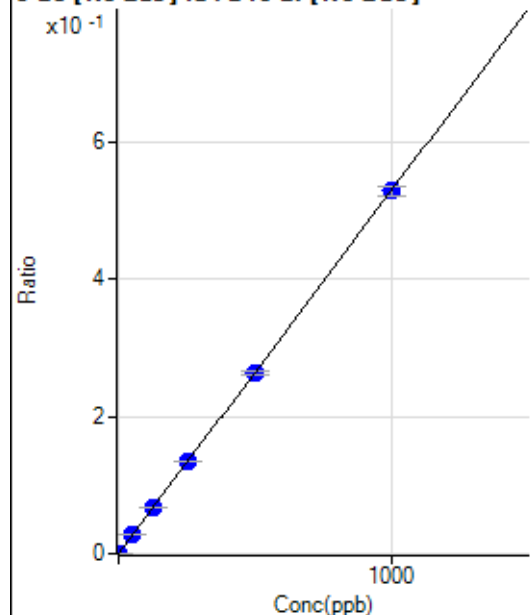


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7080321-PS.b\
Analysis File: P7080321-PS.batch.bin
DA Date-Time: 2021-08-03 14:07:56
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-08-03 11:46:50
2	004CALS.d	S02	2021-08-03 11:49:54
3	006CALS.d	S03	2021-08-03 11:56:00
4	007CALS.d	S04	2021-08-03 11:59:03
5	008CALS.d	S05	2021-08-03 12:02:06
6	009CALS.d	S06	2021-08-03 12:05:03
7	010CALS.d	S07	2021-08-03 12:07:56
8	011CALS.d	S08	2021-08-03 12:10:48

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	90.74	0.0000	P	19.5
2	☐	1.000	1.025	1876.07	0.0006	P	5.8
3	☐	50.000	52.192	91423.06	0.0276	P	1.6
4	☐	125.000	128.179	223026.22	0.0678	P	0.8
5	☐	250.000	254.829	422459.44	0.1348	P	1.4
6	☐	500.000	498.985	788097.57	0.2639	P	1.9
7	☐	1000.000	998.793	1504037.86	0.5282	P	2.6
8	☐			324.08	0.0001	P	4.2

$$y = 5.2885\text{E-}004 * x + 2.7462\text{E-}005$$

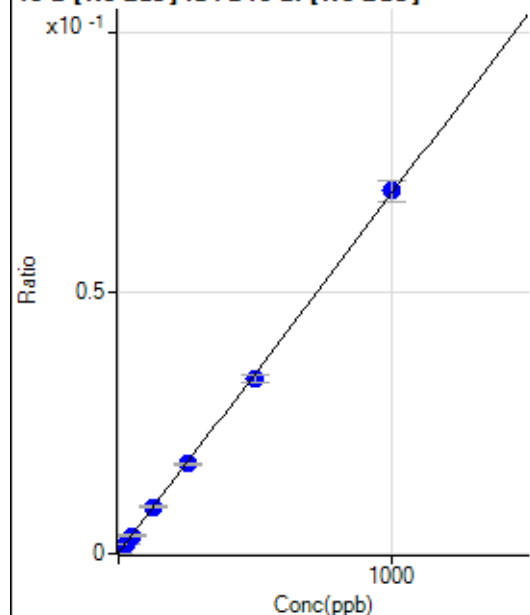
$$R = 1.0000$$

$$DL = 0.03043$$

$$BEC = 0.05193$$

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	352.79	0.0001	P	24.8
2	☐	25.000	23.520	5690.10	0.0017	P	6.5
3	☐	50.000	49.135	11557.47	0.0035	P	4.5
4	☐	125.000	127.145	29167.40	0.0089	P	4.0
5	☐	250.000	248.069	53927.25	0.0172	P	2.0
6	☐	500.000	484.712	100073.81	0.0335	P	3.9
7	☐	1000.000	1007.939	198032.35	0.0696	P	5.8
8	☐			9097.39	0.0033	P	10.1

$$y = 6.8916\text{E-}005 * x + 1.0690\text{E-}004$$

$$R = 0.9998$$

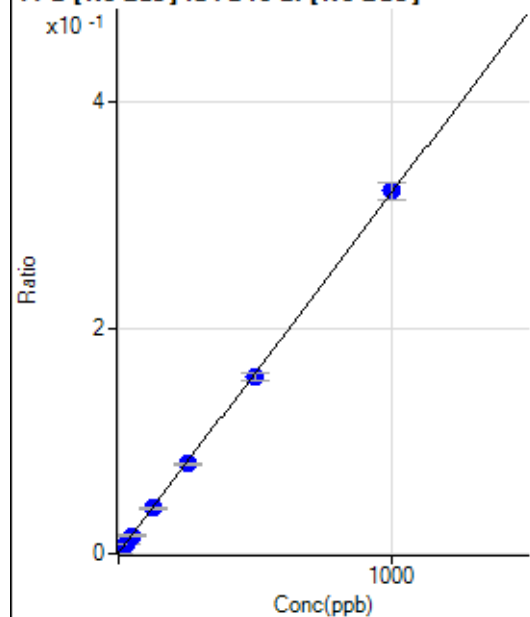
$$DL = 1.153$$

$$BEC = 1.551$$

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	1652.91	0.0005	P	6.8
2	☐	25.000	24.033	26913.23	0.0082	P	3.2
3	☐	50.000	48.777	53168.79	0.0161	P	2.6
4	☐	125.000	124.594	132442.84	0.0403	P	3.8
5	☐	250.000	247.520	249219.48	0.0795	P	2.3
6	☐	500.000	490.486	468981.41	0.1571	P	3.8
7	☐	1000.000	1005.513	915020.97	0.3214	P	5.1
8	☐			43254.23	0.0155	P	9.8

$$y = 3.1918\text{E-}004 * x + 5.0035\text{E-}004$$

$$R = 0.9999$$

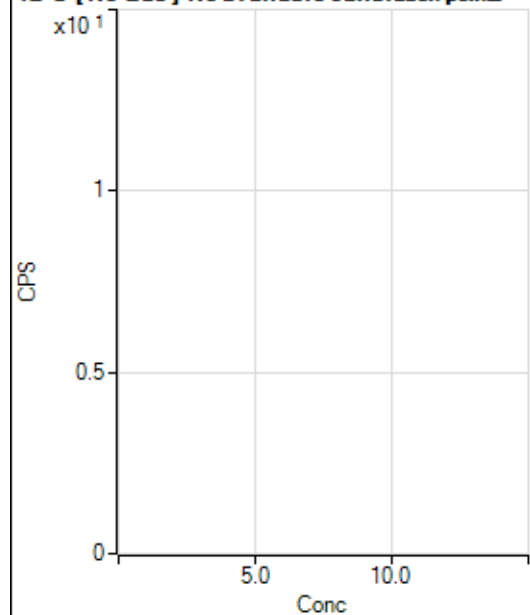
$$DL = 0.3188$$

$$BEC = 1.568$$

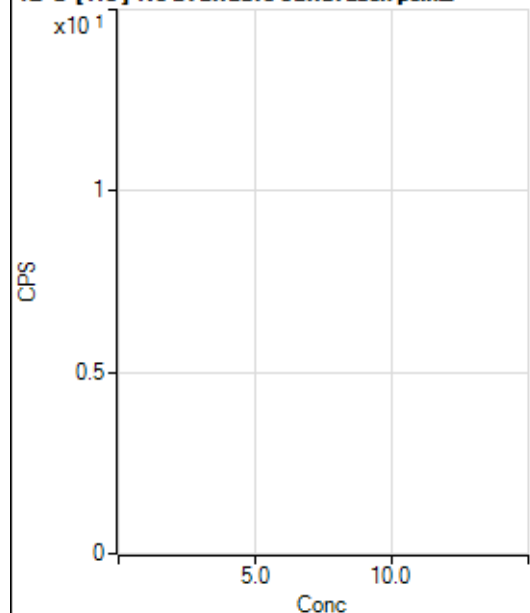
Weight: <None>

Min Conc: 0

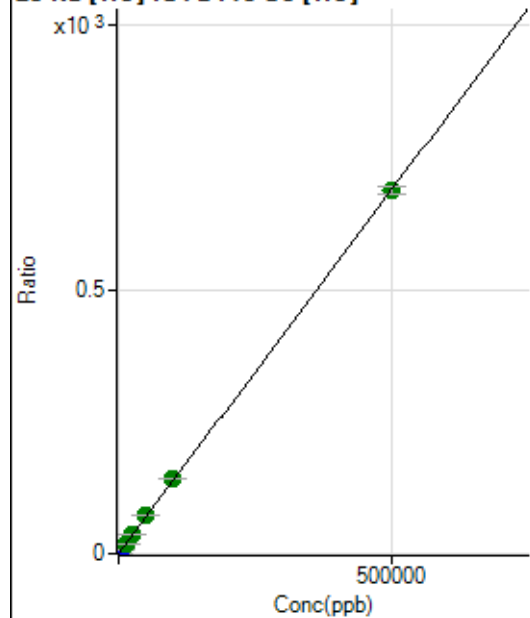
12 C [No Gas] No available calibration points



	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	12402.56	0.0355	P	4.1
2	☐	500.000	536.315	276835.04	0.7743	P	1.0
3	☐	5000.000	5580.775	2594447.06	7.7238	P	1.6
4	☐	12500.000	13136.009	6158445.11	18.1322	A	0.6
5	☐	25000.000	25935.965	11860534.38	35.7660	A	1.1
6	☐	50000.000	52886.820	22957008.32	72.8946	A	0.7
7	☐	100000.00	103896.49	44144573.90	143.1678	A	0.8
8	☐	500000.00	498863.47	210928388.0	687.2912	A	2.1

$$y = 0.0014 * x + 0.0355$$

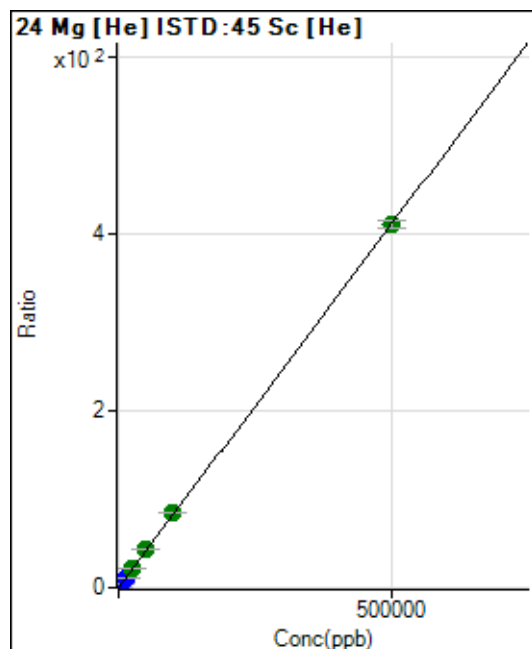
$$R = 1.0000$$

$$DL = 3.141$$

$$BEC = 25.76$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	366.68	0.0011	P	14.5
2	☐	500.000	527.611	155256.74	0.4343	P	0.6
3	☐	5000.000	5646.894	1557803.74	4.6376	P	1.6
4	☐	12500.000	13390.450	3734670.22	10.9958	P	0.3
5	☐	25000.000	26148.616	7119725.25	21.4713	A	1.6
6	☐	50000.000	52598.822	13601991.10	43.1892	A	0.5
7	☐	100000.00	103614.14	26232383.92	85.0771	A	1.0
8	☐	500000.00	498931.10	125722493.0	409.6660	A	2.0

$$y = 8.2109\text{E-}004 * x + 0.0011$$

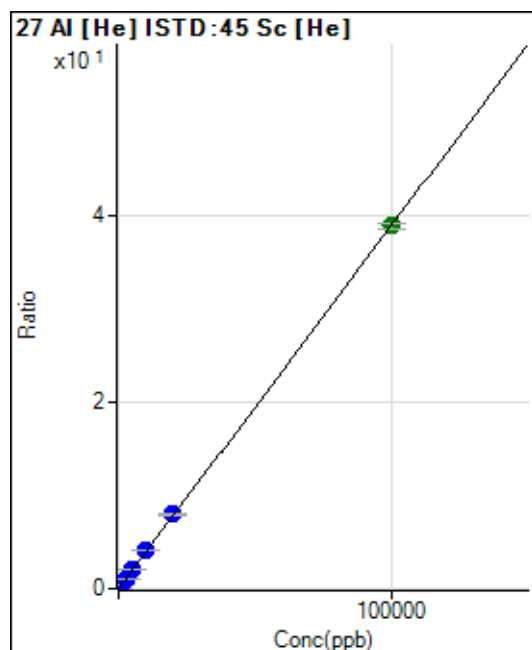
R = 1.0000

DL = 0.558

BEC = 1.28

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	86.11	0.0002	P	46.0
2	☐	20.000	24.996	3569.97	0.0100	P	2.5
3	☐	1000.000	1114.226	145878.96	0.4343	P	1.0
4	☐	2500.000	2606.647	344937.44	1.0156	P	0.5
5	☐	5000.000	5122.617	661734.53	1.9956	P	1.4
6	☐	10000.000	10389.957	1274642.91	4.0473	P	0.4
7	☐	20000.000	20395.111	2449618.85	7.9445	P	0.5
8	☐	100000.00	99872.042	11939119.54	38.9020	A	1.8

$$y = 3.8952\text{E-}004 * x + 2.4786\text{E-}004$$

R = 1.0000

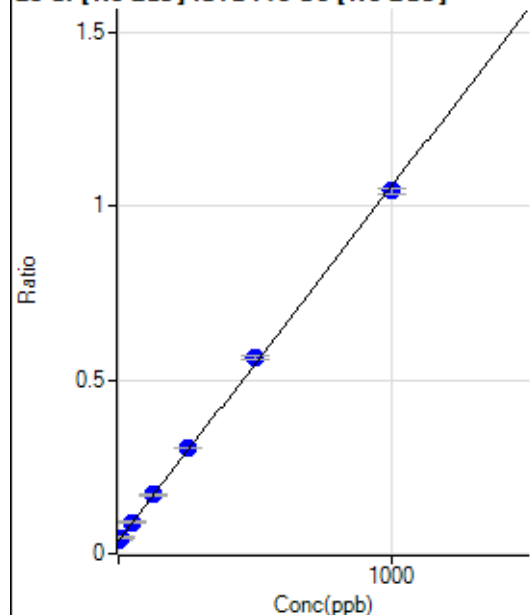
DL = 0.8778

BEC = 0.6363

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	187287.77	0.0372	P	0.4
2	☐	10.000	9.516	235999.79	0.0469	P	1.3
3	☐	50.000	52.398	448692.47	0.0907	P	1.4
4	☐	125.000	129.077	832175.42	0.1689	P	1.9
5	☐	250.000	262.165	1441889.45	0.3046	P	0.7
6	☐	500.000	518.006	2544888.77	0.5655	P	2.4
7	☐	1000.000	987.331	4550274.14	1.0441	P	1.6
8	☐			544863.23	0.1272	P	5.7

$$y = 0.0010 * x + 0.0372$$

$$R = 0.9997$$

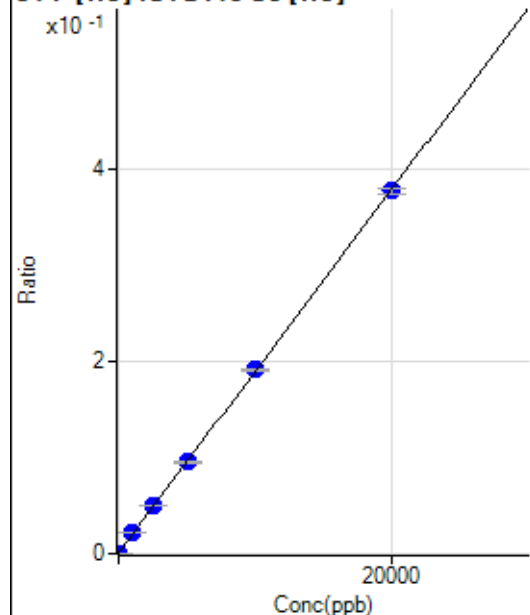
$$DL = 0.4128$$

$$BEC = 36.52$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-2.139	266.68	0.0008	P	24.4
2	☐	0.000	2.139	302.79	0.0008	P	8.2
3	☐	1000.000	1131.128	7463.17	0.0222	P	1.6
4	☐	2500.000	2587.538	16907.13	0.0498	P	2.7
5	☐	5000.000	4999.827	31645.24	0.0954	P	3.1
6	☐	10000.000	10101.025	60470.01	0.1920	P	0.7
7	☐	20000.000	19932.032	116588.40	0.3781	P	1.4
8	☐			244.45	0.0008	P	6.5

