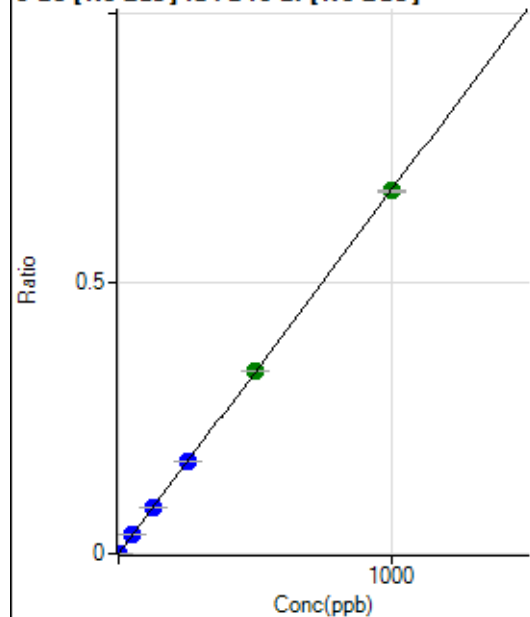


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7093022MS.b\
 Analysis File: P7093022MS.batch.bin
 DA Date-Time: 2022-09-30 18:11:58
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-09-30 13:37:07
2	005CALS.d	S02	2022-09-30 13:39:58
3	006CALS.d	S03	2022-09-30 13:42:51
4	007CALS.d	S04	2022-09-30 13:45:35
5	008CALS.d	S05	2022-09-30 13:48:20
6	009CALS.d	S06	2022-09-30 13:51:04
7	010CALS.d	S07	2022-09-30 13:53:51
8	011CALS.d	S08	2022-09-30 13:56:35

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.89	0.0000	P	22.3
2	☐	1.000	1.071	2648.03	0.0008	P	3.2
3	☐	50.000	51.155	119469.59	0.0344	P	1.8
4	☐	125.000	125.799	294507.04	0.0846	P	0.7
5	☐	250.000	252.104	591318.24	0.1694	P	0.6
6	☐	500.000	503.113	1162141.98	0.3380	A	0.4
7	☐	1000.000	997.760	2279734.19	0.6703	A	0.8
8	☐			770.03	0.0002	P	10.5

$$y = 6.7181\text{E-}004 * x + 3.7426\text{E-}005$$

$$R = 1.0000$$

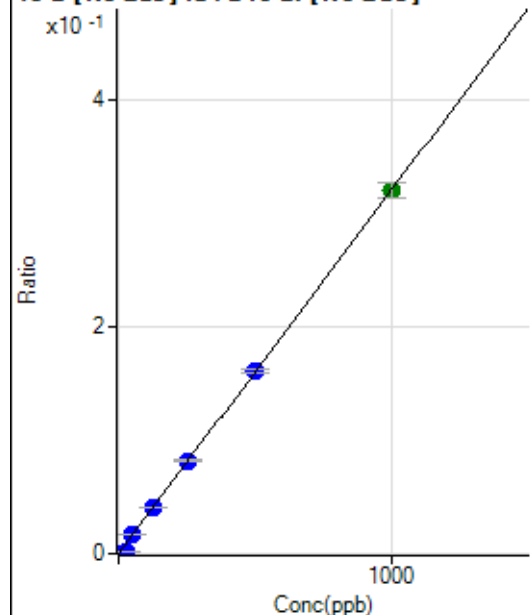
$$DL = 0.0372$$

$$BEC = 0.05571$$

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	566.69	0.0002	P	5.3
2	☐	25.000	6.334	7674.32	0.0022	P	3.4
3	☐	50.000	51.439	57785.99	0.0166	P	3.2
4	☐	125.000	126.415	141649.04	0.0407	P	2.6
5	☐	250.000	255.400	286176.37	0.0820	P	3.3
6	☐	500.000	502.455	553851.89	0.1611	P	2.3
7	☐	1000.000	997.640	1087170.24	0.3197	A	4.2
8	☐			26840.48	0.0082	P	8.5

$$y = 3.2027\text{E-}004 * x + 1.6449\text{E-}004$$

$$R = 0.9998$$

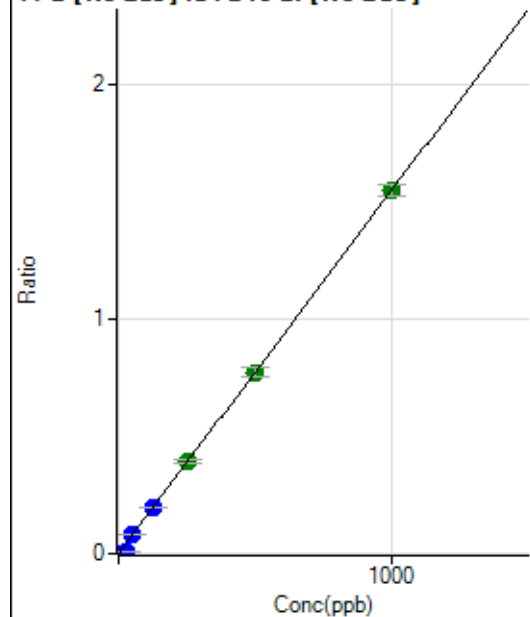
$$DL = 0.08179$$

$$BEC = 0.5136$$

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	2761.42	0.0008	P	8.4
2	☐	25.000	6.361	37223.09	0.0106	P	0.3
3	☐	50.000	51.374	278814.93	0.0803	P	3.3
4	☐	125.000	126.317	683692.06	0.1962	P	2.8
5	☐	250.000	254.004	1374852.09	0.3937	A	4.3
6	☐	500.000	499.780	2661266.16	0.7739	A	4.5
7	☐	1000.000	999.341	5259886.79	1.5467	A	3.3
8	☐			126576.99	0.0387	P	11.9

$$y = 0.0015 * x + 8.0143E-004$$

$$R = 0.9998$$

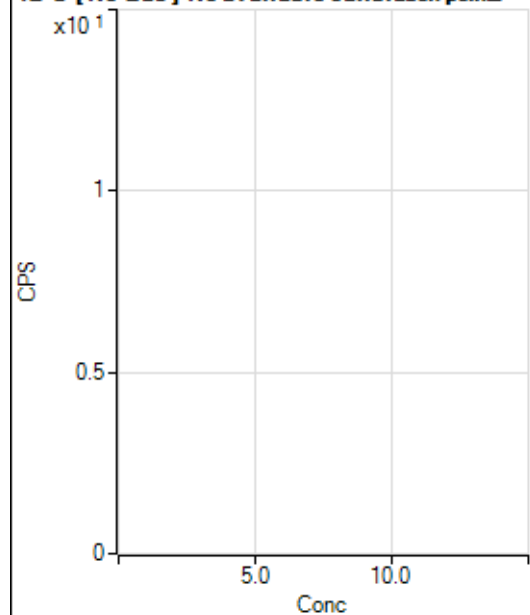
$$DL = 0.131$$

$$BEC = 0.5181$$

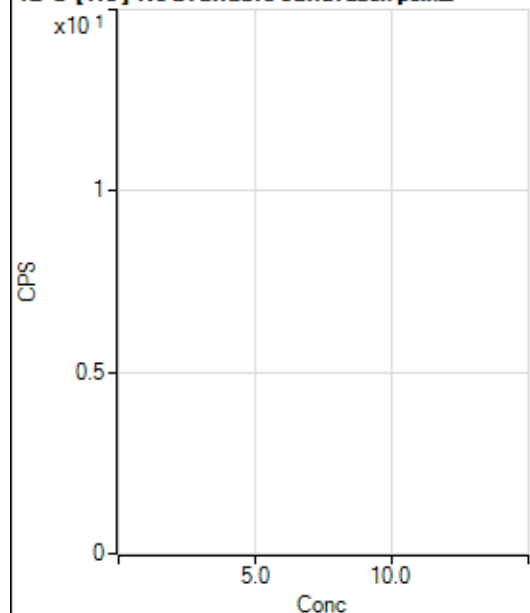
Weight: <None>

Min Conc: 0

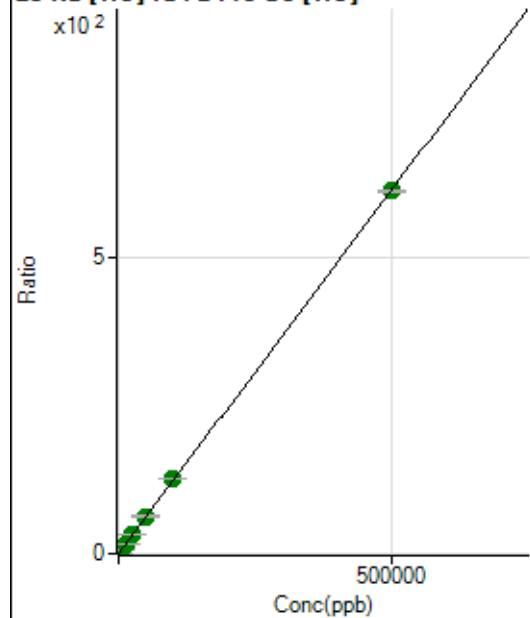
12 C [No Gas] No available calibration points



	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	12516.37	0.0205	P	3.3
2	☐	500.000	524.401	410118.30	0.6630	P	0.4
3	☐	5000.000	5336.526	4051315.11	6.5592	A	0.3
4	☐	12500.000	13146.004	9874387.72	16.1280	A	0.5
5	☐	25000.000	26699.757	19752742.57	32.7351	A	0.3
6	☐	50000.000	50919.250	39367503.66	62.4106	A	2.7
7	☐	100000.00	103678.44	78448215.64	127.0552	A	0.3
8	☐	500000.00	499067.85	382696845.5	611.5164	A	0.9

$$y = 0.0012 * x + 0.0205$$

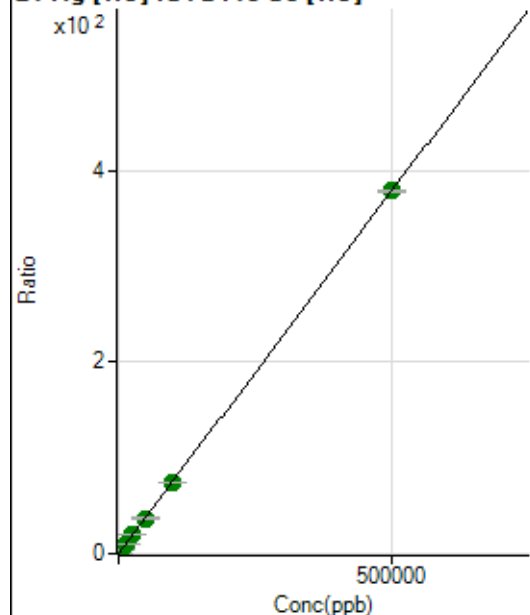
$$R = 1.0000$$

$$DL = 1.651$$

$$BEC = 16.73$$

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	275.93	0.0005	P	20.4
2	☐	500.000	529.981	248657.85	0.4020	P	0.4
3	☐	5000.000	5115.242	2393905.72	3.8761	A	1.2
4	☐	12500.000	12609.026	5849308.52	9.5540	A	0.7
5	☐	25000.000	25456.675	11638818.89	19.2883	A	0.4
6	☐	50000.000	48487.734	23173984.54	36.7383	A	2.6
7	☐	100000.00	98297.532	45985069.08	74.4778	A	0.5
8	☐	500000.00	500464.97	237310673.8	379.1891	A	0.8

$$y = 7.5767E-004 * x + 4.5222E-004$$

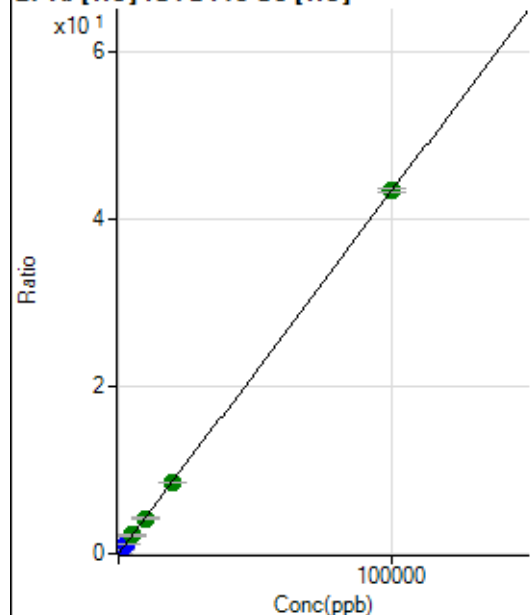
$$R = 1.0000$$

$$DL = 0.3653$$

$$BEC = 0.5969$$

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	216.67	0.0004	P	9.3
2	☐	20.000	19.767	5528.89	0.0089	P	1.9
3	☐	1000.000	1022.940	274564.92	0.4446	P	0.9
4	☐	2500.000	2502.001	665385.76	1.0868	P	0.9
5	☐	5000.000	5061.808	1326494.36	2.1984	A	1.3
6	☐	10000.000	9740.088	2667871.70	4.2298	A	3.3
7	☐	20000.000	19778.356	5302996.01	8.5888	A	0.4
8	☐	100000.00	100066.95	27193527.46	43.4529	A	1.0

$$y = 4.3423E-004 * x + 3.5489E-004$$

$$R = 1.0000$$

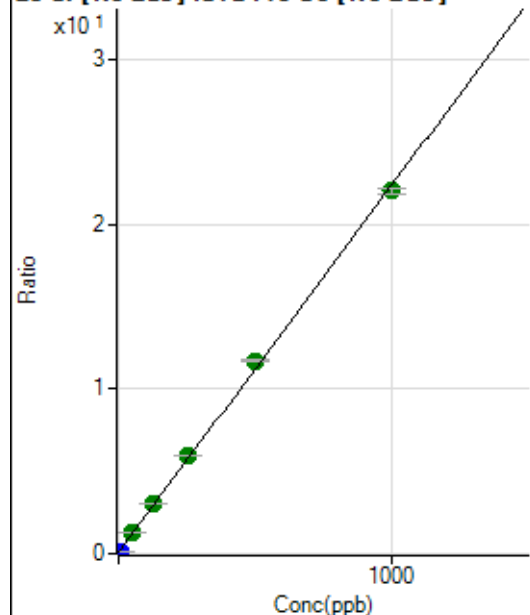
$$DL = 0.2288$$

$$BEC = 0.8173$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	580721.17	0.0854	P	0.8
2	☐	10.000	0.493	653313.38	0.0964	P	2.0
3	☐	50.000	52.846	8615949.93	1.2623	A	0.4
4	☐	125.000	131.643	20078046.63	3.0170	A	0.7
5	☐	250.000	262.453	39174121.71	5.9301	A	0.7
6	☐	500.000	521.488	77597528.82	11.6987	A	0.6
7	☐	1000.000	985.265	149778935.2	22.0269	A	1.7
8	☐			3080206.17	0.4716	A	13.0

$$y = 0.0223 * x + 0.0854$$

$$R = 0.9994$$

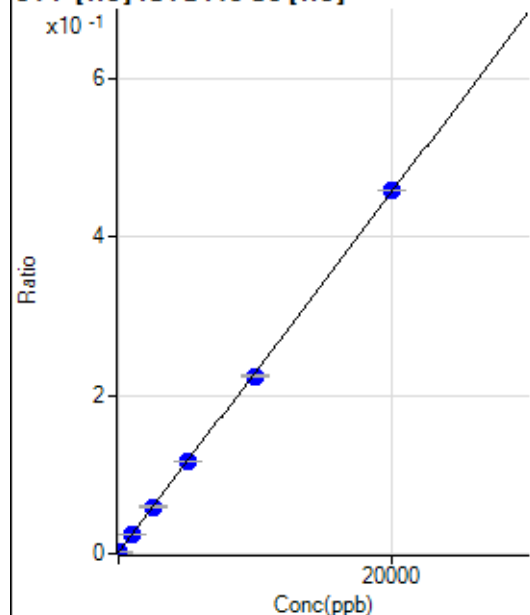
$$DL = 0.09575$$

$$BEC = 3.835$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-9.345	669.48	0.0011	P	15.6
2	☐	0.000	9.345	941.72	0.0015	P	13.0
3	☐	1000.000	1013.679	15063.31	0.0244	P	1.1
4	☐	2500.000	2551.310	36365.86	0.0594	P	1.0
5	☐	5000.000	5095.286	70791.89	0.1173	P	0.8
6	☐	10000.000	9801.748	141611.66	0.2245	P	2.0
7	☐	20000.000	20068.207	282928.01	0.4582	P	0.1
8	☐			952.83	0.0015	P	8.1

