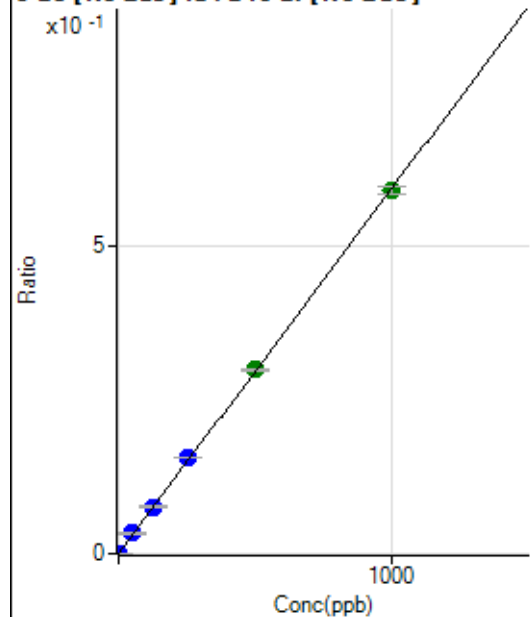


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7101522MS.b\
 Analysis File: P7101522MS.batch.bin
 DA Date-Time: 2022-10-15 19:54:08
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-10-15 13:47:43
2	005CALS.d	S02	2022-10-15 13:50:35
3	006CALS.d	S03	2022-10-15 13:53:28
4	007CALS.d	S04	2022-10-15 13:56:12
5	008CALS.d	S05	2022-10-15 13:58:58
6	009CALS.d	S06	2022-10-15 14:01:42
7	010CALS.d	S07	2022-10-15 14:04:28
8	011CALS.d	S08	2022-10-15 14:07:12

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.22	0.0000	P	15.3
2	☐	1.000	1.173	3063.66	0.0007	P	2.1
3	☐	50.000	55.439	134884.73	0.0328	P	4.7
4	☐	125.000	127.950	327456.73	0.0757	P	2.5
5	☐	250.000	262.357	646270.46	0.1552	P	0.8
6	☐	500.000	503.454	1230313.54	0.2977	A	1.0
7	☐	1000.000	994.543	2437528.59	0.5881	A	2.2
8	☐			716.69	0.0002	P	20.6

$$y = 5.9133\text{E-}004 * x + 1.1953\text{E-}005$$

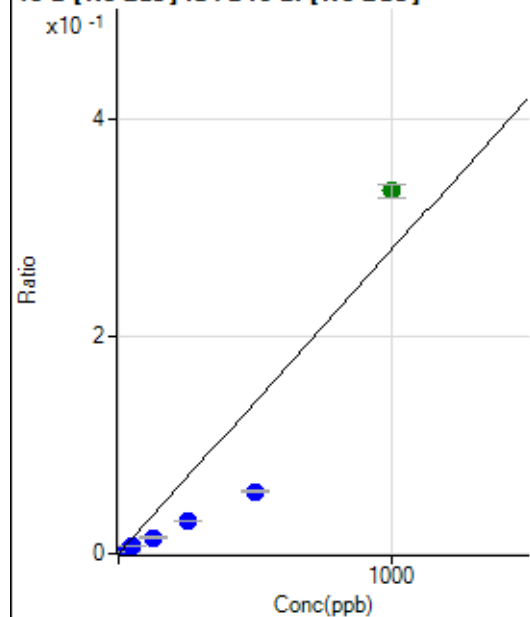
$$R = 0.9999$$

$$DL = 0.009278$$

$$BEC = 0.02021$$

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	236.12	0.0001	P	21.8
2	☐	25.000	7.584	9447.56	0.0022	P	7.3
3	☐	50.000	22.534	26197.70	0.0064	P	0.2
4	☐	125.000	52.401	63689.89	0.0147	P	4.9
5	☐	250.000	107.959	126079.86	0.0303	P	1.7
6	☐	500.000	205.151	237508.26	0.0575	P	2.2
7	☐	1000.000	1193.818	1384834.23	0.3342	A	4.1
8	☐			22027.24	0.0055	P	11.7

$$y = 2.7986\text{E-}004 * x + 5.3999\text{E-}005$$

$$R = 0.9452$$

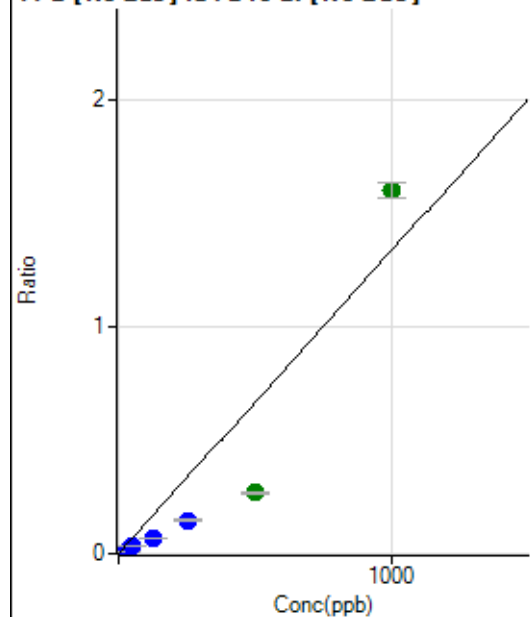
$$DL = 0.1263$$

$$BEC = 0.1929$$

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	1108.40	0.0003	P	9.5
2	☐	25.000	7.733	45910.35	0.0106	P	4.3
3	☐	50.000	22.767	126153.46	0.0306	P	1.5
4	☐	125.000	52.385	303656.58	0.0702	P	3.6
5	☐	250.000	109.583	610318.71	0.1465	P	2.6
6	☐	500.000	199.685	1102593.27	0.2668	A	2.2
7	☐	1000.000	1196.132	6617371.55	1.5968	A	4.2
8	☐			103917.24	0.0261	P	13.2

$$y = 0.0013 * x + 2.5389E-004$$

$$R = 0.9437$$

$$DL = 0.05446$$

$$BEC = 0.1902$$

Weight: <None>

Min Conc: 0

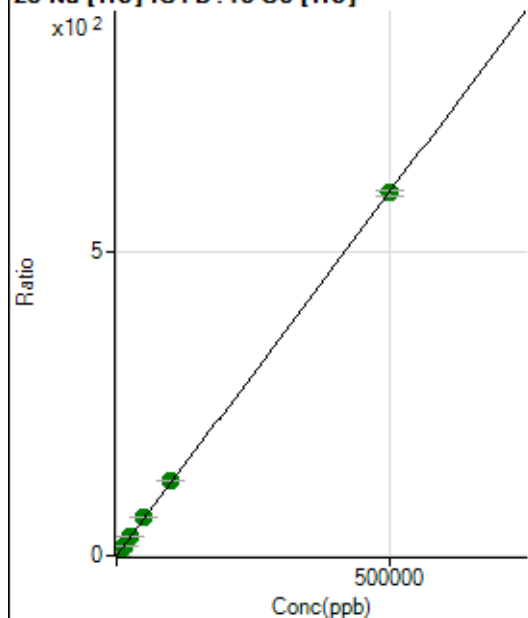
12 C [No Gas] No available calibration points



	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	33273.18	0.0416	P	1.2
2	☐	500.000	562.881	566122.59	0.7132	P	0.9
3	☐	5000.000	5273.684	4967155.49	6.3336	A	0.8
4	☐	12500.000	12879.397	12109960.46	15.4078	A	0.8
5	☐	25000.000	26287.965	24102232.25	31.4054	A	1.5
6	☐	50000.000	51956.108	46978736.23	62.0297	A	0.5
7	☐	100000.00	103668.61	98083114.23	123.7272	A	0.4
8	☐	500000.00	498993.98	471070299.42	595.3846	A	1.5

$$y = 0.0012 * x + 0.0416$$

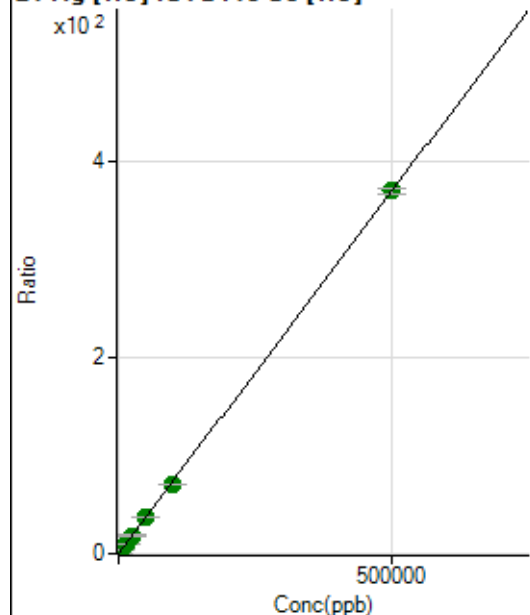
$$R = 1.0000$$

$$DL = 1.22$$

$$BEC = 34.87$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	403.72	0.0005	P	6.0
2	☐	500.000	557.610	327281.11	0.4123	P	1.4
3	☐	5000.000	5077.741	2941139.62	3.7502	A	0.2
4	☐	12500.000	12306.500	7142375.80	9.0884	A	1.3
5	☐	25000.000	25101.869	14226355.18	18.5374	A	1.7
6	☐	50000.000	49316.375	27581859.87	36.4189	A	0.3
7	☐	100000.00	95992.631	56192952.65	70.8877	A	1.3
8	☐	500000.00	500868.74	292646517.65	369.8745	A	1.4

$$y = 7.3846E-004 * x + 5.0487E-004$$

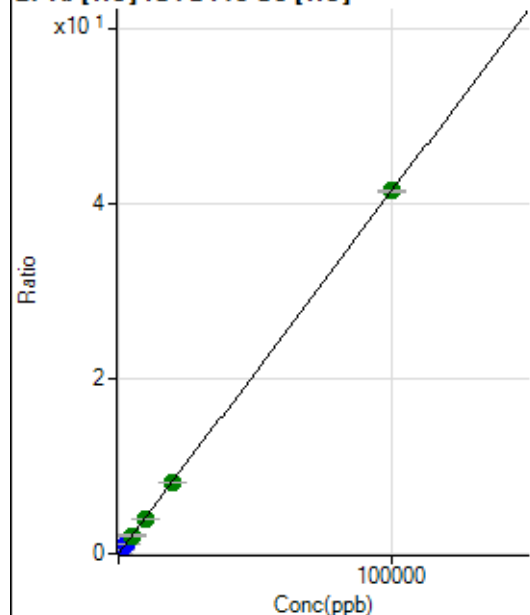
$$R = 1.0000$$

$$DL = 0.1233$$

$$BEC = 0.6837$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	187.04	0.0002	P	7.9
2	☐	20.000	21.814	7372.24	0.0093	P	5.0
3	☐	1000.000	1052.418	342690.98	0.4370	P	0.2
4	☐	2500.000	2488.403	811755.74	1.0329	P	0.6
5	☐	5000.000	5019.373	1598725.73	2.0832	A	2.1
6	☐	10000.000	9719.518	3054893.44	4.0336	A	1.0
7	☐	20000.000	19746.930	6496295.05	8.1948	A	0.9
8	☐	100000.00	100077.45	32859015.32	41.5302	A	0.9

$$y = 4.1498E-004 * x + 2.3393E-004$$

$$R = 1.0000$$

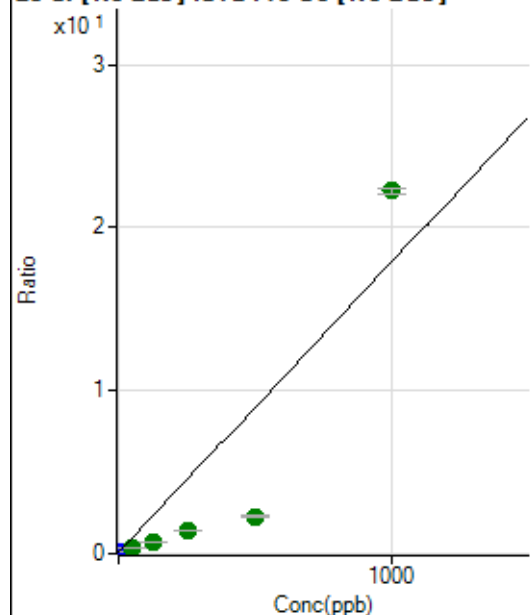
$$DL = 0.1337$$

$$BEC = 0.5637$$

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	728945.53	0.0789	P	0.8
2	☐	10.000	0.465	808030.71	0.0872	P	0.6
3	☐	50.000	16.714	3223380.04	0.3766	A	5.8
4	☐	125.000	36.653	6652507.13	0.7318	A	3.0
5	☐	250.000	74.928	12731767.21	1.4135	A	2.7
6	☐	500.000	124.564	20071739.69	2.2976	A	0.7
7	☐	1000.000	1244.289	206860906.01	22.2413	A	1.5
8	☐			1996485.90	0.2208	A	7.3

$$y = 0.0178 * x + 0.0789$$

$$R = 0.9189$$

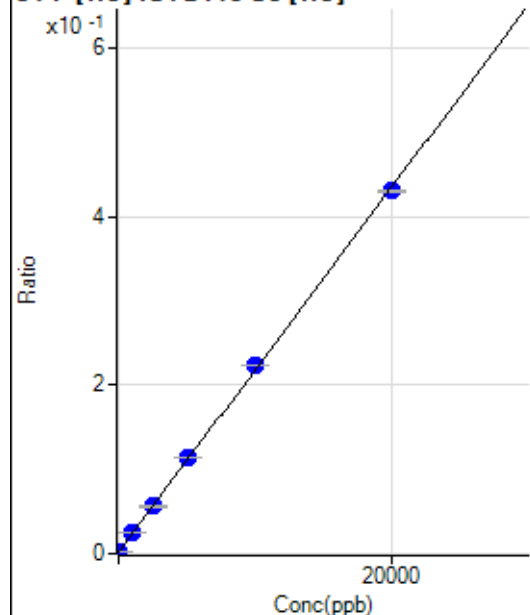
$$DL = 0.108$$

$$BEC = 4.432$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.492	1250.08	0.0016	P	4.4
2	☐	0.000	11.492	1636.25	0.0021	P	5.9
3	☐	1000.000	1084.520	19840.98	0.0253	P	2.6
4	☐	2500.000	2522.689	44356.66	0.0564	P	2.3
5	☐	5000.000	5199.053	87804.67	0.1144	P	1.1
6	☐	10000.000	10263.945	169722.39	0.2241	P	0.6
7	☐	20000.000	19811.202	341558.47	0.4309	P	0.4
8	☐			1583.46	0.0020	P	10.4

