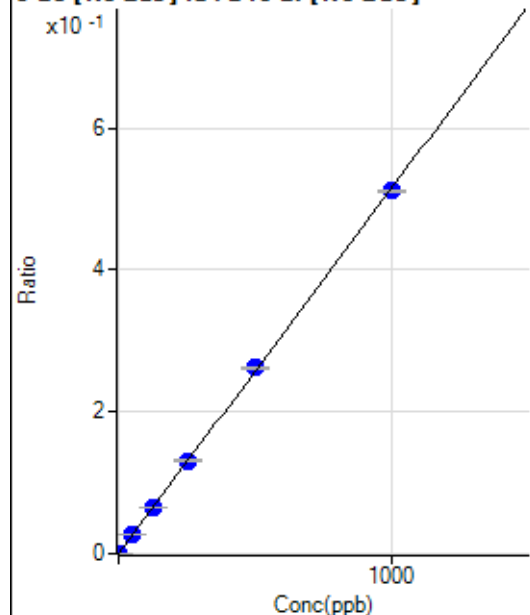


Calibration for 007CALS.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\P7060321MS.b\
 Analysis File: P7060321MS.batch.bin
 DA Date-Time: 2021-06-04 11:54:11
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-06-03 15:00:07
2	005CALS.d	S02	2021-06-03 15:06:17
3	006CALS.d	S03	2021-06-03 15:09:22
4	007CALS.d	S04	2021-06-03 15:12:26
5	008CALS.d	S05	2021-06-03 15:15:28
6	009CALS.d	S06	2021-06-03 15:18:28
7	010CALS.d	S07	2021-06-03 15:21:23
8	011CALS.d	S08	2021-06-03 15:24:15

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0000	P	26.8
2	☐	1.000	1.035	1383.42	0.0006	P	3.8
3	☐	50.000	51.500	65529.47	0.0265	P	1.1
4	☐	125.000	127.085	159601.45	0.0654	P	1.2
5	☐	250.000	255.000	317351.85	0.1313	P	1.8
6	☐	500.000	510.287	619481.87	0.2627	P	1.1
7	☐	1000.000	993.271	1172794.96	0.5113	P	0.7
8	☐			487.06	0.0002	P	18.6

$$y = 5.1471\text{E-}004 * x + 2.9647\text{E-}005$$

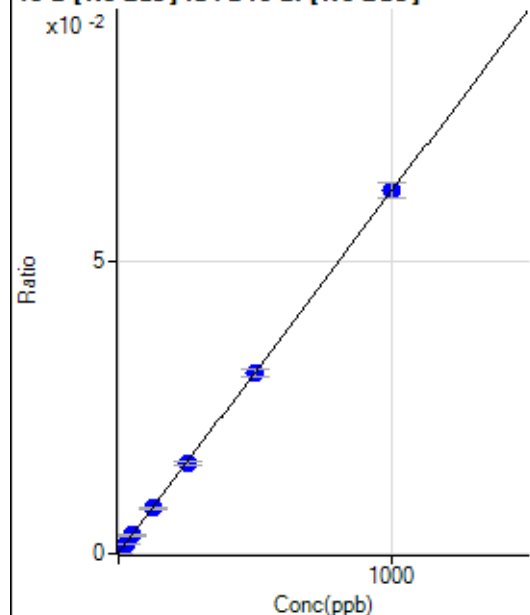
$$R = 0.9999$$

$$DL = 0.04639$$

$$BEC = 0.0576$$

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	216.67	0.0001	P	13.9
2	☐	25.000	25.095	4039.52	0.0016	P	5.9
3	☐	50.000	49.953	7857.79	0.0032	P	4.9
4	☐	125.000	125.208	19126.40	0.0078	P	4.3
5	☐	250.000	249.228	37519.23	0.0155	P	4.8
6	☐	500.000	498.553	73009.07	0.0310	P	4.6
7	☐	1000.000	1000.890	142377.72	0.0621	P	4.1
8	☐			5509.47	0.0025	P	14.2

$$y = 6.1933\text{E-}005 * x + 8.8915\text{E-}005$$

$$R = 1.0000$$

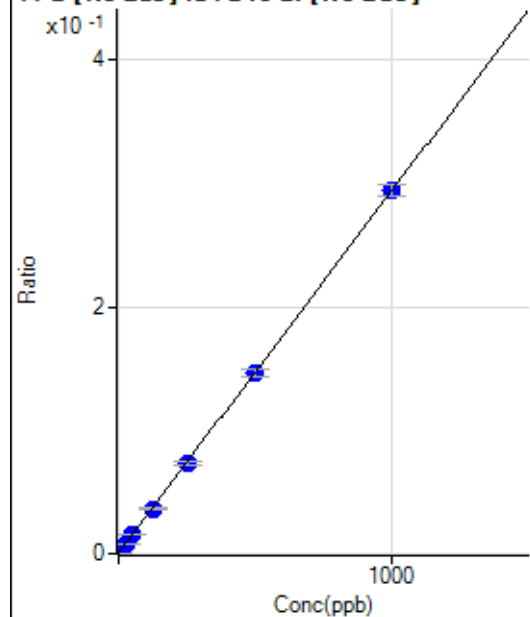
$$DL = 0.5997$$

$$BEC = 1.436$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1113.96	0.0005	P	11.8
2	☐	25.000	26.360	20141.63	0.0082	P	5.2
3	☐	50.000	49.882	37274.09	0.0151	P	3.5
4	☐	125.000	121.633	88164.45	0.0362	P	4.8
5	☐	250.000	248.907	177651.27	0.0735	P	4.8
6	☐	500.000	500.217	347206.78	0.1473	P	4.2
7	☐	1000.000	1000.557	674560.66	0.2941	P	3.3
8	☐			25892.20	0.0116	P	14.5

$$y = 2.9348\text{E-}004 * x + 4.5699\text{E-}004$$

$$R = 1.0000$$

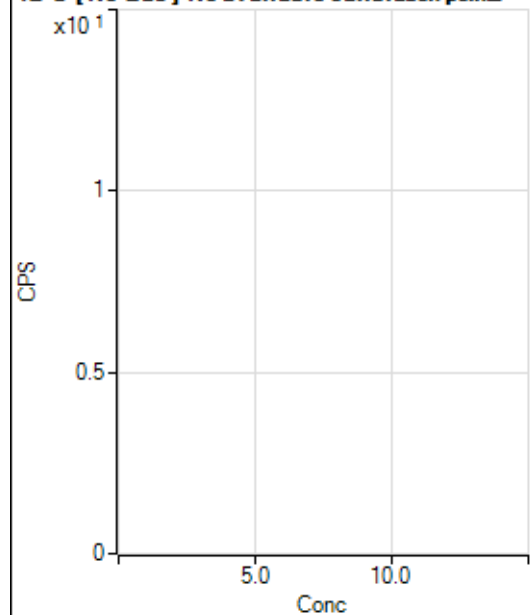
$$DL = 0.5509$$

$$BEC = 1.557$$

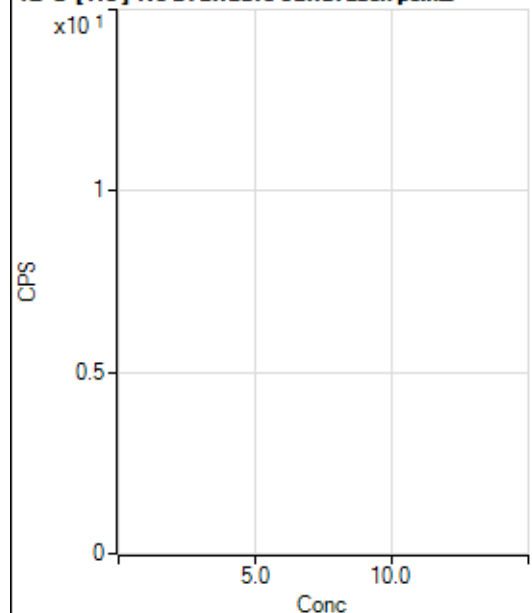
Weight: <None>

Min Conc: 0

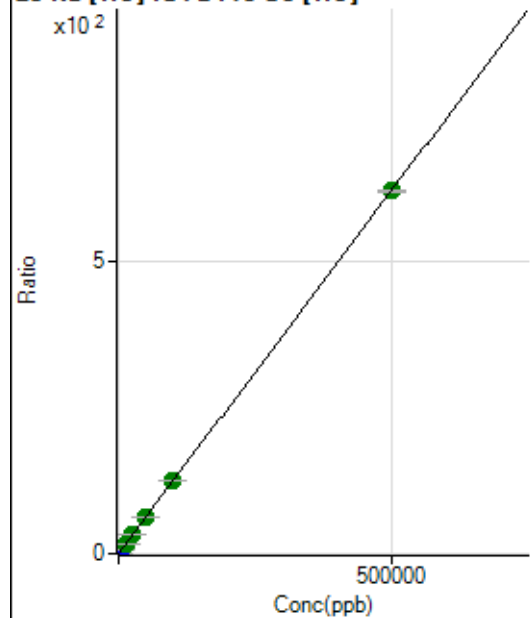
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9631.08	0.0282	P	1.4
2	☐	500.000	532.055	240136.22	0.6873	P	1.3
3	☐	5000.000	5132.026	2220990.44	6.3863	P	1.2
4	☐	12500.000	12782.648	5445087.58	15.8647	A	1.5
5	☐	25000.000	25628.705	10758499.20	31.7799	A	0.6
6	☐	50000.000	50888.445	21138106.55	63.0745	A	0.5
7	☐	100000.00	101010.98	41227949.88	125.1719	A	0.3
8	☐	500000.00	499669.10	208771496.3	619.0742	A	0.8

$$y = 0.0012 * x + 0.0282$$

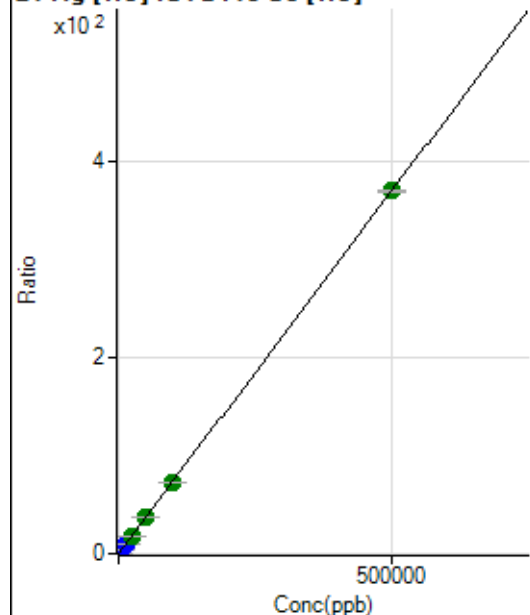
$$R = 1.0000$$

$$DL = 0.953$$

$$BEC = 22.73$$

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	294.46	0.0009	P	1.6
2	☐	500.000	512.369	132703.95	0.3798	P	0.5
3	☐	5000.000	5026.161	1293244.15	3.7185	P	1.0
4	☐	12500.000	12376.902	3142300.44	9.1554	P	0.5
5	☐	25000.000	24848.469	6222215.68	18.3801	A	0.5
6	☐	50000.000	49513.368	12273655.57	36.6235	A	0.3
7	☐	100000.00	97929.883	23857960.43	72.4348	A	0.3
8	☐	500000.00	500473.06	124833381.9	370.1763	A	0.3

$$y = 7.3965\text{E-}004 * x + 8.6081\text{E-}004$$

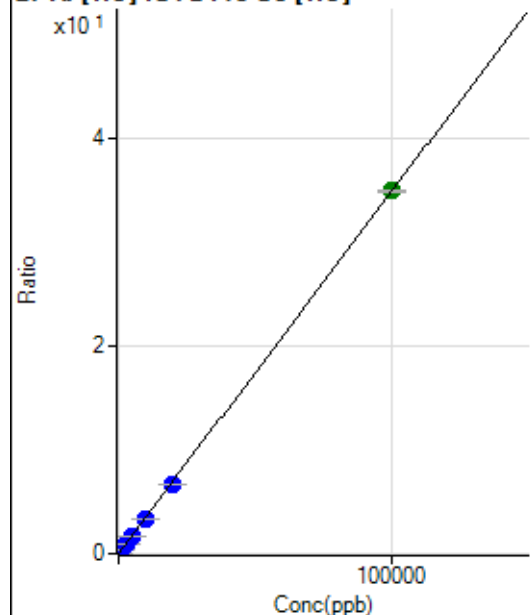
$$R = 1.0000$$

$$DL = 0.05587$$

$$BEC = 1.164$$

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	122.23	0.0004	P	27.8
2	☐	20.000	21.051	2686.42	0.0077	P	1.0
3	☐	1000.000	991.778	120253.78	0.3458	P	1.8
4	☐	2500.000	2459.095	294087.71	0.8568	P	0.9
5	☐	5000.000	4933.549	581817.03	1.7187	P	0.5
6	☐	10000.000	9716.146	1134207.99	3.3844	P	0.8
7	☐	20000.000	19212.808	2204110.03	6.6920	P	0.7
8	☐	100000.00	100190.25	11767776.65	34.8954	A	0.4

$$y = 3.4829\text{E-}004 * x + 3.5752\text{E-}004$$

$$R = 1.0000$$

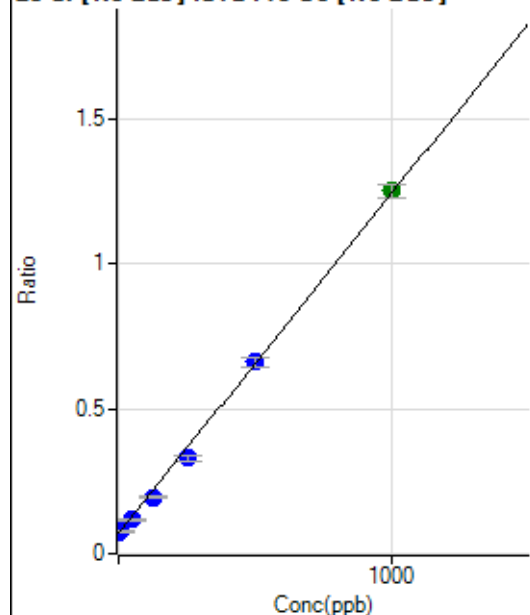
$$DL = 0.8561$$

$$BEC = 1.027$$

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	305641.17	0.0702	P	0.7
2	☐	10.000	5.482	341672.01	0.0767	P	1.3
3	☐	50.000	39.396	519047.22	0.1164	P	3.0
4	☐	125.000	105.005	854524.03	0.1933	P	4.0
5	☐	250.000	221.104	1447551.21	0.3293	P	5.1
6	☐	500.000	505.322	2845934.76	0.6623	P	5.2
7	☐	1000.000	1007.638	5216947.08	1.2507	A	3.9
8	☐			572124.04	0.1376	P	5.8

$$y = 0.0012 * x + 0.0702$$

$$R = 0.9995$$

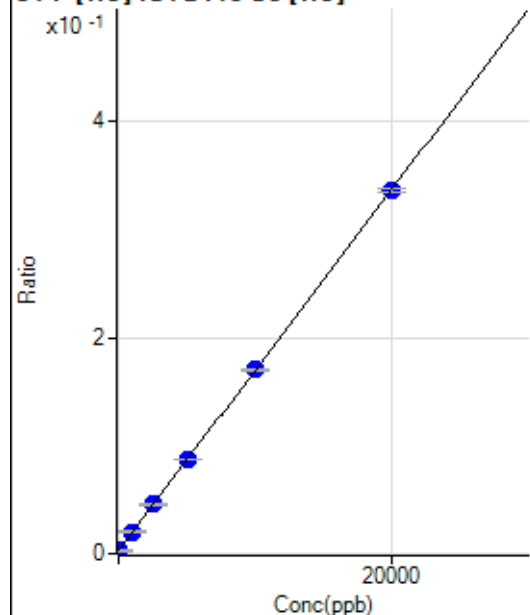
$$DL = 1.197$$

$$BEC = 59.95$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	6.087	975.05	0.0029	P	8.8
2	☐	0.000	-6.087	925.05	0.0026	P	3.0
3	☐	1000.000	1054.620	7082.40	0.0204	P	4.6
4	☐	2500.000	2555.477	15591.88	0.0454	P	3.6
5	☐	5000.000	5080.131	29652.21	0.0876	P	1.1
6	☐	10000.000	10047.505	57154.16	0.1705	P	1.4
7	☐	20000.000	19946.549	110620.94	0.3359	P	1.0
8	☐			911.16	0.0027	P	5.2

