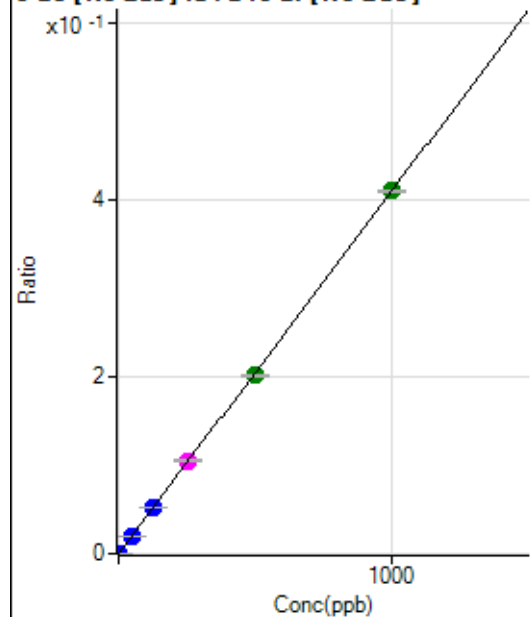


Calibration for 010CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8082421MS.b\
 Analysis File: P8082421MS.batch.bin
 DA Date-Time: 2021-08-24 13:41:10
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2021-08-24 12:13:30
2	006CALS.d	S02	2021-08-24 12:19:39
3	007CALS.d	S03	2021-08-24 12:22:43
4	008CALS.d	S04	2021-08-24 12:25:48
5	009CALS.d	S05	2021-08-24 12:28:51
6	010CALS.d	S06	2021-08-24 12:31:57
7	011CALS.d	S07	2021-08-24 12:35:01
8	012CALS.d	S08	2021-08-24 12:38:06

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.32	0.0000	P	9.3
2	☐	1.000	1.024	4008.43	0.0004	P	3.9
3	☐	50.000	49.521	197303.67	0.0203	P	0.9
4	☐	125.000	127.522	498790.68	0.0522	P	2.4
5	☐	250.000	257.155	994710.00	0.1053	M	1.4
6	☐	500.000	492.633	1912215.74	0.2018	A	1.0
7	☐	1000.000	1001.604	3761925.24	0.4103	A	0.7
8	☐			370.60	0.0000	P	12.5

$$y = 4.0959\text{E-}004 * x + 3.3212\text{E-}006$$

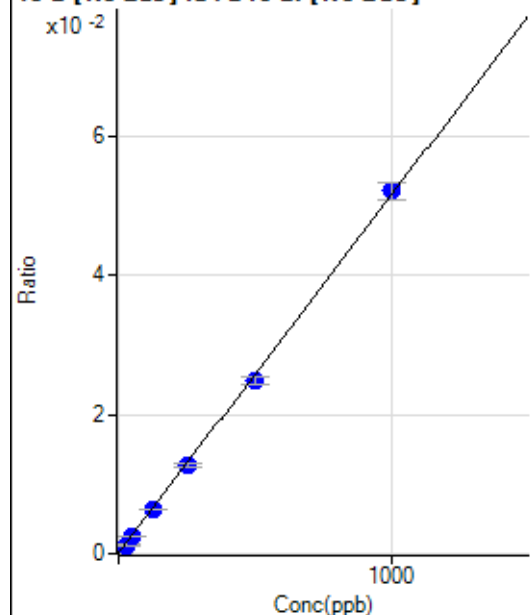
$$R = 0.9999$$

$$DL = 0.002269$$

$$BEC = 0.008109$$

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	748.54	0.0001	P	2.6
2	☐	25.000	22.508	11731.73	0.0012	P	4.9
3	☐	50.000	46.953	24257.22	0.0025	P	6.7
4	☐	125.000	121.415	60461.25	0.0063	P	1.8
5	☐	250.000	247.219	120843.42	0.0128	P	4.9
6	☐	500.000	480.318	234857.63	0.0248	P	4.5
7	☐	1000.000	1011.199	477683.04	0.0521	P	5.1
8	☐			38133.33	0.0043	P	9.6

$$y = 5.1456\text{E-}005 * x + 7.9514\text{E-}005$$

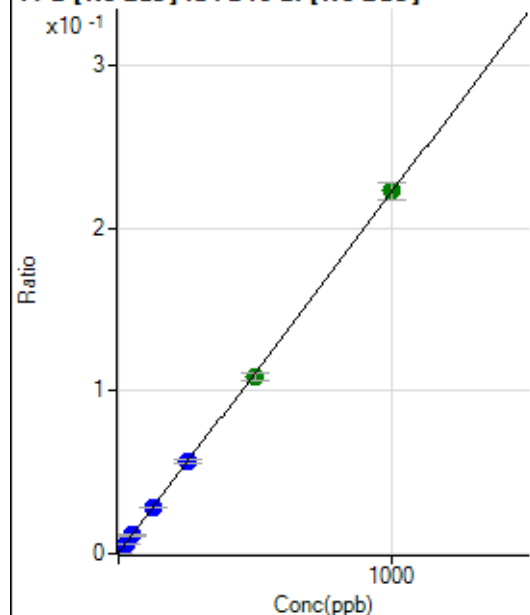
$$R = 0.9997$$

$$DL = 0.1223$$

$$BEC = 1.545$$

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	3333.06	0.0004	P	4.7
2	☐	25.000	23.285	52310.59	0.0055	P	4.8
3	☐	50.000	49.595	110370.42	0.0114	P	5.9
4	☐	125.000	126.877	272250.41	0.0285	P	1.3
5	☐	250.000	255.947	539260.51	0.0571	P	3.9
6	☐	500.000	488.264	1029115.52	0.1086	A	4.0
7	☐	1000.000	1004.209	2044845.48	0.2231	A	4.9
8	☐			171613.55	0.0192	P	10.0

