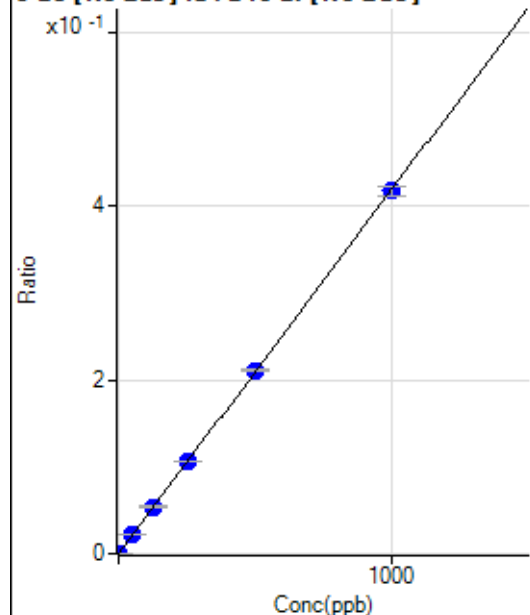


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8100920MS.b\
Analysis File: P8100920MS.batch.bin
DA Date-Time: 2020-10-11 20:31:03
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-10-09 11:25:14
2	004CAL.S.d	S02	2020-10-09 11:28:25
3	005CAL.S.d	S03	2020-10-09 11:31:34
4	006CAL.S.d	S04	2020-10-09 11:34:44
5	007CAL.S.d	S05	2020-10-09 11:37:48
6	008CAL.S.d	S06	2020-10-09 11:40:48
7	009CAL.S.d	S07	2020-10-09 11:43:47
8	010CAL.S.d	S08	2020-10-09 11:46:47

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23.99	0.0000	P	37.9
2	☐	1.000	0.979	769.21	0.0004	P	3.3
3	☐	50.000	52.077	38714.14	0.0218	P	1.1
4	☐	125.000	127.905	98955.18	0.0535	P	2.5
5	☐	250.000	252.484	194873.64	0.1056	P	1.1
6	☐	500.000	504.085	393682.85	0.2109	P	1.1
7	☐	1000.000	996.870	777099.62	0.4171	P	3.0
8	☐			209.96	0.0001	P	6.5

$$y = 4.1836\text{E-}004 * x + 1.3240\text{E-}005$$

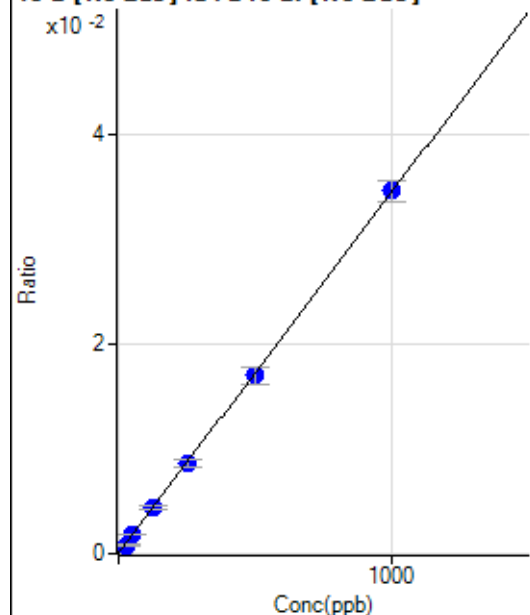
$$R = 1.0000$$

$$DL = 0.03601$$

$$BEC = 0.03165$$

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	85.98	0.0000	P	6.8
2	☐	25.000	21.827	1452.46	0.0008	P	9.8
3	☐	50.000	51.618	3238.40	0.0018	P	7.5
4	☐	125.000	127.520	8194.69	0.0044	P	9.6
5	☐	250.000	248.807	15874.11	0.0086	P	8.2
6	☐	500.000	492.170	31708.54	0.0170	P	9.0
7	☐	1000.000	1003.897	64535.00	0.0346	P	6.2
8	☐			9505.89	0.0049	P	9.7

$$y = 3.4404\text{E-}005 * x + 4.7512\text{E-}005$$

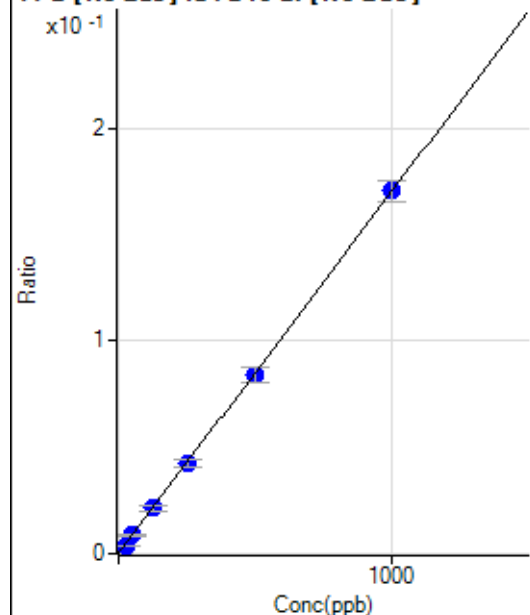
$$R = 0.9999$$

$$DL = 0.2811$$

$$BEC = 1.381$$

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	371.93	0.0002	P	7.9
2	☐	25.000	21.370	6978.30	0.0038	P	10.0
3	☐	50.000	51.537	15914.19	0.0090	P	9.4
4	☐	125.000	124.445	39442.30	0.0213	P	10.0
5	☐	250.000	248.707	78291.23	0.0425	P	8.4
6	☐	500.000	494.893	157351.21	0.0843	P	8.9
7	☐	1000.000	1002.960	318269.34	0.1706	P	5.9
8	☐			46385.32	0.0239	P	9.8

$$y = 1.6987\text{E-}004 * x + 2.0545\text{E-}004$$

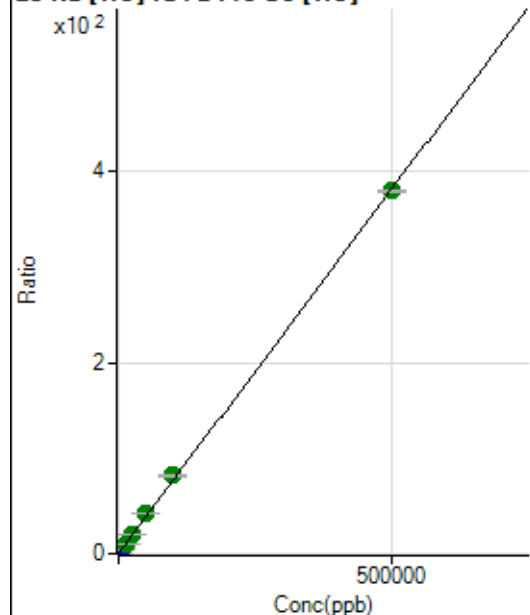
$$R = 1.0000$$

$$DL = 0.2867$$

$$BEC = 1.209$$

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	29973.00	0.1668	P	2.5
2	☐	500.000	526.306	101522.06	0.5679	P	0.5
3	☐	5000.000	5389.708	772910.05	4.2745	P	0.8
4	☐	12500.000	13370.227	1887991.25	10.3568	A	1.7
5	☐	25000.000	26727.912	3677588.15	20.5373	A	1.8
6	☐	50000.000	54630.292	7385292.53	41.8030	A	2.4
7	☐	100000.00	107213.71	14677964.22	81.8793	A	2.2
8	☐	500000.00	497982.15	67952051.52	379.7018	A	0.9

$$y = 7.6215\text{E-}004 * x + 0.1668$$

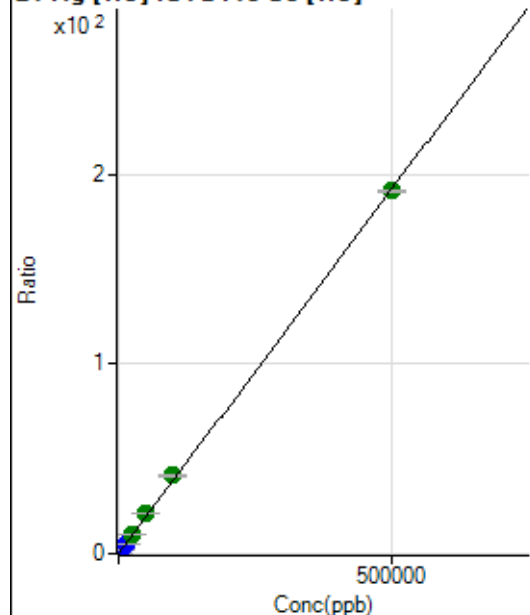
$$R = 0.9999$$

$$DL = 16.73$$

$$BEC = 218.8$$

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	458.35	0.0026	P	12.9
2	☐	500.000	521.944	36318.03	0.2031	P	1.2
3	☐	5000.000	5426.518	377545.80	2.0881	P	1.8
4	☐	12500.000	13561.431	950548.54	5.2145	P	1.4
5	☐	25000.000	26967.070	1856313.69	10.3665	A	1.7
6	☐	50000.000	55085.101	3740264.36	21.1727	A	2.8
7	☐	100000.00	106895.82	7365338.71	41.0845	A	2.1
8	☐	500000.00	497983.14	34252247.29	191.3864	A	0.6

$$y = 3.8432\text{E-}004 * x + 0.0026$$

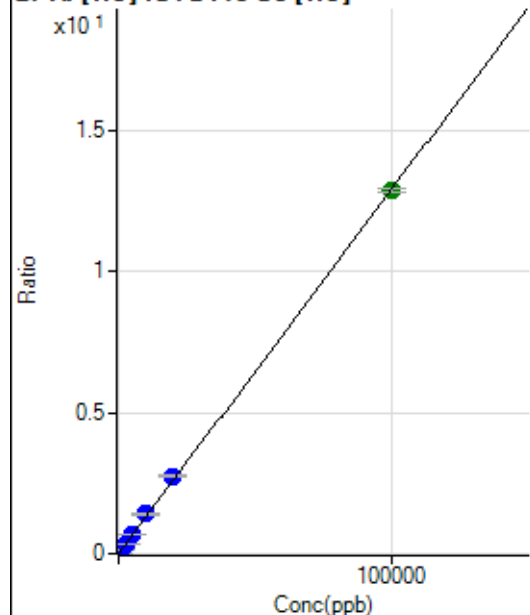
$$R = 0.9999$$

$$DL = 2.562$$

$$BEC = 6.642$$

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	683.68	0.0038	P	4.1
2	☐	20.000	20.060	1142.41	0.0064	P	3.3
3	☐	1000.000	1045.721	25095.03	0.1388	P	0.6
4	☐	2500.000	2639.063	62790.04	0.3445	P	1.5
5	☐	5000.000	5306.551	123344.33	0.6888	P	0.8
6	☐	10000.000	10938.474	250105.16	1.4158	P	2.6
7	☐	20000.000	21291.721	493325.24	2.7522	P	2.7
8	☐	100000.00	99628.547	2302297.45	12.8640	A	1.1

$$y = 1.2908\text{E-}004 * x + 0.0038$$

$$R = 0.9999$$

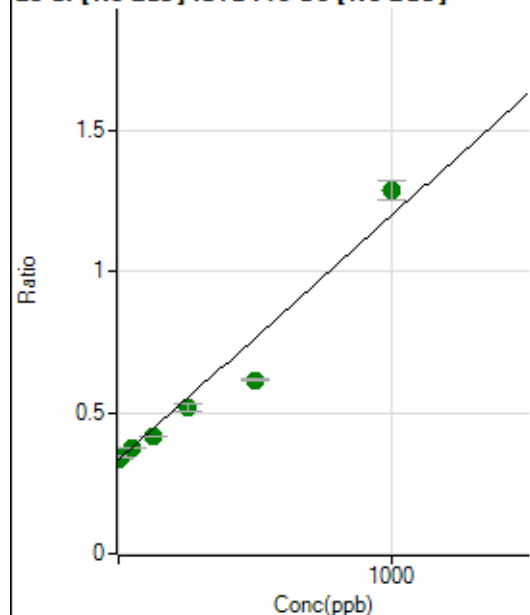
$$DL = 3.629$$

$$BEC = 29.46$$

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	1170757.72	0.3337	A	1.5
2	☐	10.000	12.374	1198915.26	0.3444	A	1.4
3	☐	50.000	50.556	1317553.21	0.3775	A	0.5
4	☐	125.000	94.429	1496451.87	0.4155	A	0.8
5	☐	250.000	209.670	1829827.45	0.5155	A	5.3
6	☐	500.000	327.077	2265818.52	0.6172	A	1.2
7	☐	1000.000	1100.314	4575332.92	1.2876	A	5.2
8	☐			1415341.25	0.3860	A	1.8

$$y = 8.6698\text{E-}004 * x + 0.3337$$

$$R = 0.9791$$

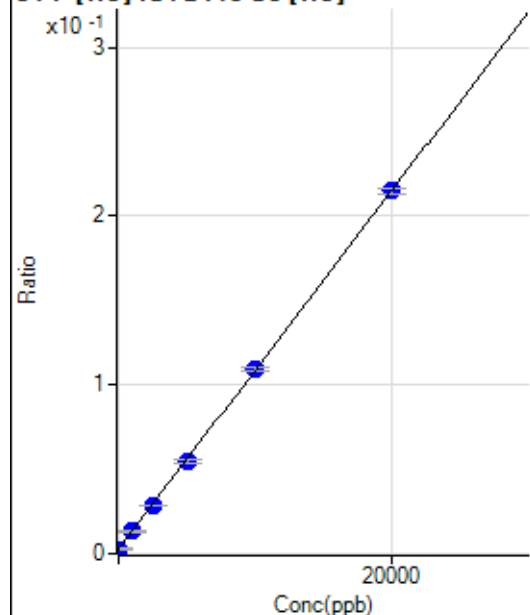
$$DL = 16.84$$

$$BEC = 384.9$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	7.167	511.13	0.0028	P	7.6
2	☐	0.000	-7.167	480.58	0.0027	P	12.0
3	☐	1000.000	1001.298	2419.72	0.0134	P	4.7
4	☐	2500.000	2437.369	5214.98	0.0286	P	1.9
5	☐	5000.000	4897.455	9789.68	0.0547	P	5.3
6	☐	10000.000	10057.873	19330.03	0.1094	P	1.4
7	☐	20000.000	20004.464	38512.82	0.2148	P	1.7
8	☐			536.14	0.0030	P	18.3

$$y = 1.0600\text{E-}005 * x + 0.0028$$

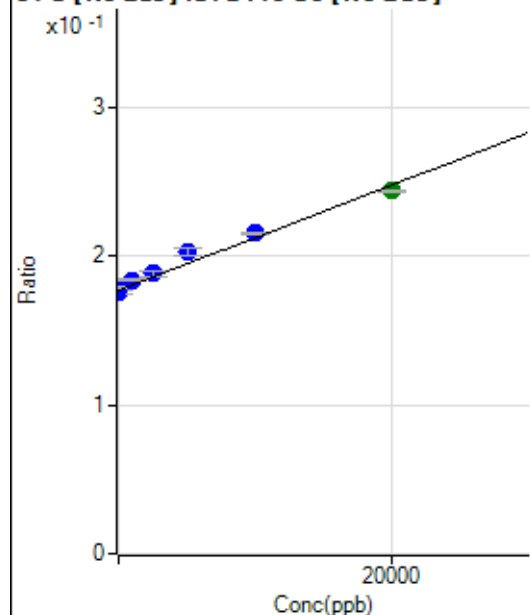
$$R = 1.0000$$

$$DL = 76.23$$

$$BEC = 260.9$$

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	-468.000	616326.99	0.1757	P	1.3
2	☐	0.000	468.000	623100.39	0.1790	P	1.1
3	☐	1000.000	1966.058	643171.28	0.1843	P	0.9
4	☐	2500.000	3160.715	678718.11	0.1885	P	2.0
5	☐	5000.000	7294.309	721425.08	0.2031	P	2.0
6	☐	10000.000	10794.138	791087.50	0.2155	P	0.1
7	☐	20000.000	18898.462	867541.82	0.2442	A	0.4
8	☐			620518.68	0.1692	P	1.7

