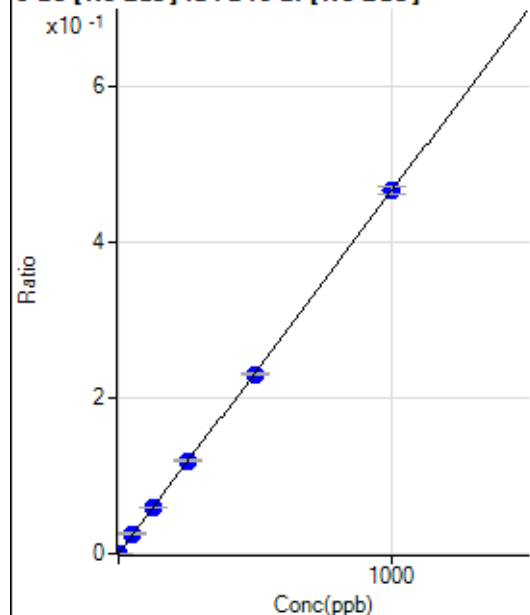


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8100620-MS.b\
 Analysis File: P8100620-MS.batch.bin
 DA Date-Time: 2020-10-06 17:40:42
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-10-06 10:22:11
2	004CALS.d	S02	2020-10-06 10:25:21
3	005CALS.d	S03	2020-10-06 10:28:29
4	006CALS.d	S04	2020-10-06 10:31:39
5	007CALS.d	S05	2020-10-06 10:34:41
6	008CALS.d	S06	2020-10-06 10:37:41
7	009CALS.d	S07	2020-10-06 10:40:39
8	010CALS.d	S08	2020-10-06 10:43:40

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.00	0.0000	P	7.5
2	☐	1.000	0.923	634.56	0.0004	P	2.4
3	☐	50.000	54.119	34074.41	0.0252	P	13.3
4	☐	125.000	128.239	85931.41	0.0598	P	1.9
5	☐	250.000	254.568	172634.87	0.1186	P	2.1
6	☐	500.000	495.428	344513.62	0.2308	P	0.9
7	☐	1000.000	1000.533	683722.78	0.4662	P	2.2
8	☐			199.96	0.0001	P	8.7

$$y = 4.6591\text{E-}004 * x + 1.8773\text{E-}005$$

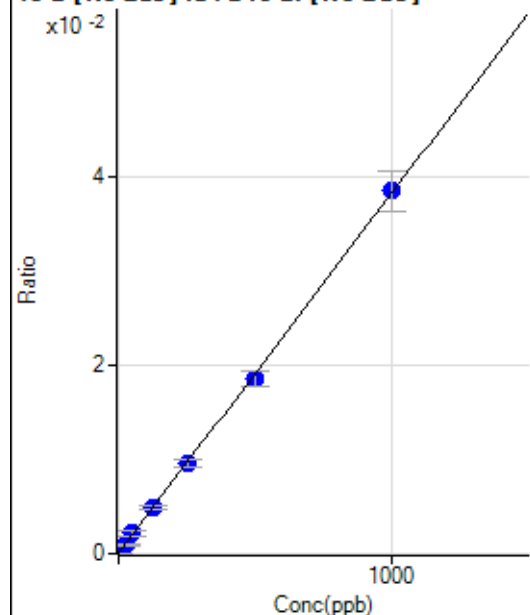
$$R = 1.0000$$

$$DL = 0.009047$$

$$BEC = 0.04029$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	92.65	0.0001	P	8.5
2	☐	25.000	22.486	1307.80	0.0009	P	10.2
3	☐	50.000	54.800	2888.39	0.0022	P	24.2
4	☐	125.000	127.440	7086.33	0.0049	P	7.9
5	☐	250.000	249.585	13946.56	0.0096	P	9.7
6	☐	500.000	485.298	27715.33	0.0186	P	9.6
7	☐	1000.000	1006.972	56365.25	0.0385	P	11.1
8	☐			8933.63	0.0058	P	9.2

$$y = 3.8135\text{E-}005 * x + 6.6901\text{E-}005$$

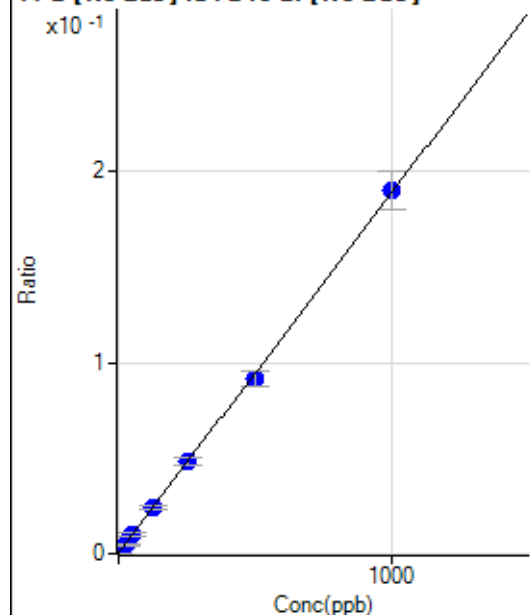
$$R = 0.9998$$

$$DL = 0.4474$$

$$BEC = 1.754$$

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	420.59	0.0003	P	1.2
2	☐	25.000	22.557	6435.49	0.0046	P	7.4
3	☐	50.000	54.046	14082.65	0.0105	P	20.0
4	☐	125.000	127.176	34887.77	0.0242	P	7.4
5	☐	250.000	254.652	70209.66	0.0483	P	9.3
6	☐	500.000	485.304	136807.31	0.0917	P	9.3
7	☐	1000.000	1005.772	277957.54	0.1897	P	10.6
8	☐			43962.89	0.0285	P	10.1

$$y = 1.8829E-004 * x + 3.0376E-004$$

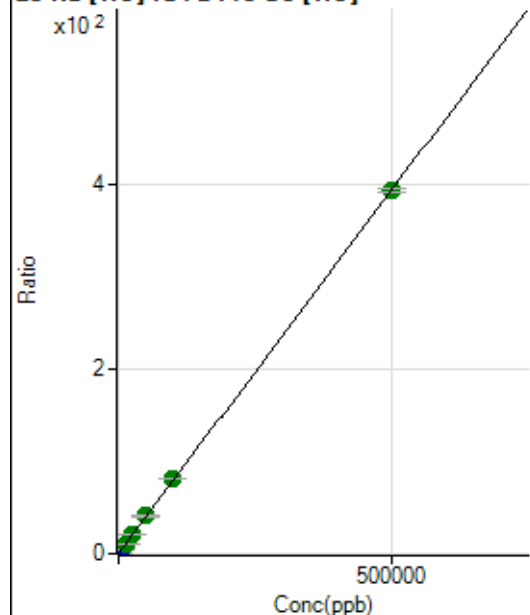
$$R = 0.9998$$

$$DL = 0.05891$$

$$BEC = 1.613$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	37632.32	0.2150	P	1.9
2	☐	500.000	502.084	104925.40	0.6095	P	1.2
3	☐	5000.000	5206.621	751652.33	4.3060	P	3.8
4	☐	12500.000	13017.317	1826537.02	10.4431	A	1.1
5	☐	25000.000	25560.208	3540952.77	20.2983	A	0.9
6	☐	50000.000	51368.593	7001032.27	40.5766	A	1.8
7	☐	100000.00	103737.49	14073163.68	81.7241	A	0.7
8	☐	500000.00	499072.63	68573477.23	392.3487	A	1.1

$$y = 7.8572E-004 * x + 0.2150$$

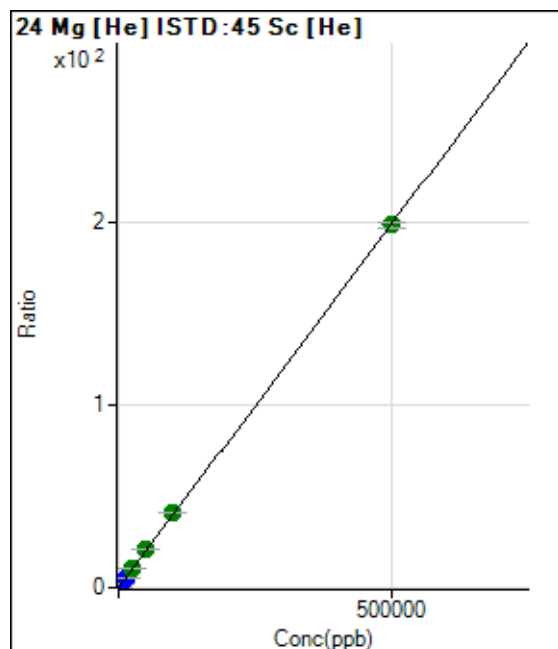
$$R = 1.0000$$

$$DL = 15.59$$

$$BEC = 273.7$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	509.47	0.0029	P	5.4
2	☐	500.000	506.054	35185.43	0.2044	P	1.2
3	☐	5000.000	5373.990	373983.56	2.1426	P	4.2
4	☐	12500.000	13159.014	916838.67	5.2423	P	1.4
5	☐	25000.000	25891.722	1798928.81	10.3119	A	1.1
6	☐	50000.000	51862.762	3563699.67	20.6524	A	0.7
7	☐	100000.00	103749.62	7114016.89	41.3116	A	0.7
8	☐	500000.00	498998.99	34724521.32	198.6829	A	1.4

$$y = 3.9816\text{E-}004 * x + 0.0029$$

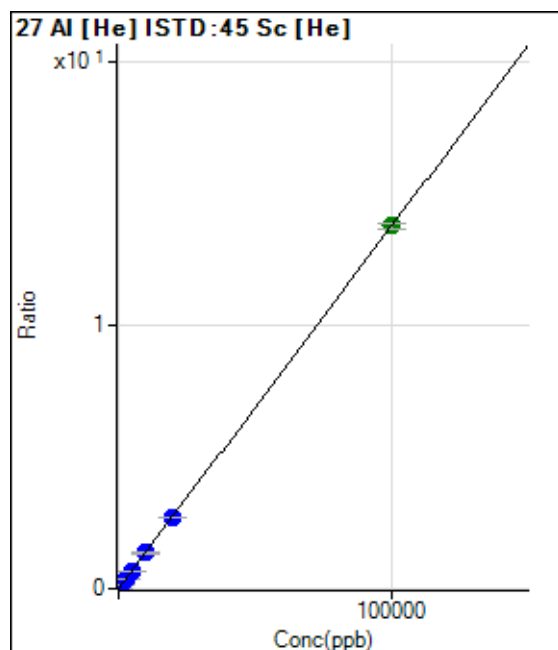
$$R = 1.0000$$

$$DL = 1.178$$

$$BEC = 7.312$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	595.36	0.0034	P	5.5
2	☐	20.000	20.911	1080.33	0.0063	P	5.1
3	☐	1000.000	999.840	24578.83	0.1408	P	4.8
4	☐	2500.000	2457.802	59681.67	0.3412	P	1.7
5	☐	5000.000	4959.419	119511.23	0.6851	P	1.3
6	☐	10000.000	9843.763	234058.54	1.3565	P	1.3
7	☐	20000.000	19740.810	467864.81	2.7169	P	0.6
8	☐	100000.00	100070.54	2404713.97	13.7589	A	1.3

$$y = 1.3746\text{E-}004 * x + 0.0034$$

$$R = 1.0000$$

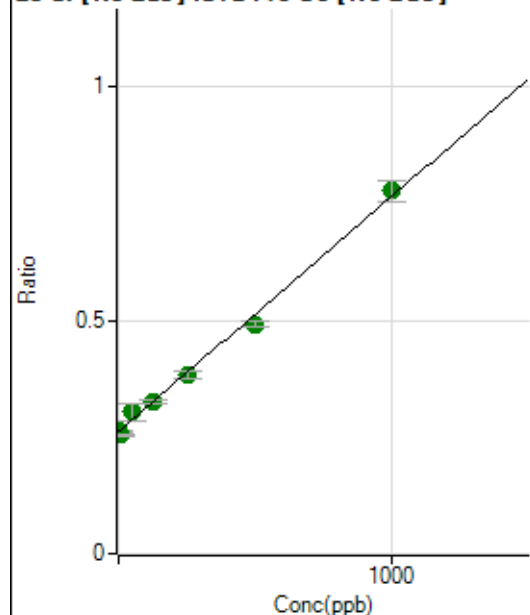
$$DL = 4.112$$

$$BEC = 24.74$$

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	959279.21	0.2621	A	0.5
2	☐	10.000	-15.241	952867.73	0.2544	A	1.5
3	☐	50.000	81.254	1065044.05	0.3031	A	12.8
4	☐	125.000	126.158	1202955.80	0.3257	A	2.0
5	☐	250.000	238.960	1435433.43	0.3825	A	4.3
6	☐	500.000	456.070	1893643.42	0.4919	A	2.7
7	☐	1000.000	1023.270	2974325.54	0.7776	A	5.7
8	☐			1106094.79	0.2879	A	2.1

$$y = 5.0378\text{E-}004 * x + 0.2621$$

R = 0.9975

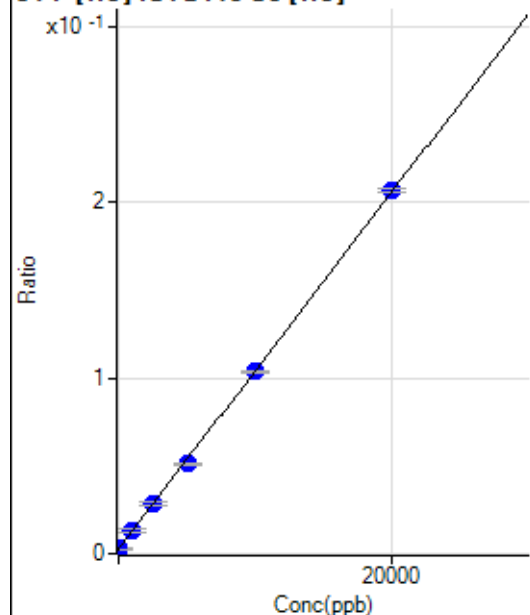
DL = 7.341

BEC = 520.3

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	12.791	486.13	0.0028	P	11.5
2	☐	0.000	-12.791	433.35	0.0025	P	10.3
3	☐	1000.000	1011.997	2250.24	0.0129	P	12.9
4	☐	2500.000	2498.866	4895.38	0.0280	P	7.2
5	☐	5000.000	4778.997	8919.60	0.0511	P	2.3
6	☐	10000.000	9935.411	17850.33	0.1035	P	1.7
7	☐	20000.000	20087.087	35555.31	0.2065	P	1.2
8	☐			497.24	0.0028	P	9.1

$$y = 1.0146\text{E-}005 * x + 0.0026$$

R = 0.9999

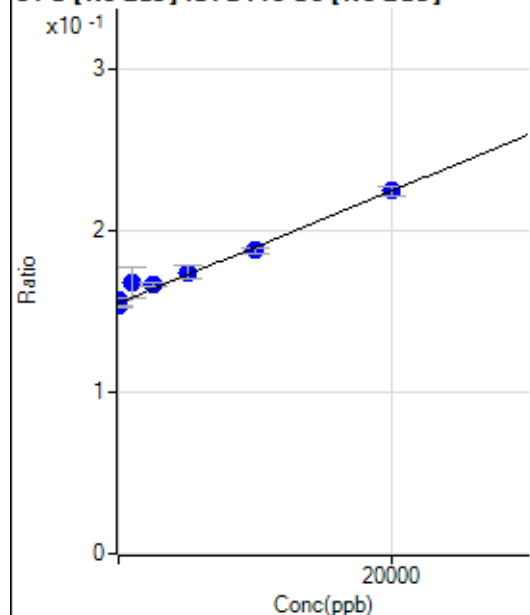
DL = 85.51

BEC = 260.9

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	503.945	574624.96	0.1570	P	0.4
2	☐	0.000	-503.945	574889.70	0.1535	P	1.0
3	☐	1000.000	3649.066	590839.53	0.1680	P	11.5
4	☐	2500.000	3253.225	615289.53	0.1666	P	1.9
5	☐	5000.000	5501.738	654452.60	0.1744	P	4.3
6	☐	10000.000	9348.385	722997.40	0.1878	P	1.6
7	☐	20000.000	19973.766	860099.01	0.2247	P	2.5
8	☐			561993.79	0.1463	P	1.8