$$y = 2.2178E-004 * x + 3.5466E-004$$

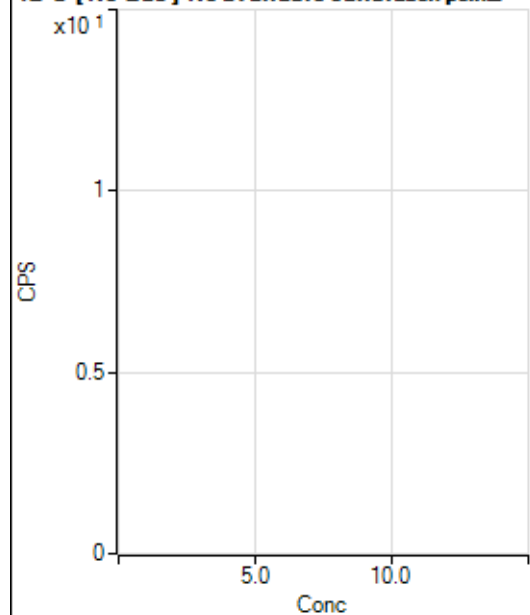
R = 0.9999

DL = 0.2265

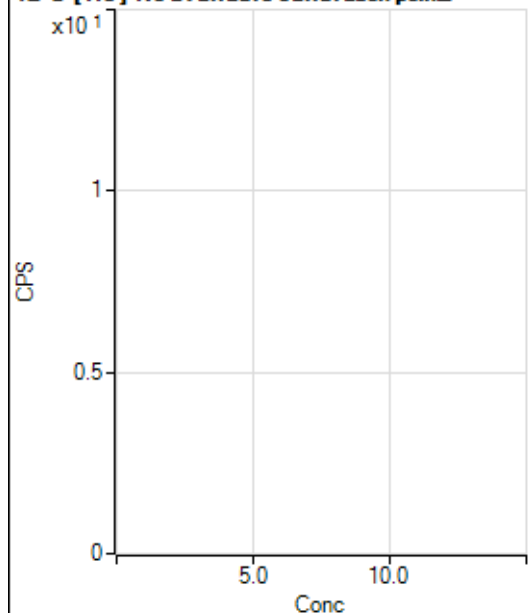
BEC = 1.599

Weight: <None>

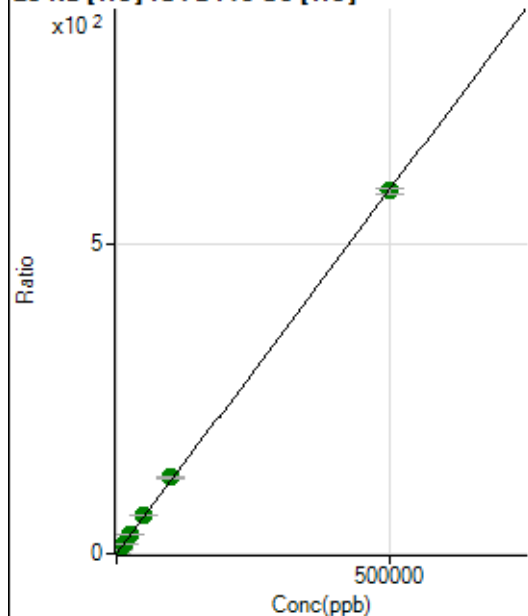
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5598230.20		A	0.6
2	☐			5899073.70		A	1.1
3	☐			6868113.17		A	0.7
4	☐			7524831.50		A	3.2
5	☐			8046829.69		A	3.1
6	☐			9628122.61		A	5.4
7	☐			10100211.60		A	5.0
8	☐			8021418.32		A	2.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57507.49		P	0.9
2	☐			60611.80		P	0.8
3	☐			73310.82		P	1.0
4	☐			83750.17		P	0.7
5	☐			88022.24		P	1.4
6	☐			110627.04		P	3.1
7	☐			117622.55		P	2.0
8	☐			94573.75		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	28080.27	0.0708	P	2.7
2	☐	500.000	515.890	270880.28	0.6778	P	0.7
3	☐	5000.000	5328.838	2511995.74	6.3411	A	0.6
4	☐	12500.000	13329.215	6299433.04	15.7548	A	1.8
5	☐	25000.000	26954.797	12467784.05	31.7876	A	2.2
6	☐	50000.000	53051.641	24779113.92	62.4949	A	1.0
7	☐	100000.00	104715.97	50197316.75	123.2866	A	1.0
8	☐	500000.00	498629.86	242901069.3	586.7917	A	1.4

$$y = 0.0012 * x + 0.0708$$

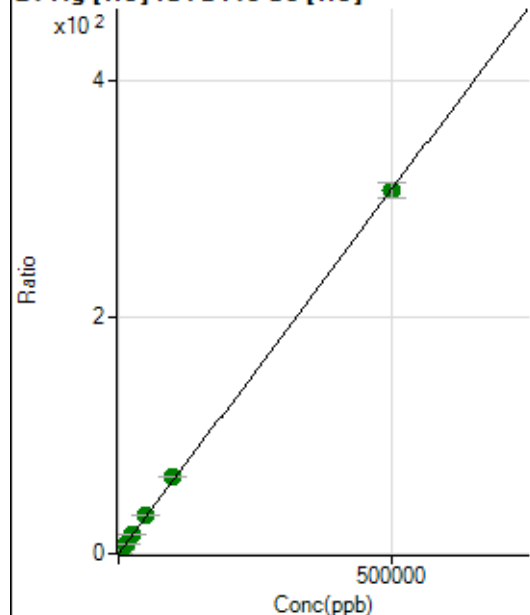
$$R = 0.9999$$

$$DL = 4.858$$

$$BEC = 60.18$$

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	947.28	0.0024	P	14.3
2	☐	500.000	504.170	124712.10	0.3121	P	1.0
3	☐	5000.000	5390.369	1312689.32	3.3135	A	1.4
4	☐	12500.000	13681.181	3361358.63	8.4061	A	1.3
5	☐	25000.000	27494.818	6624875.37	16.8913	A	1.5
6	☐	50000.000	52884.308	12881419.47	32.4869	A	1.3
7	☐	100000.00	105156.52	26300881.14	64.5955	A	1.0
8	☐	500000.00	498522.08	126734516.7	306.2229	A	4.1

$$y = 6.1426\text{E-}004 * x + 0.0024$$

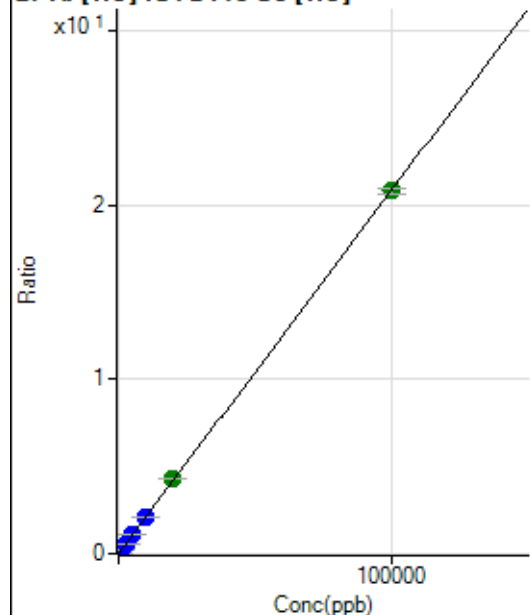
$$R = 0.9999$$

$$DL = 1.673$$

$$BEC = 3.888$$

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	251.22	0.0006	P	13.9
2	☐	20.000	21.297	2025.73	0.0051	P	1.4
3	☐	1000.000	1016.594	84128.08	0.2124	P	0.2
4	☐	2500.000	2547.182	212384.21	0.5311	P	1.3
5	☐	5000.000	5151.500	421059.25	1.0735	P	1.0
6	☐	10000.000	10153.597	838724.70	2.1153	P	1.2
7	☐	20000.000	20602.913	1747371.92	4.2917	A	0.2
8	☐	100000.00	99855.137	8609266.98	20.7977	A	1.3

