1.3
3	☐	250.000	255.233	9962389.73	0.8040	A	1.2
4	☐	625.000	640.366	25000647.95	2.0171	A	0.9
5	☐	1250.000	1256.217	50225331.33	3.9569	A	1.7
6	☐	2500.000	2545.320	99539645.74	8.0173	A	1.1
7	☐	5000.000	4973.603	196336396.06	15.6658	A	2.2
8	☐			57478.74	0.0053	P	4.0

$$y = 0.0031 * x + 6.9550E-005$$

$$R = 0.9999$$

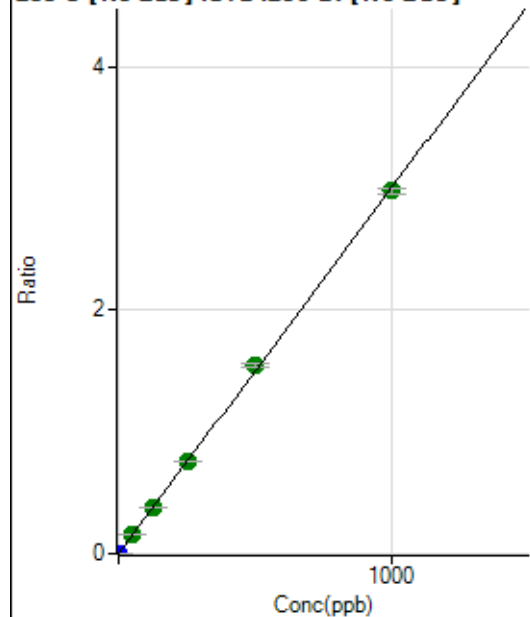
$$DL = 0.001742$$

$$BEC = 0.02208$$

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	19.44	0.0000	P	65.4
2	☐	1.000	0.871	32191.25	0.0026	P	1.2
3	☐	50.000	51.268	1908408.96	0.1540	A	2.2
4	☐	125.000	127.542	4749098.41	0.3832	A	1.2
5	☐	250.000	251.165	9578377.04	0.7546	A	0.8
6	☐	500.000	514.166	19178047.65	1.5447	A	1.7
7	☐	1000.000	992.245	37364454.31	2.9810	A	1.9
8	☐			6154.46	0.0006	P	7.1