$$y = 2.2768E-005 * x + 0.0013$$

$$R = 0.9999$$

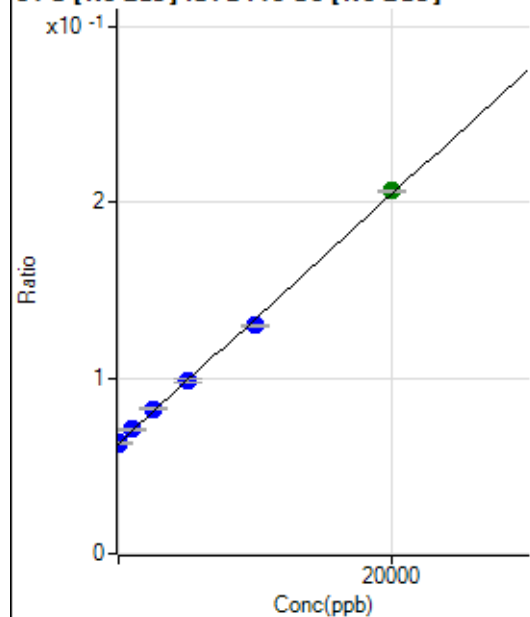
$$DL = 24.35$$

$$BEC = 57.52$$

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	-22.435	426929.53	0.0628	P	0.6
2	☐	0.000	22.435	427743.85	0.0631	P	1.8
3	☐	1000.000	1136.066	484647.72	0.0710	P	1.3
4	☐	2500.000	2742.375	548235.28	0.0824	P	1.6
5	☐	5000.000	4947.137	647466.73	0.0980	P	2.2
6	☐	10000.000	9436.022	861478.32	0.1299	P	1.1
7	☐	20000.000	20258.104	1405519.61	0.2067	A	0.8
8	☐			366711.53	0.0562	P	3.9

$$y = 7.0948\text{E-}006 * x + 0.0629$$

$$R = 0.9993$$

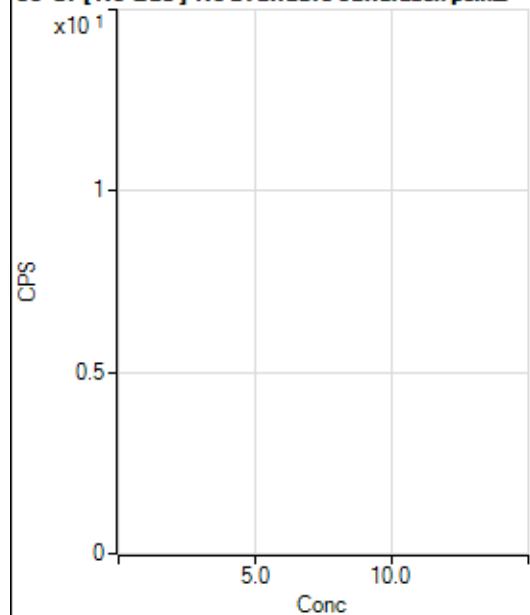
$$DL = 313.8$$

$$BEC = 8873$$

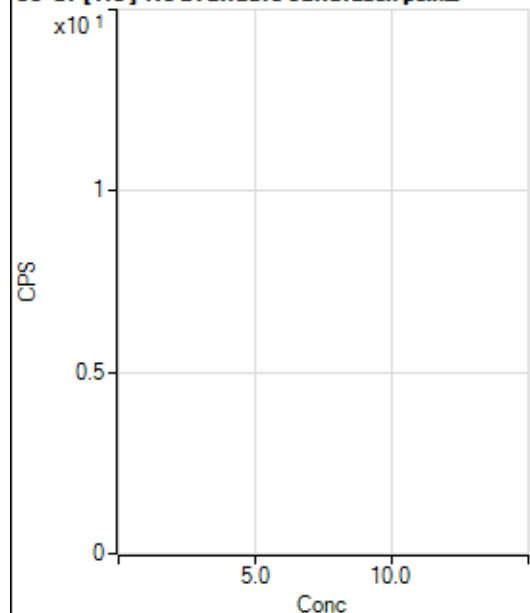
Weight: <None>

Min Conc: 0

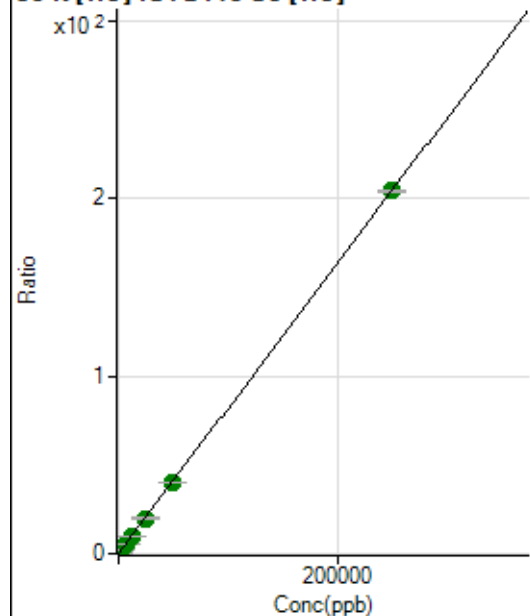
35 Cl [No Gas] No available calibration points



	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	85682.87	0.1403	P	0.3
2	☐	500.000	531.497	354929.21	0.5738	P	0.3
3	☐	2500.000	2493.618	1342766.12	2.1741	A	0.8
4	☐	6250.000	6175.295	3169521.36	5.1768	A	0.1
5	☐	12500.000	12379.881	6177281.86	10.2372	A	0.3
6	☐	25000.000	24065.201	12468852.62	19.7677	A	2.8
7	☐	50000.000	48992.157	24757800.38	40.0978	A	0.2
8	☐	250000.00	250302.92	127841225.0	204.2848	A	0.6

$$y = 8.1559\text{E-}004 * x + 0.1403$$

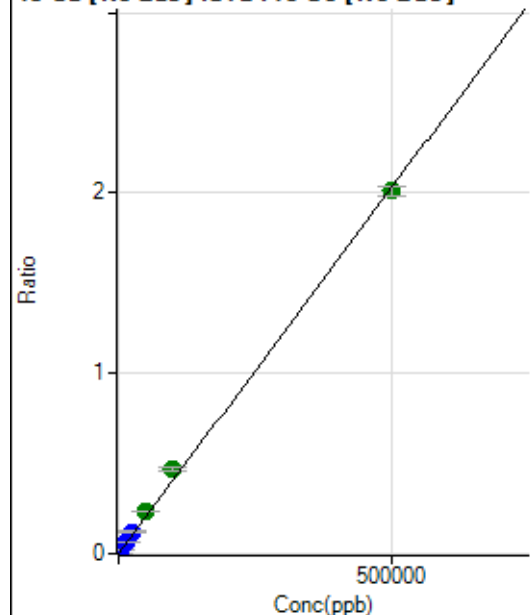
$$R = 1.0000$$

$$DL = 1.738$$

$$BEC = 172.1$$

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	363.90	0.0001	P	6.7
2	☐	500.000	529.132	14915.97	0.0022	P	2.7
3	☐	5000.000	6014.924	166886.26	0.0244	P	1.3
4	☐	12500.000	14914.954	402886.98	0.0605	P	0.6
5	☐	25000.000	30131.993	807605.29	0.1223	P	0.7
6	☐	50000.000	58375.161	1570767.26	0.2368	A	0.6
7	☐	100000.00	115340.11	3181048.83	0.4679	A	3.1
8	☐	500000.00	495767.30	13127193.09	2.0108	A	2.7

$$y = 4.0558\text{E-}006 * x + 5.3542\text{E-}005$$

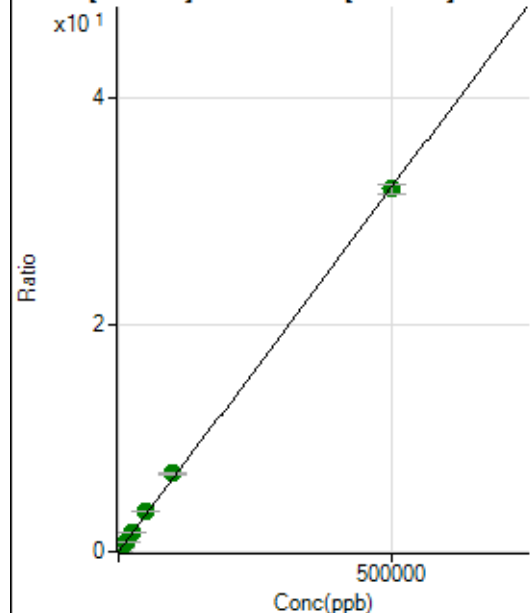
$$R = 0.9994$$

$$DL = 2.659$$

$$BEC = 13.2$$

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	11863.31	0.0017	P	3.0
2	☐	500.000	537.385	245457.01	0.0362	P	0.4
3	☐	5000.000	5476.919	2409371.19	0.3530	A	1.7
4	☐	12500.000	13428.222	5742472.61	0.8629	A	0.6
5	☐	25000.000	27291.004	11571771.70	1.7519	A	0.5
6	☐	50000.000	54488.917	23189413.19	3.4961	A	0.5
7	☐	100000.00	107175.19	46747962.85	6.8748	A	1.7
8	☐	500000.00	497973.50	208490801.8	31.9363	A	2.8

$$y = 6.4129\text{E-}005 * x + 0.0017$$

$$R = 0.9999$$

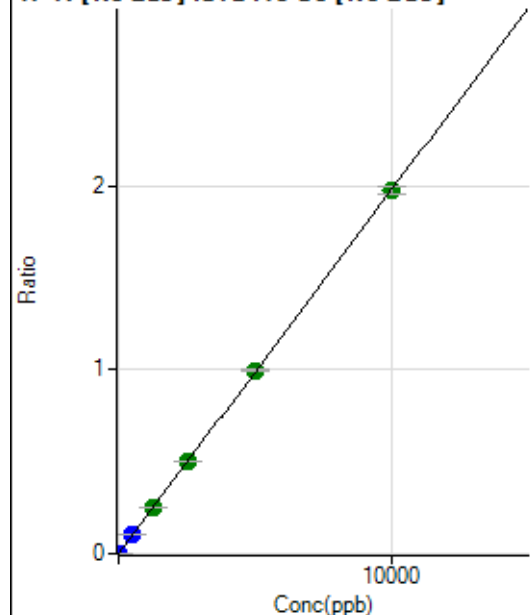
$$DL = 2.477$$

$$BEC = 27.21$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	180.56	0.0000	P	9.8
2	☐	5.000	5.360	7368.64	0.0011	P	3.3
3	☐	500.000	507.788	686085.59	0.1005	P	0.6
4	☐	1250.000	1263.146	1663595.14	0.2500	A	0.1
5	☐	2500.000	2527.786	3304586.62	0.5003	A	0.6
6	☐	5000.000	5031.735	6604740.73	0.9958	A	0.8
7	☐	10000.000	9975.153	13423093.10	1.9741	A	2.0
8	☐			2147.43	0.0003	P	1.5

$$y = 1.9790E-004 * x + 2.6558E-005$$

$$R = 1.0000$$

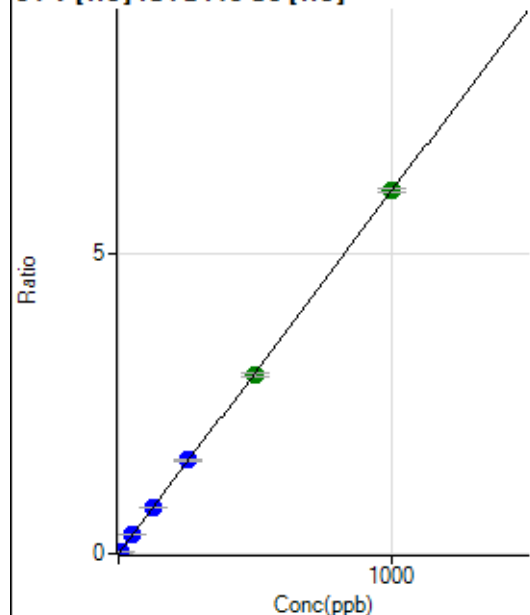
$$DL = 0.0394$$

$$BEC = 0.1342$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32.22	0.0001	P	5.5
2	☐	5.000	5.255	19711.83	0.0319	P	1.7
3	☐	50.000	51.390	192172.58	0.3112	P	1.1
4	☐	125.000	126.446	468692.10	0.7655	P	0.4
5	☐	250.000	257.272	939837.07	1.5575	P	0.1
6	☐	500.000	494.615	1888869.64	2.9944	A	2.4
7	☐	1000.000	1000.623	3740069.42	6.0576	A	1.2
8	☐			2679.15	0.0043	P	0.8

$$y = 0.0061 * x + 5.2760E-005$$

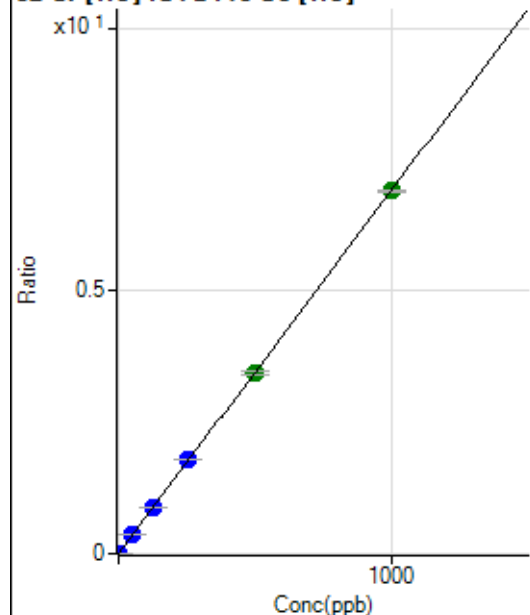
$$R = 1.0000$$

$$DL = 0.001434$$

$$BEC = 0.008715$$

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	1466.75	0.0024	P	6.2
2	☐	2.000	2.102	10475.95	0.0169	P	0.9
3	☐	50.000	52.127	224120.39	0.3629	P	0.5
4	☐	125.000	128.744	546542.49	0.8927	P	0.6
5	☐	250.000	261.031	1090651.81	1.8075	P	0.3
6	☐	500.000	496.536	2167555.89	3.4360	A	2.5
7	☐	1000.000	998.400	4264345.94	6.9064	A	0.7
8	☐			13492.79	0.0216	P	1.0

$$y = 0.0069 * x + 0.0024$$

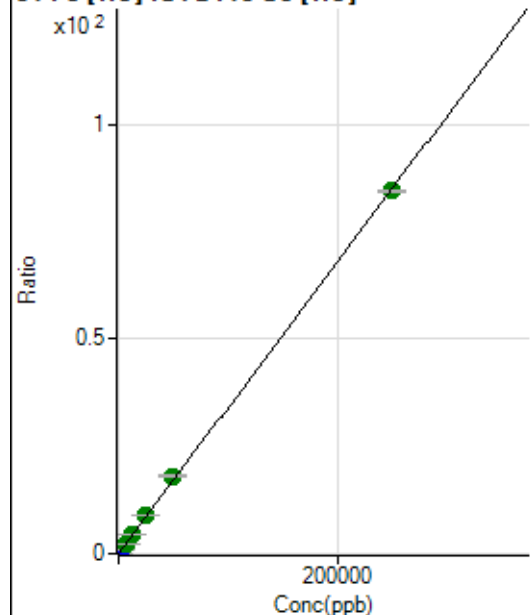
$$R = 0.9999$$

$$DL = 0.06512$$

$$BEC = 0.3475$$

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	1768.60	0.0029	P	12.6
2	☐	50.000	57.823	13937.41	0.0225	P	4.0
3	☐	2500.000	2866.729	603015.91	0.9764	P	1.0
4	☐	6250.000	6794.999	1414468.39	2.3103	A	1.8
5	☐	12500.000	13774.862	2824288.02	4.6805	A	0.2
6	☐	25000.000	26378.309	5651921.20	8.9604	A	2.9
7	☐	50000.000	53384.666	11195138.08	18.1311	A	0.8
8	☐	250000.00	249104.19	52939563.53	84.5930	A	0.3