$$y = 3.4781E-006 * x + 0.1553$$

$$R = 0.9892$$

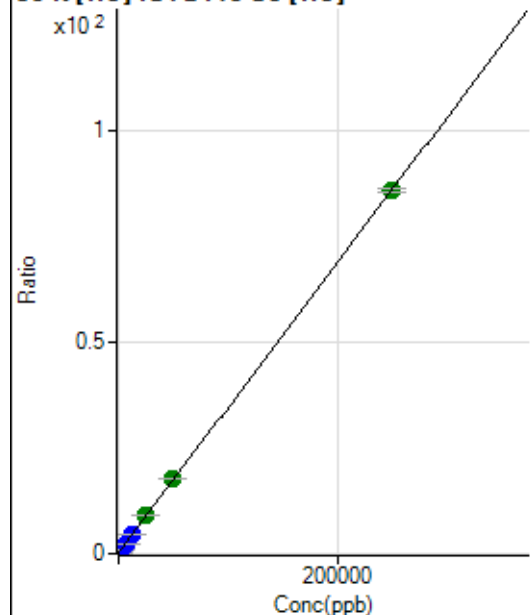
$$DL = 908.3$$

$$BEC = 4.464E+04$$

Weight: <None>

Min Conc: 0

39 K [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	37465.99	0.2141	P	0.3
2	☐	500.000	494.336	66015.49	0.3835	P	0.8
3	☐	2500.000	2637.306	195125.25	1.1180	P	4.5
4	☐	6250.000	6450.310	424087.55	2.4248	P	1.3
5	☐	12500.000	12961.799	812303.38	4.6566	P	1.1
6	☐	25000.000	25679.547	1555678.87	9.0155	A	0.5
7	☐	50000.000	50765.370	3033290.13	17.6134	A	0.7
8	☐	250000.00	249749.51	14998418.04	85.8131	A	0.9

$$y = 3.4274E-004 * x + 0.2141$$

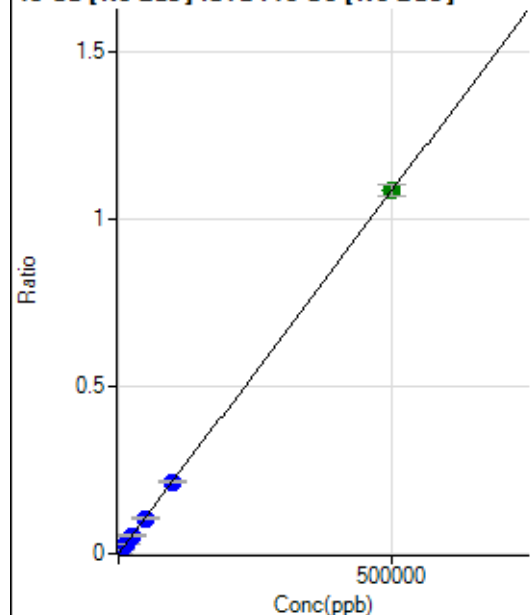
$$R = 1.0000$$

$$DL = 5.92$$

$$BEC = 624.6$$

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	474.95	0.0001	P	7.7
2	☐	500.000	450.203	4138.84	0.0011	P	2.3
3	☐	5000.000	5269.529	40608.50	0.0115	P	11.9
4	☐	12500.000	12611.597	101414.13	0.0275	P	2.0
5	☐	25000.000	25054.715	204234.34	0.0544	P	3.9
6	☐	50000.000	48967.993	409001.02	0.1062	P	2.1
7	☐	100000.00	99229.692	823102.04	0.2151	P	4.1
8	☐	500000.00	500249.09	4163971.80	1.0841	A	3.3

$$y = 2.1668\text{E-}006 * x + 1.2977\text{E-}004$$

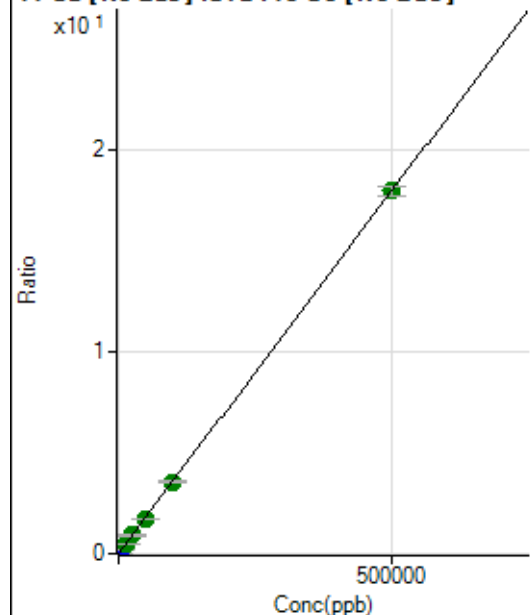
$$R = 1.0000$$

$$DL = 13.84$$

$$BEC = 59.89$$

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	30275.11	0.0083	P	0.4
2	☐	500.000	450.915	91674.05	0.0245	P	1.6
3	☐	5000.000	5352.260	705493.52	0.2007	P	12.2
4	☐	12500.000	12525.960	1693602.87	0.4585	A	2.5
5	☐	25000.000	24997.325	3402825.93	0.9068	A	4.3
6	☐	50000.000	48527.319	6748257.10	1.7525	A	1.0
7	☐	100000.00	98734.294	13611670.85	3.5571	A	3.3
8	☐	500000.00	500396.42	69119491.01	17.9943	A	2.8

$$y = 3.5944\text{E-}005 * x + 0.0083$$

$$R = 1.0000$$

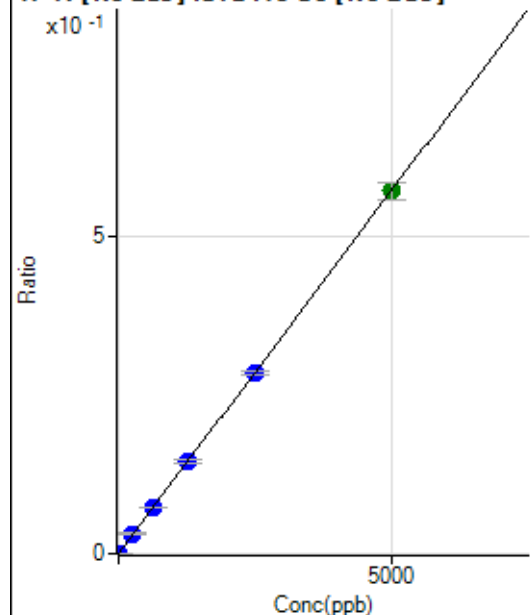
$$DL = 2.855$$

$$BEC = 230.2$$

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	475.02	0.0001	P	8.2
2	☐	5.000	4.552	2433.61	0.0006	P	2.7
3	☐	250.000	274.087	110606.75	0.0314	P	11.7
4	☐	625.000	639.758	270466.25	0.0732	P	1.9
5	☐	1250.000	1275.398	547165.66	0.1458	P	5.3
6	☐	2500.000	2489.869	1095777.26	0.2846	P	1.9
7	☐	5000.000	4995.667	2183950.29	0.5709	A	4.8
8	☐			650.03	0.0002	P	6.6

$$y = 1.1425\text{E-}004 * x + 1.2981\text{E-}004$$

$$R = 1.0000$$

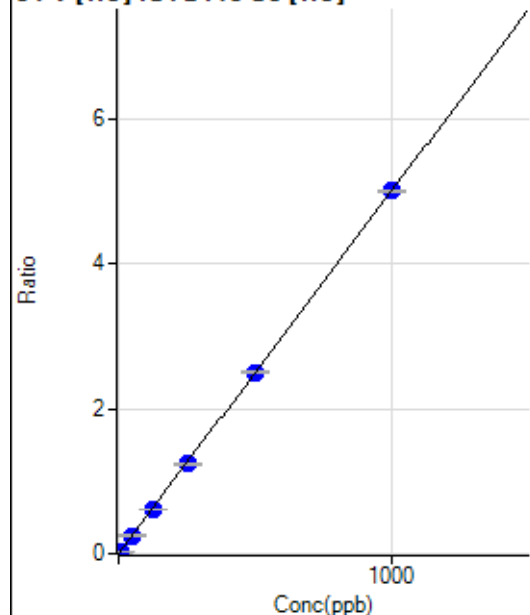
$$DL = 0.2785$$

$$BEC = 1.136$$

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	28.89	0.0002	P	44.2
2	☐	5.000	4.799	4160.65	0.0242	P	4.2
3	☐	50.000	49.460	43204.99	0.2476	P	4.7
4	☐	125.000	122.862	107509.75	0.6147	P	1.0
5	☐	250.000	247.876	216302.92	1.2400	P	1.6
6	☐	500.000	500.721	432186.88	2.5047	P	1.0
7	☐	1000.000	1000.466	861786.57	5.0044	P	0.5
8	☐			155.56	0.0009	P	13.0

$$y = 0.0050 * x + 1.6528\text{E-}004$$

$$R = 1.0000$$

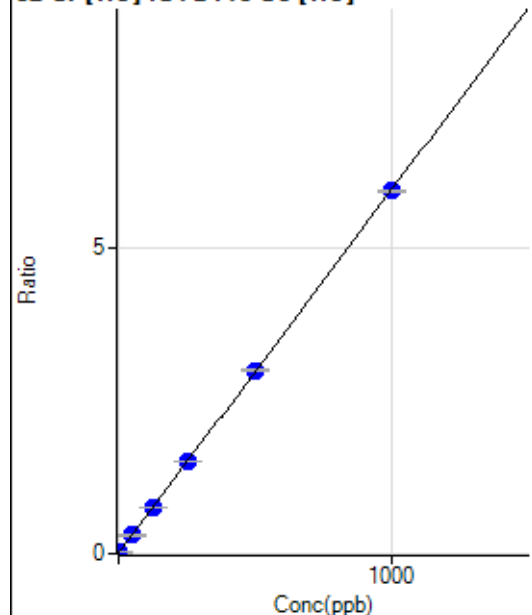
$$DL = 0.04385$$

$$BEC = 0.03304$$

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	1001.16	0.0057	P	1.7
2	☐	2.000	1.935	2963.67	0.0172	P	3.2
3	☐	50.000	50.387	53237.52	0.3050	P	4.2
4	☐	125.000	125.382	131254.36	0.7505	P	1.1
5	☐	250.000	252.985	263136.53	1.5084	P	0.9
6	☐	500.000	503.807	517346.25	2.9983	P	1.1
7	☐	1000.000	997.283	1021058.52	5.9294	P	0.8
8	☐			3081.47	0.0176	P	1.6

$$y = 0.0059 * x + 0.0057$$

$$R = 1.0000$$

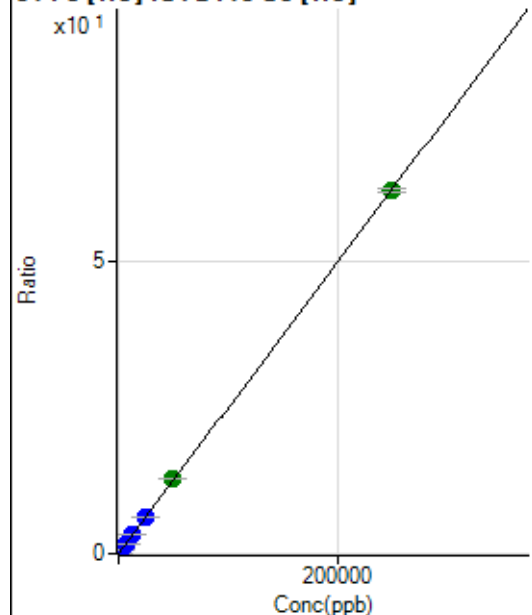
$$DL = 0.05043$$

$$BEC = 0.963$$

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	466.68	0.0027	P	6.8
2	☐	50.000	49.058	2561.39	0.0149	P	2.7
3	☐	2500.000	2582.773	112683.28	0.6457	P	4.9
4	☐	6250.000	6368.585	277771.76	1.5882	P	1.3
5	☐	12500.000	12709.657	552454.27	3.1670	P	1.2
6	☐	25000.000	25555.144	1098332.18	6.3651	P	0.6
7	☐	50000.000	52113.493	2234774.30	12.9773	A	0.4
8	☐	250000.00	249507.51	10857727.79	62.1222	A	1.0

$$y = 2.4897E-004 * x + 0.0027$$

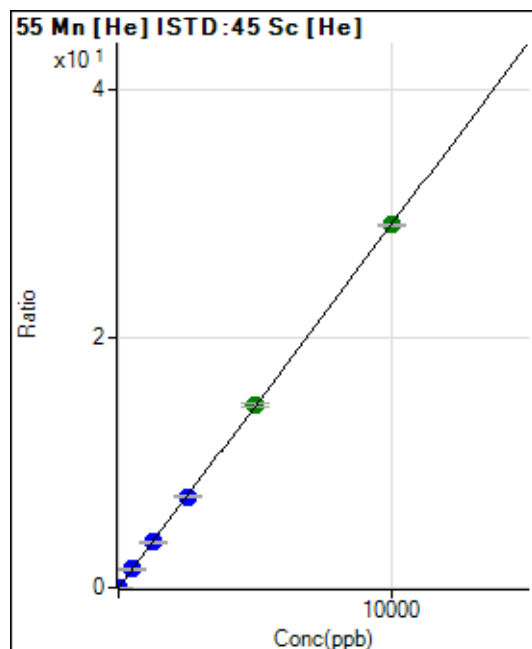
$$R = 1.0000$$

$$DL = 2.175$$

$$BEC = 10.71$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	133.34	0.0008	P	10.7
2	☐	1.000	0.925	595.58	0.0035	P	5.1
3	☐	500.000	506.350	257882.51	1.4776	P	4.5
4	☐	1250.000	1245.048	635216.20	3.6321	P	1.4
5	☐	2500.000	2503.246	1273624.98	7.3017	P	2.0
6	☐	5000.000	5026.504	2529620.22	14.6610	A	1.8
7	☐	10000.000	9986.238	5015893.36	29.1266	A	0.3
8	☐			3463.79	0.0198	P	2.7

$$y = 0.0029 * x + 7.6171E-004$$

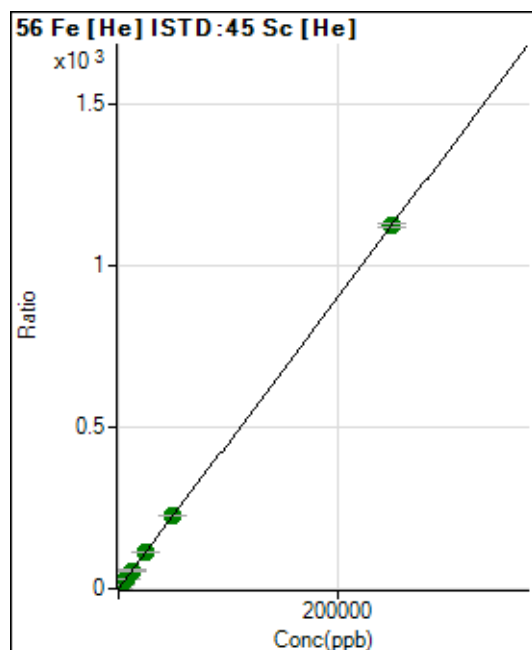
$$R = 1.0000$$

$$DL = 0.08347$$

$$BEC = 0.2612$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3187.46	0.0182	P	5.2
2	☐	50.000	49.513	41504.92	0.2411	P	0.7
3	☐	2500.000	2580.032	2030514.97	11.6329	A	4.2
4	☐	6250.000	6295.830	4960070.95	28.3605	A	1.4
5	☐	12500.000	12491.001	9811930.31	56.2496	A	1.5
6	☐	25000.000	25068.260	19475246.04	112.8693	A	1.3
7	☐	50000.000	50363.445	39047170.78	226.7419	A	0.3
8	☐	250000.00	249918.98	196643269.2	1,125.091	A	0.9