$$y = 2.1657E-005 * x + 0.0018$$

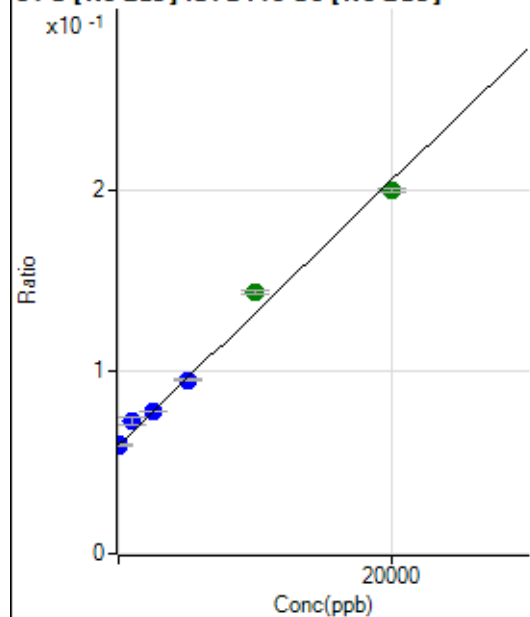
$$R = 0.9998$$

$$DL = 13.13$$

$$BEC = 83.68$$

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	-7.215	550891.73	0.0597	P	0.7
2	☐	0.000	7.215	553690.57	0.0598	P	1.0
3	☐	1000.000	1756.123	620311.15	0.0725	P	5.9
4	☐	2500.000	2525.737	709720.37	0.0781	P	1.1
5	☐	5000.000	4923.067	860186.30	0.0955	P	1.6
6	☐	10000.000	11569.016	1256808.90	0.1439	A	1.7
7	☐	20000.000	19193.702	1853803.32	0.1993	A	1.1
8	☐			472057.69	0.0522	P	2.2

$$y = 7.2735E-006 * x + 0.0597$$

R = 0.9948

DL = 220.8

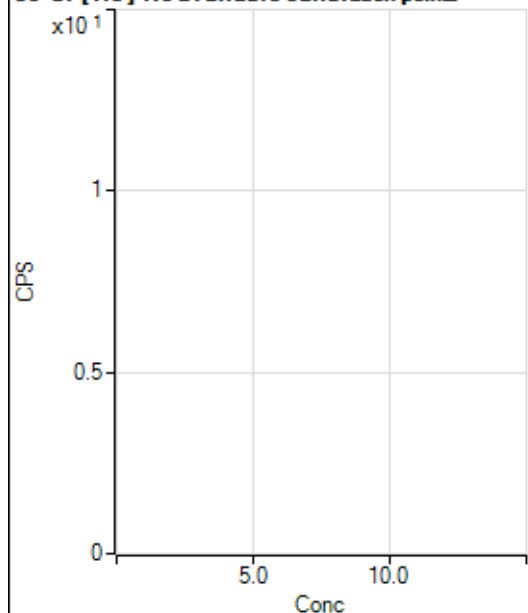
BEC = 8210

Weight: <None>

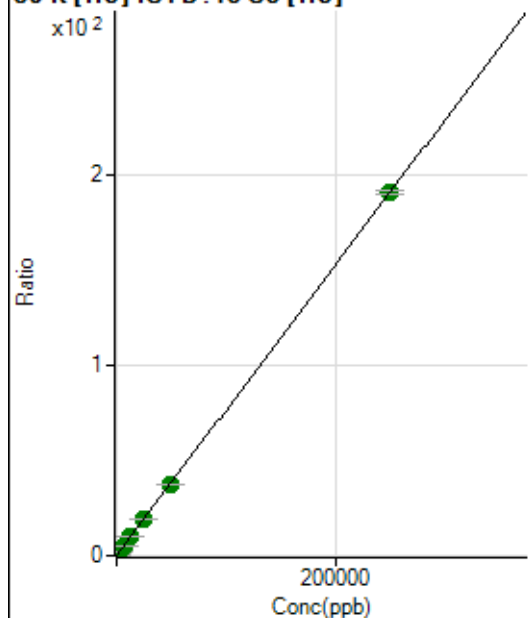
Min Conc: 0

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	109220.73	0.1366	P	1.8
2	☐	500.000	578.009	457876.14	0.5768	P	0.5
3	☐	2500.000	2521.781	1613371.10	2.0572	A	1.1
4	☐	6250.000	6137.137	3780807.98	4.8108	A	0.4
5	☐	12500.000	12497.960	7410382.80	9.6553	A	0.4
6	☐	25000.000	24813.182	14415933.83	19.0348	A	0.3
7	☐	50000.000	49348.029	29903163.17	37.7211	A	0.2
8	☐	250000.00	250151.62	150849849.20	190.6574	A	0.9

$$y = 7.6162\text{E-}004 * x + 0.1366$$

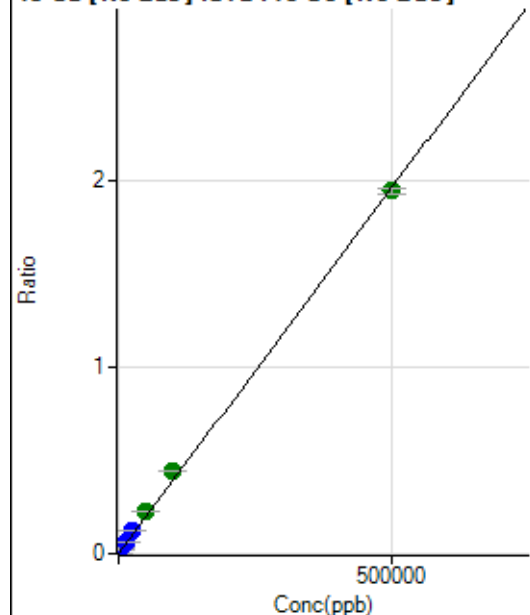
$$R = 1.0000$$

$$DL = 9.81$$

$$BEC = 179.3$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	250.01	0.0000	P	34.8
2	☐	500.000	570.499	20984.51	0.0023	P	4.1
3	☐	5000.000	6725.114	225930.78	0.0264	P	6.9
4	☐	12500.000	15398.725	549433.03	0.0604	P	0.4
5	☐	25000.000	30603.345	1081657.77	0.1201	P	0.4
6	☐	50000.000	58225.329	1996045.51	0.2285	A	0.7
7	☐	100000.00	112675.96	4112029.34	0.4421	A	1.2
8	☐	500000.00	496272.31	17598598.83	1.9472	A	1.8

$$y = 3.9236E-006 * x + 2.7080E-005$$

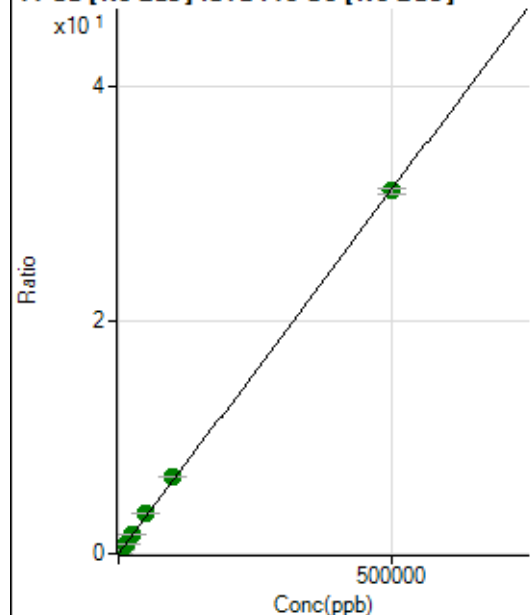
R = 0.9996

DL = 7.209

BEC = 6.902

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12975.64	0.0014	P	3.9
2	☐	500.000	568.367	341597.15	0.0369	P	0.6
3	☐	5000.000	5856.150	3136815.24	0.3668	A	7.6
4	☐	12500.000	13376.226	7600230.03	0.8361	A	0.9
5	☐	25000.000	26928.016	15145845.30	1.6818	A	0.5
6	☐	50000.000	54380.178	29657773.23	3.3948	A	0.3
7	☐	100000.00	105354.56	61158821.50	6.5757	A	1.2
8	☐	500000.00	498364.13	281078486.84	31.1002	A	1.8

$$y = 6.2402E-005 * x + 0.0014$$

R = 0.9999

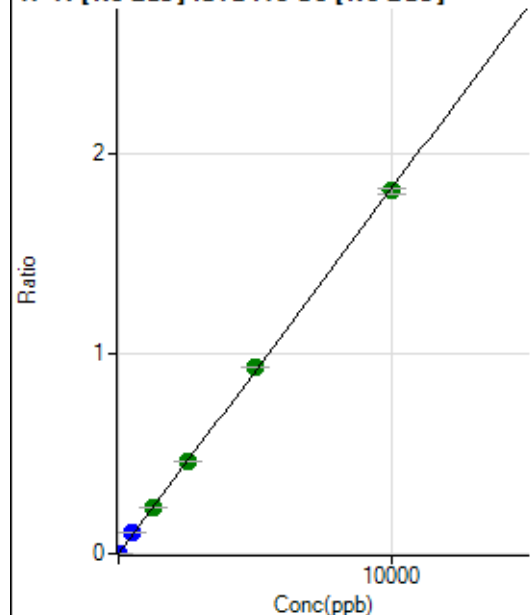
DL = 2.613

BEC = 22.52

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	222.23	0.0000	P	21.5
2	☐	5.000	5.596	9686.68	0.0010	P	3.0
3	☐	500.000	571.042	892165.03	0.1043	P	6.1
4	☐	1250.000	1254.246	2081539.74	0.2290	A	1.8
5	☐	2500.000	2519.589	4142600.61	0.4600	A	0.4
6	☐	5000.000	5108.157	8146537.51	0.9325	A	0.1
7	☐	10000.000	9936.941	16871882.67	1.8140	A	1.6
8	☐			2711.43	0.0003	P	11.8

$$y = 1.8255E-004 * x + 2.4048E-005$$

$$R = 0.9999$$

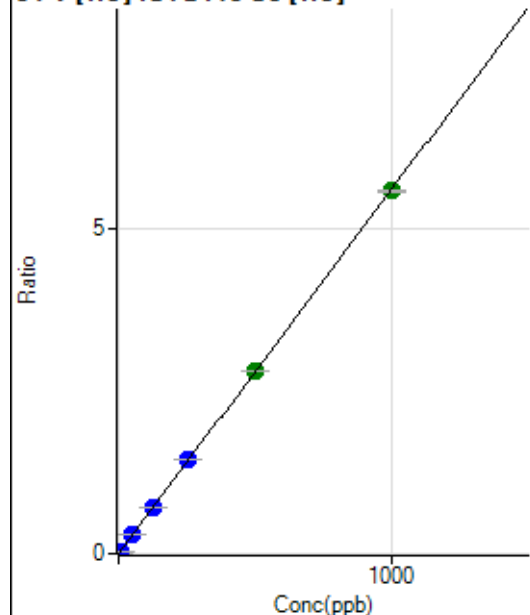
$$DL = 0.08505$$

$$BEC = 0.1317$$

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	23.33	0.0000	P	74.2
2	☐	5.000	5.513	24605.72	0.0310	P	0.3
3	☐	50.000	52.426	230987.93	0.2945	P	0.1
4	☐	125.000	126.977	560583.01	0.7133	P	1.0
5	☐	250.000	258.722	1115438.15	1.4534	P	1.2
6	☐	500.000	502.435	2137526.53	2.8225	A	0.6
7	☐	1000.000	996.231	4436435.04	5.5964	A	0.8
8	☐			1989.04	0.0025	P	3.7

$$y = 0.0056 * x + 2.9167E-005$$

$$R = 1.0000$$

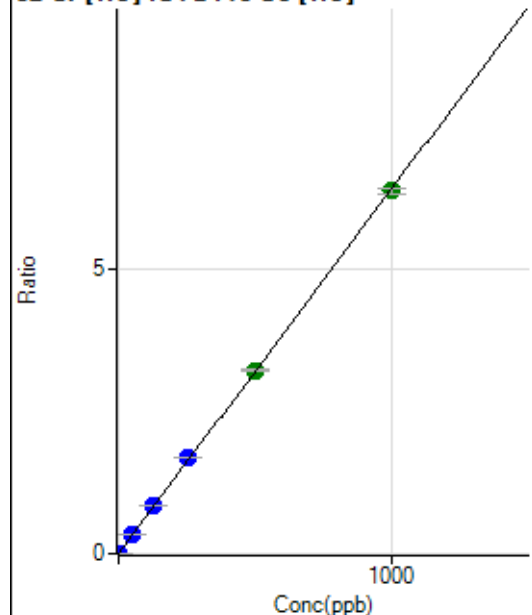
$$DL = 0.01156$$

$$BEC = 0.005192$$

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	1884.58	0.0024	P	4.5
2	☐	2.000	2.221	13169.18	0.0166	P	1.0
3	☐	50.000	53.185	269183.76	0.3432	P	0.3
4	☐	125.000	129.491	654124.68	0.8323	P	0.4
5	☐	250.000	262.103	1291125.03	1.6822	P	0.0
6	☐	500.000	502.728	2441936.26	3.2245	A	0.7
7	☐	1000.000	994.889	5056654.96	6.3788	A	1.5
8	☐			36823.79	0.0465	P	1.1

$$y = 0.0064 * x + 0.0024$$

$$R = 0.9999$$

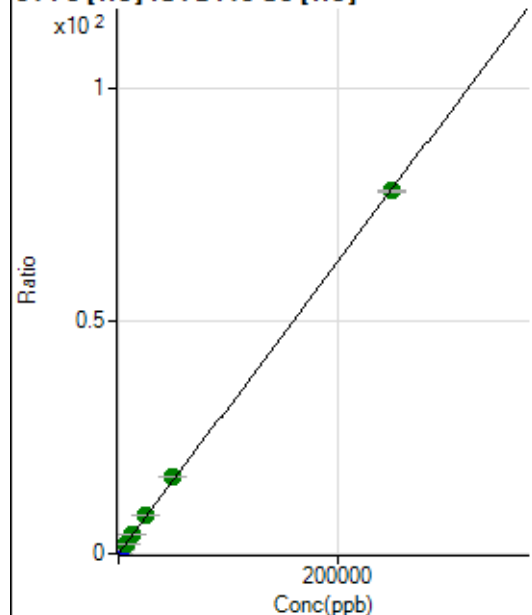
$$DL = 0.0501$$

$$BEC = 0.3677$$

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	2189.08	0.0027	P	7.8
2	☐	50.000	62.345	17638.49	0.0222	P	0.5
3	☐	2500.000	2942.605	723319.00	0.9223	P	0.7
4	☐	6250.000	6686.855	1644417.38	2.0924	A	0.4
5	☐	12500.000	13535.010	3248186.04	4.2324	A	1.4
6	☐	25000.000	26906.809	6369795.09	8.4111	A	1.1
7	☐	50000.000	52740.224	13067382.75	16.4840	A	0.5
8	☐	250000.00	249194.17	61616323.32	77.8759	A	0.4

$$y = 3.1250E-004 * x + 0.0027$$

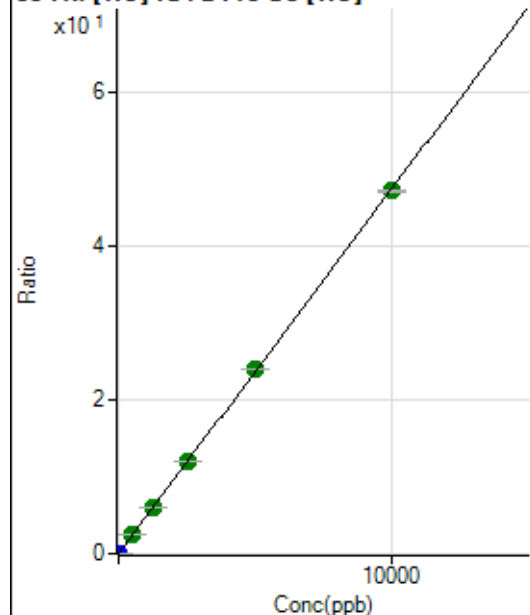
$$R = 0.9999$$

$$DL = 2.046$$

$$BEC = 8.759$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	293.34	0.0004	P	9.6
2	☐	1.000	1.220	4868.61	0.0061	P	2.2
3	☐	500.000	519.936	1928337.72	2.4588	A	0.6
4	☐	1250.000	1256.230	4668471.91	5.9403	A	0.6
5	☐	2500.000	2533.278	9193410.07	11.9787	A	0.8
6	☐	5000.000	5067.894	18148216.39	23.9633	A	0.3
7	☐	10000.000	9955.958	37318761.94	47.0760	A	0.9
8	☐			63194.17	0.0799	P	0.6