$$y = 1.8929E-005 * x + 8.0613E-004$$

$$R = 1.0000$$

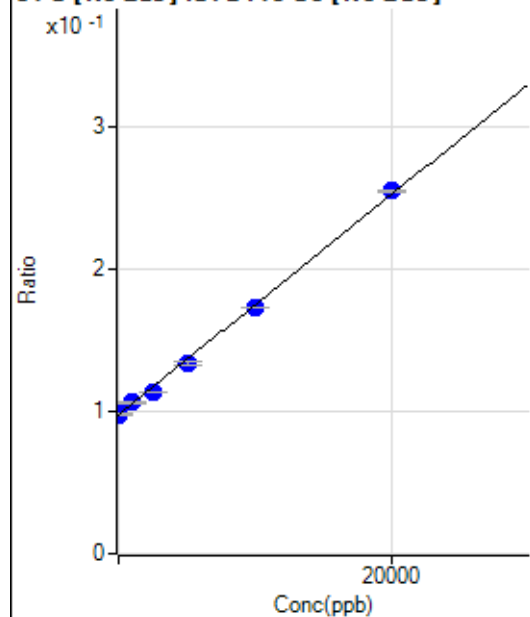
$$DL = 20.32$$

$$BEC = 42.59$$

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	-51.063	490514.17	0.0975	P	1.0
2	☐	0.000	51.063	494332.76	0.0983	P	0.5
3	☐	1000.000	1112.594	527359.22	0.1066	P	0.8
4	☐	2500.000	2022.794	559939.75	0.1136	P	0.6
5	☐	5000.000	4587.086	631841.88	0.1335	P	1.8
6	☐	10000.000	9704.615	779372.74	0.1732	P	0.5
7	☐	20000.000	20304.942	1112899.03	0.2554	P	0.6
8	☐			398717.11	0.0931	P	0.7

$$y = 7.7527\text{E-}006 * x + 0.0979$$

$$R = 0.9993$$

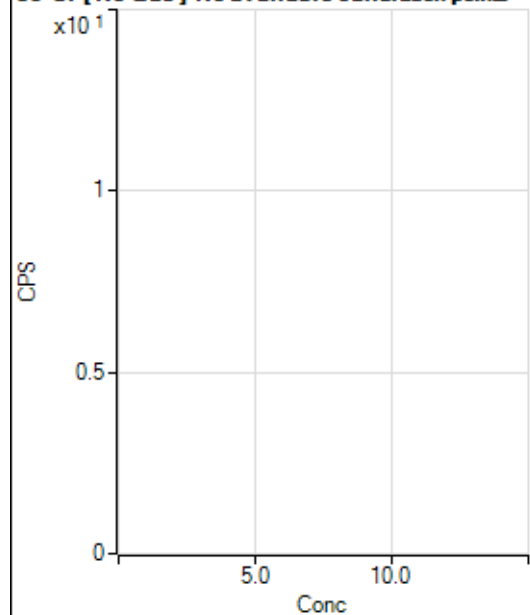
$$DL = 272.9$$

$$BEC = 1.263\text{E}+04$$

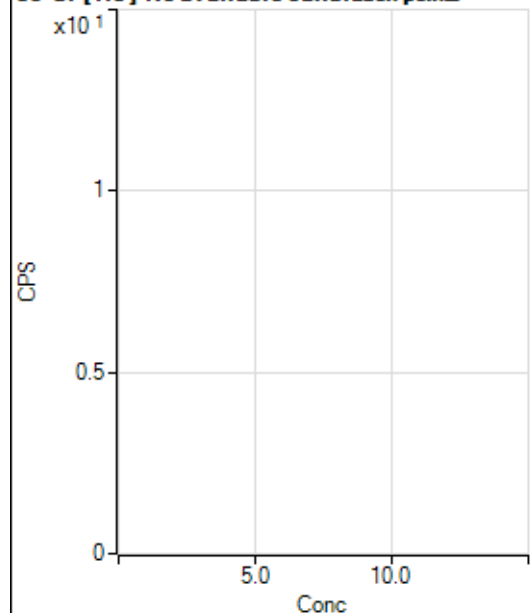
Weight: <None>

Min Conc: 0

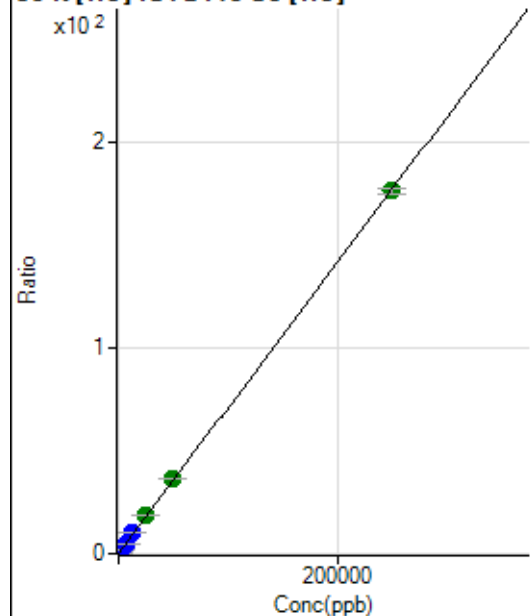
35 Cl [No Gas] No available calibration points



	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	40948.85	0.1172	P	5.9
2	☐	500.000	557.137	182724.50	0.5111	P	0.8
3	☐	2500.000	2954.028	740901.77	2.2057	P	1.5
4	☐	6250.000	7047.117	1732063.23	5.0994	P	0.3
5	☐	12500.000	13897.960	3297194.06	9.9429	P	1.1
6	☐	25000.000	26142.899	5857769.75	18.6000	A	0.6
7	☐	50000.000	51595.439	11283591.49	36.5947	A	0.9
8	☐	250000.00	249472.14	54167360.93	176.4916	A	1.7

$$y = 7.0699\text{E-}004 * x + 0.1172$$

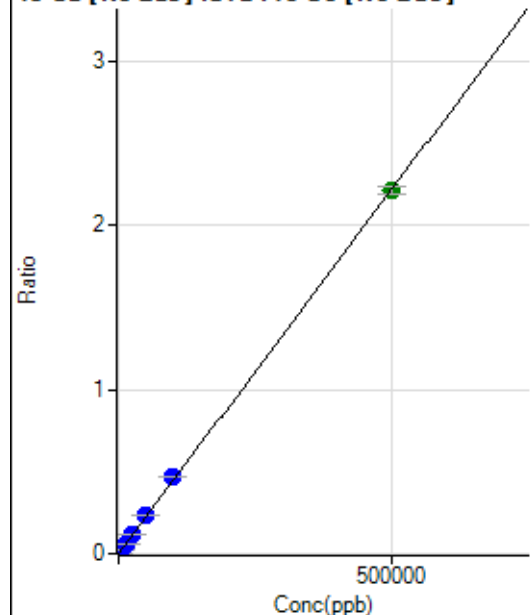
$$R = 1.0000$$

$$DL = 29.15$$

$$BEC = 165.8$$

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	108.33	0.0000	P	42.9
2	☐	500.000	536.341	12077.43	0.0024	P	3.9
3	☐	5000.000	5452.884	119904.24	0.0242	P	0.8
4	☐	12500.000	13373.927	292711.14	0.0594	P	0.3
5	☐	25000.000	26882.495	564990.24	0.1194	P	1.3
6	☐	50000.000	53313.851	1065342.18	0.2367	P	0.2
7	☐	100000.00	105822.72	2047709.53	0.4699	P	0.5
8	☐	500000.00	498383.53	9475787.19	2.2128	A	2.1

$$y = 4.4398\text{E-}006 * x + 2.1545\text{E-}005$$

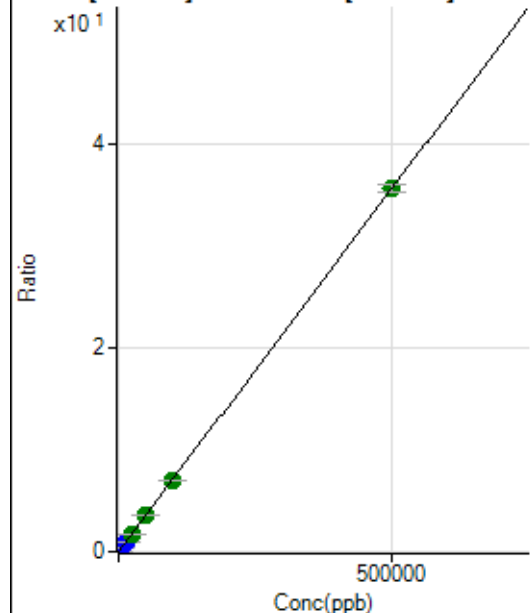
R = 0.9999

DL = 6.243

BEC = 4.853

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	4762.01	0.0009	P	0.5
2	☐	500.000	533.644	195633.95	0.0389	P	1.5
3	☐	5000.000	5341.597	1885474.02	0.3810	P	0.7
4	☐	12500.000	13251.709	4651363.56	0.9439	P	0.7
5	☐	25000.000	24862.949	8377264.51	1.7701	A	2.0
6	☐	50000.000	49557.382	15873852.44	3.5273	A	0.2
7	☐	100000.00	99047.775	30719773.95	7.0488	A	0.4
8	☐	500000.00	500219.31	152430170.0	35.5947	A	2.0

$$y = 7.1156\text{E-}005 * x + 9.4701\text{E-}004$$

R = 1.0000

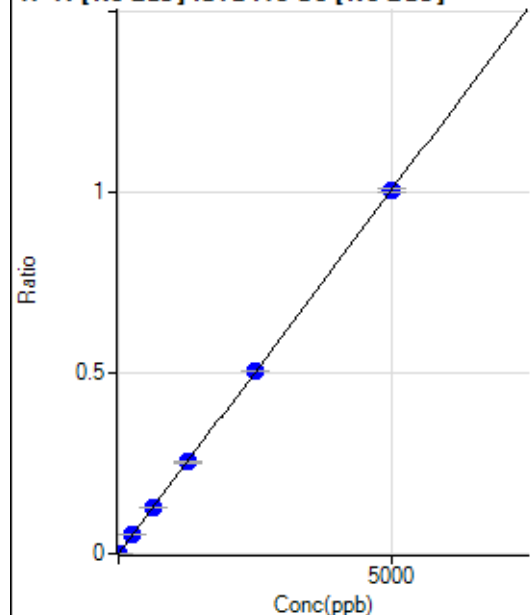
DL = 0.1888

BEC = 13.31

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0000	P	22.4
2	☐	5.000	5.236	5370.58	0.0011	P	6.6
3	☐	250.000	255.769	254613.03	0.0515	P	1.0
4	☐	625.000	628.737	623211.76	0.1265	P	0.5
5	☐	1250.000	1264.001	1203207.28	0.2542	P	1.5
6	☐	2500.000	2510.826	2272601.51	0.5050	P	0.7
7	☐	5000.000	4990.331	4374131.00	1.0037	P	1.0
8	☐			922.28	0.0002	P	11.9

$$y = 2.0112\text{E-}004 * x + 1.5472\text{E-}005$$

$$R = 1.0000$$

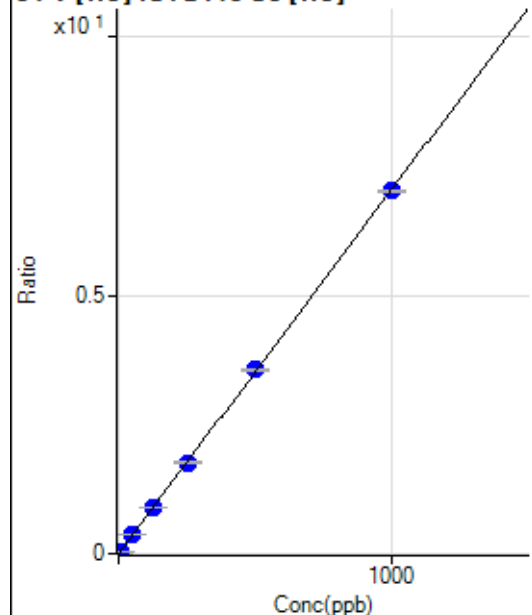
$$DL = 0.05174$$

$$BEC = 0.07693$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.67	0.0000	P	48.2
2	☐	5.000	5.255	13223.79	0.0370	P	1.9
3	☐	50.000	52.397	123824.70	0.3687	P	2.5
4	☐	125.000	126.697	302763.60	0.8914	P	0.4
5	☐	250.000	249.880	582939.68	1.7581	P	2.2
6	☐	500.000	505.307	1119635.05	3.5551	P	0.5
7	☐	1000.000	997.043	2162929.24	7.0148	P	0.8
8	☐			527.79	0.0017	P	7.1

$$y = 0.0070 * x + 1.8916\text{E-}005$$

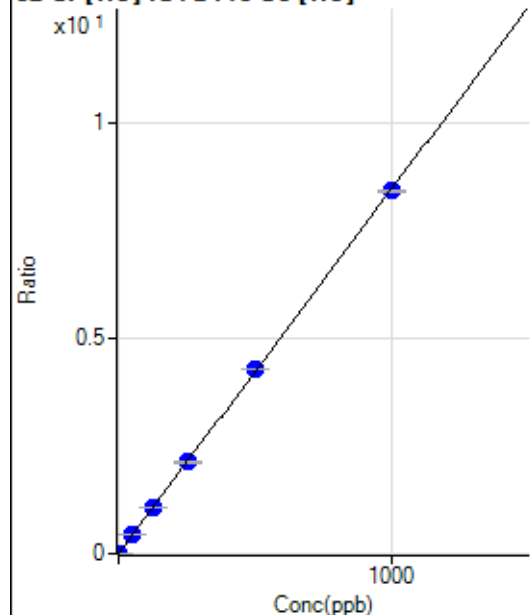
$$R = 1.0000$$

$$DL = 0.00389$$

$$BEC = 0.002689$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1243.40	0.0036	P	5.4
2	☐	2.000	2.123	7702.08	0.0215	P	1.3
3	☐	50.000	53.323	152928.06	0.4553	P	2.1
4	☐	125.000	127.711	368694.88	1.0855	P	0.1
5	☐	250.000	251.758	708378.24	2.1364	P	2.1
6	☐	500.000	506.964	1353741.82	4.2985	P	0.4
7	☐	1000.000	995.573	2601723.64	8.4378	P	0.7
8	☐			13786.52	0.0449	P	2.1

$$y = 0.0085 * x + 0.0036$$

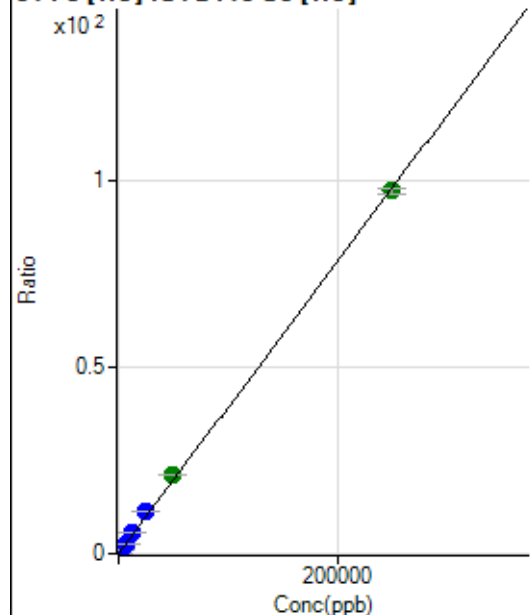
$$R = 1.0000$$

$$DL = 0.06762$$

$$BEC = 0.42$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	880.94	0.0025	P	1.7
2	☐	50.000	62.581	9633.07	0.0269	P	3.5
3	☐	2500.000	2997.192	393829.99	1.1725	P	1.9
4	☐	6250.000	7195.492	954836.31	2.8112	P	0.2
5	☐	12500.000	14231.500	1842823.87	5.5577	P	2.0
6	☐	25000.000	28583.847	3514715.22	11.1601	P	0.4
7	☐	50000.000	54160.642	6519575.33	21.1439	A	0.6
8	☐	250000.00	248694.30	29793504.33	97.0791	A	1.9

$$y = 3.9035E-004 * x + 0.0025$$

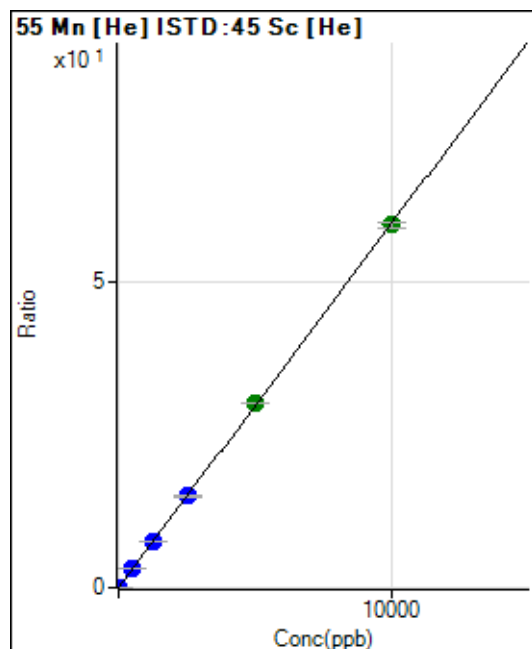
$$R = 0.9998$$

$$DL = 0.3256$$

$$BEC = 6.454$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	128.89	0.0004	P	18.2
2	☐	1.000	1.092	2459.12	0.0069	P	3.2
3	☐	500.000	528.360	1057884.44	3.1493	P	1.6
4	☐	1250.000	1265.000	2560873.94	7.5396	P	0.9
5	☐	2500.000	2520.971	4981879.68	15.0250	P	2.1
6	☐	5000.000	5056.319	9490759.37	30.1353	A	0.4
7	☐	10000.000	9963.305	18309084.45	59.3802	A	1.3
8	☐			11263.33	0.0367	P	2.9