$$y = 1.6700E-005 * x + 0.0027$$

$$R = 1.0000$$

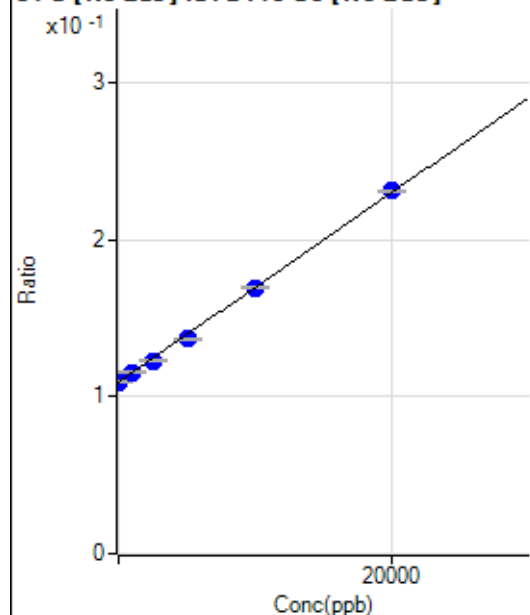
$$DL = 29.75$$

$$BEC = 164.6$$

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	25.861	476379.50	0.1095	P	0.3
2	☐	0.000	-25.861	486536.00	0.1092	P	0.8
3	☐	1000.000	986.589	514074.98	0.1153	P	1.0
4	☐	2500.000	2241.369	543122.45	0.1228	P	0.6
5	☐	5000.000	4551.739	601325.17	0.1367	P	0.9
6	☐	10000.000	9950.565	727405.09	0.1693	P	0.5
7	☐	20000.000	20169.782	962727.08	0.2308	P	0.5
8	☐			435510.41	0.1048	P	0.4

$$y = 6.0237E-006 * x + 0.1093$$

$$R = 0.9997$$

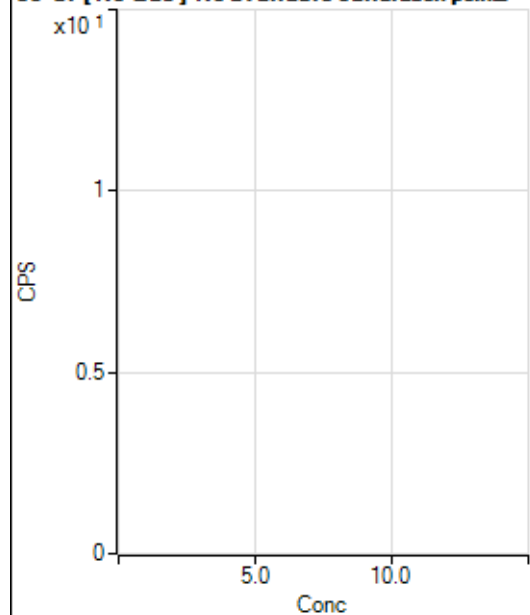
$$DL = 297.4$$

$$BEC = 1.815E+04$$

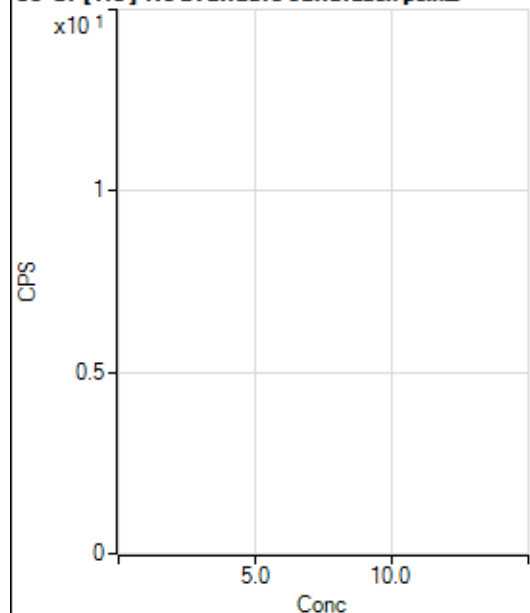
Weight: <None>

Min Conc: 0

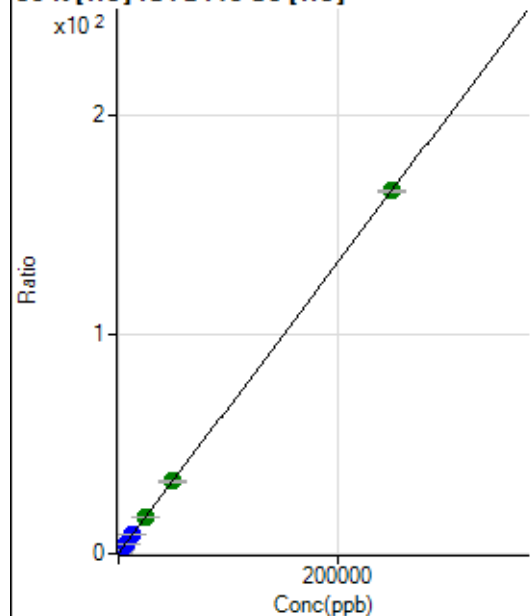
35 Cl [No Gas] No available calibration points



	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	47342.63	0.1384	P	1.2
2	☐	500.000	539.424	172869.09	0.4948	P	0.5
3	☐	2500.000	2672.191	662128.00	1.9039	P	1.2
4	☐	6250.000	6656.080	1556780.43	4.5360	P	0.7
5	☐	12500.000	13252.987	3011087.76	8.8946	P	0.6
6	☐	25000.000	25008.313	5583734.59	16.6612	A	0.8
7	☐	50000.000	49616.219	10842705.88	32.9195	A	0.4
8	☐	250000.00	250026.32	55753866.52	165.3290	A	0.5

$$y = 6.6069E-004 * x + 0.1384$$

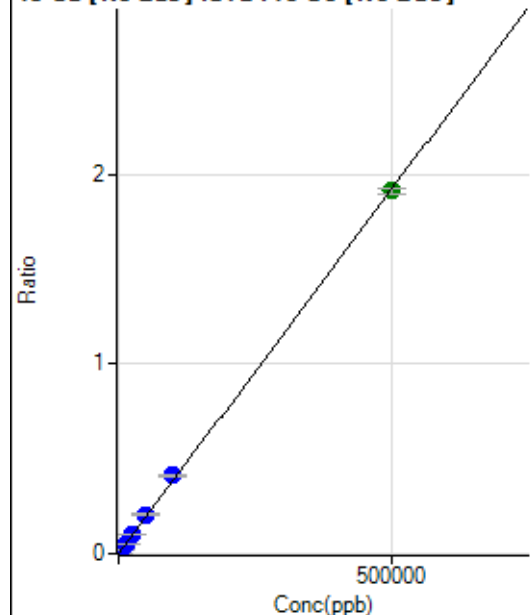
$$R = 1.0000$$

$$DL = 7.383$$

$$BEC = 209.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	175.01	0.0000	P	4.3
2	☐	500.000	548.223	9575.54	0.0021	P	0.6
3	☐	5000.000	5519.046	94835.64	0.0213	P	1.1
4	☐	12500.000	13556.004	230688.13	0.0522	P	1.5
5	☐	25000.000	26997.555	456709.44	0.1039	P	1.3
6	☐	50000.000	53896.716	890860.74	0.2073	P	0.9
7	☐	100000.00	107170.62	1719084.11	0.4121	P	0.9
8	☐	500000.00	498044.68	7960067.45	1.9152	A	1.3

$$y = 3.8453\text{E-}006 * x + 4.0210\text{E-}005$$

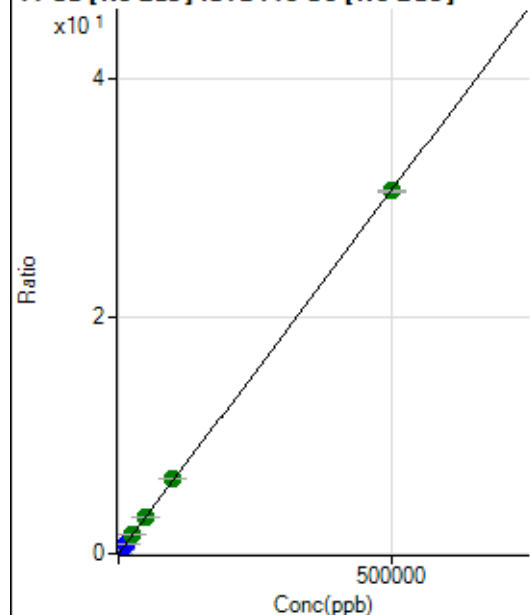
$$R = 0.9999$$

$$DL = 1.336$$

$$BEC = 10.46$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8915.13	0.0020	P	4.3
2	☐	500.000	547.627	158700.33	0.0356	P	0.5
3	☐	5000.000	5376.283	1478503.20	0.3315	P	1.1
4	☐	12500.000	13288.537	3609846.58	0.8163	P	1.8
5	☐	25000.000	25479.432	6875487.54	1.5634	A	0.6
6	☐	50000.000	50836.662	13396391.35	3.1172	A	1.4
7	☐	100000.00	102295.12	26154099.22	6.2704	A	0.7
8	☐	500000.00	499409.81	127201437.4	30.6045	A	0.6

$$y = 6.1277\text{E-}005 * x + 0.0020$$

$$R = 1.0000$$

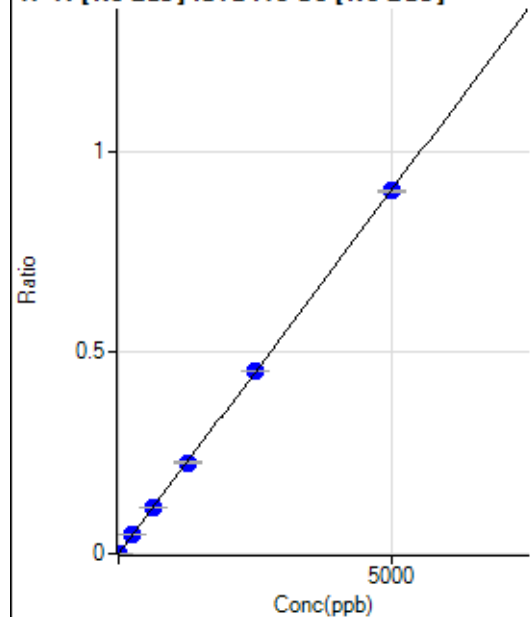
$$DL = 4.329$$

$$BEC = 33.44$$

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	83.34	0.0000	P	26.7
2	☐	5.000	5.561	4564.73	0.0010	P	4.9
3	☐	250.000	253.894	204725.75	0.0459	P	1.9
4	☐	625.000	635.109	507660.42	0.1148	P	0.8
5	☐	1250.000	1250.003	993539.90	0.2259	P	1.3
6	☐	2500.000	2515.016	1953498.33	0.4545	P	0.3
7	☐	5000.000	4991.033	3762386.28	0.9020	P	0.9
8	☐			1236.20	0.0003	P	7.7

$$y = 1.8072\text{E-}004 * x + 1.9161\text{E-}005$$

$$R = 1.0000$$

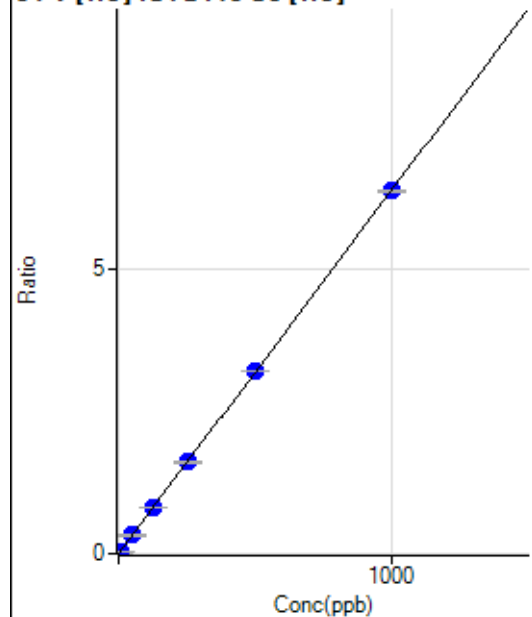
$$DL = 0.08507$$

$$BEC = 0.106$$

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	16.67	0.0000	P	86.9
2	☐	5.000	5.385	11997.18	0.0343	P	2.6
3	☐	50.000	50.626	112129.06	0.3224	P	1.8
4	☐	125.000	126.338	276135.14	0.8045	P	1.0
5	☐	250.000	252.284	543871.55	1.6066	P	0.8
6	☐	500.000	500.954	1069079.64	3.1901	P	0.1
7	☐	1000.000	998.752	2094768.21	6.3600	P	0.6
8	☐			454.46	0.0013	P	13.0

$$y = 0.0064 * x + 4.8627\text{E-}005$$

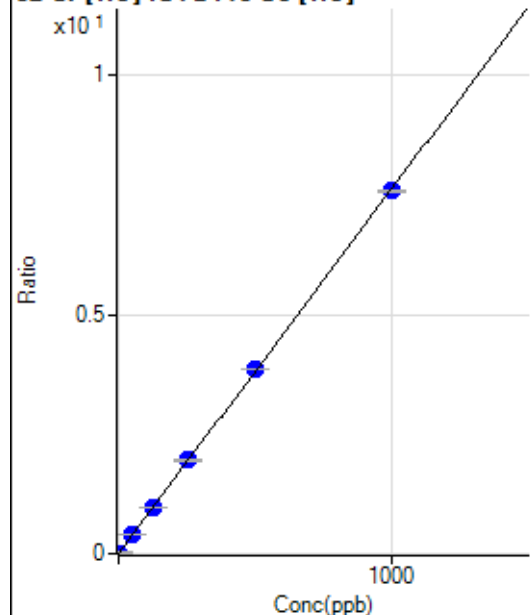
$$R = 1.0000$$

$$DL = 0.0199$$

$$BEC = 0.007636$$

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	1210.06	0.0035	P	3.7
2	☐	2.000	2.160	6986.16	0.0200	P	1.9
3	☐	50.000	51.326	137224.01	0.3946	P	0.8
4	☐	125.000	127.666	335033.96	0.9762	P	0.3
5	☐	250.000	256.005	661459.62	1.9539	P	0.6
6	☐	500.000	505.578	1292004.49	3.8553	P	0.2
7	☐	1000.000	995.310	2498664.65	7.5862	P	0.6
8	☐			6178.03	0.0183	P	2.0

$$y = 0.0076 * x + 0.0035$$

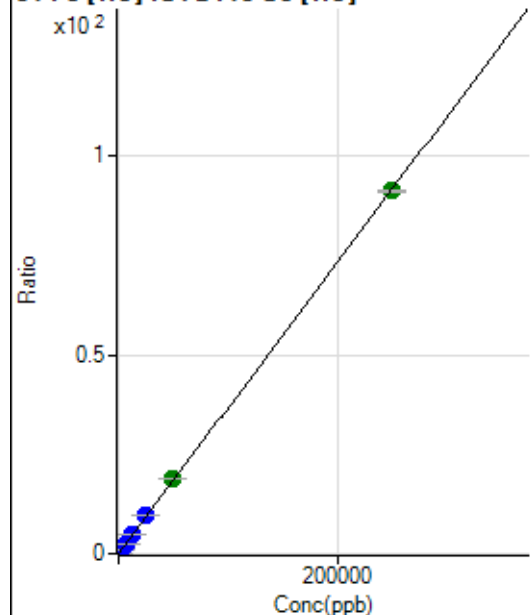
$$R = 1.0000$$

$$DL = 0.05211$$

$$BEC = 0.4643$$

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	827.54	0.0024	P	16.6
2	☐	50.000	58.584	8337.63	0.0239	P	1.6
3	☐	2500.000	2700.246	344622.65	0.9909	P	0.4
4	☐	6250.000	6744.052	848133.60	2.4712	P	0.8
5	☐	12500.000	13369.446	1657638.75	4.8965	P	0.5
6	☐	25000.000	26453.678	3246146.79	9.6862	P	0.1
7	☐	50000.000	51778.041	6243682.32	18.9567	A	0.8
8	☐	250000.00	249441.19	30794110.94	91.3147	A	0.9

$$y = 3.6607E-004 * x + 0.0024$$

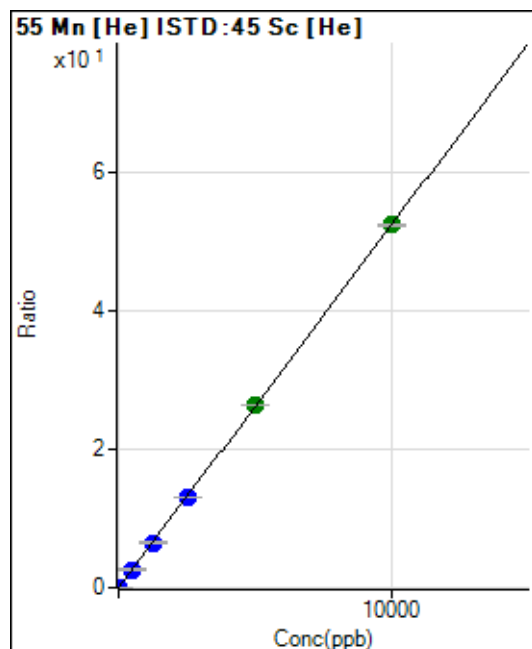
$$R = 1.0000$$

$$DL = 3.299$$

$$BEC = 6.606$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.56	0.0006	P	6.1
2	☐	1.000	1.034	2106.84	0.0060	P	3.3
3	☐	500.000	502.861	918254.31	2.6403	P	0.6
4	☐	1250.000	1242.510	2238717.54	6.5229	P	0.9
5	☐	2500.000	2474.240	4397051.25	12.9886	P	0.7
6	☐	5000.000	5014.672	8821977.65	26.3241	A	0.2
7	☐	10000.000	9999.897	17289691.82	52.4931	A	0.4
8	☐			8644.83	0.0256	P	0.6