$$y = 0.0047 * x + 3.6691E-004$$

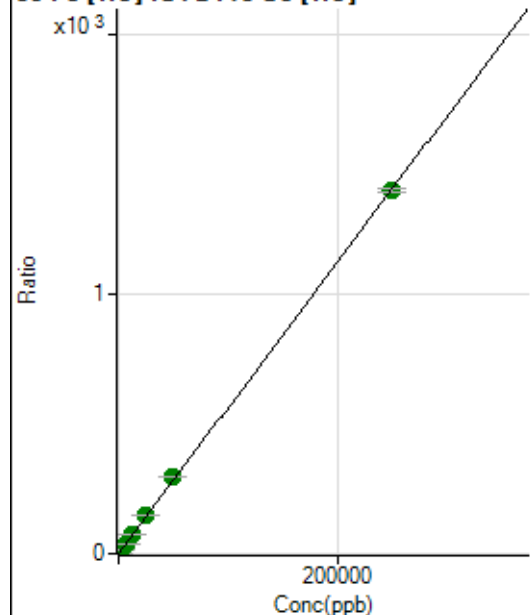
$$R = 1.0000$$

$$DL = 0.02239$$

$$BEC = 0.0776$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15003.98	0.0188	P	2.7
2	☐	50.000	59.349	278675.22	0.3511	P	1.0
3	☐	2500.000	2746.362	12074358.37	15.3959	A	0.6
4	☐	6250.000	6655.467	29300987.69	37.2833	A	0.5
5	☐	12500.000	13398.071	57587184.16	75.0358	A	1.2
6	☐	25000.000	26831.595	113792562.73	150.2513	A	0.2
7	☐	50000.000	52263.489	231992510.74	292.6467	A	0.1
8	☐	250000.00	249306.63	1104452691.3	1,395.909	A	1.0

$$y = 0.0056 * x + 0.0188$$

$$R = 0.9999$$

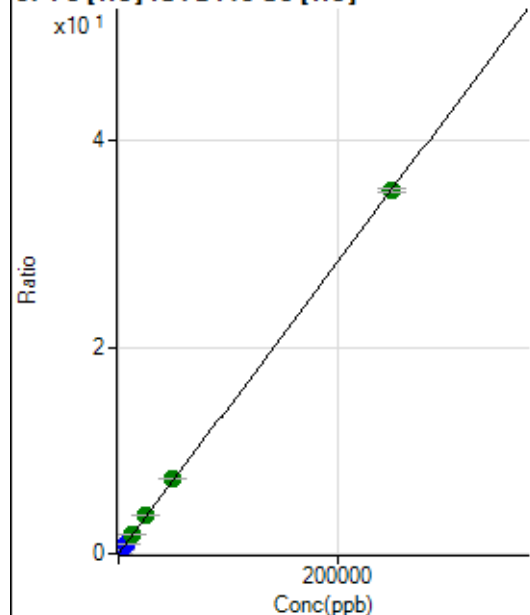
$$DL = 0.2753$$

$$BEC = 3.351$$

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	851.89	0.0011	P	3.5
2	☐	50.000	60.310	7589.06	0.0096	P	3.6
3	☐	2500.000	2865.229	317344.57	0.4046	P	0.3
4	☐	6250.000	6939.692	769066.77	0.9786	P	0.3
5	☐	12500.000	13396.518	1449024.57	1.8880	A	0.7
6	☐	25000.000	26695.435	2848468.76	3.7612	A	0.5
7	☐	50000.000	51904.896	5796448.39	7.3121	A	0.8
8	☐	250000.00	249383.75	27793386.96	35.1278	A	1.0

$$y = 1.4085E-004 * x + 0.0011$$

R = 1.0000

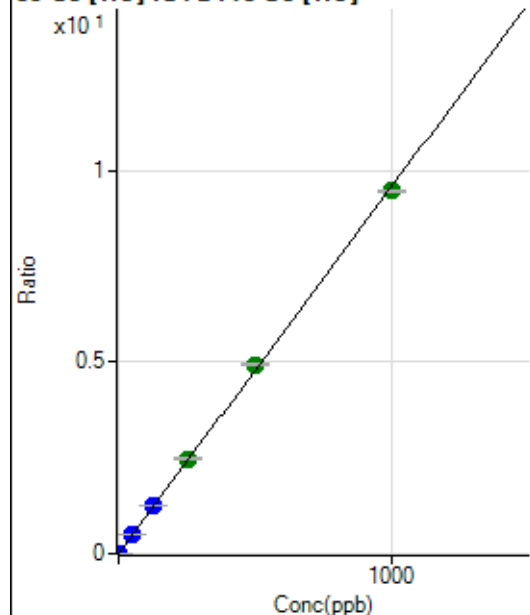
DL = 0.8025

BEC = 7.561

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	150.00	0.0002	P	9.0
2	☐	1.000	1.138	8797.09	0.0111	P	3.1
3	☐	50.000	54.315	408061.93	0.5203	P	0.7
4	☐	125.000	130.865	985041.49	1.2534	P	0.2
5	☐	250.000	258.832	1902402.00	2.4788	A	1.4
6	☐	500.000	515.839	3741244.14	4.9399	A	0.4
7	☐	1000.000	988.924	7507336.90	9.4702	A	0.5
8	☐			20182.55	0.0255	P	0.6

$$y = 0.0096 * x + 1.8748E-004$$

R = 0.9998

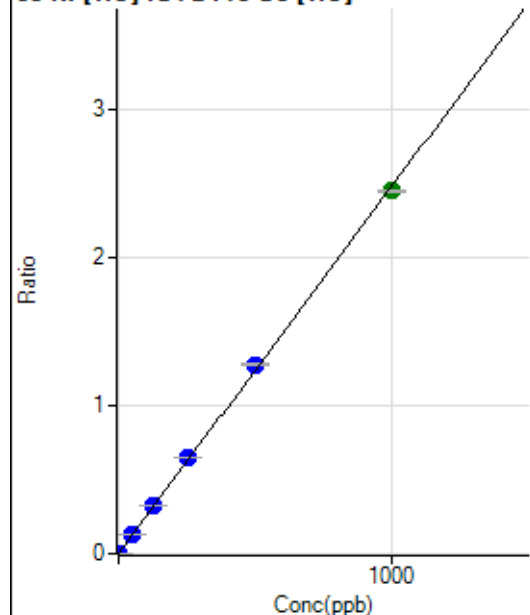
DL = 0.005294

BEC = 0.01958

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	196.67	0.0002	P	21.1
2	☐	1.000	1.139	2438.00	0.0031	P	4.9
3	☐	50.000	53.930	105073.64	0.1340	P	0.2
4	☐	125.000	130.351	254247.45	0.3235	P	1.2
5	☐	250.000	262.621	499995.25	0.6515	P	1.0
6	☐	500.000	514.673	966732.17	1.2765	P	0.7
7	☐	1000.000	988.643	1943696.57	2.4519	A	0.2
8	☐			11791.38	0.0149	P	1.2

$$y = 0.0025 * x + 2.4561E-004$$

$$R = 0.9997$$

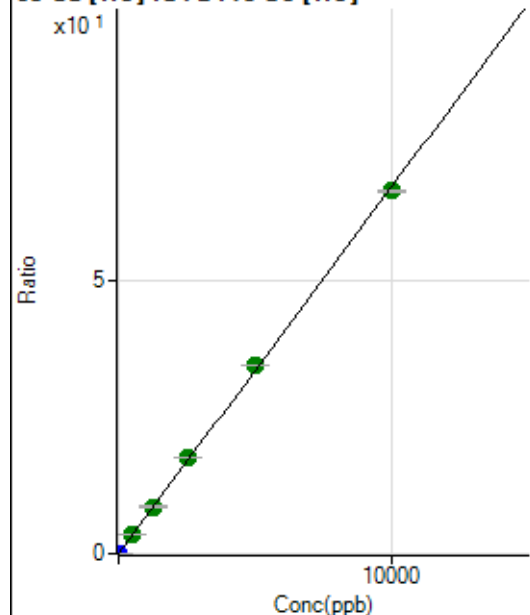
$$DL = 0.06266$$

$$BEC = 0.09905$$

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	1405.64	0.0018	P	3.6
2	☐	2.000	2.303	13656.31	0.0172	P	1.7
3	☐	500.000	539.801	2840367.53	3.6217	A	0.4
4	☐	1250.000	1283.623	6766825.18	8.6099	A	0.3
5	☐	2500.000	2613.155	13451107.30	17.5259	A	0.2
6	☐	5000.000	5142.004	26116403.78	34.4846	A	0.2
7	☐	10000.000	9894.516	52602306.99	66.3555	A	0.3
8	☐			30112.57	0.0381	P	1.5

$$y = 0.0067 * x + 0.0018$$

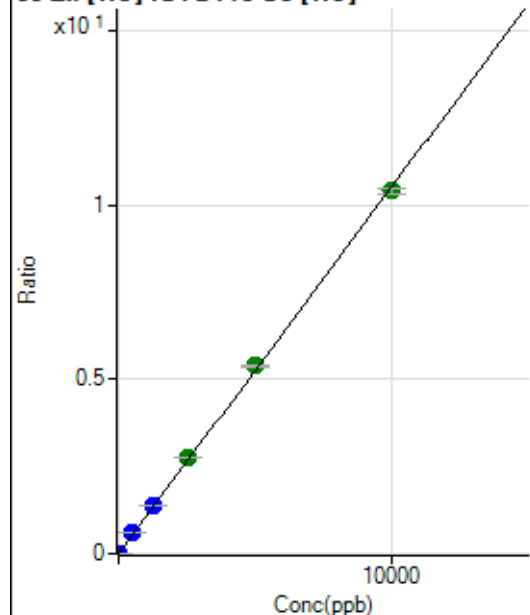
$$R = 0.9998$$

$$DL = 0.0281$$

$$BEC = 0.2621$$

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	1685.67	0.0021	P	3.3
2	☐	2.000	2.492	3751.62	0.0047	P	3.9
3	☐	500.000	553.634	457978.47	0.5840	P	0.3
4	☐	1250.000	1325.699	1096634.70	1.3954	P	0.6
5	☐	2500.000	2630.291	2123364.72	2.7665	A	0.6
6	☐	5000.000	5114.560	4072353.06	5.3774	A	1.4
7	☐	10000.000	9898.003	8247958.77	10.4047	A	1.2
8	☐			14672.86	0.0185	P	2.8

$$y = 0.0011 * x + 0.0021$$

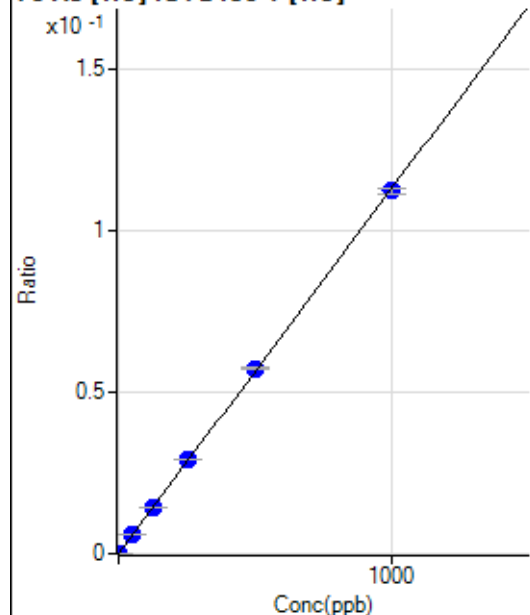
$$R = 0.9998$$

$$DL = 0.2$$

$$BEC = 2.005$$

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	3.70	0.0000	P	49.9
2	☐	1.000	1.183	659.28	0.0001	P	7.2
3	☐	50.000	52.200	28686.90	0.0059	P	0.7
4	☐	125.000	127.125	70313.98	0.0144	P	0.9
5	☐	250.000	256.887	139702.67	0.0290	P	0.8
6	☐	500.000	507.464	276251.81	0.0573	P	1.1
7	☐	1000.000	994.170	562898.77	0.1123	P	1.4
8	☐			483.96	0.0001	P	10.5

$$y = 1.1294E-004 * x + 7.5155E-007$$

$$R = 0.9999$$

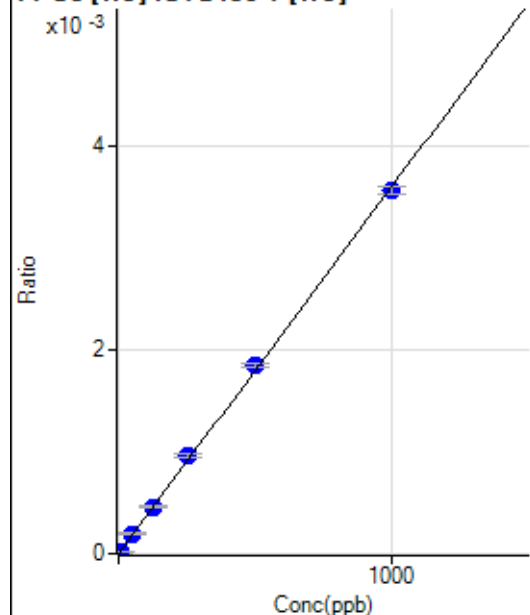
$$DL = 0.009959$$

$$BEC = 0.006654$$

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	1.11	0.0000	P	173.
2	☐	5.000	6.812	121.11	0.0000	P	9.8
3	☐	50.000	53.758	940.04	0.0002	P	4.8
4	☐	125.000	126.704	2227.96	0.0005	P	4.6
5	☐	250.000	267.260	4621.88	0.0010	P	2.6
6	☐	500.000	511.695	8856.05	0.0018	P	1.9
7	☐	1000.000	989.427	17809.71	0.0036	P	2.1
8	☐			4.45	0.0000	P	86.6

$$y = 3.5902\text{E-}006 * x + 2.2521\text{E-}007$$

$$R = 0.9997$$

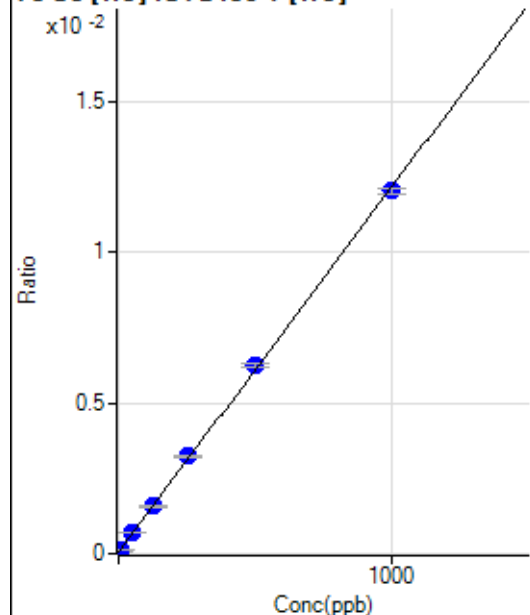
$$DL = 0.326$$

$$BEC = 0.06273$$

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	251.24	0.0001	P	19.2
2	☐	5.000	5.933	602.48	0.0001	P	4.5
3	☐	50.000	53.242	3380.03	0.0007	P	2.8
4	☐	125.000	125.025	7651.39	0.0016	P	1.9
5	☐	250.000	262.708	15536.56	0.0032	P	2.4
6	☐	500.000	513.133	30146.00	0.0063	P	1.7
7	☐	1000.000	990.087	60261.04	0.0120	P	1.6
8	☐			279.64	0.0001	P	8.4