$$y = 0.0030 * x + 1.5730E-006$$

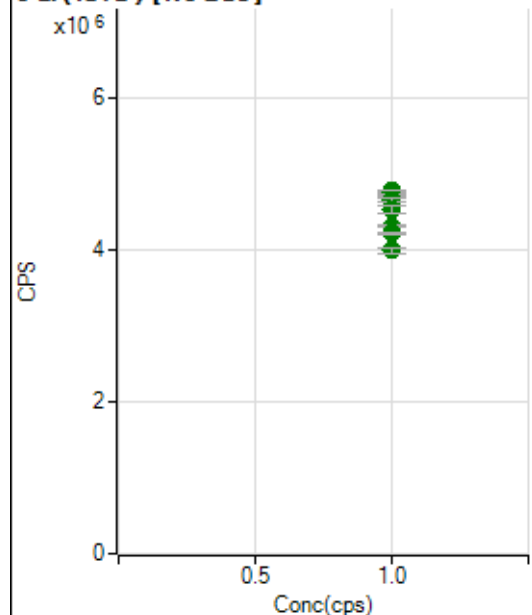
$$R = 0.9998$$

$$DL = 0.001027$$

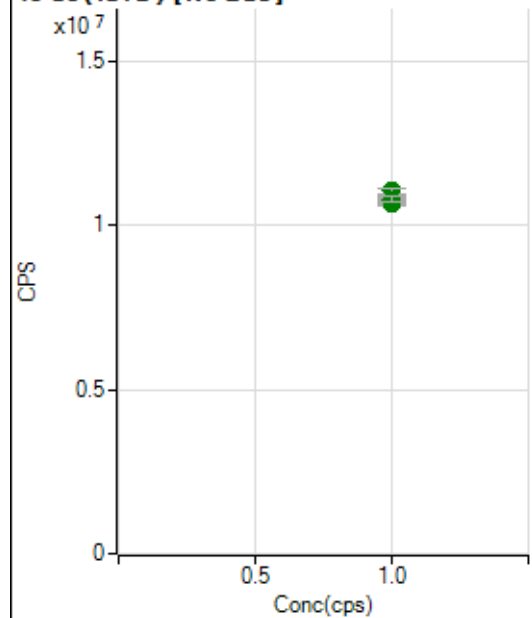
$$BEC = 0.0005236$$

Weight: <None>

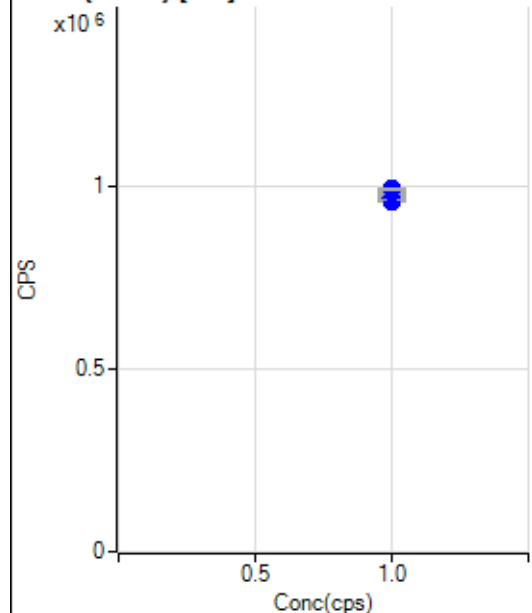
Min Conc: 0

6 Li (ISTD) [No Gas]

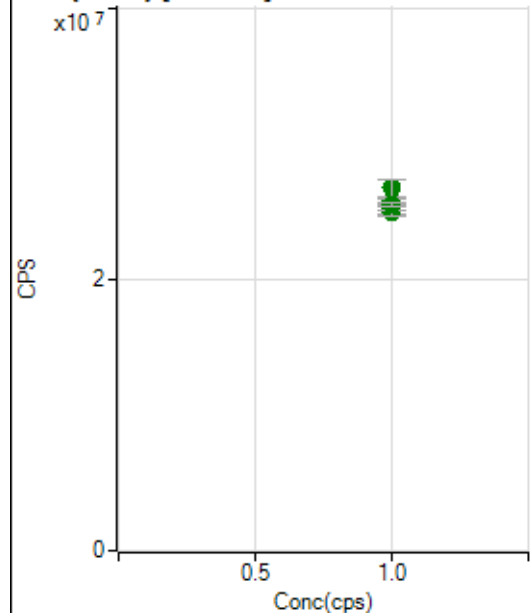
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4740362.78		A	1.6
2	☐	1.000		4773011.98		A	0.5
3	☐	1.000		4765672.85		A	1.0
4	☐	1.000		4654518.68		A	1.2
5	☐	1.000		4536150.42		A	2.1
6	☐	1.000		4312502.82		A	0.8
7	☐	1.000		4217008.97		A	0.9
8	☐	1.000		3986197.23		A	1.4

45 Sc (ISTD) [No Gas]

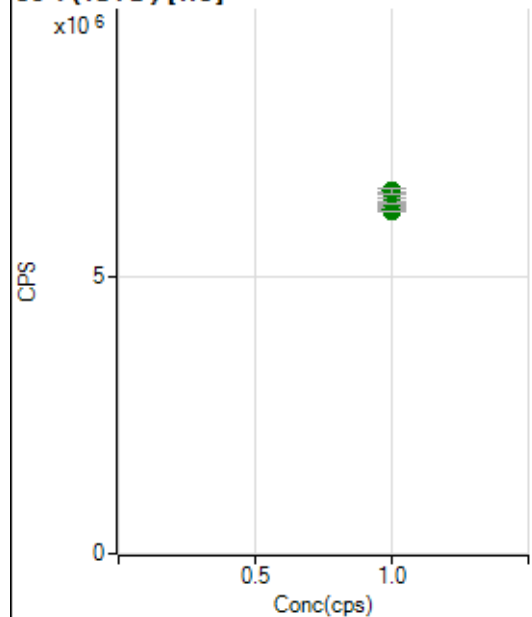
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10836778.31		A	0.8
2	☐	1.000		10901536.99		A	1.0
3	☐	1.000		10925547.89		A	0.4
4	☐	1.000		10746495.60		A	0.5
5	☐	1.000		10675426.02		A	1.1
6	☐	1.000		10705308.45		A	0.7
7	☐	1.000		11045227.47		A	1.9
8	☐	1.000		10794460.81		A	1.2