$$y = 2.0827\text{E-}004 * x + 6.3350\text{E-}004$$

$$R = 1.0000$$

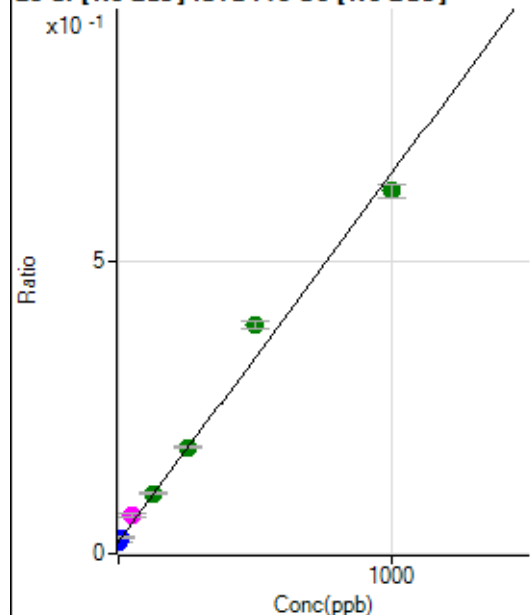
$$DL = 1.27$$

$$BEC = 3.042$$

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	306665.60	0.0209	P	4.5
2	☐	10.000	11.108	414956.41	0.0279	P	1.4
3	☐	50.000	70.884	980040.66	0.0655	M	9.6
4	☐	125.000	131.204	1520083.27	0.1035	A	0.8
5	☐	250.000	254.680	2671236.87	0.1813	A	1.9
6	☐	500.000	588.203	5868463.28	0.3913	A	3.4
7	☐	1000.000	952.898	9308922.26	0.6210	A	3.5
8	☐			671365.59	0.0453	P	0.9

$$y = 6.2980\text{E-}004 * x + 0.0209$$

$$R = 0.9940$$

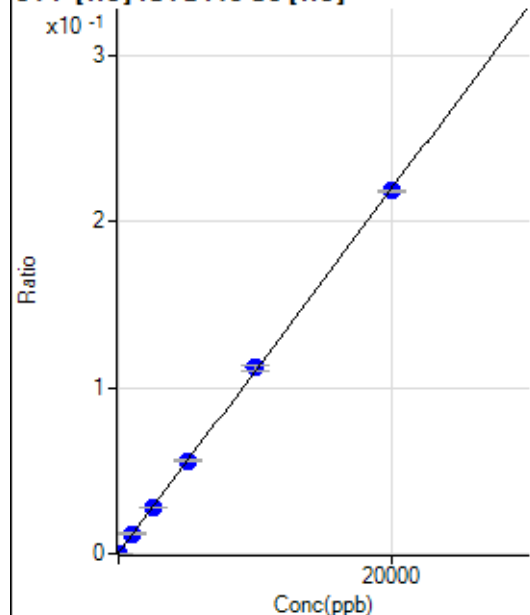
$$DL = 4.465$$

$$BEC = 33.12$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	1.696	175.01	0.0004	P	35.1
2	☐	0.000	-1.696	161.11	0.0004	P	20.9
3	☐	1000.000	1055.910	4753.67	0.0120	P	6.8
4	☐	2500.000	2530.550	11265.75	0.0282	P	1.4
5	☐	5000.000	5070.221	21972.79	0.0560	P	1.6
6	☐	10000.000	10172.595	44393.68	0.1120	P	2.7
7	☐	20000.000	19889.533	88975.61	0.2185	P	0.7
8	☐			263.90	0.0006	P	29.2

$$y = 1.0966\text{E-}005 * x + 4.2179\text{E-}004$$

$$R = 0.9999$$

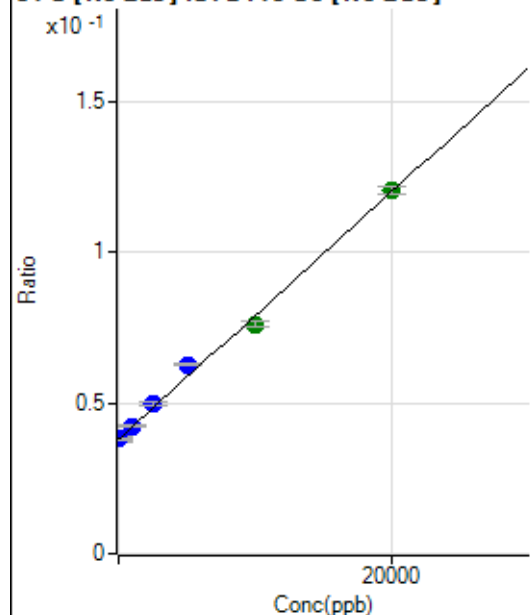
$$DL = 32.7$$

$$BEC = 38.46$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.604	557748.07	0.0379	P	3.4
2	☐	0.000	11.604	566418.86	0.0380	P	1.7
3	☐	1000.000	1055.363	633210.73	0.0423	P	1.4
4	☐	2500.000	2913.742	733227.65	0.0499	P	2.5
5	☐	5000.000	6046.606	925168.15	0.0628	P	1.6
6	☐	10000.000	9257.814	1138845.47	0.0760	A	2.8
7	☐	20000.000	20054.955	1802502.82	0.1203	A	2.3
8	☐			482986.34	0.0326	P	2.1