$$y = 1.2089\text{E-}005 * x + 5.1034\text{E-}005$$

$$R = 0.9998$$

$$DL = 2.429$$

$$BEC = 4.221$$

Weight: <None>

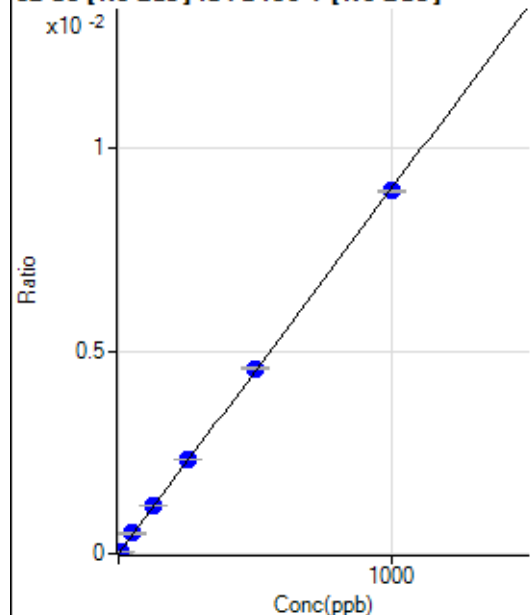
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21285.25		P	0.8
2	☐			21649.87		P	3.0
3	☐			20962.62		P	1.6
4	☐			21082.26		P	3.1
5	☐			21287.97		P	1.4
6	☐			21271.47		P	2.5
7	☐			21933.50		P	0.4
8	☐			23221.61		P	3.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.08		P	45.1
2	☐			113.45		P	48.6
3	☐			73.41		P	41.7
4	☐			96.76		P	43.1
5	☐			83.42		P	6.9
6	☐			110.11		P	39.6
7	☐			100.10		P	36.1
8	☐			90.09		P	48.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.77	0.0000	P	118.
2	☐	5.000	5.674	1103.24	0.0001	P	2.8
3	☐	50.000	56.273	9798.78	0.0005	P	7.7
4	☐	125.000	129.324	24098.39	0.0012	P	0.4
5	☐	250.000	258.890	48086.00	0.0023	P	0.4
6	☐	500.000	506.452	92853.24	0.0046	P	1.4
7	☐	1000.000	993.694	187837.51	0.0089	P	0.6
8	☐			187.25	0.0000	P	37.6

$$y = 8.9983E-006 * x + 2.0259E-006$$

R = 0.9999

DL = 0.7973

BEC = 0.2251

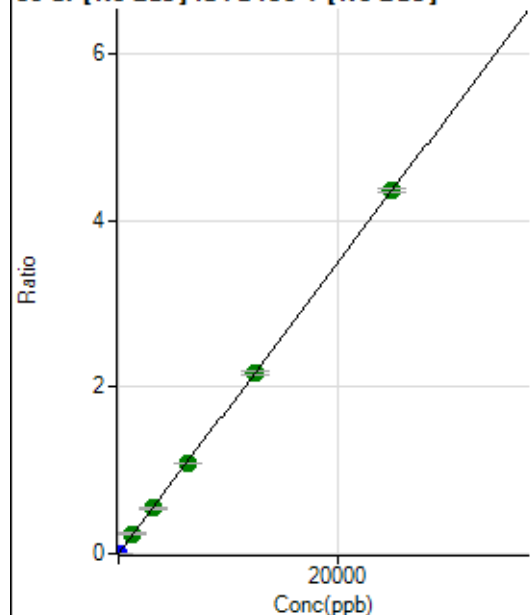
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			438.90		P	7.9
2	☐			410.01		P	10.7
3	☐			464.46		P	7.0
4	☐			440.01		P	6.5
5	☐			465.57		P	14.1
6	☐			457.79		P	6.2
7	☐			505.57		P	6.6
8	☐			477.79		P	9.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	719.48	0.0000	P	12.4
2	☐	1.000	1.029	4448.01	0.0002	P	4.3
3	☐	1250.000	1386.064	4657685.61	0.2416	A	7.0
4	☐	3125.000	3123.353	11252174.73	0.5443	A	1.9
5	☐	6250.000	6252.247	22472232.79	1.0896	A	0.8
6	☐	12500.000	12448.843	44183703.07	2.1694	A	1.6
7	☐	25000.000	25018.420	91567920.79	4.3599	A	1.1
8	☐			28881.67	0.0015	P	2.7

$$y = 1.7427E-004 * x + 3.4715E-005$$

$$R = 1.0000$$

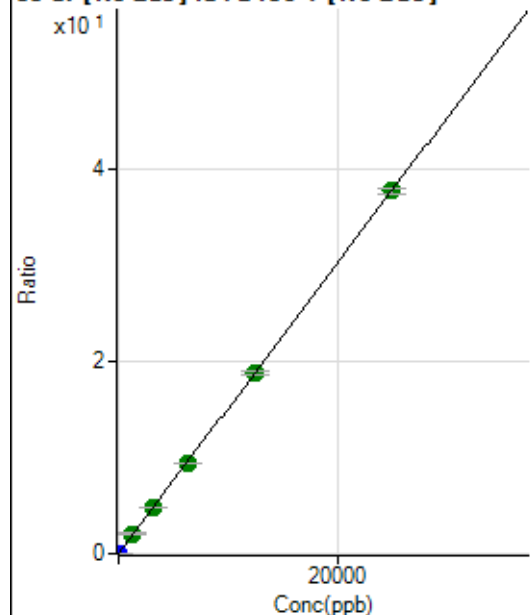
$$DL = 0.07435$$

$$BEC = 0.1992$$

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	302.79	0.0000	P	2.6
2	☐	1.000	1.085	34363.03	0.0017	P	1.4
3	☐	1250.000	1363.868	39735606.10	2.0611	A	7.1
4	☐	3125.000	3139.041	98070254.97	4.7437	A	0.3
5	☐	6250.000	6273.259	195522529.37	9.4801	A	0.6
6	☐	12500.000	12443.258	382965816.90	18.8042	A	1.7
7	☐	25000.000	25015.108	793943523.30	37.8026	A	1.3
8	☐			246545.45	0.0125	P	3.6

$$y = 0.0015 * x + 1.4603E-005$$

$$R = 1.0000$$

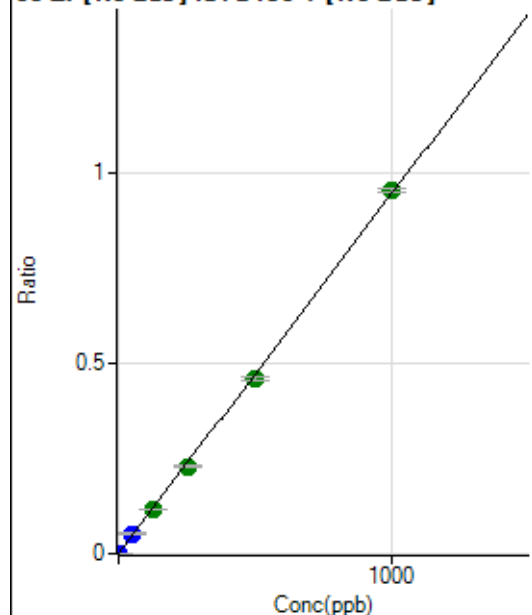
$$DL = 0.0007641$$

$$BEC = 0.009664$$

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	863.94	0.0000	P	3.0
2	☐	1.000	1.035	21224.19	0.0010	P	2.5
3	☐	50.000	55.038	1005374.98	0.0521	P	7.1
4	☐	125.000	123.199	2411984.43	0.1167	A	0.3
5	☐	250.000	242.102	4727663.73	0.2292	A	1.1
6	☐	500.000	486.694	9384494.22	0.4608	A	1.4
7	☐	1000.000	1008.601	20055621.98	0.9549	A	1.2
8	☐			9433.82	0.0005	P	2.3

$$y = 9.4671\text{E-}004 * x + 4.1653\text{E-}005$$

$$R = 0.9998$$

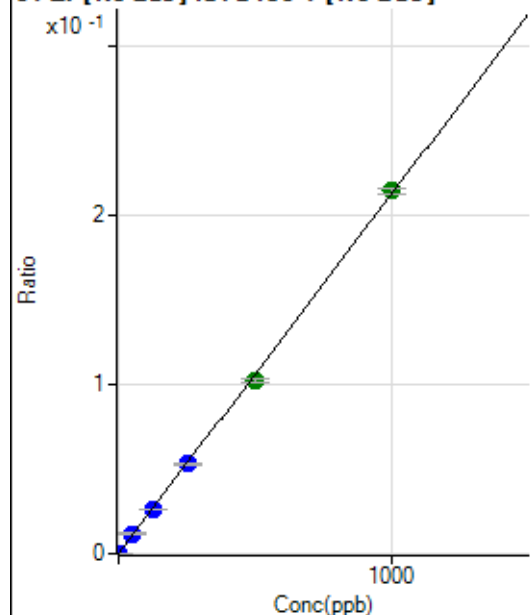
$$DL = 0.003951$$

$$BEC = 0.044$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	169.45	0.0000	P	4.8
2	☐	1.000	0.951	4372.99	0.0002	P	4.3
3	☐	50.000	54.632	224200.71	0.0116	P	6.0
4	☐	125.000	125.020	549613.10	0.0266	P	0.9
5	☐	250.000	248.798	1091056.38	0.0529	P	0.5
6	☐	500.000	482.414	2088813.24	0.1026	A	1.8
7	☐	1000.000	1008.860	4505049.97	0.2145	A	1.3
8	☐			2055.76	0.0001	P	6.4

$$y = 2.1259\text{E-}004 * x + 8.1686\text{E-}006$$

$$R = 0.9997$$

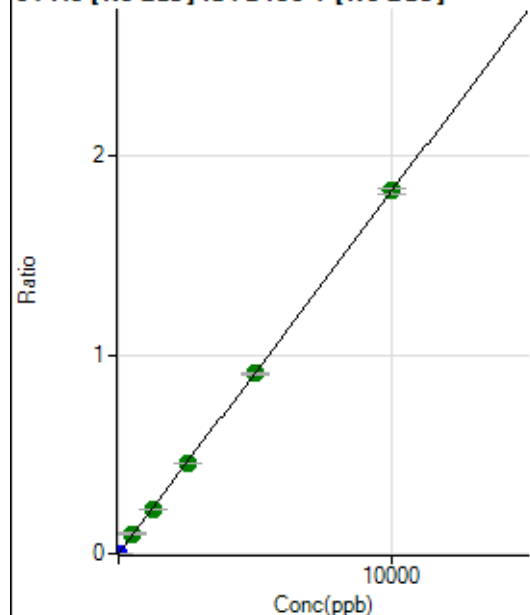
$$DL = 0.00549$$

$$BEC = 0.03842$$

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	250.01	0.0000	P	7.7
2	☐	5.000	6.427	24601.75	0.0012	P	1.4
3	☐	500.000	545.289	1917622.77	0.0994	A	6.6
4	☐	1250.000	1232.280	4645106.48	0.2247	A	1.8
5	☐	2500.000	2485.406	9346068.52	0.4532	A	0.8
6	☐	5000.000	4977.254	18483253.19	0.9075	A	0.7
7	☐	10000.000	10014.971	38352711.27	1.8261	A	1.7
8	☐			12255.45	0.0006	P	3.1

$$y = 1.8233E-004 * x + 1.2049E-005$$

$$R = 1.0000$$

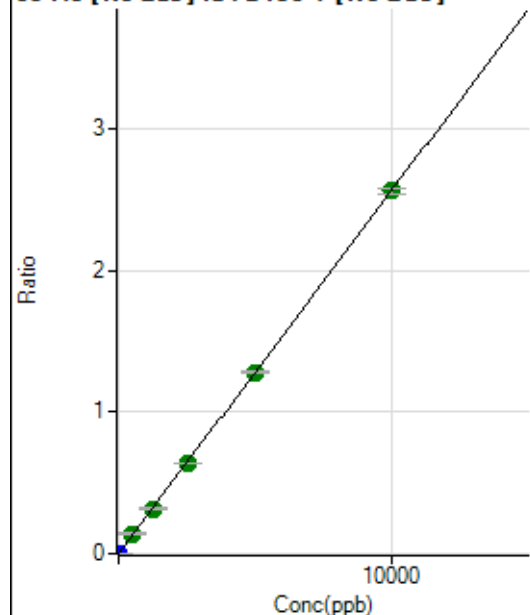
$$DL = 0.01534$$

$$BEC = 0.06608$$

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	50.00	0.0000	P	49.8
2	☐	5.000	5.538	29572.27	0.0014	P	1.7
3	☐	500.000	548.873	2714689.43	0.1408	A	7.1
4	☐	1250.000	1240.922	6580597.15	0.3183	A	2.0
5	☐	2500.000	2511.522	13288067.83	0.6443	A	0.4
6	☐	5000.000	4999.668	26120864.82	1.2826	A	1.3
7	☐	10000.000	9995.976	53859060.93	2.5643	A	1.3
8	☐			15102.57	0.0008	P	1.3

$$y = 2.5653E-004 * x + 2.4066E-006$$

$$R = 1.0000$$

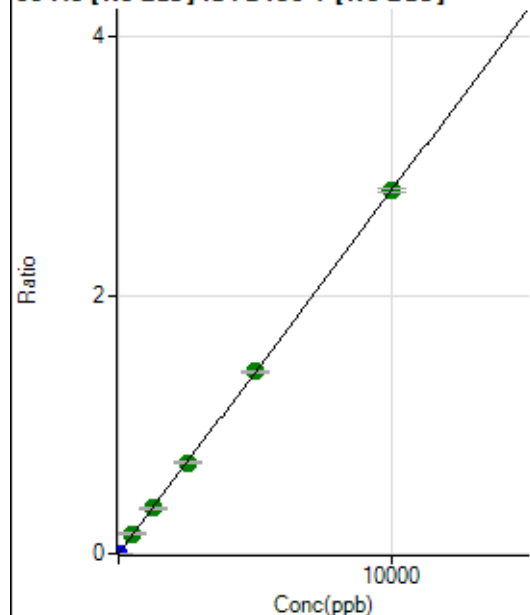
$$DL = 0.01402$$

$$BEC = 0.009381$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.23	0.0000	P	26.4
2	☐	5.000	5.620	32982.33	0.0016	P	0.8
3	☐	500.000	552.255	2991499.05	0.1552	A	7.3
4	☐	1250.000	1250.362	7261878.72	0.3513	A	2.7
5	☐	2500.000	2509.404	14541666.30	0.7051	A	1.4
6	☐	5000.000	5007.159	28653635.36	1.4069	A	0.4
7	☐	10000.000	9991.411	58961658.96	2.8073	A	1.0
8	☐			25450.49	0.0013	P	1.6