$$y = 0.0060 * x + 3.6970E-004$$

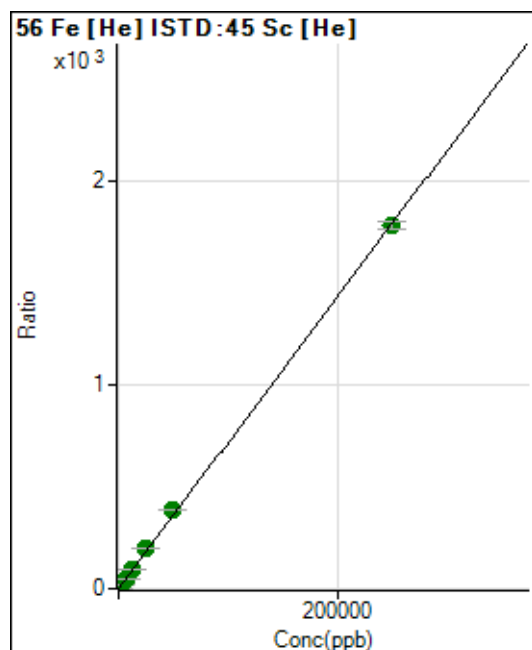
$$R = 1.0000$$

$$DL = 0.03389$$

$$BEC = 0.06203$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5962.41	0.0170	P	3.4
2	☐	50.000	58.492	155552.56	0.4351	P	1.3
3	☐	2500.000	2833.853	6809088.98	20.2711	A	1.7
4	☐	6250.000	6822.882	16568459.74	48.7815	A	0.3
5	☐	12500.000	13437.458	31849265.76	96.0571	A	2.5
6	☐	25000.000	27269.845	61388250.44	194.9197	A	0.2
7	☐	50000.000	53706.165	118361753.5	383.8651	A	0.8
8	☐	250000.00	248967.24	546087978.8	1.779432	A	2.1

$$y = 0.0071 * x + 0.0170$$

$$R = 0.9999$$

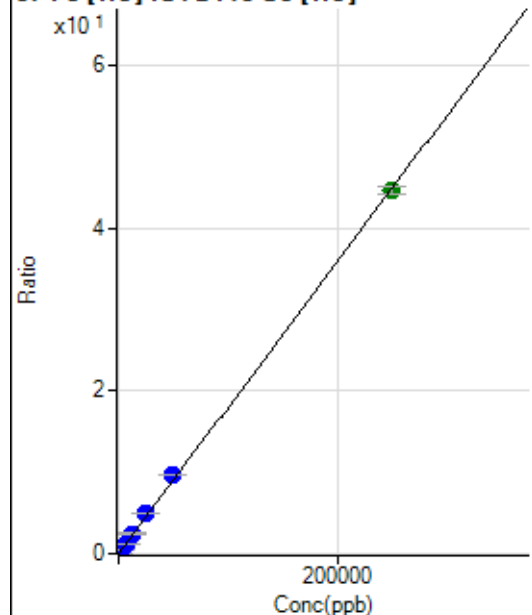
$$DL = 0.2467$$

$$BEC = 2.385$$

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	192.60	0.0005	P	21.5
2	☐	50.000	57.715	3898.73	0.0109	P	3.2
3	☐	2500.000	2911.774	175655.75	0.5230	P	2.2
4	☐	6250.000	6939.904	423104.56	1.2457	P	0.5
5	☐	12500.000	13780.268	819913.98	2.4729	P	2.5
6	☐	25000.000	27757.411	1568573.48	4.9806	P	0.5
7	☐	50000.000	54220.456	2999666.44	9.7285	P	0.9
8	☐	250000.00	248794.78	13698864.20	44.6381	A	2.1

$$y = 1.7941\text{E-}004 * x + 5.4933\text{E-}004$$

R = 0.9998

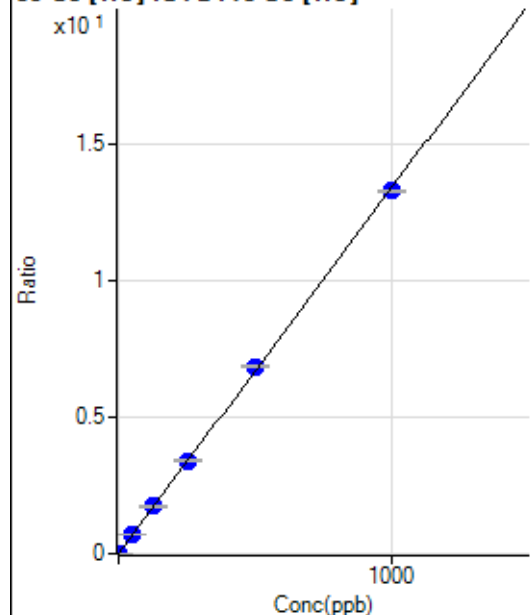
DL = 1.979

BEC = 3.062

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	127.78	0.0004	P	5.1
2	☐	1.000	1.090	5356.59	0.0150	P	1.1
3	☐	50.000	54.247	244368.08	0.7275	P	2.3
4	☐	125.000	129.176	588282.83	1.7320	P	0.9
5	☐	250.000	254.934	1133194.51	3.4178	P	2.4
6	☐	500.000	512.098	2162067.78	6.8651	P	0.5
7	☐	1000.000	991.983	4100344.87	13.2980	P	0.4
8	☐			6226.93	0.0203	P	0.5

$$y = 0.0134 * x + 3.6509\text{E-}004$$

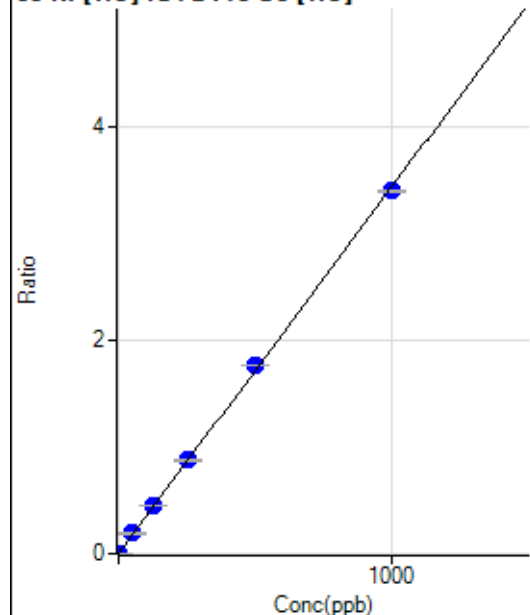
R = 0.9999

DL = 0.004169

BEC = 0.02724

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	176.67	0.0005	P	8.6
2	☐	1.000	1.100	1533.43	0.0043	P	4.9
3	☐	50.000	54.979	63685.11	0.1896	P	1.3
4	☐	125.000	131.369	153618.59	0.4523	P	0.8
5	☐	250.000	255.631	291632.26	0.8797	P	3.1
6	☐	500.000	514.497	557407.31	1.7699	P	0.9
7	☐	1000.000	990.299	1050292.75	3.4063	P	0.7
8	☐			4180.64	0.0136	P	1.7

$$y = 0.0034 * x + 5.0577E-004$$

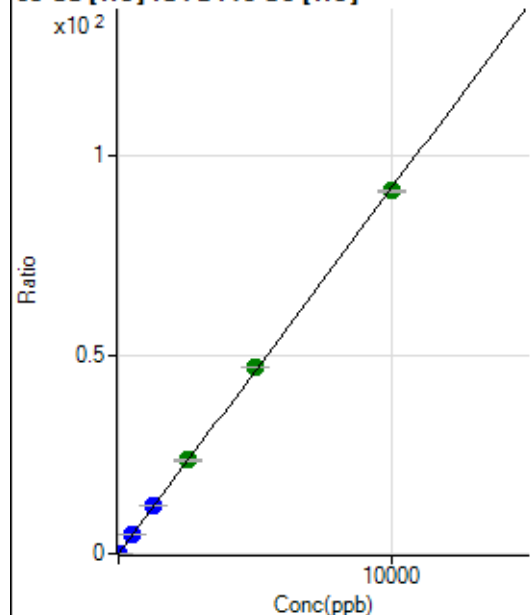
$$R = 0.9998$$

$$DL = 0.03812$$

$$BEC = 0.1471$$

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	722.25	0.0021	P	9.6
2	☐	2.000	2.229	8055.62	0.0225	P	2.3
3	☐	500.000	544.051	1679030.91	4.9990	P	2.6
4	☐	1250.000	1293.695	4036471.26	11.8843	P	0.3
5	☐	2500.000	2555.957	7784944.05	23.4778	A	2.1
6	☐	5000.000	5103.789	14764051.86	46.8789	A	0.1
7	☐	10000.000	9926.452	28112421.52	91.1738	A	0.8
8	☐			8383.57	0.0273	P	2.2

$$y = 0.0092 * x + 0.0021$$

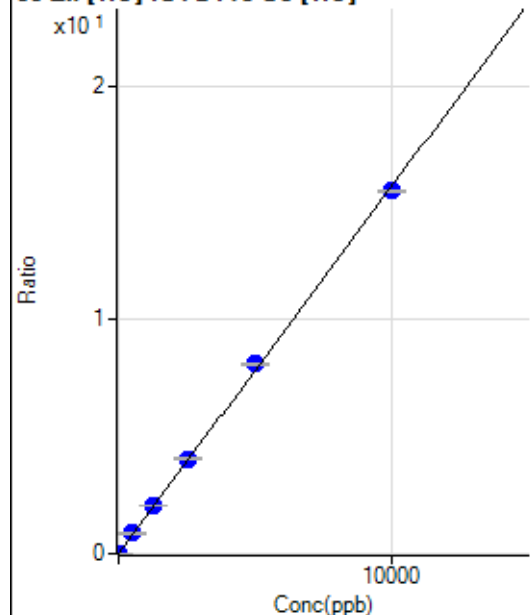
$$R = 0.9999$$

$$DL = 0.06462$$

$$BEC = 0.2246$$

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	398.90	0.0011	P	5.9
2	☐	2.000	2.528	1824.58	0.0051	P	4.6
3	☐	500.000	550.558	290281.16	0.8643	P	2.4
4	☐	1250.000	1319.398	702920.64	2.0696	P	0.4
5	☐	2500.000	2581.314	1342185.59	4.0479	P	2.1
6	☐	5000.000	5164.712	2550285.97	8.0979	P	0.9
7	☐	10000.000	9886.113	4779156.11	15.4997	P	0.8
8	☐			8661.53	0.0282	P	3.0

$$y = 0.0016 * x + 0.0011$$

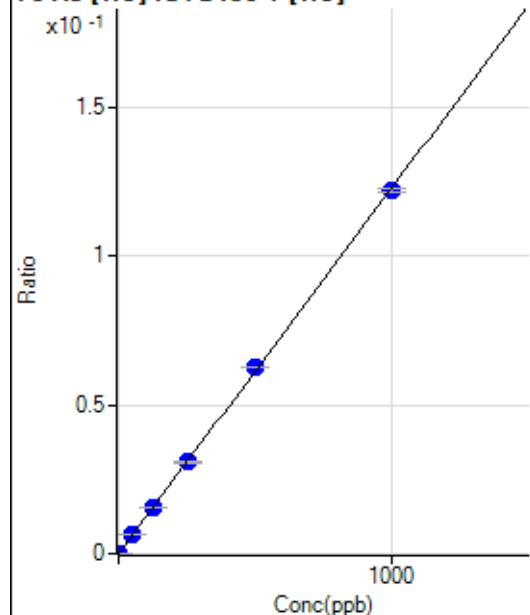
$$R = 0.9998$$

$$DL = 0.1293$$

$$BEC = 0.7273$$

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	8.03	0.0000	P	27.5
2	☐	1.000	1.102	369.76	0.0001	P	8.4
3	☐	50.000	54.131	16781.30	0.0066	P	1.4
4	☐	125.000	127.420	40252.30	0.0156	P	0.7
5	☐	250.000	251.649	77879.93	0.0309	P	1.5
6	☐	500.000	511.760	150867.33	0.0628	P	0.1
7	☐	1000.000	993.198	287461.60	0.1218	P	0.9
8	☐			102.47	0.0000	P	14.0

$$y = 1.2267E-004 * x + 3.0926E-006$$

$$R = 0.9999$$

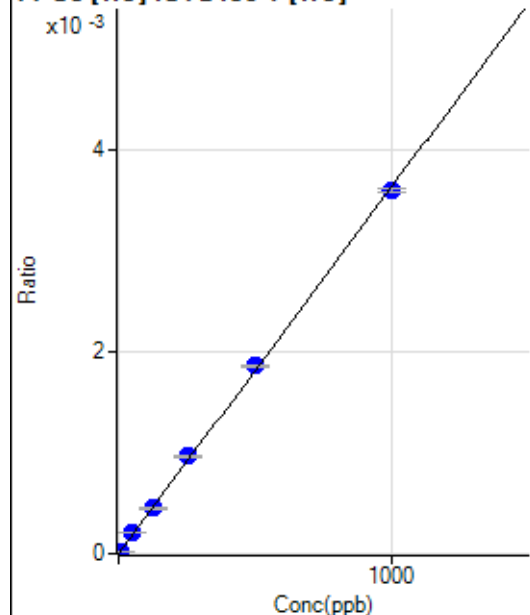
$$DL = 0.02081$$

$$BEC = 0.02521$$

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	5.491	53.33	0.0000	P	25.1
3	☐	50.000	59.208	543.35	0.0002	P	1.5
4	☐	125.000	124.132	1161.17	0.0005	P	7.0
5	☐	250.000	266.321	2440.23	0.0010	P	2.3
6	☐	500.000	511.920	4468.51	0.0019	P	1.3
7	☐	1000.000	989.606	8481.43	0.0036	P	1.2
8	☐			3.33	0.0000	P	98.9

$$y = 3.6323\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

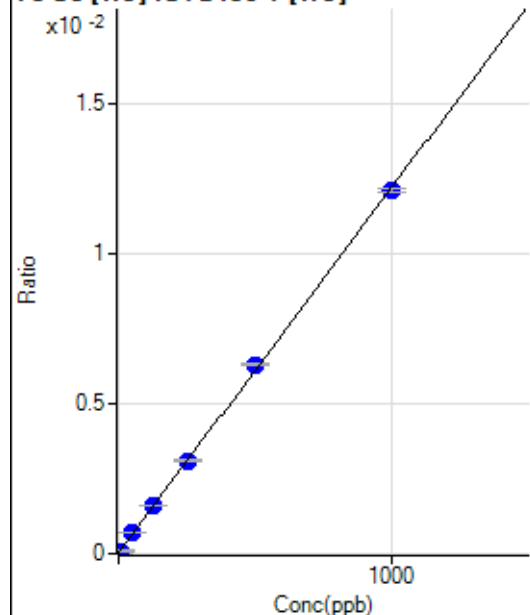
$$DL = 0$$

$$BEC = 0$$

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	82.10	0.0000	P	10.5
2	☐	5.000	5.288	256.79	0.0001	P	19.0
3	☐	50.000	55.209	1778.51	0.0007	P	2.3
4	☐	125.000	130.808	4182.10	0.0016	P	0.9
5	☐	250.000	251.132	7793.48	0.0031	P	1.6
6	☐	500.000	514.569	15133.23	0.0063	P	1.2
7	☐	1000.000	991.445	28558.22	0.0121	P	0.9
8	☐			73.46	0.0000	P	2.4