$$y = 3.5359\text{E-}006 * x + 0.1773$$

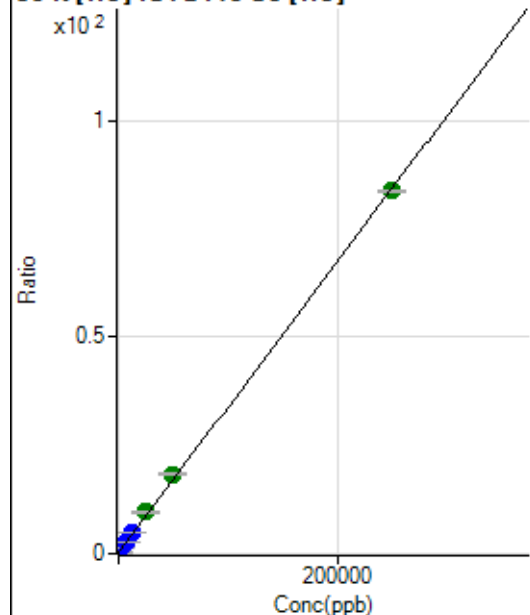
$$R = 0.9898$$

$$DL = 1862$$

$$BEC = 5.015\text{E}+04$$

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	38023.12	0.2116	P	2.0
2	☐	500.000	514.318	68688.99	0.3842	P	1.0
3	☐	2500.000	2701.400	202255.71	1.1185	P	0.3
4	☐	6250.000	6834.948	456895.23	2.5063	P	1.2
5	☐	12500.000	13813.781	868414.17	4.8494	P	1.0
6	☐	25000.000	27825.099	1687597.01	9.5536	A	3.1
7	☐	50000.000	53722.643	3271178.41	18.2486	A	2.4
8	☐	250000.00	248890.60	14993115.61	83.7749	A	0.5

$$y = 3.3574\text{E-}004 * x + 0.2116$$

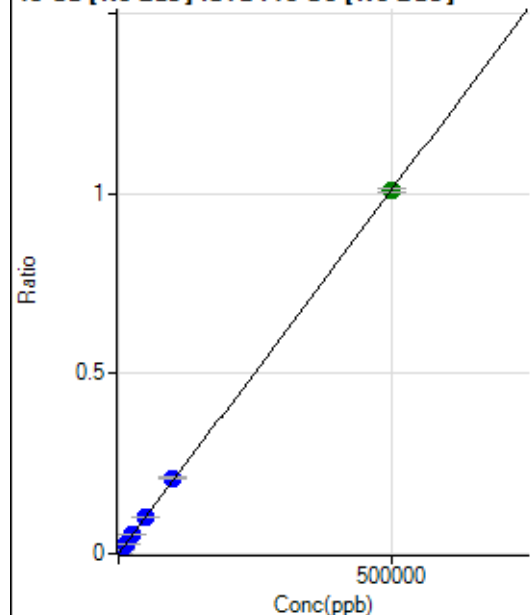
$$R = 0.9998$$

$$DL = 38.43$$

$$BEC = 630.1$$

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	646.19	0.0002	P	2.3
2	☐	500.000	477.618	3995.07	0.0011	P	2.9
3	☐	5000.000	5112.079	36636.03	0.0105	P	1.1
4	☐	12500.000	12646.513	92523.26	0.0257	P	1.8
5	☐	25000.000	25696.562	184764.41	0.0520	P	2.2
6	☐	50000.000	50670.342	375925.44	0.1024	P	0.5
7	☐	100000.00	104348.84	748653.63	0.2107	P	0.7
8	☐	500000.00	499023.60	3693045.22	1.0069	A	0.9

$$y = 2.0174\text{E-}006 * x + 1.8415\text{E-}004$$

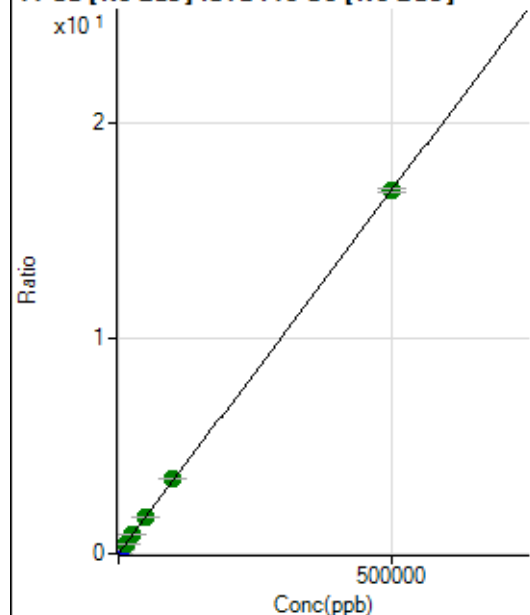
$$R = 1.0000$$

$$DL = 6.266$$

$$BEC = 91.28$$

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	29420.62	0.0084	P	1.3
2	☐	500.000	492.196	87078.32	0.0250	P	0.8
3	☐	5000.000	5188.331	640939.80	0.1837	P	1.4
4	☐	12500.000	12656.219	1569720.97	0.4359	A	1.8
5	☐	25000.000	25522.865	3092689.51	0.8706	A	0.6
6	☐	50000.000	49978.035	6228495.30	1.6968	A	0.9
7	☐	100000.00	102831.00	12372680.73	3.4822	A	1.4
8	☐	500000.00	499404.07	61902833.08	16.8793	A	1.0

$$y = 3.3782\text{E-}005 * x + 0.0084$$

$$R = 1.0000$$

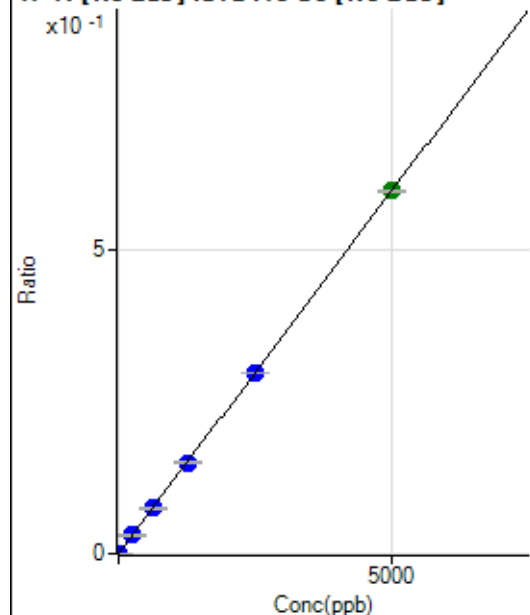
$$DL = 9.362$$

$$BEC = 248.2$$

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	461.13	0.0001	P	8.3
2	☐	5.000	4.780	2436.39	0.0007	P	14.4
3	☐	250.000	253.426	105756.00	0.0303	P	2.3
4	☐	625.000	623.219	267637.96	0.0743	P	1.9
5	☐	1250.000	1250.949	529494.92	0.1491	P	1.5
6	☐	2500.000	2492.258	1089780.30	0.2969	P	0.4
7	☐	5000.000	5003.685	2117342.86	0.5959	A	0.5
8	☐			691.70	0.0002	P	7.3

$$y = 1.1907\text{E-}004 * x + 1.3142\text{E-}004$$

$$R = 1.0000$$

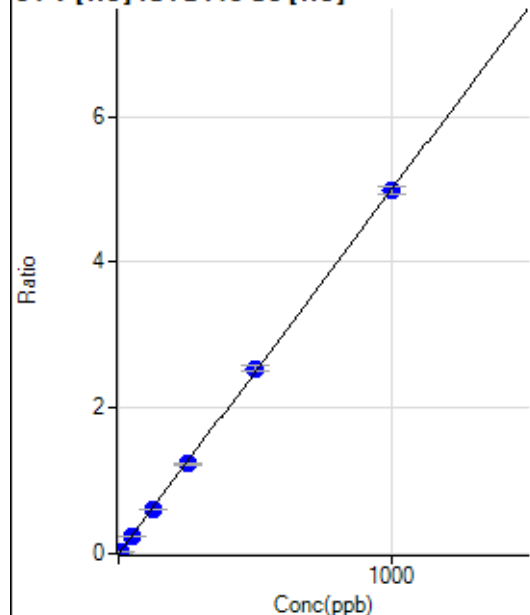
$$DL = 0.2733$$

$$BEC = 1.104$$

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	24.44	0.0001	P	22.4
2	☐	5.000	4.763	4275.12	0.0239	P	4.3
3	☐	50.000	47.977	43334.24	0.2397	P	1.0
4	☐	125.000	121.733	110807.00	0.6079	P	1.8
5	☐	250.000	246.858	220717.04	1.2326	P	1.2
6	☐	500.000	508.378	448372.31	2.5382	P	2.8
7	☐	1000.000	997.107	892417.77	4.9781	P	2.0
8	☐			130.01	0.0007	P	4.1

$$y = 0.0050 * x + 1.3628\text{E-}004$$

$$R = 0.9999$$

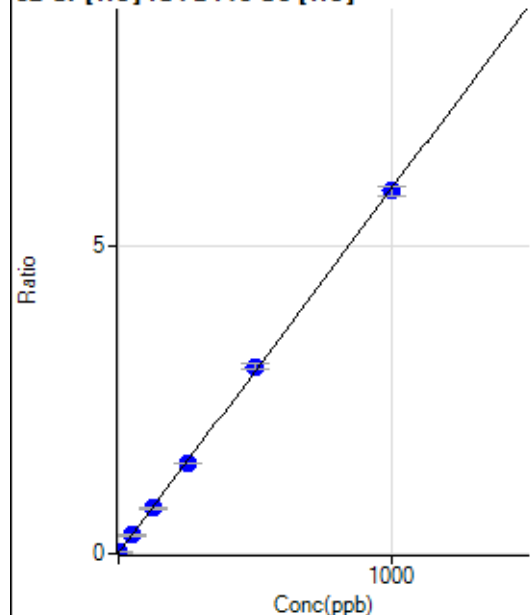
$$DL = 0.01837$$

$$BEC = 0.0273$$

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	920.04	0.0051	P	5.5
2	☐	2.000	1.868	2888.10	0.0162	P	2.6
3	☐	50.000	49.382	53703.60	0.2970	P	0.9
4	☐	125.000	123.220	133697.74	0.7335	P	1.7
5	☐	250.000	248.643	264107.83	1.4748	P	0.6
6	☐	500.000	512.825	536343.13	3.0364	P	3.1
7	☐	1000.000	994.180	1054238.32	5.8816	P	2.9
8	☐			3380.43	0.0189	P	1.0

$$y = 0.0059 * x + 0.0051$$

$$R = 0.9999$$

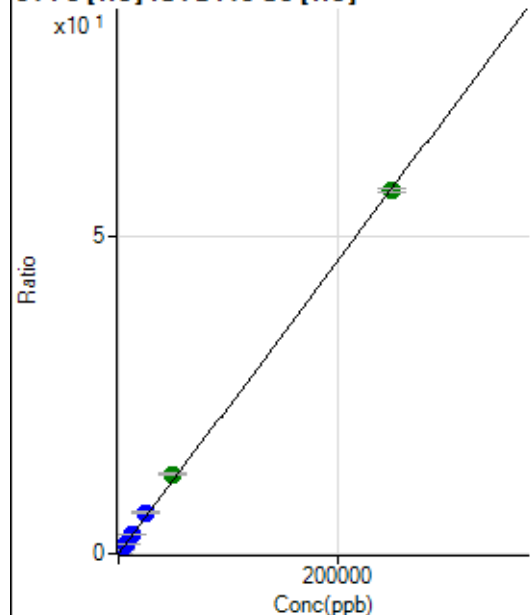
$$DL = 0.143$$

$$BEC = 0.8654$$

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	0.0026	P	12.7
2	☐	50.000	55.152	2726.24	0.0153	P	7.3
3	☐	2500.000	2710.007	112943.05	0.6246	P	2.0
4	☐	6250.000	6821.099	285871.93	1.5682	P	1.3
5	☐	12500.000	13666.546	562204.98	3.1394	P	0.6
6	☐	25000.000	28084.647	1139243.05	6.4487	P	2.5
7	☐	50000.000	54574.284	2245777.70	12.5288	A	2.7
8	☐	250000.00	248701.97	10217059.49	57.0861	A	1.0

$$y = 2.2953E-004 * x + 0.0026$$

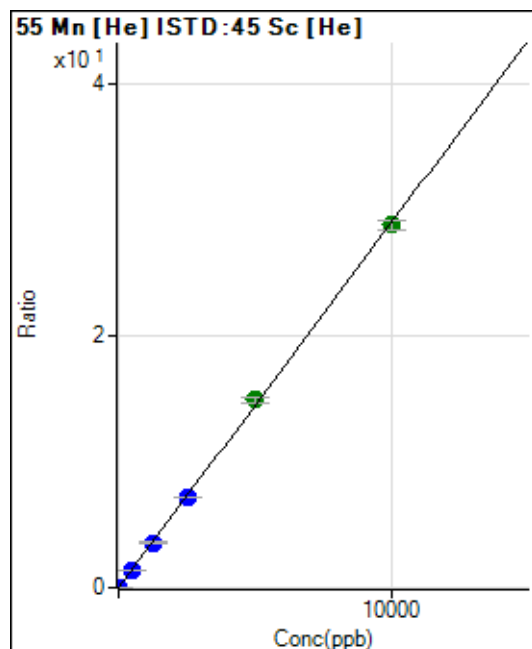
$$R = 0.9998$$

$$DL = 4.305$$

$$BEC = 11.31$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	101.11	0.0006	P	14.4
2	☐	1.000	0.988	613.35	0.0034	P	10.1
3	☐	500.000	493.672	258990.99	1.4323	P	1.1
4	☐	1250.000	1235.944	653526.54	3.5851	P	1.3
5	☐	2500.000	2483.628	1289987.36	7.2037	P	1.2
6	☐	5000.000	5140.198	2633373.52	14.9083	A	3.2
7	☐	10000.000	9936.067	5165548.99	28.8174	A	2.7
8	☐			3317.09	0.0185	P	3.2

$$y = 0.0029 * x + 5.6305E-004$$

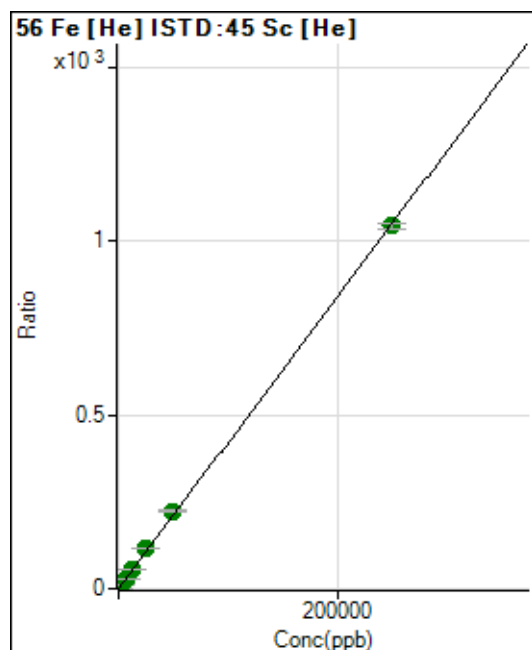
$$R = 0.9999$$

$$DL = 0.08401$$

$$BEC = 0.1941$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3080.01	0.0171	P	3.9
2	☐	50.000	51.959	41987.95	0.2349	P	2.2
3	☐	2500.000	2666.276	2023294.08	11.1900	A	1.8
4	☐	6250.000	6646.580	5080007.64	27.8692	A	2.2
5	☐	12500.000	13273.668	9964144.78	55.6397	A	0.3
6	☐	25000.000	27415.677	20299978.69	114.9009	A	2.2
7	☐	50000.000	53390.135	40108856.91	223.7454	A	2.3
8	☐	250000.00	249030.14	186743480.1	1,043.563	A	1.7