$$y = 2.8097E-004 * x + 8.2893E-006$$

$$R = 1.0000$$

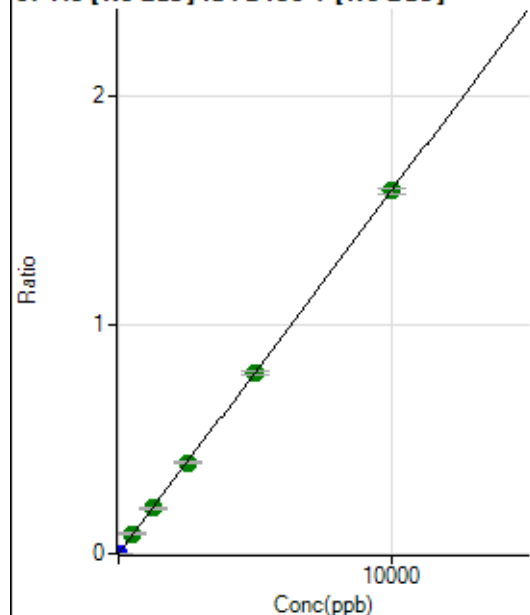
$$DL = 0.02336$$

$$BEC = 0.0295$$

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	38.89	0.0000	P	31.8
2	☐	5.000	5.606	18534.40	0.0009	P	0.7
3	☐	500.000	550.702	1685010.96	0.0874	A	7.9
4	☐	1250.000	1245.482	4087383.82	0.1977	A	1.4
5	☐	2500.000	2508.418	8213581.17	0.3982	A	1.0
6	☐	5000.000	4996.284	16154352.10	0.7932	A	1.9
7	☐	10000.000	9997.783	33339014.29	1.5873	A	1.4
8	☐			9194.81	0.0005	P	7.5

$$y = 1.5876E-004 * x + 1.8709E-006$$

$$R = 1.0000$$

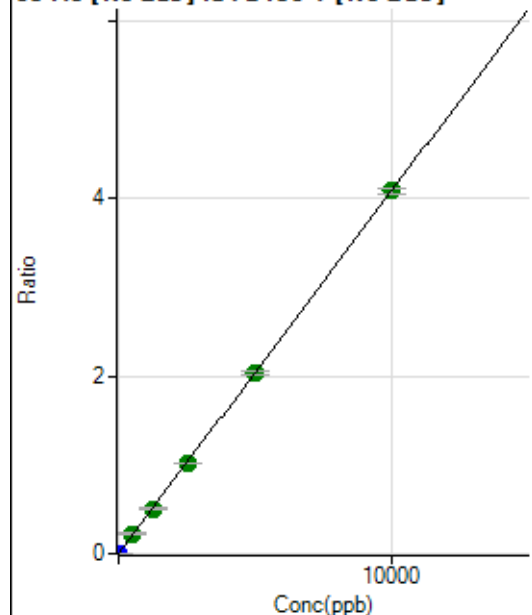
$$DL = 0.01124$$

$$BEC = 0.01178$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	155.56	0.0000	P	21.3
2	☐	5.000	5.584	47500.19	0.0023	P	1.2
3	☐	500.000	551.071	4333010.60	0.2249	A	8.0
4	☐	1250.000	1243.088	10484988.60	0.5072	A	1.8
5	☐	2500.000	2496.542	21008605.16	1.0186	A	0.5
6	☐	5000.000	4994.665	41502425.23	2.0379	A	1.6
7	☐	10000.000	10001.842	85711233.17	4.0809	A	1.8
8	☐			22359.34	0.0011	P	4.3

$$y = 4.0801\text{E-}004 * x + 7.5111\text{E-}006$$

$$R = 1.0000$$

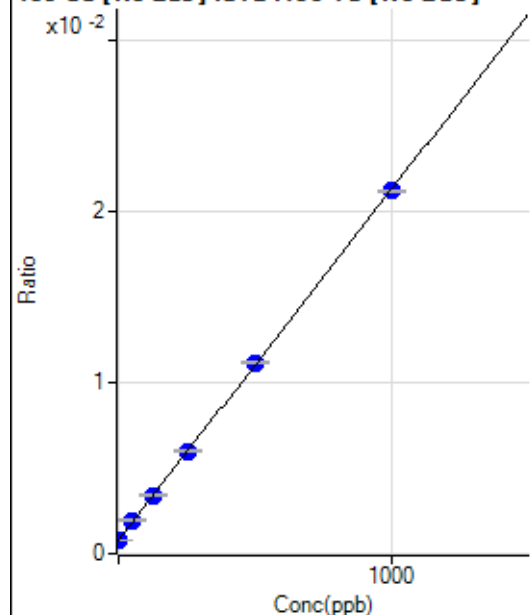
$$DL = 0.01176$$

$$BEC = 0.01841$$

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	11466.00	0.0008	P	5.0
2	☐	1.000	1.336	11799.63	0.0008	P	2.1
3	☐	50.000	56.321	25817.92	0.0020	P	4.2
4	☐	125.000	126.550	48345.21	0.0034	P	2.5
5	☐	250.000	252.071	85697.67	0.0060	P	1.9
6	☐	500.000	506.521	158277.97	0.0112	P	1.0
7	☐	1000.000	995.712	310185.68	0.0212	P	0.3
8	☐			10548.56	0.0008	P	2.9

$$y = 2.0490\text{E-}005 * x + 7.9947\text{E-}004$$

$$R = 1.0000$$

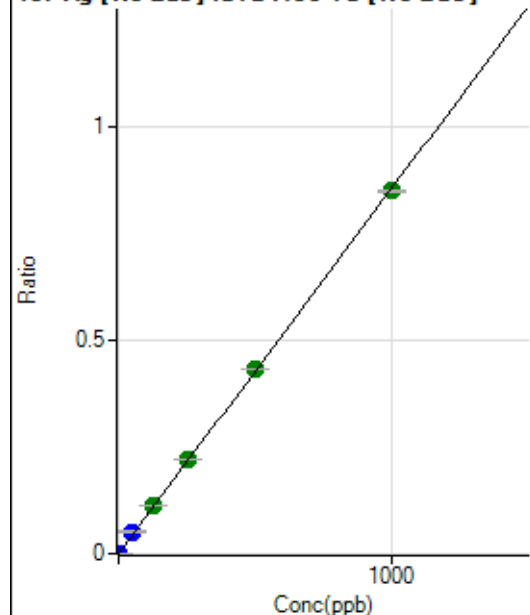
$$DL = 5.813$$

$$BEC = 39.02$$

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	111.12	0.0000	P	17.9
2	☐	1.000	0.932	11477.08	0.0008	P	9.8
3	☐	50.000	59.367	670169.77	0.0507	P	5.2
4	☐	125.000	130.945	1594403.69	0.1119	A	0.5
5	☐	250.000	258.288	3170972.36	0.2207	A	1.6
6	☐	500.000	505.372	6114099.57	0.4318	A	0.7
7	☐	1000.000	994.031	12425323.37	0.8493	A	0.9
8	☐			5142.72	0.0004	P	9.1

$$y = 8.5441\text{E-}004 * x + 7.7351\text{E-}006$$

$$R = 0.9999$$

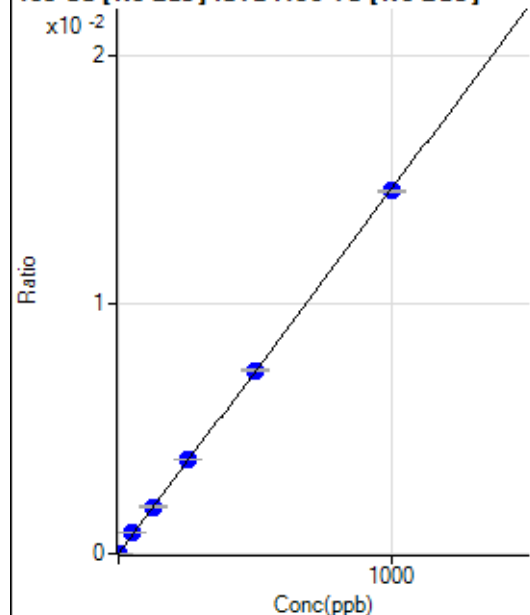
$$DL = 0.004866$$

$$BEC = 0.009053$$

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	34.72	0.0000	P	48.9
2	☐	1.000	1.253	295.84	0.0000	P	6.7
3	☐	50.000	57.659	11173.89	0.0008	P	4.8
4	☐	125.000	128.884	26895.84	0.0019	P	0.7
5	☐	250.000	258.643	54393.25	0.0038	P	0.1
6	☐	500.000	503.413	104288.58	0.0074	P	0.2
7	☐	1000.000	995.264	212997.03	0.0146	P	0.9
8	☐			184.73	0.0000	P	10.9

$$y = 1.4625\text{E-}005 * x + 2.4142\text{E-}006$$

$$R = 0.9999$$

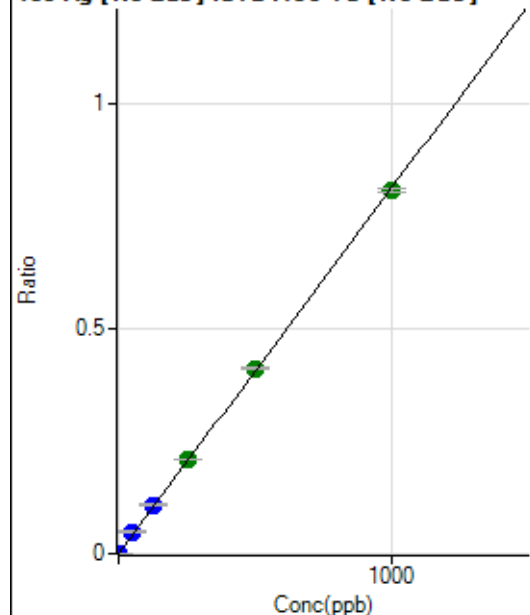
$$DL = 0.242$$

$$BEC = 0.1651$$

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	27.78	0.0000	P	16.1
2	☐	1.000	0.937	10884.96	0.0008	P	11.8
3	☐	50.000	59.154	634363.94	0.0480	P	6.0
4	☐	125.000	133.799	1548700.74	0.1087	P	2.4
5	☐	250.000	259.202	3025022.05	0.2105	A	0.9
6	☐	500.000	506.979	5830309.46	0.4118	A	0.4
7	☐	1000.000	992.653	11794425.35	0.8062	A	1.2
8	☐			4820.39	0.0004	P	5.0

$$y = 8.1218\text{E-}004 * x + 1.9338\text{E-}006$$

$$R = 0.9999$$

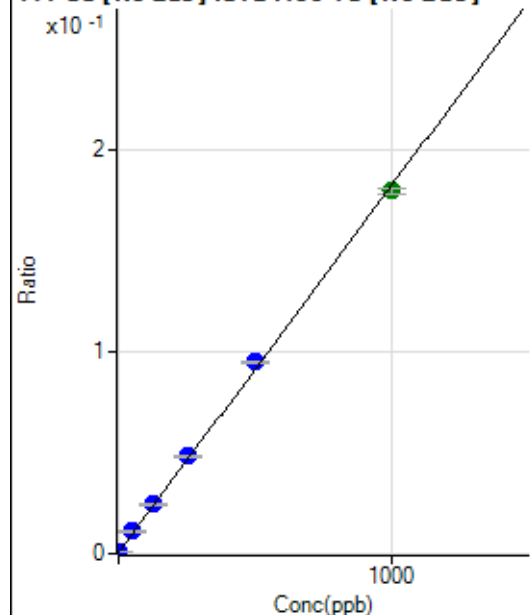
$$DL = 0.001153$$

$$BEC = 0.002381$$

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	8041.47	0.0006	P	4.9
2	☐	1.000	1.172	11042.55	0.0008	P	0.6
3	☐	50.000	59.077	149178.07	0.0113	P	7.3
4	☐	125.000	131.417	348651.34	0.0245	P	1.6
5	☐	250.000	263.014	695483.19	0.0484	P	1.4
6	☐	500.000	519.235	1345310.45	0.0950	P	0.5
7	☐	1000.000	985.873	2631749.18	0.1799	A	1.3
8	☐			8437.38	0.0006	P	2.7

$$y = 1.8190\text{E-}004 * x + 5.6069\text{E-}004$$

$$R = 0.9996$$

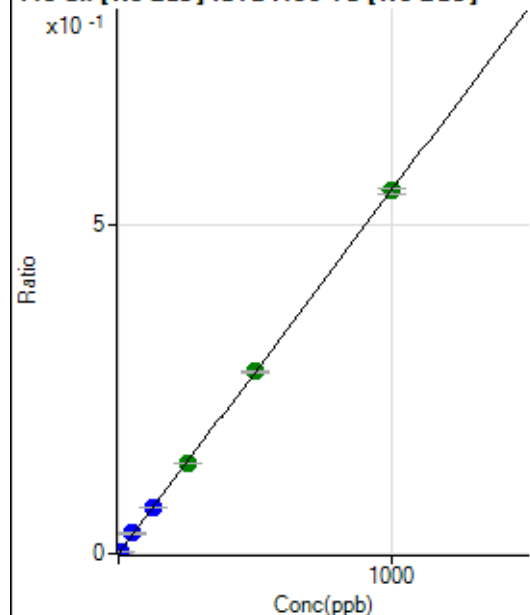
$$DL = 0.4529$$

$$BEC = 3.082$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2339.15	0.0002	P	7.8
2	☐	5.000	5.430	45243.89	0.0032	P	1.3
3	☐	50.000	57.555	422585.60	0.0320	P	8.1
4	☐	125.000	128.898	1019731.01	0.0716	P	0.8
5	☐	250.000	249.020	1984219.27	0.1381	A	1.5
6	☐	500.000	501.792	3937780.56	0.2781	A	0.8
7	☐	1000.000	998.482	8093015.72	0.5532	A	1.7
8	☐			13462.19	0.0010	P	2.7

$$y = 5.5390\text{E-}004 * x + 1.6317\text{E-}004$$

$$R = 1.0000$$

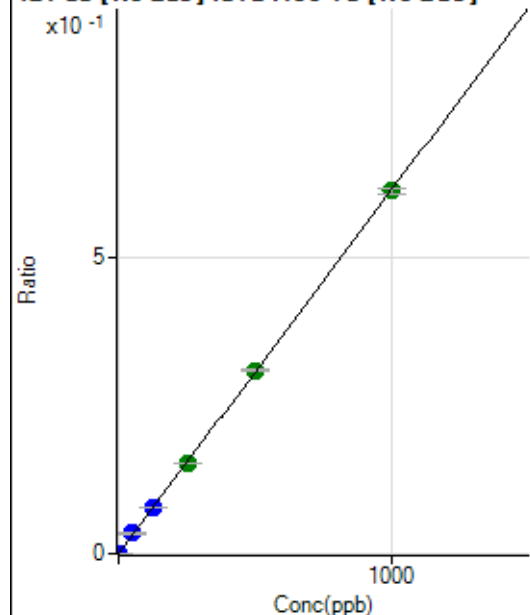
$$DL = 0.06887$$

$$BEC = 0.2946$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.56	0.0000	P	62.1
2	☐	2.000	2.204	19396.84	0.0014	P	2.8
3	☐	50.000	56.810	461049.58	0.0349	P	7.1
4	☐	125.000	128.950	1130130.20	0.0793	P	0.6
5	☐	250.000	249.249	2202539.83	0.1533	A	1.3
6	☐	500.000	503.156	4381426.53	0.3094	A	0.9
7	☐	1000.000	997.775	8977056.62	0.6136	A	1.6
8	☐			11830.14	0.0009	P	6.2