$$y = 1.2176\text{E-}005 * x + 3.1611\text{E-}005$$

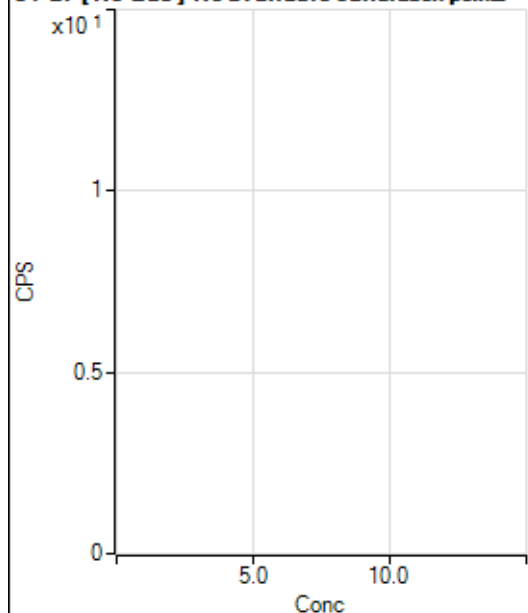
$$R = 0.9998$$

$$DL = 0.8171$$

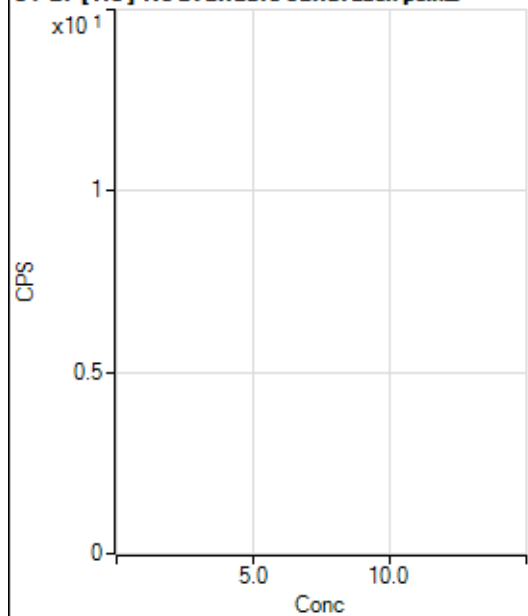
$$BEC = 2.596$$

Weight: <None>

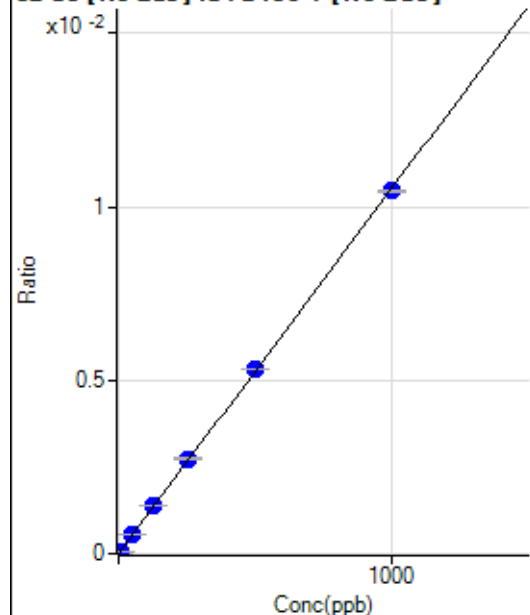
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7930.17		P	2.5
2	☐			7982.98		P	1.8
3	☐			7980.20		P	6.5
4	☐			7513.28		P	3.1
5	☐			7215.93		P	5.5
6	☐			6640.59		P	1.8
7	☐			6954.61		P	3.4
8	☐			6259.87		P	6.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.68		P	69.3
2	☐			23.36		P	65.5
3	☐			36.70		P	68.6
4	☐			13.35		P	86.6
5	☐			43.38		P	26.6
6	☐			33.37		P	75.5
7	☐			26.69		P	78.1
8	☐			46.71		P	53.9

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.85	0.0000	P	620.4
2	☐	5.000	5.342	710.01	0.0001	P	4.1
3	☐	50.000	52.372	6732.89	0.0006	P	1.9
4	☐	125.000	131.483	16995.70	0.0014	P	2.7
5	☐	250.000	260.077	32530.15	0.0027	P	2.6
6	☐	500.000	504.871	61077.06	0.0053	P	0.4
7	☐	1000.000	994.115	117062.59	0.0105	P	0.7
8	☐			-29.76	0.0000	P	-323.

$$y = 1.0515E-005 * x + 6.4168E-007$$

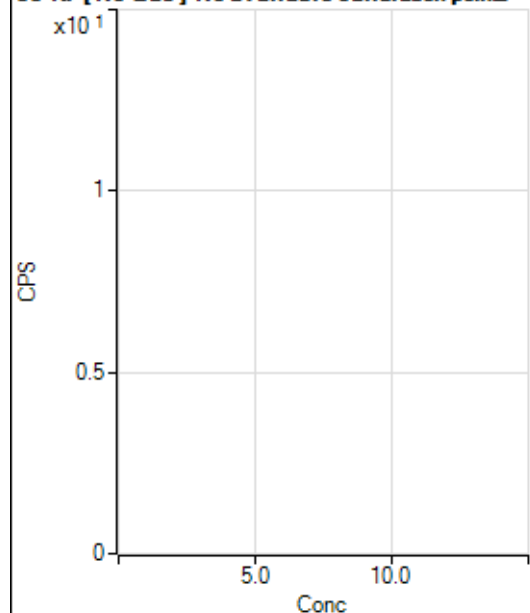
$$R = 0.9999$$

$$DL = 1.136$$

$$BEC = 0.06103$$

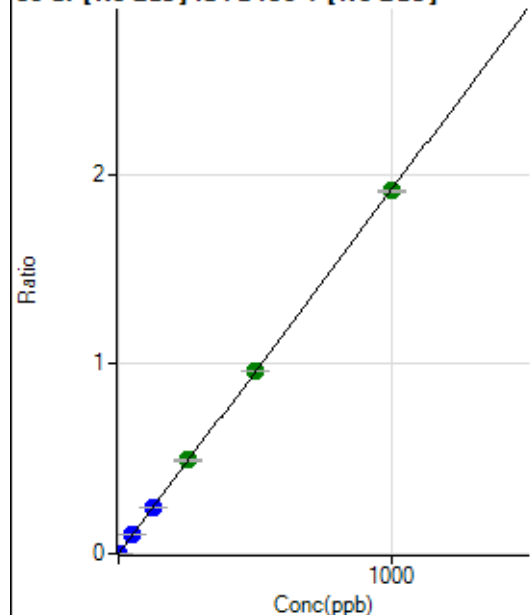
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			730.03		P	6.6
2	☐			726.69		P	6.4
3	☐			793.36		P	1.3
4	☐			708.91		P	5.6
5	☐			701.13		P	7.2
6	☐			710.02		P	5.4
7	☐			667.80		P	7.5
8	☐			676.69		P	15.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1100.07	0.0001	P	15.1
2	☐	1.000	0.126	4128.48	0.0003	P	5.0
3	☐	50.000	51.500	1208726.75	0.0990	P	1.6
4	☐	125.000	126.788	2992869.75	0.2435	P	0.8
5	☐	250.000	257.096	5872079.95	0.4937	A	2.4
6	☐	500.000	501.852	11085920.04	0.9637	A	0.7
7	☐	1000.000	997.002	21439449.44	1.9144	A	0.7
8	☐			6195.94	0.0006	P	2.3

$$y = 0.0019 * x + 8.9313E-005$$

$$R = 1.0000$$

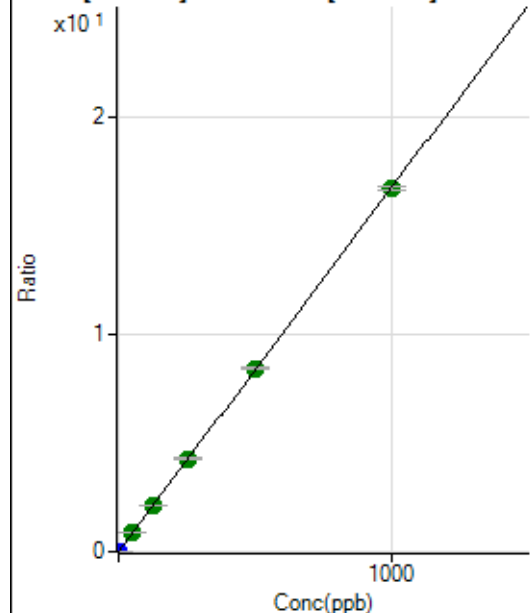
$$DL = 0.02108$$

$$BEC = 0.04652$$

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	261.12	0.0000	P	17.4
2	☐	1.000	0.111	23547.55	0.0019	P	1.8
3	☐	50.000	51.313	10504023.15	0.8600	A	1.2
4	☐	125.000	126.119	25979214.82	2.1138	A	0.6
5	☐	250.000	254.002	50632852.52	4.2572	A	2.3
6	☐	500.000	504.216	97218987.59	8.4509	A	0.4
7	☐	1000.000	996.687	187081420.8	16.7050	A	1.0
8	☐			47724.26	0.0044	P	0.9

$$y = 0.0168 * x + 2.1191E-005$$

$$R = 1.0000$$

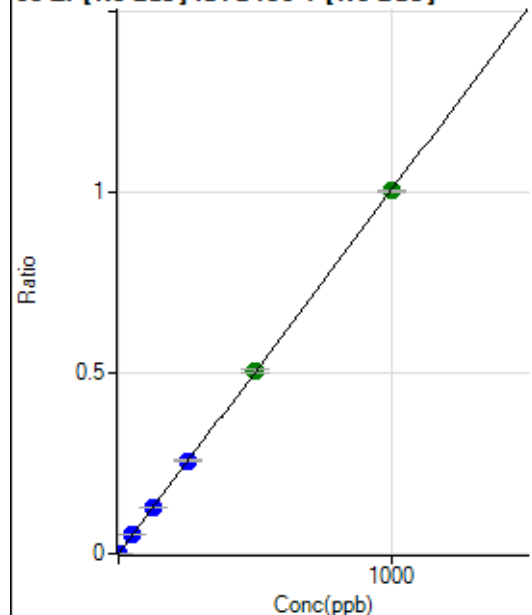
$$DL = 0.0006595$$

$$BEC = 0.001264$$

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	688.92	0.0001	P	3.8
2	☐	1.000	0.956	12711.47	0.0010	P	2.1
3	☐	50.000	51.047	627453.39	0.0514	P	1.1
4	☐	125.000	126.590	1564705.56	0.1273	P	0.7
5	☐	250.000	254.353	3041897.18	0.2558	P	2.2
6	☐	500.000	501.808	5803752.82	0.5045	A	1.4
7	☐	1000.000	997.757	11233404.85	1.0031	A	0.7
8	☐			2525.31	0.0002	P	3.2

$$y = 0.0010 * x + 5.5924E-005$$

$$R = 1.0000$$

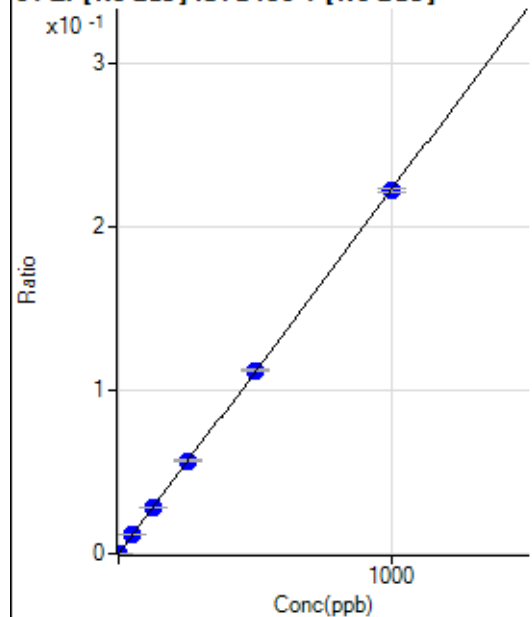
$$DL = 0.006292$$

$$BEC = 0.05563$$

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	152.78	0.0000	P	52.0
2	☐	1.000	1.038	3047.62	0.0002	P	3.8
3	☐	50.000	51.159	139548.50	0.0114	P	1.8
4	☐	125.000	127.715	350338.55	0.0285	P	0.7
5	☐	250.000	255.866	679108.00	0.0571	P	2.1
6	☐	500.000	503.429	1292184.35	0.1123	P	1.5
7	☐	1000.000	996.422	2489666.09	0.2223	P	0.9
8	☐			569.47	0.0001	P	13.4

$$y = 2.2311E-004 * x + 1.2412E-005$$

$$R = 1.0000$$

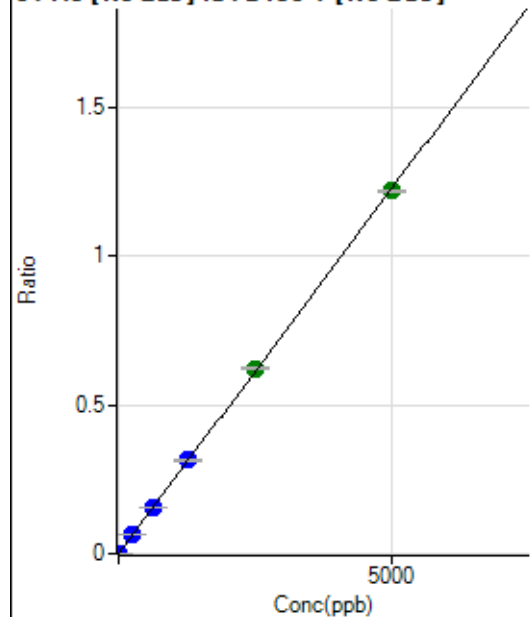
$$DL = 0.08685$$

$$BEC = 0.05563$$

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	247.23	0.0000	P	34.0
2	☐	5.000	5.199	16176.17	0.0013	P	0.8
3	☐	250.000	258.395	773855.37	0.0634	P	1.3
4	☐	625.000	637.695	1921322.98	0.1563	P	1.3
5	☐	1250.000	1280.542	3733877.95	0.3139	P	1.9
6	☐	2500.000	2533.362	7144190.87	0.6210	A	1.0
7	☐	5000.000	4973.676	13653891.80	1.2193	A	0.6
8	☐			4737.02	0.0004	P	7.1

$$y = 2.4514\text{E-}004 * x + 2.0077\text{E-}005$$

$$R = 0.9999$$

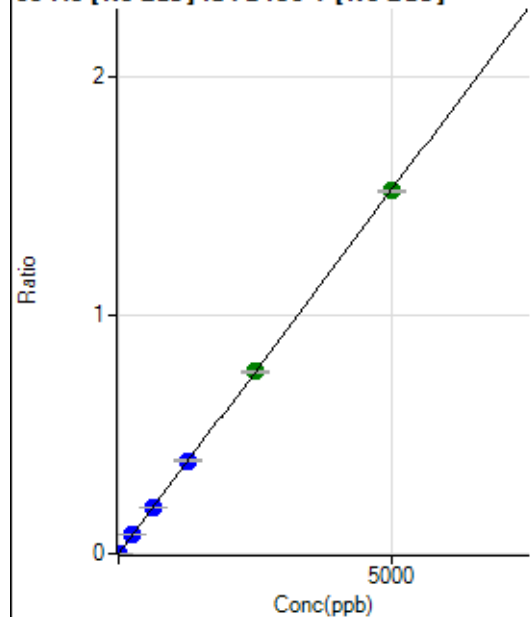
$$DL = 0.08347$$

$$BEC = 0.0819$$

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	41.67	0.0000	P	34.6
2	☐	5.000	5.162	19716.75	0.0016	P	2.8
3	☐	250.000	257.884	960558.65	0.0786	P	1.1
4	☐	625.000	636.953	2387183.11	0.1942	P	1.1
5	☐	1250.000	1279.063	4639353.49	0.3901	P	2.1
6	☐	2500.000	2507.372	8796250.63	0.7647	A	1.1
7	☐	5000.000	4987.160	17032073.82	1.5209	A	0.2
8	☐			7010.21	0.0006	P	12.3

$$y = 3.0496\text{E-}004 * x + 3.3823\text{E-}006$$

$$R = 1.0000$$

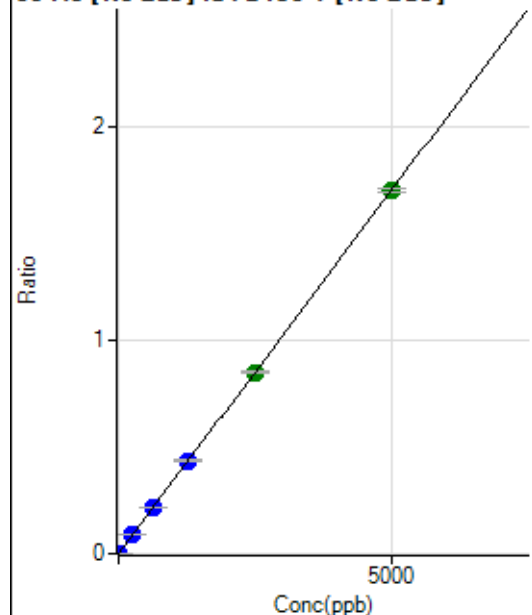
$$DL = 0.01153$$

$$BEC = 0.01109$$

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	108.33	0.0000	P	13.3
2	☐	5.000	5.094	21752.99	0.0017	P	2.3
3	☐	250.000	257.044	1067497.55	0.0874	P	0.6
4	☐	625.000	634.960	2653014.80	0.2159	P	1.3
5	☐	1250.000	1281.198	5180822.08	0.4356	P	2.1
6	☐	2500.000	2497.991	9769910.81	0.8493	A	0.7
7	☐	5000.000	4991.607	19004298.17	1.6971	A	1.0
8	☐			8291.50	0.0008	P	8.0