$$y = 0.0052 * x + 6.0103E-004$$

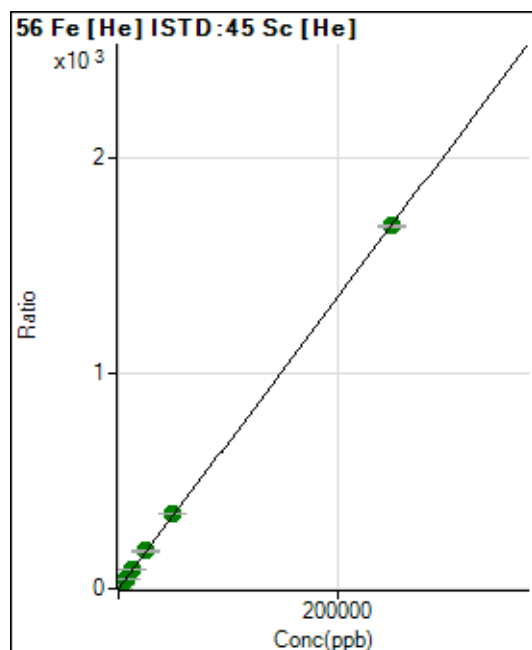
$$R = 1.0000$$

$$DL = 0.02094$$

$$BEC = 0.1145$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5008.35	0.0146	P	2.9
2	☐	50.000	55.242	135177.76	0.3869	P	0.5
3	☐	2500.000	2619.817	6145399.04	17.6695	A	0.5
4	☐	6250.000	6463.370	14953252.30	43.5712	A	2.1
5	☐	12500.000	12986.043	29631040.47	87.5274	A	0.2
6	☐	25000.000	25817.984	58313906.86	174.0016	A	1.0
7	☐	50000.000	51514.806	114347196.0	347.1720	A	0.7
8	☐	250000.00	249584.40	567201134.9	1,681.959	A	0.2

$$y = 0.0067 * x + 0.0146$$

$$R = 1.0000$$

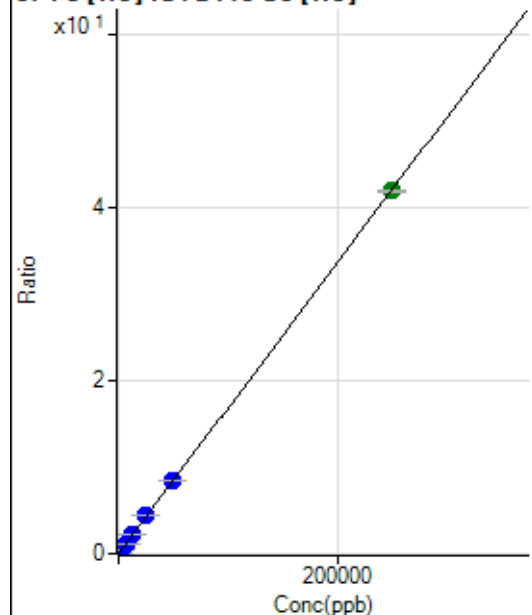
$$DL = 0.1903$$

$$BEC = 2.173$$

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	185.19	0.0005	P	15.4
2	☐	50.000	54.989	3409.71	0.0098	P	3.3
3	☐	2500.000	2646.097	154477.95	0.4442	P	1.0
4	☐	6250.000	6534.231	376147.71	1.0960	P	1.1
5	☐	12500.000	13072.981	742135.87	2.1922	P	0.5
6	☐	25000.000	25896.530	1455171.68	4.3421	P	0.5
7	☐	50000.000	50901.997	2810956.11	8.5342	P	0.2
8	☐	250000.00	249692.73	14116821.61	41.8615	A	0.8

$$y = 1.6765E-004 * x + 5.4141E-004$$

$$R = 1.0000$$

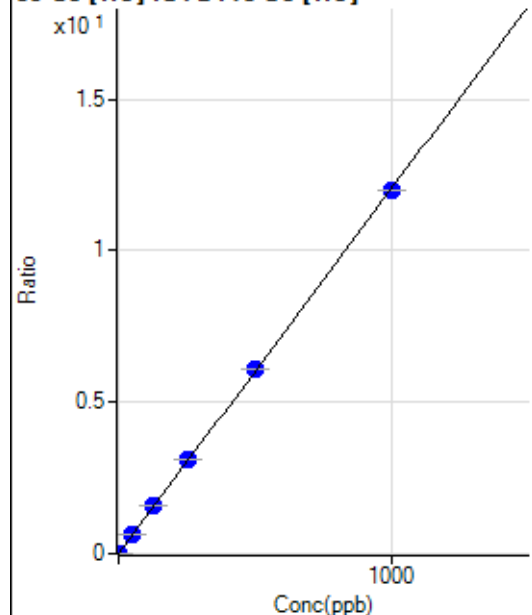
$$DL = 1.493$$

$$BEC = 3.229$$

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	221.11	0.0006	P	14.9
2	☐	1.000	1.064	4704.13	0.0135	P	2.7
3	☐	50.000	51.931	217817.84	0.6263	P	0.4
4	☐	125.000	129.516	535747.33	1.5610	P	0.4
5	☐	250.000	257.113	1048847.02	3.0982	P	0.3
6	☐	500.000	507.314	2048485.23	6.1125	P	0.1
7	☐	1000.000	993.904	3944161.19	11.9747	P	0.1
8	☐			6126.89	0.0182	P	4.7

$$y = 0.0120 * x + 6.4665E-004$$

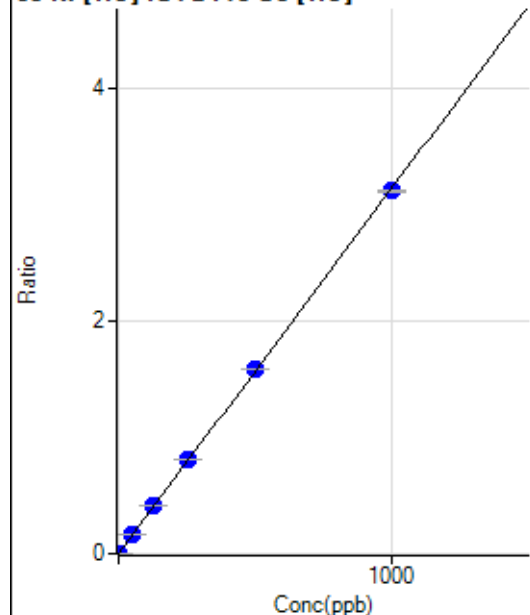
$$R = 0.9999$$

$$DL = 0.02394$$

$$BEC = 0.05368$$

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	60.00	0.0002	P	9.5
2	☐	1.000	1.166	1337.85	0.0038	P	7.5
3	☐	50.000	52.626	57437.36	0.1651	P	1.0
4	☐	125.000	129.637	139531.05	0.4066	P	0.7
5	☐	250.000	258.013	273864.45	0.8090	P	1.0
6	☐	500.000	506.891	532578.98	1.5892	P	0.4
7	☐	1000.000	993.840	1026202.18	3.1156	P	0.6
8	☐			1682.34	0.0050	P	4.1

$$y = 0.0031 * x + 1.7541E-004$$

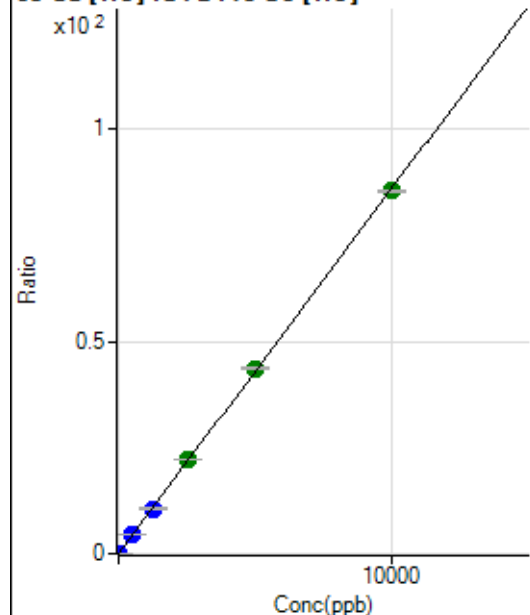
$$R = 0.9999$$

$$DL = 0.01602$$

$$BEC = 0.05595$$

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	781.14	0.0023	P	9.0
2	☐	2.000	2.062	6988.40	0.0200	P	1.8
3	☐	500.000	503.998	1506966.25	4.3330	P	0.5
4	☐	1250.000	1236.787	3648238.00	10.6296	P	0.3
5	☐	2500.000	2571.836	7482010.03	22.1014	A	0.4
6	☐	5000.000	5082.834	14637774.64	43.6777	A	0.5
7	☐	10000.000	9942.076	28138294.86	85.4318	A	0.9
8	☐			6806.10	0.0202	P	5.5

$$y = 0.0086 * x + 0.0023$$

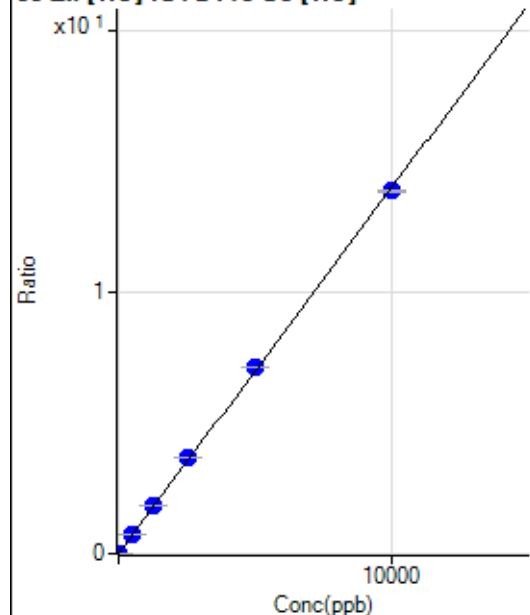
$$R = 0.9999$$

$$DL = 0.07199$$

$$BEC = 0.2658$$

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	260.01	0.0008	P	15.9
2	☐	2.000	2.505	1490.09	0.0043	P	4.0
3	☐	500.000	527.930	257085.47	0.7392	P	0.3
4	☐	1250.000	1312.031	630121.41	1.8359	P	0.2
5	☐	2500.000	2613.338	1237708.61	3.6561	P	0.6
6	☐	5000.000	5088.562	2385552.66	7.1183	P	0.2
7	☐	10000.000	9918.234	4569579.03	13.8737	P	0.6
8	☐			4696.35	0.0139	P	3.3

$$y = 0.0014 * x + 7.6036E-004$$

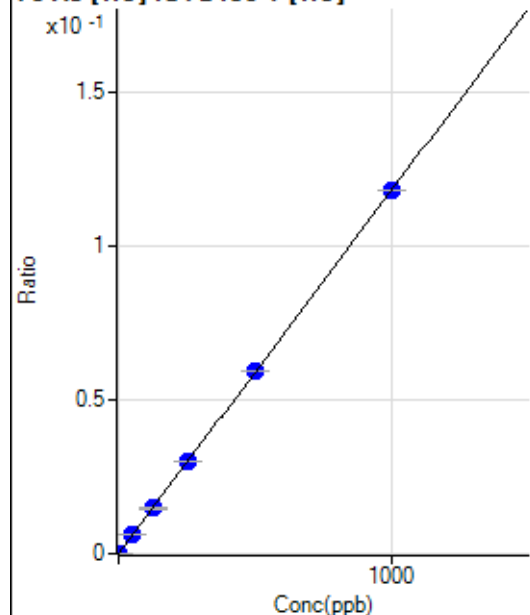
$$R = 0.9999$$

$$DL = 0.2592$$

$$BEC = 0.5436$$

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	38.7
2	☐	1.000	1.147	353.09	0.0001	P	7.9
3	☐	50.000	50.611	15103.54	0.0060	P	1.1
4	☐	125.000	125.009	37033.36	0.0147	P	1.2
5	☐	250.000	253.528	74001.56	0.0299	P	0.3
6	☐	500.000	501.038	144499.16	0.0591	P	0.3
7	☐	1000.000	998.567	284001.34	0.1177	P	0.2
8	☐			119.76	0.0000	P	3.9

$$y = 1.1791E-004 * x + 3.9737E-006$$

$$R = 1.0000$$

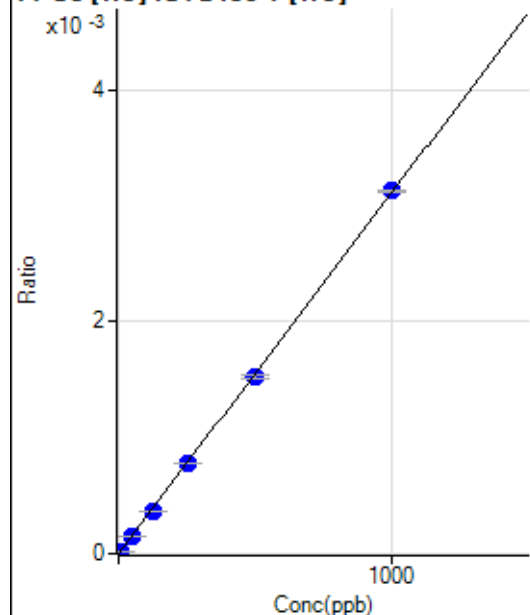
$$DL = 0.0391$$

$$BEC = 0.0337$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.759	53.33	0.0000	P	22.6
3	☐	50.000	47.739	375.56	0.0001	P	9.2
4	☐	125.000	116.267	908.93	0.0004	P	1.5
5	☐	250.000	250.892	1932.37	0.0008	P	1.7
6	☐	500.000	489.771	3727.19	0.0015	P	2.4
7	☐	1000.000	1006.087	7550.92	0.0031	P	0.5
8	☐			2.22	0.0000	P	86.6

$$y = 3.1117\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

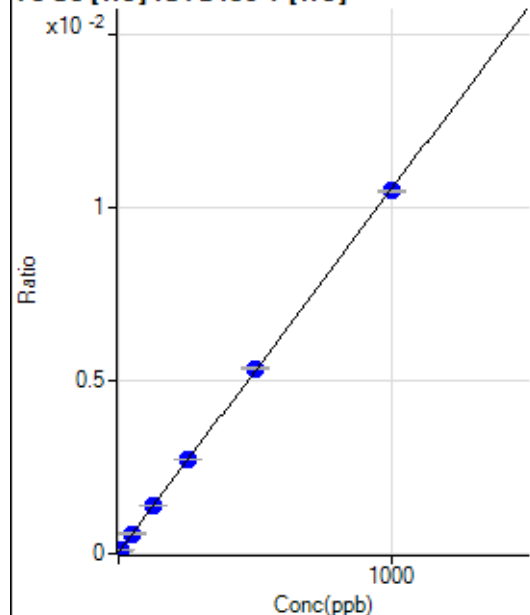
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	98.77	0.0000	P	13.1
2	☐	5.000	6.675	278.40	0.0001	P	6.0
3	☐	50.000	50.473	1438.97	0.0006	P	7.4
4	☐	125.000	129.160	3501.67	0.0014	P	2.2
5	☐	250.000	255.825	6738.01	0.0027	P	1.7
6	☐	500.000	506.037	13075.03	0.0053	P	1.2
7	☐	1000.000	994.973	25260.23	0.0105	P	0.7
8	☐			113.58	0.0000	P	17.2