$$y = 3.3958E-004 * x + 0.0029$$

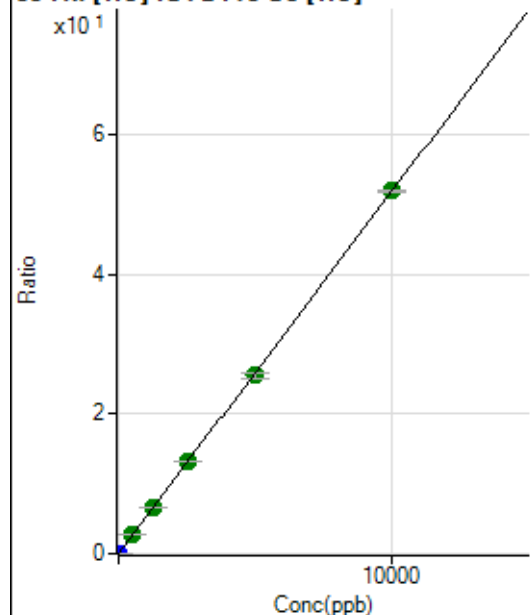
$$R = 0.9999$$

$$DL = 3.217$$

$$BEC = 8.53$$

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	932.26	0.0015	P	6.3
2	☐	1.000	1.127	4554.06	0.0074	P	3.1
3	☐	500.000	513.374	1642878.40	2.6599	A	0.7
4	☐	1250.000	1265.507	4013139.63	6.5546	A	0.5
5	☐	2500.000	2547.718	7961600.92	13.1942	A	0.2
6	☐	5000.000	4924.586	16086329.21	25.5023	A	2.8
7	☐	10000.000	10023.171	32047959.80	51.9040	A	0.4
8	☐			22010.61	0.0352	P	0.8

$$y = 0.0052 * x + 0.0015$$

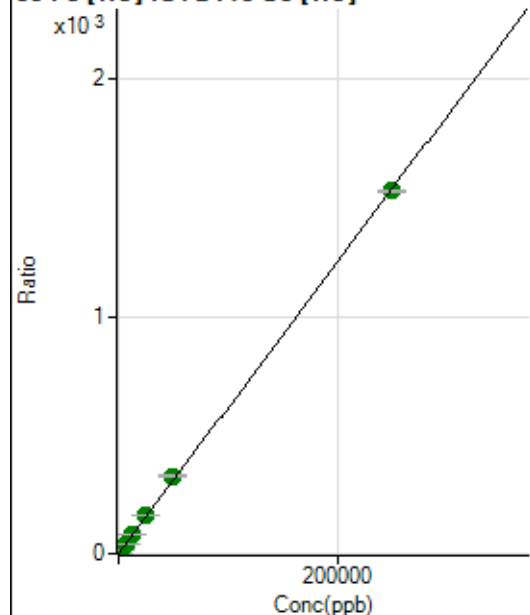
$$R = 0.9999$$

$$DL = 0.05598$$

$$BEC = 0.2949$$

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	13971.52	0.0229	P	1.2
2	☐	50.000	56.693	229227.93	0.3706	P	0.7
3	☐	2500.000	2726.043	10340299.65	16.7422	A	0.9
4	☐	6250.000	6755.724	25382231.59	41.4571	A	0.4
5	☐	12500.000	13570.659	50236533.99	83.2544	A	0.5
6	☐	25000.000	26291.730	101728973.5	161.2752	A	2.8
7	☐	50000.000	53415.604	202295193.4	327.6313	A	0.5
8	☐	250000.00	249119.26	956196354.7	1,527.920	A	0.2

$$y = 0.0061 * x + 0.0229$$

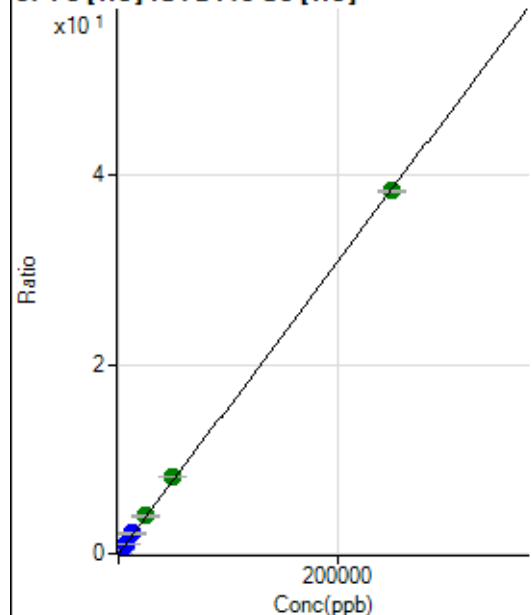
$$R = 0.9999$$

$$DL = 0.1399$$

$$BEC = 3.731$$

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	925.97	0.0015	P	1.1
2	☐	50.000	58.412	6497.80	0.0105	P	2.2
3	☐	2500.000	2797.611	266803.28	0.4320	P	1.1
4	☐	6250.000	6904.918	651432.75	1.0640	P	0.7
5	☐	12500.000	13902.805	1291785.10	2.1408	P	0.6
6	☐	25000.000	25892.185	2514058.42	3.9857	A	2.8
7	☐	50000.000	52899.294	5026696.99	8.1414	A	0.8
8	☐	250000.00	249241.43	24002646.60	38.3536	A	0.5

$$y = 1.5388\text{E-}004 * x + 0.0015$$

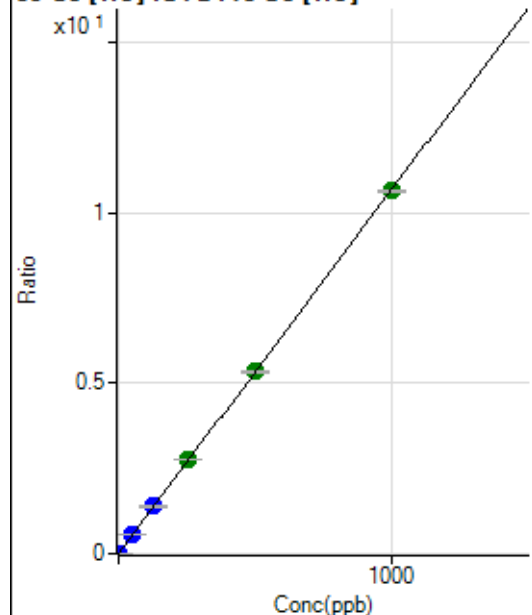
R = 0.9999

DL = 0.3378

BEC = 9.856

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	686.69	0.0011	P	3.6
2	☐	1.000	1.097	7939.93	0.0128	P	1.8
3	☐	50.000	52.417	346165.03	0.5605	P	1.2
4	☐	125.000	129.703	848127.24	1.3853	P	0.5
5	☐	250.000	259.938	1674548.22	2.7751	A	0.8
6	☐	500.000	499.603	3364341.41	5.3327	A	1.6
7	☐	1000.000	997.005	6569981.29	10.6409	A	0.6
8	☐			27662.16	0.0442	P	0.5

$$y = 0.0107 * x + 0.0011$$

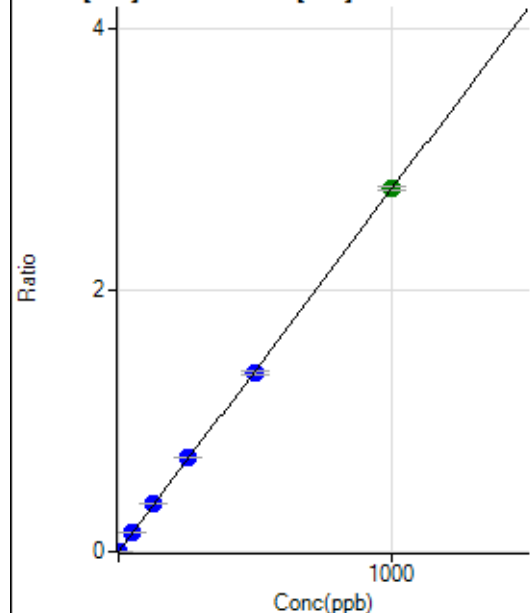
R = 0.9999

DL = 0.01148

BEC = 0.1054

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	201.11	0.0003	P	13.6
2	☐	1.000	1.139	2157.96	0.0035	P	4.5
3	☐	50.000	53.064	91104.49	0.1475	P	1.3
4	☐	125.000	130.441	221722.44	0.3621	P	0.5
5	☐	250.000	258.068	432130.63	0.7161	P	0.5
6	☐	500.000	492.030	861154.04	1.3651	P	2.0
7	☐	1000.000	1001.135	1714741.28	2.7772	A	1.0
8	☐			7487.49	0.0120	P	0.3

$$y = 0.0028 * x + 3.2945E-004$$

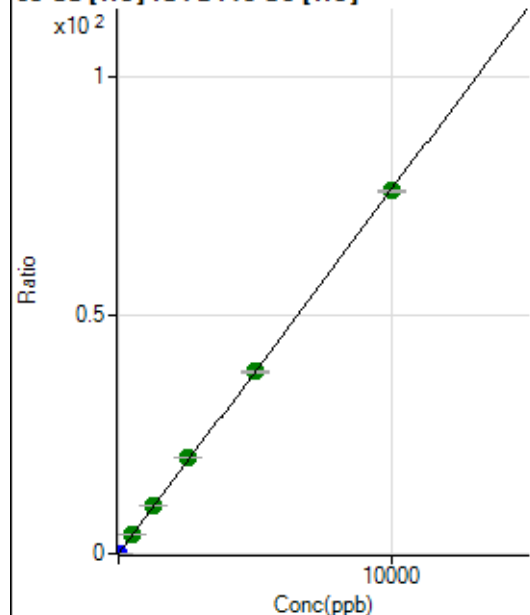
$$R = 0.9999$$

$$DL = 0.04851$$

$$BEC = 0.1188$$

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	2632.48	0.0043	P	4.7
2	☐	2.000	2.185	12997.92	0.0210	P	0.9
3	☐	500.000	532.362	2516089.46	4.0741	A	1.4
4	☐	1250.000	1310.369	6135733.73	10.0218	A	0.5
5	☐	2500.000	2632.235	12144864.68	20.1271	A	0.7
6	☐	5000.000	4995.198	24093715.20	38.1914	A	1.8
7	☐	10000.000	9960.178	47016037.63	76.1475	A	0.2
8	☐			12336.29	0.0197	P	6.4

$$y = 0.0076 * x + 0.0043$$

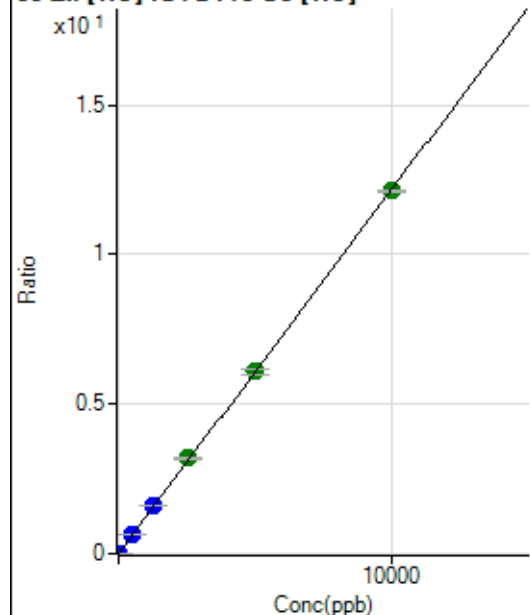
$$R = 0.9999$$

$$DL = 0.07986$$

$$BEC = 0.564$$

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	1141.17	0.0019	P	8.9
2	☐	2.000	2.197	2810.30	0.0045	P	3.2
3	☐	500.000	526.549	396922.66	0.6427	P	0.9
4	☐	1250.000	1302.831	971882.19	1.5874	P	0.5
5	☐	2500.000	2616.909	1922843.10	3.1866	A	1.0
6	☐	5000.000	4993.524	3834266.92	6.0789	A	3.1
7	☐	10000.000	9966.079	7489767.04	12.1305	A	0.2
8	☐			8206.76	0.0131	P	2.8

$$y = 0.0012 * x + 0.0019$$

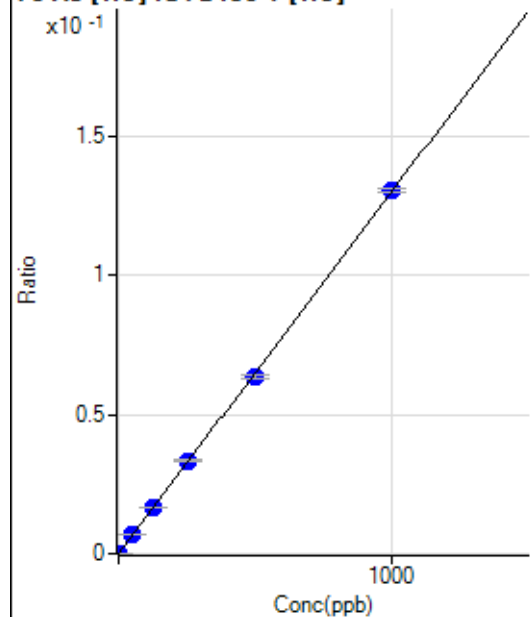
$$R = 0.9999$$

$$DL = 0.412$$

$$BEC = 1.536$$

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	9.88	0.0000	P	29.1
2	☐	1.000	1.050	534.58	0.0001	P	10.6
3	☐	50.000	51.695	25902.15	0.0067	P	1.3
4	☐	125.000	127.549	63234.06	0.0166	P	0.3
5	☐	250.000	256.128	125753.40	0.0333	P	1.4
6	☐	500.000	489.409	254175.64	0.0636	P	1.3
7	☐	1000.000	1003.360	506267.49	0.1303	P	0.9
8	☐			379.02	0.0001	P	2.6

$$y = 1.2991E-004 * x + 2.5995E-006$$

$$R = 0.9999$$

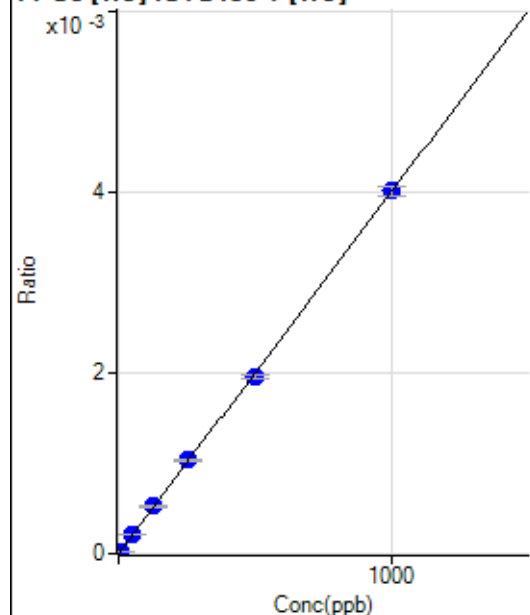
$$DL = 0.01749$$

$$BEC = 0.02001$$

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	0.00	0.0000	P	
2	☐	5.000	5.850	90.00	0.0000	P	19.5
3	☐	50.000	52.528	810.03	0.0002	P	4.2
4	☐	125.000	130.536	1992.37	0.0005	P	7.1
5	☐	250.000	259.342	3919.44	0.0010	P	2.4
6	☐	500.000	489.509	7828.80	0.0020	P	2.0
7	☐	1000.000	1002.087	15564.94	0.0040	P	2.4
8	☐			7.78	0.0000	P	88.8

$$y = 3.9993\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

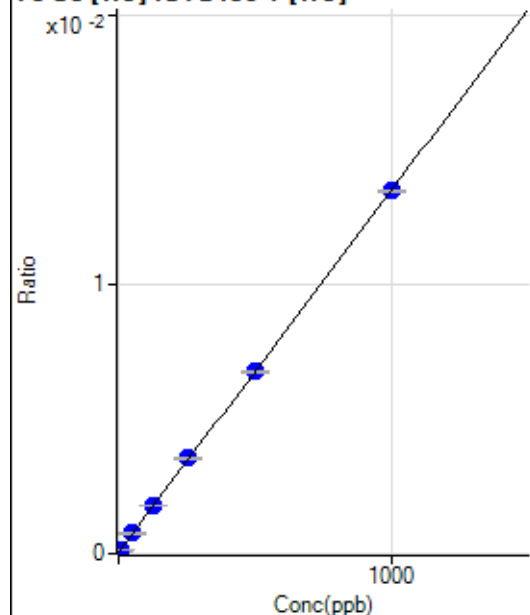
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	210.50	0.0001	P	3.4
2	☐	5.000	5.541	499.39	0.0001	P	5.8
3	☐	50.000	51.923	2904.00	0.0008	P	4.4
4	☐	125.000	128.999	6826.91	0.0018	P	0.6
5	☐	250.000	259.021	13365.92	0.0035	P	2.1
6	☐	500.000	497.985	26980.67	0.0067	P	0.9
7	☐	1000.000	998.154	52323.84	0.0135	P	0.9
8	☐			291.98	0.0001	P	2.8