$$y = 0.0042 * x + 0.0171$$

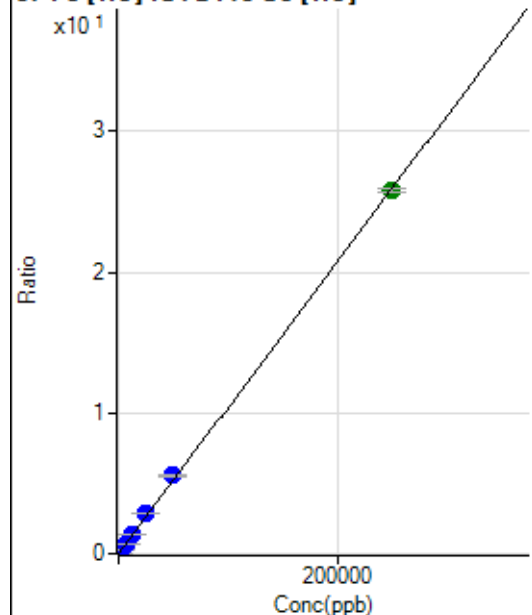
$$R = 0.9999$$

$$DL = 0.4757$$

$$BEC = 4.089$$

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	246.30	0.0014	P	3.4
2	☐	50.000	52.642	1220.45	0.0068	P	13.5
3	☐	2500.000	2634.554	49589.86	0.2742	P	0.2
4	☐	6250.000	6597.124	124811.35	0.6847	P	1.1
5	☐	12500.000	13386.320	248535.14	1.3879	P	0.9
6	☐	25000.000	27684.460	506800.05	2.8688	P	2.6
7	☐	50000.000	53689.715	997069.29	5.5623	P	2.5
8	☐	250000.00	248939.27	4614981.01	25.7855	A	1.1

$$y = 1.0358\text{E-}004 * x + 0.0014$$

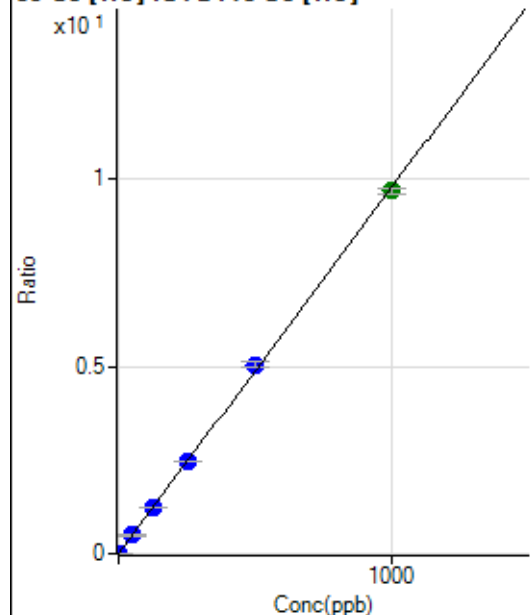
$$R = 0.9998$$

$$DL = 1.366$$

$$BEC = 13.23$$

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	56.67	0.0003	P	21.0
2	☐	1.000	0.960	1734.57	0.0097	P	5.3
3	☐	50.000	49.987	88451.27	0.4892	P	0.5
4	☐	125.000	125.711	224152.69	1.2297	P	2.1
5	☐	250.000	252.083	441511.44	2.4656	P	1.3
6	☐	500.000	515.957	891363.83	5.0461	P	3.1
7	☐	1000.000	991.413	1738205.18	9.6958	A	1.9
8	☐			2806.97	0.0157	P	4.3

$$y = 0.0098 * x + 3.1523\text{E-}004$$

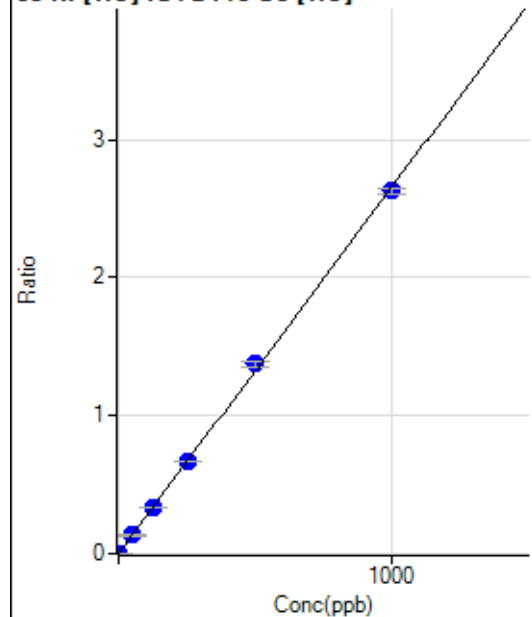
$$R = 0.9998$$

$$DL = 0.02033$$

$$BEC = 0.03223$$

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	128.89	0.0007	P	11.5
2	☐	1.000	1.082	641.13	0.0036	P	2.5
3	☐	50.000	49.806	24000.30	0.1327	P	1.2
4	☐	125.000	124.295	60186.67	0.3302	P	1.7
5	☐	250.000	251.788	119648.22	0.6681	P	0.6
6	☐	500.000	517.742	242534.21	1.3731	P	3.3
7	☐	1000.000	990.780	470927.13	2.6269	P	1.9
8	☐			970.04	0.0054	P	9.1

$$y = 0.0027 * x + 7.1760E-004$$

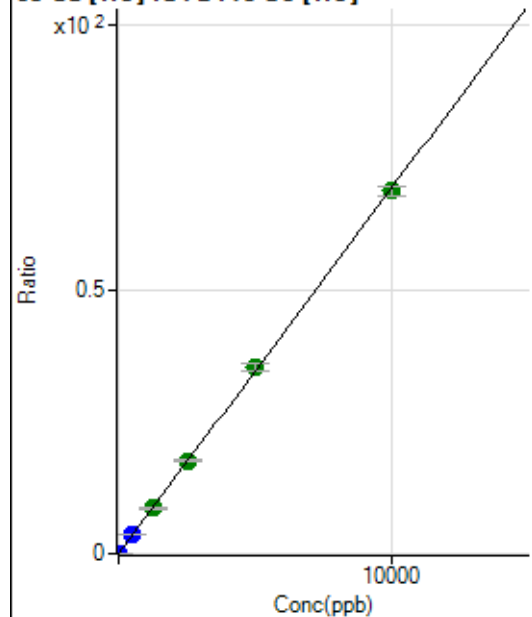
$$R = 0.9998$$

$$DL = 0.09305$$

$$BEC = 0.2707$$

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	623.35	0.0035	P	8.4
2	☐	2.000	2.097	3211.51	0.0180	P	3.1
3	☐	500.000	504.602	631340.62	3.4916	P	0.9
4	☐	1250.000	1238.148	1560856.02	8.5623	A	1.5
5	☐	2500.000	2551.395	3159098.35	17.6402	A	0.1
6	☐	5000.000	5118.787	6250230.81	35.3875	A	3.7
7	☐	10000.000	9929.009	12303346.62	68.6385	A	2.7
8	☐			4329.59	0.0242	P	4.6

$$y = 0.0069 * x + 0.0035$$

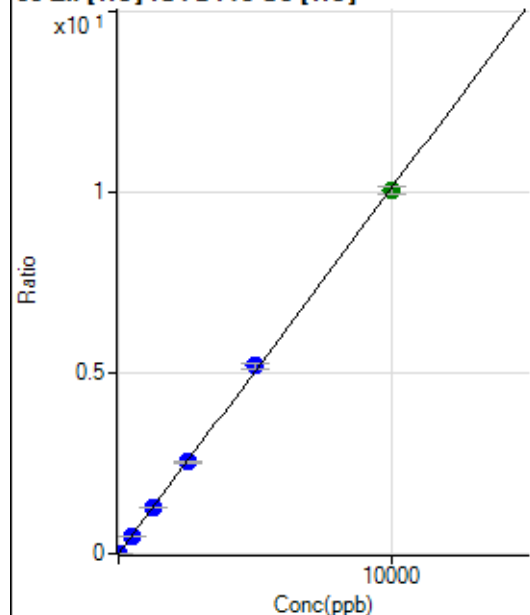
$$R = 0.9999$$

$$DL = 0.1256$$

$$BEC = 0.5014$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0005	P	21.2
2	☐	2.000	2.047	462.24	0.0026	P	5.1
3	☐	500.000	497.777	90927.89	0.5029	P	0.5
4	☐	1250.000	1244.916	229113.49	1.2568	P	1.1
5	☐	2500.000	2509.787	453643.83	2.5333	P	1.4
6	☐	5000.000	5140.473	916507.93	5.1881	P	2.7
7	☐	10000.000	9928.063	1796146.33	10.0195	A	2.2
8	☐			3878.34	0.0217	P	2.6

$$y = 0.0010 * x + 5.2021E-004$$

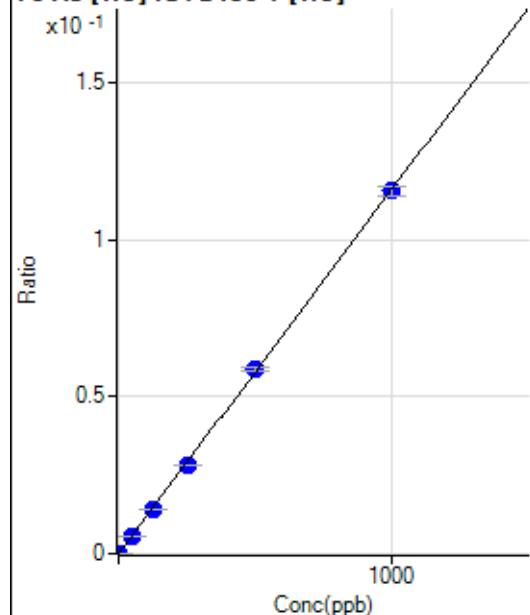
$$R = 0.9999$$

$$DL = 0.3283$$

$$BEC = 0.5155$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.33	0.0000	P	8.3
2	☐	1.000	0.953	136.68	0.0001	P	2.9
3	☐	50.000	48.257	6710.61	0.0056	P	2.2
4	☐	125.000	121.925	17104.38	0.0141	P	0.9
5	☐	250.000	244.952	33825.33	0.0284	P	0.7
6	☐	500.000	508.698	69045.75	0.0590	P	1.7
7	☐	1000.000	997.384	136651.16	0.1157	P	2.9
8	☐			56.34	0.0000	P	18.7

$$y = 1.1596E-004 * x + 5.3574E-006$$

$$R = 0.9999$$

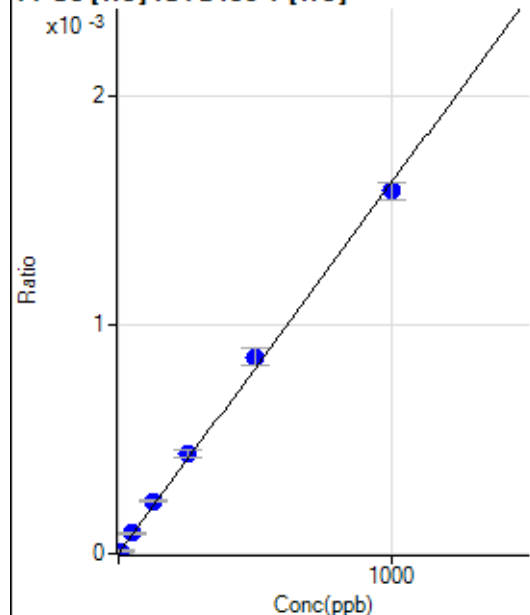
$$DL = 0.01148$$

$$BEC = 0.0462$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	6.967	14.44	0.0000	P	53.2
3	☐	50.000	54.915	107.78	0.0001	P	11.9
4	☐	125.000	140.553	276.67	0.0002	P	2.7
5	☐	250.000	269.905	522.24	0.0004	P	7.2
6	☐	500.000	529.721	1005.60	0.0009	P	9.2
7	☐	1000.000	977.963	1873.48	0.0016	P	4.8
8	☐			1.11	0.0000	P	173.2

$$y = 1.6209\text{E-}006 * x + 9.5601\text{E-}007$$

$$R = 0.9991$$

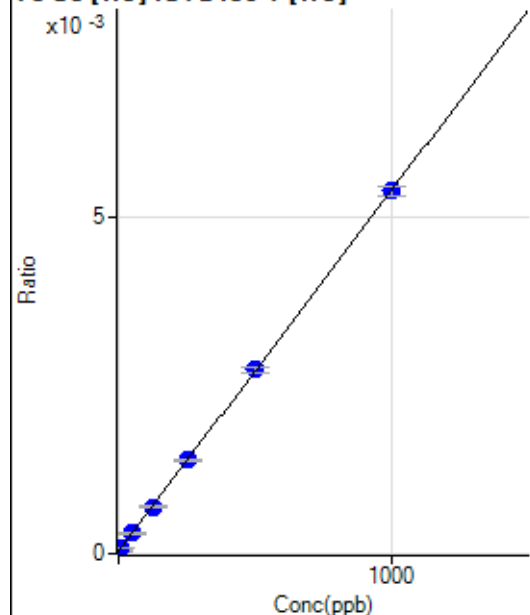
$$DL = 3.065$$

$$BEC = 0.5898$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.67	0.0000	P	19.1
2	☐	5.000	5.798	87.34	0.0001	P	2.4
3	☐	50.000	49.980	373.04	0.0003	P	7.8
4	☐	125.000	120.732	836.11	0.0007	P	4.7
5	☐	250.000	252.036	1662.94	0.0014	P	1.9
6	☐	500.000	503.297	3214.70	0.0027	P	3.1
7	☐	1000.000	998.373	6387.43	0.0054	P	2.7
8	☐			54.68	0.0000	P	12.6

$$y = 5.3715\text{E-}006 * x + 4.2945\text{E-}005$$

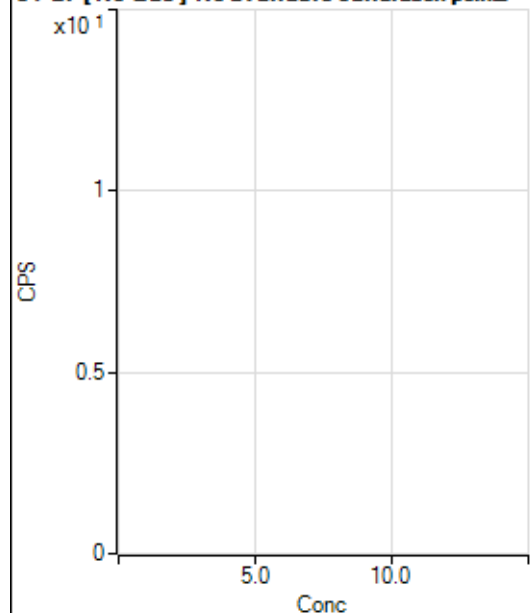
$$R = 1.0000$$

$$DL = 4.585$$

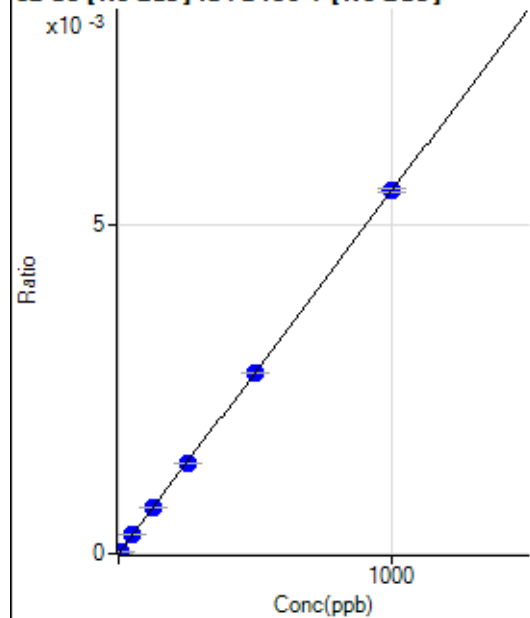
$$BEC = 7.995$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2642.98		P	4.9
2	☐			2649.65		P	7.6
3	☐			2522.84		P	6.7
4	☐			2586.24		P	2.6
5	☐			2419.38		P	2.7
6	☐			2305.90		P	4.6
7	☐			2693.04		P	4.2
8	☐			2606.27		P	10.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-23.83	0.0000	P	-150.
2	☐	5.000	5.310	239.31	0.0000	P	11.9
3	☐	50.000	51.866	2541.30	0.0003	P	1.4
4	☐	125.000	125.416	6288.81	0.0007	P	1.0
5	☐	250.000	250.123	12550.66	0.0014	P	0.3
6	☐	500.000	498.315	25781.55	0.0027	P	0.8
7	☐	1000.000	1000.665	50845.41	0.0055	P	1.3
8	☐			-21.44	0.0000	P	-165.