$$y = 1.0486\text{E-}005 * x + 3.9787\text{E-}005$$

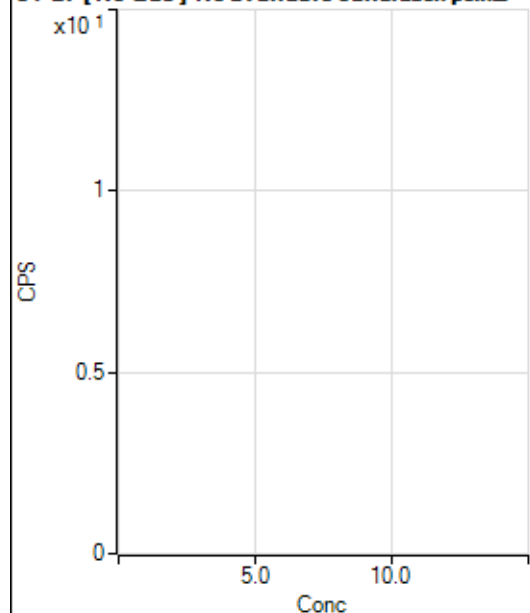
$$R = 1.0000$$

$$DL = 1.494$$

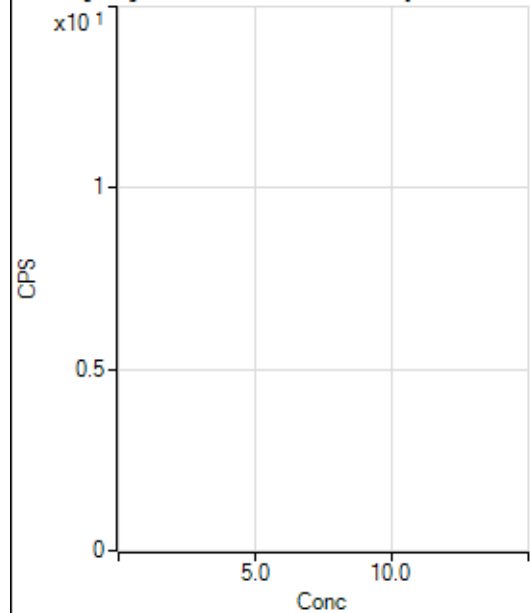
$$BEC = 3.794$$

Weight: <None>

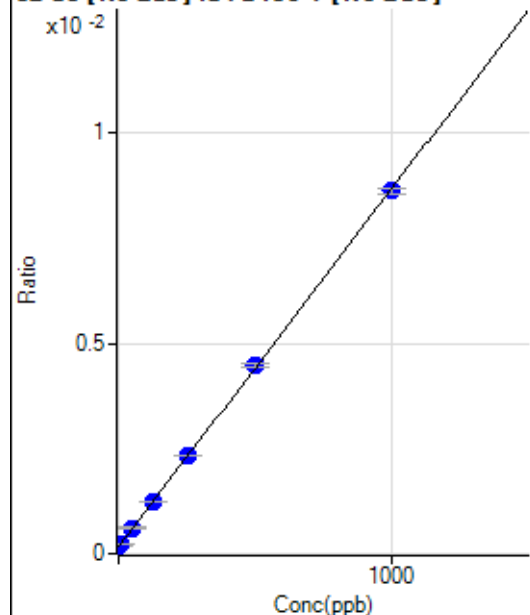
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4687.01		P	4.8
2	☐			4656.45		P	10.8
3	☐			4598.08		P	2.8
4	☐			4650.85		P	0.6
5	☐			4589.74		P	3.4
6	☐			4617.55		P	3.0
7	☐			4503.59		P	3.3
8	☐			4539.76		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			73.41		P	20.8
2	☐			80.08		P	12.5
3	☐			40.04		P	50.0
4	☐			63.40		P	63.8
5	☐			56.72		P	27.0
6	☐			73.41		P	20.8
7	☐			73.41		P	43.8
8	☐			50.05		P	52.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1801.99	0.0002	P	1.6
2	☐	5.000	5.284	2346.80	0.0002	P	1.5
3	☐	50.000	51.851	6851.79	0.0006	P	5.2
4	☐	125.000	127.237	14165.12	0.0012	P	0.9
5	☐	250.000	254.687	26294.24	0.0023	P	1.2
6	☐	500.000	507.592	49908.90	0.0045	P	1.2
7	☐	1000.000	994.659	94656.72	0.0086	P	1.9
8	☐			1720.64	0.0002	P	1.1

$$y = 8.5020\text{E-}006 * x + 1.6235\text{E-}004$$

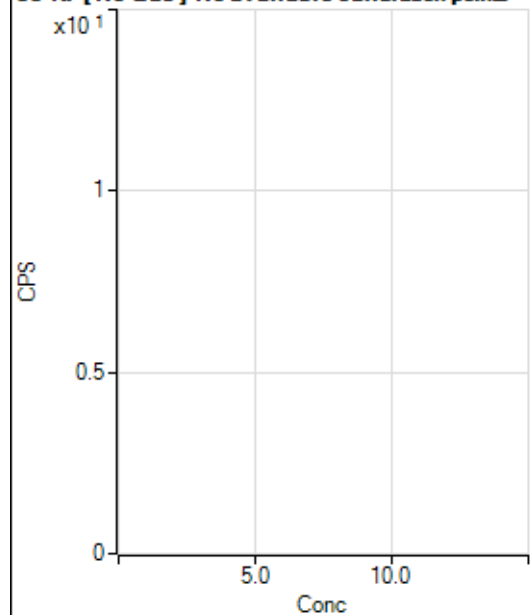
$$R = 0.9999$$

$$DL = 0.9343$$

$$BEC = 19.09$$

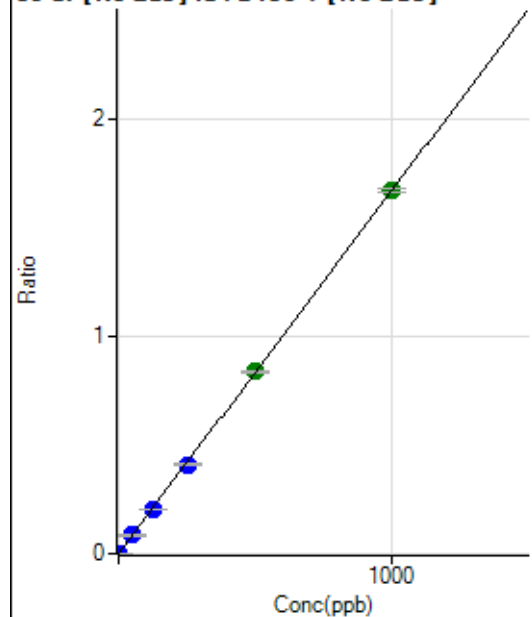
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1883.48		P	3.4
2	☐			1804.58		P	2.6
3	☐			1867.92		P	5.6
4	☐			1831.24		P	6.1
5	☐			1771.24		P	5.4
6	☐			1817.92		P	4.1
7	☐			1695.67		P	4.4
8	☐			1667.89		P	4.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3144.87	0.0003	P	2.0
2	☐	1.000	0.094	4984.34	0.0004	P	6.0
3	☐	50.000	50.325	956694.12	0.0842	P	2.1
4	☐	125.000	122.994	2338268.28	0.2054	P	0.6
5	☐	250.000	245.619	4629519.77	0.4098	P	1.0
6	☐	500.000	502.020	9332563.84	0.8373	A	1.3
7	☐	1000.000	1000.321	18322353.53	1.6682	A	1.0
8	☐			10871.06	0.0010	P	6.6

$$y = 0.0017 * x + 2.8334E-004$$

$$R = 1.0000$$

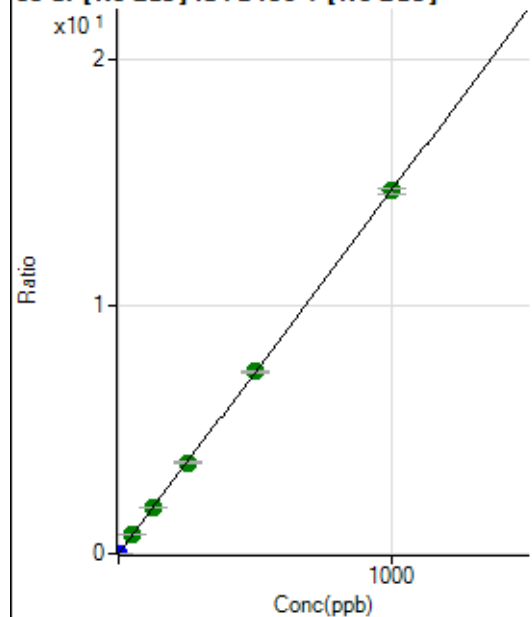
$$DL = 0.01018$$

$$BEC = 0.1699$$

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	1055.63	0.0001	P	8.8
2	☐	1.000	0.097	17274.70	0.0015	P	1.8
3	☐	50.000	50.823	8482500.97	0.7464	A	1.3
4	☐	125.000	124.807	20868632.41	1.8329	A	0.4
5	☐	250.000	250.842	41612428.71	3.6838	A	1.4
6	☐	500.000	501.083	82016565.72	7.3586	A	1.2
7	☐	1000.000	999.232	161163161.9	14.6741	A	1.5
8	☐			70528.82	0.0065	P	3.9

$$y = 0.0147 * x + 9.5111E-005$$

$$R = 1.0000$$

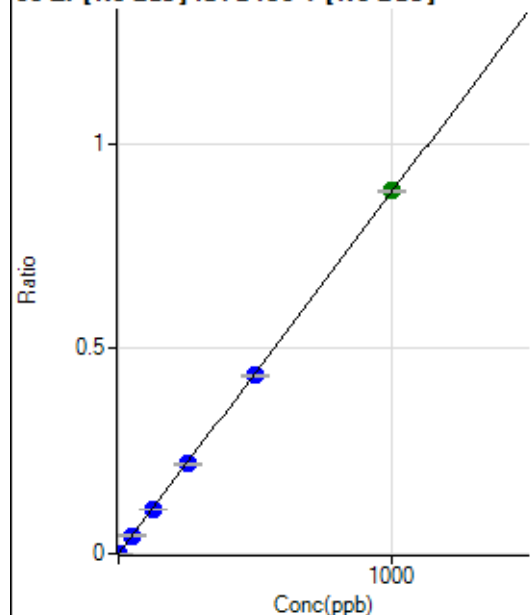
$$DL = 0.001703$$

$$BEC = 0.006477$$

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	688.93	0.0001	P	3.9
2	☐	1.000	1.036	11035.14	0.0010	P	1.4
3	☐	50.000	50.350	504755.03	0.0444	P	1.6
4	☐	125.000	124.116	1245624.65	0.1094	P	0.7
5	☐	250.000	248.122	2469971.22	0.2186	P	0.8
6	☐	500.000	493.199	4843371.59	0.4346	P	1.1
7	☐	1000.000	1003.963	9715278.34	0.8845	A	0.7
8	☐			3981.19	0.0004	P	4.4

$$y = 8.8097E-004 * x + 6.2064E-005$$

$$R = 1.0000$$

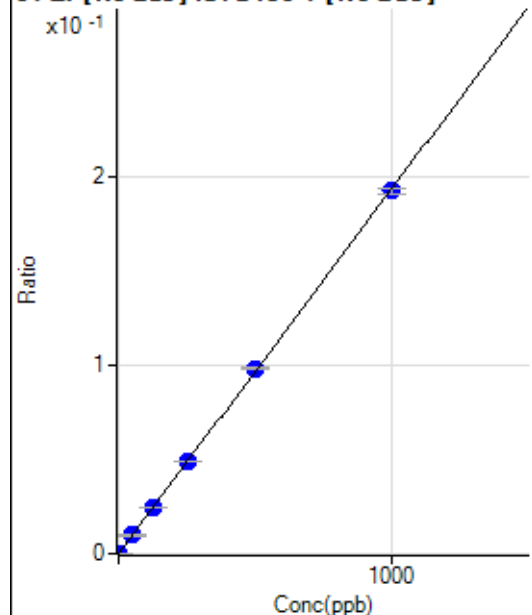
$$DL = 0.008273$$

$$BEC = 0.07045$$

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	105.56	0.0000	P	4.4
2	☐	1.000	1.070	2453.05	0.0002	P	3.1
3	☐	50.000	50.512	111234.32	0.0098	P	2.2
4	☐	125.000	126.093	278068.97	0.0244	P	0.6
5	☐	250.000	253.810	555242.44	0.0492	P	0.6
6	☐	500.000	506.999	1094199.95	0.0982	P	1.2
7	☐	1000.000	995.386	2116670.88	0.1927	P	1.8
8	☐			805.60	0.0001	P	3.5

$$y = 1.9362E-004 * x + 9.5101E-006$$

$$R = 1.0000$$

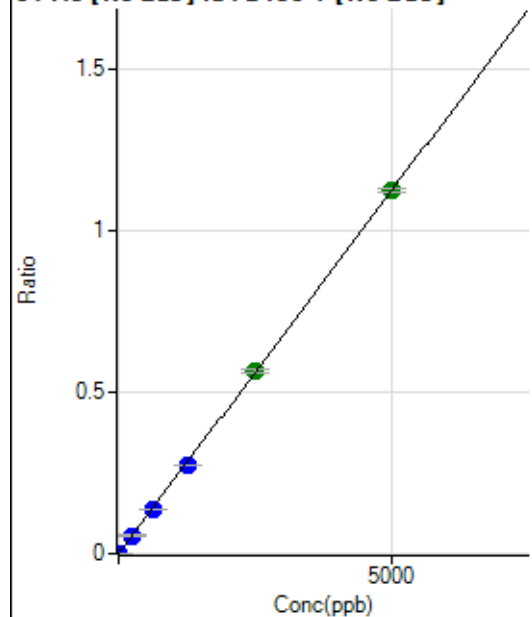
$$DL = 0.006485$$

$$BEC = 0.04912$$

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	300.01	0.0000	P	21.1
2	☐	5.000	5.081	13250.91	0.0012	P	0.6
3	☐	250.000	249.203	637482.53	0.0561	P	2.0
4	☐	625.000	615.986	1578356.31	0.1386	P	0.9
5	☐	1250.000	1224.571	3113049.77	0.2756	P	0.8
6	☐	2500.000	2516.793	6312107.95	0.5663	A	1.7
7	☐	5000.000	4999.127	12355031.09	1.1249	A	1.2
8	☐			4723.12	0.0004	P	8.9

$$y = 2.2502E-004 * x + 2.7033E-005$$

$$R = 1.0000$$

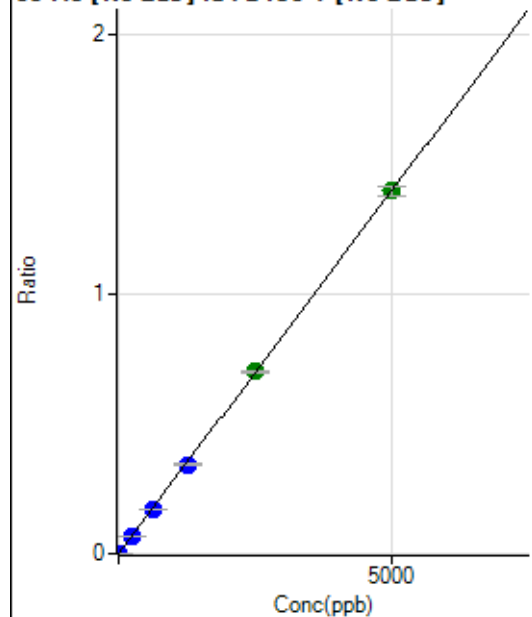
$$DL = 0.076$$

$$BEC = 0.1201$$

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	88.89	0.0000	P	19.7
2	☐	5.000	5.076	16162.26	0.0014	P	0.3
3	☐	250.000	248.846	790737.73	0.0696	P	2.3
4	☐	625.000	615.962	1961041.04	0.1722	P	0.8
5	☐	1250.000	1228.019	3879131.25	0.3434	P	0.8
6	☐	2500.000	2509.372	7820487.07	0.7017	A	1.6
7	☐	5000.000	5001.997	15359910.24	1.3987	A	2.5
8	☐			5690.19	0.0005	P	6.4

$$y = 2.7962E-004 * x + 8.0104E-006$$

$$R = 1.0000$$

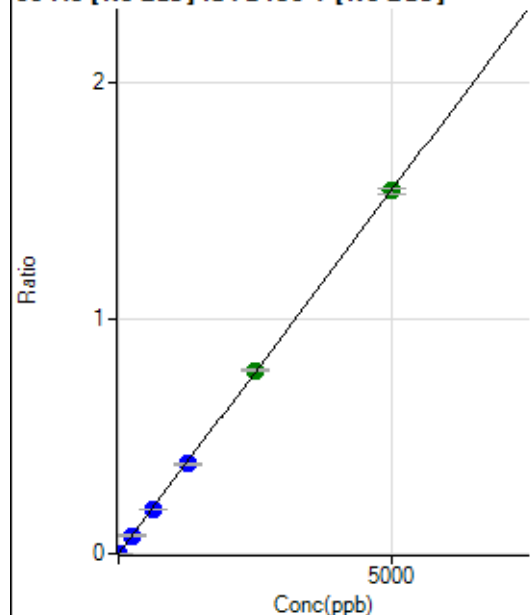
$$DL = 0.01692$$

$$BEC = 0.02865$$

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	230.56	0.0000	P	37.3
2	☐	5.000	4.960	17566.72	0.0016	P	1.2
3	☐	250.000	250.783	879731.61	0.0774	P	2.2
4	☐	625.000	618.897	2175027.20	0.1910	P	0.9
5	☐	1250.000	1233.260	4300021.67	0.3807	P	1.0
6	☐	2500.000	2522.701	8678325.45	0.7786	A	1.0
7	☐	5000.000	4993.559	16926910.97	1.5412	A	1.5
8	☐			7374.33	0.0007	P	6.9