$$y = 6.1498\text{E-}004 * x + 3.8750\text{E-}006$$

$$R = 1.0000$$

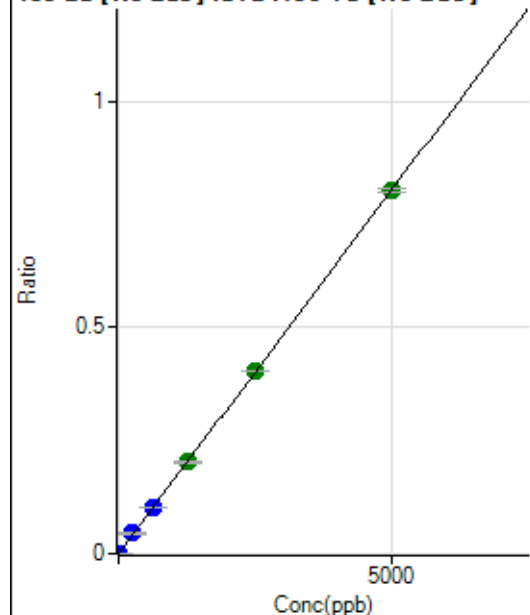
$$DL = 0.01175$$

$$BEC = 0.006301$$

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	58.34	0.0000	P	12.8
2	☐	10.000	10.318	23728.76	0.0017	P	1.4
3	☐	250.000	280.681	595462.62	0.0451	P	7.3
4	☐	625.000	637.295	1460180.08	0.1025	P	1.8
5	☐	1250.000	1257.750	2905668.19	0.2022	A	1.4
6	☐	2500.000	2508.087	5709834.59	0.4032	A	0.3
7	☐	5000.000	4990.948	11739253.65	0.8024	A	0.9
8	☐			5970.87	0.0004	P	6.6

$$y = 1.6077E-004 * x + 4.0605E-006$$

$$R = 1.0000$$

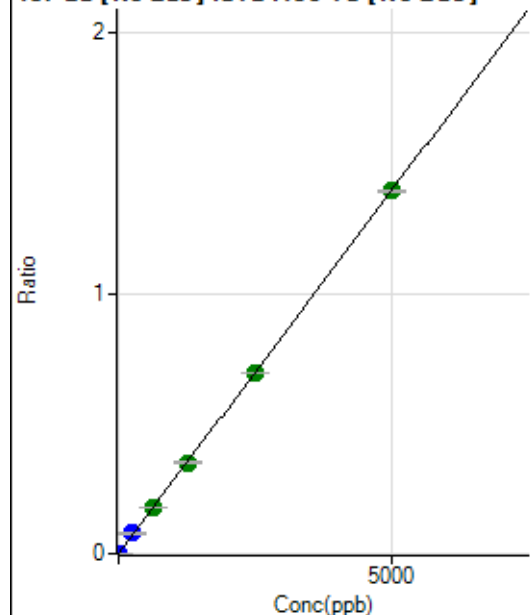
$$DL = 0.009672$$

$$BEC = 0.02526$$

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	75.00	0.0000	P	20.8
2	☐	10.000	10.520	41948.66	0.0029	P	1.0
3	☐	250.000	282.371	1038767.14	0.0788	P	8.2
4	☐	625.000	632.355	2513748.40	0.1764	A	1.3
5	☐	1250.000	1254.190	5026764.96	0.3499	A	2.0
6	☐	2500.000	2497.599	9865018.88	0.6967	A	0.3
7	☐	5000.000	4997.614	20394647.16	1.3941	A	0.8
8	☐			9878.67	0.0007	P	5.5

$$y = 2.7894E-004 * x + 5.2159E-006$$

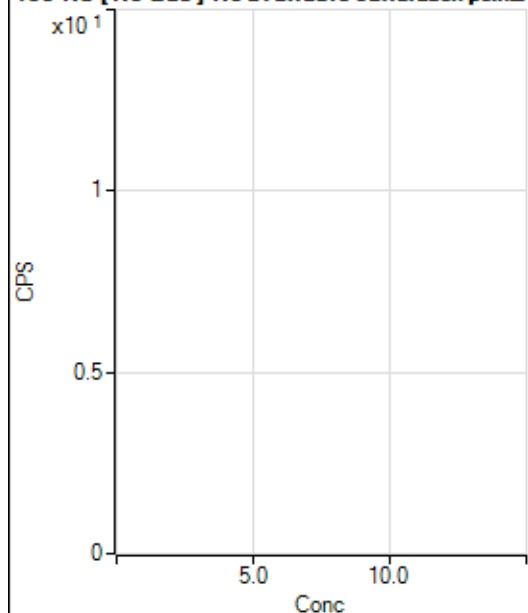
$$R = 1.0000$$

$$DL = 0.01164$$

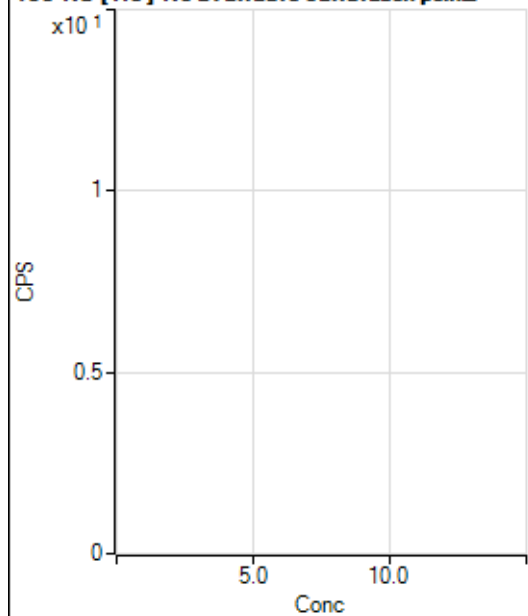
$$BEC = 0.0187$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			11.11		P	91.7
3	☐			80.00		P	16.7
4	☐			206.67		P	6.5
5	☐			288.90		P	21.3
6	☐			675.59		P	10.6
7	☐			1586.79		P	3.7
8	☐			77.78		P	49.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	173.
3	☐			17.78		P	21.7
4	☐			38.89		P	47.2
5	☐			80.00		P	18.2
6	☐			150.00		P	4.4
7	☐			353.34		P	2.5
8	☐			57.78		P	27.3

156 Dy [No Gas] No available calibration points

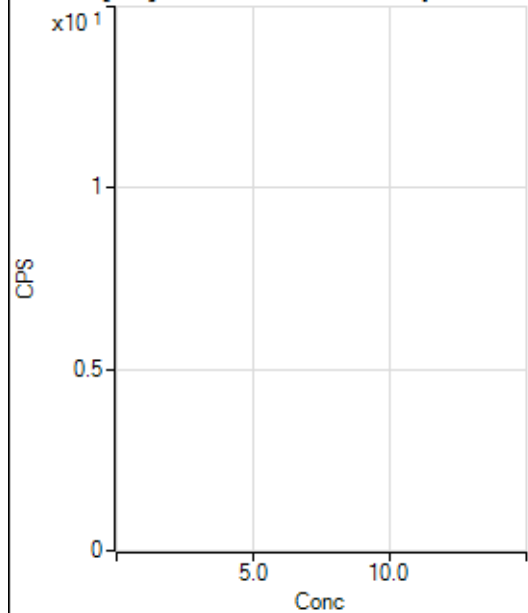
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			19.44		P	65.5
3	☐			30.56		P	63.0
4	☐			86.11		P	29.6
5	☐			144.45		P	14.5
6	☐			255.57		P	7.5
7	☐			655.59		P	14.7
8	☐			880.61		P	5.2

156 Dy [He] No available calibration points

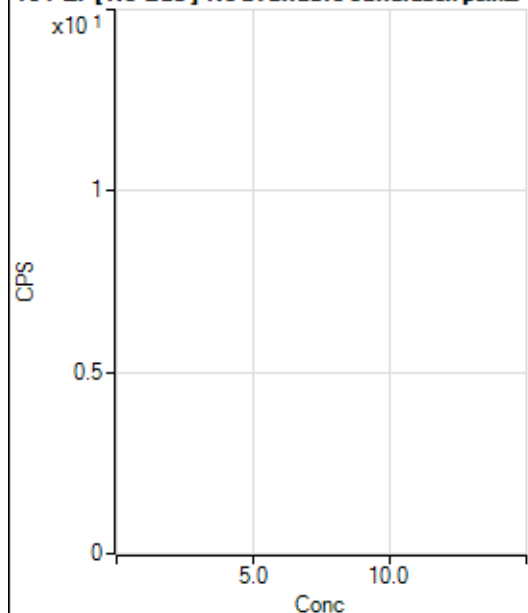
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	88.2
2	☐			5.56		P	91.6
3	☐			33.33		P	45.8
4	☐			74.44		P	2.6
5	☐			156.67		P	9.3
6	☐			272.23		P	21.1
7	☐			674.47		P	10.2
8	☐			521.13		P	2.1

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

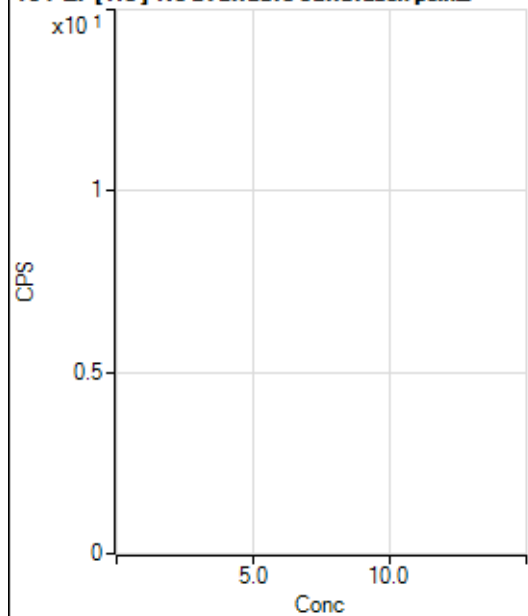
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			144.45		P	27.3
2	☐			136.12		P	9.4
3	☐			119.45		P	14.5
4	☐			130.56		P	37.4
5	☐			200.01		P	8.3
6	☐			225.01		P	32.3
7	☐			472.25		P	6.7
8	☐			419.46		P	22.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			491.13		P	12.8
2	☐			476.68		P	2.1
3	☐			467.79		P	10.7
4	☐			500.01		P	11.9
5	☐			524.46		P	1.3
6	☐			533.35		P	9.2
7	☐			710.03		P	13.5
8	☐			682.24		P	10.1

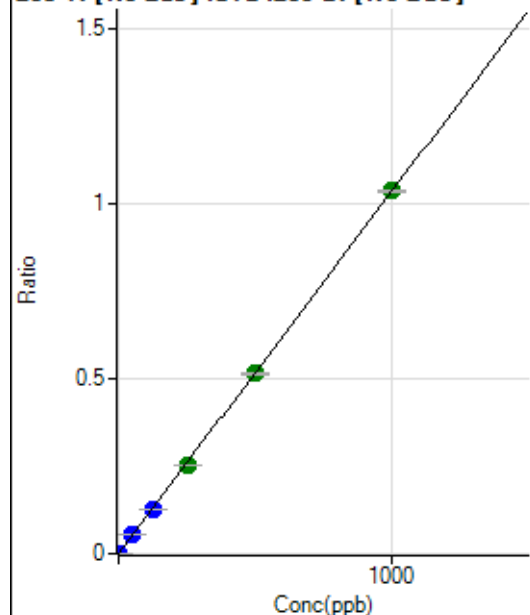
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75.00		P	22.2
2	☐			80.56		P	15.8
3	☐			69.45		P	25.0
4	☐			94.45		P	20.4
5	☐			116.67		P	25.8
6	☐			113.89		P	34.6
7	☐			280.57		P	19.3
8	☐			144.45		P	21.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	30.7
2	☐			34.45		P	20.1
3	☐			44.44		P	4.3
4	☐			44.44		P	18.9
5	☐			56.67		P	36.7
6	☐			74.44		P	28.8
7	☐			181.11		P	12.3
8	☐			95.55		P	7.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	91.67	0.0000	P	15.8
2	☐	1.000	1.014	9272.83	0.0011	P	2.7
3	☐	50.000	53.070	447860.65	0.0549	P	7.6
4	☐	125.000	121.372	1094036.72	0.1257	P	1.5
5	☐	250.000	245.462	2219555.15	0.2541	A	0.8
6	☐	500.000	497.731	4385269.15	0.5153	A	0.9
7	☐	1000.000	1002.569	8888463.31	1.0379	A	0.3
8	☐			2350.29	0.0003	P	9.2

$$y = 0.0010 * x + 1.0473E-005$$

$$R = 1.0000$$

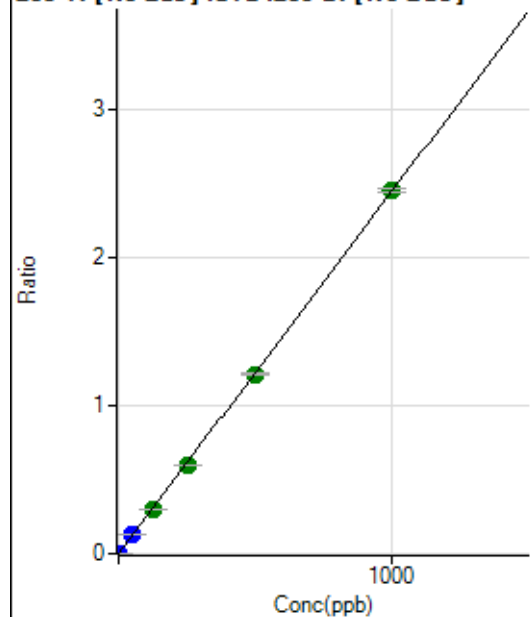
$$DL = 0.004796$$

$$BEC = 0.01012$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	236.12	0.0000	P	12.1
2	☐	1.000	1.008	21731.82	0.0025	P	2.9
3	☐	50.000	53.123	1056521.93	0.1296	P	6.8
4	☐	125.000	122.166	2595093.20	0.2979	A	1.1
5	☐	250.000	244.566	5209483.01	0.5964	A	0.7
6	☐	500.000	497.047	10316074.19	1.2122	A	1.3
7	☐	1000.000	1003.033	20948851.68	2.4461	A	1.2
8	☐			5504.04	0.0008	P	4.8

$$y = 0.0024 * x + 2.6965E-005$$

$$R = 1.0000$$

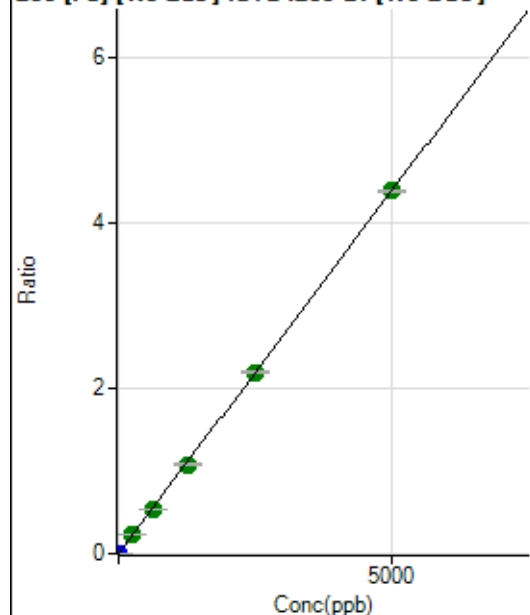
$$DL = 0.004004$$

$$BEC = 0.01106$$

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	220.37	0.0000	P	19.5
2	☐	1.000	0.976	7702.30	0.0009	P	4.7
3	☐	250.000	266.280	1902161.52	0.2334	A	7.5
4	☐	625.000	609.283	4650116.48	0.5340	A	0.6
5	☐	1250.000	1229.934	9414461.67	1.0779	A	1.2
6	☐	2500.000	2505.606	18688122.41	2.1958	A	0.1
7	☐	5000.000	5003.364	37551678.15	4.3847	A	0.9
8	☐			8434.21	0.0012	P	5.4