$$y = 0.0045 * x + 0.0182$$

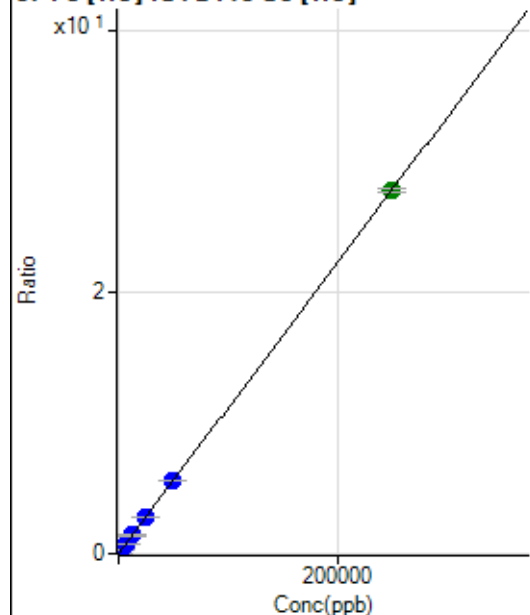
$$R = 1.0000$$

$$DL = 0.636$$

$$BEC = 4.046$$

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	233.34	0.0013	P	21.1
2	☐	50.000	50.219	1188.96	0.0069	P	4.1
3	☐	2500.000	2544.680	49550.74	0.2838	P	3.0
4	☐	6250.000	6314.468	122827.70	0.7023	P	0.9
5	☐	12500.000	12659.640	245353.96	1.4066	P	2.0
6	☐	25000.000	25328.920	485346.58	2.8130	P	1.8
7	☐	50000.000	50538.710	966280.59	5.6114	P	1.0
8	☐	250000.00	249849.32	4847592.47	27.7360	A	1.2

$$y = 1.1101\text{E-}004 * x + 0.0013$$

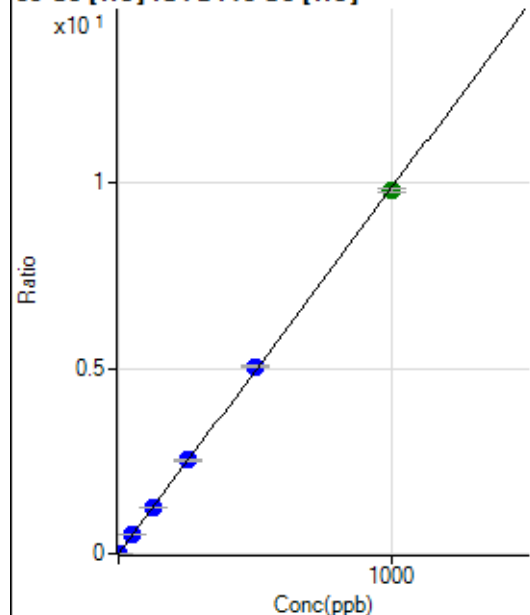
$$R = 1.0000$$

$$DL = 7.587$$

$$BEC = 12$$

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	55.56	0.0003	P	18.8
2	☐	1.000	0.971	1705.67	0.0099	P	3.2
3	☐	50.000	51.540	88905.47	0.5094	P	4.8
4	☐	125.000	127.393	220131.65	1.2587	P	1.4
5	☐	250.000	255.746	440711.53	2.5265	P	1.5
6	☐	500.000	512.373	873297.86	5.0614	P	1.5
7	☐	1000.000	992.001	1687364.30	9.7990	A	1.1
8	☐			3075.92	0.0176	P	0.6

$$y = 0.0099 * x + 3.1761\text{E-}004$$

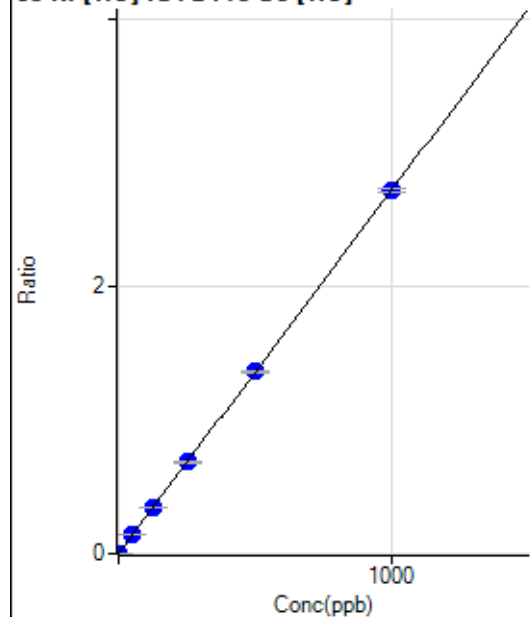
$$R = 0.9999$$

$$DL = 0.01815$$

$$BEC = 0.03215$$

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	241.12	0.0014	P	1.9
2	☐	1.000	1.087	745.58	0.0043	P	8.8
3	☐	50.000	51.370	24606.87	0.1409	P	3.8
4	☐	125.000	125.354	59805.04	0.3420	P	1.5
5	☐	250.000	251.902	119624.20	0.6858	P	1.7
6	☐	500.000	501.969	235563.70	1.3652	P	1.0
7	☐	1000.000	998.427	467366.51	2.7140	P	0.9
8	☐			1087.83	0.0062	P	4.5

$$y = 0.0027 * x + 0.0014$$

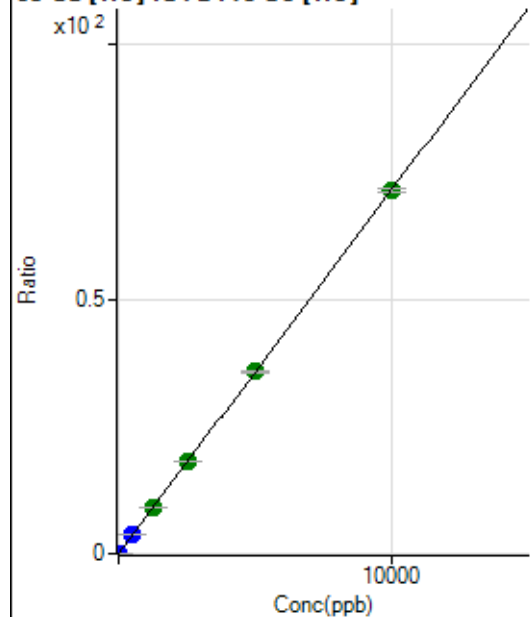
$$R = 1.0000$$

$$DL = 0.02915$$

$$BEC = 0.5071$$

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	888.93	0.0051	P	7.0
2	☐	2.000	2.142	3509.36	0.0204	P	1.4
3	☐	500.000	516.415	644913.83	3.6948	P	4.2
4	☐	1250.000	1266.581	1583678.88	9.0547	A	0.6
5	☐	2500.000	2543.161	3170612.42	18.1757	A	1.1
6	☐	5000.000	5017.624	6187068.03	35.8555	A	0.8
7	☐	10000.000	9977.504	12276719.68	71.2933	A	0.9
8	☐			4835.32	0.0277	P	3.2

$$y = 0.0071 * x + 0.0051$$

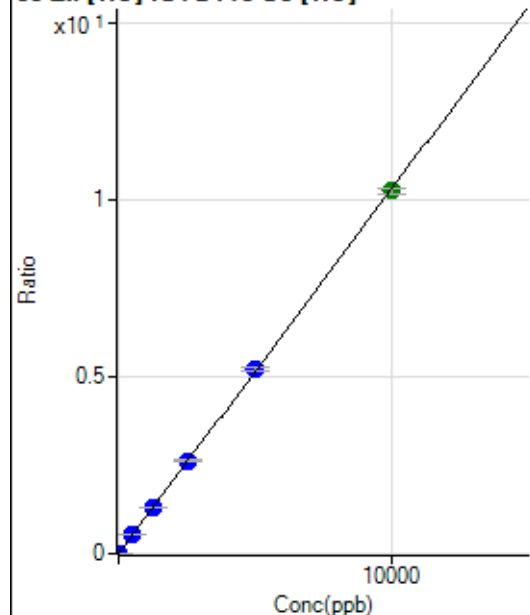
$$R = 1.0000$$

$$DL = 0.1496$$

$$BEC = 0.711$$

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	66.67	0.0004	P	35.4
2	☐	2.000	2.402	491.13	0.0029	P	8.8
3	☐	500.000	514.540	92509.18	0.5300	P	4.4
4	☐	1250.000	1264.157	227659.50	1.3016	P	0.5
5	☐	2500.000	2537.210	455624.42	2.6120	P	1.8
6	☐	5000.000	5074.472	901307.20	5.2238	P	1.7
7	☐	10000.000	9950.965	1763798.36	10.2433	A	1.8
8	☐			3966.16	0.0227	P	3.6

$$y = 0.0010 * x + 3.8127E-004$$

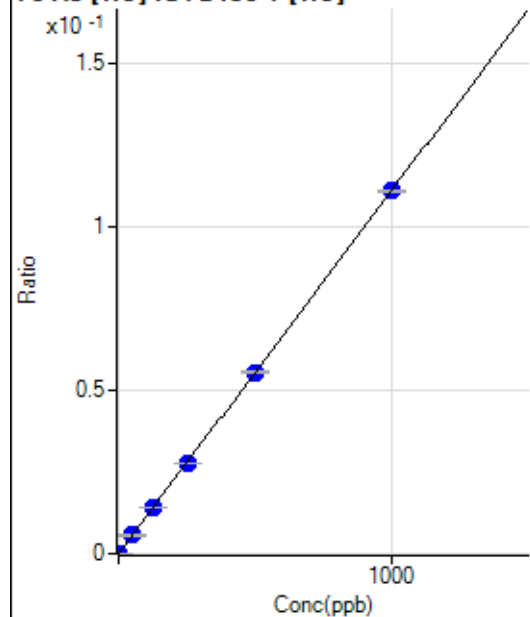
$$R = 1.0000$$

$$DL = 0.3937$$

$$BEC = 0.3704$$

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	6.00	0.0000	P	0.3
2	☐	1.000	0.908	127.34	0.0001	P	5.9
3	☐	50.000	50.566	6772.65	0.0056	P	4.6
4	☐	125.000	125.246	16923.50	0.0139	P	0.7
5	☐	250.000	249.575	33651.57	0.0277	P	0.7
6	☐	500.000	500.317	66864.34	0.0555	P	0.4
7	☐	1000.000	999.889	134278.28	0.1109	P	0.6
8	☐			51.68	0.0000	P	2.6

$$y = 1.1092E-004 * x + 4.9652E-006$$

$$R = 1.0000$$

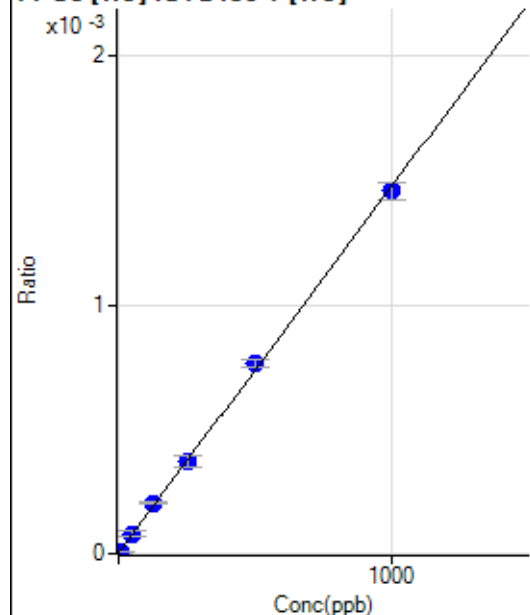
$$DL = 0.0004271$$

$$BEC = 0.04476$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	5.000	3.757	10.00	0.0000	P	66.9
3	☐	50.000	53.226	97.78	0.0001	P	23.9
4	☐	125.000	136.317	247.78	0.0002	P	4.0
5	☐	250.000	252.151	454.46	0.0004	P	12.7
6	☐	500.000	519.263	924.48	0.0008	P	4.4
7	☐	1000.000	988.261	1764.58	0.0015	P	4.5
8	☐			3.33	0.0000	P	99.6

$$y = 1.4722\text{E-}006 * x + 2.7641\text{E-}006$$

$$R = 0.9997$$

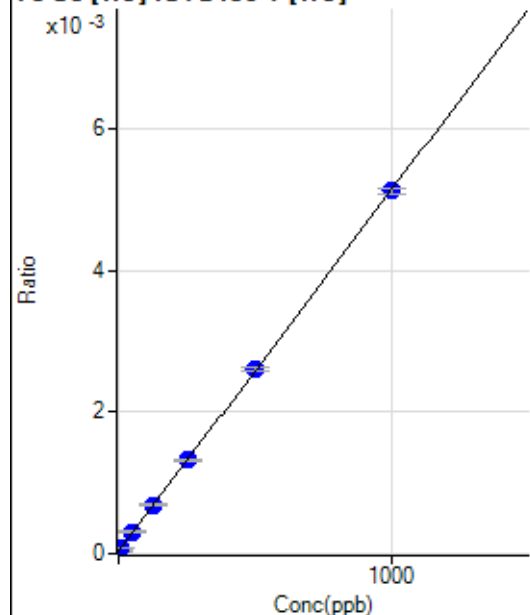
$$DL = 9.756$$

$$BEC = 1.877$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.34	0.0000	P	23.0
2	☐	5.000	6.094	83.68	0.0001	P	0.6
3	☐	50.000	53.167	373.38	0.0003	P	9.6
4	☐	125.000	127.348	838.44	0.0007	P	1.8
5	☐	250.000	251.027	1604.26	0.0013	P	3.4
6	☐	500.000	503.025	3140.34	0.0026	P	1.5
7	☐	1000.000	997.773	6213.67	0.0051	P	1.7
8	☐			51.01	0.0000	P	23.7

$$y = 5.1053\text{E-}006 * x + 3.8340\text{E-}005$$

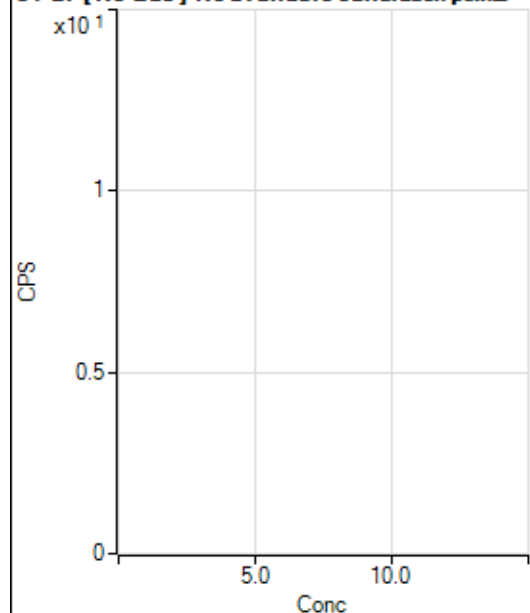
$$R = 1.0000$$

$$DL = 5.179$$

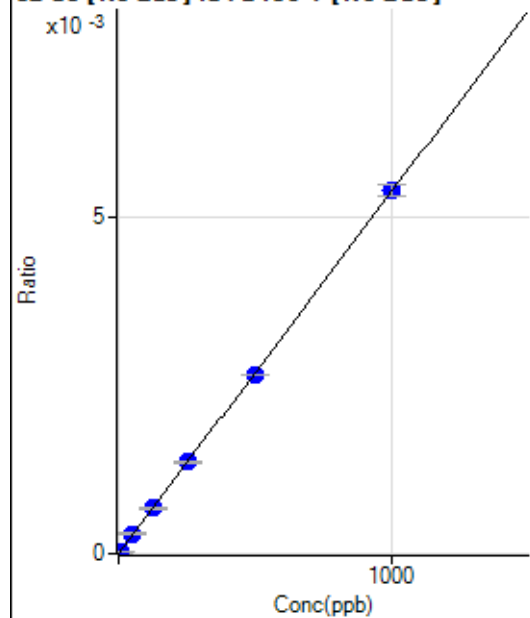
$$BEC = 7.51$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2592.91		P	12.0
2	☐			2476.11		P	4.1
3	☐			2466.09		P	5.8
4	☐			2426.06		P	9.8
5	☐			2509.49		P	7.9
6	☐			2719.74		P	12.3
7	☐			2602.92		P	4.2
8	☐			2629.61		P	9.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-7.04	0.0000	P	-431.
2	☐	5.000	5.478	280.87	0.0000	P	28.2
3	☐	50.000	54.411	2642.47	0.0003	P	10.9
4	☐	125.000	125.458	6538.40	0.0007	P	4.4
5	☐	250.000	253.260	13228.53	0.0014	P	3.1
6	☐	500.000	493.498	26255.75	0.0027	P	0.2
7	☐	1000.000	1002.156	52100.22	0.0054	P	3.1
8	☐			9.55	0.0000	P	494.6