$$y = 3.0864E-004 * x + 2.0779E-005$$

$$R = 1.0000$$

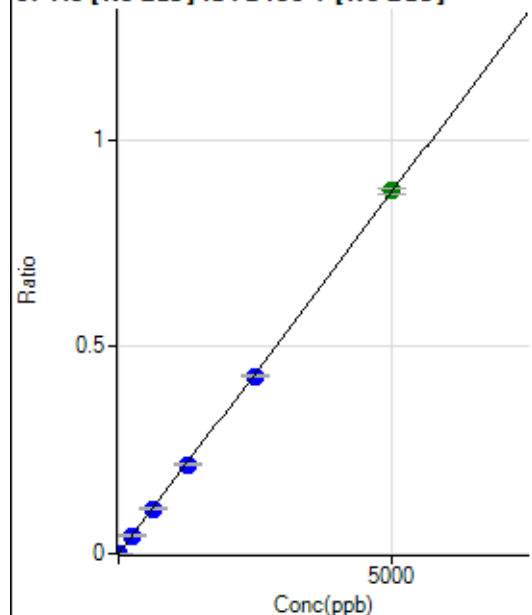
$$DL = 0.07528$$

$$BEC = 0.06732$$

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	69.45	0.0000	P	36.9
2	☐	5.000	4.959	9864.81	0.0009	P	1.6
3	☐	250.000	252.554	500662.43	0.0441	P	1.8
4	☐	625.000	622.958	1237254.34	0.1087	P	1.4
5	☐	1250.000	1237.497	2438482.04	0.2159	P	1.2
6	☐	2500.000	2457.743	4778256.31	0.4287	P	1.3
7	☐	5000.000	5024.382	9625356.99	0.8764	A	1.6
8	☐			3811.71	0.0004	P	9.2

$$y = 1.7443E-004 * x + 6.2627E-006$$

$$R = 0.9999$$

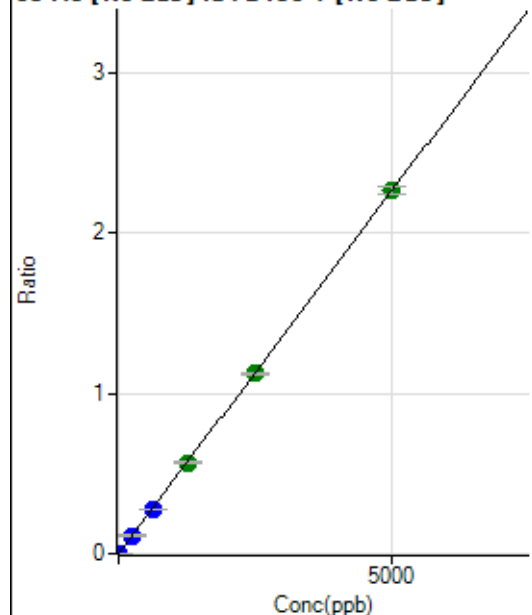
$$DL = 0.03979$$

$$BEC = 0.0359$$

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	213.90	0.0000	P	17.6
2	☐	5.000	5.050	26079.74	0.0023	P	2.0
3	☐	250.000	249.995	1284985.57	0.1131	P	2.6
4	☐	625.000	615.107	3167852.63	0.2782	P	0.5
5	☐	1250.000	1249.073	6381871.80	0.5650	A	1.8
6	☐	2500.000	2491.954	12562818.86	1.1271	A	1.0
7	☐	5000.000	5005.492	24863953.16	2.2640	A	2.0
8	☐			9100.36	0.0008	P	4.4

$$y = 4.5230\text{E-}004 * x + 1.9270\text{E-}005$$

$$R = 1.0000$$

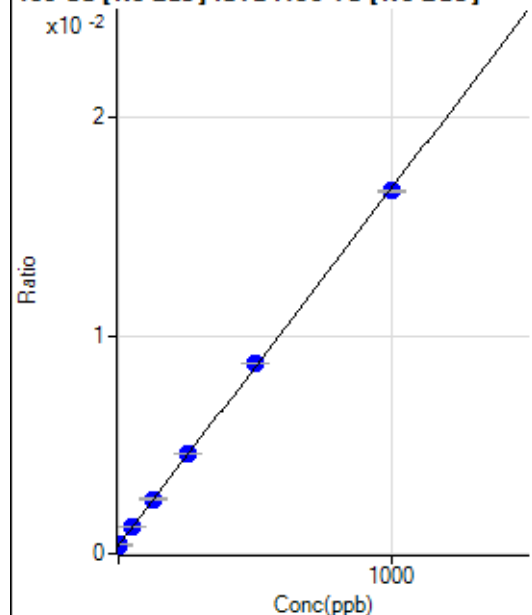
$$DL = 0.02245$$

$$BEC = 0.04261$$

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	3978.46	0.0004	P	2.5
2	☐	1.000	3.429	4659.22	0.0004	P	6.7
3	☐	50.000	51.911	13295.41	0.0012	P	1.6
4	☐	125.000	130.048	27003.92	0.0025	P	1.9
5	☐	250.000	257.833	50004.89	0.0046	P	1.1
6	☐	500.000	509.246	94110.84	0.0087	P	0.5
7	☐	1000.000	992.690	178498.61	0.0167	P	0.8
8	☐			4067.36	0.0004	P	4.6

$$y = 1.6401\text{E-}005 * x + 3.7559\text{E-}004$$

$$R = 0.9999$$

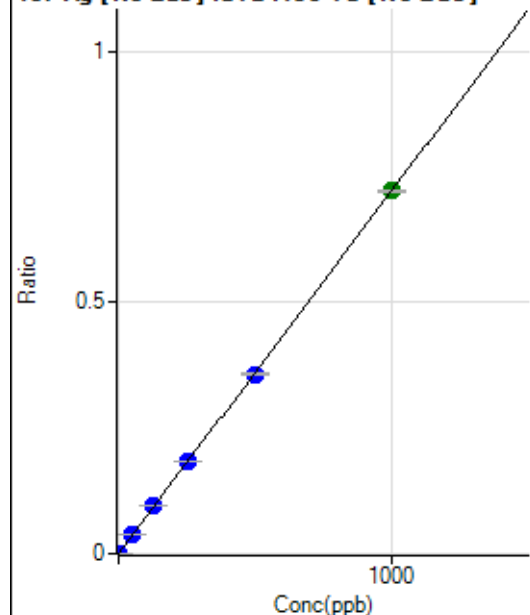
$$DL = 1.69$$

$$BEC = 22.9$$

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	83.33	0.0000	P	55.8
2	☐	1.000	1.064	8372.13	0.0008	P	6.0
3	☐	50.000	52.668	412241.63	0.0381	P	2.2
4	☐	125.000	130.486	1014880.24	0.0943	P	0.3
5	☐	250.000	254.648	1998075.63	0.1840	P	1.4
6	☐	500.000	495.199	3857667.71	0.3578	P	0.5
7	☐	1000.000	1000.420	7745298.00	0.7228	A	0.3
8	☐			3292.14	0.0003	P	7.3

$$y = 7.2247\text{E-}004 * x + 7.8848\text{E-}006$$

$$R = 1.0000$$

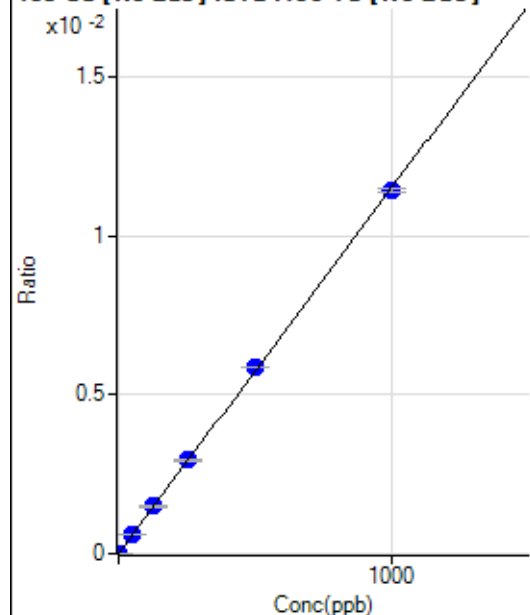
$$DL = 0.01828$$

$$BEC = 0.01091$$

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	22.22	0.0000	P	46.4
2	☐	1.000	1.216	173.62	0.0000	P	9.0
3	☐	50.000	53.256	6664.14	0.0006	P	3.5
4	☐	125.000	129.233	16035.58	0.0015	P	0.8
5	☐	250.000	255.121	31914.98	0.0029	P	1.4
6	☐	500.000	511.266	63478.36	0.0059	P	0.3
7	☐	1000.000	992.395	122434.81	0.0114	P	1.1
8	☐			140.28	0.0000	P	7.6

$$y = 1.1511\text{E-}005 * x + 2.0936\text{E-}006$$

$$R = 0.9999$$

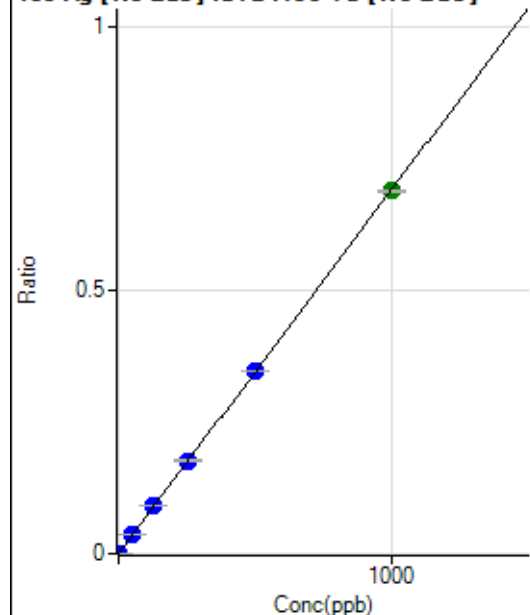
$$DL = 0.2531$$

$$BEC = 0.1819$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.45	0.0000	P	29.8
2	☐	1.000	1.077	8077.52	0.0007	P	0.5
3	☐	50.000	52.658	394315.87	0.0364	P	2.4
4	☐	125.000	130.976	974622.27	0.0905	P	0.6
5	☐	250.000	256.103	1922622.70	0.1770	P	1.1
6	☐	500.000	500.782	3732566.84	0.3462	P	0.1
7	☐	1000.000	997.203	7386574.21	0.6893	A	0.5
8	☐			3200.45	0.0003	P	5.7

$$y = 6.9124\text{E-}004 * x + 4.2048\text{E-}006$$

$$R = 1.0000$$

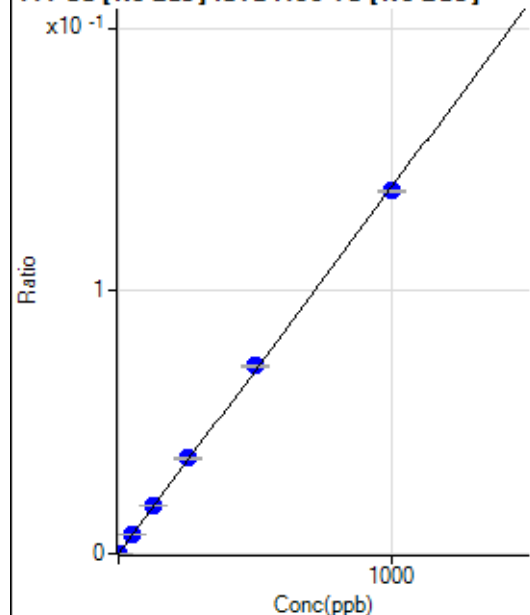
$$DL = 0.005441$$

$$BEC = 0.006083$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	397.57	0.0000	P	6.6
2	☐	1.000	1.200	2208.42	0.0002	P	4.1
3	☐	50.000	53.432	81031.50	0.0075	P	1.7
4	☐	125.000	132.123	198522.69	0.0184	P	0.4
5	☐	250.000	260.883	395078.27	0.0364	P	1.2
6	☐	500.000	511.789	769126.63	0.0713	P	0.2
7	☐	1000.000	990.322	1478686.53	0.1380	P	0.3
8	☐			782.17	0.0001	P	10.1

$$y = 1.3930\text{E-}004 * x + 3.7543\text{E-}005$$

$$R = 0.9998$$

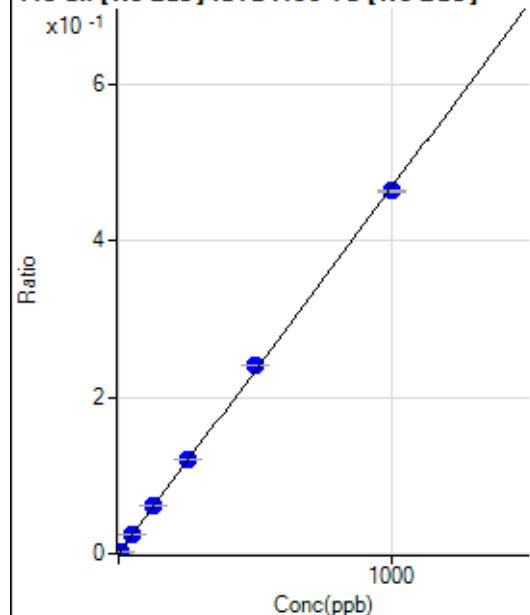
$$DL = 0.05305$$

$$BEC = 0.2695$$

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	1307.67	0.0001	P	89.3
2	☐	5.000	5.263	27903.22	0.0026	P	3.1
3	☐	50.000	52.488	267476.35	0.0247	P	1.6
4	☐	125.000	131.368	663264.04	0.0616	P	0.7
5	☐	250.000	258.133	1313589.54	0.1210	P	0.7
6	☐	500.000	512.528	2588173.32	0.2400	P	0.1
7	☐	1000.000	990.781	4971099.29	0.4639	P	0.5
8	☐			2564.19	0.0002	P	11.4

$$y = 4.6809\text{E-}004 * x + 1.2339\text{E-}004$$

$$R = 0.9998$$

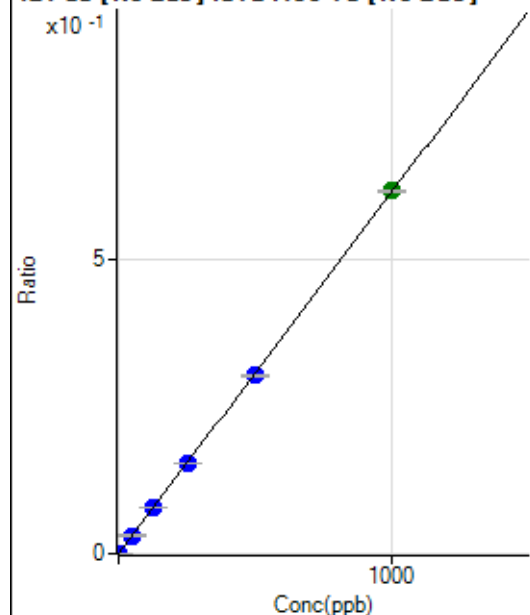
$$DL = 0.7059$$

$$BEC = 0.2636$$

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	119.45	0.0000	P	11.6
2	☐	2.000	2.103	14010.09	0.0013	P	3.2
3	☐	50.000	50.179	332964.56	0.0307	P	1.4
4	☐	125.000	125.885	829876.95	0.0771	P	0.6
5	☐	250.000	248.322	1651473.87	0.1521	P	0.6
6	☐	500.000	492.979	3254973.95	0.3019	P	0.5
7	☐	1000.000	1003.810	6586649.02	0.6147	A	0.5
8	☐			5815.24	0.0006	P	3.9