$$y = 1.3441\text{E-}005 * x + 5.5347\text{E-}005$$

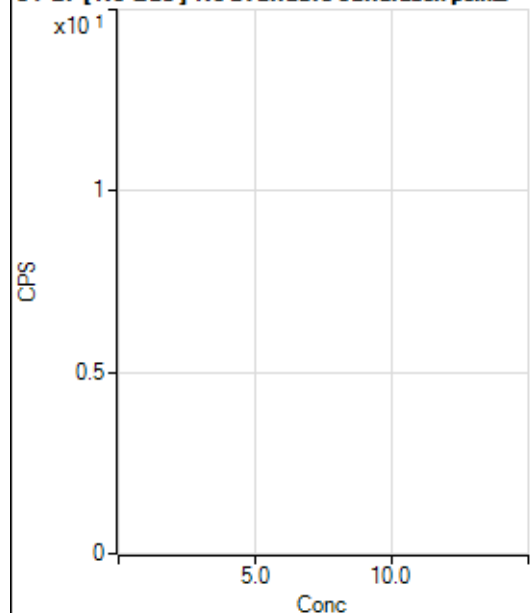
$$R = 1.0000$$

$$DL = 0.4236$$

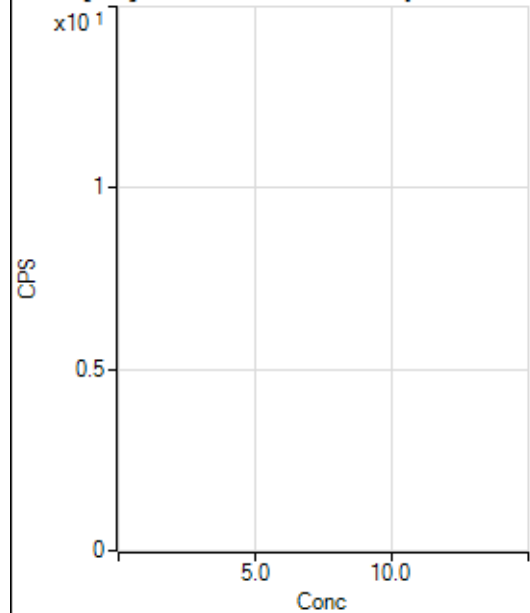
$$BEC = 4.118$$

Weight: <None>

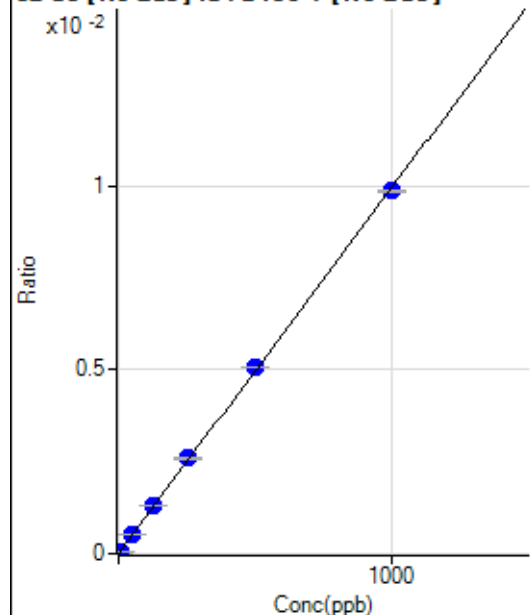
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12027.45		P	1.4
2	☐			12185.87		P	4.7
3	☐			11827.25		P	2.6
4	☐			12035.84		P	1.3
5	☐			11460.34		P	4.6
6	☐			12322.06		P	3.9
7	☐			12914.33		P	2.4
8	☐			12844.85		P	2.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.73		P	48.2
2	☐			83.42		P	54.1
3	☐			63.40		P	36.5
4	☐			76.74		P	30.1
5	☐			70.07		P	28.6
6	☐			73.41		P	56.8
7	☐			73.41		P	43.8
8	☐			86.75		P	24.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	79.92	0.0000	P	31.3
2	☐	5.000	5.182	839.01	0.0001	P	6.4
3	☐	50.000	51.622	7677.88	0.0005	P	1.5
4	☐	125.000	131.029	19127.44	0.0013	P	0.4
5	☐	250.000	261.098	38047.47	0.0026	P	1.1
6	☐	500.000	508.667	74956.19	0.0051	P	0.4
7	☐	1000.000	992.056	146831.91	0.0099	P	0.8
8	☐			175.43	0.0000	P	2.8

$$y = 9.9281E-006 * x + 5.3968E-006$$

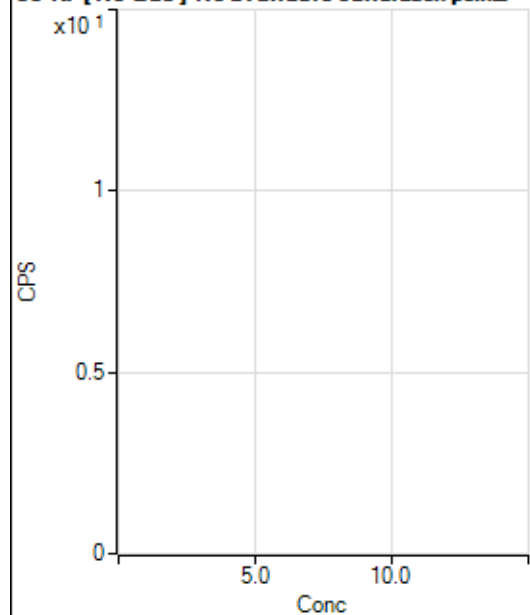
$$R = 0.9999$$

$$DL = 0.51$$

$$BEC = 0.5436$$

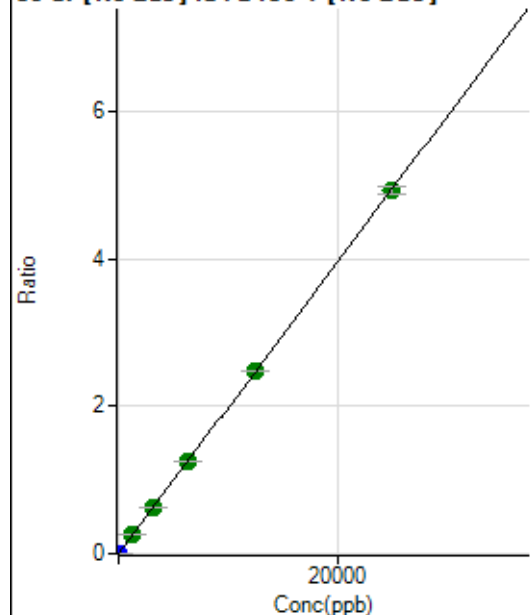
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			337.79		P	4.7
2	☐			354.45		P	10.6
3	☐			392.23		P	8.0
4	☐			383.34		P	11.8
5	☐			376.68		P	6.4
6	☐			346.68		P	10.0
7	☐			445.57		P	4.9
8	☐			378.90		P	4.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	655.59	0.0000	P	5.0
2	☐	1.000	0.945	3406.03	0.0002	P	7.0
3	☐	1250.000	1269.564	3713943.96	0.2505	A	0.7
4	☐	3125.000	3142.280	9079035.19	0.6201	A	0.5
5	☐	6250.000	6328.482	18291134.61	1.2487	A	0.9
6	☐	12500.000	12586.574	36822427.21	2.4836	A	0.3
7	☐	25000.000	24933.954	73305684.97	4.9199	A	2.0
8	☐			21224.06	0.0015	P	0.7

$$y = 1.9731E-004 * x + 4.4272E-005$$

$$R = 1.0000$$

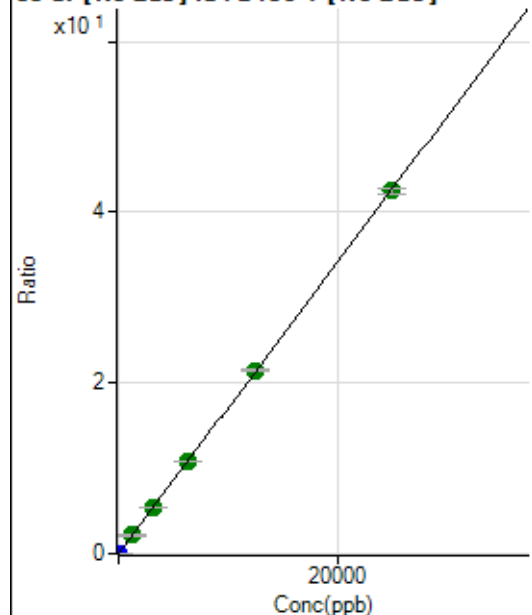
$$DL = 0.03397$$

$$BEC = 0.2244$$

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	336.12	0.0000	P	20.1
2	☐	1.000	1.032	26313.00	0.0018	P	2.1
3	☐	1250.000	1259.912	31814753.14	2.1461	A	1.0
4	☐	3125.000	3157.625	78759400.37	5.3786	A	0.6
5	☐	6250.000	6324.934	157804920.2	10.7736	A	1.0
6	☐	12500.000	12570.396	317452351.5	21.4118	A	1.0
7	☐	25000.000	24941.495	633008375.2	42.4841	A	1.7
8	☐			180352.99	0.0130	P	1.5

$$y = 0.0017 * x + 2.2701E-005$$

$$R = 1.0000$$

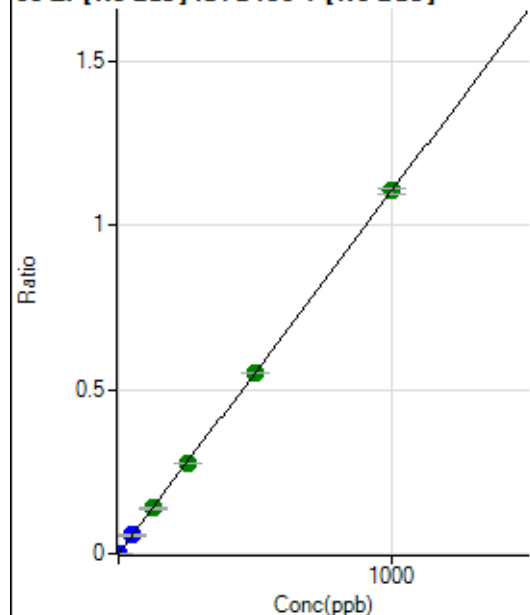
$$DL = 0.008032$$

$$BEC = 0.01333$$

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	622.25	0.0000	P	5.4
2	☐	1.000	0.997	16887.81	0.0011	P	1.7
3	☐	50.000	50.407	826304.99	0.0557	P	1.8
4	☐	125.000	124.934	2022241.58	0.1381	A	1.3
5	☐	250.000	248.958	4030330.47	0.2751	A	0.2
6	☐	500.000	498.405	8165243.76	0.5507	A	0.8
7	☐	1000.000	1001.046	16481134.05	1.1061	A	1.8
8	☐			8055.15	0.0006	P	2.2

$$y = 0.0011 * x + 4.2021E-005$$

$$R = 1.0000$$

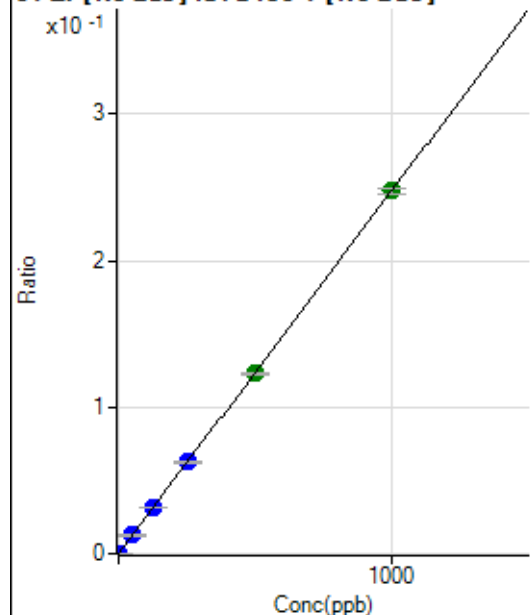
$$DL = 0.006163$$

$$BEC = 0.03803$$

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	108.34	0.0000	P	33.6
2	☐	1.000	0.954	3594.97	0.0002	P	3.8
3	☐	50.000	50.434	185209.26	0.0125	P	1.9
4	☐	125.000	125.361	454526.42	0.0310	P	0.1
5	☐	250.000	252.542	915914.21	0.0625	P	0.8
6	☐	500.000	497.634	1826557.23	0.1232	A	1.1
7	☐	1000.000	1000.481	3690529.94	0.2477	A	1.5
8	☐			1769.61	0.0001	P	9.1

$$y = 2.4756E-004 * x + 7.3168E-006$$

$$R = 1.0000$$

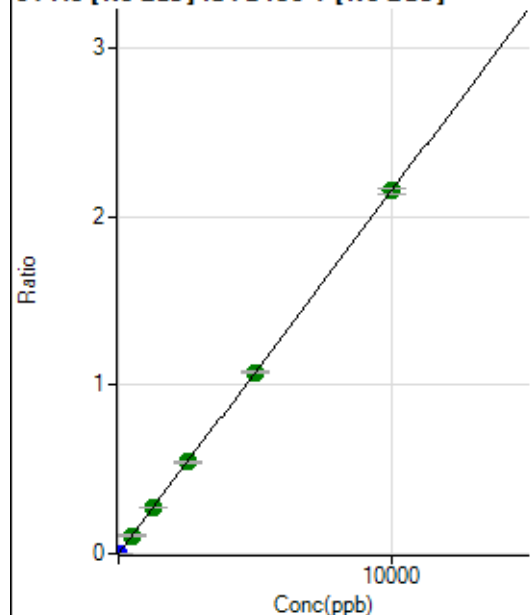
$$DL = 0.02975$$

$$BEC = 0.02956$$

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	200.01	0.0000	P	4.1
2	☐	5.000	6.074	19513.50	0.0013	P	1.3
3	☐	500.000	502.844	1604692.11	0.1083	A	1.1
4	☐	1250.000	1253.164	3949576.22	0.2698	A	0.9
5	☐	2500.000	2518.602	7940983.95	0.5422	A	1.2
6	☐	5000.000	4991.787	15931344.45	1.0745	A	0.7
7	☐	10000.000	9998.918	32069767.73	2.1523	A	1.4
8	☐			8422.10	0.0006	P	3.3

$$y = 2.1526\text{E-}004 * x + 1.3506\text{E-}005$$

$$R = 1.0000$$

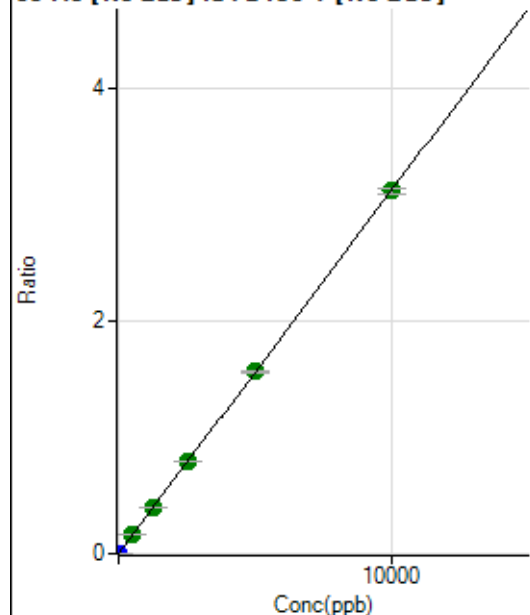
$$DL = 0.007701$$

$$BEC = 0.06275$$

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	69.45	0.0000	P	30.2
2	☐	5.000	5.219	24111.97	0.0016	P	1.9
3	☐	500.000	510.673	2361090.07	0.1593	A	1.0
4	☐	1250.000	1261.296	5759917.14	0.3934	A	0.6
5	☐	2500.000	2533.034	11571562.93	0.7900	A	0.9
6	☐	5000.000	5007.010	23152132.98	1.5616	A	0.6
7	☐	10000.000	9986.291	46405474.65	3.1145	A	1.6
8	☐			10281.70	0.0007	P	8.1