$$y = 3.3998E-004 * x + 8.7939E-006$$

$$R = 1.0000$$

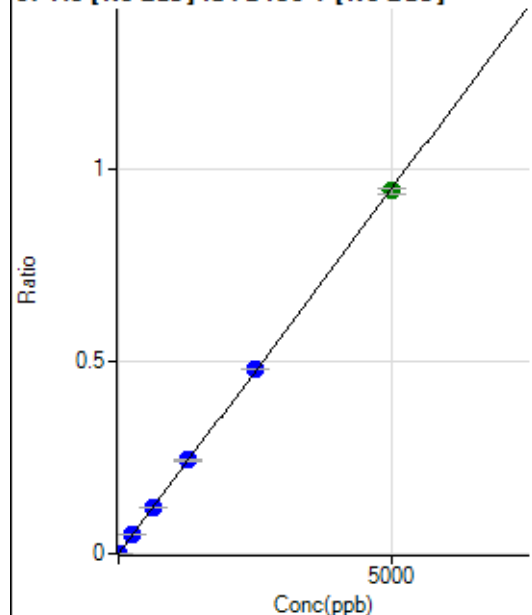
$$DL = 0.01034$$

$$BEC = 0.02587$$

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	16.66	0.0000	P	86.4
2	☐	5.000	5.106	12133.22	0.0010	P	4.1
3	☐	250.000	259.481	601792.66	0.0493	P	1.2
4	☐	625.000	638.400	1489758.58	0.1212	P	1.2
5	☐	1250.000	1286.928	2906574.91	0.2444	P	1.9
6	☐	2500.000	2530.886	5528449.17	0.4806	P	1.0
7	☐	5000.000	4973.176	10574769.51	0.9443	A	1.7
8	☐			4214.64	0.0004	P	11.6

$$y = 1.8989E-004 * x + 1.3511E-006$$

$$R = 0.9999$$

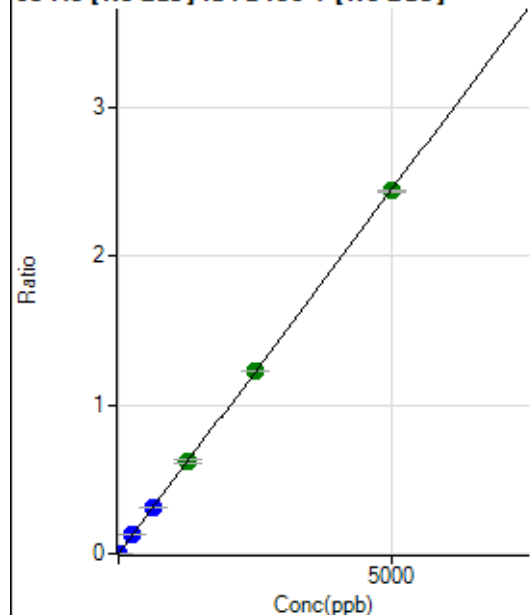
$$DL = 0.01845$$

$$BEC = 0.007115$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0000	P	22.2
2	☐	5.000	5.106	31298.65	0.0025	P	3.2
3	☐	250.000	259.650	1551798.27	0.1271	P	0.9
4	☐	625.000	641.263	3856147.79	0.3138	P	1.0
5	☐	1250.000	1272.940	7406924.99	0.6229	A	3.4
6	☐	2500.000	2510.224	14129689.03	1.2283	A	0.9
7	☐	5000.000	4986.638	27325033.42	2.4400	A	0.4
8	☐			10612.53	0.0010	P	8.0

$$y = 4.8931E-004 * x + 6.3124E-006$$

$$R = 1.0000$$

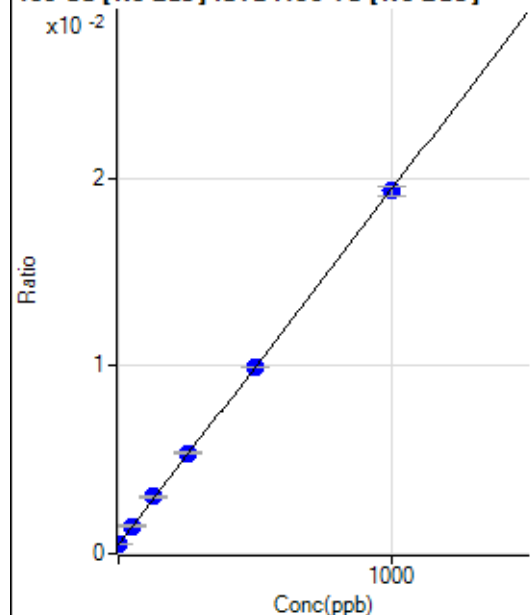
$$DL = 0.008579$$

$$BEC = 0.0129$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5770.76	0.0005	P	1.3
2	☐	1.000	1.064	6026.46	0.0005	P	1.4
3	☐	50.000	53.032	17878.37	0.0015	P	2.2
4	☐	125.000	135.699	36878.97	0.0030	P	1.9
5	☐	250.000	258.871	63745.99	0.0054	P	0.3
6	☐	500.000	500.863	116152.70	0.0099	P	0.5
7	☐	1000.000	995.862	221748.67	0.0193	P	2.3
8	☐			5290.03	0.0005	P	2.4

$$y = 1.8909E-005 * x + 4.7746E-004$$

$$R = 0.9999$$

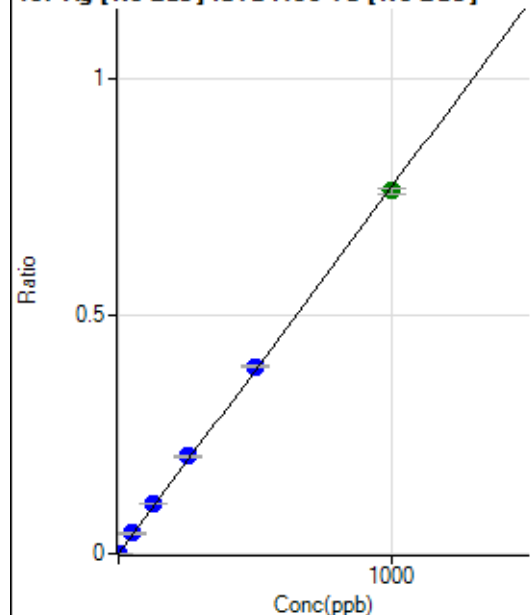
$$DL = 0.9666$$

$$BEC = 25.25$$

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	91.67	0.0000	P	16.2
2	☐	1.000	1.109	10454.11	0.0009	P	1.7
3	☐	50.000	55.083	513462.90	0.0425	P	1.2
4	☐	125.000	135.668	1268872.86	0.1047	P	1.7
5	☐	250.000	265.393	2430255.37	0.2048	P	0.5
6	☐	500.000	510.092	4596344.16	0.3937	P	0.8
7	☐	1000.000	989.518	8770855.23	0.7637	A	1.4
8	☐			2364.15	0.0002	P	6.5

$$y = 7.7174\text{E-}004 * x + 7.5878\text{E-}006$$

$$R = 0.9998$$

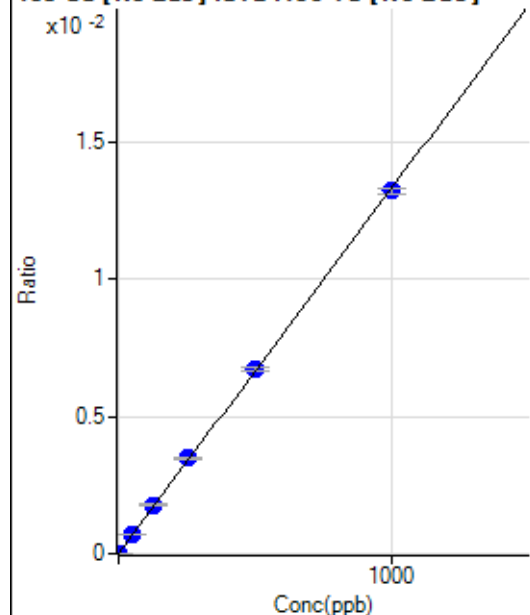
$$DL = 0.004771$$

$$BEC = 0.009832$$

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	50.00	0.0000	P	44.0
2	☐	1.000	1.259	252.78	0.0000	P	13.5
3	☐	50.000	53.444	8624.92	0.0007	P	1.4
4	☐	125.000	133.755	21585.99	0.0018	P	1.1
5	☐	250.000	260.499	41114.95	0.0035	P	1.4
6	☐	500.000	505.750	78502.34	0.0067	P	1.7
7	☐	1000.000	993.233	151607.58	0.0132	P	1.7
8	☐			173.61	0.0000	P	7.2

$$y = 1.3286\text{E-}005 * x + 4.1361\text{E-}006$$

$$R = 0.9999$$

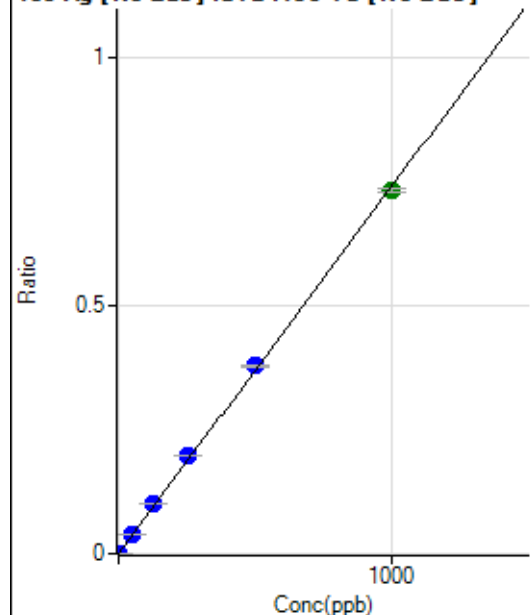
$$DL = 0.4105$$

$$BEC = 0.3113$$

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	11.11	0.0000	P	86.6
2	☐	1.000	1.043	9369.98	0.0008	P	0.9
3	☐	50.000	54.746	489980.68	0.0406	P	0.8
4	☐	125.000	136.136	1222601.52	0.1009	P	1.3
5	☐	250.000	266.352	2342029.50	0.1974	P	0.8
6	☐	500.000	511.458	4425437.12	0.3790	P	1.3
7	☐	1000.000	988.554	8414527.53	0.7326	A	1.1
8	☐			2091.87	0.0002	P	2.9

$$y = 7.4108\text{E-}004 * x + 9.1600\text{E-}007$$

$$R = 0.9997$$

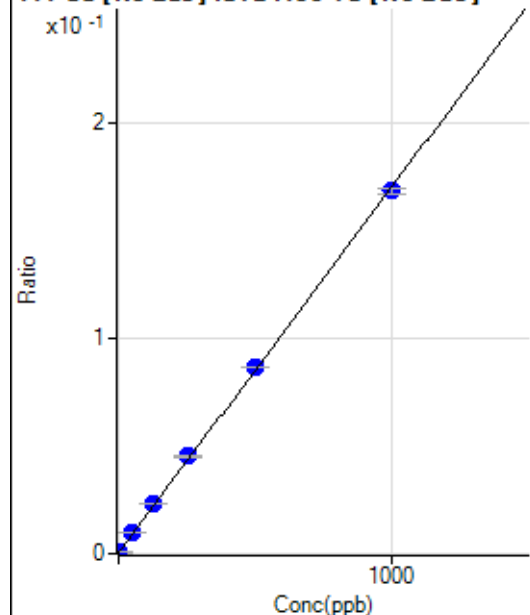
$$DL = 0.003211$$

$$BEC = 0.001236$$

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	4014.26	0.0003	P	1.6
2	☐	1.000	1.142	6368.18	0.0005	P	2.4
3	☐	50.000	54.350	115340.55	0.0096	P	0.6
4	☐	125.000	134.738	280967.45	0.0232	P	1.3
5	☐	250.000	264.432	536086.39	0.0452	P	1.0
6	☐	500.000	509.129	1012120.75	0.0867	P	0.5
7	☐	1000.000	990.393	1933124.20	0.1683	P	1.3
8	☐			3866.22	0.0003	P	2.8

$$y = 1.6961\text{E-}004 * x + 3.3213\text{E-}004$$

$$R = 0.9998$$

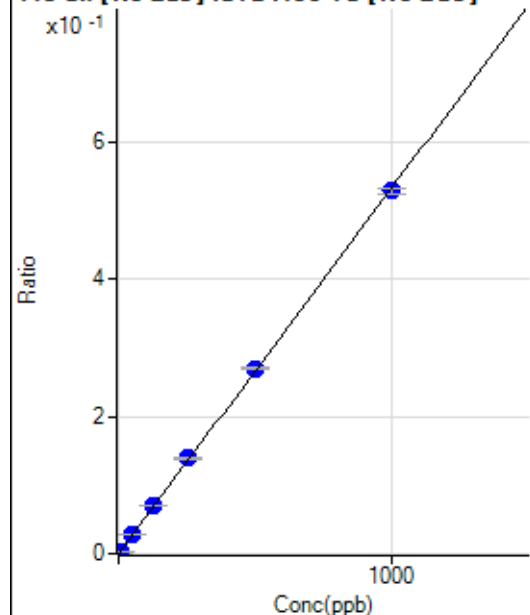
$$DL = 0.0945$$

$$BEC = 1.958$$

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	605.59	0.0001	P	4.7
2	☐	5.000	5.362	35239.00	0.0029	P	1.1
3	☐	50.000	52.639	339606.65	0.0281	P	1.1
4	☐	125.000	131.461	850132.41	0.0702	P	1.8
5	☐	250.000	261.269	1653721.11	0.1394	P	0.9
6	☐	500.000	506.668	3155239.28	0.2702	P	1.4
7	☐	1000.000	992.908	6081992.93	0.5295	P	1.3
8	☐			2842.04	0.0003	P	8.8

$$y = 5.3327E-004 * x + 5.0101E-005$$

$$R = 0.9999$$

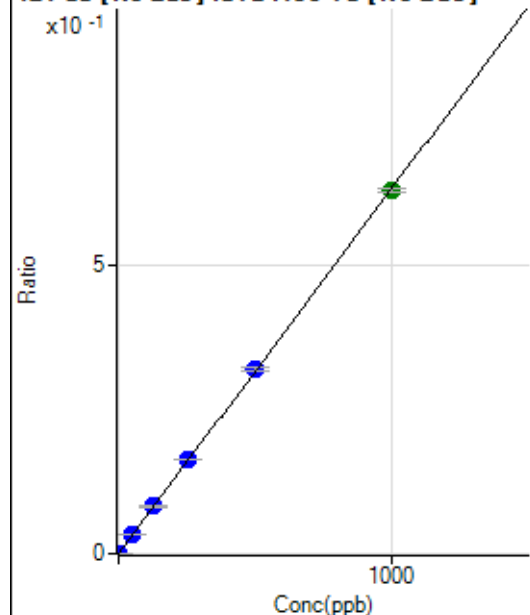
$$DL = 0.01338$$

$$BEC = 0.09395$$

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	8.5
2	☐	2.000	2.099	16237.52	0.0013	P	1.2
3	☐	50.000	51.369	393436.74	0.0326	P	0.7
4	☐	125.000	129.273	993311.10	0.0820	P	1.7
5	☐	250.000	256.875	1932455.34	0.1629	P	0.8
6	☐	500.000	506.271	3747710.67	0.3210	P	1.4
7	☐	1000.000	994.543	7242226.29	0.6306	A	0.9
8	☐			7324.33	0.0006	P	2.9

$$y = 6.3400E-004 * x + 9.8849E-006$$

$$R = 0.9999$$

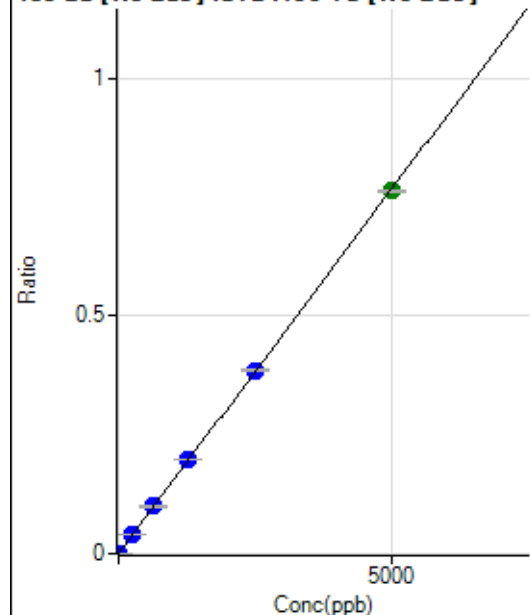
$$DL = 0.003983$$

$$BEC = 0.01559$$

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	22.22	0.0000	P	44.0
2	☐	10.000	10.469	19450.17	0.0016	P	0.6
3	☐	250.000	259.669	480510.49	0.0398	P	0.8
4	☐	625.000	647.476	1202233.28	0.0992	P	1.4
5	☐	1250.000	1288.485	2342425.20	0.1974	P	1.2
6	☐	2500.000	2517.984	4504551.71	0.3858	P	0.9
7	☐	5000.000	4978.093	8760660.53	0.7627	A	0.6
8	☐			2561.42	0.0002	P	2.7