$$y = 4.1027\text{E-}006 * x + 0.0380$$

$$R = 0.9973$$

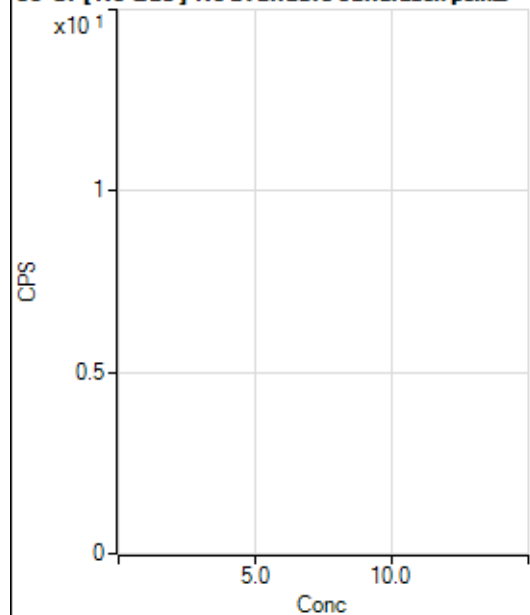
$$DL = 712.1$$

$$BEC = 9256$$

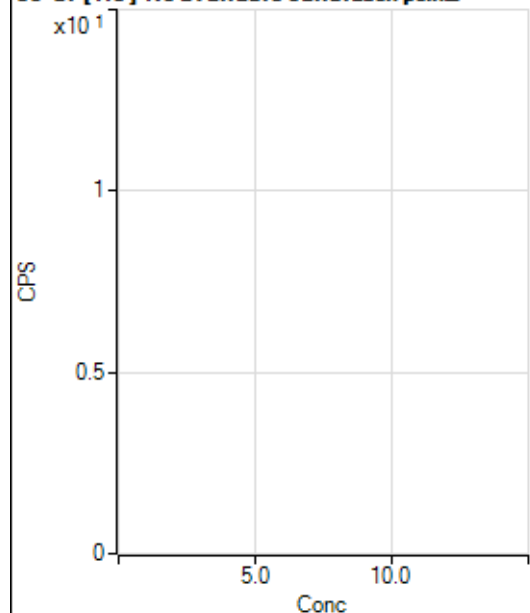
Weight: <None>

Min Conc: 0

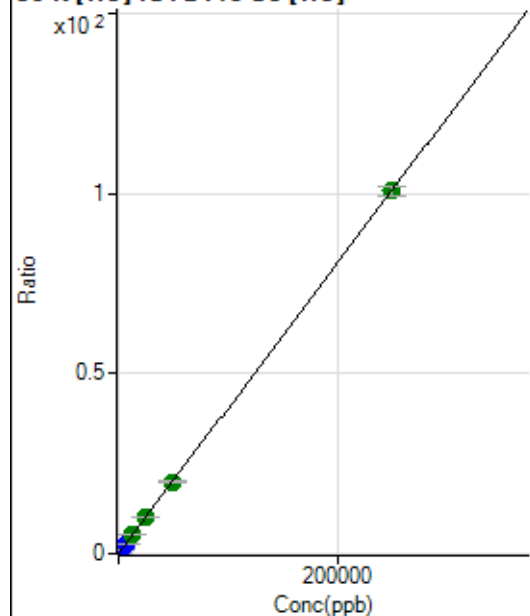
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			260795.36		P	0.4
2	☐			267237.63		P	1.1
3	☐			322325.60		P	0.6
4	☐			352845.08		P	2.0
5	☐			333550.23		P	1.6
6	☐			324192.03		P	0.9
7	☐			311469.06		P	0.1
8	☐			310047.25		P	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1377.88		P	5.0
2	☐			1527.91		P	9.2
3	☐			1769.60		P	6.4
4	☐			2114.10		P	5.2
5	☐			2130.77		P	7.4
6	☐			1769.61		P	3.2
7	☐			1819.61		P	12.3
8	☐			1983.53		P	6.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12822.69	0.0323	P	2.3
2	☐	500.000	474.785	89301.18	0.2235	P	1.5
3	☐	2500.000	2505.945	412450.65	1.0411	P	1.6
4	☐	6250.000	6316.498	1029570.03	2.5751	P	2.4
5	☐	12500.000	12839.827	2040099.11	5.2011	A	0.4
6	☐	25000.000	25166.565	4029585.29	10.1634	A	1.5
7	☐	50000.000	49361.066	8103232.13	19.9031	A	2.0
8	☐	250000.00	250092.46	41682434.96	100.7096	A	2.7

$$y = 4.0256E-004 * x + 0.0323$$

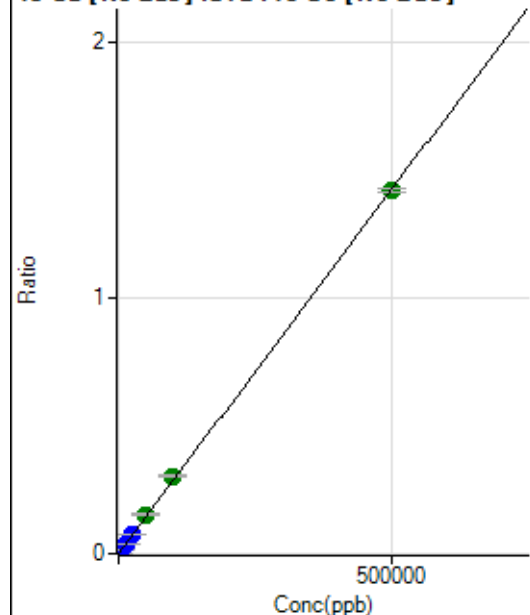
$$R = 1.0000$$

$$DL = 5.444$$

$$BEC = 80.33$$

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	623.69	0.0000	P	3.9
2	☐	500.000	484.428	21185.81	0.0014	P	1.1
3	☐	5000.000	5194.504	222045.85	0.0148	P	2.2
4	☐	12500.000	13339.986	558586.64	0.0380	P	1.8
5	☐	25000.000	26255.447	1102583.16	0.0748	P	0.4
6	☐	50000.000	53173.276	2271140.90	0.1515	A	3.6
7	☐	100000.00	106382.25	4542160.78	0.3030	A	1.9
8	☐	500000.00	498320.52	21042600.75	1.4192	A	1.0

$$y = 2.8479\text{E-}006 * x + 4.2416\text{E-}005$$

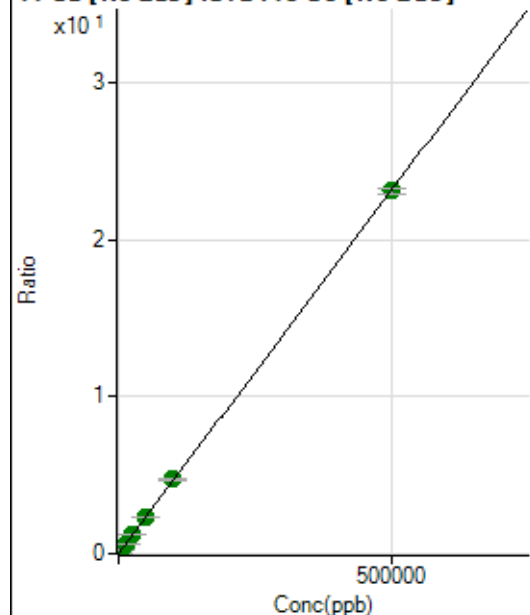
$$R = 0.9999$$

$$DL = 1.739$$

$$BEC = 14.89$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35845.48	0.0024	P	2.8
2	☐	500.000	480.904	368171.41	0.0247	P	1.8
3	☐	5000.000	5135.129	3596963.80	0.2403	A	1.7
4	☐	12500.000	12903.077	8815874.59	0.6002	A	0.2
5	☐	25000.000	25921.551	17731570.04	1.2032	A	1.1
6	☐	50000.000	50967.770	35438151.12	2.3635	A	1.7
7	☐	100000.00	102799.90	71415446.52	4.7646	A	2.6
8	☐	500000.00	499285.75	342954077.9	23.1315	A	1.4