$$y = 5.5068E-006 * x - 2.6339E-006$$

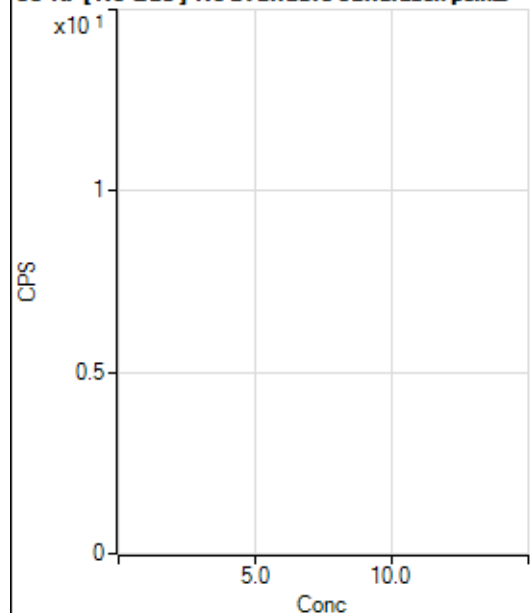
$$R = 1.0000$$

$$DL = 2.159$$

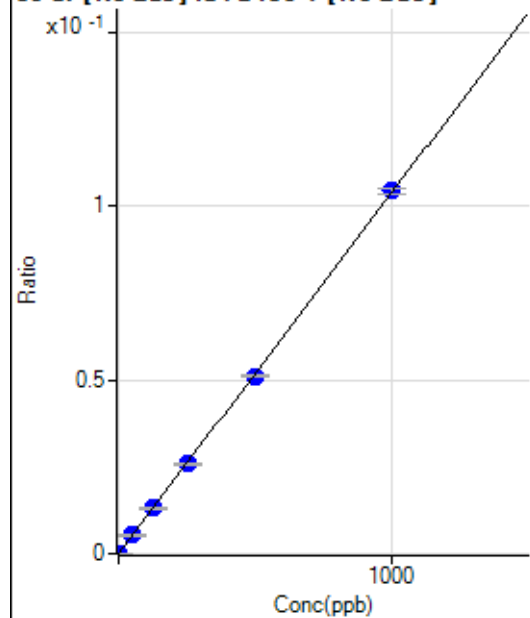
$$BEC = -0.4783$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			485.57		P	7.7
2	☐			438.90		P	2.7
3	☐			446.68		P	13.0
4	☐			436.68		P	7.7
5	☐			472.24		P	3.2
6	☐			415.57		P	0.5
7	☐			475.57		P	7.0
8	☐			503.35		P	5.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	783.38	0.0001	P	5.1
2	☐	1.000	0.707	1439.00	0.0002	P	8.6
3	☐	50.000	49.960	47344.84	0.0053	P	2.1
4	☐	125.000	124.620	119065.30	0.0130	P	0.9
5	☐	250.000	247.889	235765.62	0.0258	P	0.7
6	☐	500.000	490.735	479960.66	0.0510	P	1.2
7	☐	1000.000	1005.210	964256.14	0.1045	P	1.5
8	☐			5748.57	0.0006	P	7.2

$$y = 1.0383E-004 * x + 8.6510E-005$$

$$R = 0.9999$$

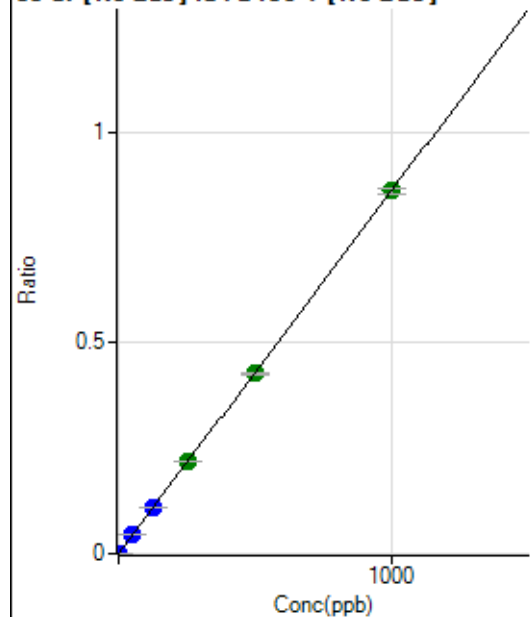
$$DL = 0.127$$

$$BEC = 0.8332$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	86.12	0.0000	P	24.1
2	☐	1.000	0.967	7580.06	0.0008	P	4.5
3	☐	50.000	51.024	394431.65	0.0439	P	0.5
4	☐	125.000	127.943	1006731.36	0.1101	P	0.9
5	☐	250.000	254.167	1997448.15	0.2188	A	0.9
6	☐	500.000	497.506	4027179.34	0.4282	A	0.9
7	☐	1000.000	999.786	7943683.69	0.8606	A	1.9
8	☐			42523.93	0.0046	P	0.7

$$y = 8.6076\text{E-}004 * x + 9.5066\text{E-}006$$

$$R = 1.0000$$

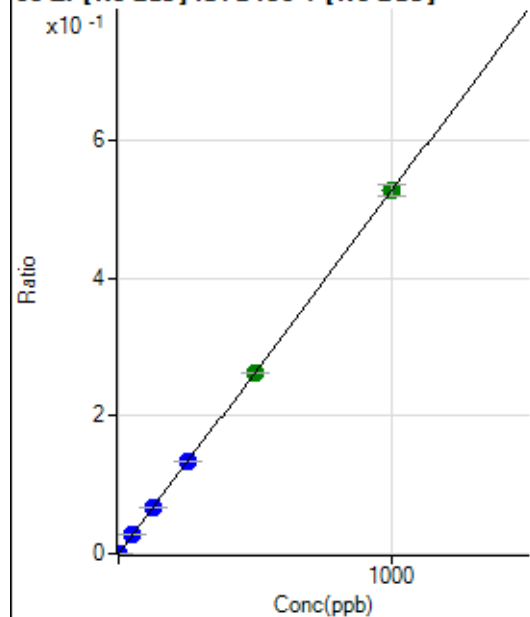
$$DL = 0.007996$$

$$BEC = 0.01104$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	325.01	0.0000	P	8.9
2	☐	1.000	0.981	4989.93	0.0006	P	6.2
3	☐	50.000	51.059	242179.60	0.0270	P	1.1
4	☐	125.000	127.850	616826.26	0.0675	P	1.8
5	☐	250.000	254.623	1226649.27	0.1344	P	1.3
6	☐	500.000	496.743	2464910.69	0.2621	A	0.1
7	☐	1000.000	1000.064	4869380.19	0.5276	A	3.3
8	☐			1683.48	0.0002	P	10.0

$$y = 5.2758\text{E-}004 * x + 3.5890\text{E-}005$$

$$R = 1.0000$$

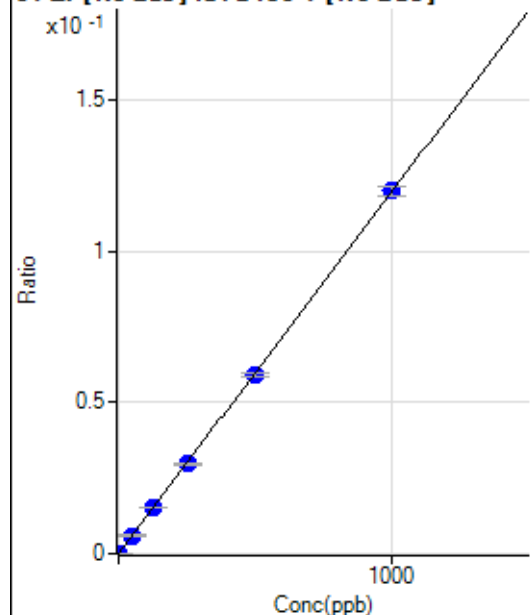
$$DL = 0.01812$$

$$BEC = 0.06803$$

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	97.23	0.0000	P	44.1
2	☐	1.000	0.868	1030.63	0.0001	P	13.0
3	☐	50.000	50.040	53809.94	0.0060	P	1.8
4	☐	125.000	126.212	138031.93	0.0151	P	1.3
5	☐	250.000	248.266	271084.34	0.0297	P	1.3
6	☐	500.000	493.617	555062.63	0.0590	P	1.9
7	☐	1000.000	1003.472	1107543.52	0.1200	P	2.3
8	☐			400.02	0.0000	P	27.4

$$y = 1.1956\text{E-}004 * x + 1.0739\text{E-}005$$

$$R = 1.0000$$

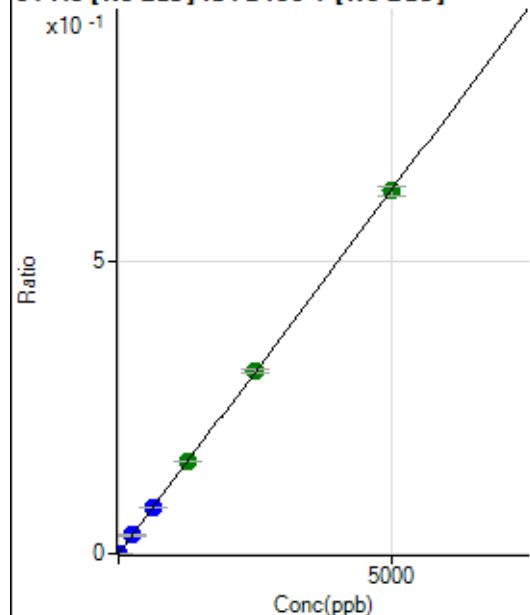
$$DL = 0.1188$$

$$BEC = 0.08982$$

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	100.00	0.0000	P	21.7
2	☐	5.000	4.845	5523.48	0.0006	P	2.5
3	☐	250.000	252.774	282119.90	0.0314	P	2.0
4	☐	625.000	634.991	721432.00	0.0789	P	1.0
5	☐	1250.000	1262.155	1432111.63	0.1569	A	0.5
6	☐	2500.000	2511.094	2934459.18	0.3121	A	2.5
7	☐	5000.000	4990.027	5723922.26	0.6202	A	2.6
8	☐			1683.48	0.0002	P	4.9

$$y = 1.2428\text{E-}004 * x + 1.1038\text{E-}005$$

$$R = 1.0000$$

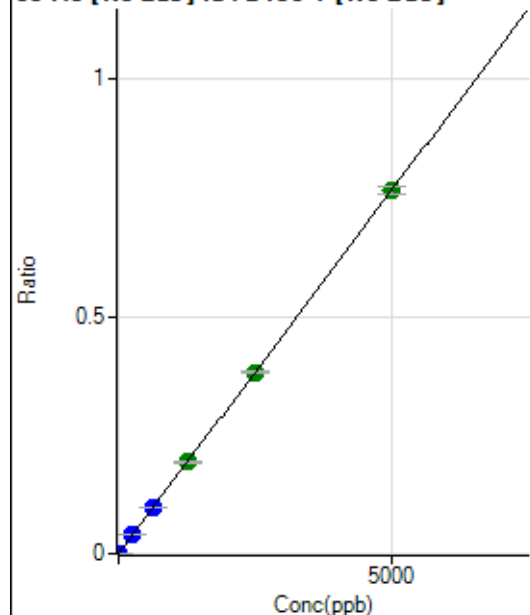
$$DL = 0.05792$$

$$BEC = 0.08882$$

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	25.00	0.0000	P	33.6
2	☐	5.000	4.927	6810.20	0.0008	P	2.2
3	☐	250.000	254.444	349431.22	0.0389	P	1.6
4	☐	625.000	635.023	887819.00	0.0971	P	1.1
5	☐	1250.000	1264.935	1766334.72	0.1935	A	1.2
6	☐	2500.000	2498.318	3593226.73	0.3821	A	1.3
7	☐	5000.000	4995.632	7052759.27	0.7641	A	2.1
8	☐			2072.44	0.0002	P	4.5

$$y = 1.5295\text{E-}004 * x + 2.7625\text{E-}006$$

$$R = 1.0000$$

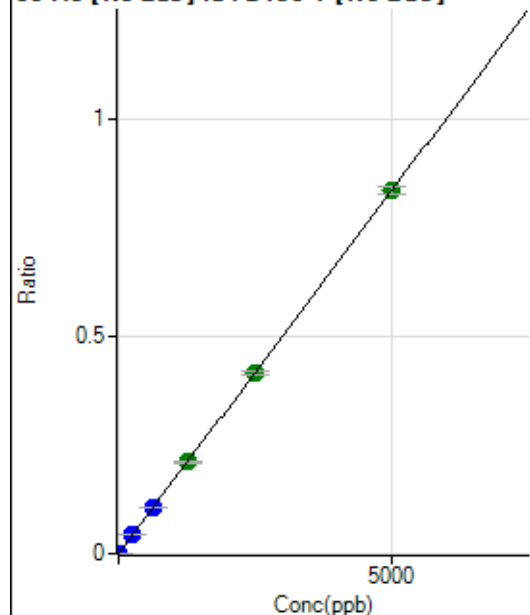
$$DL = 0.01821$$

$$BEC = 0.01806$$

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	91.67	0.0000	P	15.8
2	☐	5.000	4.903	7468.89	0.0008	P	1.3
3	☐	250.000	253.808	380915.31	0.0424	P	0.5
4	☐	625.000	641.827	980439.96	0.1073	P	1.1
5	☐	1250.000	1265.517	1930718.47	0.2115	A	1.5
6	☐	2500.000	2487.607	3909000.70	0.4157	A	1.6
7	☐	5000.000	5000.024	7712147.39	0.8355	A	2.2
8	☐			2947.63	0.0003	P	5.6

$$y = 1.6711\text{E-}004 * x + 1.0123\text{E-}005$$

$$R = 1.0000$$

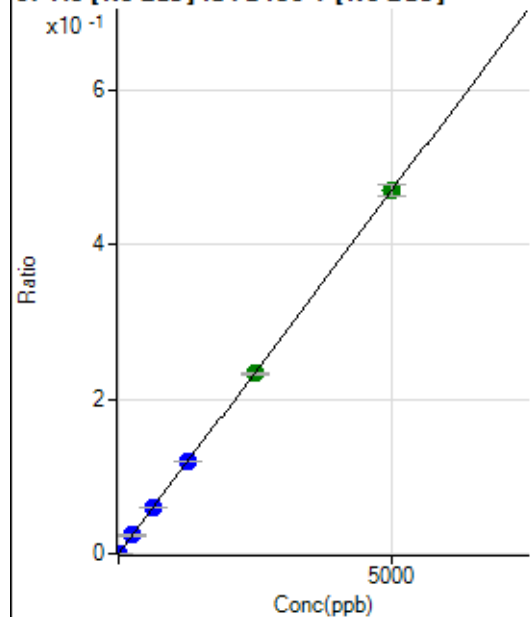
$$DL = 0.02864$$

$$BEC = 0.06058$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	86.6
2	☐	5.000	4.855	4120.17	0.0005	P	5.2
3	☐	250.000	252.144	212304.57	0.0236	P	0.4
4	☐	625.000	640.181	548692.43	0.0600	P	1.3
5	☐	1250.000	1272.653	1089373.50	0.1193	P	1.2
6	☐	2500.000	2485.802	2191776.81	0.2331	A	1.3
7	☐	5000.000	4999.431	4326235.99	0.4688	A	3.1
8	☐			1319.55	0.0001	P	12.7