$$y = 5.3819\text{E-}006 * x - 7.2577\text{E-}007$$

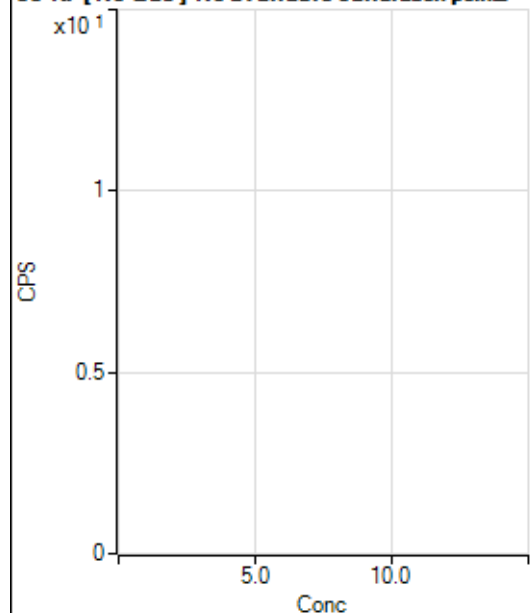
$$R = 1.0000$$

$$DL = 1.745$$

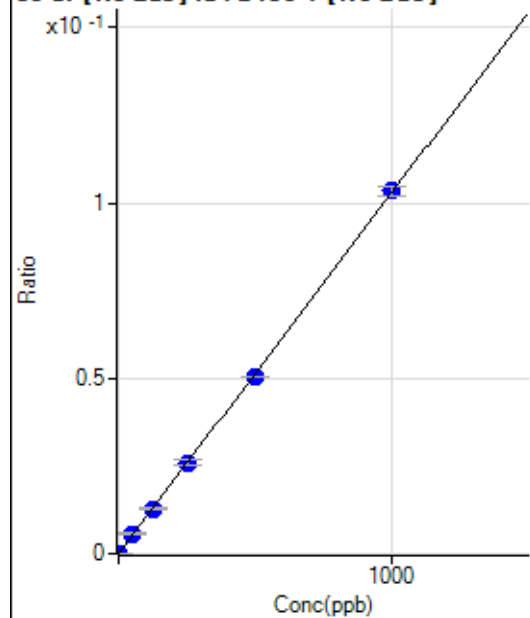
$$BEC = -0.1349$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			436.68		P	7.0
2	☐			405.57		P	14.5
3	☐			453.35		P	15.6
4	☐			452.24		P	12.0
5	☐			437.79		P	7.0
6	☐			386.68		P	14.7
7	☐			422.23		P	12.9
8	☐			448.90		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	727.82	0.0001	P	19.4
2	☐	1.000	0.916	1650.15	0.0002	P	6.5
3	☐	50.000	53.535	50528.22	0.0056	P	9.2
4	☐	125.000	123.477	123819.53	0.0128	P	3.3
5	☐	250.000	252.318	252559.06	0.0260	P	4.9
6	☐	500.000	488.520	497455.22	0.0503	P	0.4
7	☐	1000.000	1005.174	999341.03	0.1034	P	3.0
8	☐			6248.78	0.0006	P	5.6

$$y = 1.0283E-004 * x + 7.5228E-005$$

$$R = 0.9999$$

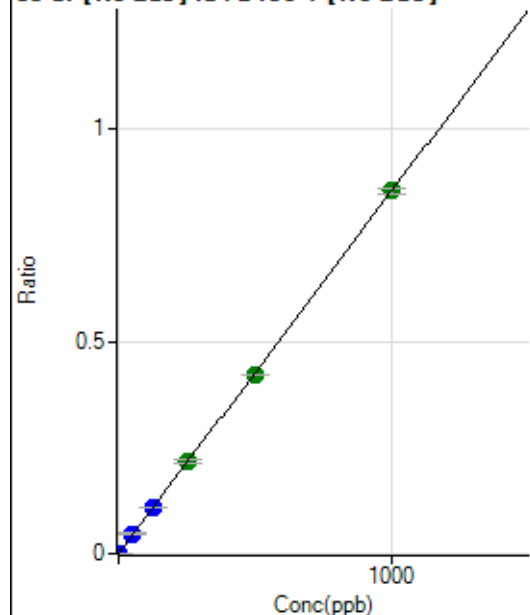
$$DL = 0.4247$$

$$BEC = 0.7316$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	111.11	0.0000	P	53.1
2	☐	1.000	0.956	8069.19	0.0008	P	1.5
3	☐	50.000	55.126	425663.03	0.0471	P	11.6
4	☐	125.000	128.582	1064763.66	0.1098	P	1.8
5	☐	250.000	253.729	2102968.65	0.2167	A	4.9
6	☐	500.000	494.829	4178202.52	0.4225	A	0.4
7	☐	1000.000	1000.949	8259212.77	0.8547	A	1.5
8	☐			48646.43	0.0049	P	0.8

$$y = 8.5387\text{E-}004 * x + 1.1491\text{E-}005$$

$$R = 1.0000$$

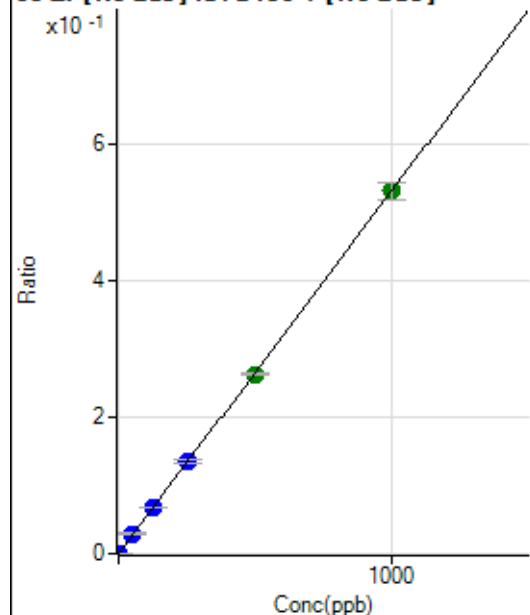
$$DL = 0.02143$$

$$BEC = 0.01346$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	405.57	0.0000	P	12.0
2	☐	1.000	0.936	5245.56	0.0005	P	0.6
3	☐	50.000	54.831	263117.35	0.0291	P	11.4
4	☐	125.000	127.539	655773.11	0.0676	P	2.8
5	☐	250.000	253.688	1305656.09	0.1345	P	4.2
6	☐	500.000	495.544	2597545.44	0.2627	A	0.6
7	☐	1000.000	1000.747	5123431.54	0.5304	A	4.5
8	☐			1722.38	0.0002	P	4.6

$$y = 5.2999\text{E-}004 * x + 4.1925\text{E-}005$$

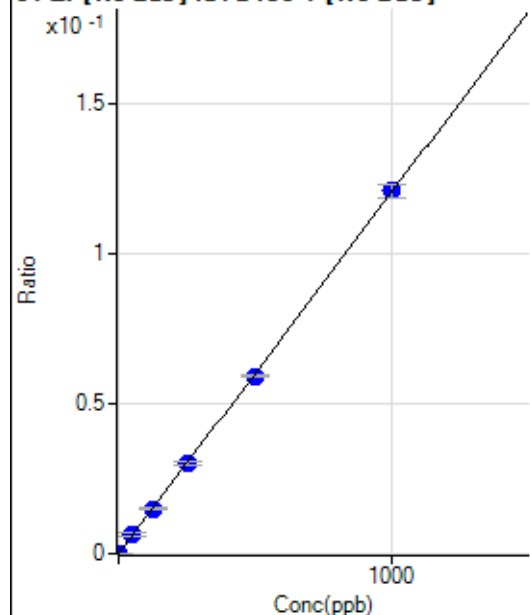
$$R = 1.0000$$

$$DL = 0.02856$$

$$BEC = 0.07911$$

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	80.56	0.0000	P	43.5
2	☐	1.000	0.843	1072.30	0.0001	P	1.9
3	☐	50.000	53.253	58085.66	0.0064	P	12.8
4	☐	125.000	123.873	144923.90	0.0149	P	2.5
5	☐	250.000	248.106	290573.41	0.0299	P	3.9
6	☐	500.000	491.979	586755.91	0.0593	P	0.2
7	☐	1000.000	1004.462	1170253.15	0.1211	P	3.7
8	☐			391.68	0.0000	P	23.8

$$y = 1.2060\text{E-}004 * x + 8.3417\text{E-}006$$

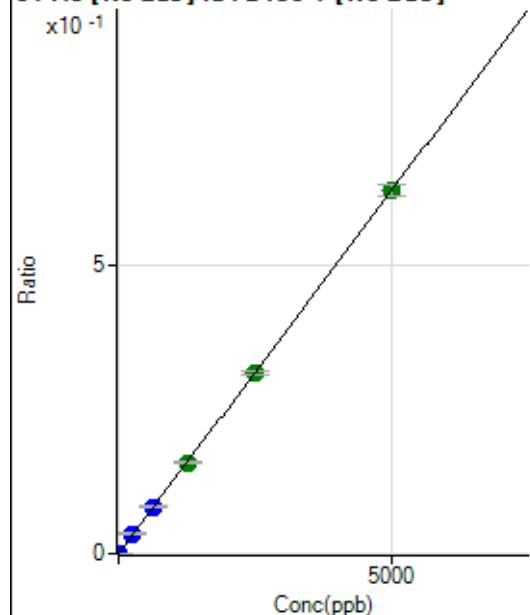
$$R = 0.9999$$

$$DL = 0.09016$$

$$BEC = 0.06917$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	150.01	0.0000	P	10.6
2	☐	5.000	4.794	6040.34	0.0006	P	4.0
3	☐	250.000	273.661	312171.76	0.0345	P	10.9
4	☐	625.000	643.036	786081.96	0.0811	P	2.8
5	☐	1250.000	1256.523	1538301.72	0.1584	A	3.1
6	☐	2500.000	2494.344	3109117.89	0.3145	A	1.5
7	☐	5000.000	4997.760	6086812.42	0.6300	A	3.1
8	☐			1877.95	0.0002	P	7.0

$$y = 1.2606\text{E-}004 * x + 1.5505\text{E-}005$$

$$R = 1.0000$$

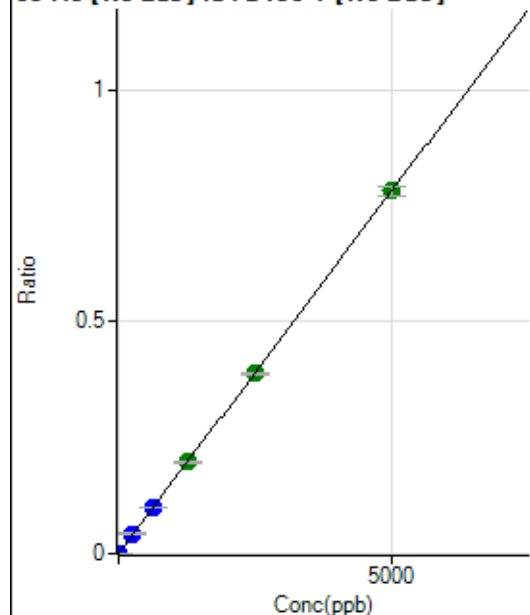
$$DL = 0.03905$$

$$BEC = 0.123$$

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	36.11	0.0000	P	34.9
2	☐	5.000	4.679	7171.50	0.0007	P	3.4
3	☐	250.000	270.325	382642.77	0.0423	P	10.4
4	☐	625.000	632.581	959497.89	0.0990	P	2.3
5	☐	1250.000	1262.385	1917305.86	0.1975	A	3.7
6	☐	2500.000	2484.852	3843539.23	0.3887	A	0.7
7	☐	5000.000	5002.514	7560471.00	0.7825	A	2.8
8	☐			2139.12	0.0002	P	7.2

$$y = 1.5643\text{E-}004 * x + 3.7320\text{E-}006$$

$$R = 1.0000$$

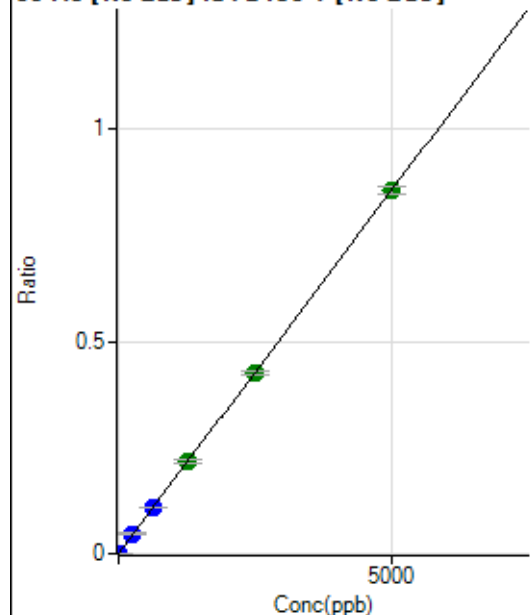
$$DL = 0.025$$

$$BEC = 0.02386$$

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	94.45	0.0000	P	26.6
2	☐	5.000	4.685	7905.22	0.0008	P	2.8
3	☐	250.000	273.500	423439.51	0.0468	P	10.2
4	☐	625.000	637.811	1057997.97	0.1091	P	2.2
5	☐	1250.000	1275.894	2119020.51	0.2183	A	4.0
6	☐	2500.000	2493.947	4218047.23	0.4266	A	1.6
7	☐	5000.000	4993.777	8254288.99	0.8542	A	2.2
8	☐			2914.27	0.0003	P	7.2

$$y = 1.7106\text{E-}004 * x + 9.7577\text{E-}006$$

$$R = 1.0000$$

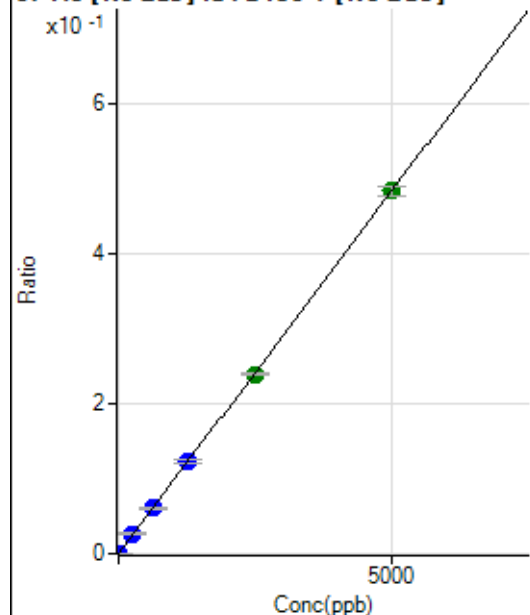
$$DL = 0.04547$$

$$BEC = 0.05704$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	5.000	4.585	4317.45	0.0004	P	2.3
3	☐	250.000	270.833	236341.60	0.0261	P	11.0
4	☐	625.000	630.870	590207.51	0.0609	P	2.4
5	☐	1250.000	1266.386	1185987.56	0.1222	P	4.8
6	☐	2500.000	2476.269	2362417.37	0.2389	A	0.8
7	☐	5000.000	5005.994	4666766.94	0.4830	A	2.4
8	☐			1350.11	0.0001	P	9.0