45 Sc (ISTD) [He]

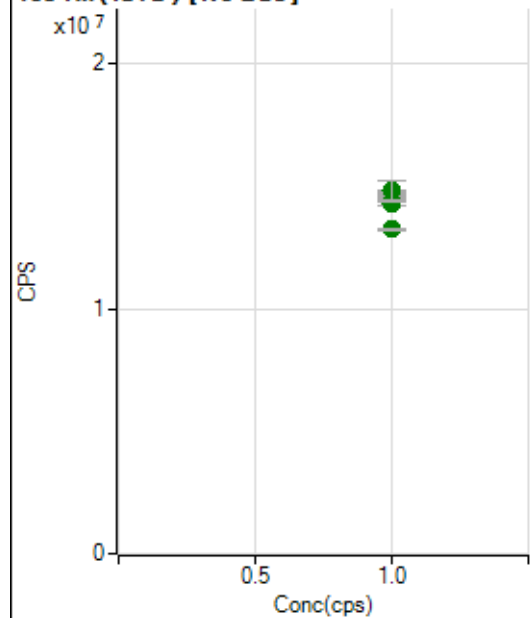
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		970376.71		P	0.5
2	☐	1.000		965428.31		P	0.3
3	☐	1.000		971768.69		P	0.2
4	☐	1.000		957558.46		P	0.6
5	☐	1.000		965413.23		P	0.5
6	☐	1.000		967509.70		P	1.1
7	☐	1.000		980431.70		P	0.4
8	☐	1.000		991243.81		P	0.2

89 Y (ISTD) [No Gas]

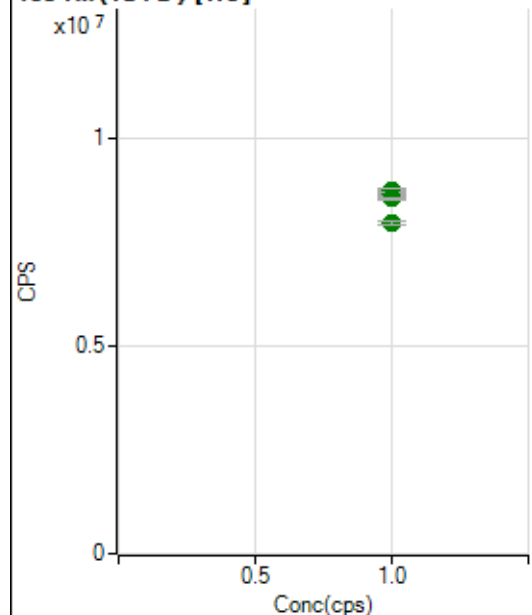
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		24942809.07		A	1.0
2	☐	1.000		25113366.29		A	0.4
3	☐	1.000		25275934.90		A	1.7
4	☐	1.000		24881361.30		A	1.8
5	☐	1.000		25448067.95		A	0.6
6	☐	1.000		25843396.28		A	1.2
7	☐	1.000		26747179.88		A	4.6
8	☐	1.000		25543010.73		A	0.8