$$y = 4.6324\text{E-}005 * x + 0.0024$$

$$R = 1.0000$$

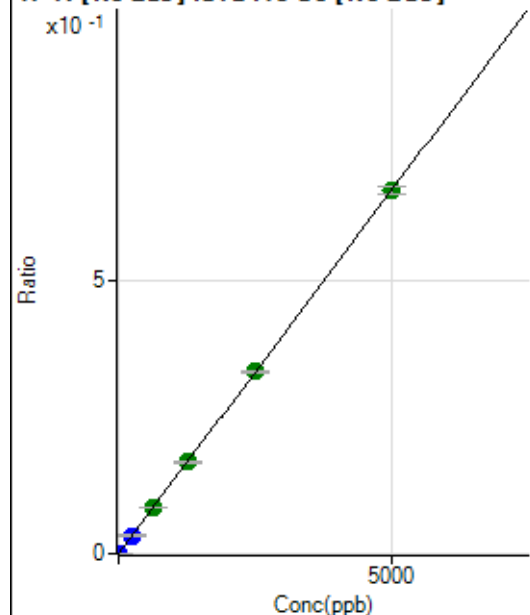
$$DL = 4.459$$

$$BEC = 52.61$$

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	200.01	0.0000	P	24.1
2	☐	5.000	4.816	9728.53	0.0007	P	4.1
3	☐	250.000	249.988	497011.41	0.0332	P	2.3
4	☐	625.000	638.339	1245194.85	0.0848	A	1.6
5	☐	1250.000	1259.416	2464713.97	0.1672	A	1.6
6	☐	2500.000	2504.824	4987606.80	0.3326	A	1.1
7	☐	5000.000	4993.567	9939183.38	0.6631	A	2.1
8	☐			3603.34	0.0002	P	12.4

$$y = 1.3278\text{E-}004 * x + 1.3656\text{E-}005$$

$$R = 1.0000$$

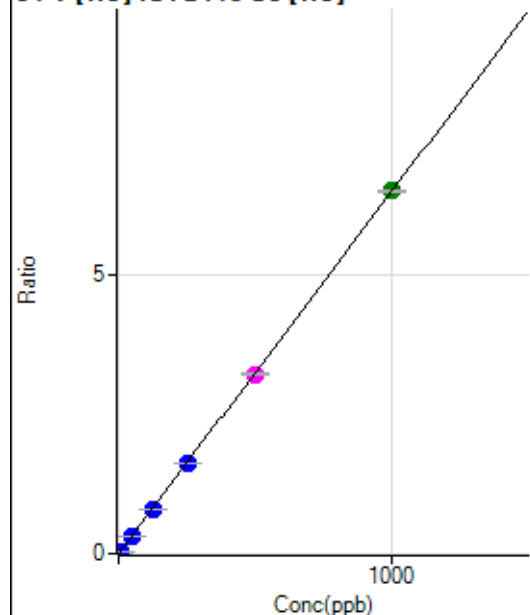
$$DL = 0.07447$$

$$BEC = 0.1028$$

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	7.78	0.0000	P	50.0
2	☐	5.000	4.798	12418.81	0.0311	P	1.0
3	☐	50.000	49.003	125657.43	0.3172	P	1.2
4	☐	125.000	122.694	317553.15	0.7942	P	1.6
5	☐	250.000	250.165	635131.30	1.6192	P	0.5
6	☐	500.000	495.059	1270533.94	3.2043	M	1.4
7	☐	1000.000	1002.768	2642689.91	6.4906	A	0.5
8	☐			388.90	0.0009	P	6.8

$$y = 0.0065 * x + 1.9661\text{E-}005$$

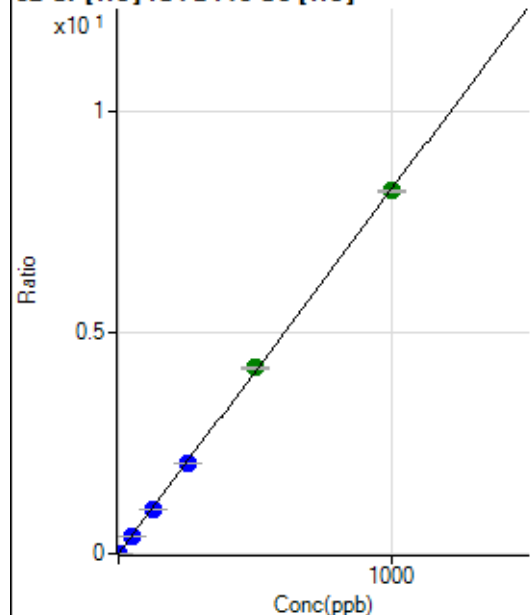
$$R = 1.0000$$

$$DL = 0.004552$$

$$BEC = 0.003038$$

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	1072.28	0.0027	P	3.5
2	☐	2.000	1.951	7499.82	0.0188	P	4.9
3	☐	50.000	49.015	160957.54	0.4063	P	0.5
4	☐	125.000	123.153	406585.65	1.0167	P	0.9
5	☐	250.000	247.422	800107.67	2.0400	P	0.9
6	☐	500.000	510.200	1666843.67	4.2037	A	0.7
7	☐	1000.000	995.824	3339595.44	8.2023	A	0.5
8	☐			21952.50	0.0530	P	2.2

$$y = 0.0082 * x + 0.0027$$

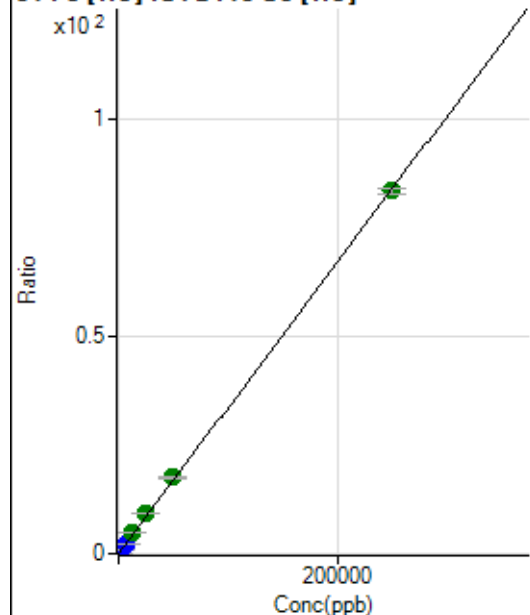
$$R = 0.9999$$

$$DL = 0.03489$$

$$BEC = 0.3283$$

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	561.13	0.0014	P	7.6
2	☐	50.000	52.824	7622.51	0.0191	P	4.0
3	☐	2500.000	2651.673	351731.59	0.8879	P	0.8
4	☐	6250.000	6642.485	888468.93	2.2220	P	1.9
5	☐	12500.000	13975.201	1833064.86	4.6734	A	1.0
6	☐	25000.000	27372.642	3629044.29	9.1523	A	0.5
7	☐	50000.000	52538.454	7151589.80	17.5653	A	1.5
8	☐	250000.00	249169.95	34481117.90	83.3005	A	1.5