$$y = 1.5322\text{E-}004 * x + 1.8421\text{E-}006$$

$$R = 1.0000$$

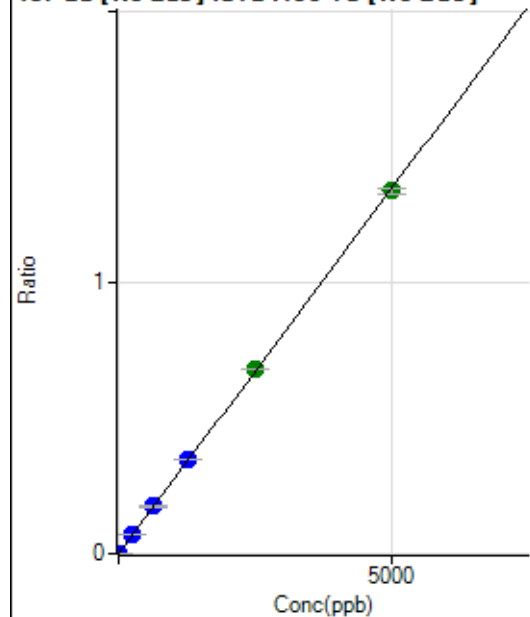
$$DL = 0.01587$$

$$BEC = 0.01202$$

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	33.33	0.0000	P	65.6
2	☐	10.000	10.574	34457.29	0.0028	P	2.6
3	☐	250.000	260.922	847113.69	0.0701	P	1.0
4	☐	625.000	652.447	2125370.10	0.1754	P	2.2
5	☐	1250.000	1289.763	4113899.05	0.3467	P	0.6
6	☐	2500.000	2530.386	7942224.83	0.6802	A	0.8
7	☐	5000.000	4970.888	15348478.12	1.3363	A	1.2
8	☐			4559.20	0.0004	P	9.8

$$y = 2.6882\text{E-}004 * x + 2.7511\text{E-}006$$

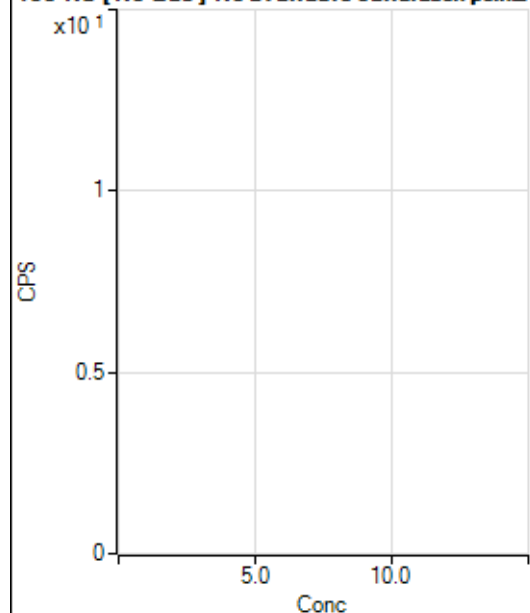
$$R = 0.9999$$

$$DL = 0.02015$$

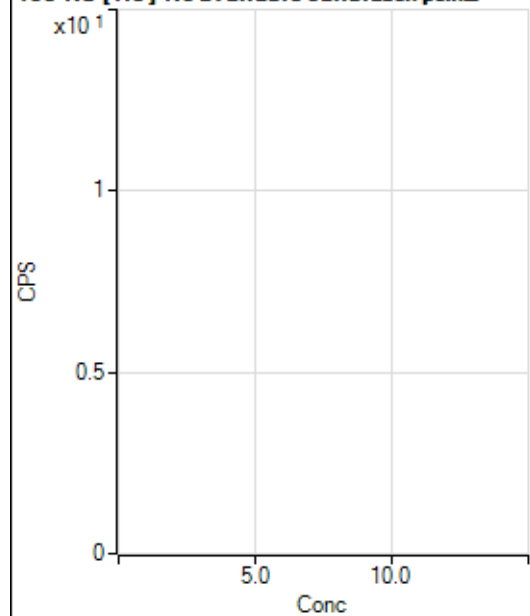
$$BEC = 0.01023$$

Weight: <None>

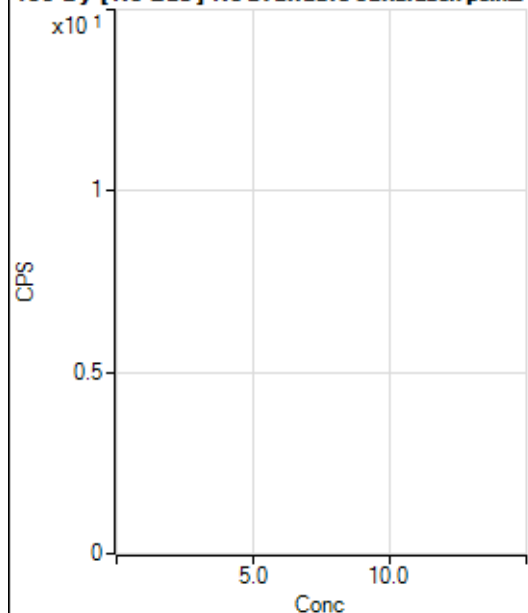
Min Conc: 0

150 Nd [No Gas] No available calibration points

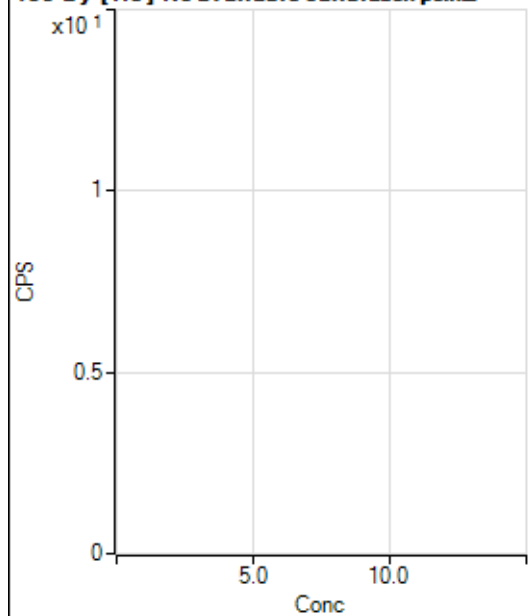
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			6.67		P	173.2
3	☐			46.67		P	14.3
4	☐			106.67		P	25.0
5	☐			277.79		P	7.3
6	☐			382.24		P	13.5
7	☐			782.26		P	9.4
8	☐			31.11		P	81.1

150 Nd [He] No available calibration points

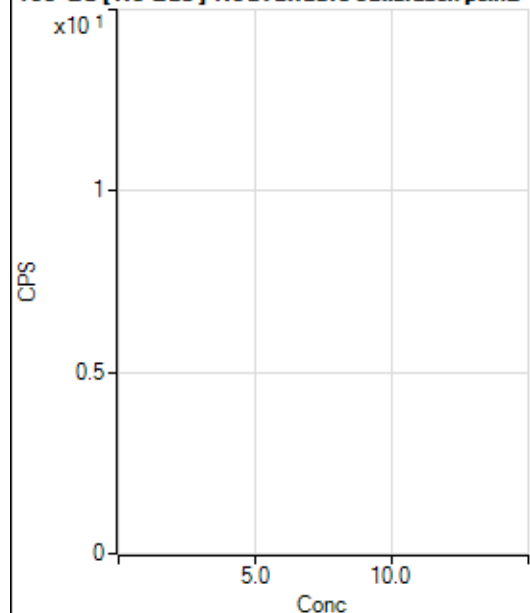
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	173.2
3	☐			11.11		P	62.5
4	☐			21.11		P	81.0
5	☐			27.78		P	36.7
6	☐			78.89		P	10.6
7	☐			122.23		P	20.5
8	☐			7.78		P	49.5

156 Dy [No Gas] No available calibration points

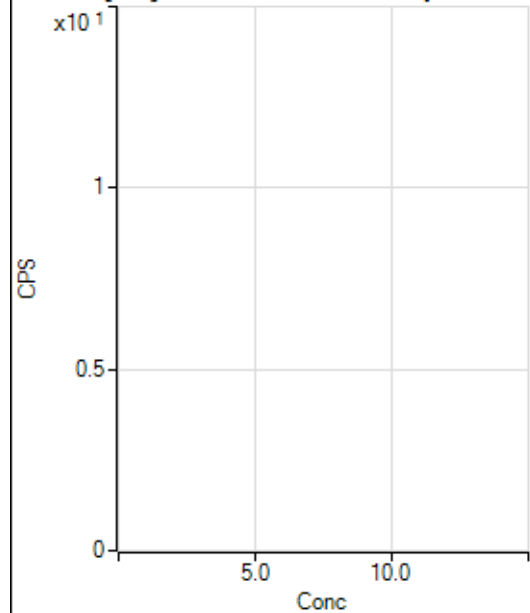
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.0
2	☐			11.11		P	43.3
3	☐			41.67		P	52.9
4	☐			61.11		P	20.8
5	☐			172.23		P	29.6
6	☐			302.79		P	13.6
7	☐			536.13		P	13.2
8	☐			1361.22		P	6.2

156 Dy [He] No available calibration points

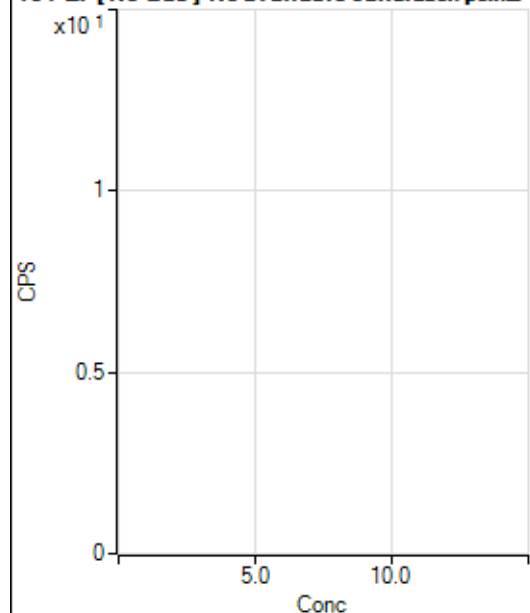
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			1.11		P	173.2
3	☐			21.11		P	18.2
4	☐			51.11		P	10.0
5	☐			115.56		P	17.6
6	☐			262.22		P	12.7
7	☐			453.34		P	8.0
8	☐			881.15		P	7.0

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

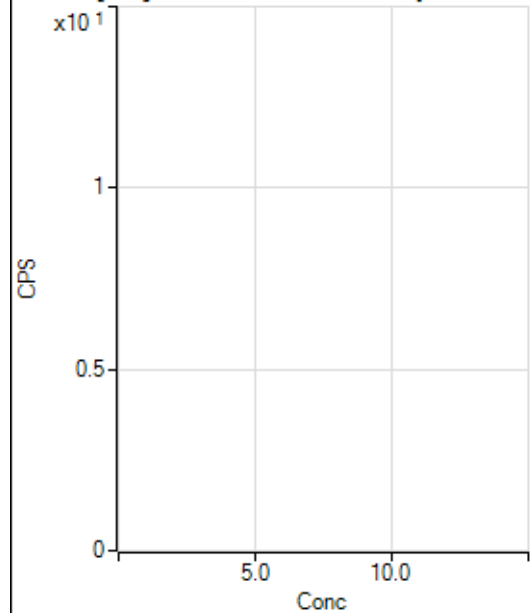
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	71.8
2	☐			66.67		P	12.5
3	☐			108.34		P	20.3
4	☐			133.34		P	22.5
5	☐			191.67		P	17.4
6	☐			269.45		P	20.1
7	☐			502.80		P	5.8
8	☐			1552.91		P	11.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			147.78		P	16.9
2	☐			135.56		P	15.8
3	☐			178.89		P	23.4
4	☐			182.23		P	2.8
5	☐			225.56		P	1.7
6	☐			308.90		P	17.3
7	☐			450.01		P	7.3
8	☐			1148.95		P	5.1

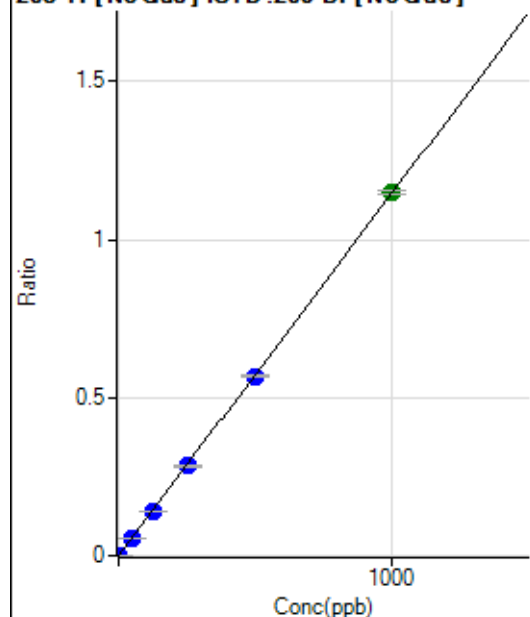
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.11		P	14.8
2	☐			91.67		P	9.1
3	☐			97.23		P	38.6
4	☐			116.67		P	18.9
5	☐			91.67		P	32.8
6	☐			122.23		P	47.9
7	☐			163.89		P	17.9
8	☐			272.23		P	14.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.22		P	41.5
2	☐			62.22		P	26.4
3	☐			61.11		P	19.2
4	☐			53.33		P	27.2
5	☐			82.22		P	20.0
6	☐			80.00		P	25.3
7	☐			98.89		P	19.7
8	☐			176.67		P	36.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	575.03	0.0001	P	7.3
2	☐	1.000	1.011	9856.65	0.0012	P	2.1
3	☐	50.000	49.758	453055.69	0.0570	P	1.1
4	☐	125.000	123.555	1144628.11	0.1415	P	1.0
5	☐	250.000	248.427	2245465.78	0.2844	P	2.2
6	☐	500.000	495.656	4371012.34	0.5674	P	0.8
7	☐	1000.000	1002.758	8652165.12	1.1479	A	1.2
8	☐			2836.49	0.0004	P	14.4

$$y = 0.0011 * x + 7.2421E-005$$

$$R = 1.0000$$

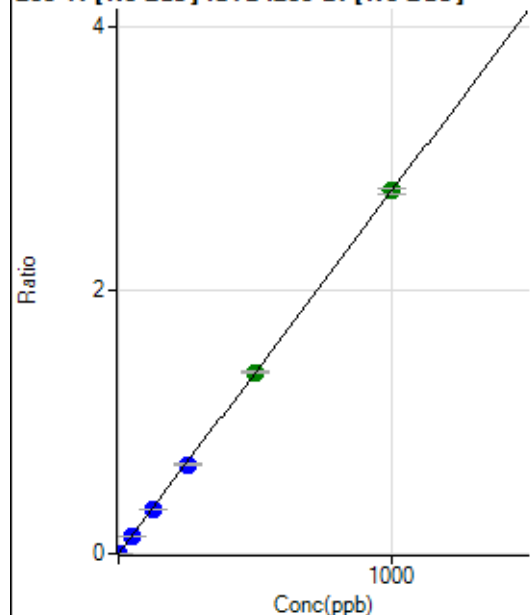
$$DL = 0.01387$$

$$BEC = 0.06327$$

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	1411.22	0.0002	P	11.0
2	☐	1.000	0.978	22967.58	0.0029	P	1.1
3	☐	50.000	49.441	1080990.16	0.1361	P	1.3
4	☐	125.000	121.818	2709986.63	0.3350	P	0.4
5	☐	250.000	245.382	5326229.76	0.6747	P	1.9
6	☐	500.000	501.050	10610189.82	1.3774	A	0.8
7	☐	1000.000	1001.055	20740777.37	2.7517	A	1.4
8	☐			6893.66	0.0011	P	16.8