$$y = 9.6485\text{E-}005 * x + 2.8585\text{E-}007$$

$$R = 1.0000$$

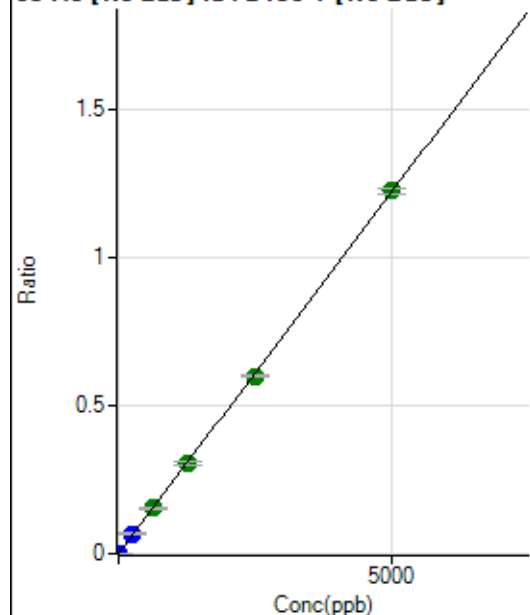
$$DL = 0.01539$$

$$BEC = 0.002963$$

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	11.11	0.0000	P	43.1
2	☐	5.000	4.925	11746.94	0.0012	P	3.1
3	☐	250.000	273.640	604862.56	0.0669	P	11.9
4	☐	625.000	629.565	1492915.29	0.1540	A	1.9
5	☐	1250.000	1253.875	2976220.88	0.3066	A	4.9
6	☐	2500.000	2459.249	5946769.88	0.6014	A	0.6
7	☐	5000.000	5017.654	11857631.60	1.2271	A	1.3
8	☐			3200.45	0.0003	P	2.4

$$y = 2.4455\text{E-}004 * x + 1.1483\text{E-}006$$

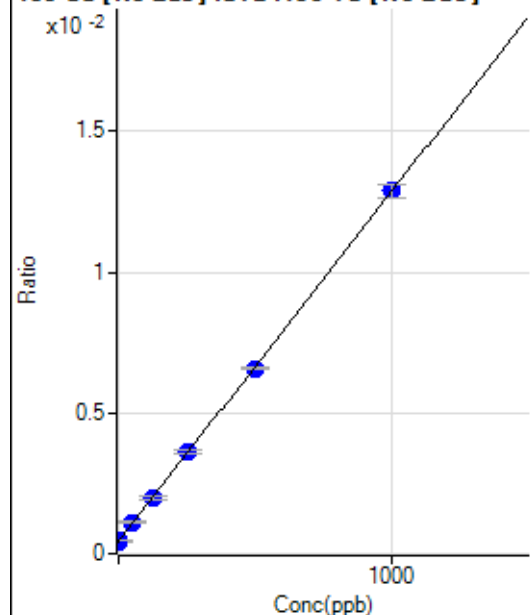
$$R = 0.9999$$

$$DL = 0.006078$$

$$BEC = 0.004695$$

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	2625.34	0.0004	P	2.5
2	☐	1.000	3.298	2894.83	0.0005	P	4.6
3	☐	50.000	54.378	6279.42	0.0011	P	7.1
4	☐	125.000	123.100	11872.09	0.0020	P	5.3
5	☐	250.000	254.571	22009.75	0.0036	P	4.6
6	☐	500.000	493.417	41290.29	0.0066	P	1.3
7	☐	1000.000	1002.165	79809.18	0.0129	P	3.5
8	☐			2783.70	0.0004	P	6.1

$$y = 1.2419\text{E-}005 * x + 4.4286\text{E-}004$$

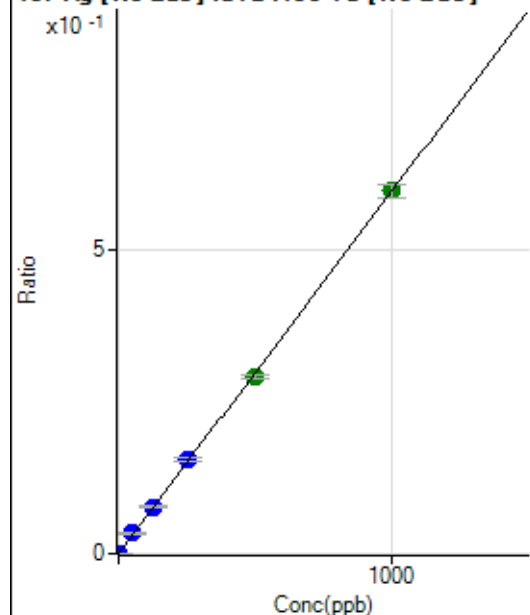
$$R = 0.9999$$

$$DL = 2.64$$

$$BEC = 35.66$$

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	37.7
2	☐	1.000	0.908	3333.84	0.0006	P	2.9
3	☐	50.000	56.039	187067.93	0.0334	P	11.8
4	☐	125.000	129.453	465087.00	0.0772	P	2.1
5	☐	250.000	258.871	942880.73	0.1544	P	4.5
6	☐	500.000	489.704	1835409.70	0.2921	A	1.7
7	☐	1000.000	1002.072	3700427.90	0.5976	A	3.7
8	☐			1891.85	0.0003	P	5.7

$$y = 5.9639\text{E-}004 * x + 1.5517\text{E-}005$$

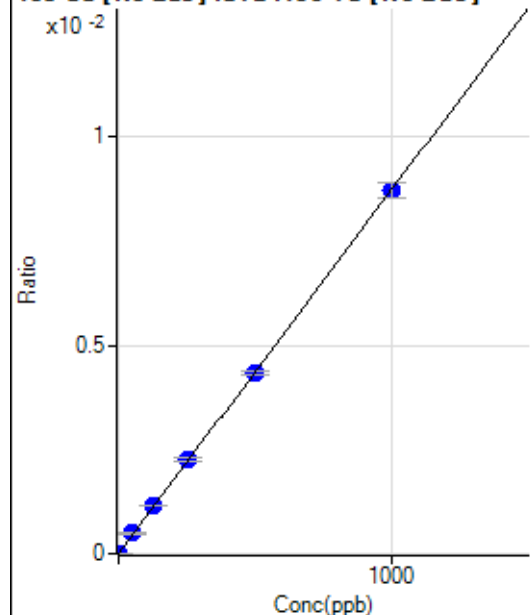
$$R = 0.9999$$

$$DL = 0.02941$$

$$BEC = 0.02602$$

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	9.72	0.0000	P	64.2
2	☐	1.000	1.037	63.89	0.0000	P	26.4
3	☐	50.000	56.550	2778.09	0.0005	P	8.4
4	☐	125.000	130.089	6847.61	0.0011	P	0.6
5	☐	250.000	260.752	13905.77	0.0023	P	4.3
6	☐	500.000	498.225	27329.93	0.0043	P	2.6
7	☐	1000.000	997.236	53888.08	0.0087	P	4.3
8	☐			59.72	0.0000	P	38.1

$$y = 8.7260\text{E-}006 * x + 1.6324\text{E-}006$$

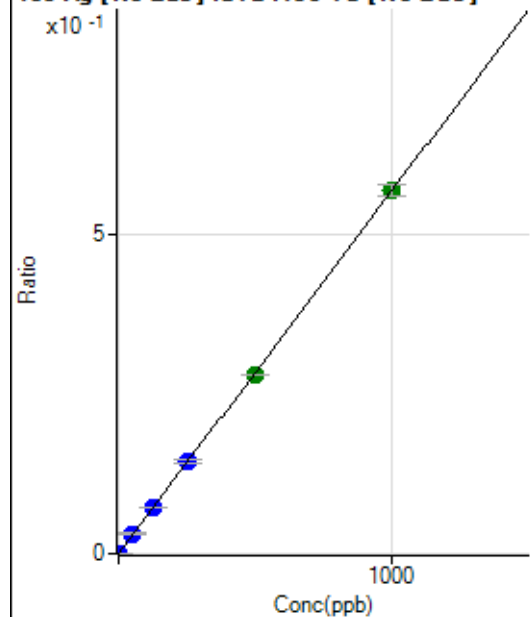
$$R = 0.9999$$

$$DL = 0.3601$$

$$BEC = 0.1871$$

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	36.11	0.0000	P	56.9
2	☐	1.000	0.988	3383.86	0.0006	P	2.7
3	☐	50.000	55.352	175302.94	0.0314	P	13.8
4	☐	125.000	127.794	436339.96	0.0724	P	1.9
5	☐	250.000	256.529	888026.38	0.1454	P	4.5
6	☐	500.000	493.122	1756664.75	0.2795	A	0.9
7	☐	1000.000	1001.190	3514705.64	0.5675	A	3.2
8	☐			1819.62	0.0003	P	3.4

$$y = 5.6687\text{E-}004 * x + 6.0676\text{E-}006$$

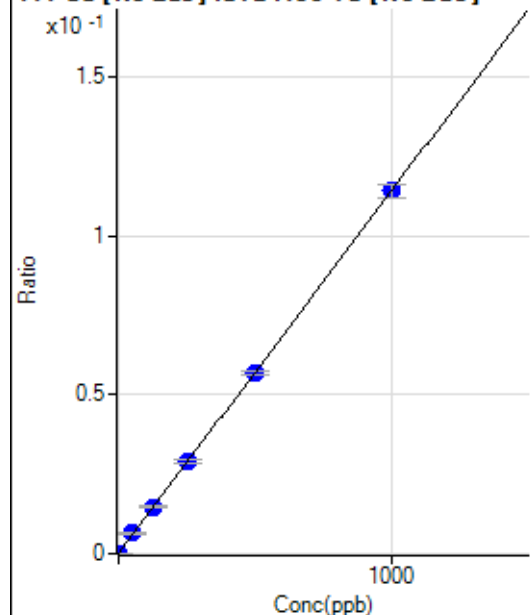
$$R = 0.9999$$

$$DL = 0.01826$$

$$BEC = 0.0107$$

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	526.59	0.0001	P	3.5
2	☐	1.000	1.242	1378.73	0.0002	P	2.3
3	☐	50.000	56.292	36390.30	0.0065	P	12.7
4	☐	125.000	128.724	88958.07	0.0148	P	2.6
5	☐	250.000	253.754	177310.70	0.0290	P	3.9
6	☐	500.000	496.768	356616.18	0.0567	P	1.5
7	☐	1000.000	999.897	706649.63	0.1141	P	4.0
8	☐			813.55	0.0001	P	8.1

$$y = 1.1406\text{E-}004 * x + 8.8839\text{E-}005$$

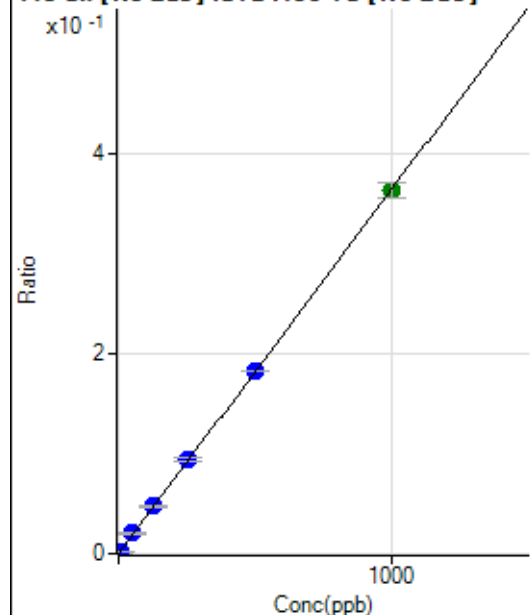
$$R = 1.0000$$

$$DL = 0.08132$$

$$BEC = 0.7789$$

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	272.23	0.0000	P	2.3
2	☐	5.000	4.723	10573.80	0.0018	P	5.0
3	☐	50.000	55.395	113260.70	0.0202	P	11.9
4	☐	125.000	129.704	285157.74	0.0473	P	1.2
5	☐	250.000	257.754	574170.04	0.0940	P	5.1
6	☐	500.000	501.801	1150214.15	0.1830	P	0.7
7	☐	1000.000	996.304	2249575.96	0.3634	A	4.2
8	☐			747.26	0.0001	P	11.4

$$y = 3.6466\text{E-}004 * x + 4.5904\text{E-}005$$

$$R = 1.0000$$

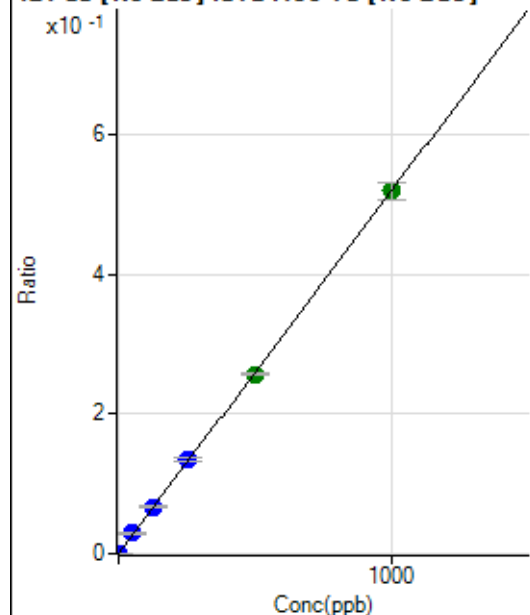
$$DL = 0.008499$$

$$BEC = 0.1259$$

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	33.33	0.0000	P	25.8
2	☐	2.000	1.953	6104.32	0.0010	P	2.4
3	☐	50.000	55.816	162068.38	0.0290	P	13.7
4	☐	125.000	128.754	403003.64	0.0669	P	2.7
5	☐	250.000	257.555	817390.47	0.1338	P	4.3
6	☐	500.000	495.076	1616781.62	0.2573	A	1.0
7	☐	1000.000	999.813	3216547.56	0.5196	A	4.5
8	☐			2119.66	0.0003	P	12.1

$$y = 5.1967\text{E-}004 * x + 5.6283\text{E-}006$$

$$R = 0.9999$$

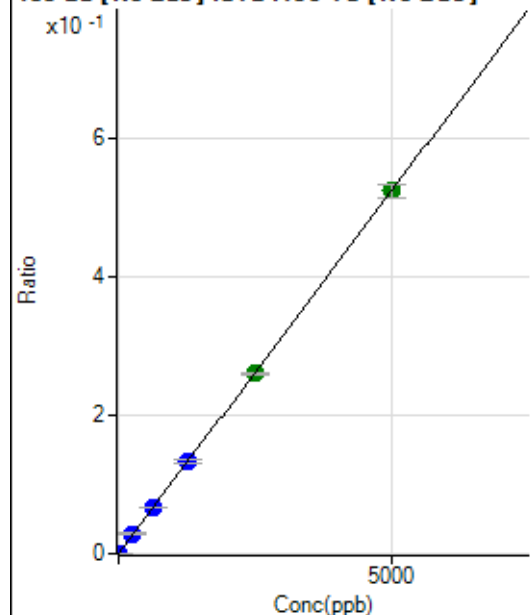
$$DL = 0.008395$$

$$BEC = 0.01083$$

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	57.6
2	☐	10.000	9.932	6243.27	0.0010	P	1.7
3	☐	250.000	276.067	161693.03	0.0289	P	12.6
4	☐	625.000	637.861	402364.70	0.0668	P	2.3
5	☐	1250.000	1275.152	815862.86	0.1336	P	3.0
6	☐	2500.000	2479.260	1631763.21	0.2597	A	0.8
7	☐	5000.000	5001.171	3243210.14	0.5238	A	3.7
8	☐			5940.34	0.0009	P	5.8