89 Y (ISTD) [He]

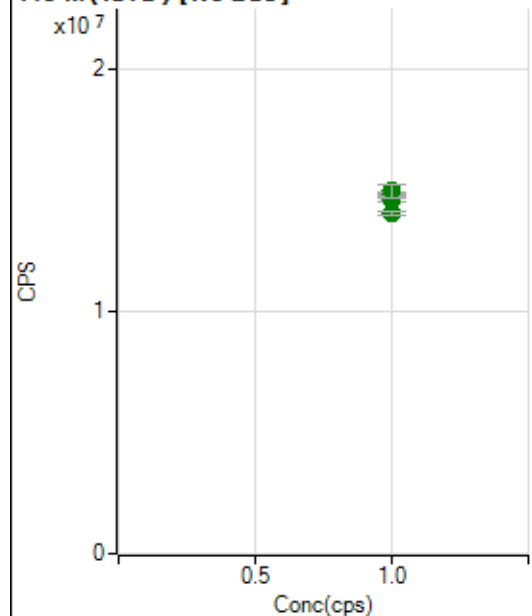
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6191869.01		A	0.5
2	☐	1.000		6231309.00		A	1.1
3	☐	1.000		6219881.23		A	0.3
4	☐	1.000		6208046.02		A	1.5
5	☐	1.000		6344108.03		A	0.6
6	☐	1.000		6503557.82		A	0.4
7	☐	1.000		6479343.86		A	1.5
8	☐	1.000		6547660.04		A	1.5

103 Rh (ISTD) [No Gas]

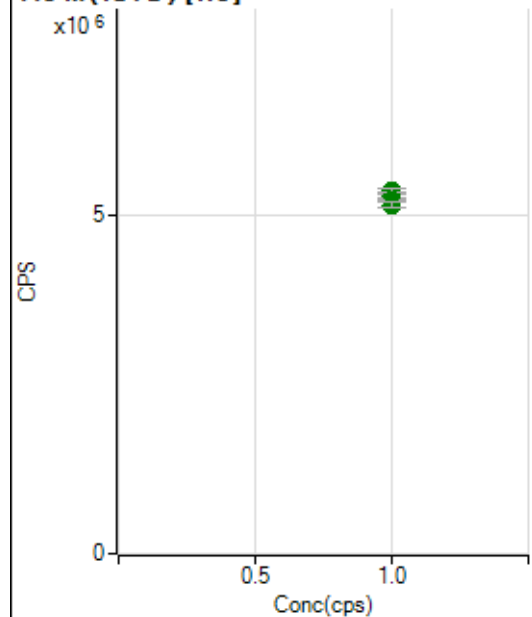
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14737185.48		A	0.5
2	☐	1.000		14765351.17		A	0.6
3	☐	1.000		14798125.33		A	0.8
4	☐	1.000		14276337.15		A	1.0
5	☐	1.000		14543284.23		A	0.8
6	☐	1.000		14372951.59		A	0.7
7	☐	1.000		14805254.50		A	5.3
8	☐	1.000		13246305.08		A	0.4

103 Rh (ISTD) [He]

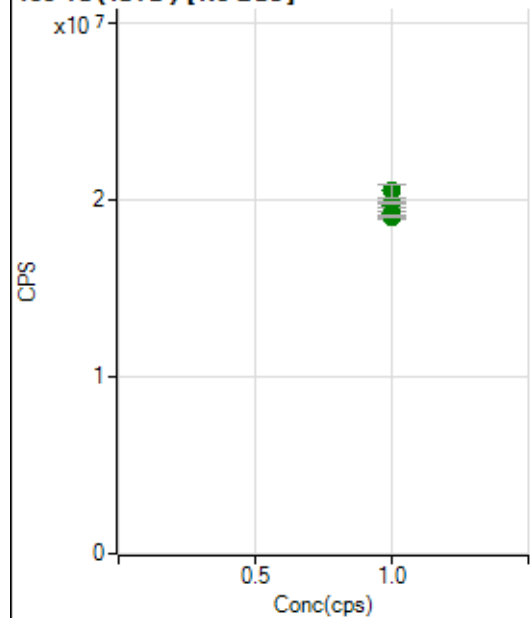
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8716338.34		A	0.8
2	☐	1.000		8669025.36		A	1.5
3	☐	1.000		8673200.98		A	1.0
4	☐	1.000		8586739.25		A	0.8
5	☐	1.000		8723128.20		A	0.2
6	☐	1.000		8746036.05		A	1.1
7	☐	1.000		8573691.68		A	0.5
8	☐	1.000		7955476.06		A	1.1