$$y = 3.1187\text{E-}004 * x + 4.6895\text{E-}006$$

$$R = 1.0000$$

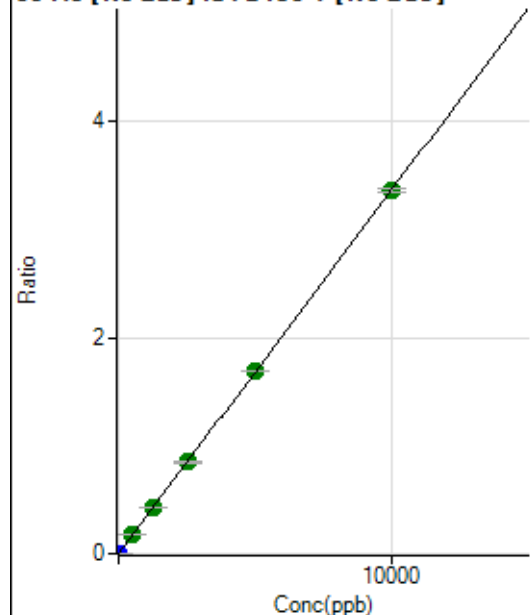
$$DL = 0.01362$$

$$BEC = 0.01504$$

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	327.79	0.0000	P	20.3
2	☐	5.000	5.313	26761.14	0.0018	P	1.2
3	☐	500.000	505.941	2526501.46	0.1704	A	0.7
4	☐	1250.000	1254.446	6187103.22	0.4225	A	0.7
5	☐	2500.000	2527.762	12470130.57	0.8514	A	1.5
6	☐	5000.000	5025.660	25097934.59	1.6927	A	0.5
7	☐	10000.000	9979.376	50081691.05	3.3612	A	1.2
8	☐			17235.55	0.0012	P	1.8

$$y = 3.3681E-004 * x + 2.2134E-005$$

$$R = 1.0000$$

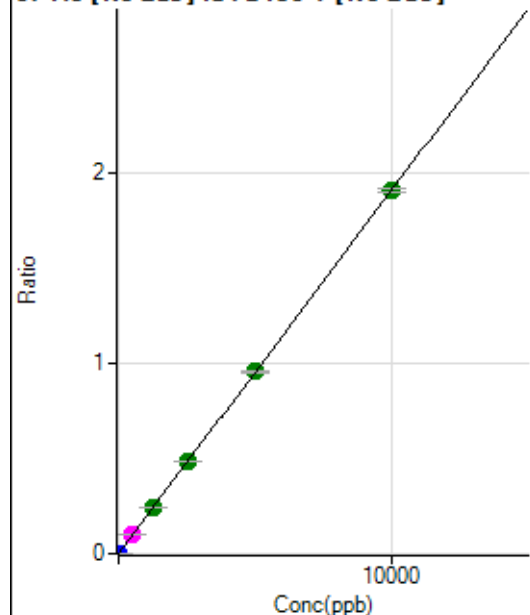
$$DL = 0.04005$$

$$BEC = 0.06572$$

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	38.89	0.0000	P	49.5
2	☐	5.000	5.326	15049.78	0.0010	P	1.9
3	☐	500.000	508.903	1439208.64	0.0971	M	0.4
4	☐	1250.000	1256.417	3509388.36	0.2397	A	0.5
5	☐	2500.000	2528.037	7064335.84	0.4823	A	0.8
6	☐	5000.000	5010.080	14171078.96	0.9558	A	0.6
7	☐	10000.000	9986.704	28386655.32	1.9052	A	1.2
8	☐			5512.29	0.0004	P	6.4

$$y = 1.9077E-004 * x + 2.6262E-006$$

$$R = 1.0000$$

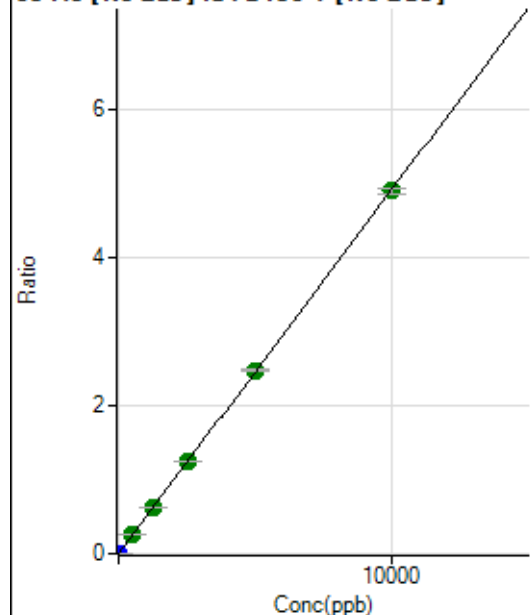
$$DL = 0.02043$$

$$BEC = 0.01377$$

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	144.45	0.0000	P	18.5
2	☐	5.000	5.179	37810.61	0.0026	P	0.4
3	☐	500.000	505.281	3687471.83	0.2488	A	0.8
4	☐	1250.000	1249.979	9010864.01	0.6154	A	0.4
5	☐	2500.000	2527.327	18224153.88	1.2442	A	1.1
6	☐	5000.000	5036.157	36761256.03	2.4793	A	1.0
7	☐	10000.000	9974.828	73166651.64	4.9105	A	1.6
8	☐			13726.20	0.0010	P	3.8

$$y = 4.9229\text{E-}004 * x + 9.7548\text{E-}006$$

$$R = 1.0000$$

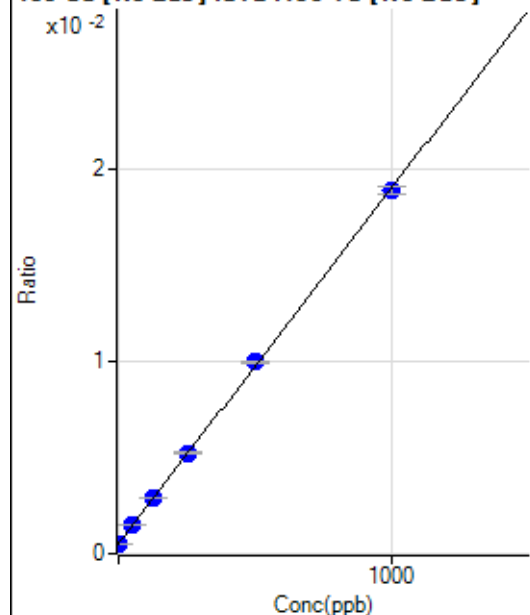
$$DL = 0.01103$$

$$BEC = 0.01982$$

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	6926.87	0.0005	P	3.9
2	☐	1.000	0.764	7160.26	0.0005	P	0.6
3	☐	50.000	51.472	19749.92	0.0015	P	1.4
4	☐	125.000	127.764	38515.54	0.0029	P	2.0
5	☐	250.000	255.504	70669.67	0.0052	P	1.9
6	☐	500.000	511.439	134000.95	0.0100	P	1.3
7	☐	1000.000	992.486	254541.53	0.0189	P	2.2
8	☐			7074.14	0.0006	P	4.0

$$y = 1.8472\text{E-}005 * x + 5.1948\text{E-}004$$

$$R = 0.9999$$

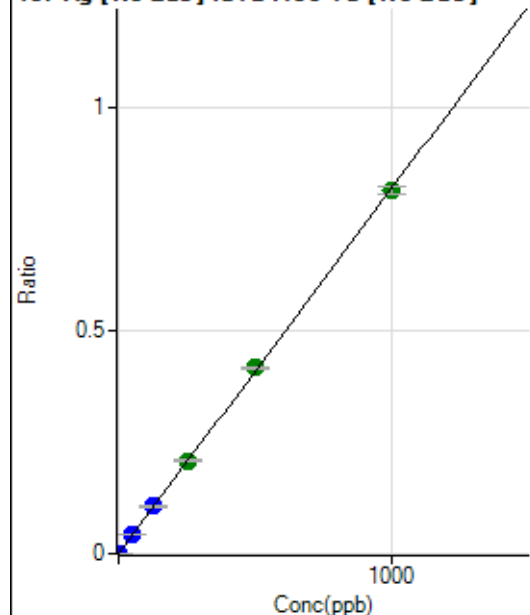
$$DL = 3.273$$

$$BEC = 28.12$$

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	97.22	0.0000	P	22.2
2	☐	1.000	0.847	9428.29	0.0007	P	5.8
3	☐	50.000	51.744	569989.07	0.0424	P	2.3
4	☐	125.000	129.155	1416221.56	0.1059	P	2.7
5	☐	250.000	255.181	2821646.94	0.2092	A	0.8
6	☐	500.000	508.377	5601951.56	0.4167	A	0.5
7	☐	1000.000	993.910	10999659.71	0.8147	A	2.0
8	☐			6129.22	0.0005	P	8.6

$$y = 8.1967\text{E-}004 * x + 7.2971\text{E-}006$$

$$R = 0.9999$$

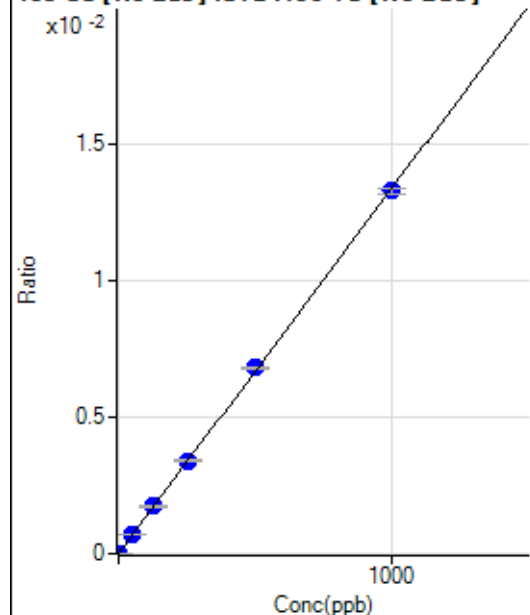
$$DL = 0.005932$$

$$BEC = 0.008903$$

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	33.33	0.0000	P	54.8
2	☐	1.000	0.930	201.40	0.0000	P	16.6
3	☐	50.000	52.495	9476.79	0.0007	P	0.8
4	☐	125.000	128.974	23125.51	0.0017	P	0.4
5	☐	250.000	253.561	45826.24	0.0034	P	2.2
6	☐	500.000	508.490	91566.79	0.0068	P	0.7
7	☐	1000.000	994.244	179772.86	0.0133	P	1.3
8	☐			93.06	0.0000	P	1.3

$$y = 1.3389\text{E-}005 * x + 2.5033\text{E-}006$$

$$R = 0.9999$$

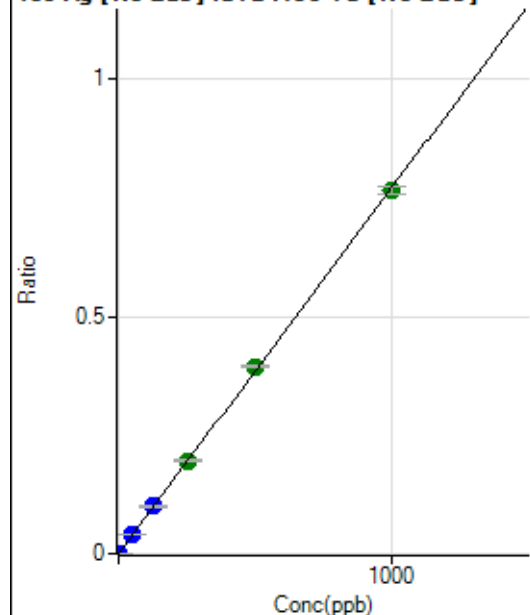
$$DL = 0.3072$$

$$BEC = 0.187$$

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	44.45	0.0000	P	47.9
2	☐	1.000	0.868	9036.35	0.0007	P	7.5
3	☐	50.000	52.339	541927.61	0.0403	P	2.5
4	☐	125.000	129.221	1331703.44	0.0996	P	1.6
5	☐	250.000	254.169	2641906.01	0.1958	A	1.1
6	☐	500.000	511.655	5300295.13	0.3942	A	0.5
7	☐	1000.000	992.486	10325048.32	0.7647	A	2.0
8	☐			5498.41	0.0004	P	1.7

$$y = 7.7050\text{E-}004 * x + 3.3400\text{E-}006$$

$$R = 0.9999$$

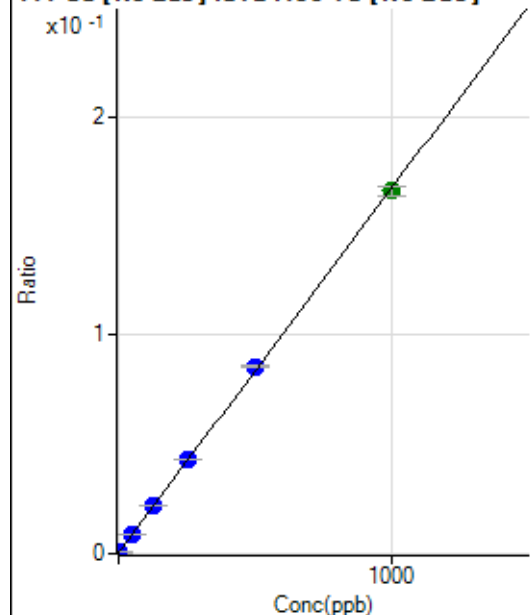
$$DL = 0.00623$$

$$BEC = 0.004335$$

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	4850.48	0.0004	P	4.0
2	☐	1.000	1.055	7242.26	0.0005	P	1.7
3	☐	50.000	52.096	121564.73	0.0090	P	0.6
4	☐	125.000	127.838	289888.11	0.0217	P	0.6
5	☐	250.000	255.837	580212.47	0.0430	P	0.0
6	☐	500.000	509.922	1147917.94	0.0854	P	1.1
7	☐	1000.000	993.120	2240409.91	0.1659	A	2.3
8	☐			5374.28	0.0004	P	3.6

$$y = 1.6672\text{E-}004 * x + 3.6376\text{E-}004$$

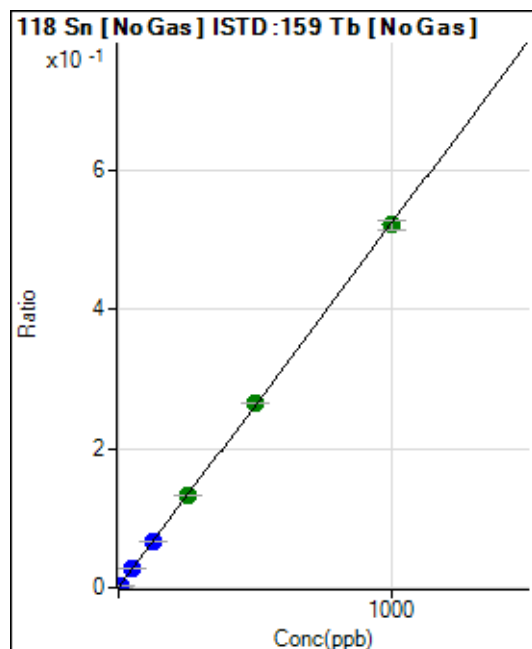
$$R = 0.9999$$

$$DL = 0.2647$$

$$BEC = 2.182$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4984.38	0.0004	P	5.0
2	☐	5.000	5.188	41438.20	0.0031	P	3.7
3	☐	50.000	50.991	363661.05	0.0271	P	0.4
4	☐	125.000	125.966	886972.92	0.0663	P	1.1
5	☐	250.000	253.353	1794088.39	0.1330	A	0.6
6	☐	500.000	506.870	3572677.03	0.2657	A	0.8
7	☐	1000.000	995.556	7041913.79	0.5216	A	2.4
8	☐			8416.57	0.0007	P	2.8

$$y = 5.2352\text{E-}004 * x + 3.7383\text{E-}004$$

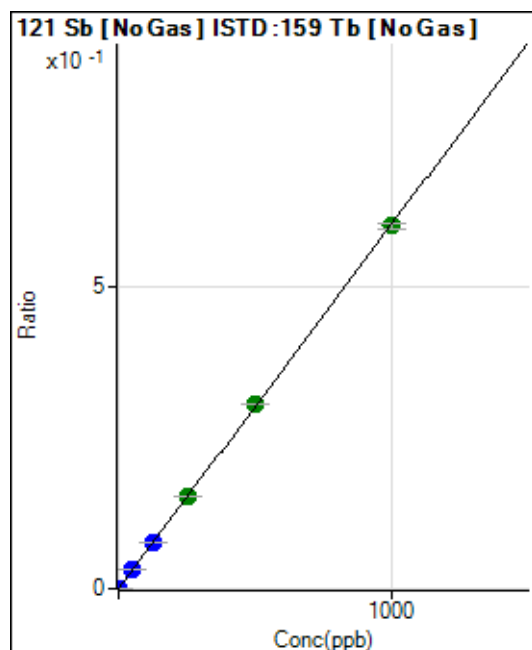
$$R = 1.0000$$

$$DL = 0.1068$$

$$BEC = 0.7141$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.56	0.0000	P	32.2
2	☐	2.000	2.038	16679.51	0.0012	P	3.8
3	☐	50.000	50.515	410856.13	0.0306	P	0.9
4	☐	125.000	124.984	1011630.72	0.0756	P	0.1
5	☐	250.000	252.038	2057505.52	0.1525	A	0.5
6	☐	500.000	507.204	4126798.10	0.3070	A	0.3
7	☐	1000.000	995.865	8137584.21	0.6027	A	1.4
8	☐			8733.40	0.0007	P	6.6