$$y = 1.0473\text{E-}004 * x + 3.7631\text{E-}006$$

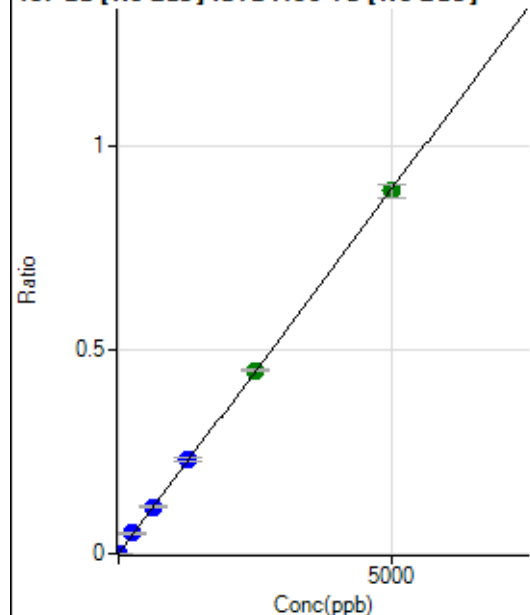
$$R = 1.0000$$

$$DL = 0.06214$$

$$BEC = 0.03593$$

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	19.44	0.0000	P	138.6
2	☐	10.000	9.618	10318.10	0.0017	P	2.4
3	☐	250.000	277.948	278246.84	0.0498	P	12.6
4	☐	625.000	643.738	694125.35	0.1152	P	1.8
5	☐	1250.000	1294.916	1415688.64	0.2318	P	4.4
6	☐	2500.000	2511.326	2825330.01	0.4496	A	0.8
7	☐	5000.000	4979.369	5519581.85	0.8914	A	3.7
8	☐			10434.83	0.0017	P	4.0

$$y = 1.7903E-004 * x + 3.3116E-006$$

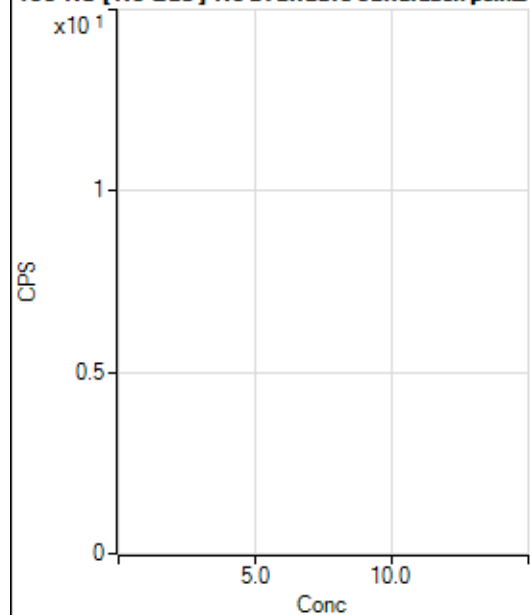
$$R = 0.9999$$

$$DL = 0.07692$$

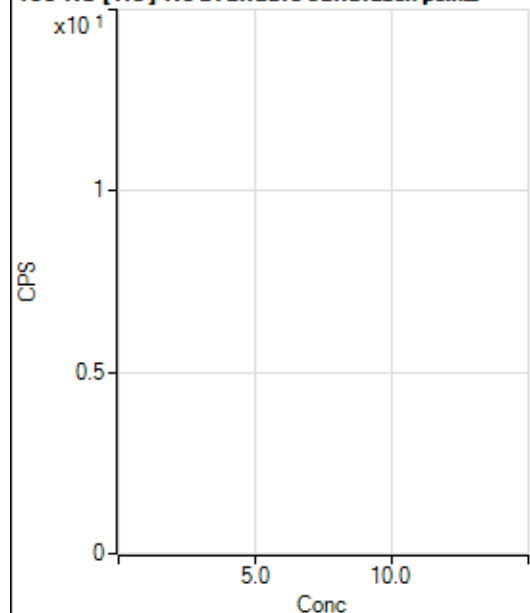
$$BEC = 0.0185$$

Weight: <None>

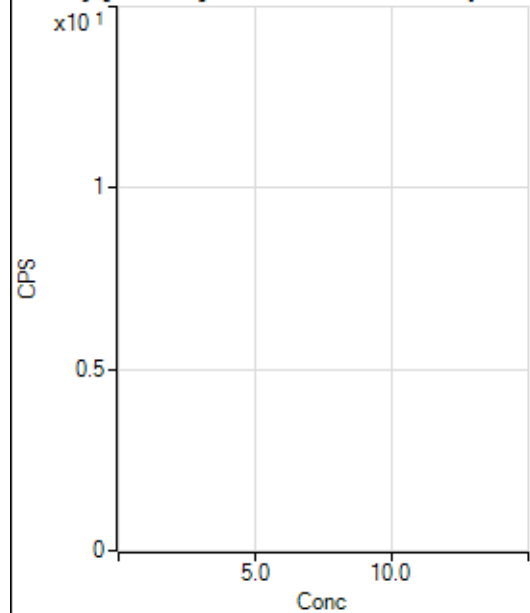
Min Conc: 0

150 Nd [No Gas] No available calibration points

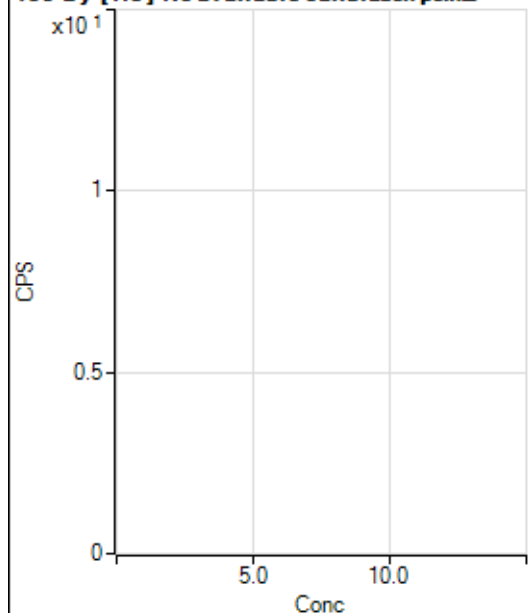
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			8.89		P	114.5
3	☐			6.67		P	100.0
4	☐			28.89		P	35.2
5	☐			28.89		P	26.6
6	☐			57.78		P	6.7
7	☐			144.45		P	30.7
8	☐			20.00		P	57.7

150 Nd [He] No available calibration points

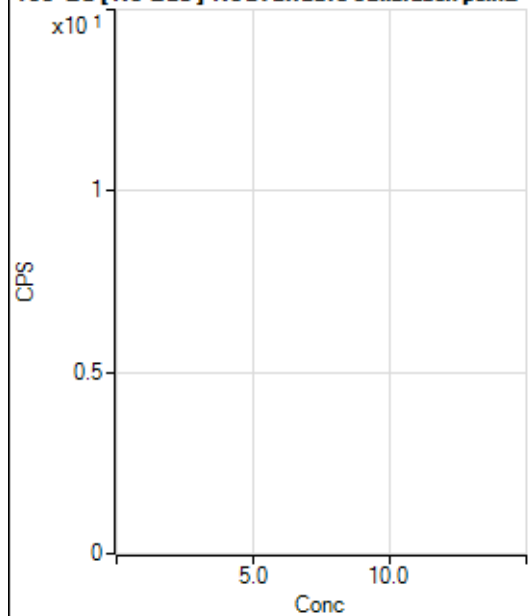
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			3.33		P	0.0
5	☐			2.22		P	173.2
6	☐			3.33		P	100.1
7	☐			8.89		P	57.3
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

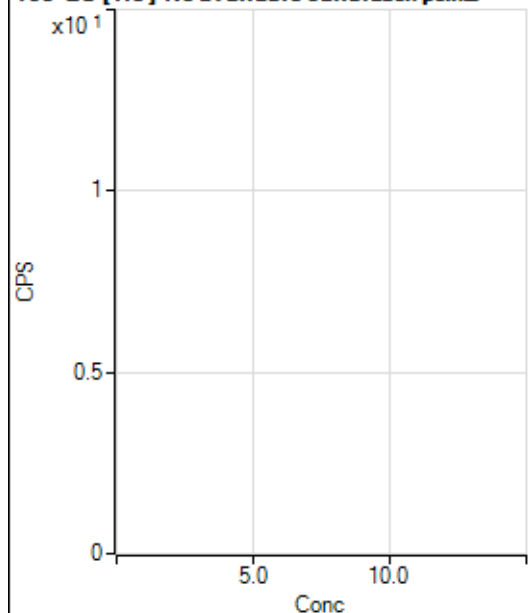
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			5.55		P	86.6
3	☐			5.56		P	173.2
4	☐			5.55		P	86.6
5	☐			30.56		P	31.5
6	☐			44.45		P	28.7
7	☐			47.22		P	81.5
8	☐			155.56		P	11.2

156 Dy [He] No available calibration points

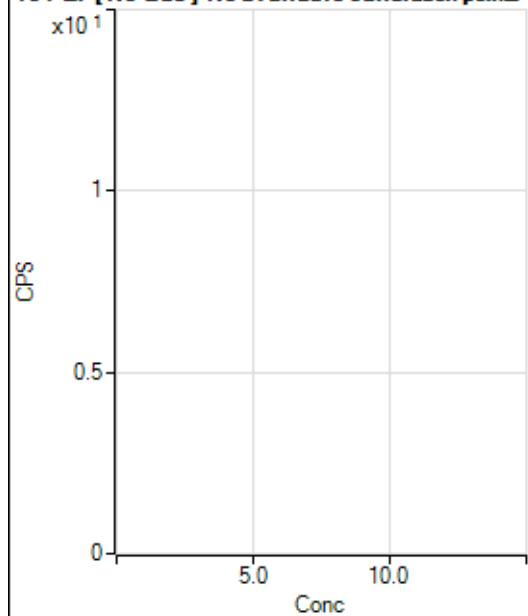
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			3.33		P	0.0
3	☐			5.56		P	34.7
4	☐			7.78		P	89.2
5	☐			8.89		P	21.6
6	☐			15.56		P	32.7
7	☐			16.67		P	40.0
8	☐			102.22		P	12.3

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

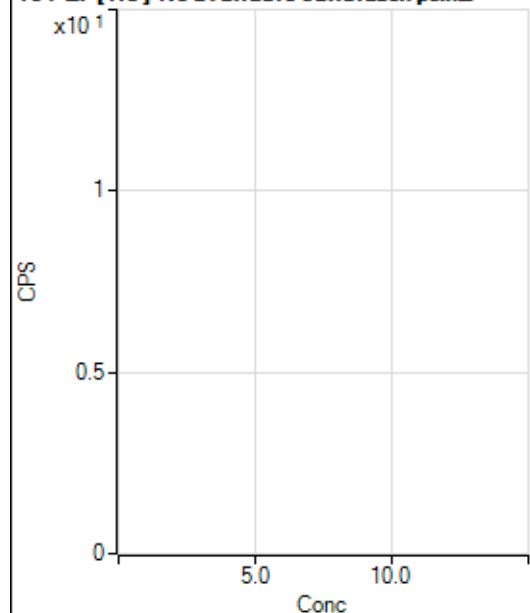
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	44.6
2	☐			83.34		P	10.0
3	☐			75.01		P	19.2
4	☐			91.67		P	9.1
5	☐			69.45		P	18.3
6	☐			83.34		P	50.0
7	☐			111.11		P	24.1
8	☐			238.90		P	23.2

160 Gd [He] No available calibration points

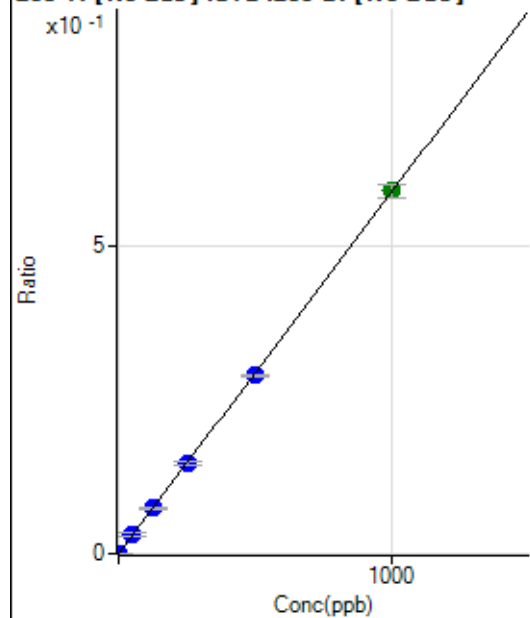
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	72.7
2	☐			18.89		P	62.0
3	☐			15.56		P	12.4
4	☐			32.22		P	6.0
5	☐			26.66		P	43.3
6	☐			46.67		P	56.7
7	☐			35.55		P	10.8
8	☐			141.11		P	1.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	35.3
2	☐			33.33		P	0.0
3	☐			30.55		P	15.7
4	☐			41.67		P	52.9
5	☐			36.11		P	96.1
6	☐			47.22		P	97.2
7	☐			38.89		P	32.7
8	☐			61.11		P	56.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			8.89		P	43.3
3	☐			13.34		P	43.3
4	☐			15.56		P	65.5
5	☐			8.89		P	57.3
6	☐			21.11		P	50.8
7	☐			16.67		P	40.0
8	☐			23.34		P	24.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.0
2	☐	1.000	0.956	1827.96	0.0006	P	7.8
3	☐	50.000	53.022	94924.03	0.0312	P	12.5
4	☐	125.000	125.382	236643.87	0.0739	P	1.9
5	☐	250.000	251.005	481852.36	0.1479	P	4.0
6	☐	500.000	492.040	969802.10	0.2899	P	1.1
7	☐	1000.000	1003.530	1932233.23	0.5913	A	3.9
8	☐			1350.11	0.0004	P	10.8

$$y = 5.8917\text{E-}004 * x + 5.2188\text{E-}006$$

$$R = 0.9999$$

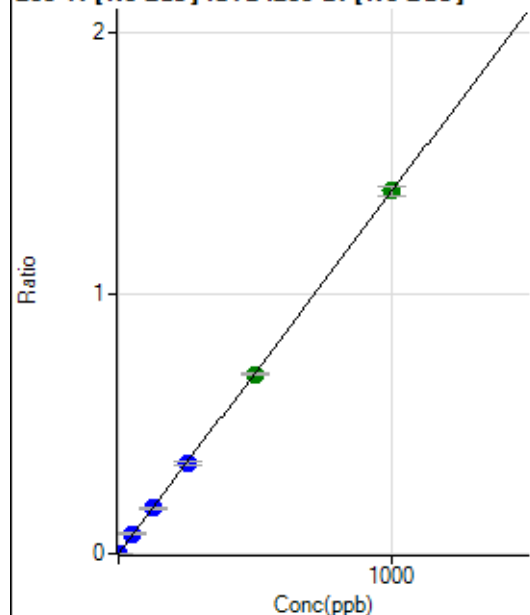
$$DL = 0.01302$$

$$BEC = 0.008858$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.11	0.0000	P	52.7
2	☐	1.000	0.943	4264.71	0.0013	P	1.4
3	☐	50.000	54.175	228997.03	0.0754	P	12.9
4	☐	125.000	126.057	561901.04	0.1754	P	2.5
5	☐	250.000	250.386	1135175.03	0.3484	P	4.3
6	☐	500.000	495.344	2305812.57	0.6893	A	1.4
7	☐	1000.000	1001.891	4557585.47	1.3942	A	2.4
8	☐			3253.28	0.0010	P	9.8