$$y = 3.3431E-004 * x + 0.0014$$

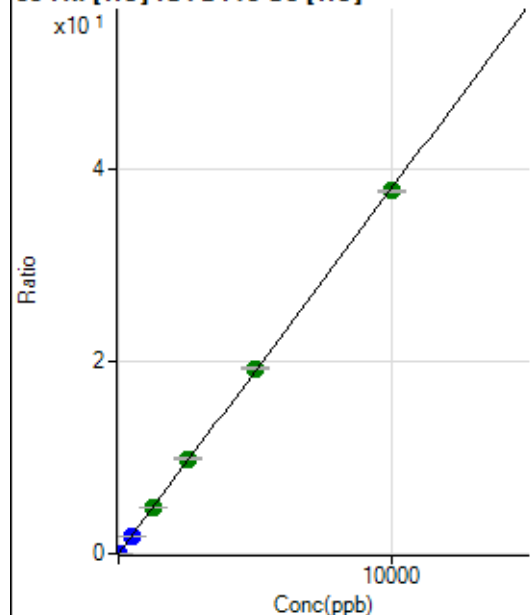
$$R = 0.9999$$

$$DL = 0.9675$$

$$BEC = 4.232$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	152.22	0.0004	P	11.0
2	☐	1.000	1.046	1737.90	0.0043	P	3.0
3	☐	500.000	495.955	744920.69	1.8804	P	1.0
4	☐	1250.000	1276.694	1935580.65	4.8398	A	0.1
5	☐	2500.000	2594.068	3856845.74	9.8335	A	1.8
6	☐	5000.000	5077.416	7631911.76	19.2469	A	0.4
7	☐	10000.000	9934.640	15332927.13	37.6587	A	0.7
8	☐			11436.89	0.0276	P	3.2

$$y = 0.0038 * x + 3.8399E-004$$

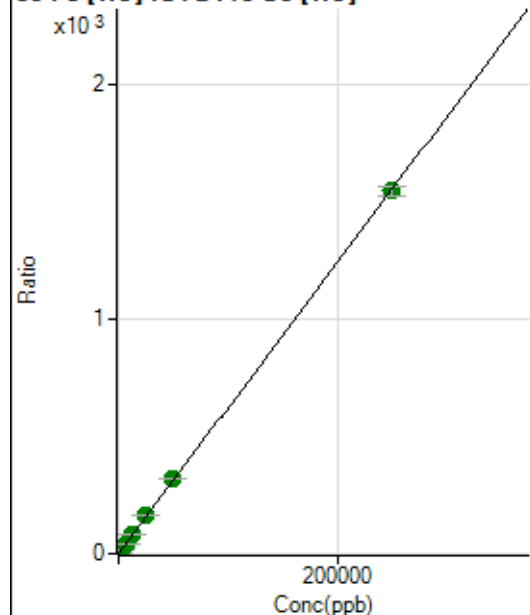
$$R = 0.9999$$

$$DL = 0.03334$$

$$BEC = 0.1013$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7261.22	0.0183	P	5.4
2	☐	50.000	51.467	134947.41	0.3377	P	1.7
3	☐	2500.000	2639.448	6495877.11	16.3974	A	0.5
4	☐	6250.000	6629.062	16458994.58	41.1551	A	0.8
5	☐	12500.000	13456.260	32757894.02	83.5213	A	1.1
6	☐	25000.000	26467.332	65127857.47	164.2617	A	1.4
7	☐	50000.000	51934.972	131226588.1	322.3015	A	0.6
8	☐	250000.00	249407.58	640607910.6	1.547720	A	2.6

$$y = 0.0062 * x + 0.0183$$

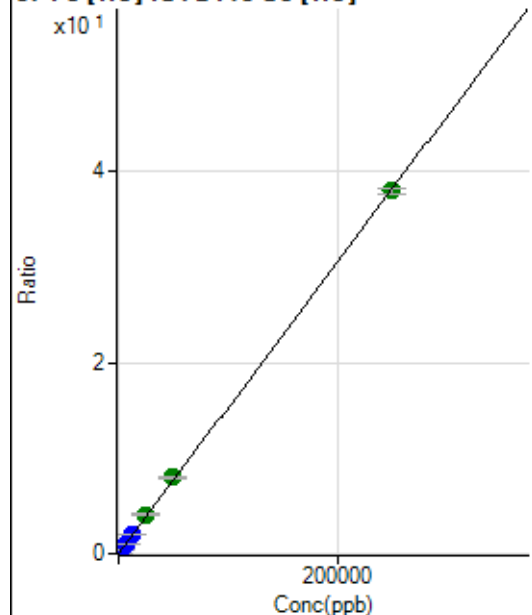
$$R = 1.0000$$

$$DL = 0.482$$

$$BEC = 2.95$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.71	0.0005	P	12.9
2	☐	50.000	50.740	3293.03	0.0082	P	8.9
3	☐	2500.000	2578.191	155749.40	0.3932	P	0.6
4	☐	6250.000	6506.445	396414.77	0.9914	P	1.7
5	☐	12500.000	13156.167	786083.34	2.0041	P	0.8
6	☐	25000.000	26805.310	1618662.06	4.0829	A	2.4
7	☐	50000.000	52600.089	3261682.74	8.0113	A	1.6
8	☐	250000.00	249259.45	15713490.28	37.9618	A	1.7

$$y = 1.5230\text{E-}004 * x + 5.1327\text{E-}004$$

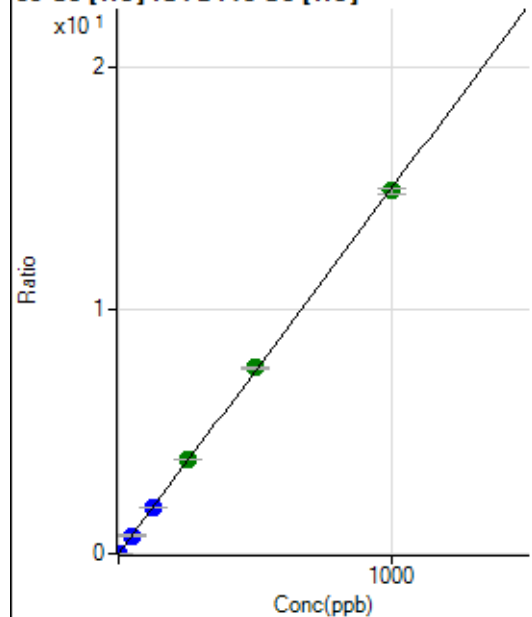
$$R = 0.9999$$

$$DL = 1.3$$

$$BEC = 3.37$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0002	P	11.4
2	☐	1.000	0.982	5983.54	0.0150	P	0.6
3	☐	50.000	49.958	296775.61	0.7491	P	0.2
4	☐	125.000	125.592	752846.52	1.8829	P	1.9
5	☐	250.000	259.632	1526616.66	3.8922	A	0.5
6	☐	500.000	508.551	3022899.05	7.6235	A	0.7
7	☐	1000.000	993.245	6062338.59	14.8892	A	1.8
8	☐			8421.46	0.0203	P	1.0