$$y = 6.0518\text{E-}004 * x + 9.7752\text{E-}006$$

$$R = 1.0000$$

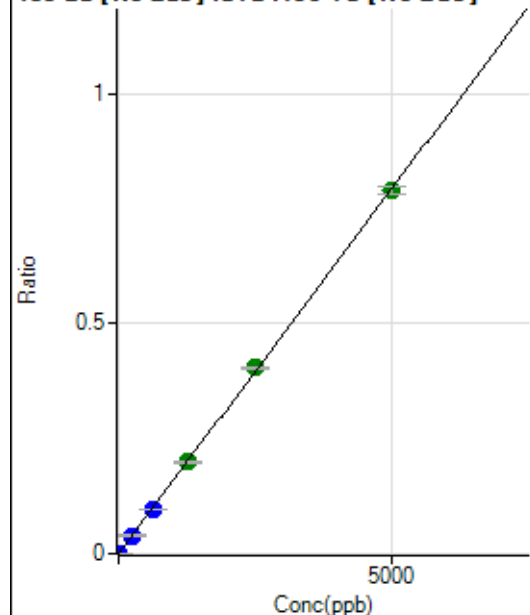
$$DL = 0.01561$$

$$BEC = 0.01615$$

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	44.45	0.0000	P	65.5
2	☐	10.000	9.941	21188.49	0.0016	P	1.0
3	☐	250.000	250.485	533414.06	0.0397	P	1.4
4	☐	625.000	617.419	1308693.94	0.0979	P	0.3
5	☐	1250.000	1256.242	2685613.64	0.1991	A	0.6
6	☐	2500.000	2545.813	5424884.50	0.4035	A	0.9
7	☐	5000.000	4976.456	10649299.98	0.7887	A	2.2
8	☐			4909.31	0.0004	P	1.4

$$y = 1.5849\text{E-}004 * x + 3.3243\text{E-}006$$

$$R = 0.9999$$

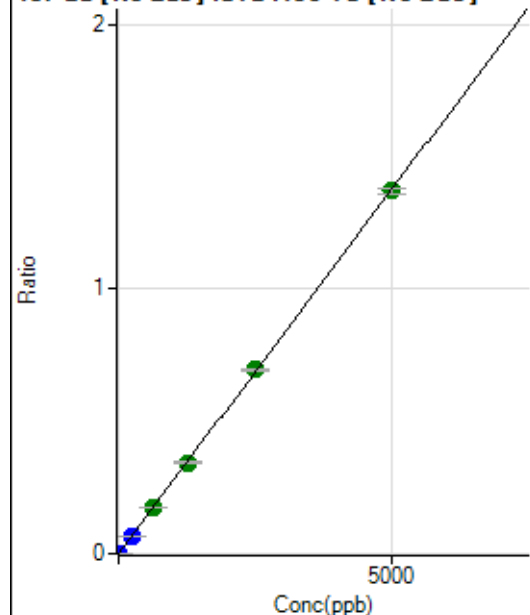
$$DL = 0.04124$$

$$BEC = 0.02097$$

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	83.33	0.0000	P	35.5
2	☐	10.000	10.036	37107.37	0.0028	P	1.3
3	☐	250.000	250.269	924397.20	0.0688	P	0.3
4	☐	625.000	626.624	2303725.27	0.1723	A	0.8
5	☐	1250.000	1254.134	4649791.20	0.3448	A	0.8
6	☐	2500.000	2529.081	9347983.54	0.6953	A	1.3
7	☐	5000.000	4984.209	18500095.21	1.3702	A	1.9
8	☐			8547.24	0.0007	P	2.3

$$y = 2.7490\text{E-}004 * x + 6.2403\text{E-}006$$

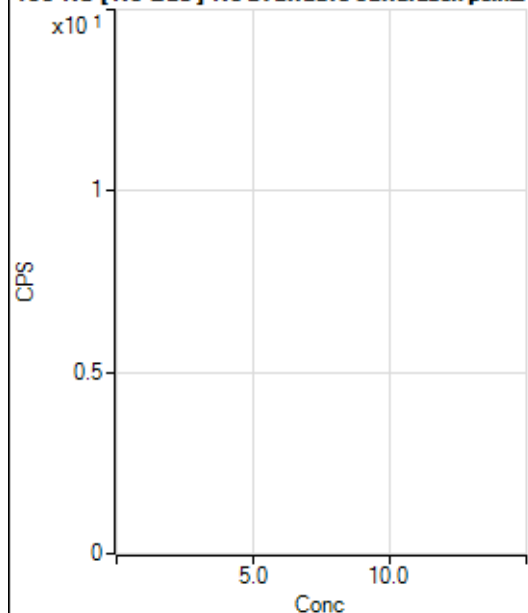
$$R = 1.0000$$

$$DL = 0.0242$$

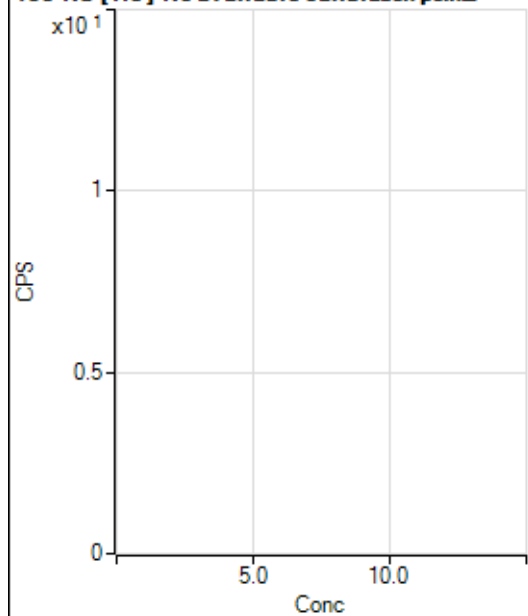
$$BEC = 0.0227$$

Weight: <None>

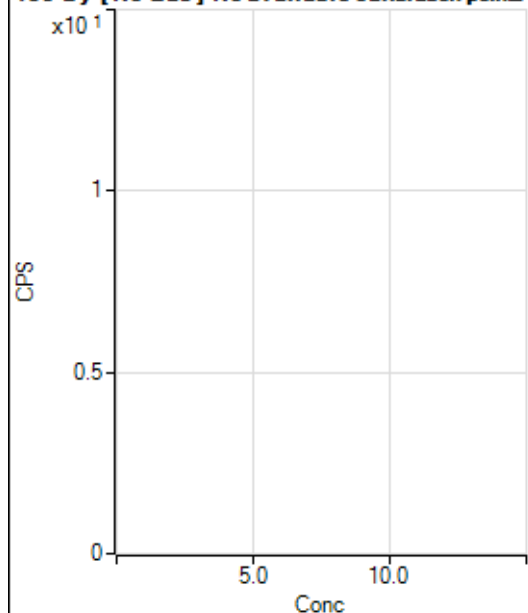
Min Conc: 0

150 Nd [No Gas] No available calibration points

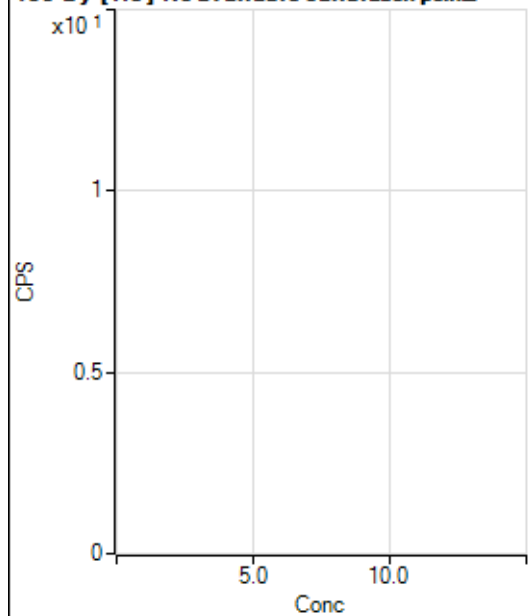
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			8.89		P	43.3
3	☐			64.45		P	39.2
4	☐			162.22		P	26.7
5	☐			275.57		P	17.5
6	☐			555.58		P	3.9
7	☐			1042.28		P	6.3
8	☐			93.33		P	32.7

150 Nd [He] No available calibration points

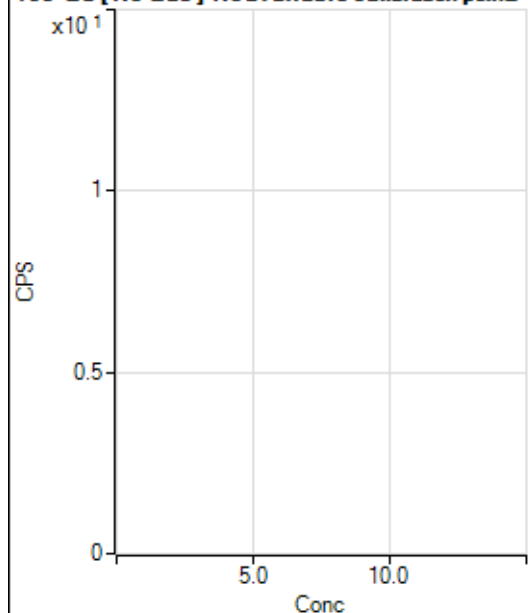
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	124.
2	☐			3.33		P	173.
3	☐			11.11		P	91.7
4	☐			41.11		P	23.4
5	☐			66.67		P	10.0
6	☐			152.23		P	10.1
7	☐			298.89		P	2.3
8	☐			53.33		P	27.2

156 Dy [No Gas] No available calibration points

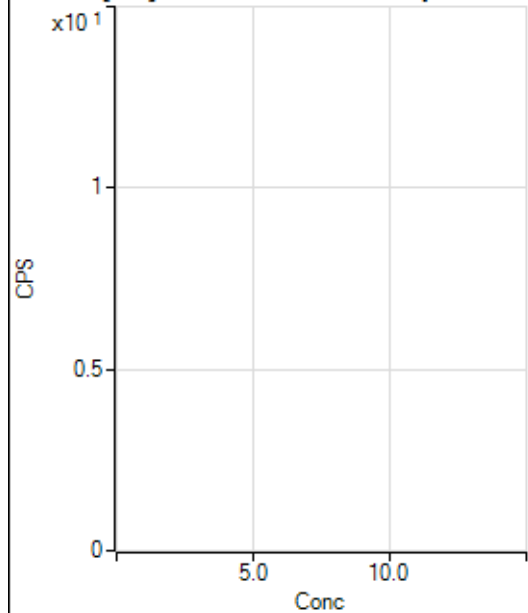
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐			19.45		P	24.7
3	☐			41.67		P	40.0
4	☐			133.34		P	16.5
5	☐			150.00		P	14.7
6	☐			250.01		P	23.1
7	☐			586.14		P	8.6
8	☐			1041.73		P	4.9

156 Dy [He] No available calibration points

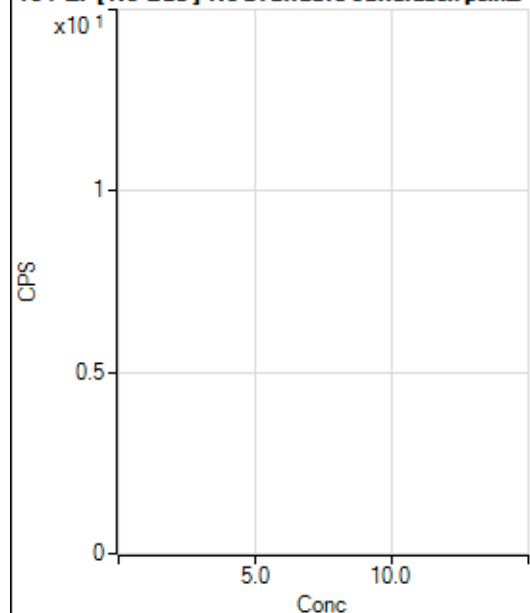
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			1.11		P	173.
3	☐			31.11		P	43.3
4	☐			68.89		P	12.2
5	☐			153.33		P	18.8
6	☐			308.89		P	9.1
7	☐			673.35		P	5.2
8	☐			718.92		P	7.2

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

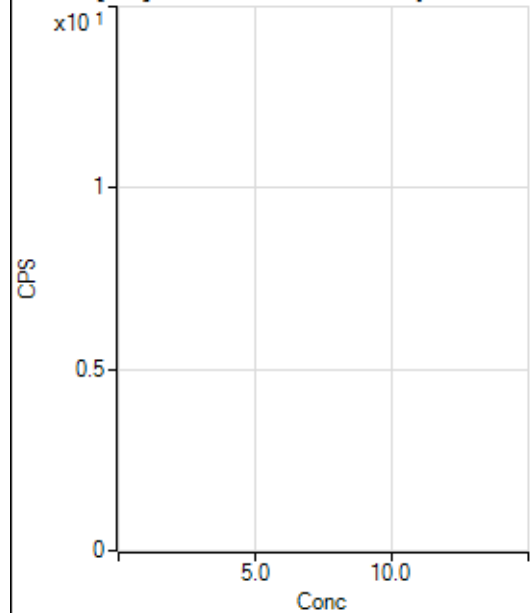
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			169.45		P	23.2
2	☐			144.45		P	8.8
3	☐			183.34		P	4.5
4	☐			155.56		P	6.2
5	☐			161.12		P	10.8
6	☐			280.57		P	16.4
7	☐			386.13		P	14.4
8	☐			775.04		P	8.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			464.46		P	7.0
2	☐			442.23		P	10.0
3	☐			492.24		P	5.3
4	☐			520.02		P	9.0
5	☐			507.79		P	16.6
6	☐			617.80		P	8.7
7	☐			676.69		P	6.3
8	☐			1048.94		P	1.9

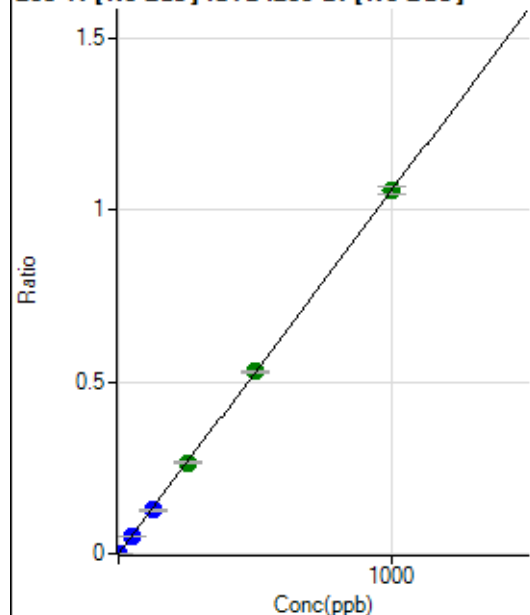
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	24.7
2	☐			33.33		P	50.0
3	☐			50.00		P	33.3
4	☐			91.67		P	50.6
5	☐			88.89		P	27.1
6	☐			172.23		P	21.8
7	☐			238.89		P	8.8
8	☐			119.45		P	39.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	18.4
2	☐			38.89		P	34.6
3	☐			31.11		P	80.4
4	☐			58.89		P	16.3
5	☐			68.89		P	19.5
6	☐			113.33		P	7.8
7	☐			195.56		P	29.0
8	☐			55.55		P	24.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	508.35	0.0001	P	8.1
2	☐	1.000	0.931	9289.55	0.0010	P	2.1
3	☐	50.000	47.759	450757.86	0.0505	P	0.7
4	☐	125.000	119.234	1116400.60	0.1260	P	0.3
5	☐	250.000	251.340	2349294.54	0.2656	A	0.8
6	☐	500.000	501.510	4655776.84	0.5298	A	0.5
7	☐	1000.000	999.743	9057240.13	1.0562	A	2.0
8	☐			2878.18	0.0004	P	7.7