$$y = 6.1232\text{E-}004 * x + 1.1282\text{E-}005$$

$$R = 1.0000$$

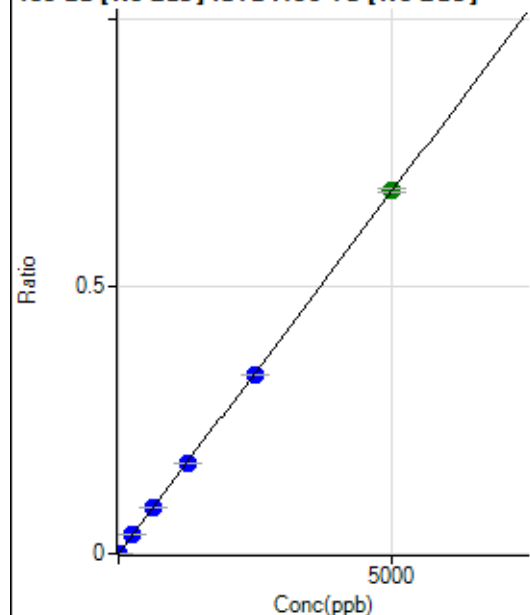
$$DL = 0.006401$$

$$BEC = 0.01843$$

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	66.67	0.0000	P	33.9
2	☐	10.000	10.613	15575.74	0.0014	P	4.1
3	☐	250.000	255.991	375785.88	0.0347	P	1.9
4	☐	625.000	634.893	926051.76	0.0860	P	1.1
5	☐	1250.000	1243.667	1830080.53	0.1685	P	1.0
6	☐	2500.000	2476.264	3617719.31	0.3355	P	0.6
7	☐	5000.000	5011.914	7276741.65	0.6791	A	1.0
8	☐			3975.68	0.0004	P	3.2

$$y = 1.3549\text{E-}004 * x + 6.3079\text{E-}006$$

$$R = 1.0000$$

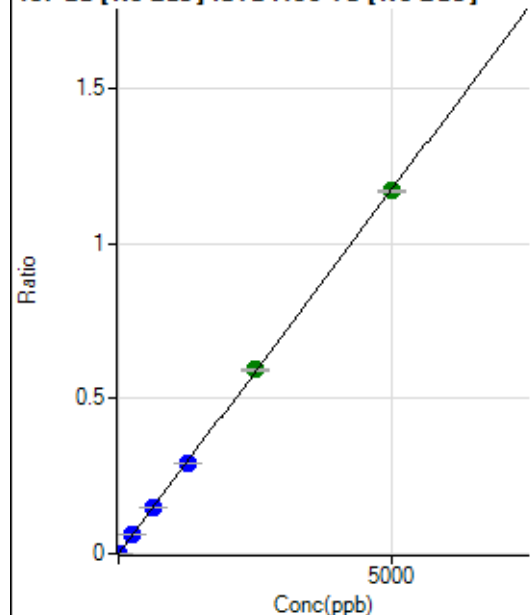
$$DL = 0.04738$$

$$BEC = 0.04656$$

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	113.89	0.0000	P	15.4
2	☐	10.000	10.490	26645.63	0.0025	P	2.3
3	☐	250.000	255.002	647762.92	0.0598	P	1.7
4	☐	625.000	629.901	1589910.87	0.1477	P	0.9
5	☐	1250.000	1245.293	3171069.40	0.2920	P	1.0
6	☐	2500.000	2531.558	6400065.81	0.5936	A	1.1
7	☐	5000.000	4984.534	12523703.93	1.1687	A	0.6
8	☐			6646.21	0.0006	P	7.2

$$y = 2.3446\text{E-}004 * x + 1.0753\text{E-}005$$

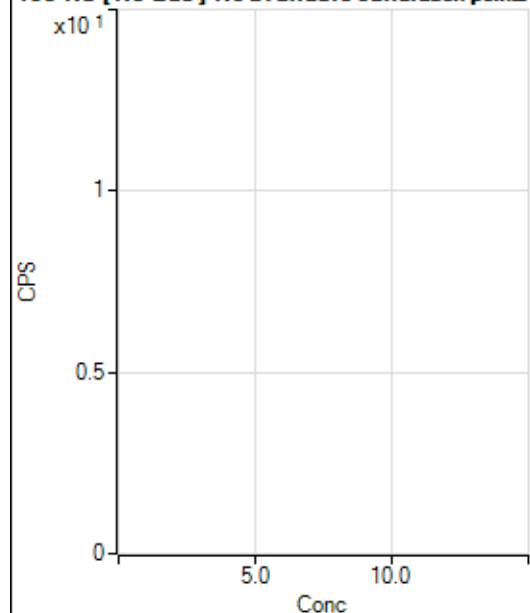
$$R = 1.0000$$

$$DL = 0.02115$$

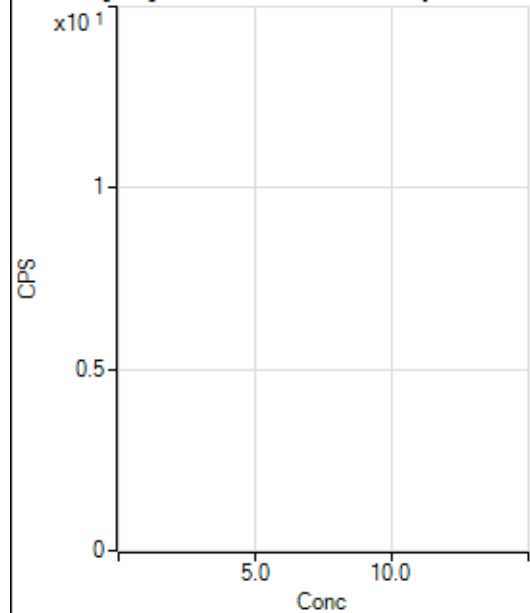
$$BEC = 0.04586$$

Weight: <None>

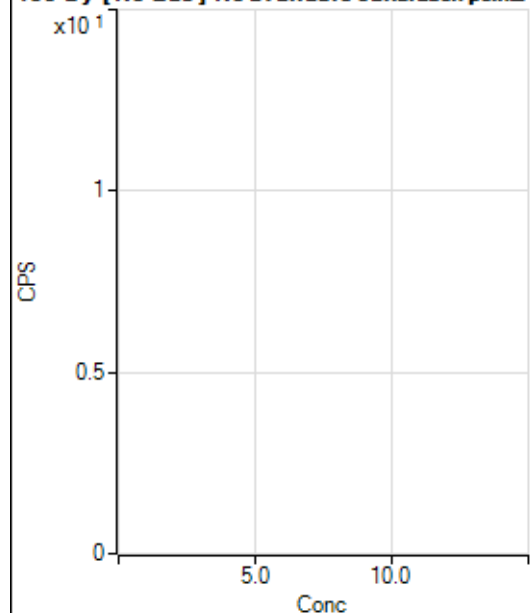
Min Conc: 0

150 Nd [No Gas] No available calibration points

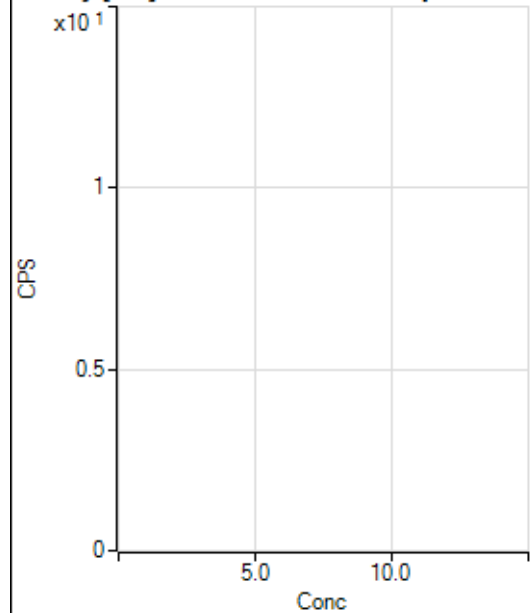
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			37.78		P	44.4
4	☐			55.55		P	30.2
5	☐			126.67		P	15.8
6	☐			211.12		P	7.9
7	☐			437.80		P	12.8
8	☐			37.78		P	81.5

150 Nd [He] No available calibration points

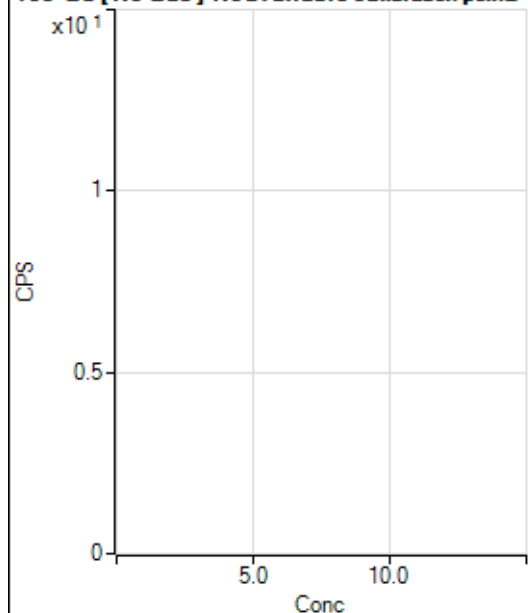
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	100.
3	☐			2.22		P	86.6
4	☐			15.56		P	49.5
5	☐			22.22		P	22.9
6	☐			37.78		P	22.2
7	☐			71.11		P	14.3
8	☐			12.22		P	15.7

156 Dy [No Gas] No available calibration points

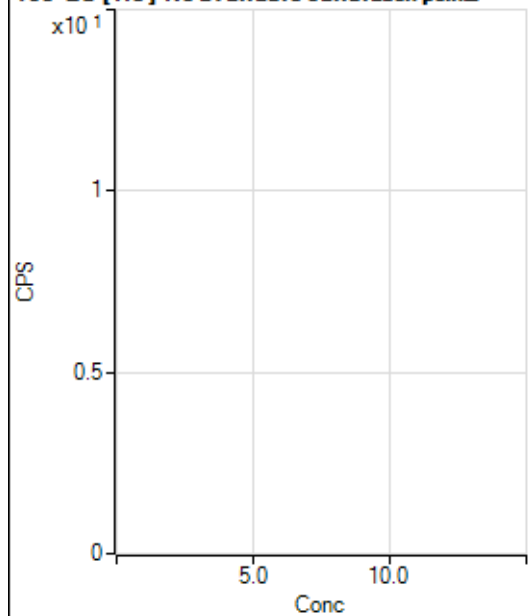
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	69.3
2	☐			8.33		P	100.
3	☐			36.11		P	13.3
4	☐			94.45		P	31.0
5	☐			136.12		P	15.4
6	☐			255.57		P	10.0
7	☐			466.69		P	12.9
8	☐			1758.50		P	5.7

156 Dy [He] No available calibration points

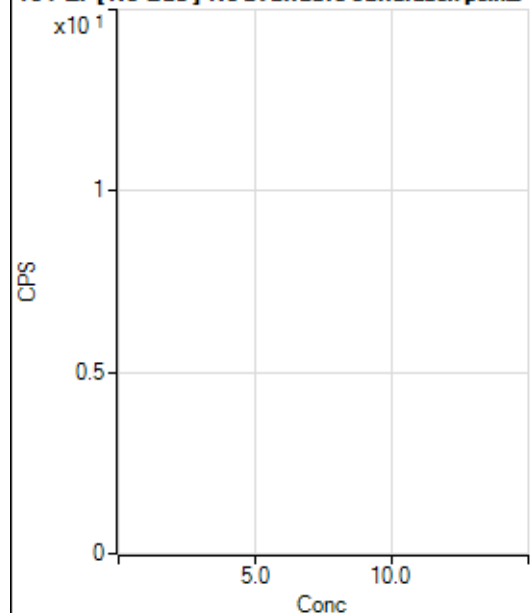
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			6.67		P	50.0
3	☐			25.55		P	27.1
4	☐			40.00		P	22.0
5	☐			83.33		P	17.4
6	☐			161.11		P	21.7
7	☐			280.01		P	6.3
8	☐			1137.84		P	2.1

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

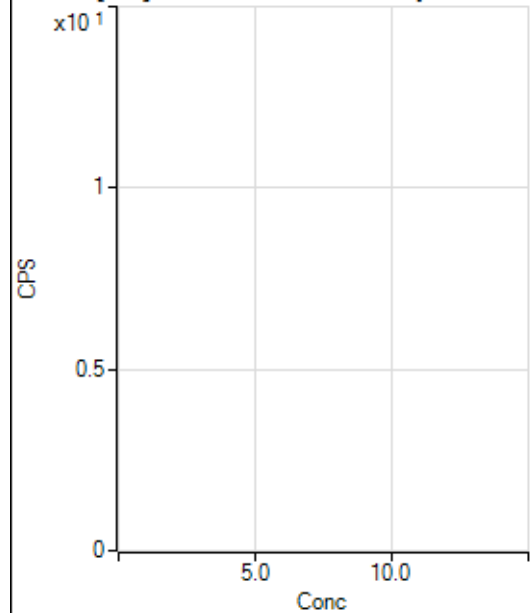
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.56		P	15.8
2	☐			55.56		P	31.2
3	☐			66.67		P	33.1
4	☐			108.34		P	40.0
5	☐			175.01		P	14.3
6	☐			305.57		P	19.2
7	☐			486.14		P	17.2
8	☐			1702.93		P	7.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	15.0
2	☐			70.00		P	12.6
3	☐			73.33		P	4.5
4	☐			125.56		P	14.6
5	☐			120.00		P	10.0
6	☐			221.11		P	14.3
7	☐			373.34		P	4.7
8	☐			1421.20		P	9.0

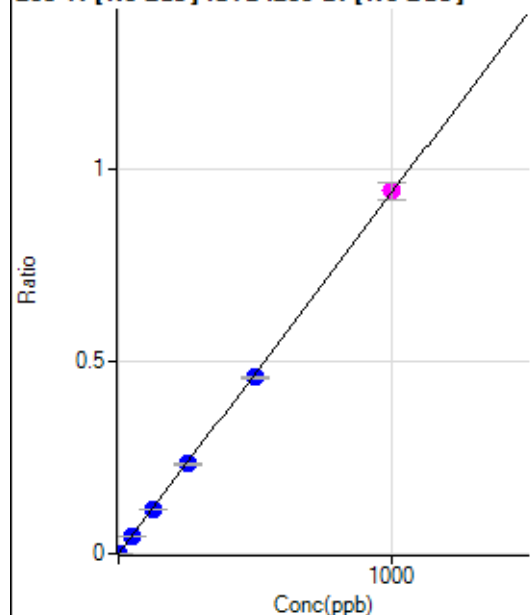
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.34		P	0.0
2	☐			83.34		P	10.0
3	☐			100.00		P	50.0
4	☐			63.89		P	7.5
5	☐			100.00		P	30.0
6	☐			77.78		P	22.3
7	☐			133.34		P	39.0
8	☐			313.90		P	9.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.67		P	7.1
2	☐			36.67		P	18.2
3	☐			35.56		P	14.3
4	☐			58.89		P	21.4
5	☐			64.44		P	13.0
6	☐			70.00		P	20.8
7	☐			74.45		P	18.1
8	☐			207.78		P	9.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	119.45	0.0000	P	4.6
2	☐	1.000	1.065	7638.51	0.0010	P	1.8
3	☐	50.000	50.192	353267.44	0.0471	P	1.4
4	☐	125.000	123.296	876073.61	0.1158	P	1.0
5	☐	250.000	249.243	1760661.33	0.2340	P	1.7
6	☐	500.000	489.386	3427171.17	0.4595	P	1.0
7	☐	1000.000	1005.699	6876873.50	0.9443	M	5.0
8	☐			3625.62	0.0006	P	15.8

$$y = 9.3889\text{E-}004 * x + 1.6245\text{E-}005$$

$$R = 0.9999$$

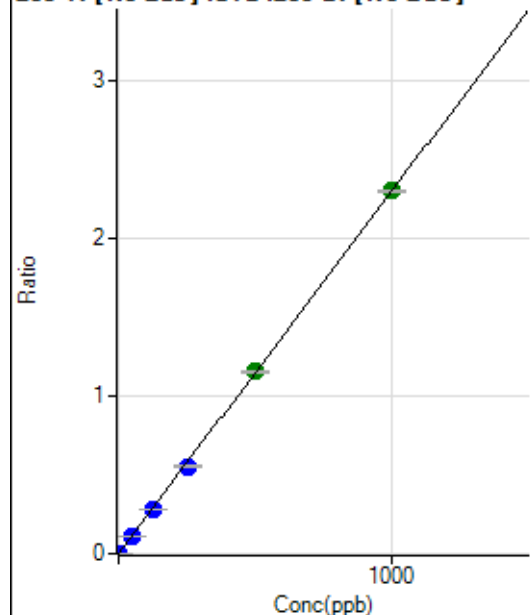
$$DL = 0.002388$$

$$BEC = 0.0173$$

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	200.01	0.0000	P	23.8
2	☐	1.000	1.006	17584.30	0.0023	P	1.5
3	☐	50.000	49.377	850088.63	0.1134	P	1.3
4	☐	125.000	121.057	2104160.40	0.2781	P	0.5
5	☐	250.000	241.306	4169850.18	0.5543	P	2.0
6	☐	500.000	501.994	8599880.40	1.1530	A	1.1
7	☐	1000.000	1001.701	16760298.81	2.3008	A	0.6
8	☐			8658.58	0.0014	P	9.7