115 In (ISTD) [No Gas]

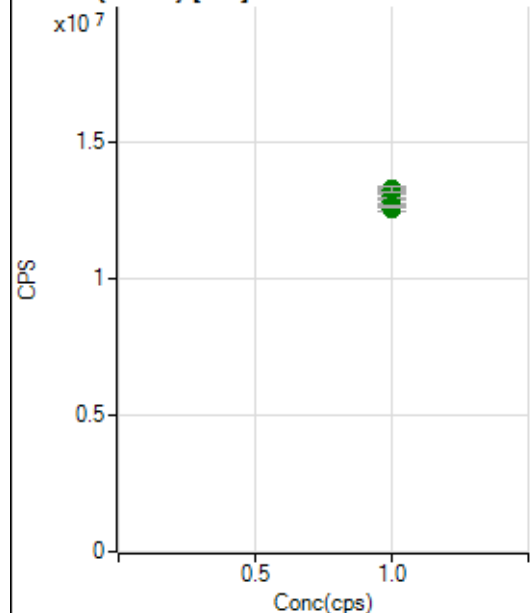
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14707564.89		A	0.7
2	☐	1.000		14734749.63		A	0.9
3	☐	1.000		14856598.02		A	0.4
4	☐	1.000		14615737.89		A	0.9
5	☐	1.000		14835965.61		A	1.5
6	☐	1.000		14716673.97		A	0.7
7	☐	1.000		14974012.11		A	3.6
8	☐	1.000		14043563.93		A	1.4

115 In (ISTD) [He]

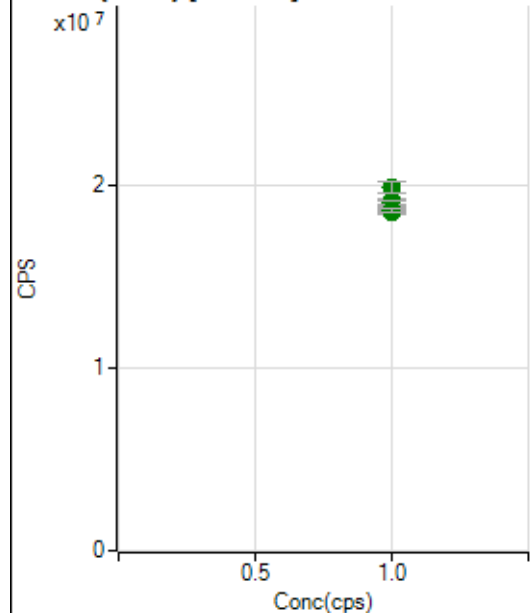
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5259035.30		A	1.3
2	☐	1.000		5250646.10		A	1.7
3	☐	1.000		5261484.09		A	0.9
4	☐	1.000		5200469.13		A	1.1
5	☐	1.000		5245921.82		A	0.2
6	☐	1.000		5345303.55		A	1.2
7	☐	1.000		5202850.50		A	0.5
8	☐	1.000		5131486.26		A	1.7

159 Tb (ISTD) [No Gas]

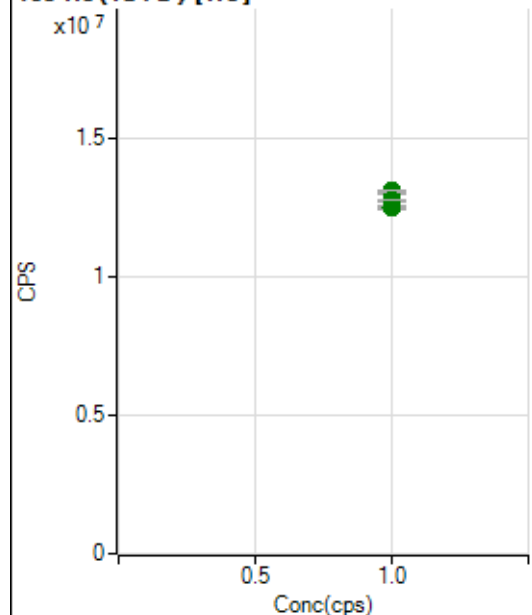
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18998249.30		A	0.7
2	☐	1.000		19131797.35		A	2.1
3	☐	1.000		19235809.71		A	0.8
4	☐	1.000		19259312.07		A	0.7
5	☐	1.000		19670759.98		A	0.7
6	☐	1.000		19876117.76		A	0.5
7	☐	1.000		20516394.69		A	3.6
8	☐	1.000		19121401.24		A	0.6