$$y = 8.7634\text{E-}004 * x + 2.5155\text{E-}005$$

$$R = 1.0000$$

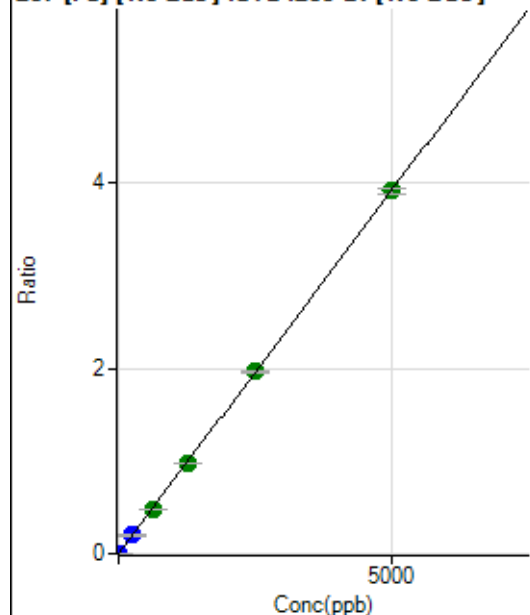
$$DL = 0.01682$$

$$BEC = 0.0287$$

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	200.00	0.0000	P	5.7
2	☐	1.000	0.968	6825.88	0.0008	P	1.1
3	☐	250.000	258.902	1653519.67	0.2028	P	6.6
4	☐	625.000	609.639	4157934.90	0.4775	A	0.8
5	☐	1250.000	1241.804	8494564.60	0.9725	A	0.5
6	☐	2500.000	2511.147	16737916.23	1.9666	A	0.7
7	☐	5000.000	4997.950	33520797.51	3.9141	A	1.3
8	☐			7016.74	0.0010	P	6.4

$$y = 7.8314\text{E-}004 * x + 2.2855\text{E-}005$$

$$R = 1.0000$$

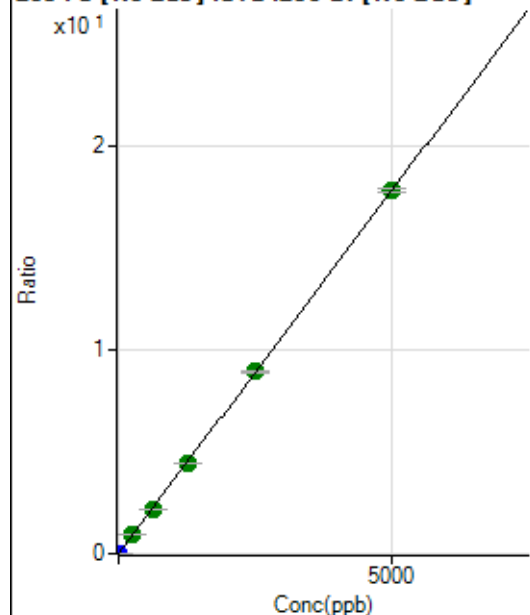
$$DL = 0.005022$$

$$BEC = 0.02918$$

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	901.87	0.0001	P	8.3
2	☐	1.000	0.966	31025.43	0.0035	P	0.7
3	☐	250.000	266.709	7752576.77	0.9509	A	7.0
4	☐	625.000	611.329	18979812.95	2.1795	A	0.1
5	☐	1250.000	1240.786	38638152.20	4.4236	A	0.6
6	☐	2500.000	2505.813	76031702.97	8.9334	A	0.2
7	☐	5000.000	5000.271	152668429.34	17.8263	A	0.9
8	☐			33153.49	0.0046	P	6.6

$$y = 0.0036 * x + 1.0299E-004$$

$$R = 1.0000$$

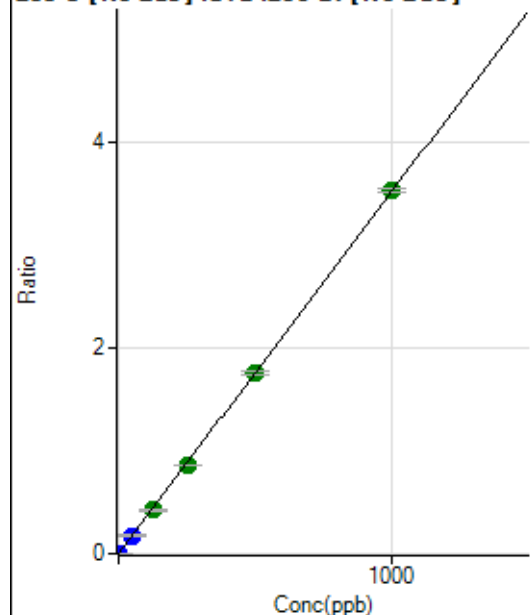
$$DL = 0.007227$$

$$BEC = 0.02889$$

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	166.67	0.0000	P	9.6
2	☐	1.000	0.947	29243.86	0.0033	P	2.2
3	☐	50.000	49.570	1417713.48	0.1740	P	8.3
4	☐	125.000	120.354	3677567.05	0.4224	A	1.9
5	☐	250.000	244.501	7495226.47	0.8582	A	1.5
6	☐	500.000	497.466	14861435.92	1.7460	A	2.2
7	☐	1000.000	1003.244	30156323.94	3.5212	A	1.2
8	☐			2750.37	0.0004	P	17.2

$$y = 0.0035 * x + 1.9035E-005$$

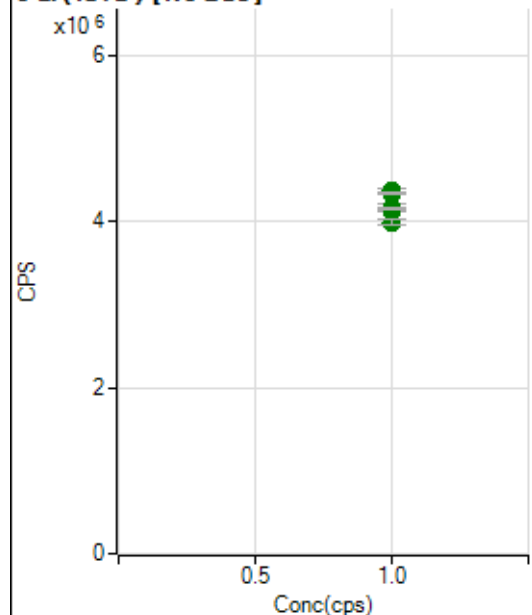
$$R = 1.0000$$

$$DL = 0.001561$$

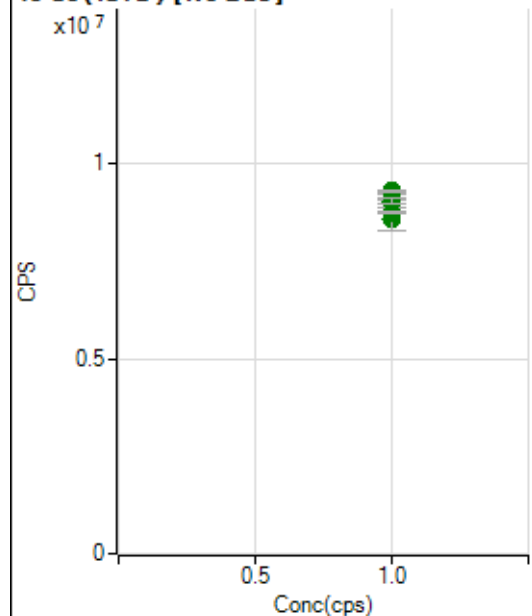
$$BEC = 0.005423$$

Weight: <None>

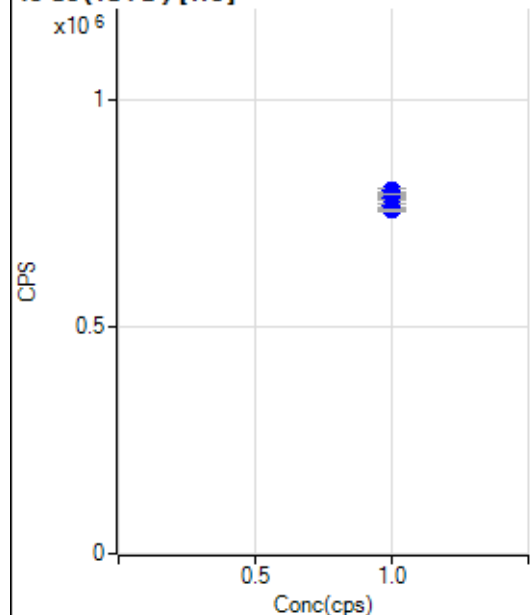
Min Conc: 0

6 Li (ISTD) [No Gas]

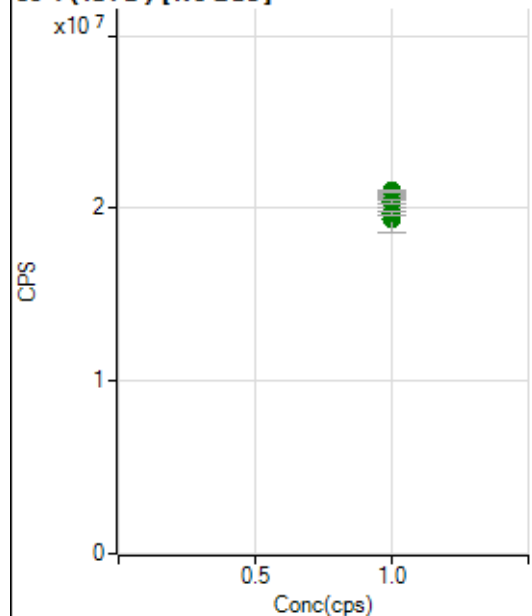
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4365069.31		A	1.2
2	☐	1.000		4341216.25		A	0.7
3	☐	1.000		4118918.72		A	4.6
4	☐	1.000		4327559.49		A	0.5
5	☐	1.000		4165463.83		A	0.4
6	☐	1.000		4132546.81		A	0.7
7	☐	1.000		4144864.42		A	0.6
8	☐	1.000		3990082.89		A	1.3

45 Sc (ISTD) [No Gas]

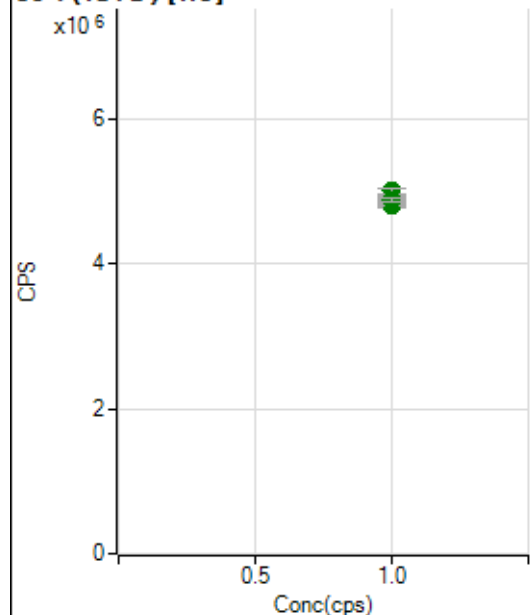
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9233740.28		A	0.6
2	☐	1.000		9264529.31		A	0.7
3	☐	1.000		8580323.62		A	6.8
4	☐	1.000		9089554.93		A	0.9
5	☐	1.000		9006031.53		A	1.1
6	☐	1.000		8736196.61		A	0.6
7	☐	1.000		9300900.14		A	0.5
8	☐	1.000		9039067.23		A	1.7

45 Sc (ISTD) [He]

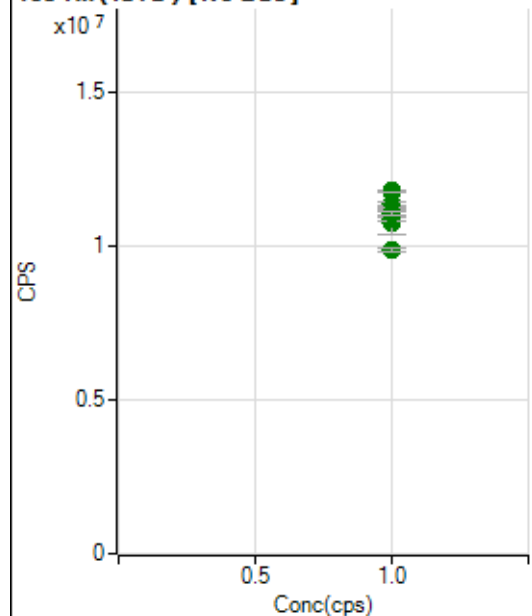
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		799760.40		P	1.0
2	☐	1.000		793822.26		P	0.3
3	☐	1.000		784254.68		P	0.1
4	☐	1.000		785931.36		P	1.1
5	☐	1.000		767505.01		P	0.7
6	☐	1.000		757340.41		P	0.7
7	☐	1.000		792741.54		P	0.6
8	☐	1.000		791215.39		P	0.2

89 Y (ISTD) [No Gas]

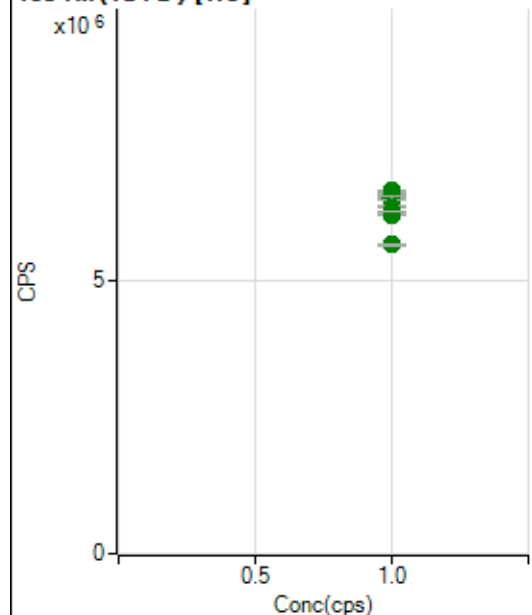
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20737757.19		A	1.1
2	☐	1.000		20780050.25		A	0.5
3	☐	1.000		19348485.13		A	7.5
4	☐	1.000		20673304.97		A	1.6
5	☐	1.000		20623997.19		A	0.7
6	☐	1.000		20367354.28		A	0.9
7	☐	1.000		21002577.88		A	0.8
8	☐	1.000		19725517.62		A	1.1