$$y = 0.0150 * x + 2.4927\text{E-}004$$

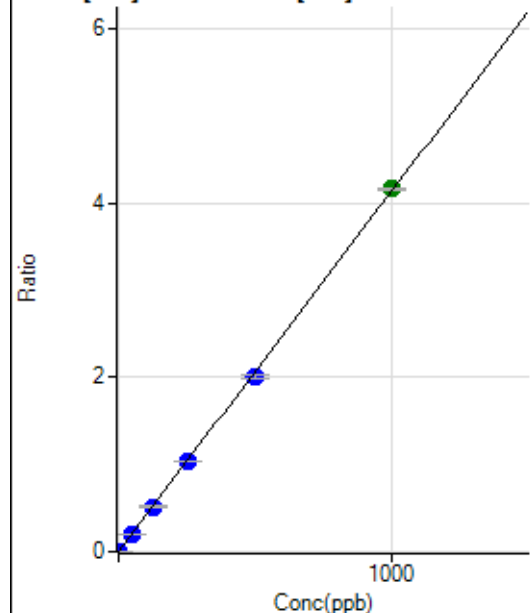
$$R = 0.9999$$

$$DL = 0.005668$$

$$BEC = 0.01663$$

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	54.44	0.0001	P	20.9
2	☐	1.000	0.977	1667.89	0.0042	P	6.7
3	☐	50.000	50.421	82611.66	0.2085	P	0.6
4	☐	125.000	124.819	206343.00	0.5160	P	1.4
5	☐	250.000	251.104	407134.02	1.0380	P	0.1
6	☐	500.000	485.724	796078.24	2.0077	P	1.2
7	☐	1000.000	1006.864	1694494.65	4.1617	A	0.4
8	☐			7935.62	0.0192	P	2.3

$$y = 0.0041 * x + 1.3717E-004$$

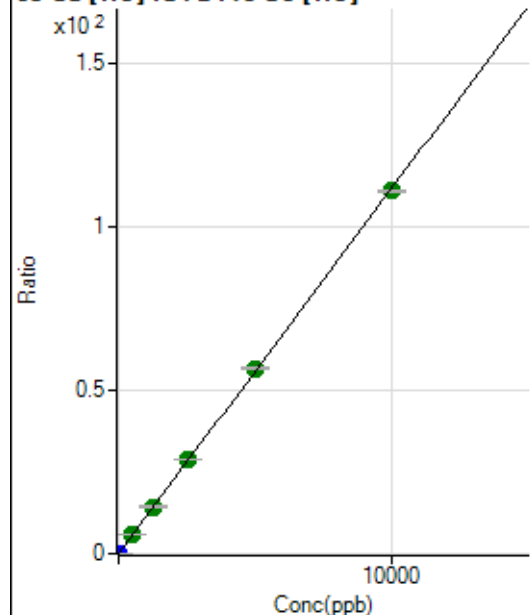
$$R = 0.9998$$

$$DL = 0.02078$$

$$BEC = 0.03319$$

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	761.14	0.0019	P	4.4
2	☐	2.000	2.019	9771.22	0.0245	P	3.9
3	☐	500.000	526.372	2328372.97	5.8775	A	0.6
4	☐	1250.000	1286.130	5741022.07	14.3583	A	2.0
5	☐	2500.000	2587.210	11328021.36	28.8816	A	0.8
6	☐	5000.000	5068.386	22433143.28	56.5776	A	1.1
7	☐	10000.000	9938.170	45169190.44	110.9364	A	0.4
8	☐			14338.44	0.0346	P	2.2

$$y = 0.0112 * x + 0.0019$$

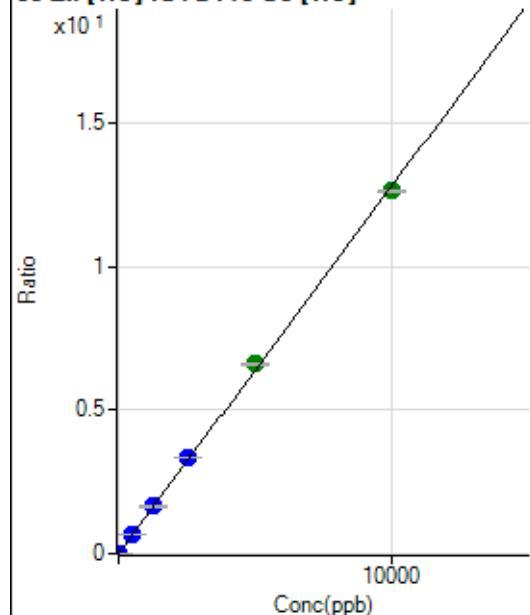
$$R = 0.9999$$

$$DL = 0.02262$$

$$BEC = 0.1719$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	688.91	0.0017	P	8.8
2	☐	2.000	2.401	1921.26	0.0048	P	2.8
3	☐	500.000	521.285	264788.67	0.6684	P	0.2
4	☐	1250.000	1291.379	661051.87	1.6533	P	1.7
5	☐	2500.000	2605.557	1307609.41	3.3339	P	1.0
6	☐	5000.000	5171.060	2622942.97	6.6149	A	0.8
7	☐	10000.000	9881.844	5146183.02	12.6395	A	0.6
8	☐			10578.48	0.0256	P	0.7

$$y = 0.0013 * x + 0.0017$$

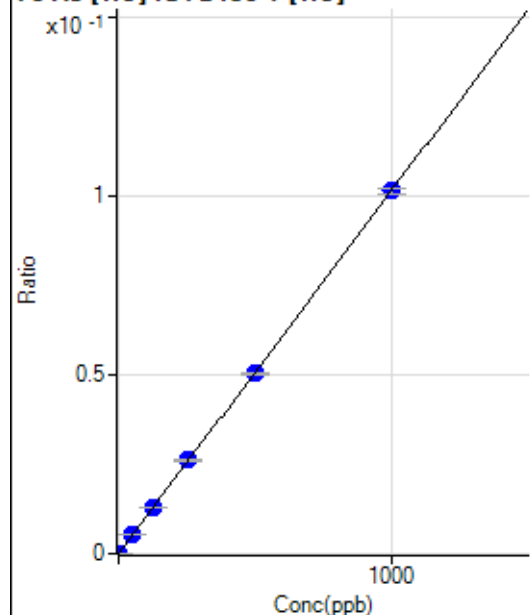
$$R = 0.9997$$

$$DL = 0.358$$

$$BEC = 1.358$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	29.1
2	☐	1.000	0.937	270.03	0.0001	P	6.4
3	☐	50.000	50.624	13900.23	0.0051	P	0.9
4	☐	125.000	127.024	35606.87	0.0129	P	1.2
5	☐	250.000	257.603	71032.67	0.0261	P	0.7
6	☐	500.000	496.396	140768.03	0.0503	P	1.0
7	☐	1000.000	999.617	284557.91	0.1013	P	1.2
8	☐			93.68	0.0000	P	7.9