$$y = 9.3763\text{E-}005 * x + 2.4500\text{E-}006$$

$$R = 1.0000$$

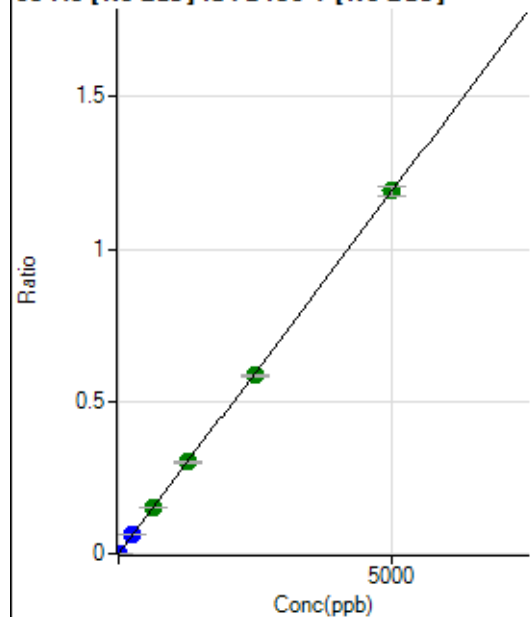
$$DL = 0.06789$$

$$BEC = 0.02613$$

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	19.44	0.0000	P	65.5
2	☐	5.000	4.800	10292.95	0.0011	P	3.5
3	☐	250.000	256.369	547226.64	0.0610	P	2.0
4	☐	625.000	639.962	1390809.94	0.1522	A	1.0
5	☐	1250.000	1265.743	2747244.96	0.3009	A	2.7
6	☐	2500.000	2465.483	5512428.47	0.5862	A	1.0
7	☐	5000.000	5011.134	10996964.74	1.1914	A	2.3
8	☐			3253.25	0.0004	P	11.5

$$y = 2.3776\text{E-}004 * x + 2.1481\text{E-}006$$

$$R = 1.0000$$

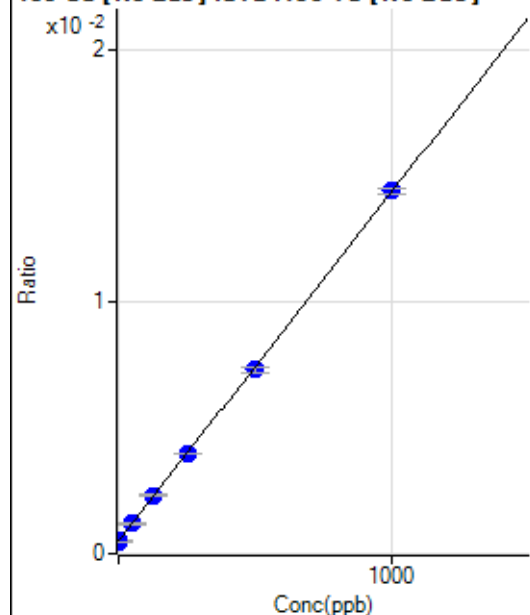
$$DL = 0.01775$$

$$BEC = 0.009035$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2405.83	0.0005	P	3.4
2	☐	1.000	-1.018	2375.27	0.0005	P	2.2
3	☐	50.000	50.731	5690.24	0.0012	P	8.8
4	☐	125.000	130.232	11210.40	0.0023	P	2.7
5	☐	250.000	251.595	19539.30	0.0040	P	0.7
6	☐	500.000	490.646	36852.79	0.0073	P	3.0
7	☐	1000.000	1003.589	71103.15	0.0144	P	1.4
8	☐			2530.87	0.0005	P	7.1

$$y = 1.3840\text{E-}005 * x + 5.0024\text{E-}004$$

$$R = 0.9999$$

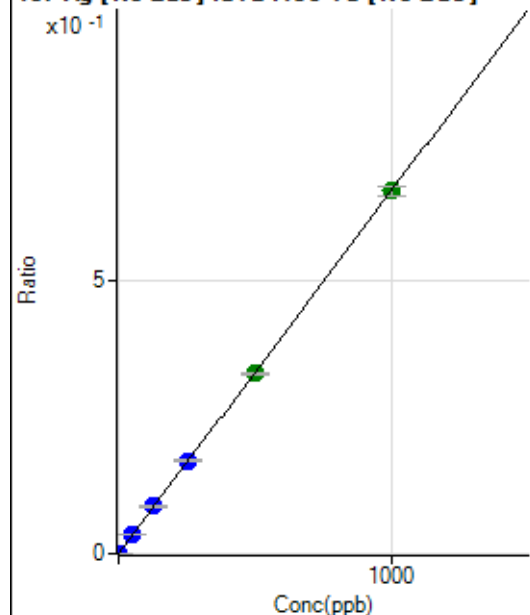
$$DL = 3.645$$

$$BEC = 36.14$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.45	0.0000	P	36.3
2	☐	1.000	0.968	3206.02	0.0007	P	5.3
3	☐	50.000	52.032	163292.03	0.0345	P	0.6
4	☐	125.000	129.798	419112.24	0.0861	P	1.3
5	☐	250.000	256.380	834076.25	0.1700	P	1.1
6	☐	500.000	496.516	1664254.00	0.3292	A	1.4
7	☐	1000.000	999.445	3273931.65	0.6627	A	2.7
8	☐			1608.47	0.0003	P	5.8

$$y = 6.6305\text{E-}004 * x + 1.4446\text{E-}005$$

$$R = 1.0000$$

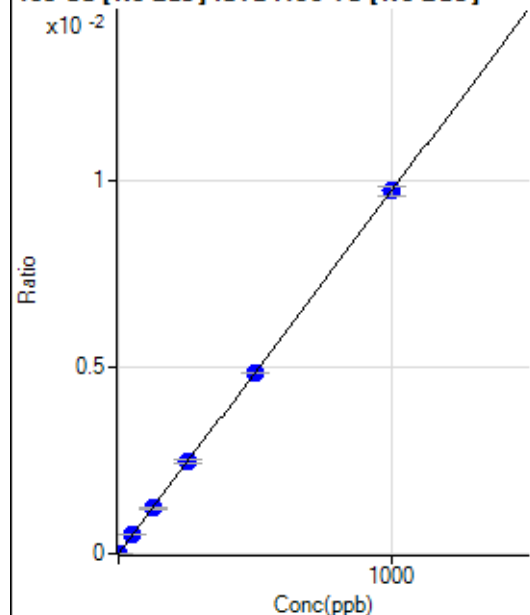
$$DL = 0.02372$$

$$BEC = 0.02179$$

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	13.89	0.0000	P	68.6
2	☐	1.000	1.342	77.78	0.0000	P	3.7
3	☐	50.000	51.620	2386.35	0.0005	P	4.6
4	☐	125.000	125.387	5945.80	0.0012	P	3.6
5	☐	250.000	254.883	12165.24	0.0025	P	3.9
6	☐	500.000	496.946	24425.92	0.0048	P	0.2
7	☐	1000.000	1000.176	48030.50	0.0097	P	2.8
8	☐			50.00	0.0000	P	42.7

$$y = 9.7171\text{E-}006 * x + 2.8809\text{E-}006$$

$$R = 1.0000$$

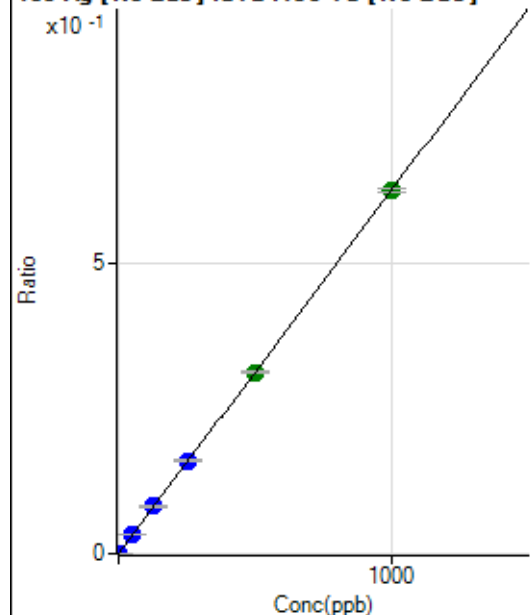
$$DL = 0.6105$$

$$BEC = 0.2965$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	62.5
2	☐	1.000	0.910	2822.59	0.0006	P	3.4
3	☐	50.000	51.964	153557.82	0.0325	P	1.2
4	☐	125.000	129.632	394181.92	0.0810	P	1.5
5	☐	250.000	256.272	785184.39	0.1600	P	0.9
6	☐	500.000	499.126	1575660.52	0.3117	A	1.1
7	☐	1000.000	998.192	3079876.63	0.6233	A	1.2
8	☐			1558.47	0.0003	P	13.8

$$y = 6.2445\text{E-}004 * x + 9.3207\text{E-}006$$

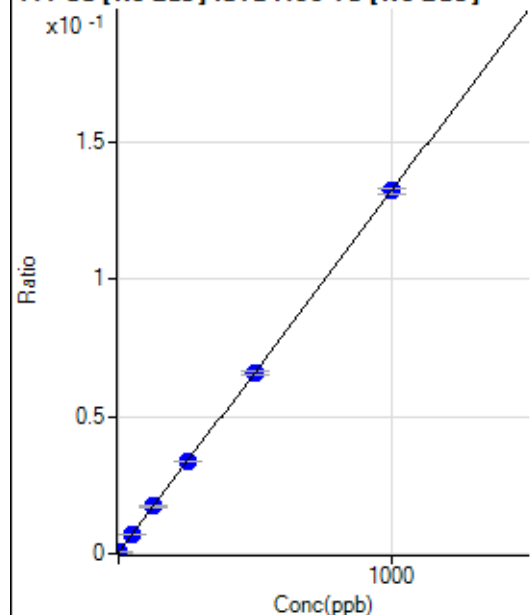
$$R = 1.0000$$

$$DL = 0.028$$

$$BEC = 0.01493$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1679.92	0.0003	P	3.1
2	☐	1.000	0.907	2291.60	0.0005	P	4.4
3	☐	50.000	52.560	34453.02	0.0073	P	1.5
4	☐	125.000	128.613	84294.60	0.0173	P	2.2
5	☐	250.000	253.992	166084.78	0.0339	P	0.6
6	☐	500.000	497.022	333172.57	0.0659	P	1.2
7	☐	1000.000	999.911	653388.98	0.1322	P	1.5
8	☐			2008.83	0.0004	P	5.0

$$y = 1.3190\text{E-}004 * x + 3.4931\text{E-}004$$

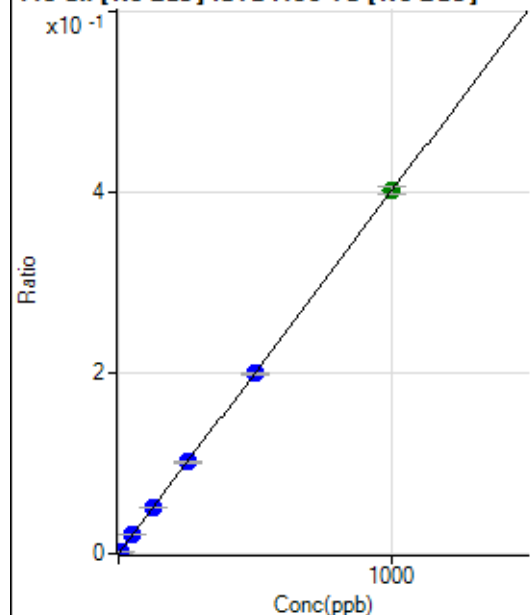
$$R = 1.0000$$

$$DL = 0.2491$$

$$BEC = 2.648$$

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	186.12	0.0000	P	12.1
2	☐	5.000	4.651	9286.72	0.0019	P	2.0
3	☐	50.000	51.571	97884.97	0.0207	P	0.6
4	☐	125.000	127.823	249400.12	0.0512	P	1.8
5	☐	250.000	252.318	495902.82	0.1011	P	1.0
6	☐	500.000	496.339	1004910.26	0.1988	P	0.6
7	☐	1000.000	1000.821	1980232.10	0.4008	A	2.0
8	☐			711.15	0.0001	P	5.8

$$y = 4.0044\text{E-}004 * x + 3.8658\text{E-}005$$

$$R = 1.0000$$

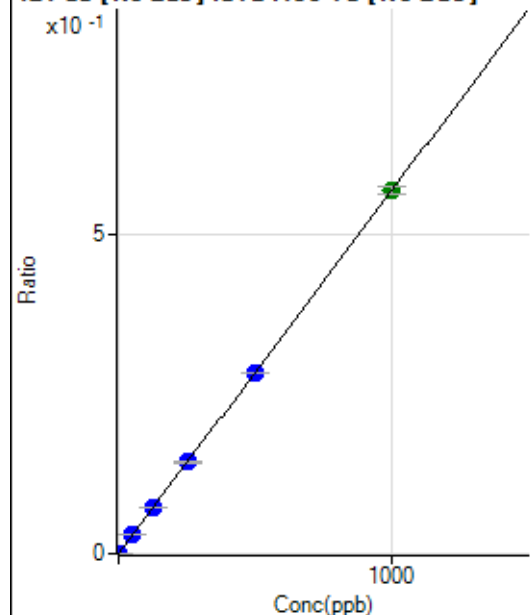
$$DL = 0.03499$$

$$BEC = 0.09654$$

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	13.89	0.0000	P	124.6
2	☐	2.000	1.869	5209.46	0.0011	P	1.9
3	☐	50.000	51.408	138410.32	0.0293	P	0.7
4	☐	125.000	126.050	349236.65	0.0717	P	2.0
5	☐	250.000	252.087	703786.72	0.1435	P	1.9
6	☐	500.000	498.566	1434189.18	0.2837	P	0.7
7	☐	1000.000	999.994	2811385.48	0.5690	A	2.1
8	☐			1744.62	0.0003	P	4.3

$$y = 5.6905\text{E-}004 * x + 2.8458\text{E-}006$$

$$R = 1.0000$$

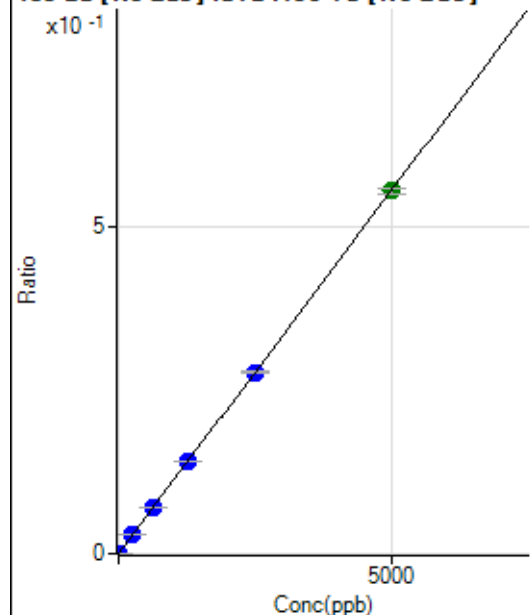
$$DL = 0.01869$$

$$BEC = 0.005001$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.0
2	☐	10.000	9.604	5215.04	0.0011	P	6.4
3	☐	250.000	258.104	135529.04	0.0286	P	1.3
4	☐	625.000	636.636	344051.06	0.0707	P	1.2
5	☐	1250.000	1268.797	690874.08	0.1408	P	1.5
6	☐	2500.000	2499.246	1402214.84	0.2774	P	0.8
7	☐	5000.000	4993.819	2738382.09	0.5543	A	1.9
8	☐			4876.02	0.0010	P	3.0