$$y = 0.0027 * x + 1.7763E-004$$

$$R = 1.0000$$

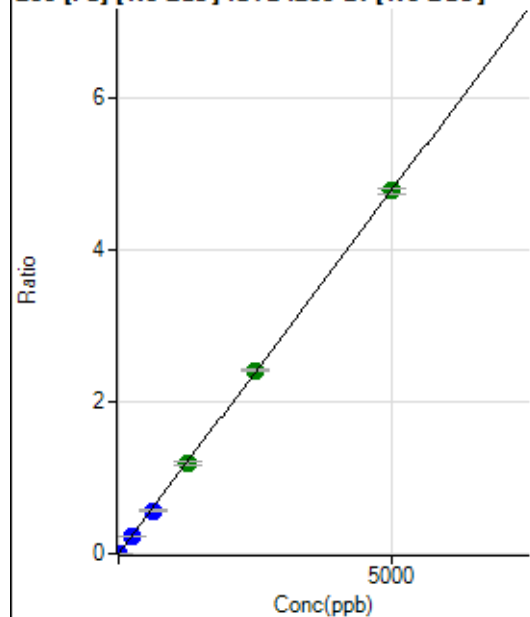
$$DL = 0.02128$$

$$BEC = 0.06462$$

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	1529.75	0.0002	P	6.3
2	☐	1.000	1.020	9357.14	0.0012	P	3.0
3	☐	250.000	244.114	1855004.85	0.2335	P	1.4
4	☐	625.000	595.535	4605837.89	0.5694	P	0.6
5	☐	1250.000	1243.689	9384747.32	1.1889	A	2.6
6	☐	2500.000	2518.871	18546274.49	2.4076	A	0.9
7	☐	5000.000	4996.120	35992929.51	4.7753	A	1.5
8	☐			23869.79	0.0037	P	0.7

$$y = 9.5577\text{E-}004 * x + 1.9256\text{E-}004$$

$$R = 1.0000$$

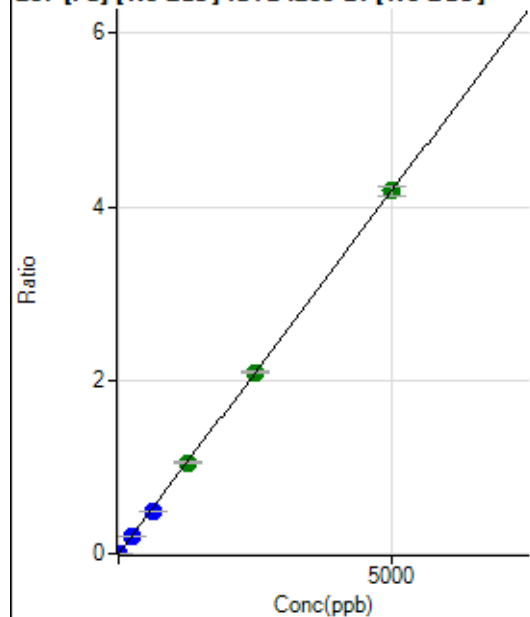
$$DL = 0.03782$$

$$BEC = 0.2015$$

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	1233.41	0.0002	P	5.4
2	☐	1.000	0.998	7932.17	0.0010	P	1.4
3	☐	250.000	238.301	1583304.38	0.1993	P	1.8
4	☐	625.000	584.151	3950324.54	0.4884	P	0.9
5	☐	1250.000	1252.459	8264542.83	1.0469	A	2.2
6	☐	2500.000	2504.026	16121406.15	2.0929	A	1.1
7	☐	5000.000	5003.063	31515348.39	4.1814	A	2.4
8	☐			20490.14	0.0031	P	3.0

$$y = 8.3574\text{E-}004 * x + 1.5529\text{E-}004$$

$$R = 1.0000$$

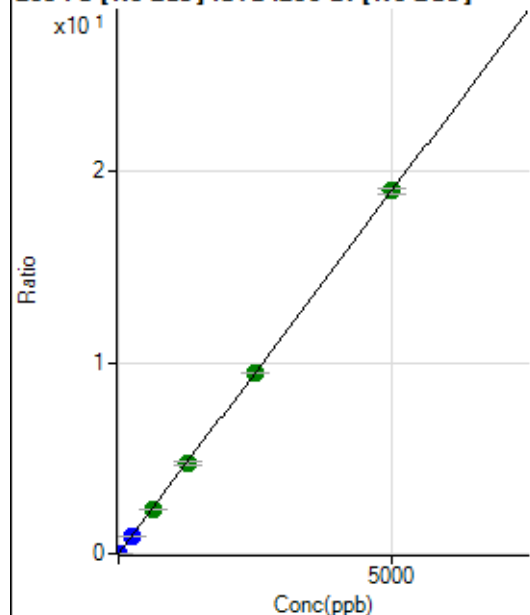
$$DL = 0.03036$$

$$BEC = 0.1858$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5798.74	0.0007	P	2.1
2	☐	1.000	0.990	35969.36	0.0045	P	0.3
3	☐	250.000	240.188	7247656.97	0.9123	P	1.3
4	☐	625.000	604.245	18557205.36	2.2941	A	0.3
5	☐	1250.000	1248.378	37408476.93	4.7388	A	2.5
6	☐	2500.000	2496.306	72988002.79	9.4752	A	0.8
7	☐	5000.000	5005.337	143191111.0	18.9979	A	1.8
8	☐			92709.53	0.0142	P	2.1

$$y = 0.0038 * x + 7.3002E-004$$

R = 1.0000

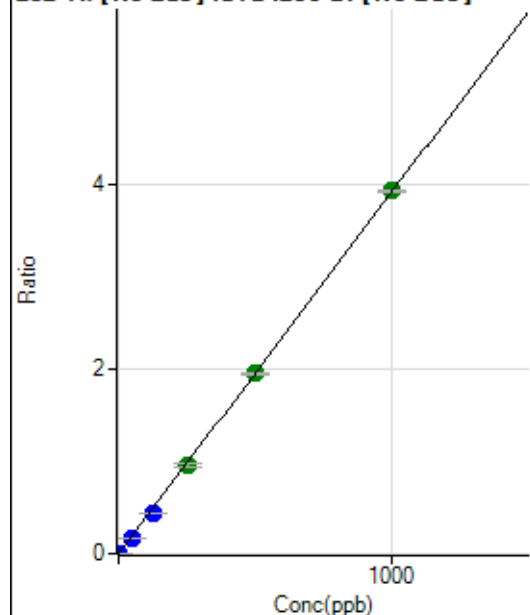
DL = 0.01222

BEC = 0.1923

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	207.41	0.0000	P	10.6
2	☐	1.000	0.000	211.12	0.0000	P	19.7
3	☐	50.000	44.142	1370182.50	0.1725	P	1.1
4	☐	125.000	110.539	3493270.30	0.4318	P	0.4
5	☐	250.000	245.479	7569630.32	0.9590	A	3.0
6	☐	500.000	498.033	14987029.04	1.9456	A	0.3
7	☐	1000.000	1004.215	29569270.80	3.9230	A	0.9
8	☐			2968.93	0.0005	P	21.0

$$y = 0.0039 * x + 2.6105E-005$$

R = 0.9999

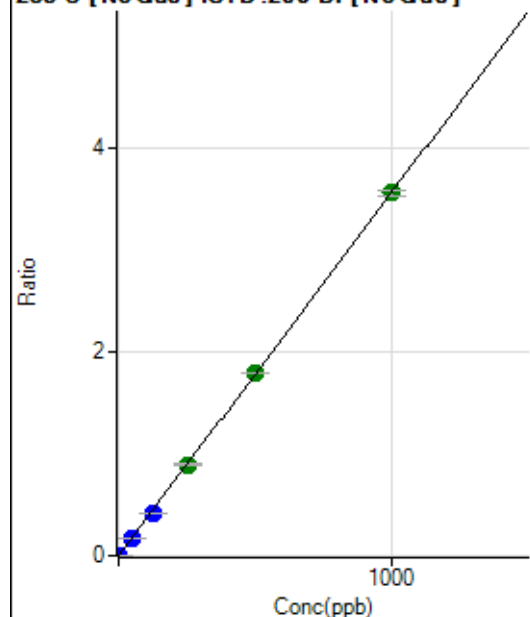
DL = 0.002131

BEC = 0.006682

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	30.56	0.0000	P	56.4
2	☐	1.000	0.909	25936.08	0.0032	P	2.1
3	☐	50.000	45.475	1284557.50	0.1617	P	1.4
4	☐	125.000	115.127	3311307.78	0.4094	P	0.5
5	☐	250.000	250.052	7018217.60	0.8891	A	3.0
6	☐	500.000	503.838	13799994.50	1.7915	A	0.2
7	☐	1000.000	999.528	26787915.36	3.5540	A	1.4
8	☐			2939.34	0.0005	P	2.2

$$y = 0.0036 * x + 3.8436E-006$$

$$R = 0.9999$$

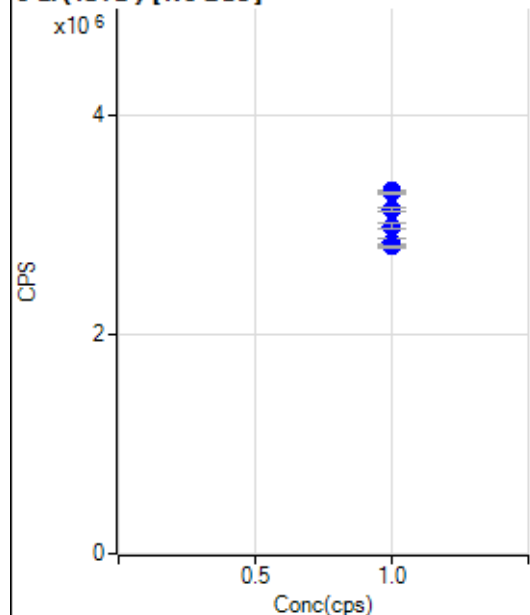
$$DL = 0.001828$$

$$BEC = 0.001081$$

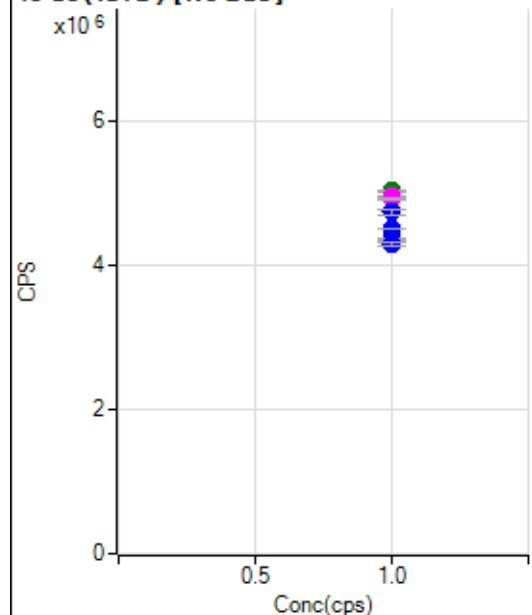
Weight: <None>

Min Conc: 0

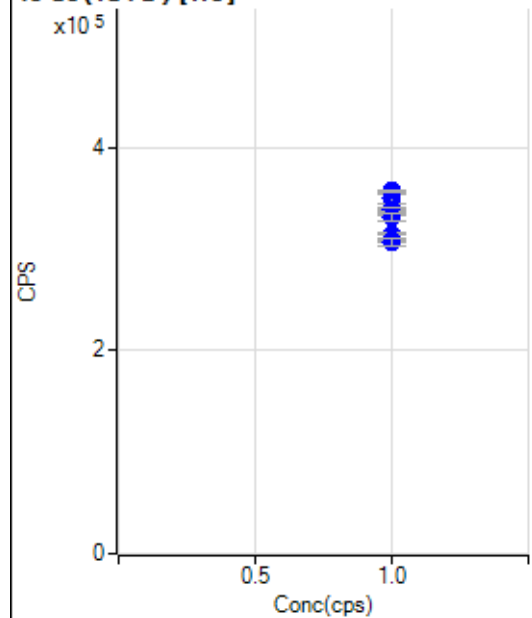
6 Li (ISTD) [No Gas]



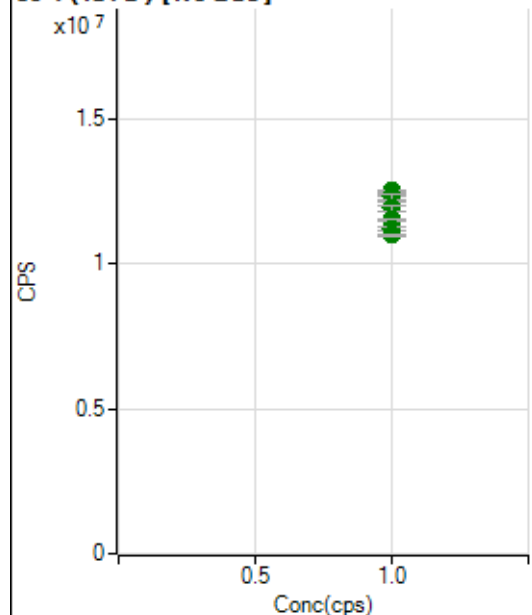
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3303587.63		P	0.6
2	☐	1.000		3293691.79		P	0.6
3	☐	1.000		3308891.44		P	0.2
4	☐	1.000		3288825.16		P	0.6
5	☐	1.000		3134361.66		P	1.1
6	☐	1.000		2986744.99		P	1.6
7	☐	1.000		2848339.43		P	2.2
8	☐	1.000		2797995.34		P	0.6

45 Sc (ISTD) [No Gas]

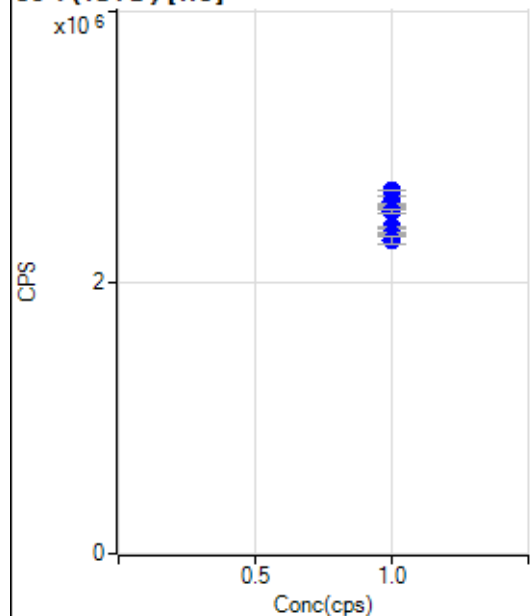
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5028468.85		A	0.2
2	☐	1.000		5026802.63		A	0.3
3	☐	1.000		4948435.34		M	0.7
4	☐	1.000		4927914.51		M	0.5
5	☐	1.000		4733522.74		P	1.5
6	☐	1.000		4500332.47		P	0.1
7	☐	1.000		4358139.14		P	0.2
8	☐	1.000		4283087.23		P	1.2

45 Sc (ISTD) [He]

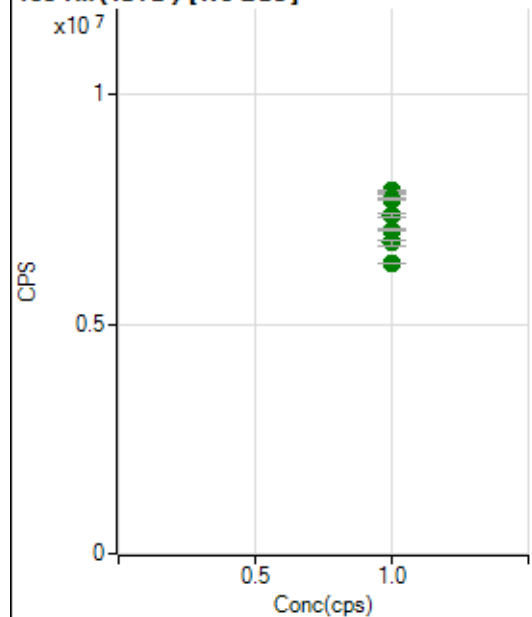
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		349705.91		P	2.6
2	☐	1.000		357525.34		P	0.7
3	☐	1.000		335961.87		P	1.6
4	☐	1.000		339653.65		P	1.1
5	☐	1.000		331657.89		P	1.9
6	☐	1.000		314940.83		P	0.6
7	☐	1.000		308346.52		P	0.5
8	☐	1.000		306996.21		P	2.6

89 Y (ISTD) [No Gas]

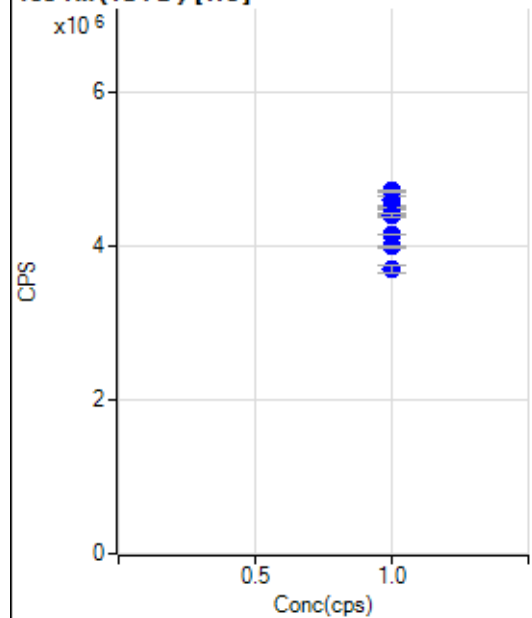
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12319149.54		A	0.2
2	☐	1.000		12496721.76		A	0.5
3	☐	1.000		12214746.21		A	1.5
4	☐	1.000		12290419.68		A	1.3
5	☐	1.000		11896884.27		A	1.9
6	☐	1.000		11504201.63		A	0.9
7	☐	1.000		11198859.70		A	0.7
8	☐	1.000		10968756.99		A	0.8