89 Y(ISTD) [He]

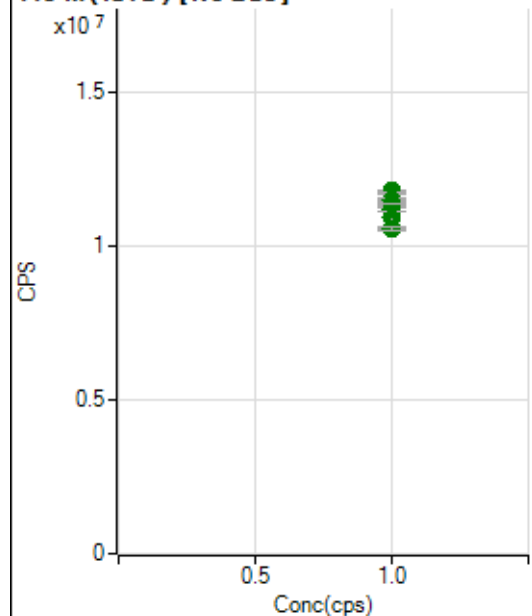
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4921296.59		A	0.6
2	☐	1.000		4907206.25		A	0.6
3	☐	1.000		4865163.37		A	0.3
4	☐	1.000		4897490.17		A	1.5
5	☐	1.000		4815311.91		A	1.1
6	☐	1.000		4820202.46		A	0.7
7	☐	1.000		5013859.37		A	1.4
8	☐	1.000		4884937.70		A	0.8

103 Rh(ISTD) [No Gas]

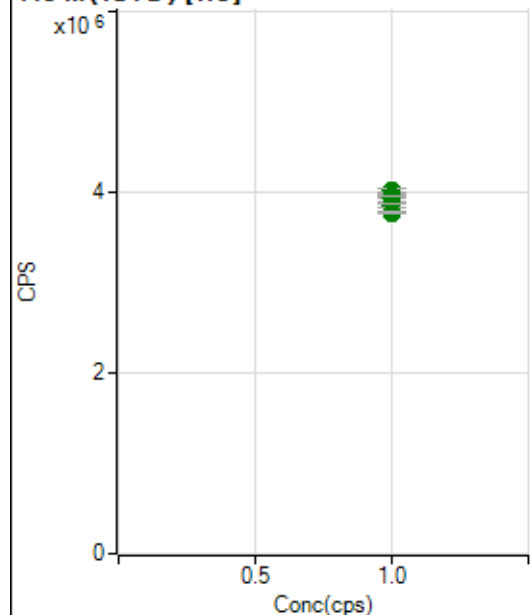
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11776537.19		A	0.4
2	☐	1.000		11739996.91		A	0.1
3	☐	1.000		10711871.51		A	7.1
4	☐	1.000		11375493.44		A	1.2
5	☐	1.000		11226442.89		A	0.5
6	☐	1.000		10869975.26		A	1.1
7	☐	1.000		11040962.96		A	0.8
8	☐	1.000		9857874.58		A	1.2

103 Rh (ISTD) [He]

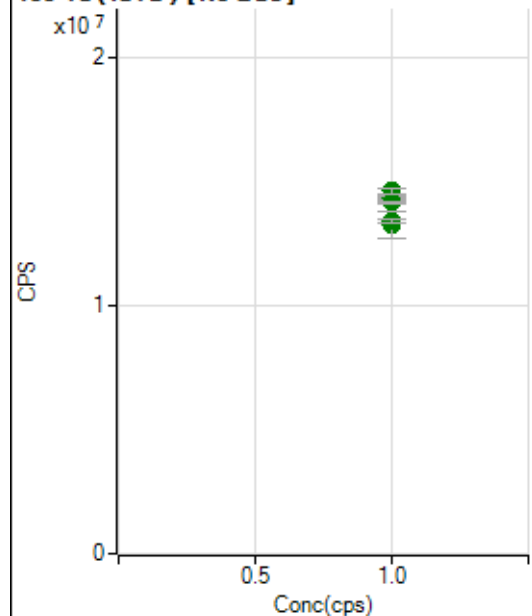
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6659836.29		A	0.5
2	☐	1.000		6607283.23		A	1.2
3	☐	1.000		6567175.25		A	0.6
4	☐	1.000		6530839.63		A	1.2
5	☐	1.000		6362249.77		A	0.4
6	☐	1.000		6224808.10		A	0.3
7	☐	1.000		6276185.67		A	0.3
8	☐	1.000		5672602.49		A	0.8

115 In (ISTD) [No Gas]

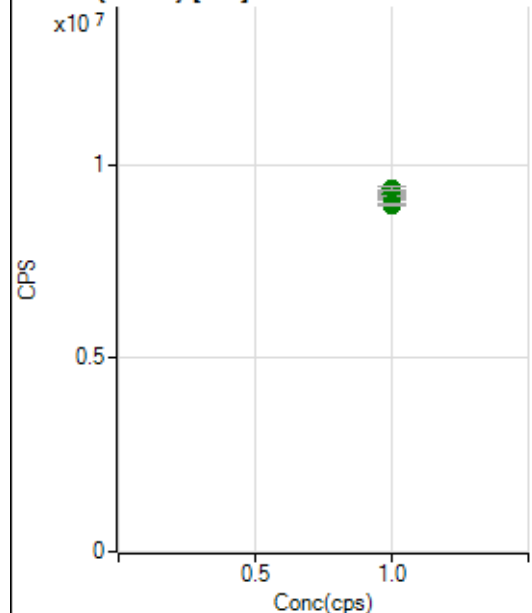
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11775530.54		A	0.8
2	☐	1.000		11705152.81		A	0.3
3	☐	1.000		10913465.67		A	7.1
4	☐	1.000		11420350.01		A	1.4
5	☐	1.000		11478182.03		A	0.9
6	☐	1.000		11191387.70		A	1.2
7	☐	1.000		11350099.61		A	0.2
8	☐	1.000		10542812.61		A	1.6

115 In (ISTD) [He]

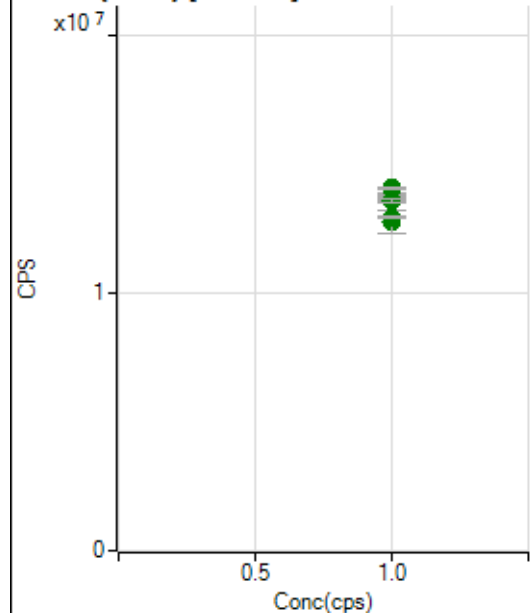
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4012411.27		A	1.1
2	☐	1.000		3957044.22		A	1.2
3	☐	1.000		3940208.35		A	0.6
4	☐	1.000		3927033.28		A	1.4
5	☐	1.000		3848030.37		A	1.2
6	☐	1.000		3789516.33		A	0.3
7	☐	1.000		3850667.03		A	1.2
8	☐	1.000		3774179.79		A	1.0

159 Tb (ISTD) [No Gas]

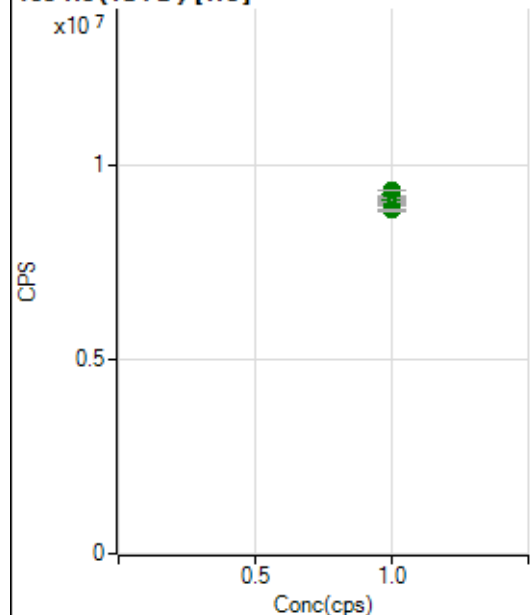
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14347830.76		A	1.7
2	☐	1.000		14270626.32		A	0.7
3	☐	1.000		13247317.30		A	8.3
4	☐	1.000		14249821.32		A	0.9
5	☐	1.000		14369962.70		A	1.0
6	☐	1.000		14159766.87		A	0.7
7	☐	1.000		14630906.73		A	1.6
8	☐	1.000		13436614.66		A	1.2

159 Tb (ISTD) [He]

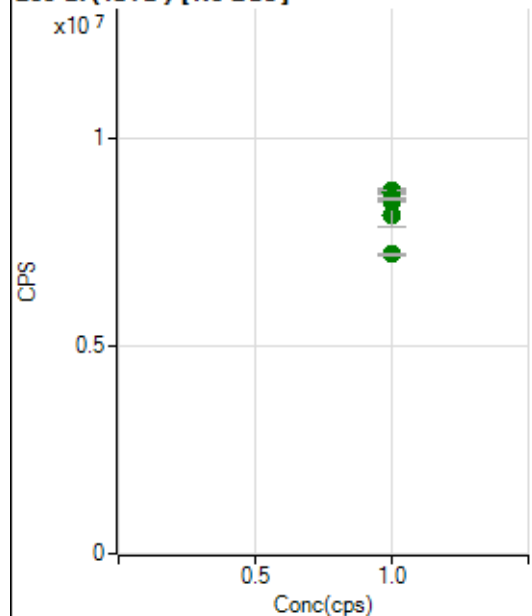
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9190508.96		A	1.1
2	☐	1.000		9152066.04		A	1.2
3	☐	1.000		9131642.92		A	0.2
4	☐	1.000		9243942.09		A	1.5
5	☐	1.000		9203759.17		A	0.3
6	☐	1.000		9216802.99		A	1.1
7	☐	1.000		9365585.76		A	1.0
8	☐	1.000		8950050.84		A	0.4

165 Ho (ISTD) [No Gas]

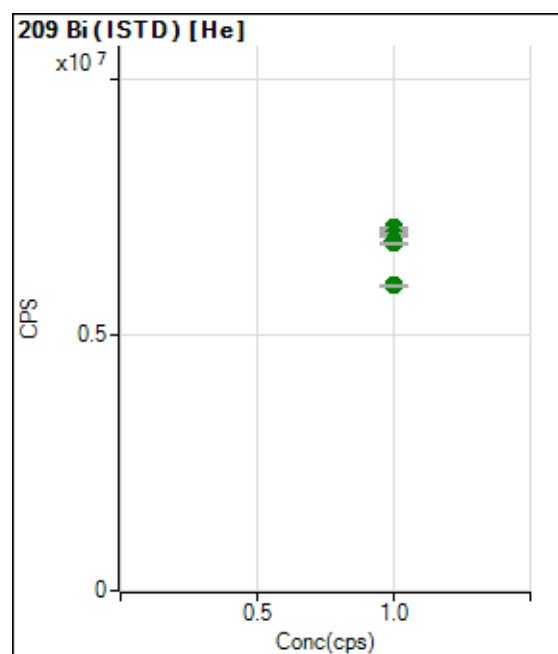
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13684266.32		A	1.1
2	☐	1.000		13753871.60		A	0.5
3	☐	1.000		12728244.26		A	6.9
4	☐	1.000		13770138.68		A	2.0
5	☐	1.000		13774122.85		A	0.3
6	☐	1.000		13577716.60		A	1.5
7	☐	1.000		14071480.34		A	0.3
8	☐	1.000		12931169.81		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9067436.67		A	1.3
2	☐	1.000		9051671.53		A	0.9
3	☐	1.000		9016919.59		A	1.1
4	☐	1.000		9255041.94		A	1.6
5	☐	1.000		9053310.77		A	0.9
6	☐	1.000		9072386.53		A	1.0
7	☐	1.000		9322245.35		A	0.1
8	☐	1.000		8838134.17		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8754054.24		A	1.1
2	☐	1.000		8745001.05		A	0.7
3	☐	1.000		8180218.83		A	7.2
4	☐	1.000		8708385.84		A	2.4
5	☐	1.000		8734761.54		A	1.3
6	☐	1.000		8510887.03		A	0.6
7	☐	1.000		8564026.96		A	0.8
8	☐	1.000		7227625.93		A	0.6



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7081275.94		A	0.6
2	☐	1.000		7055226.35		A	1.2
3	☐	1.000		6967656.29		A	0.2
4	☐	1.000		7074220.66		A	0.8
5	☐	1.000		6956952.05		A	0.5
6	☐	1.000		6833932.26		A	1.7
7	☐	1.000		6778745.80		A	0.8
8	☐	1.000		5951690.75		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7101522MS.b

Acq. Date-Time 2022-10-15 13:15:35

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		10999	109992.79			0.422	5.000
24		122742	1227419.34			0.691	5.000
25		17164	171643.58			0.291	5.000
26		19832	198318.43			0.346	5.000
59		92279	922789.56			0.453	5.000
113		9222	92216.07			0.713	5.000
115		115808	1158081.91			1.329	5.000
206		24626	246259.46			0.436	5.000
207		22743	227433.14			0.578	5.000
208		53333	533332.96			0.387	5.000
220		0	2.60			51.602	

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

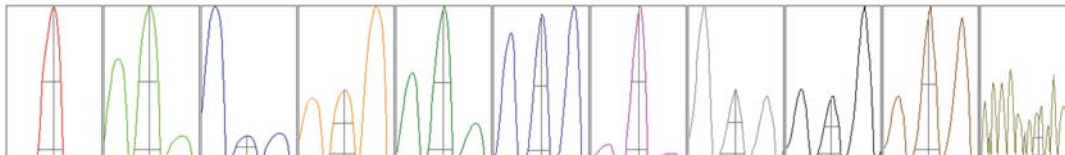
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11047	10956	10953	10993	11047
24	123354	122487	122786	123627	121456
25	17228	17146	17191	17161	17095
26	19895	19864	19803	19871	19726
59	92417	92847	92030	92358	91743
113	9294	9271	9229	9181	9133
115	118189	116161	114296	115766	114629
206	24740	24653	24505	24709	24522
207	22722	22719	22913	22806	22555
208	53472	53398	53524	53263	53008

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20369.46	9.00	8.90 - 9.10	
24	209822.71	23.95	23.90 - 24.10	
25	28887.93	24.95	24.90 - 25.10	
26	32876.00	25.95	25.90 - 26.10	
59	179977.94	59.00	58.90 - 59.10	
113	21511.46	113.05	112.90 - 113.10	
115	266862.88	115.05	114.90 - 115.10	
206	55486.56	206.00	205.90 - 206.10	
207	48377.52	206.95	206.90 - 207.10	
208	117038.16	207.95	207.90 - 208.10	
220	0.30	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.777	0.900	
24	0.62	0.818	0.900	
25	0.62	0.790	0.900	
26	0.64	0.794	0.900	
59	0.53	0.764	0.900	
113	0.43	0.690	0.900	
115	0.44	0.680	0.900	
206	0.45	0.777	0.900	
207	0.48	0.728	0.900	
208	0.46	0.782	0.900	
220	0.29	0.344		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.2 V	Deflect	15.0 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		30813	308128.04			0.612	
89		46892	468916.46			0.499	
205		40305	403052.98			0.664	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	30672	30674	30683	30982	31053
89	46906	46746	46762	47293	46752
205	40547	40105	40064	40172	40640

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.8 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
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