$$y = 0.0011 * x + 5.7486E-005$$

$$R = 1.0000$$

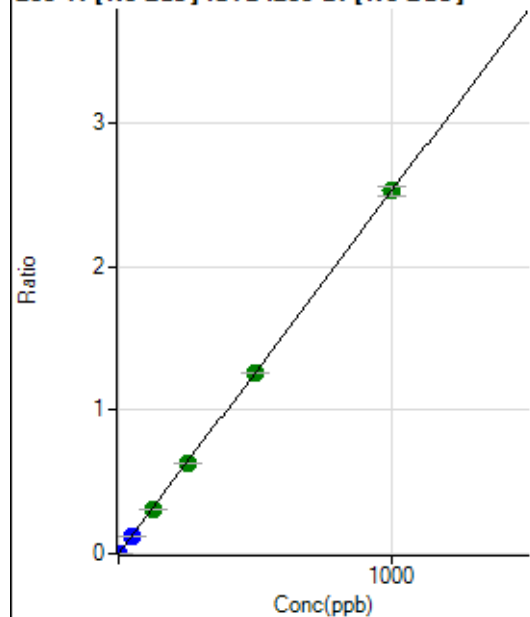
$$DL = 0.01328$$

$$BEC = 0.05442$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1091.74	0.0001	P	14.9
2	☐	1.000	0.955	22644.35	0.0025	P	1.3
3	☐	50.000	47.571	1074475.67	0.1204	P	0.7
4	☐	125.000	122.859	2752987.52	0.3108	A	0.9
5	☐	250.000	249.269	5576892.36	0.6304	A	1.4
6	☐	500.000	499.207	11092801.03	1.2624	A	0.2
7	☐	1000.000	1000.968	21705098.92	2.5311	A	2.3
8	☐			6721.28	0.0009	P	3.5

$$y = 0.0025 * x + 1.2341E-004$$

$$R = 1.0000$$

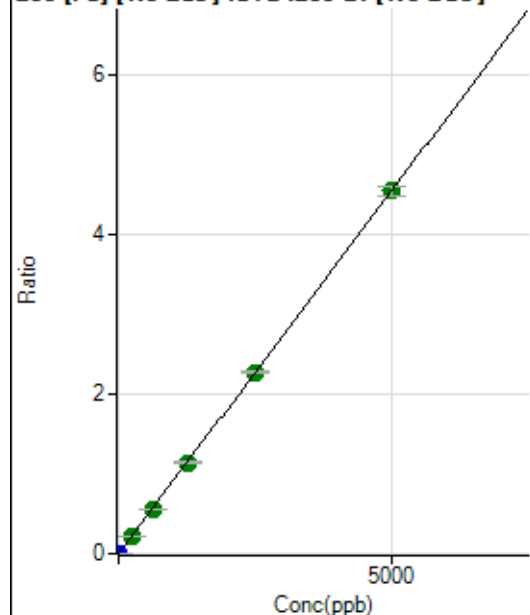
$$DL = 0.02187$$

$$BEC = 0.04881$$

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	537.06	0.0001	P	5.8
2	☐	1.000	0.914	7941.31	0.0009	P	1.5
3	☐	250.000	244.891	1983423.96	0.2223	A	0.4
4	☐	625.000	615.795	4950826.73	0.5588	A	0.4
5	☐	1250.000	1253.190	10060881.01	1.1372	A	1.6
6	☐	2500.000	2499.715	19930743.73	2.2682	A	0.7
7	☐	5000.000	5000.751	38911334.20	4.5376	A	2.7
8	☐			7635.59	0.0011	P	2.9

$$y = 9.0738\text{E-}004 * x + 6.0768\text{E-}005$$

$$R = 1.0000$$

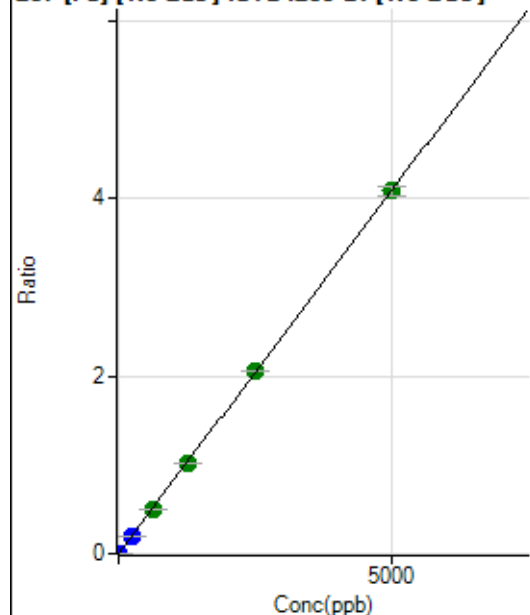
$$DL = 0.01172$$

$$BEC = 0.06697$$

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	403.72	0.0000	P	5.6
2	☐	1.000	0.891	6912.99	0.0008	P	1.7
3	☐	250.000	231.327	1688715.78	0.1892	P	0.6
4	☐	625.000	612.151	4435845.67	0.5007	A	0.1
5	☐	1250.000	1246.184	9017222.25	1.0192	A	1.0
6	☐	2500.000	2507.702	18022961.63	2.0510	A	0.2
7	☐	5000.000	4999.643	35063676.48	4.0890	A	2.7
8	☐			6638.77	0.0009	P	0.6

$$y = 8.1785\text{E-}004 * x + 4.5675\text{E-}005$$

$$R = 1.0000$$

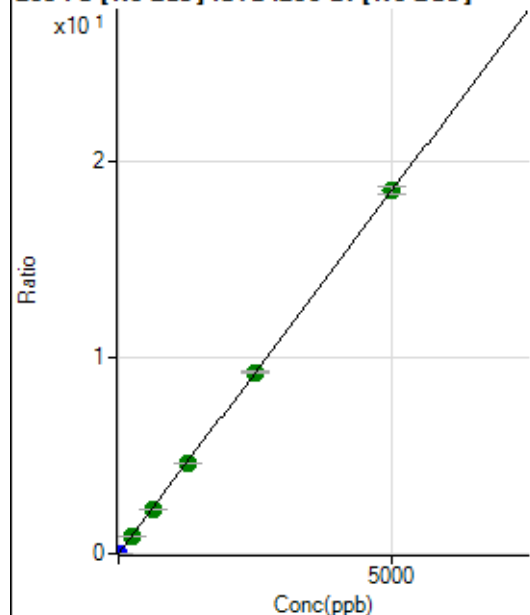
$$DL = 0.009465$$

$$BEC = 0.05585$$

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	2050.10	0.0002	P	3.9
2	☐	1.000	0.914	32297.18	0.0036	P	0.7
3	☐	250.000	243.506	8053167.96	0.9024	A	0.3
4	☐	625.000	614.280	20166641.63	2.2762	A	0.5
5	☐	1250.000	1248.071	40911666.25	4.6245	A	1.0
6	☐	2500.000	2497.093	81303747.07	9.2522	A	0.8
7	☐	5000.000	5003.600	158978247.7	18.5391	A	2.2
8	☐			30245.09	0.0042	P	1.2

$$y = 0.0037 * x + 2.3193E-004$$

$$R = 1.0000$$

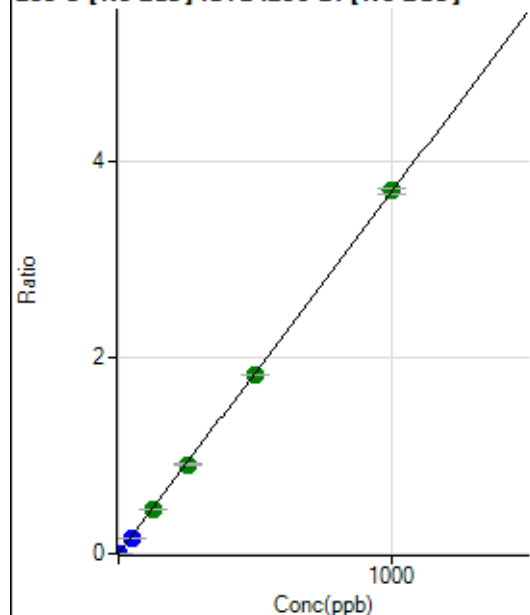
$$DL = 0.007264$$

$$BEC = 0.0626$$

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	341.68	0.0000	P	35.1
2	☐	1.000	0.884	29419.42	0.0033	P	1.1
3	☐	50.000	44.403	1461753.99	0.1638	P	0.9
4	☐	125.000	121.639	3975421.18	0.4486	A	1.9
5	☐	250.000	247.054	8060975.35	0.9112	A	1.2
6	☐	500.000	496.129	16078992.55	1.8297	A	0.2
7	☐	1000.000	1003.372	31733914.25	3.7004	A	1.7
8	☐			3025.44	0.0004	P	11.5

$$y = 0.0037 * x + 3.8626E-005$$

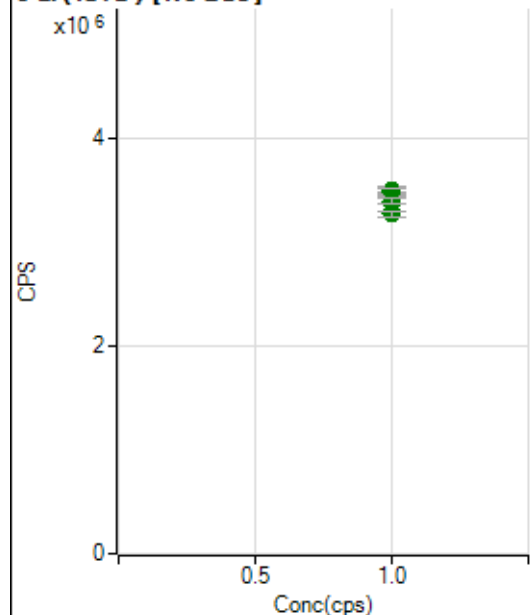
$$R = 1.0000$$

$$DL = 0.01102$$

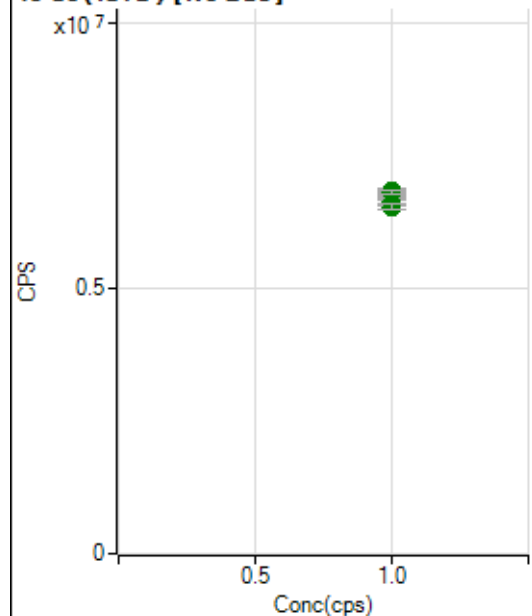
$$BEC = 0.01047$$

Weight: <None>

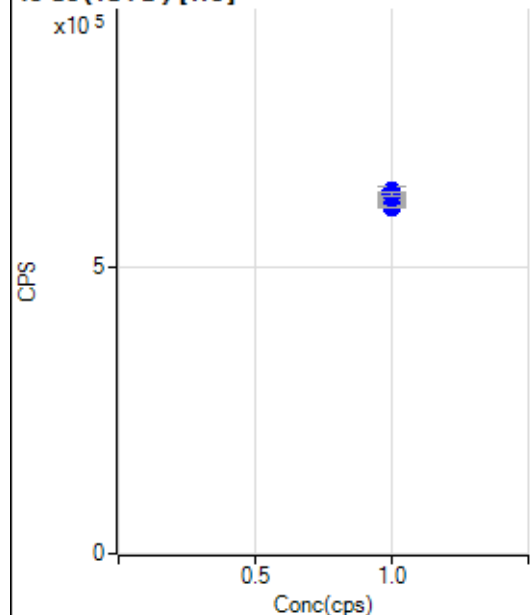
Min Conc: 0

6 Li (ISTD) [No Gas]

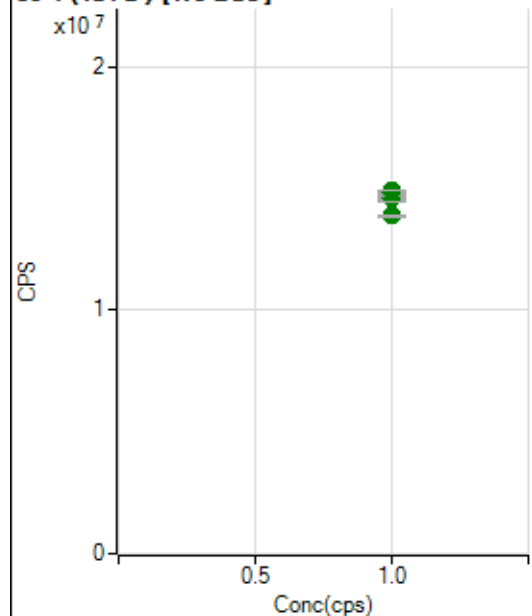
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3445415.23		A	0.4
2	☐	1.000		3497845.99		A	2.0
3	☐	1.000		3472432.38		A	1.1
4	☐	1.000		3483446.30		A	2.2
5	☐	1.000		3490467.59		A	1.6
6	☐	1.000		3437940.40		A	0.7
7	☐	1.000		3400859.22		A	1.6
8	☐	1.000		3273976.96		A	2.0

45 Sc (ISTD) [No Gas]

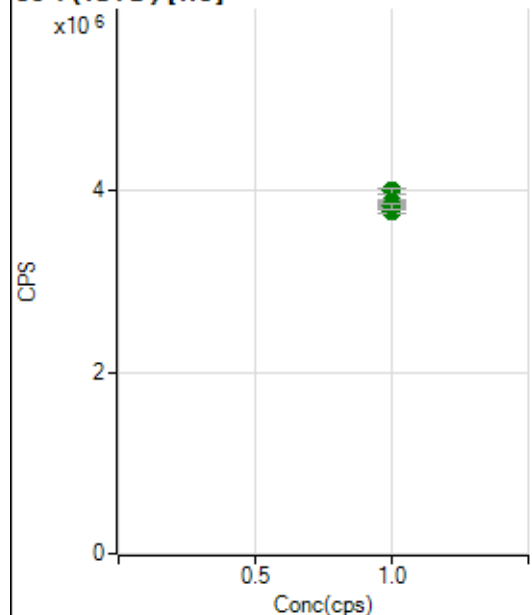
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6799531.98		A	1.0
2	☐	1.000		6779566.71		A	2.1
3	☐	1.000		6825635.24		A	0.9
4	☐	1.000		6654365.66		A	2.3
5	☐	1.000		6605456.77		A	1.9
6	☐	1.000		6632714.00		A	1.4
7	☐	1.000		6800382.12		A	0.9
8	☐	1.000		6530019.49		A	1.4

45 Sc (ISTD) [He]

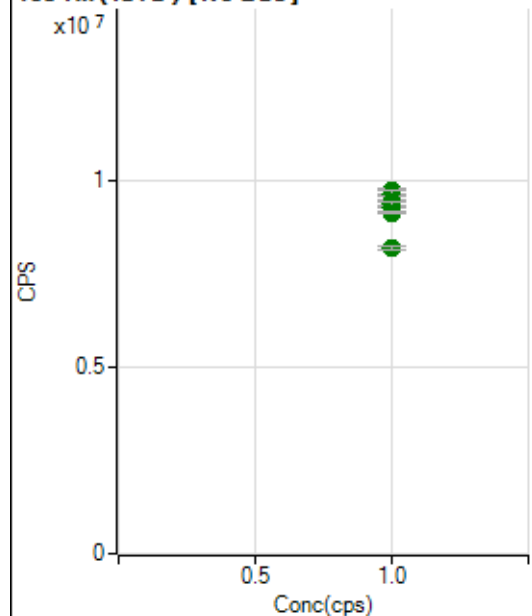
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		610579.65		P	0.5
2	☐	1.000		618546.33		P	0.1
3	☐	1.000		617674.23		P	1.6
4	☐	1.000		612250.57		P	0.5
5	☐	1.000		603415.02		P	0.3
6	☐	1.000		631032.45		P	2.2
7	☐	1.000		617438.29		P	0.5
8	☐	1.000		625822.13		P	0.9