$$y = 0.0014 * x + 1.1338E-005$$

$$R = 1.0000$$

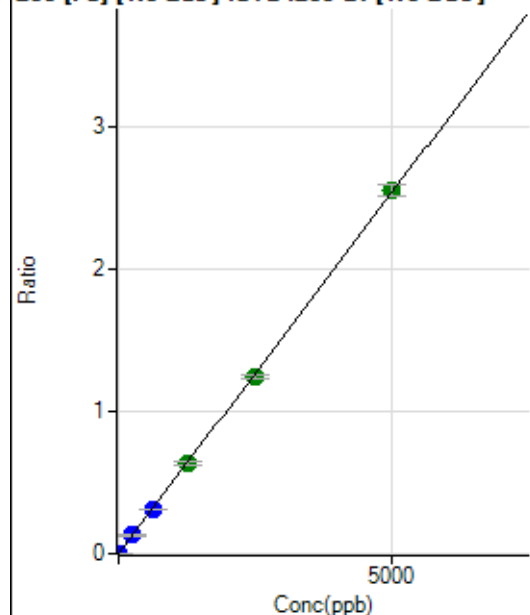
$$DL = 0.01287$$

$$BEC = 0.008147$$

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	224.08	0.0001	P	6.4
2	☐	1.000	0.894	1690.89	0.0005	P	3.3
3	☐	250.000	260.721	402832.74	0.1325	P	12.0
4	☐	625.000	616.906	1004212.03	0.3135	P	2.7
5	☐	1250.000	1243.777	2059115.51	0.6320	A	4.3
6	☐	2500.000	2449.238	4162934.38	1.2445	A	1.9
7	☐	5000.000	5027.412	8349487.34	2.5545	A	3.3
8	☐			2337.28	0.0007	P	4.5

$$y = 5.0811E-004 * x + 7.0495E-005$$

$$R = 0.9999$$

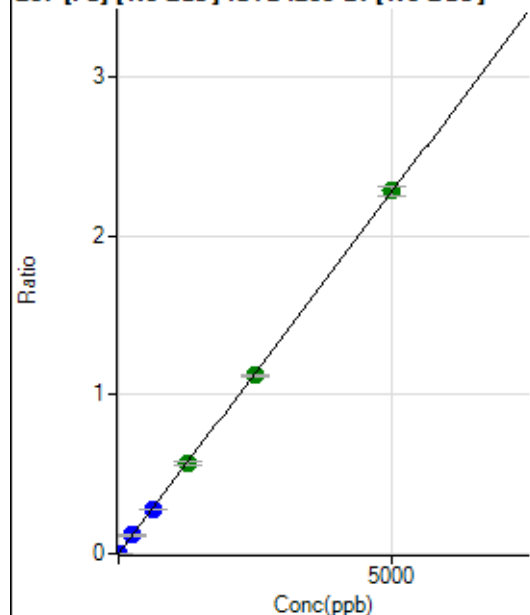
$$DL = 0.02657$$

$$BEC = 0.1387$$

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	255.56	0.0001	P	11.0
2	☐	1.000	0.905	1583.46	0.0005	P	4.9
3	☐	250.000	259.004	358182.63	0.1178	P	11.8
4	☐	625.000	615.264	896282.61	0.2798	P	1.7
5	☐	1250.000	1241.045	1838427.04	0.5643	A	4.6
6	☐	2500.000	2468.998	3755188.19	1.1226	A	1.0
7	☐	5000.000	5018.507	7458433.15	2.2817	A	2.4
8	☐			2046.50	0.0006	P	5.1

$$y = 4.5463\text{E-}004 * x + 8.0474\text{E-}005$$

$$R = 1.0000$$

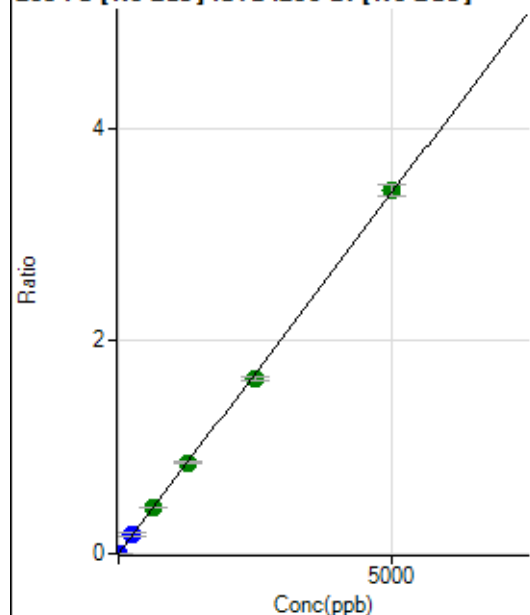
$$DL = 0.05854$$

$$BEC = 0.177$$

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	267.40	0.0001	P	32.5
2	☐	1.000	0.858	2146.85	0.0007	P	14.0
3	☐	250.000	267.551	552697.44	0.1817	P	11.7
4	☐	625.000	639.580	1391043.54	0.4343	A	3.4
5	☐	1250.000	1265.467	2800187.20	0.8593	A	3.4
6	☐	2500.000	2432.589	5524602.81	1.6517	A	2.2
7	☐	5000.000	5027.139	11157701.14	3.4132	A	3.3
8	☐			3221.48	0.0010	P	10.9

$$y = 6.7894\text{E-}004 * x + 8.3858\text{E-}005$$

$$R = 0.9998$$

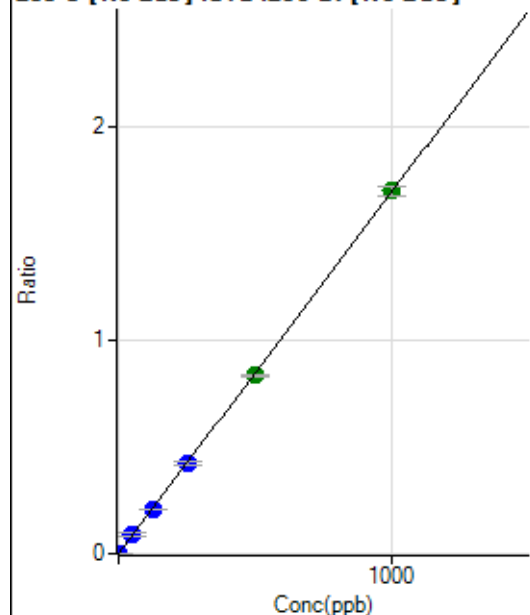
$$DL = 0.1205$$

$$BEC = 0.1235$$

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	11.11	0.0000	P	86.6
2	☐	1.000	0.898	4895.55	0.0015	P	3.6
3	☐	50.000	52.756	270678.56	0.0892	P	13.6
4	☐	125.000	123.458	668400.77	0.2087	P	1.4
5	☐	250.000	250.388	1378703.73	0.4232	P	4.1
6	☐	500.000	492.787	2786187.78	0.8328	A	0.5
7	☐	1000.000	1003.565	5544095.09	1.6961	A	2.5
8	☐			766.71	0.0002	P	6.7

$$y = 0.0017 * x + 3.5147E-006$$

$$R = 1.0000$$

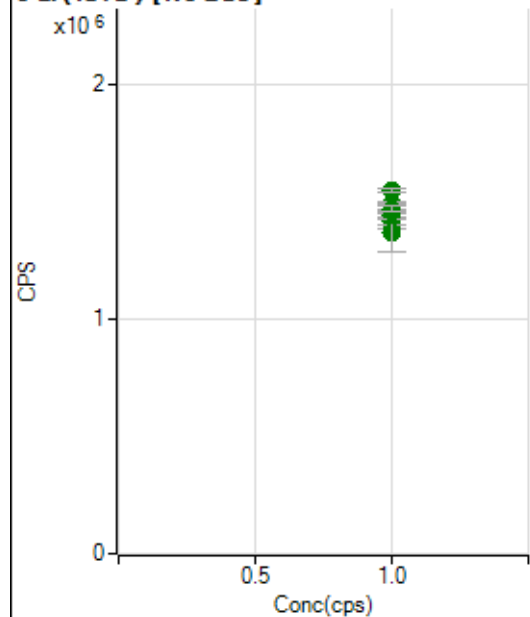
$$DL = 0.005404$$

$$BEC = 0.00208$$

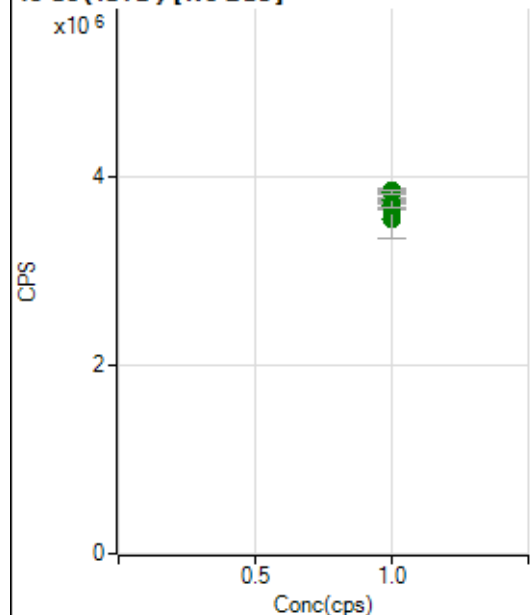
Weight: <None>

Min Conc: 0

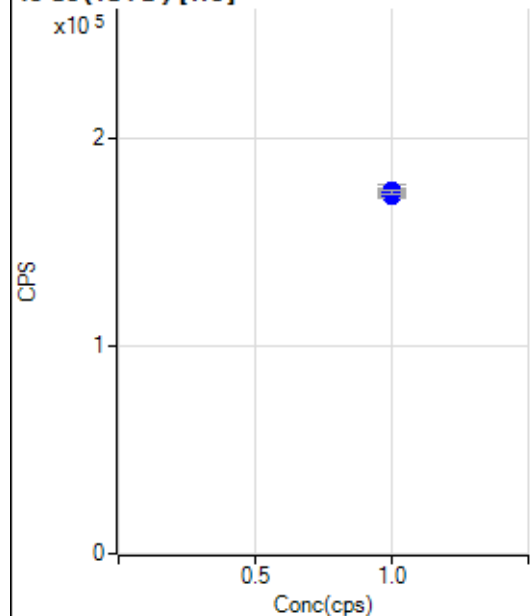
6 Li (ISTD) [No Gas]



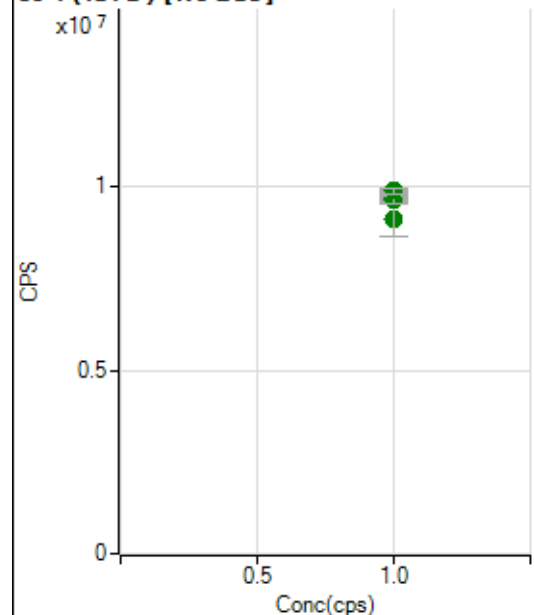
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1384651.45		A	0.3
2	☐	1.000		1413241.68		A	2.4
3	☐	1.000		1364616.29		A	11.8
4	☐	1.000		1438140.71		A	2.0
5	☐	1.000		1455558.59		A	1.5
6	☐	1.000		1492437.91		A	0.7
7	☐	1.000		1466998.52		A	1.6
8	☐	1.000		1544138.20		A	1.1

45 Sc (ISTD) [No Gas]

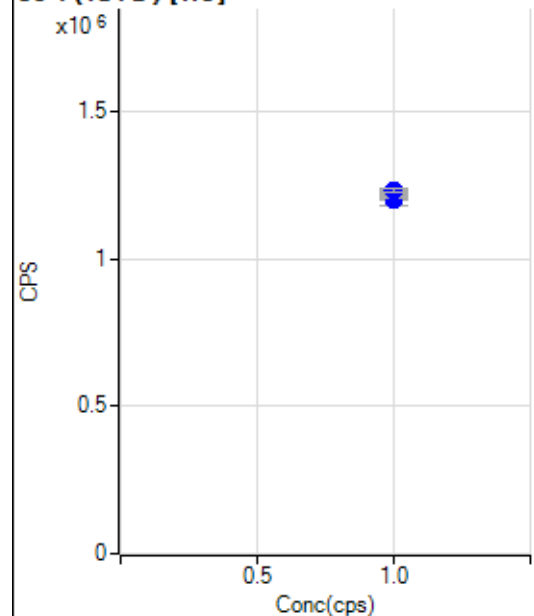
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3659693.07		A	0.2
2	☐	1.000		3745222.62		A	1.0
3	☐	1.000		3547623.94		A	11.0
4	☐	1.000		3694278.38		A	1.3
5	☐	1.000		3757379.53		A	4.3
6	☐	1.000		3851077.23		A	1.9
7	☐	1.000		3829188.27		A	3.1
8	☐	1.000		3841988.97		A	1.3

45 Sc (ISTD) [He]

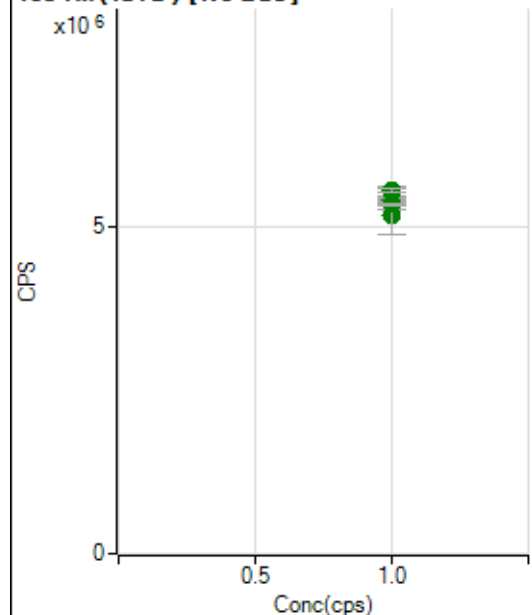
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		175022.74		P	0.5
2	☐	1.000		172143.06		P	0.3
3	☐	1.000		174719.82		P	3.6
4	☐	1.000		174907.98		P	1.0
5	☐	1.000		174459.33		P	1.4
6	☐	1.000		172563.56		P	1.3
7	☐	1.000		172210.33		P	1.0
8	☐	1.000		174789.41		P	1.0

89 Y (ISTD) [No Gas]

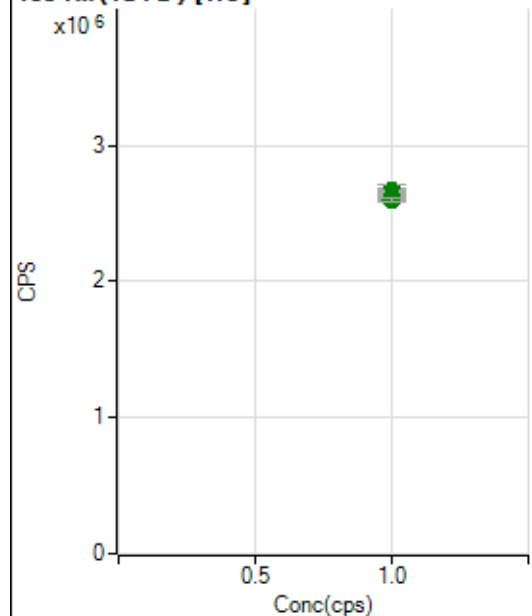
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9670903.61		A	0.6
2	☐	1.000		9749017.70		A	2.6
3	☐	1.000		9113772.36		A	10.5
4	☐	1.000		9699093.26		A	2.1
5	☐	1.000		9717240.90		A	3.5
6	☐	1.000		9888394.58		A	1.2
7	☐	1.000		9665194.78		A	2.1
8	☐	1.000		9894177.35		A	1.6