$$y = 1.1099\text{E-}004 * x + 1.7394\text{E-}006$$

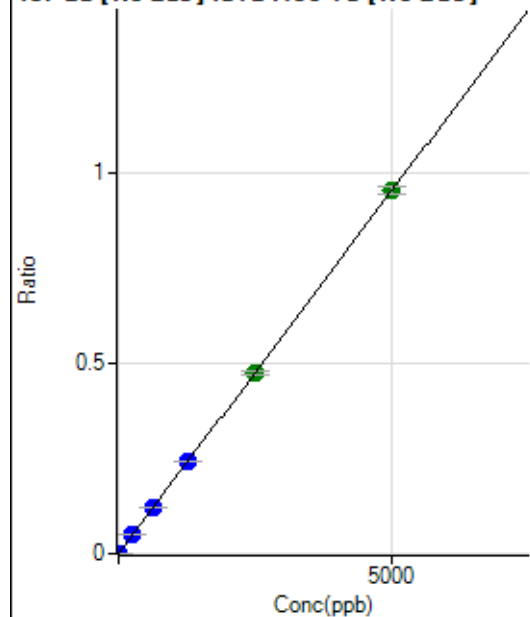
$$R = 1.0000$$

$$DL = 0.04654$$

$$BEC = 0.01567$$

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	25.00	0.0000	P	58.4
2	☐	10.000	9.603	8975.46	0.0018	P	5.1
3	☐	250.000	259.491	234303.42	0.0495	P	2.0
4	☐	625.000	639.243	594014.92	0.1220	P	1.0
5	☐	1250.000	1267.598	1186832.79	0.2419	P	0.4
6	☐	2500.000	2480.864	2393117.20	0.4734	A	2.1
7	☐	5000.000	5002.914	4716951.50	0.9547	A	2.1
8	☐			8728.02	0.0017	P	4.7

$$y = 1.9083E-004 * x + 5.2301E-006$$

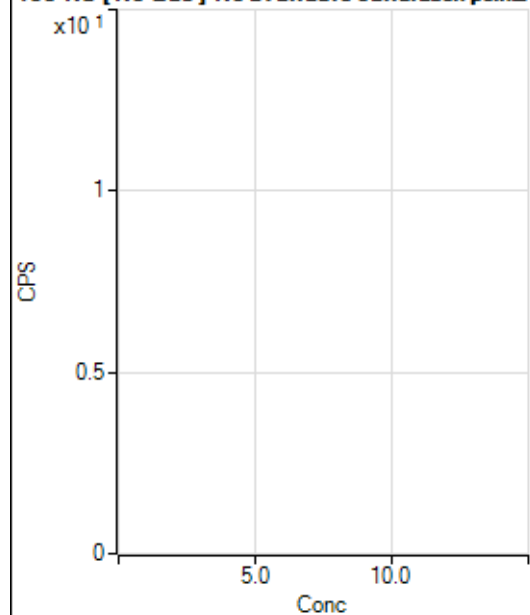
$$R = 1.0000$$

$$DL = 0.04804$$

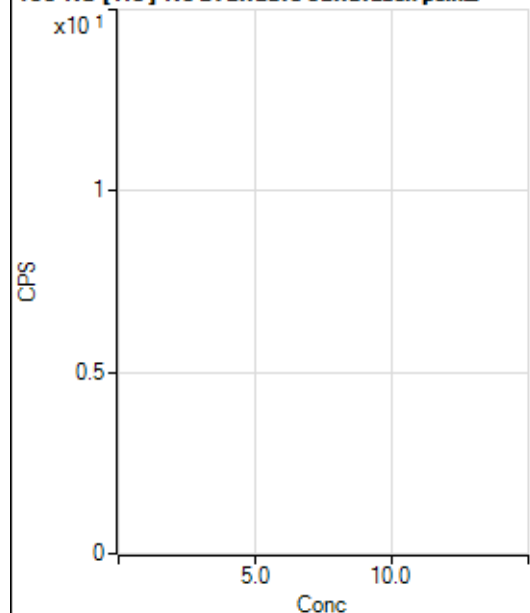
$$BEC = 0.02741$$

Weight: <None>

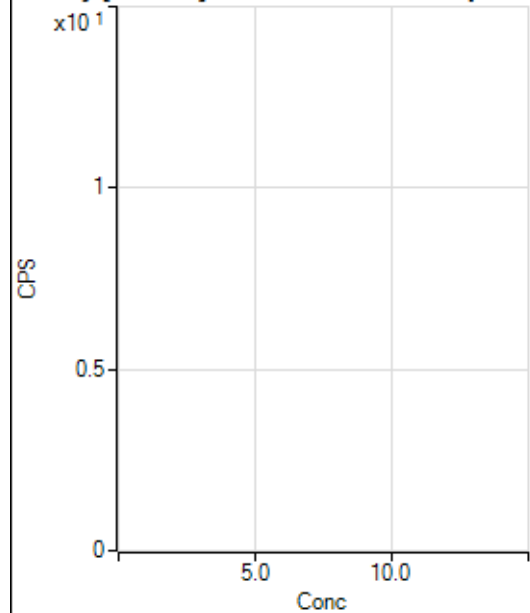
Min Conc: 0

150 Nd [No Gas] No available calibration points

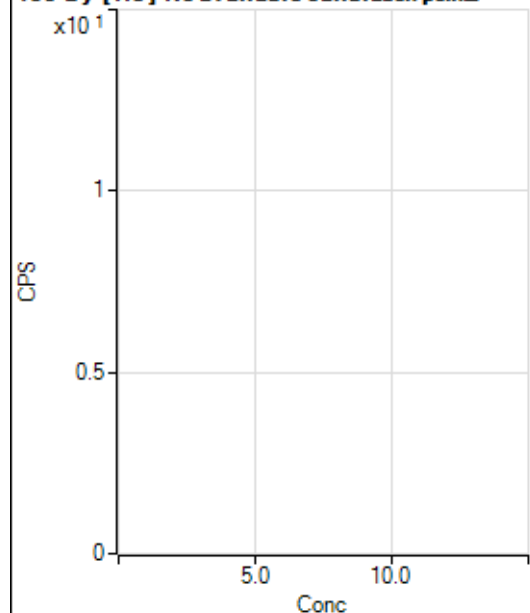
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	91.7
2	☐			4.45		P	86.6
3	☐			8.89		P	43.3
4	☐			24.45		P	68.6
5	☐			40.00		P	33.3
6	☐			55.56		P	36.7
7	☐			111.11		P	9.2
8	☐			6.67		P	100.0

150 Nd [He] No available calibration points

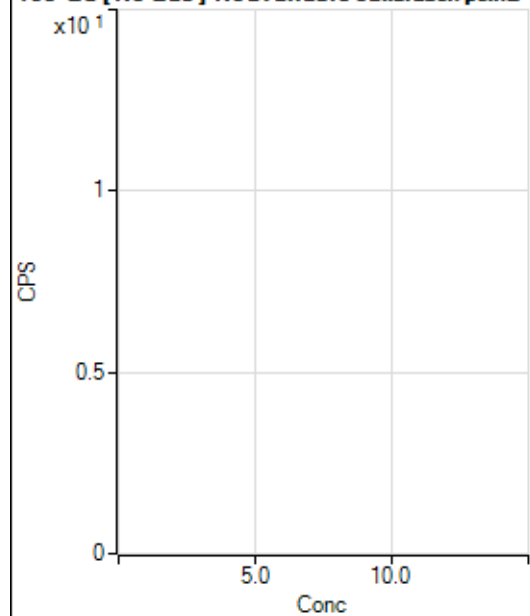
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			1.11		P	173.2
4	☐			3.33		P	100.1
5	☐			3.33		P	0.0
6	☐			2.22		P	173.2
7	☐			5.55		P	124.9
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

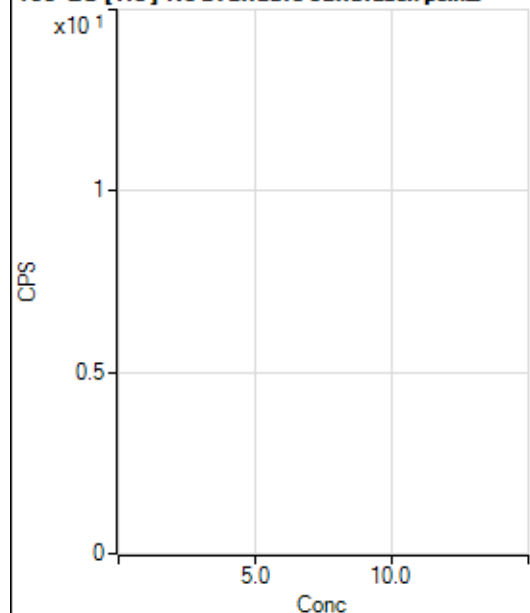
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			16.67		P	50.0
3	☐			27.78		P	45.8
4	☐			13.89		P	34.7
5	☐			27.78		P	69.3
6	☐			36.11		P	70.5
7	☐			61.11		P	20.8
8	☐			136.12		P	24.7

156 Dy [He] No available calibration points

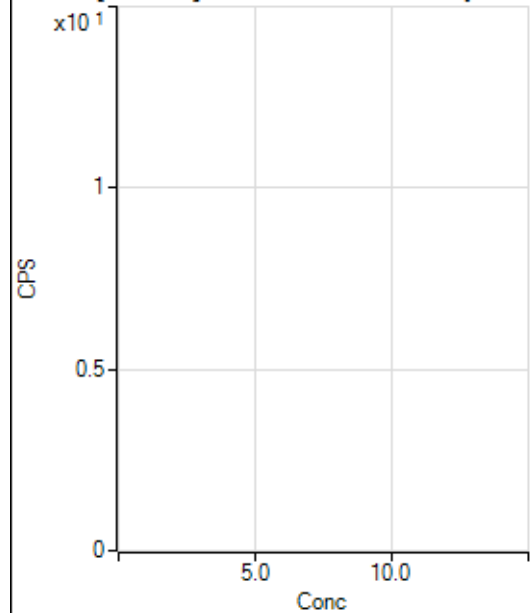
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.6
2	☐			6.67		P	50.0
3	☐			1.11		P	173.2
4	☐			4.44		P	43.4
5	☐			11.11		P	62.5
6	☐			12.22		P	56.8
7	☐			36.67		P	47.2
8	☐			96.67		P	21.5

160 Gd [No Gas] Noavailable calibration poin_

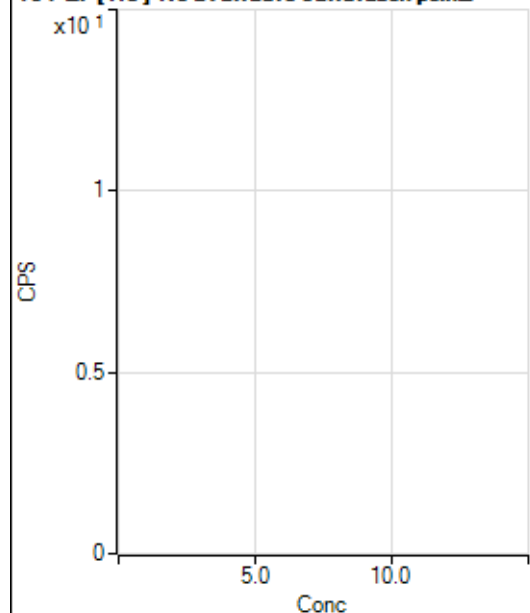
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	66.8
2	☐			44.45		P	47.2
3	☐			72.23		P	43.7
4	☐			61.11		P	41.7
5	☐			86.11		P	36.6
6	☐			83.34		P	40.0
7	☐			75.00		P	40.1
8	☐			227.78		P	25.7

160 Gd [He] No available calibration points

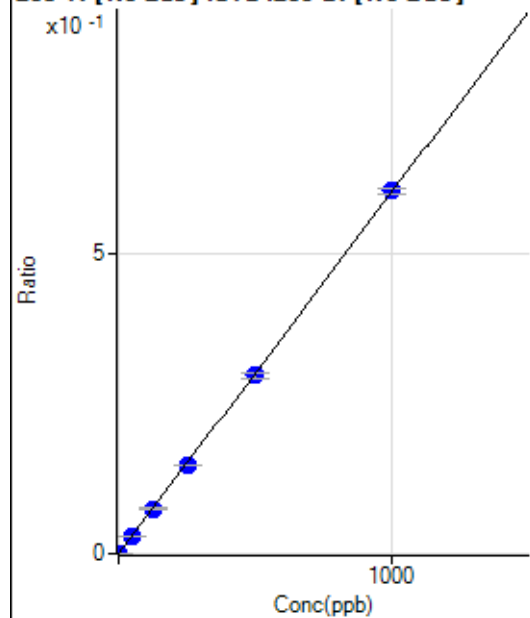
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.55		P	27.1
2	☐			15.56		P	32.7
3	☐			20.00		P	44.1
4	☐			25.56		P	30.1
5	☐			28.89		P	24.0
6	☐			38.89		P	34.6
7	☐			58.89		P	21.4
8	☐			115.56		P	13.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	78.1
2	☐			16.67		P	NaN
3	☐			22.22		P	114.6
4	☐			25.00		P	100.0
5	☐			27.78		P	45.8
6	☐			38.89		P	49.5
7	☐			33.34		P	43.3
8	☐			44.45		P	39.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.0
2	☐			13.33		P	25.0
3	☐			8.89		P	21.6
4	☐			11.11		P	45.8
5	☐			11.11		P	34.6
6	☐			17.78		P	57.3
7	☐			13.33		P	25.0
8	☐			25.56		P	49.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	43.6
2	☐	1.000	0.911	1358.44	0.0006	P	6.4
3	☐	50.000	49.132	71944.31	0.0296	P	1.4
4	☐	125.000	122.728	184655.12	0.0739	P	4.2
5	☐	250.000	245.909	371273.44	0.1481	P	0.8
6	☐	500.000	493.487	756919.04	0.2972	P	3.1
7	☐	1000.000	1004.607	1500663.42	0.6049	P	1.3
8	☐			1005.62	0.0004	P	4.6

$$y = 6.0214\text{E-}004 * x + 9.0173\text{E-}006$$

$$R = 1.0000$$

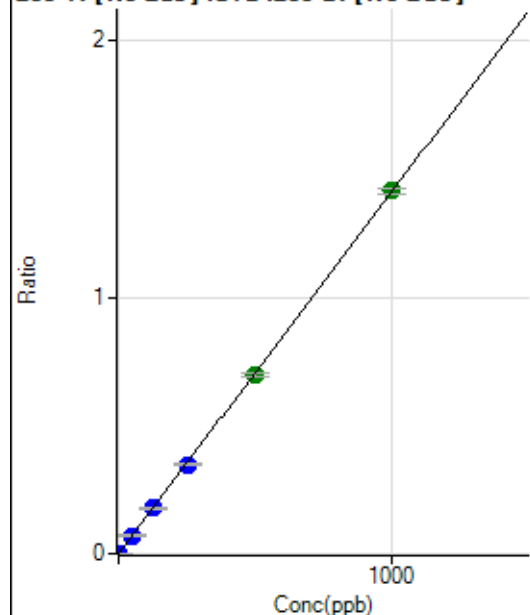
$$DL = 0.01957$$

$$BEC = 0.01498$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.56	0.0000	P	42.0
2	☐	1.000	0.940	3261.61	0.0013	P	2.5
3	☐	50.000	50.424	172778.63	0.0711	P	1.7
4	☐	125.000	125.680	442562.78	0.1771	P	3.8
5	☐	250.000	246.859	872214.53	0.3479	P	1.5
6	☐	500.000	494.368	1774863.43	0.6967	A	1.3
7	☐	1000.000	1003.495	3508261.93	1.4142	A	1.3
8	☐			1886.30	0.0008	P	9.9