159 Tb (ISTD) [He]

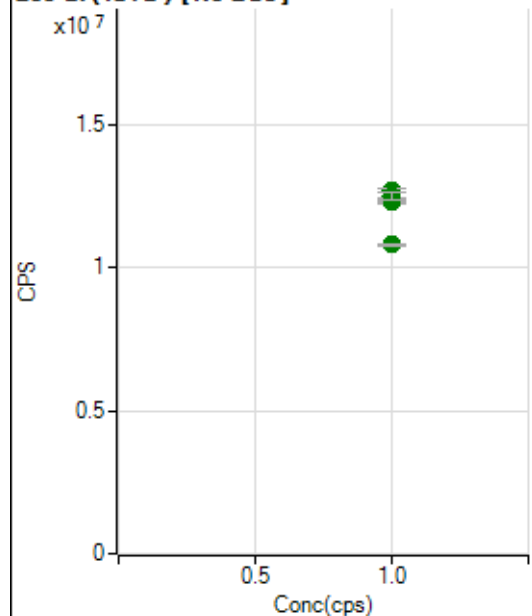
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12575163.42		A	1.0
2	☐	1.000		12696731.75		A	1.4
3	☐	1.000		12718538.15		A	1.2
4	☐	1.000		12821054.11		A	1.3
5	☐	1.000		13088632.72		A	1.1
6	☐	1.000		13315352.72		A	0.6
7	☐	1.000		13290085.08		A	1.5
8	☐	1.000		12662445.09		A	0.7

165 Ho (ISTD) [No Gas]

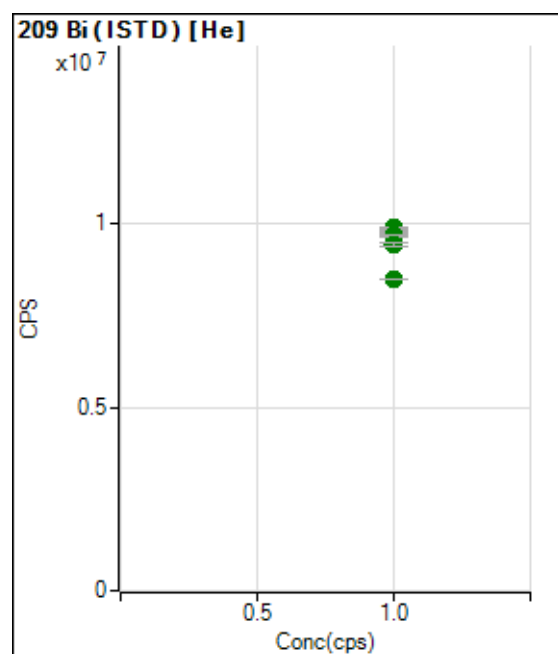
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18520384.17		A	0.3
2	☐	1.000		18634101.25		A	1.9
3	☐	1.000		18700599.30		A	1.6
4	☐	1.000		18730547.36		A	1.2
5	☐	1.000		19190397.77		A	0.5
6	☐	1.000		19066335.83		A	1.1
7	☐	1.000		19889933.60		A	3.3
8	☐	1.000		18684770.83		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12468263.01		A	0.4
2	☐	1.000		12491717.04		A	0.9
3	☐	1.000		12565643.01		A	0.4
4	☐	1.000		12724247.17		A	0.7
5	☐	1.000		12993175.50		A	0.3
6	☐	1.000		13098625.64		A	0.7
7	☐	1.000		13098091.75		A	0.3
8	☐	1.000		12780877.17		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12354696.49		A	0.1
2	☐	1.000		12296124.96		A	1.0
3	☐	1.000		12392179.26		A	1.1
4	☐	1.000		12394565.65		A	0.9
5	☐	1.000		12694320.79		A	1.2
6	☐	1.000		12416098.98		A	0.6
7	☐	1.000		12535851.34		A	2.0
8	☐	1.000		10800949.08		A	1.1