89 Y (ISTD) [He]

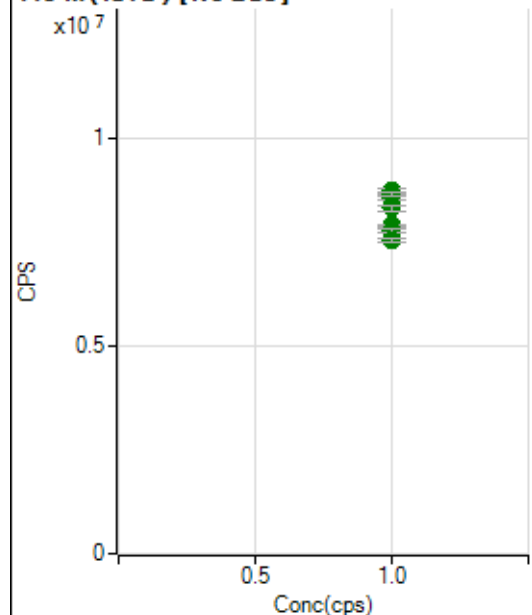
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2600995.17		P	2.5
2	☐	1.000		2674523.17		P	0.2
3	☐	1.000		2526248.76		P	1.5
4	☐	1.000		2574676.25		P	0.6
5	☐	1.000		2522942.88		P	1.3
6	☐	1.000		2403115.45		P	0.3
7	☐	1.000		2359450.10		P	0.6
8	☐	1.000		2317310.57		P	2.5

103 Rh (ISTD) [No Gas]

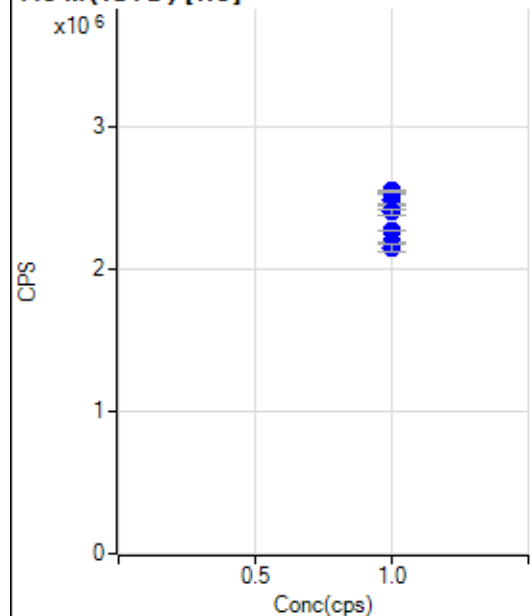
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7857603.84		A	0.9
2	☐	1.000		7899352.45		A	0.7
3	☐	1.000		7755494.47		A	1.5
4	☐	1.000		7721670.93		A	0.4
5	☐	1.000		7361716.00		A	1.4
6	☐	1.000		7053637.04		A	0.1
7	☐	1.000		6773133.93		A	2.0
8	☐	1.000		6322449.49		A	0.4

103 Rh (ISTD) [He]

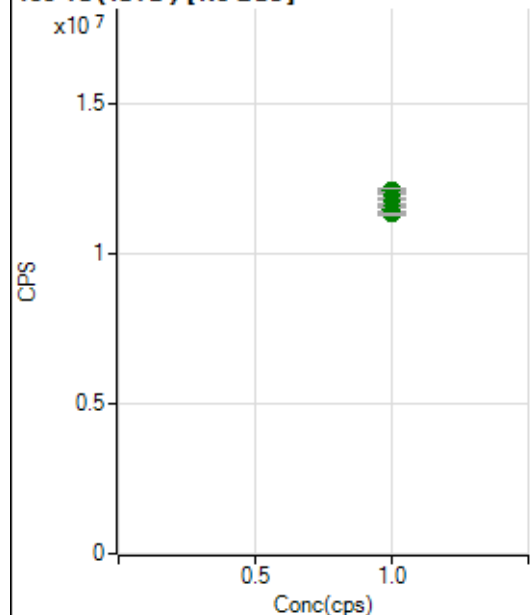
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4596334.00		P	3.0
2	☐	1.000		4720585.62		P	0.4
3	☐	1.000		4435084.07		P	1.7
4	☐	1.000		4500763.27		P	0.2
5	☐	1.000		4404674.62		P	1.0
6	☐	1.000		4152923.69		P	0.4
7	☐	1.000		3997083.90		P	0.5
8	☐	1.000		3704627.97		P	2.8

115 In (ISTD) [No Gas]

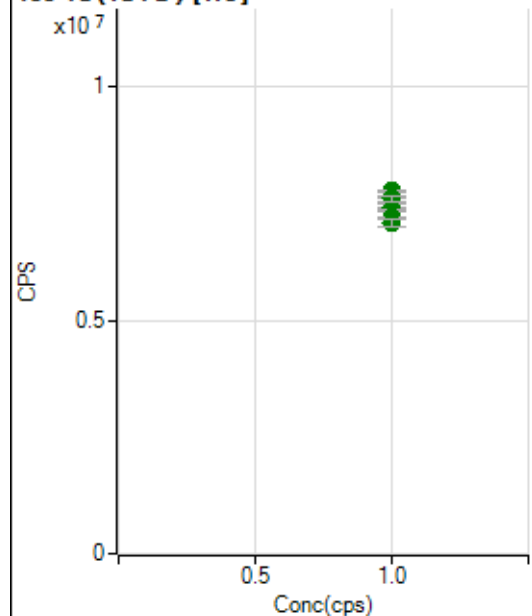
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8660148.99		A	0.7
2	☐	1.000		8726020.78		A	1.0
3	☐	1.000		8550577.39		A	1.2
4	☐	1.000		8644147.11		A	0.7
5	☐	1.000		8310284.35		A	1.8
6	☐	1.000		7889253.24		A	0.3
7	☐	1.000		7770530.76		A	1.1
8	☐	1.000		7530597.93		A	0.9

115 In (ISTD) [He]

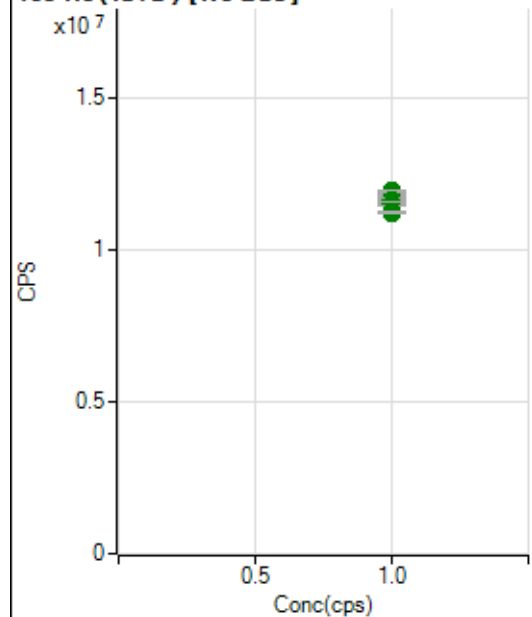
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2483548.03		P	2.9
2	☐	1.000		2545687.78		P	0.4
3	☐	1.000		2395064.46		P	1.4
4	☐	1.000		2447093.52		P	0.6
5	☐	1.000		2396797.44		P	1.6
6	☐	1.000		2267177.91		P	0.3
7	☐	1.000		2184440.39		P	0.4
8	☐	1.000		2149964.52		P	2.5

159 Tb (ISTD) [No Gas]

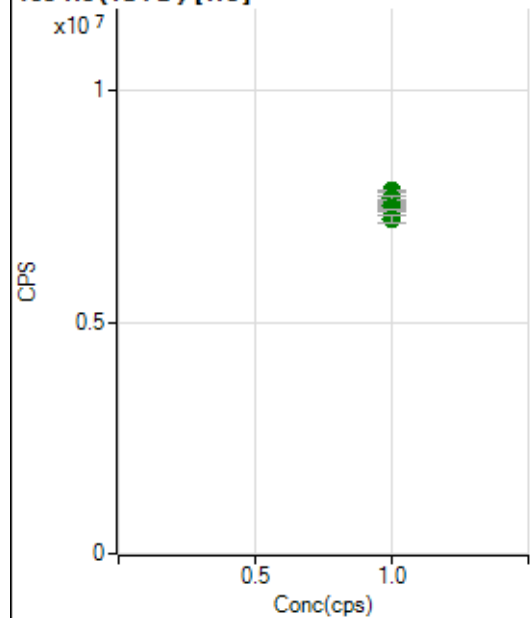
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12087174.26		A	0.7
2	☐	1.000		12111609.27		A	0.5
3	☐	1.000		12077190.79		A	0.8
4	☐	1.000		12119539.40		A	1.1
5	☐	1.000		11865517.74		A	0.7
6	☐	1.000		11675882.60		A	0.3
7	☐	1.000		11486109.83		A	0.8
8	☐	1.000		11345814.41		A	0.2

159 Tb (ISTD) [He]

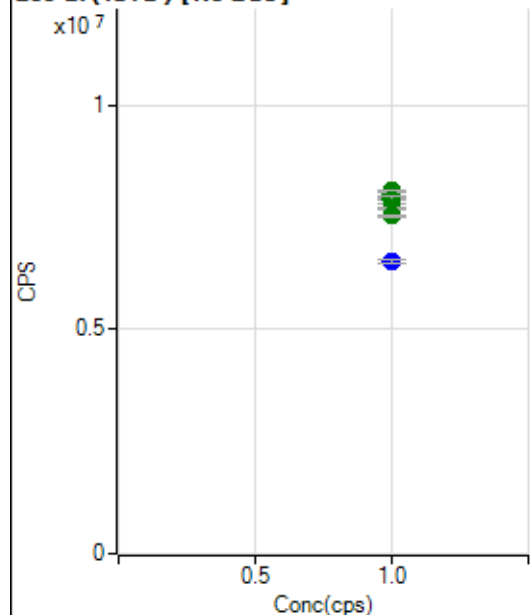
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7530909.06		A	3.5
2	☐	1.000		7764619.05		A	0.4
3	☐	1.000		7409859.06		A	1.7
4	☐	1.000		7608469.40		A	0.2
5	☐	1.000		7598058.36		A	2.0
6	☐	1.000		7341592.04		A	0.6
7	☐	1.000		7192726.56		A	0.8
8	☐	1.000		7092331.70		A	2.2

165 Ho (ISTD) [No Gas]

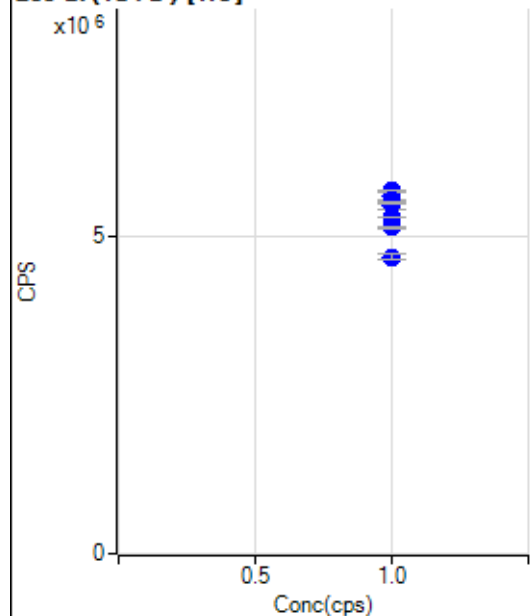
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11726547.05		A	1.0
2	☐	1.000		11837512.88		A	0.6
3	☐	1.000		11722569.13		A	0.5
4	☐	1.000		11954280.24		A	0.7
5	☐	1.000		11631931.08		A	1.7
6	☐	1.000		11536336.36		A	0.9
7	☐	1.000		11265203.31		A	0.3
8	☐	1.000		11222756.36		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7622993.84		A	3.1
2	☐	1.000		7832265.79		A	0.4
3	☐	1.000		7503216.62		A	1.7
4	☐	1.000		7653567.32		A	1.7
5	☐	1.000		7685267.38		A	0.9
6	☐	1.000		7468346.34		A	0.2
7	☐	1.000		7416983.36		A	0.6
8	☐	1.000		7226533.78		A	2.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7942566.34		A	0.7
2	☐	1.000		8014727.31		A	0.7
3	☐	1.000		7944802.94		A	1.1
4	☐	1.000		8089242.59		A	0.3
5	☐	1.000		7897212.59		A	2.5
6	☐	1.000		7703157.80		A	0.2
7	☐	1.000		7537746.76		A	0.7
8	☐	1.000		6507709.49		P	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5644047.48		P	3.0
2	☐	1.000		5711657.55		P	0.5
3	☐	1.000		5465413.04		P	1.9
4	☐	1.000		5556365.78		P	0.3
5	☐	1.000		5524387.07		P	1.0
6	☐	1.000		5301824.05		P	0.3
7	☐	1.000		5134046.55		P	0.3
8	☐	1.000		4667912.43		P	1.7

US EPA Tune Check Sample Report

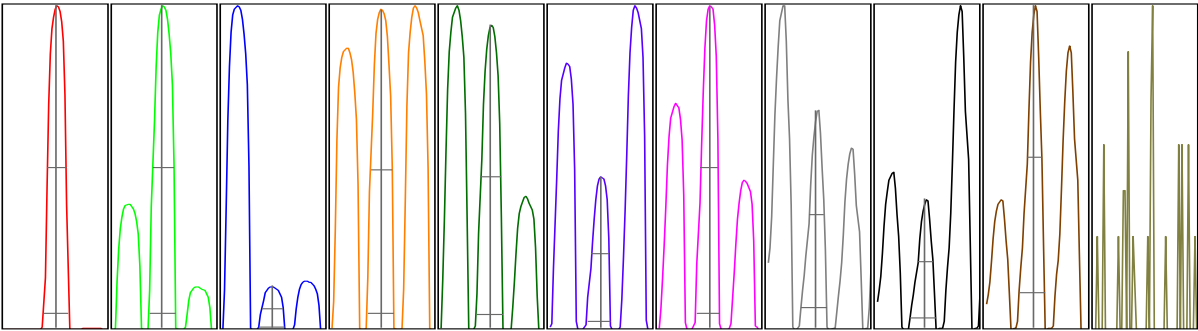
Batch Folder C:\Agilent\ICPMH\1\DATA\P7080321-PS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	8060	0.58	5.00	
24	93119	0.15	5.00	
25	12247	0.19	5.00	
26	14019	0.51	5.00	
59	17128	0.41	5.00	
113	10641	0.54	5.00	
115	32340	1.35	5.00	
206	15432	0.41	5.00	
207	13127	0.40	5.00	
208	31354	0.32	5.00	
220	0	136.93		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	8072	8097	8024	8107	7998
24	93010	93354	93063	93056	93113
25	12259	12259	12209	12242	12266
26	14029	14041	14113	13995	13916
59	17110	17187	17206	17031	17108
113	10639	10726	10628	10648	10566
115	32767	32769	32362	31970	31832
206	15373	15433	15529	15449	15376
207	13135	13196	13143	13114	13050
208	31499	31258	31370	31379	31264
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	14561	9.05	8.9 - 9.1		0.730	0.900	
24	155570	23.95	23.9 - 24.1		0.774	0.900	
25	20333	25.00	24.9 - 25.1		0.744	0.900	
26	23151	26.00	25.9 - 26.1		0.780	0.900	
59	30248	59.00	58.9 - 59.1		0.775	0.900	
113	20471	113.05	112.9 - 113.1		0.692	0.900	
115	62328	115.05	114.9 - 115.1		0.689	0.900	
206	33009	205.95	205.9 - 206.1		0.738	0.900	
207	27480	206.95	206.9 - 207.1		0.733	0.900	
208	68341	207.95	207.9 - 208.1		0.732	0.900	
220	0	220.10	-		0.250		

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	0.72	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		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.5	V	Deflect	13.2	V
Extract 2	-120.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-70	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	140	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5644	0.38	
89	25368	0.50	
205	16384	0.24	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5630	5681	5634	5633	5642
89	25544	25442	25311	25212	25329
205	16437	16344	16404	16391	16345

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	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		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.9	V	Deflect	1.8	V
Extract 2	-140.0	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			