$$y = 0.0014 * x + 1.2409E-005$$

$$R = 1.0000$$

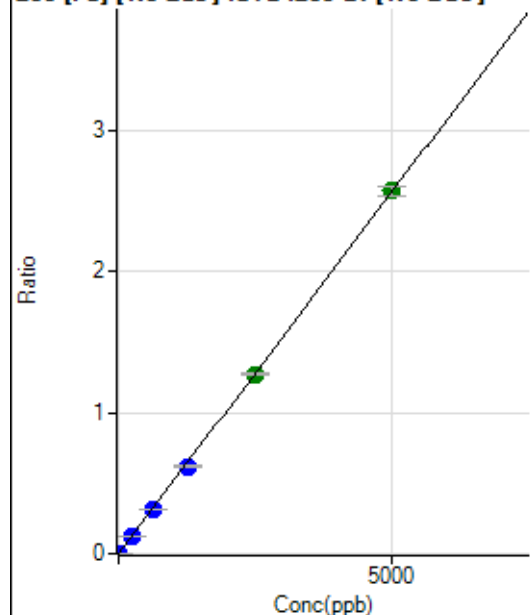
$$DL = 0.0111$$

$$BEC = 0.008806$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	107.41	0.0000	P	8.0
2	☐	1.000	0.952	1294.53	0.0005	P	3.0
3	☐	250.000	242.168	301360.00	0.1240	P	2.3
4	☐	625.000	609.333	779471.56	0.3119	P	2.0
5	☐	1250.000	1207.952	1549876.08	0.6182	P	1.3
6	☐	2500.000	2479.130	3232085.52	1.2687	A	1.2
7	☐	5000.000	5023.297	6376039.73	2.5706	A	2.7
8	☐			1579.76	0.0006	P	6.2

$$y = 5.1173E-004 * x + 4.3553E-005$$

$$R = 0.9999$$

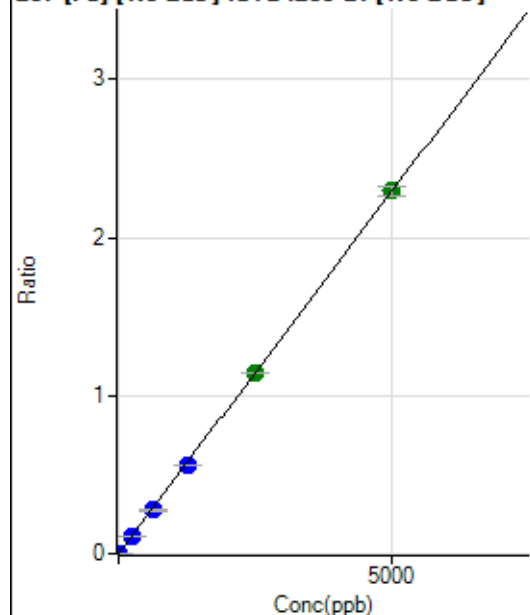
$$DL = 0.0204$$

$$BEC = 0.08511$$

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	131.49	0.0001	P	11.2
2	☐	1.000	0.847	1075.99	0.0004	P	4.8
3	☐	250.000	244.243	271957.24	0.1119	P	1.8
4	☐	625.000	603.927	691043.45	0.2765	P	2.9
5	☐	1250.000	1215.281	1395070.10	0.5564	P	0.3
6	☐	2500.000	2495.701	2910915.92	1.1426	A	0.6
7	☐	5000.000	5013.751	5693353.19	2.2953	A	2.3
8	☐			1270.45	0.0005	P	9.6

$$y = 4.5779\text{E-}004 * x + 5.3338\text{E-}005$$

$$R = 1.0000$$

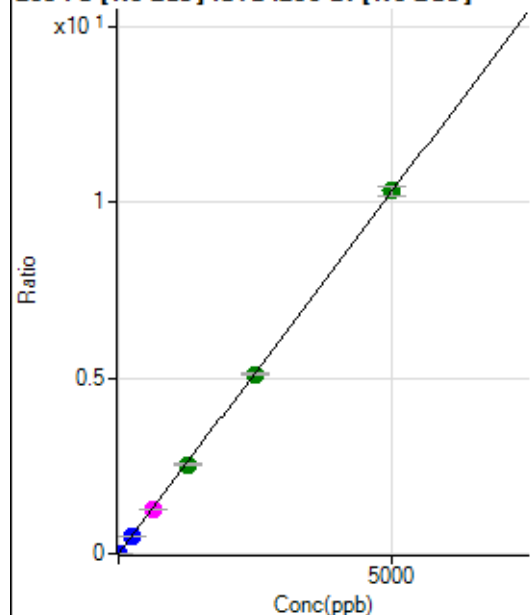
$$DL = 0.0392$$

$$BEC = 0.1165$$

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	490.76	0.0002	P	9.8
2	☐	1.000	0.901	5002.32	0.0021	P	3.1
3	☐	250.000	245.976	1229818.68	0.5059	P	1.6
4	☐	625.000	611.399	3141880.38	1.2571	M	2.2
5	☐	1250.000	1233.318	6357136.70	2.5356	A	1.1
6	☐	2500.000	2479.851	12988388.11	5.0982	A	0.9
7	☐	5000.000	5016.146	25576812.44	10.3122	A	2.8
8	☐			6126.62	0.0025	P	2.6

$$y = 0.0021 * x + 1.9899\text{E-}004$$

$$R = 1.0000$$

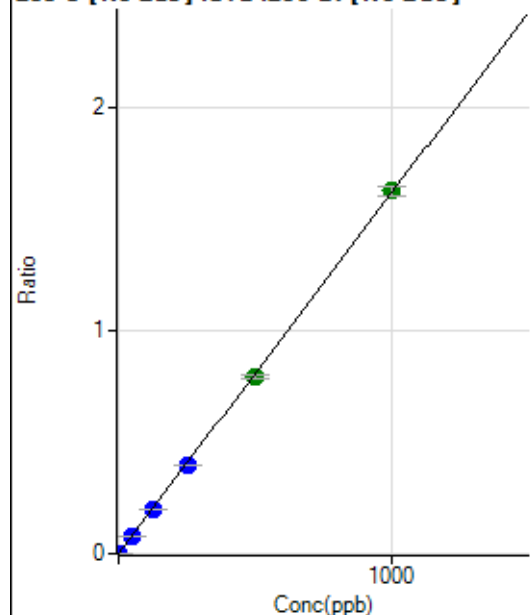
$$DL = 0.02843$$

$$BEC = 0.0968$$

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	13.89	0.0000	P	35.1
2	☐	1.000	0.895	3547.80	0.0015	P	6.6
3	☐	50.000	49.474	194846.29	0.0802	P	2.4
4	☐	125.000	122.234	494876.96	0.1980	P	2.7
5	☐	250.000	245.413	996765.40	0.3976	P	1.1
6	☐	500.000	491.657	2028968.88	0.7965	A	1.7
7	☐	1000.000	1005.691	4041017.37	1.6292	A	2.4
8	☐			522.25	0.0002	P	3.2

$$y = 0.0016 * x + 5.6402E-006$$

$$R = 0.9999$$

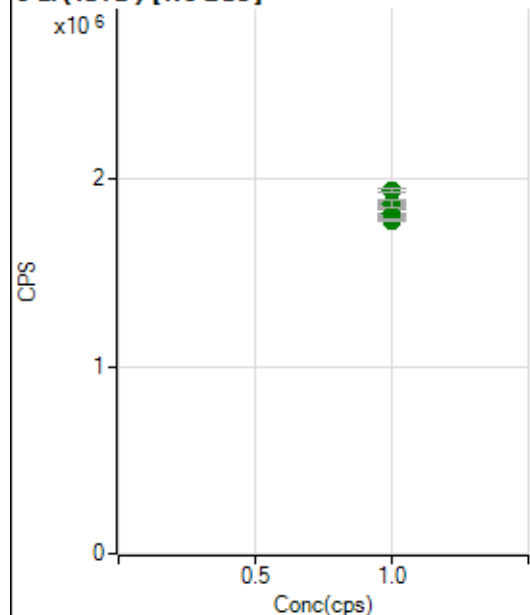
$$DL = 0.003668$$

$$BEC = 0.003482$$

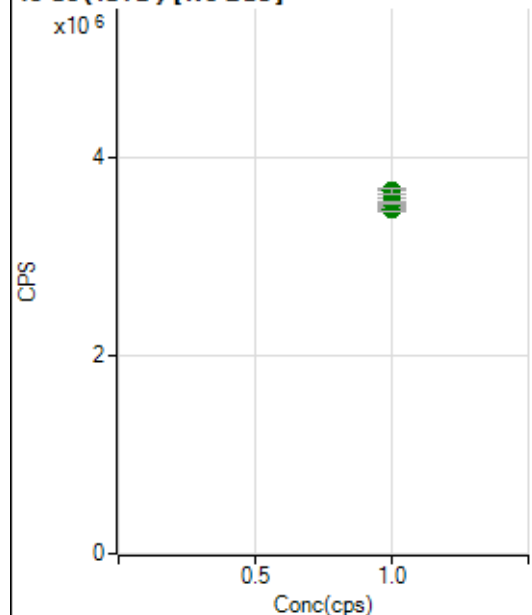
Weight: <None>

Min Conc: 0

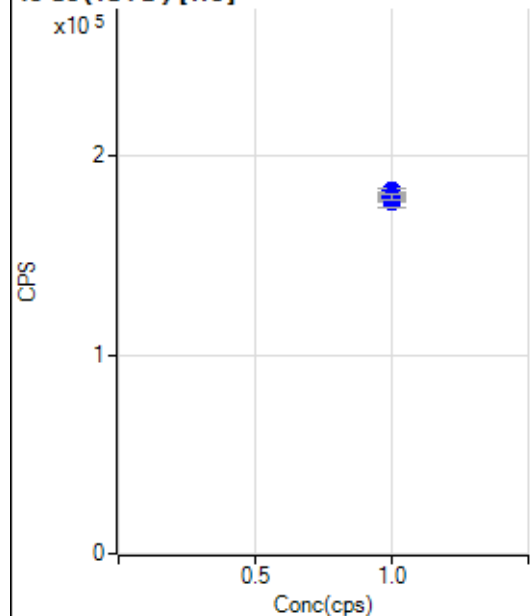
6 Li (ISTD) [No Gas]



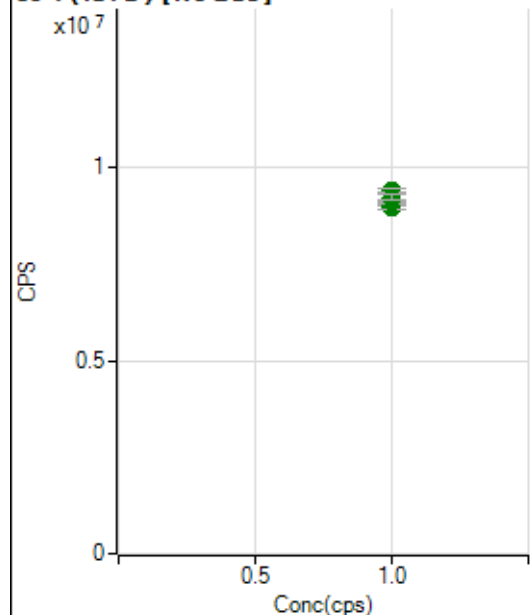
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1810167.55		A	0.7
2	☐	1.000		1819640.39		A	2.2
3	☐	1.000		1775978.06		A	0.7
4	☐	1.000		1849349.84		A	1.8
5	☐	1.000		1844774.69		A	0.8
6	☐	1.000		1866790.95		A	0.9
7	☐	1.000		1864121.30		A	2.4
8	☐	1.000		1935560.39		A	1.1

45 Sc (ISTD) [No Gas]

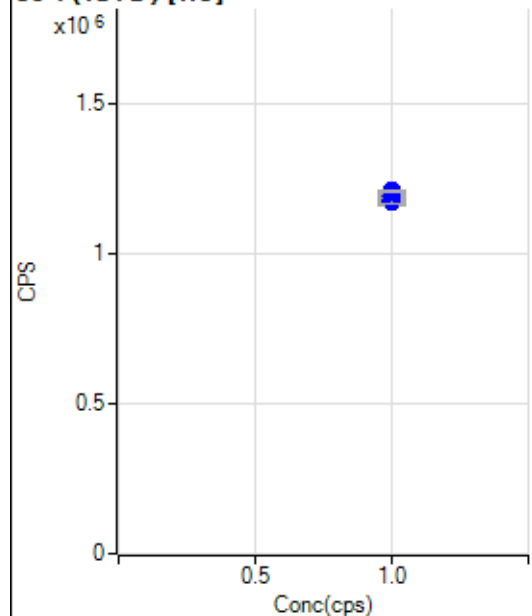
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3508480.95		A	1.0
2	☐	1.000		3481462.62		A	1.2
3	☐	1.000		3490236.72		A	1.2
4	☐	1.000		3601375.47		A	2.2
5	☐	1.000		3552633.49		A	2.3
6	☐	1.000		3670845.26		A	0.1
7	☐	1.000		3553156.54		A	0.2
8	☐	1.000		3667684.01		A	1.2

45 Sc (ISTD) [He]

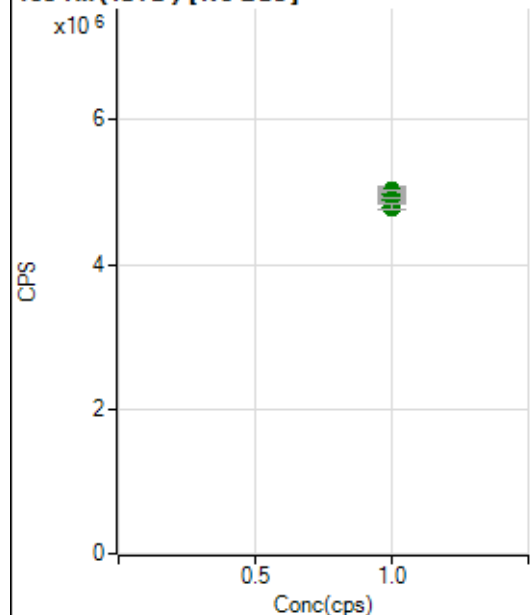
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		179766.50		P	1.5
2	☐	1.000		178768.51		P	0.8
3	☐	1.000		180823.54		P	0.6
4	☐	1.000		182305.97		P	1.0
5	☐	1.000		179084.65		P	0.8
6	☐	1.000		176741.61		P	2.7
7	☐	1.000		179332.61		P	2.7
8	☐	1.000		178976.83		P	1.5

89 Y (ISTD) [No Gas]

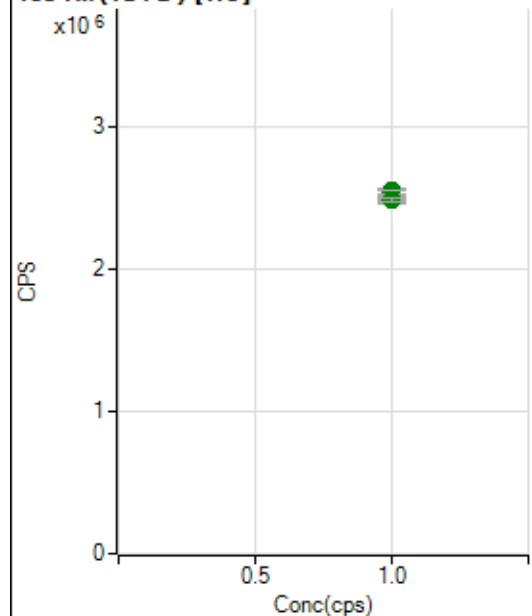
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9055924.31		A	0.3
2	☐	1.000		9005209.45		A	1.9
3	☐	1.000		8979484.45		A	1.8
4	☐	1.000		9141263.89		A	1.2
5	☐	1.000		9129530.49		A	0.7
6	☐	1.000		9404249.37		A	1.0
7	☐	1.000		9233074.59		A	2.3
8	☐	1.000		9230960.28		A	1.4