89 Y (ISTD) [He]

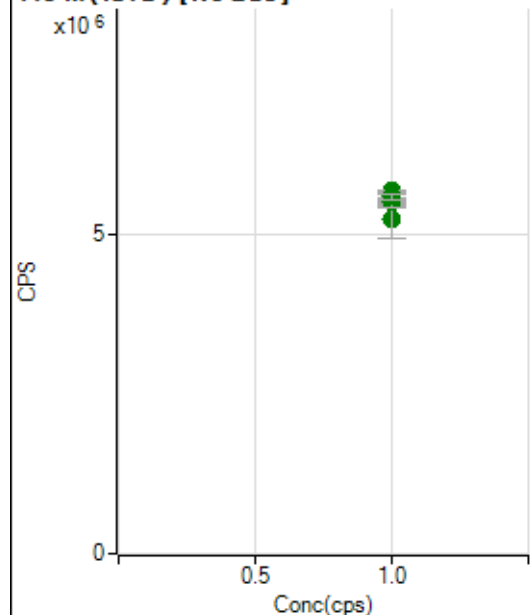
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1208418.85		P	0.3
2	☐	1.000		1204839.95		P	0.7
3	☐	1.000		1207918.65		P	4.1
4	☐	1.000		1217786.77		P	0.4
5	☐	1.000		1215406.97		P	0.2
6	☐	1.000		1204787.21		P	0.5
7	☐	1.000		1210707.18		P	0.6
8	☐	1.000		1232616.67		P	0.9

103 Rh (ISTD) [No Gas]

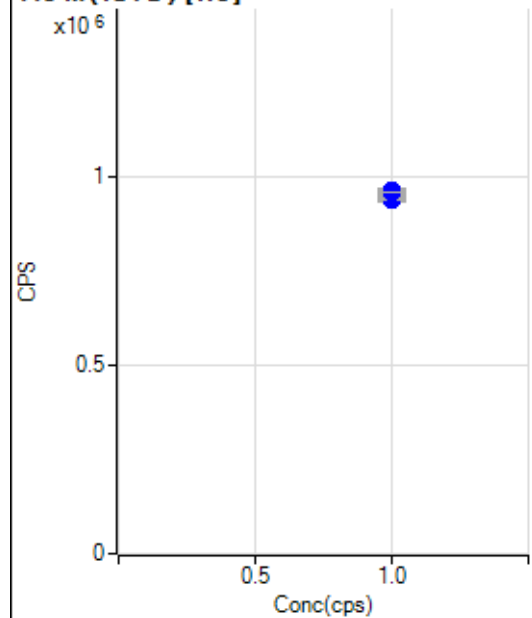
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5442950.34		A	1.0
2	☐	1.000		5530462.84		A	2.6
3	☐	1.000		5162549.16		A	10.6
4	☐	1.000		5408401.21		A	1.7
5	☐	1.000		5440087.62		A	3.5
6	☐	1.000		5541352.25		A	1.0
7	☐	1.000		5348550.86		A	3.2
8	☐	1.000		5332519.43		A	0.8

103 Rh (ISTD) [He]

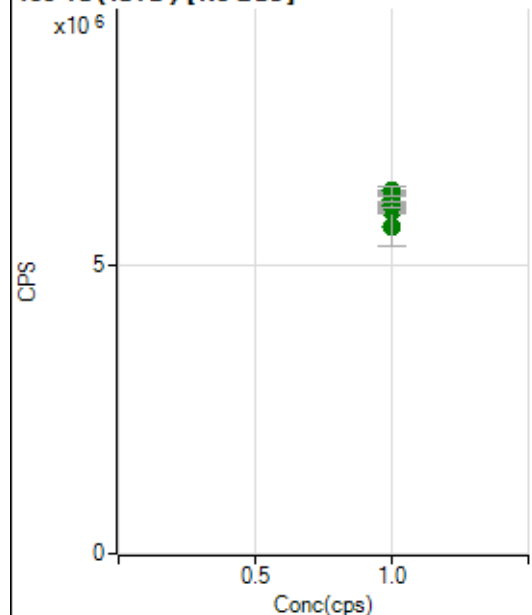
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2648970.38		A	0.5
2	☐	1.000		2611015.26		A	0.5
3	☐	1.000		2665066.28		A	3.2
4	☐	1.000		2659359.01		A	1.5
5	☐	1.000		2659173.99		A	0.7
6	☐	1.000		2632341.89		A	1.4
7	☐	1.000		2615321.00		A	1.0
8	☐	1.000		2601069.63		A	1.4

115 In (ISTD) [No Gas]

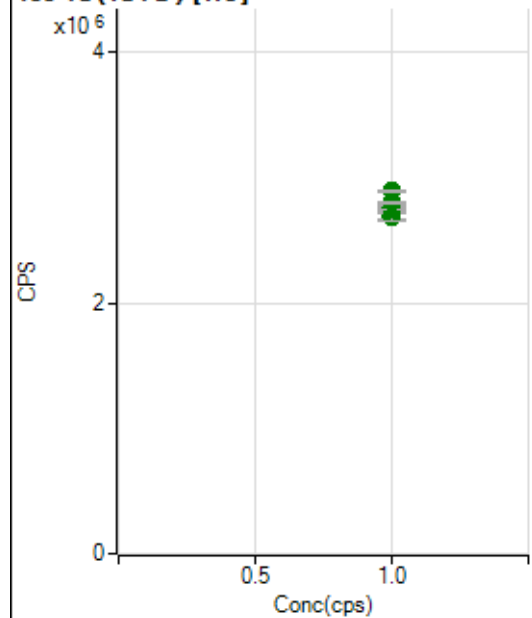
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5506368.03		A	1.8
2	☐	1.000		5589948.49		A	3.3
3	☐	1.000		5239125.60		A	11.3
4	☐	1.000		5577766.42		A	1.7
5	☐	1.000		5551995.59		A	3.6
6	☐	1.000		5670096.06		A	0.8
7	☐	1.000		5487321.14		A	2.7
8	☐	1.000		5577362.58		A	1.5

115 In (ISTD) [He]

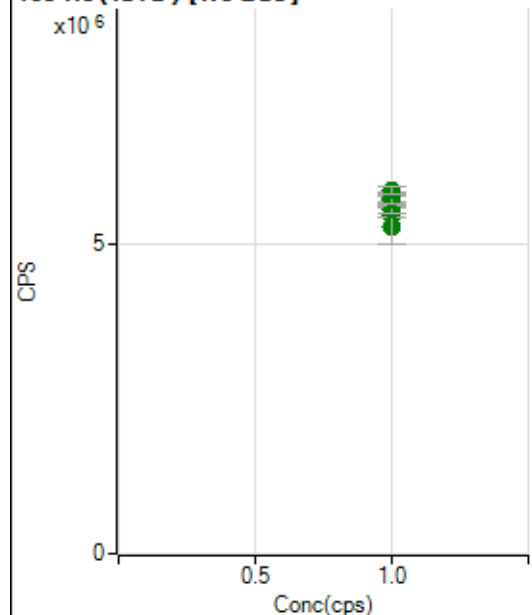
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		948608.31		P	0.3
2	☐	1.000		944529.57		P	0.4
3	☐	1.000		948891.11		P	3.9
4	☐	1.000		956720.45		P	1.0
5	☐	1.000		960919.30		P	0.6
6	☐	1.000		939785.16		P	1.1
7	☐	1.000		939160.04		P	0.5
8	☐	1.000		956599.97		P	0.3

159 Tb (ISTD) [No Gas]

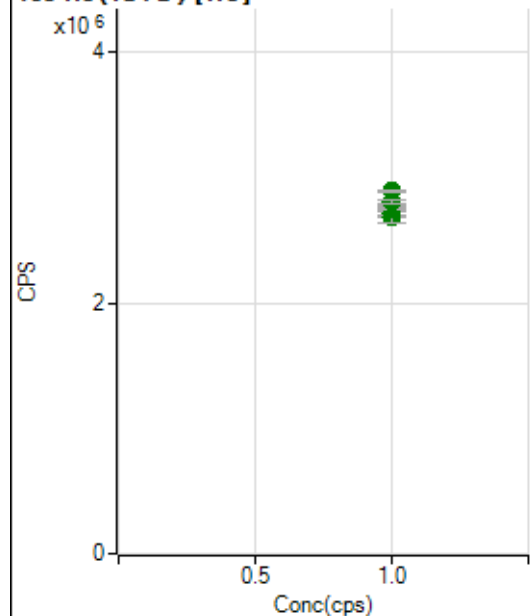
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5929517.48		A	1.5
2	☐	1.000		5981118.11		A	1.5
3	☐	1.000		5647076.69		A	11.8
4	☐	1.000		6023518.87		A	1.0
5	☐	1.000		6113391.99		A	3.8
6	☐	1.000		6284287.68		A	0.5
7	☐	1.000		6196184.77		A	3.0
8	☐	1.000		6281219.28		A	2.2

159 Tb (ISTD) [He]

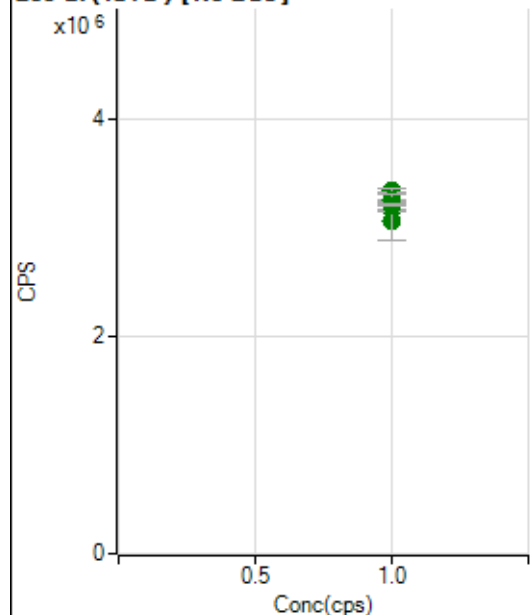
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2690216.40		A	1.5
2	☐	1.000		2695754.26		A	1.4
3	☐	1.000		2700034.79		A	3.2
4	☐	1.000		2749595.07		A	1.4
5	☐	1.000		2799424.33		A	0.6
6	☐	1.000		2757916.56		A	1.3
7	☐	1.000		2804289.68		A	0.4
8	☐	1.000		2895761.17		A	0.6

165 Ho (ISTD) [No Gas]

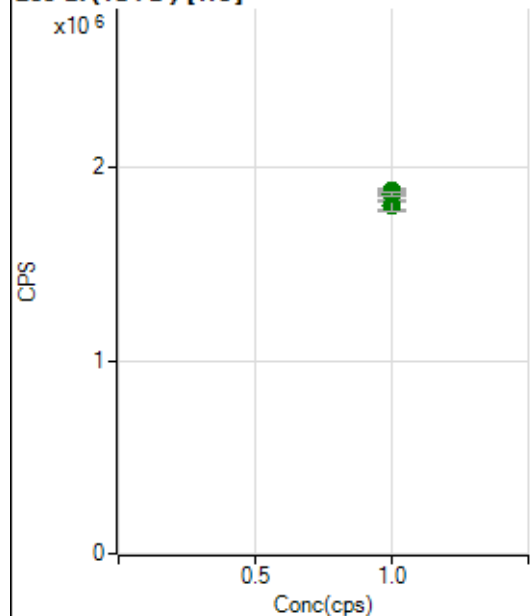
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5471321.65		A	0.6
2	☐	1.000		5669375.13		A	1.2
3	☐	1.000		5296410.10		A	10.9
4	☐	1.000		5560118.44		A	1.9
5	☐	1.000		5731415.28		A	3.8
6	☐	1.000		5816215.02		A	1.1
7	☐	1.000		5742635.85		A	2.5
8	☐	1.000		5865928.35		A	2.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2713611.64		A	1.6
2	☐	1.000		2721548.43		A	1.7
3	☐	1.000		2685054.54		A	3.7
4	☐	1.000		2762451.70		A	1.1
5	☐	1.000		2799910.31		A	1.1
6	☐	1.000		2753508.74		A	0.2
7	☐	1.000		2806136.63		A	0.7
8	☐	1.000		2894838.22		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3179162.90		A	1.5
2	☐	1.000		3219810.93		A	2.5
3	☐	1.000		3067226.67		A	11.4
4	☐	1.000		3203808.46		A	1.5
5	☐	1.000		3261312.63		A	3.7
6	☐	1.000		3345444.01		A	1.2
7	☐	1.000		3270180.06		A	2.6
8	☐	1.000		3211628.98		A	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1820616.52		A	0.2
2	☐	1.000		1800751.60		A	1.9
3	☐	1.000		1805981.93		A	3.3
4	☐	1.000		1862490.84		A	1.6
5	☐	1.000		1878246.15		A	1.1
6	☐	1.000		1871046.46		A	1.9
7	☐	1.000		1869851.66		A	0.8
8	☐	1.000		1857835.35		A	1.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8100620-MS.b
Acq. Date-Time 2020-10-06 09:16:20
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2746	27457.17			1.780	5.000
24		48533	485327.86			1.375	5.000
25		6475	64745.14			1.652	5.000
26		7277	72771.96			0.769	5.000
59		20357	203568.76			1.529	5.000
113		3138	31382.26			2.057	5.000
115		9558	95576.83			2.809	5.000
206		3228	32277.33			2.113	5.000
207		2707	27074.29			1.216	5.000
208		6656	66556.41			1.887	5.000
220		1	9.50			21.053	

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

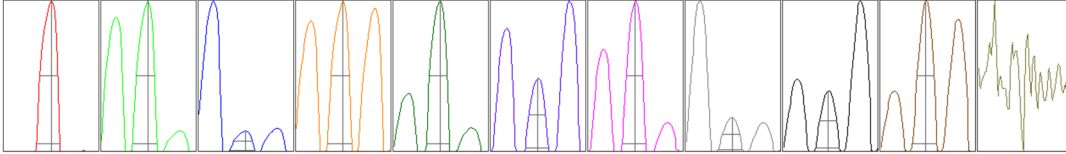
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2745	2741	2774	2799	2669
24	48244	48711	48917	49257	47535
25	6454	6494	6514	6602	6309
26	7247	7309	7301	7334	7195
59	20343	20444	20595	20572	19831
113	3135	3154	3199	3172	3031
115	9844	9677	9608	9537	9122
206	3203	3261	3302	3250	3123
207	2687	2728	2728	2735	2659
208	6626	6723	6707	6771	6451

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	1	1	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5151.33	9.05	8.90 - 9.10	
24	89059.11	24.00	23.90 - 24.10	
25	11685.39	25.00	24.90 - 25.10	
26	13439.33	26.00	25.90 - 26.10	
59	38480.87	59.00	58.90 - 59.10	
113	6316.45	113.00	112.90 - 113.10	
115	19218.43	115.00	114.90 - 115.10	
206	6181.12	206.00	205.90 - 206.10	
207	5175.90	206.95	206.90 - 207.10	
208	12941.50	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.735	0.900	
24	0.57	0.780	0.900	
25	0.59	0.778	0.900	
26	0.57	0.779	0.900	
59	0.56	0.733	0.900	
113	0.52	0.725	0.900	
115	0.51	0.751	0.900	
206	0.54	0.751	0.900	
207	0.54	0.752	0.900	
208	0.54	0.774	0.900	
220	0.32			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.0 V	Deflect	14.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4967	49665.18			3.851	
89		2939	29385.18			3.823	
205		8101	81010.20			2.272	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4630	5006	5084	5024	5087
89	2742	2990	3016	2952	2992
205	7812	8307	8179	8062	8146

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.0 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.4 mm		
EM					
Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V