89 Y (ISTD) [No Gas]

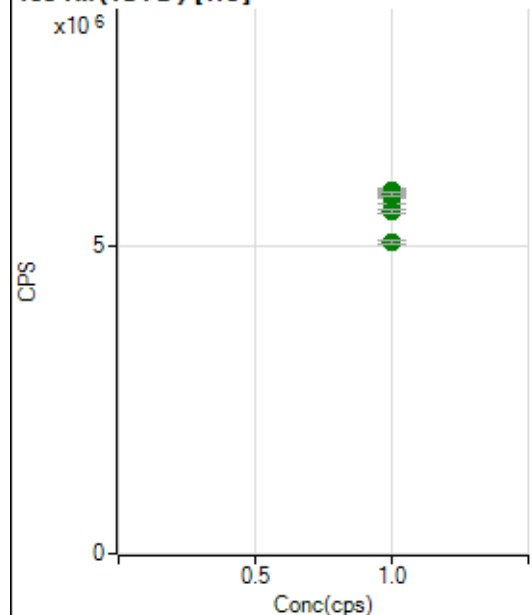
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14807926.87		A	0.1
2	☐	1.000		14774654.64		A	2.3
3	☐	1.000		14823897.42		A	0.8
4	☐	1.000		14642456.17		A	2.0
5	☐	1.000		14649797.28		A	2.5
6	☐	1.000		14826163.53		A	1.5
7	☐	1.000		14899745.19		A	0.1
8	☐	1.000		13872143.13		A	0.6

89 Y (ISTD) [He]

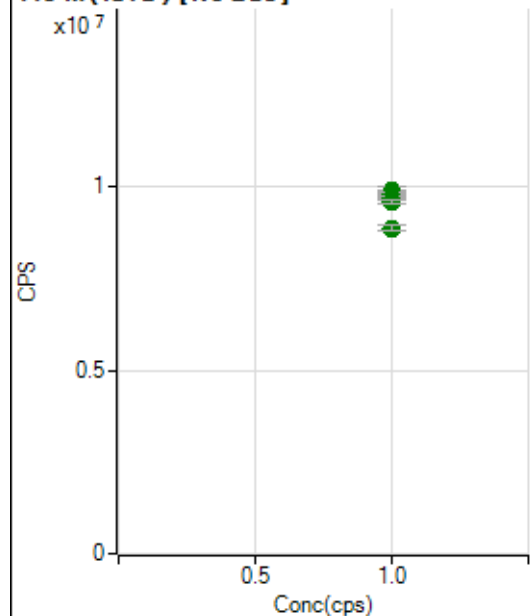
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3803354.42		A	0.6
2	☐	1.000		3846636.16		A	0.4
3	☐	1.000		3855412.06		A	0.6
4	☐	1.000		3815705.85		A	0.6
5	☐	1.000		3779662.10		A	1.4
6	☐	1.000		3998261.12		A	1.4
7	☐	1.000		3884223.14		A	0.6
8	☐	1.000		3825470.71		A	1.2

103 Rh (ISTD) [No Gas]

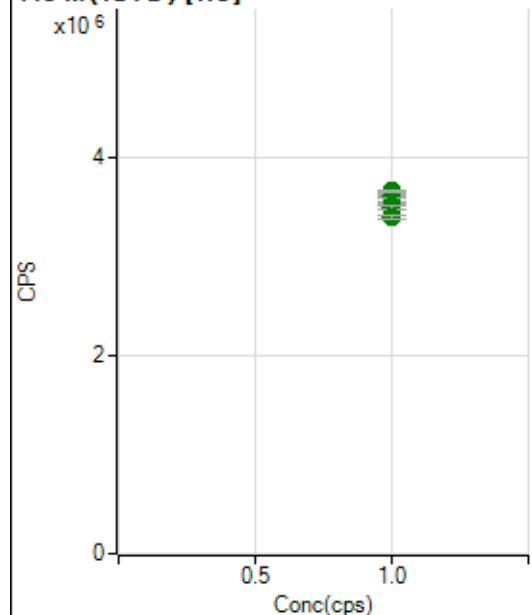
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9652761.73		A	0.2
2	☐	1.000		9735936.80		A	1.9
3	☐	1.000		9663271.24		A	1.7
4	☐	1.000		9432560.28		A	1.8
5	☐	1.000		9378533.33		A	1.8
6	☐	1.000		9303013.89		A	2.5
7	☐	1.000		9148799.17		A	0.8
8	☐	1.000		8188309.88		A	1.3

103 Rh (ISTD) [He]

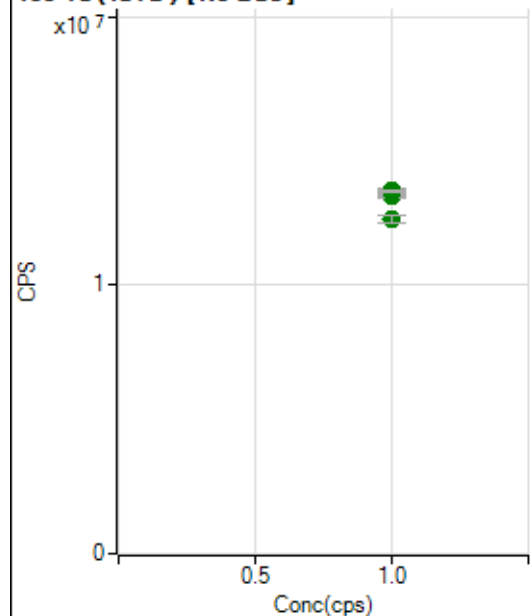
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5805903.52		A	0.5
2	☐	1.000		5878265.12		A	1.0
3	☐	1.000		5876364.29		A	0.9
4	☐	1.000		5786381.79		A	1.2
5	☐	1.000		5660829.85		A	0.1
6	☐	1.000		5825004.36		A	1.5
7	☐	1.000		5552314.02		A	1.0
8	☐	1.000		5054848.99		A	1.2

115 In (ISTD) [No Gas]

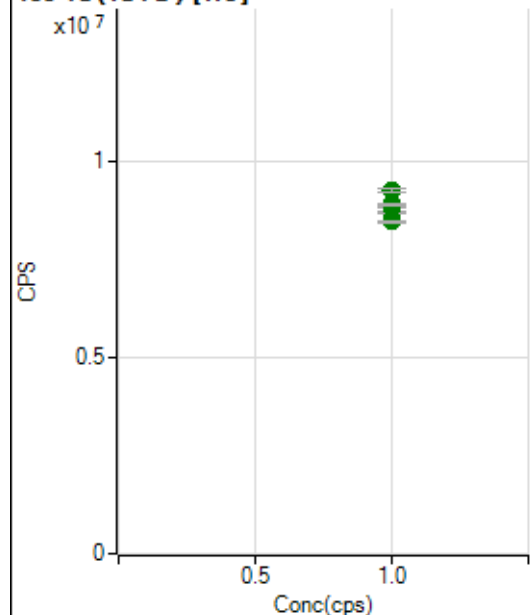
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9783327.93		A	0.5
2	☐	1.000		9892053.25		A	2.4
3	☐	1.000		9856119.84		A	1.2
4	☐	1.000		9794799.77		A	1.7
5	☐	1.000		9769255.37		A	2.0
6	☐	1.000		9700767.37		A	0.8
7	☐	1.000		9593748.30		A	0.6
8	☐	1.000		8864126.07		A	1.7

115 In (ISTD) [He]

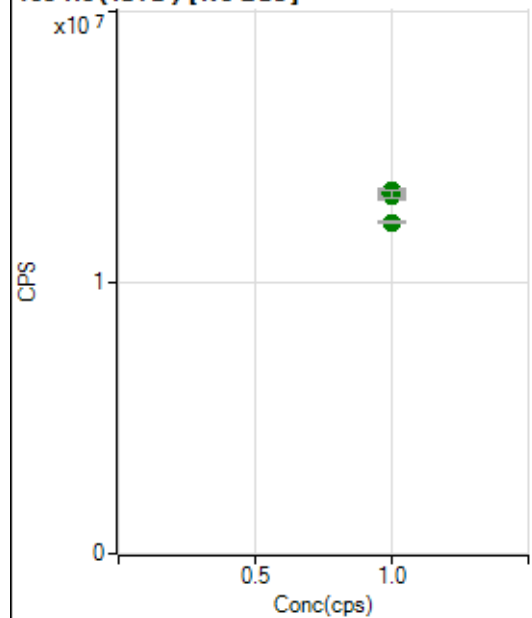
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3539278.24		A	0.5
2	☐	1.000		3613983.35		A	0.9
3	☐	1.000		3619869.78		A	1.1
4	☐	1.000		3608546.93		A	0.8
5	☐	1.000		3508393.06		A	0.6
6	☐	1.000		3655694.43		A	0.7
7	☐	1.000		3486524.36		A	0.8
8	☐	1.000		3397416.37		A	1.2

159 Tb (ISTD) [No Gas]

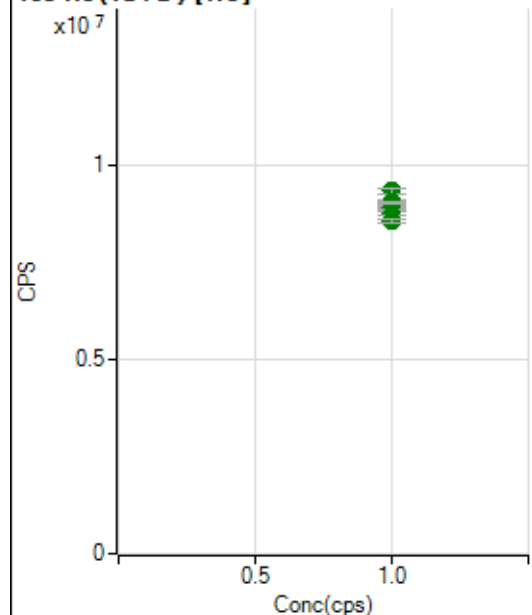
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13336157.44		A	0.8
2	☐	1.000		13419809.10		A	2.9
3	☐	1.000		13434517.58		A	1.5
4	☐	1.000		13372872.72		A	1.7
5	☐	1.000		13488075.77		A	2.2
6	☐	1.000		13443975.08		A	1.2
7	☐	1.000		13503066.46		A	0.7
8	☐	1.000		12449995.78		A	1.9

159 Tb (ISTD) [He]

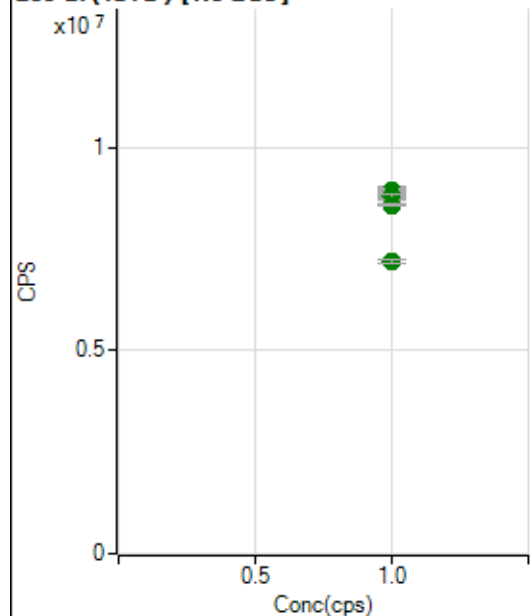
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8729258.20		A	0.5
2	☐	1.000		8892762.09		A	0.4
3	☐	1.000		8857786.74		A	0.5
4	☐	1.000		8880694.66		A	1.5
5	☐	1.000		8884581.46		A	0.2
6	☐	1.000		9264596.74		A	1.2
7	☐	1.000		8923694.03		A	0.5
8	☐	1.000		8482353.14		A	0.8

165 Ho (ISTD) [No Gas]

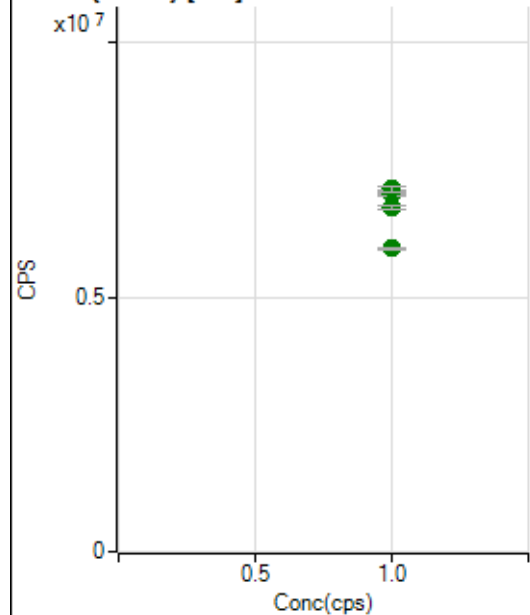
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13173308.00		A	0.8
2	☐	1.000		13225127.58		A	2.6
3	☐	1.000		13222719.25		A	1.5
4	☐	1.000		13194264.66		A	2.1
5	☐	1.000		13332878.14		A	2.4
6	☐	1.000		13372255.63		A	1.4
7	☐	1.000		13265407.58		A	2.0
8	☐	1.000		12217597.46		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8774368.41		A	0.7
2	☐	1.000		8913178.69		A	0.6
3	☐	1.000		8917213.82		A	0.7
4	☐	1.000		9002768.34		A	1.0
5	☐	1.000		9072583.68		A	0.5
6	☐	1.000		9352441.11		A	1.6
7	☐	1.000		9058686.60		A	0.3
8	☐	1.000		8582340.43		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8840444.87		A	0.8
2	☐	1.000		8922541.32		A	2.3
3	☐	1.000		8923637.44		A	1.3
4	☐	1.000		8859328.27		A	1.6
5	☐	1.000		8846445.77		A	1.9
6	☐	1.000		8787415.98		A	1.5
7	☐	1.000		8576097.86		A	0.8
8	☐	1.000		7193147.32		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7026977.46		A	0.8
2	☐	1.000		7066783.85		A	1.1
3	☐	1.000		7101650.94		A	0.6
4	☐	1.000		7056058.71		A	0.8
5	☐	1.000		7028427.47		A	0.6
6	☐	1.000		7131294.13		A	1.9
7	☐	1.000		6767944.41		A	0.7
8	☐	1.000		5964795.54		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7093022MS.b

Acq. Date-Time 2022-09-30 12:53:12

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		12112	121116.97			0.516	5.000
24		114035	1140347.15			0.828	5.000
25		15279	152793.56			0.706	5.000
26		16977	169771.29			0.956	5.000
59		89603	896028.64			1.008	5.000
113		9853	98530.07			0.575	5.000
115		123185	1231852.94			0.688	5.000
206		32071	320708.99			0.507	5.000
207		29801	298005.15			0.885	5.000
208		69447	694465.01			0.355	5.000
220		0	4.40			9.508	

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

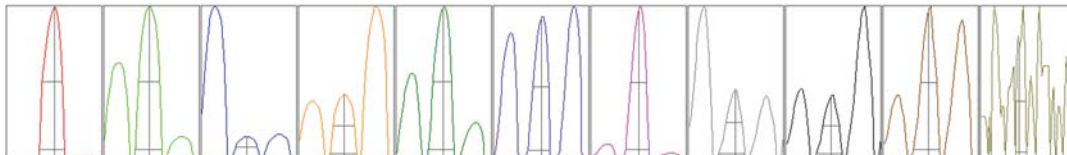
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12079	12070	12148	12204	12057
24	112617	113730	114872	114910	114044
25	15122	15228	15341	15400	15306
26	16844	16842	16927	17226	17047
59	88279	89163	90232	90541	89798
113	9891	9901	9835	9876	9762
115	123520	122573	122572	124529	122732
206	31875	31940	32104	32270	32166
207	29340	29822	29981	29941	29917
208	69044	69572	69541	69678	69397

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	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20895.29	9.05	8.90 - 9.10	
24	179892.29	23.95	23.90 - 24.10	
25	23736.57	24.95	24.90 - 25.10	
26	26635.31	25.95	25.90 - 26.10	
59	161605.89	59.00	58.90 - 59.10	
113	20378.52	113.05	112.90 - 113.10	
115	256362.68	115.05	114.90 - 115.10	
206	64519.94	206.00	205.90 - 206.10	
207	57672.85	206.95	206.90 - 207.10	
208	139126.82	207.95	207.90 - 208.10	
220	0.55	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.788	0.900	
24	0.67	0.835	0.900	
25	0.68	0.837	0.900	
26	0.68	0.837	0.900	
59	0.57	0.812	0.900	
113	0.49	0.706	0.900	
115	0.49	0.738	0.900	
206	0.51	0.816	0.900	
207	0.52	0.812	0.900	
208	0.51	0.825	0.900	
220	0.29	0.344		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	15.2 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-90 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	0.9999	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.4 mm
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EM

Discriminator	3.1 mV	Analog HV	2218 V	Pulse HV	1396 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		31329	313294.94			0.268	
89		48435	484351.98			0.266	
205		51311	513106.65			0.681	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	31307	31202	31388	31333	31419
89	48613	48263	48382	48434	48484
205	51555	50910	51167	51143	51778

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	11.2 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-180.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-95 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	0.9999	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.4 mm
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EM

Discriminator	3.1 mV	Analog HV	2218 V	Pulse HV	1396 V
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