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9731857.56		A	1.0
2	☐	1.000		9732731.59		A	0.6
3	☐	1.000		9784116.52		A	0.7
4	☐	1.000		9777956.18		A	0.2
5	☐	1.000		9889883.19		A	0.5
6	☐	1.000		9683913.54		A	0.7
7	☐	1.000		9445033.61		A	1.1
8	☐	1.000		8501778.14		A	0.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7081422-MS.b
Acq. Date-Time 2022-08-14 18:14:43
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		7622	76216.62			0.823	5.000
24		124069	1240693.77			0.813	5.000
25		16459	164592.39			0.816	5.000
26		19237	192374.46			0.577	5.000
59		72654	726544.95			0.332	5.000
113		3796	37963.15			0.442	5.000
115		85502	855020.45			0.803	5.000
206		21823	218227.67			0.519	5.000
207		20277	202771.06			0.205	5.000
208		46826	468264.94			0.849	5.000
220		0	3.00			11.785	

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

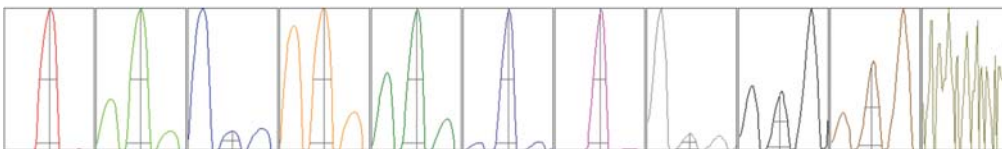
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7542	7718	7608	7617	7624
24	123146	125373	123589	123319	124921
25	16242	16574	16451	16463	16567
26	19061	19316	19236	19227	19347
59	72675	72506	72345	72971	72775
113	3779	3803	3778	3808	3814
115	85280	86339	85376	85965	84550
206	21809	21982	21872	21771	21679
207	20323	20281	20307	20257	20218
208	46523	47317	47201	46513	46578

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	14184.53	9.05	8.90 - 9.10	
24	223062.41	24.00	23.90 - 24.10	
25	29538.87	25.00	24.90 - 25.10	
26	33534.44	26.00	25.90 - 26.10	
59	147990.62	59.05	58.90 - 59.10	
113	8947.63	113.05	112.90 - 113.10	
115	202436.25	115.05	114.90 - 115.10	
206	47326.59	205.95	205.90 - 206.10	
207	41635.86	206.90	206.90 - 207.10	
208	98905.30	207.90	207.90 - 208.10	
220	0.00	220.40	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.769	0.900	
24	0.59	0.814	0.900	
25	0.59	0.744	0.900	
26	0.60	0.784	0.900	
59	0.50	0.742	0.900	
113	0.43	0.691	0.900	
115	0.43	0.679	0.900	
206	0.47	0.734	0.900	
207	0.48	0.769	0.900	
208	0.46	0.794	0.900	
220	0.45	0.450		

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	10.7 V	Deflect	15.0 V
Extract 2	-180.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 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	122	Axis Gain	1.0000	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.8 mm
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EM

Discriminator	3.2 mV	Analog HV	2196 V	Pulse HV	1414 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		24974	249736.37			0.586	
89		65651	656511.45			0.959	
205		124794	1247944.43			0.584	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25148	24887	24992	24776	25065
89	66113	66439	65455	64844	65405
205	123844	125725	124942	124328	125134

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	11.6 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-110 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	1.0000	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.8 mm
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EM

Discriminator	3.2 mV	Analog HV	2196 V	Pulse HV	1414 V
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