89 Y (ISTD) [He]

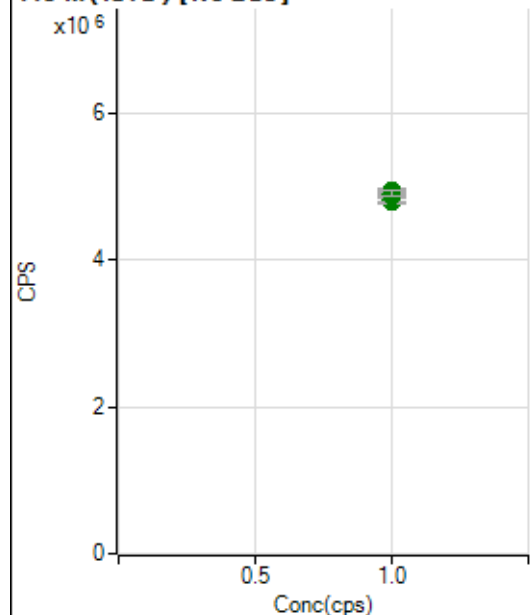
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1181723.87		P	1.5
2	☐	1.000		1178962.72		P	0.9
3	☐	1.000		1198143.45		P	0.5
4	☐	1.000		1209386.66		P	0.5
5	☐	1.000		1190702.93		P	0.9
6	☐	1.000		1170677.82		P	1.8
7	☐	1.000		1182212.38		P	3.0
8	☐	1.000		1208272.97		P	0.7

103 Rh (ISTD) [No Gas]

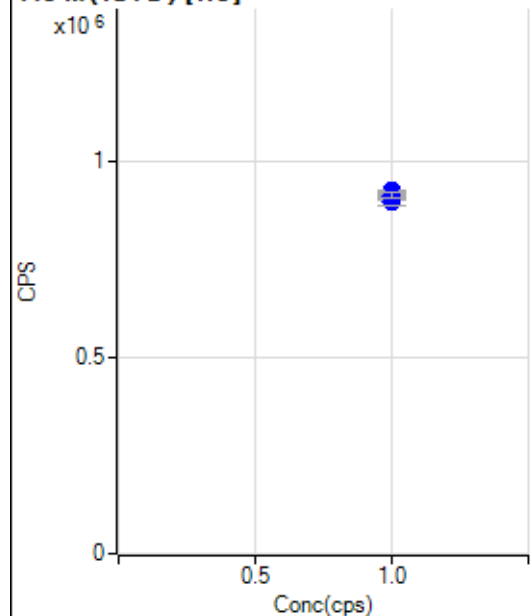
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4960539.30		A	0.5
2	☐	1.000		4971500.37		A	2.9
3	☐	1.000		4890758.92		A	0.9
4	☐	1.000		5017205.84		A	2.8
5	☐	1.000		4983177.32		A	1.2
6	☐	1.000		5006530.97		A	0.5
7	☐	1.000		4896748.76		A	1.4
8	☐	1.000		4796314.52		A	1.5

103 Rh (ISTD) [He]

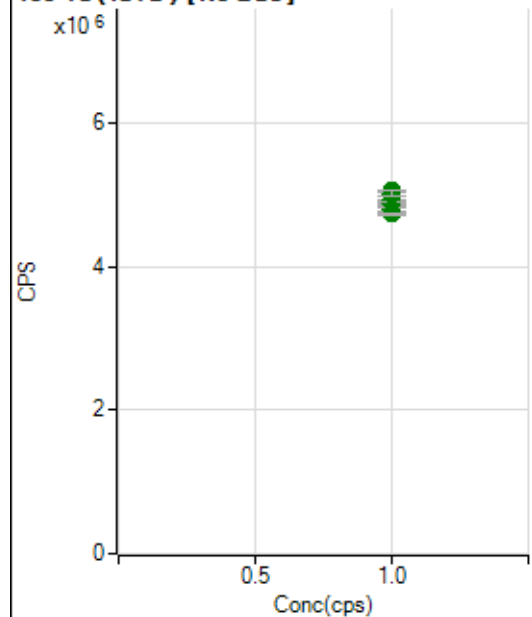
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2521912.03		A	0.9
2	☐	1.000		2505494.69		A	1.1
3	☐	1.000		2540111.27		A	1.5
4	☐	1.000		2549053.05		A	1.5
5	☐	1.000		2540483.38		A	1.5
6	☐	1.000		2486443.75		A	2.6
7	☐	1.000		2490807.53		A	3.1
8	☐	1.000		2482170.22		A	1.1

115 In (ISTD) [No Gas]

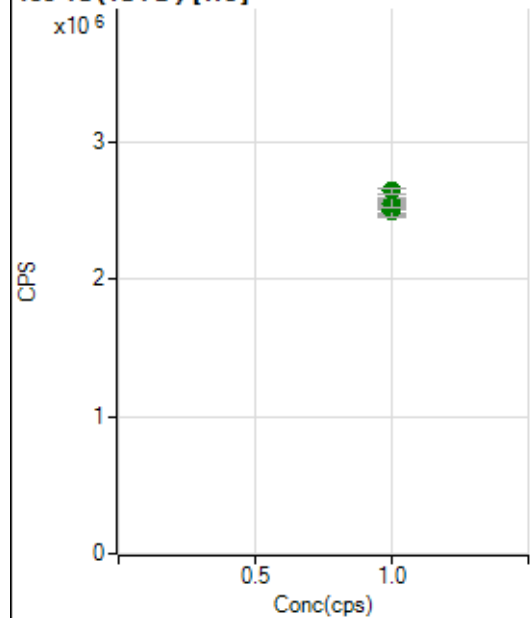
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4822725.53		A	0.9
2	☐	1.000		4879317.48		A	1.3
3	☐	1.000		4782552.07		A	0.6
4	☐	1.000		4930640.51		A	1.4
5	☐	1.000		4871620.96		A	0.4
6	☐	1.000		4936698.05		A	0.5
7	☐	1.000		4895583.42		A	1.5
8	☐	1.000		4904678.53		A	2.0

115 In (ISTD) [He]

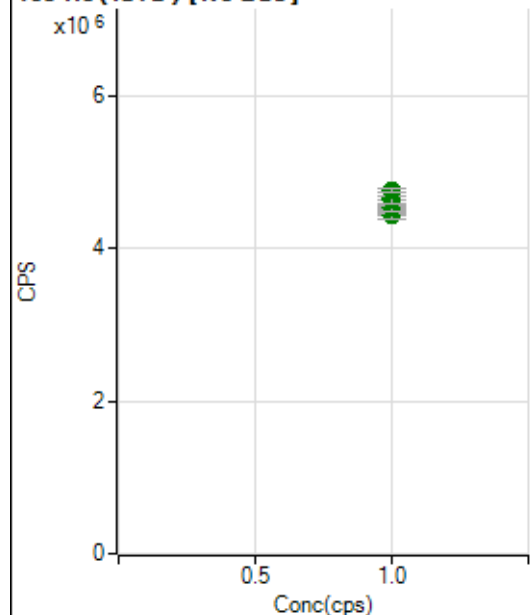
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		912066.86		P	1.2
2	☐	1.000		907140.48		P	1.0
3	☐	1.000		919455.30		P	0.7
4	☐	1.000		927033.03		P	0.7
5	☐	1.000		910190.78		P	0.2
6	☐	1.000		898728.12		P	2.4
7	☐	1.000		900569.37		P	2.3
8	☐	1.000		915954.63		P	1.3

159 Tb (ISTD) [No Gas]

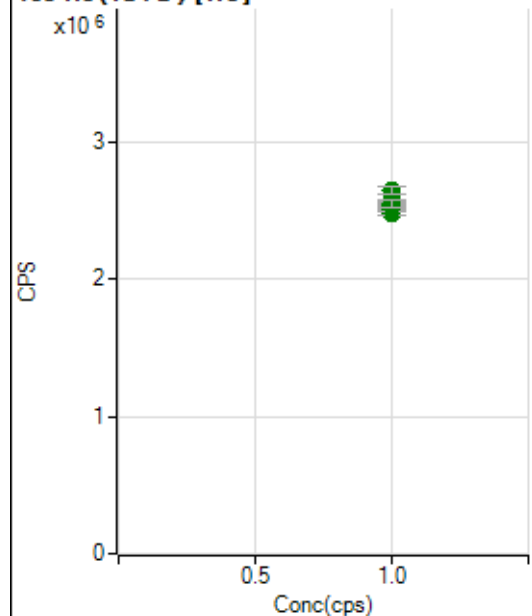
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4807866.32		A	2.1
2	☐	1.000		4885191.18		A	0.9
3	☐	1.000		4731050.55		A	0.5
4	☐	1.000		4869651.35		A	1.5
5	☐	1.000		4906324.48		A	0.7
6	☐	1.000		5055252.05		A	0.6
7	☐	1.000		4941669.48		A	1.7
8	☐	1.000		5021428.26		A	1.8

159 Tb (ISTD) [He]

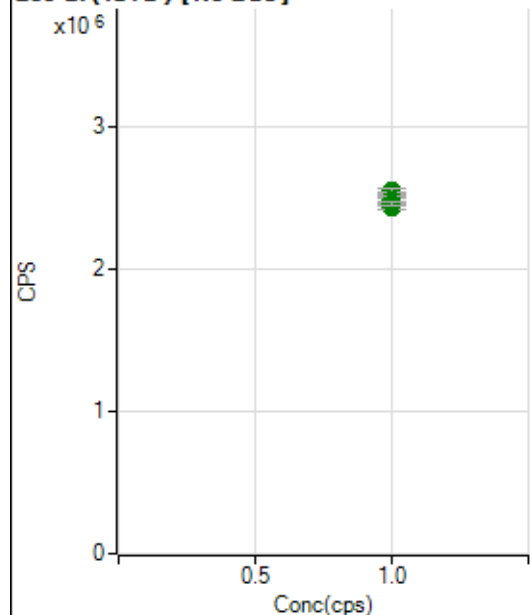
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2510488.56		A	2.3
2	☐	1.000		2490161.28		A	1.6
3	☐	1.000		2544031.82		A	0.6
4	☐	1.000		2568720.71		A	0.7
5	☐	1.000		2552217.91		A	0.6
6	☐	1.000		2509060.31		A	4.2
7	☐	1.000		2557101.32		A	3.2
8	☐	1.000		2643686.68		A	1.5

165 Ho (ISTD) [No Gas]

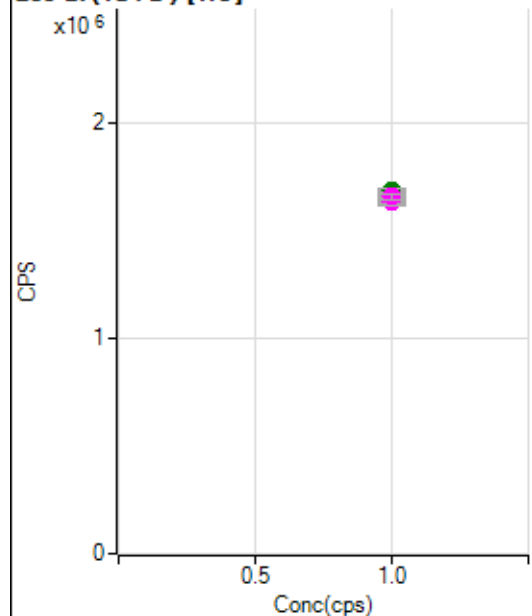
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4462630.96		A	1.4
2	☐	1.000		4494352.40		A	1.6
3	☐	1.000		4434310.38		A	1.8
4	☐	1.000		4579162.65		A	2.5
5	☐	1.000		4534269.63		A	1.4
6	☐	1.000		4670307.83		A	0.8
7	☐	1.000		4635098.07		A	2.0
8	☐	1.000		4759463.82		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2517428.90		A	0.8
2	☐	1.000		2482531.87		A	1.1
3	☐	1.000		2505899.93		A	0.8
4	☐	1.000		2570815.21		A	0.8
5	☐	1.000		2540892.36		A	0.6
6	☐	1.000		2531015.54		A	1.3
7	☐	1.000		2551931.37		A	2.2
8	☐	1.000		2642321.00		A	2.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2466295.90		A	0.6
2	☐	1.000		2439169.81		A	1.8
3	☐	1.000		2431297.21		A	1.1
4	☐	1.000		2500359.86		A	2.8
5	☐	1.000		2507312.69		A	1.0
6	☐	1.000		2547772.20		A	1.2
7	☐	1.000		2481201.37		A	2.1
8	☐	1.000		2456059.95		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1654194.19		M	1.2
2	☐	1.000		1631604.56		P	0.3
3	☐	1.000		1679917.56		M	1.3
4	☐	1.000		1684028.29		A	1.5
5	☐	1.000		1676056.59		A	0.4
6	☐	1.000		1631838.47		M	2.2
7	☐	1.000		1660943.90		M	4.1
8	☐	1.000		1659415.55		M	1.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8100920MS.b
Acq. Date-Time 2020-10-09 10:23:59
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		3175	31751.96			0.976	5.000
24		54089	540891.52			0.849	5.000
25		7262	72618.31			1.260	5.000
26		8059	80593.59			0.934	5.000
59		21086	210857.76			1.424	5.000
113		2759	27594.12			1.249	5.000
115		8346	83458.50			1.018	5.000
206		2498	24983.91			1.633	5.000
207		2100	21001.47			1.273	5.000
208		5135	51353.17			1.175	5.000
220		1	12.20			19.354	

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

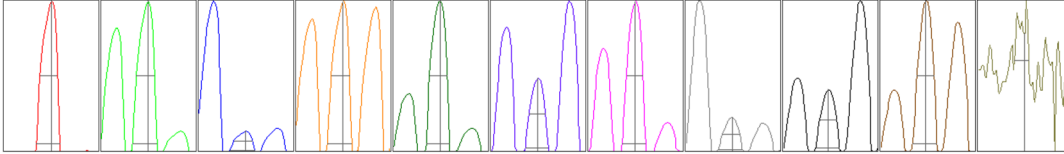
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3192	3200	3125	3193	3165
24	53760	54215	53550	54737	54183
25	7186	7295	7155	7382	7291
26	8045	8051	7953	8162	8085
59	21075	21154	20584	21258	21358
113	2735	2762	2715	2794	2791
115	8310	8369	8223	8452	8375
206	2451	2516	2458	2542	2525
207	2073	2096	2077	2130	2126
208	5111	5121	5059	5219	5167

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	6051.74	9.05	8.90 - 9.10	
24	99636.37	24.00	23.90 - 24.10	
25	13045.00	25.00	24.90 - 25.10	
26	14908.09	26.00	25.90 - 26.10	
59	39833.80	59.00	58.90 - 59.10	
113	5589.23	113.00	112.90 - 113.10	
115	16754.84	115.00	114.90 - 115.10	
206	4822.36	206.00	205.90 - 206.10	
207	4033.24	206.95	206.90 - 207.10	
208	9914.48	207.95	207.90 - 208.10	
220	1.45	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.55	0.735	0.900	
24	0.57	0.780	0.900	
25	0.60	0.780	0.900	
26	0.57	0.780	0.900	
59	0.56	0.734	0.900	
113	0.51	0.725	0.900	
115	0.51	0.752	0.900	
206	0.54	0.748	0.900	
207	0.54	0.744	0.900	
208	0.54	0.772	0.900	
220	0.45			

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	9.1 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	170 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		5075	50747.84			1.401	
89		2924	29238.33			1.886	
205		7511	75108.26			1.215	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4988	5063	5074	5186	5064
89	2836	2929	2960	2978	2917
205	7363	7599	7502	7571	7520

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	9.1 V	Deflect	4.2 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