$$y = 0.0023 * x + 2.7227\text{E-}005$$

$$R = 1.0000$$

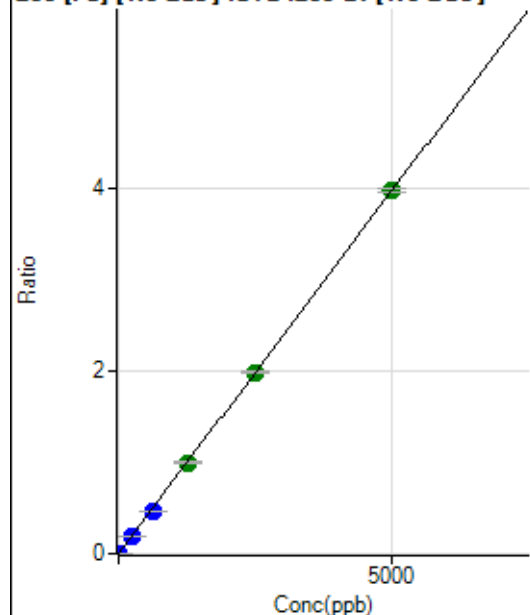
$$DL = 0.008464$$

$$BEC = 0.01185$$

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	724.11	0.0001	P	6.7
2	☐	1.000	0.982	6603.61	0.0009	P	4.0
3	☐	250.000	241.197	1435945.07	0.1916	P	2.0
4	☐	625.000	590.075	3546262.26	0.4687	P	0.7
5	☐	1250.000	1250.935	7473784.02	0.9934	A	1.7
6	☐	2500.000	2500.641	14810695.36	1.9858	A	1.2
7	☐	5000.000	5004.252	28947421.02	3.9738	A	1.0
8	☐			21361.83	0.0034	P	2.3

$$y = 7.9406\text{E-}004 * x + 9.8442\text{E-}005$$

$$R = 1.0000$$

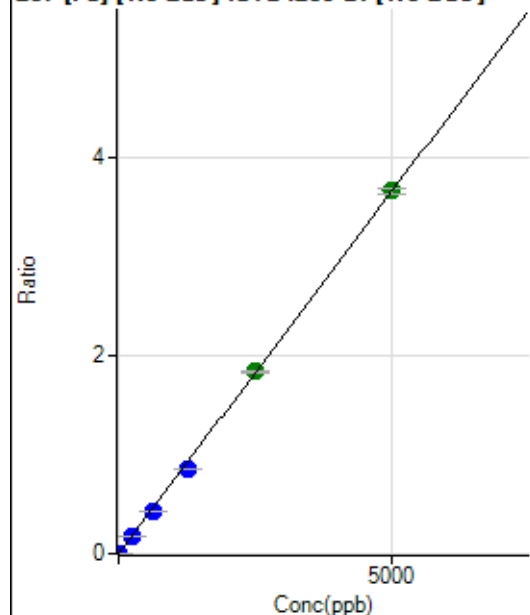
$$DL = 0.0248$$

$$BEC = 0.124$$

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	587.06	0.0001	P	10.4
2	☐	1.000	0.937	5734.68	0.0008	P	4.9
3	☐	250.000	240.112	1311906.19	0.1751	P	1.5
4	☐	625.000	592.333	3267015.41	0.4318	P	1.0
5	☐	1250.000	1166.107	6394218.43	0.8499	P	1.6
6	☐	2500.000	2520.084	13699037.57	1.8366	A	0.8
7	☐	5000.000	5015.509	26626529.30	3.6552	A	1.4
8	☐			18711.55	0.0030	P	1.1

$$y = 7.2877\text{E-}004 * x + 7.9870\text{E-}005$$

$$R = 0.9998$$

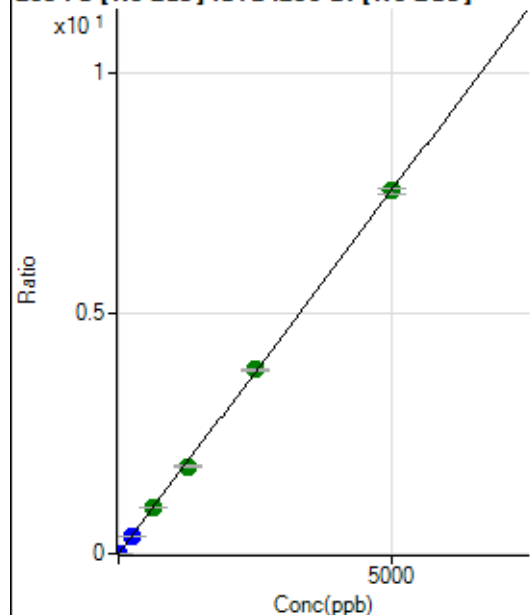
$$DL = 0.03422$$

$$BEC = 0.1096$$

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	1127.49	0.0002	P	11.9
2	☐	1.000	0.951	11947.66	0.0016	P	4.0
3	☐	250.000	238.212	2695946.05	0.3598	P	1.6
4	☐	625.000	629.776	7194975.42	0.9509	A	1.8
5	☐	1250.000	1202.478	13658266.63	1.8154	A	1.9
6	☐	2500.000	2531.039	28500573.78	3.8211	A	0.7
7	☐	5000.000	4996.354	54945168.08	7.5428	A	1.6
8	☐			37824.68	0.0061	P	0.9

$$y = 0.0015 * x + 1.5335E-004$$

$$R = 0.9999$$

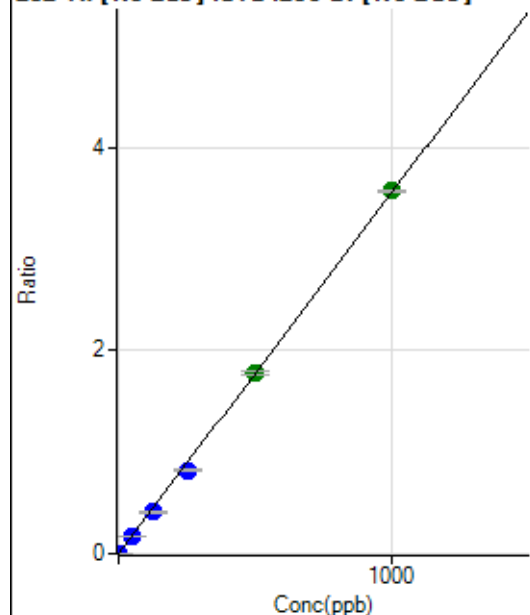
$$DL = 0.03622$$

$$BEC = 0.1016$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	379.64	0.0001	P	4.0
2	☐	1.000	-0.005	248.16	0.0000	P	18.3
3	☐	50.000	46.856	1248661.61	0.1666	P	1.9
4	☐	125.000	114.924	3091992.58	0.4086	P	1.0
5	☐	250.000	231.137	6182653.67	0.8218	P	1.3
6	☐	500.000	501.998	13310592.31	1.7847	A	1.7
7	☐	1000.000	1005.135	26032117.71	3.5734	A	0.3
8	☐			8191.61	0.0013	P	8.3

$$y = 0.0036 * x + 5.1627E-005$$

$$R = 0.9998$$

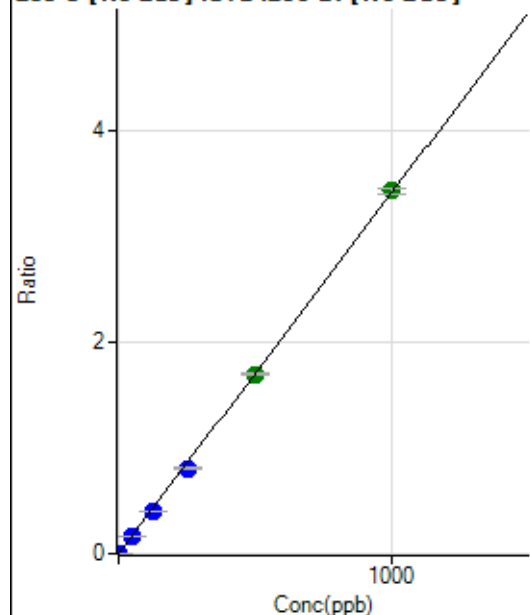
$$DL = 0.001744$$

$$BEC = 0.01452$$

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	163.89	0.0000	P	42.6
2	☐	1.000	0.993	25622.85	0.0034	P	1.6
3	☐	50.000	47.770	1220826.92	0.1629	P	2.4
4	☐	125.000	118.094	3047484.77	0.4027	P	0.8
5	☐	250.000	236.977	6079929.17	0.8081	P	1.7
6	☐	500.000	497.439	12652109.57	1.6964	A	1.2
7	☐	1000.000	1005.511	24977748.82	3.4289	A	1.4
8	☐			6960.38	0.0011	P	5.8

$$y = 0.0034 * x + 2.2246E-005$$

$$R = 0.9999$$

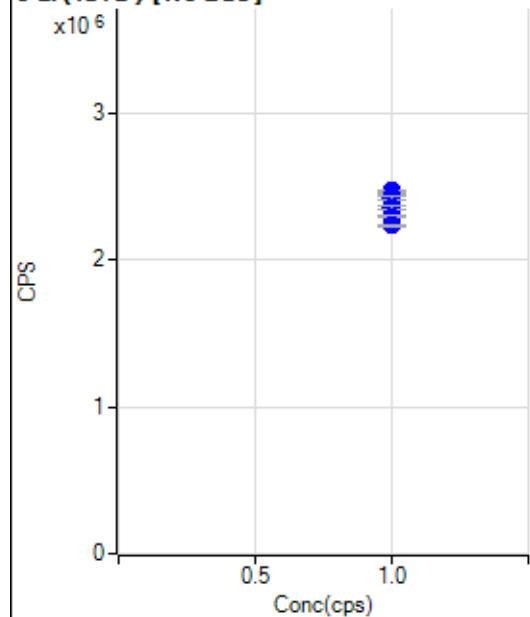
$$DL = 0.008334$$

$$BEC = 0.006524$$

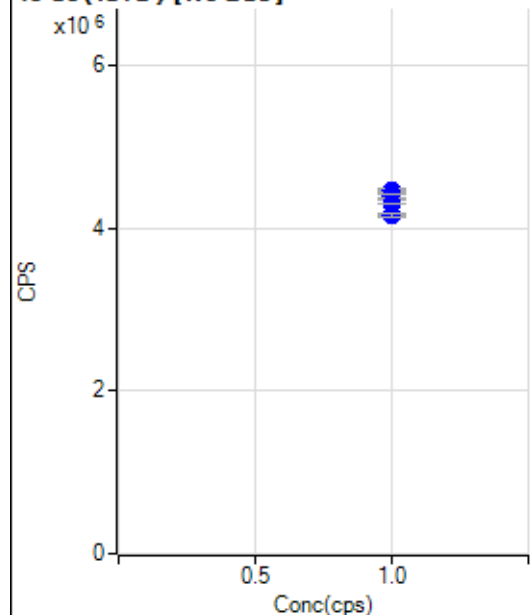
Weight: <None>

Min Conc: 0

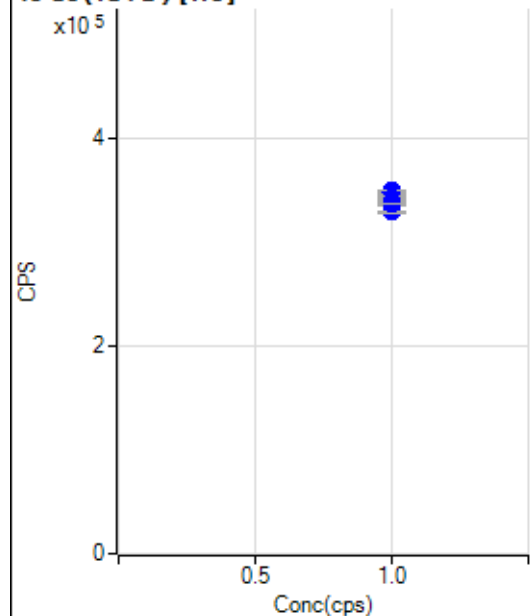
6 Li (ISTD) [No Gas]



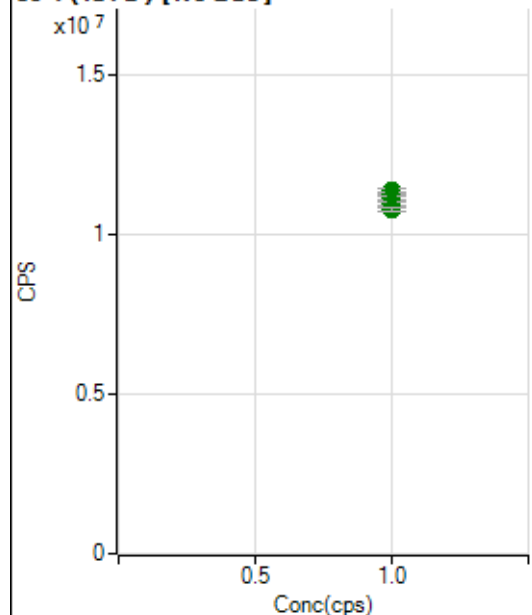
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2436936.20		P	0.6
2	☐	1.000		2459115.78		P	0.8
3	☐	1.000		2469468.97		P	0.7
4	☐	1.000		2438999.02		P	0.8
5	☐	1.000		2417695.99		P	1.2
6	☐	1.000		2358518.37		P	1.1
7	☐	1.000		2293935.05		P	0.7
8	☐	1.000		2234020.90		P	0.9

45 Sc (ISTD) [No Gas]

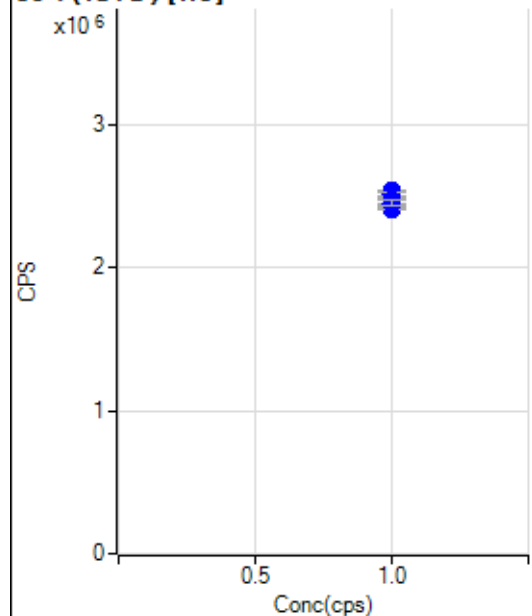
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4351653.03		P	0.6
2	☐	1.000		4457190.97		P	0.5
3	☐	1.000		4460513.27		P	1.1
4	☐	1.000		4422275.14		P	0.5
5	☐	1.000		4398079.17		P	1.3
6	☐	1.000		4297688.89		P	0.2
7	☐	1.000		4171035.77		P	0.1
8	☐	1.000		4156334.76		P	0.8

45 Sc (ISTD) [He]

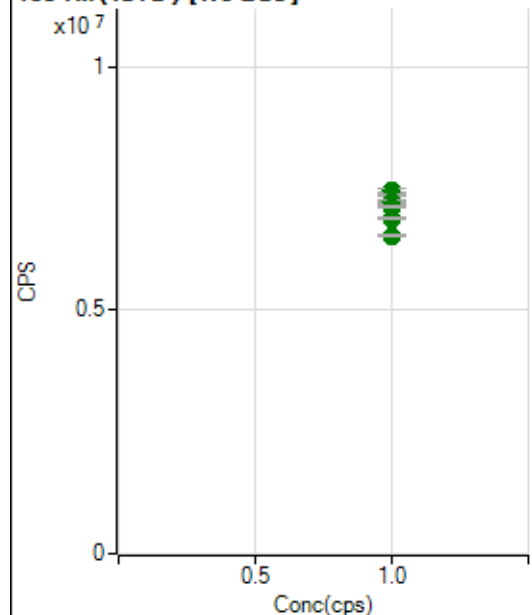
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		342068.66		P	0.4
2	☐	1.000		349377.24		P	0.5
3	☐	1.000		347797.98		P	0.8
4	☐	1.000		343215.90		P	0.9
5	☐	1.000		338533.52		P	0.3
6	☐	1.000		335128.70		P	0.3
7	☐	1.000		329373.57		P	0.4
8	☐	1.000		337227.37		P	0.2

89 Y (ISTD) [No Gas]

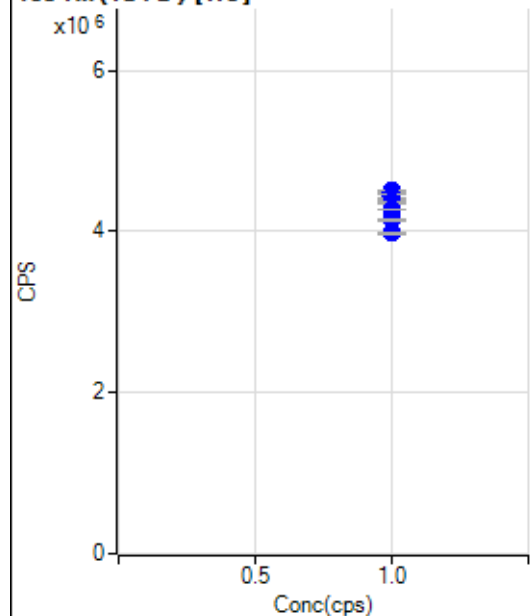
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11099298.17		A	0.4
2	☐	1.000		11322494.14		A	0.2
3	☐	1.000		11365346.77		A	1.6
4	☐	1.000		11385713.30		A	1.0
5	☐	1.000		11297041.36		A	0.9
6	☐	1.000		11146470.67		A	1.0
7	☐	1.000		10984303.59		A	1.4
8	☐	1.000		10793103.10		A	0.8

89 Y (ISTD) [He]

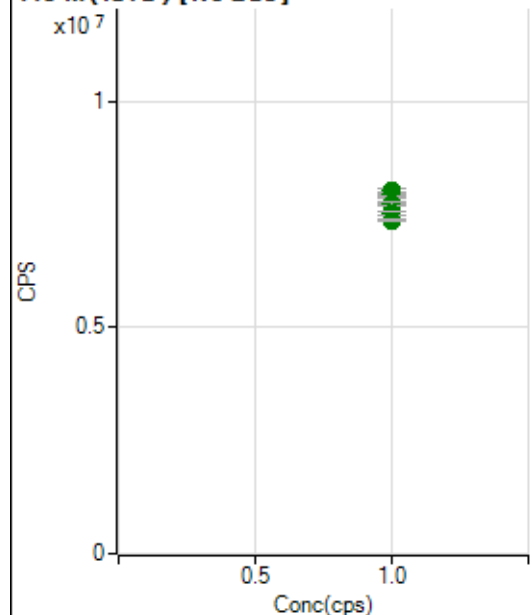
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2481958.80		P	0.8
2	☐	1.000		2535980.22		P	0.1
3	☐	1.000		2529094.27		P	0.6
4	☐	1.000		2511986.02		P	1.3
5	☐	1.000		2475120.73		P	0.2
6	☐	1.000		2445700.36		P	0.3
7	☐	1.000		2411955.66		P	0.6
8	☐	1.000		2452056.37		P	1.2

103 Rh (ISTD) [No Gas]

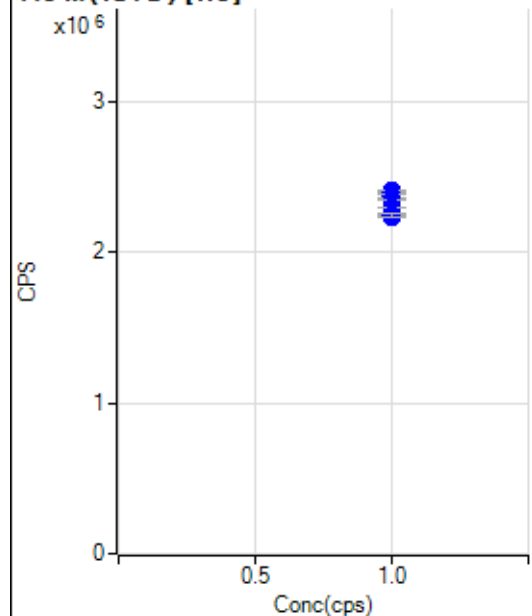
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7224445.24		A	0.2
2	☐	1.000		7450751.07		A	0.9
3	☐	1.000		7391745.03		A	1.0
4	☐	1.000		7354145.10		A	0.7
5	☐	1.000		7222140.17		A	0.7
6	☐	1.000		7126858.09		A	0.6
7	☐	1.000		6884557.95		A	0.7
8	☐	1.000		6524135.32		A	0.5

103 Rh (ISTD) [He]

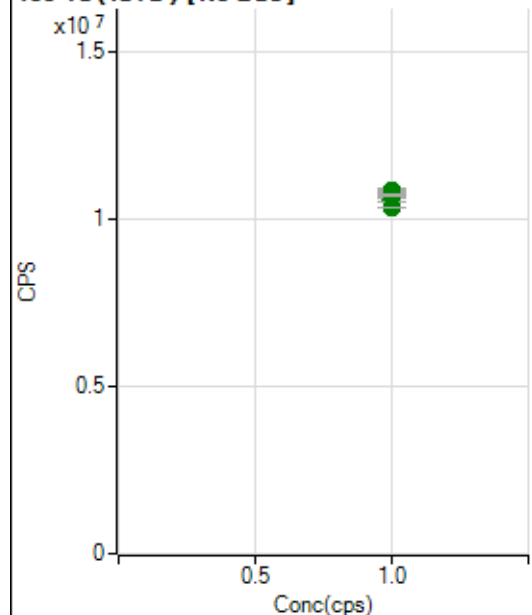
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4409622.23		P	0.6
2	☐	1.000		4501232.67		P	0.4
3	☐	1.000		4485979.17		P	0.6
4	☐	1.000		4426327.71		P	1.3
5	☐	1.000		4355023.51		P	0.5
6	☐	1.000		4274370.25		P	0.2
7	☐	1.000		4140931.88		P	0.7
8	☐	1.000		3972418.76		P	0.6

115 In (ISTD) [No Gas]

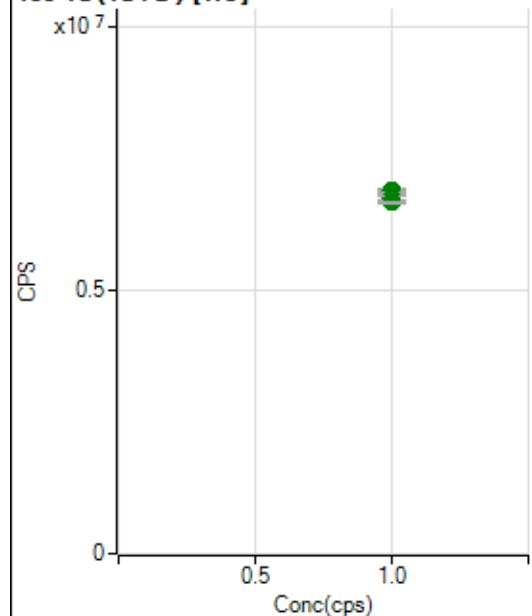
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7764515.92		A	0.7
2	☐	1.000		8013687.65		A	1.4
3	☐	1.000		7970918.26		A	0.5
4	☐	1.000		7934666.99		A	1.0
5	☐	1.000		7881625.78		A	0.1
6	☐	1.000		7728879.64		A	1.0
7	☐	1.000		7520201.95		A	1.3
8	☐	1.000		7366190.06		A	0.2

115 In (ISTD) [He]

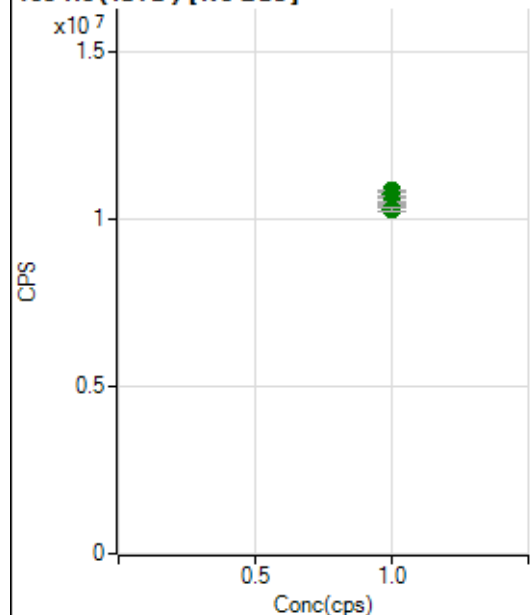
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2358991.14		P	0.3
2	☐	1.000		2407843.93		P	0.4
3	☐	1.000		2399926.84		P	0.7
4	☐	1.000		2375440.37		P	1.1
5	☐	1.000		2347293.09		P	0.1
6	☐	1.000		2302055.27		P	0.1
7	☐	1.000		2236215.59		P	0.5
8	☐	1.000		2244556.80		P	1.0

159 Tb (ISTD) [No Gas]

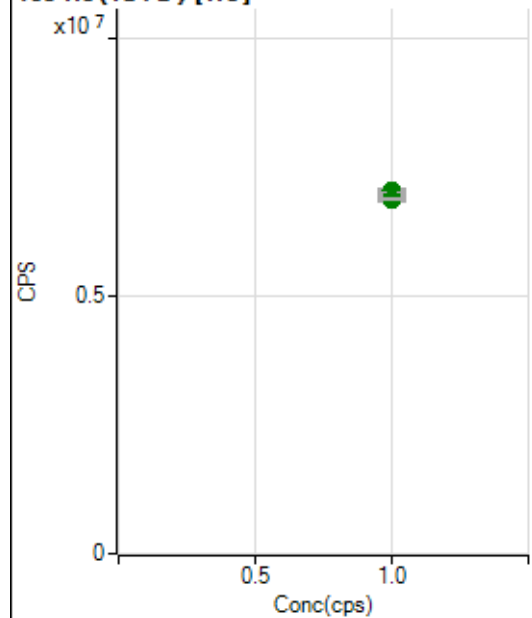
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10594440.12		A	1.1
2	☐	1.000		10787874.42		A	1.1
3	☐	1.000		10834021.99		A	1.5
4	☐	1.000		10764553.45		A	0.3
5	☐	1.000		10860522.68		A	0.4
6	☐	1.000		10782641.92		A	0.5
7	☐	1.000		10715945.95		A	0.4
8	☐	1.000		10365848.80		A	0.4

159 Tb (ISTD) [He]

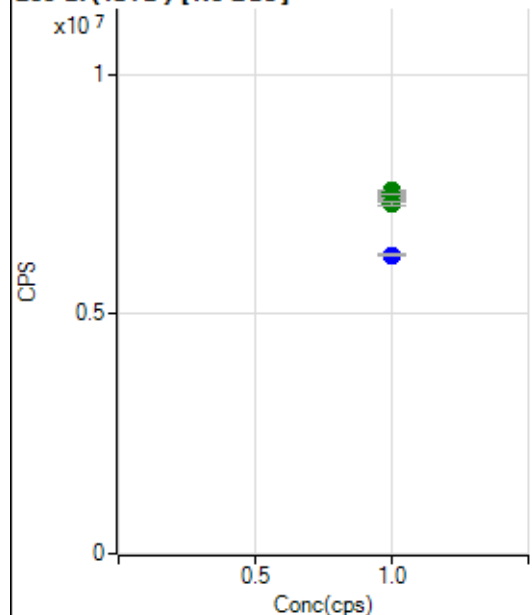
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6767962.33		A	0.8
2	☐	1.000		6875879.55		A	0.6
3	☐	1.000		6895536.43		A	0.7
4	☐	1.000		6893830.11		A	1.2
5	☐	1.000		6835266.42		A	0.4
6	☐	1.000		6856883.79		A	0.1
7	☐	1.000		6761827.82		A	0.6
8	☐	1.000		6673323.51		A	0.6

165 Ho (ISTD) [No Gas]

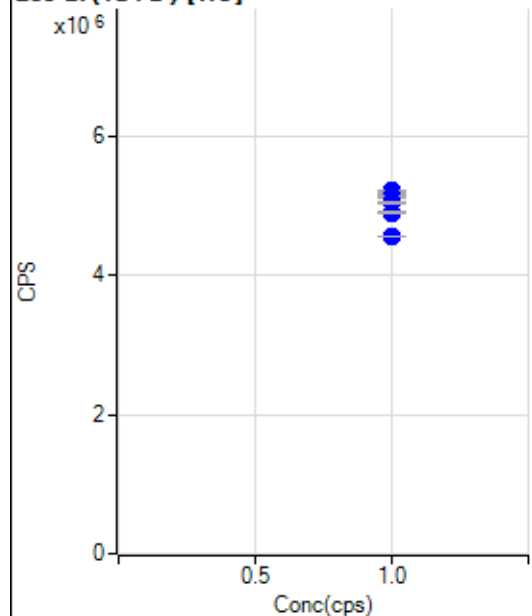
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10473116.79		A	0.9
2	☐	1.000		10640089.63		A	1.5
3	☐	1.000		10754105.53		A	1.0
4	☐	1.000		10684779.49		A	0.4
5	☐	1.000		10858767.61		A	0.8
6	☐	1.000		10687054.35		A	0.7
7	☐	1.000		10514578.87		A	0.3
8	☐	1.000		10310503.11		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6841124.34		A	0.5
2	☐	1.000		6979105.52		A	1.2
3	☐	1.000		7019896.08		A	0.6
4	☐	1.000		7032250.66		A	1.6
5	☐	1.000		6938302.12		A	0.6
6	☐	1.000		6994549.27		A	0.1
7	☐	1.000		6864537.89		A	1.0
8	☐	1.000		6862976.08		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7354266.70		A	0.8
2	☐	1.000		7519026.55		A	1.0
3	☐	1.000		7494679.12		A	1.2
4	☐	1.000		7566883.43		A	0.4
5	☐	1.000		7524528.43		A	1.6
6	☐	1.000		7459241.14		A	1.4
7	☐	1.000		7284914.13		A	1.1
8	☐	1.000		6226903.31		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5147223.85		P	0.9
2	☐	1.000		5197853.81		P	0.4
3	☐	1.000		5213279.85		P	0.7
4	☐	1.000		5144493.53		P	0.8
5	☐	1.000		5114615.41		P	0.5
6	☐	1.000		5049521.80		P	0.4
7	☐	1.000		4901122.60		P	1.0
8	☐	1.000		4560024.83		P	0.5

US EPA Tune Check Sample Report

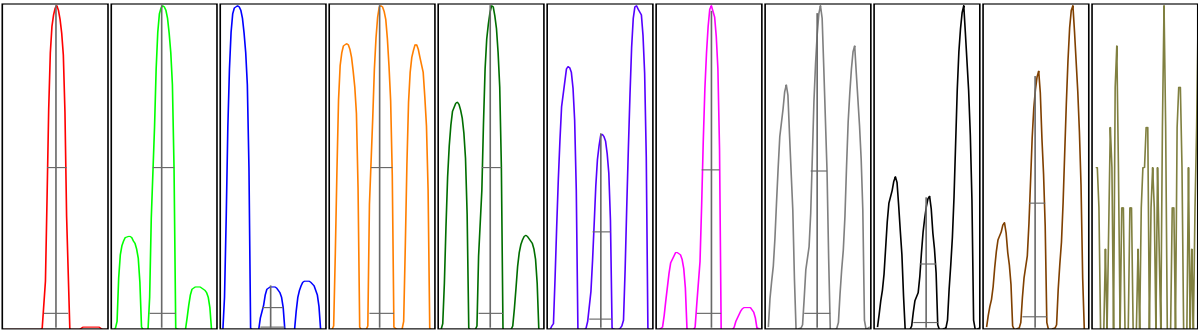
Batch Folder C:\Agilent\ICPMH\1\DATA\P7060321MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	9055	1.25	5.00	
24	83055	0.88	5.00	
25	10797	0.77	5.00	
26	12395	1.14	5.00	
59	44157	0.57	5.00	
113	10827	0.63	5.00	
115	76429	2.59	5.00	
206	24428	0.87	5.00	
207	21123	0.86	5.00	
208	51331	0.94	5.00	
220	0	50.46		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	8862	9099	9142	9050	9121
24	81832	83218	83761	83039	83423
25	10665	10839	10886	10821	10776
26	12156	12452	12522	12453	12391
59	43738	44219	44411	44153	44262
113	10905	10835	10878	10777	10740
115	78866	77573	76845	74794	74068
206	24159	24392	24748	24465	24377
207	20883	21032	21375	21172	21155
208	50742	51249	51938	51679	51047
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	16742	9.05	8.9 - 9.1		0.727	0.900	
24	139736	23.95	23.9 - 24.1		0.770	0.900	
25	18512	24.95	24.9 - 25.1		0.738	0.900	
26	21003	25.95	25.9 - 26.1		0.740	0.900	
59	79308	59.00	58.9 - 59.1		0.736	0.900	
113	21467	113.05	112.9 - 113.1		0.693	0.900	
115	147584	115.10	114.9 - 115.1		0.716	0.900	
206	52653	206.00	205.9 - 206.1		0.766	0.900	
207	46440	207.00	206.9 - 207.1		0.735	0.900	
208	112115	208.00	207.9 - 208.1		0.735	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.65	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.45 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.3	V	Deflect	13.6	V
Extract 2	-160.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	170	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	16094	1.08	
89	34269	0.89	
205	13244	0.88	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	15967	16100	16392	15992	16019
89	33994	34328	34752	34249	34023
205	13224	13303	13385	13069	13240

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.65	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.45 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.8	V	Deflect	2.2	V
Extract 2	-165.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-85	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			