$$y = 1.0129E-004 * x + 3.0343E-006$$

$$R = 1.0000$$

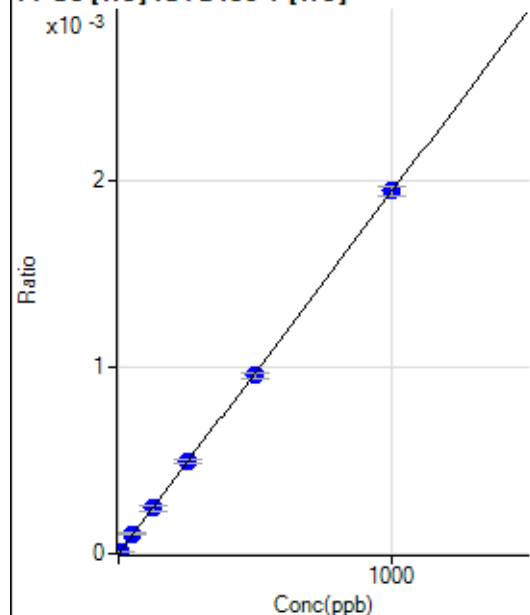
$$DL = 0.02616$$

$$BEC = 0.02996$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.403	28.89	0.0000	P	59.0
3	☐	50.000	54.052	283.34	0.0001	P	8.0
4	☐	125.000	125.774	673.36	0.0002	P	10.9
5	☐	250.000	254.943	1343.41	0.0005	P	5.1
6	☐	500.000	491.786	2664.72	0.0010	P	3.5
7	☐	1000.000	1002.570	5452.22	0.0019	P	2.6
8	☐			3.33	0.0000	P	98.6

$$y = 1.9352\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

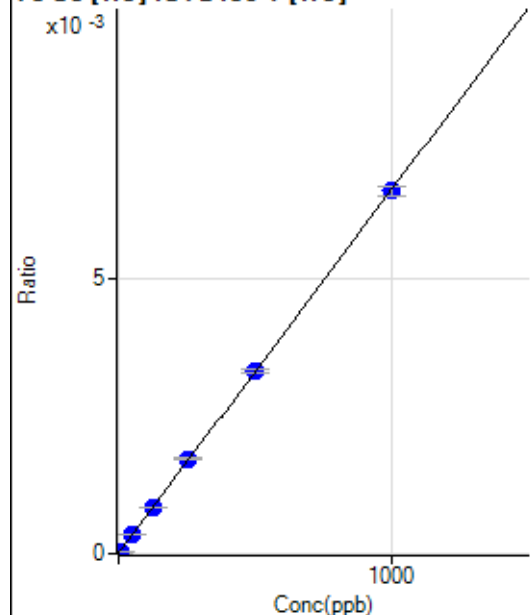
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.67	0.0000	P	28.0
2	☐	5.000	5.198	114.68	0.0000	P	7.5
3	☐	50.000	51.196	938.13	0.0003	P	3.1
4	☐	125.000	127.126	2350.11	0.0008	P	0.9
5	☐	250.000	259.412	4697.26	0.0017	P	2.3
6	☐	500.000	500.387	9299.68	0.0033	P	1.7
7	☐	1000.000	997.127	18582.09	0.0066	P	2.8
8	☐			32.33	0.0000	P	12.6

$$y = 6.6246\text{E-}006 * x + 7.1645\text{E-}006$$

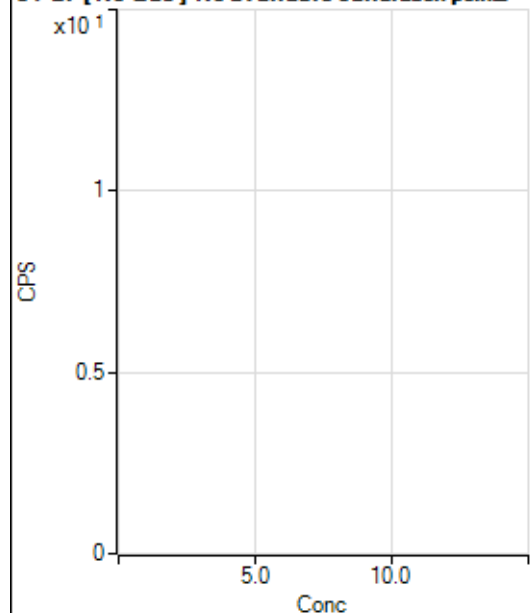
$$R = 1.0000$$

$$DL = 0.9075$$

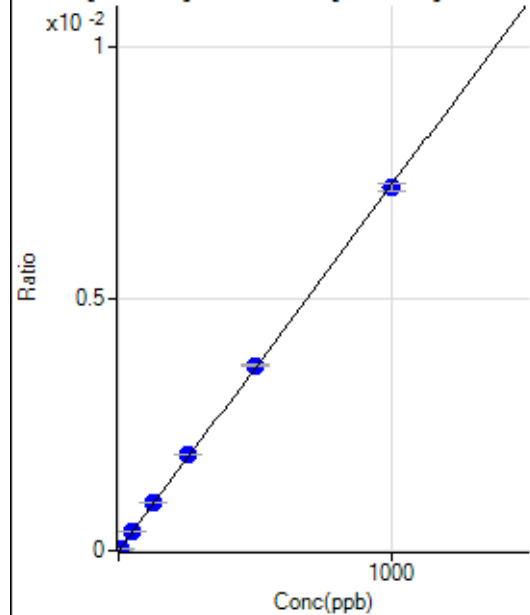
$$BEC = 1.081$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8407.88		P	1.5
2	☐			8548.09		P	2.6
3	☐			8504.74		P	5.2
4	☐			7883.73		P	1.9
5	☐			8137.44		P	3.0
6	☐			7873.68		P	3.1
7	☐			8538.10		P	3.3
8	☐			9339.40		P	5.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-37.56	0.0000	P	-113.
2	☐	5.000	5.529	1227.21	0.0000	P	3.3
3	☐	50.000	51.629	11886.63	0.0004	P	1.9
4	☐	125.000	130.815	29605.90	0.0009	P	0.9
5	☐	250.000	263.264	59759.52	0.0019	P	1.0
6	☐	500.000	506.804	116463.70	0.0037	P	0.5
7	☐	1000.000	992.471	230265.69	0.0072	P	2.1
8	☐			75.78	0.0000	P	88.0

$$y = 7.2472E-006 * x - 1.1970E-006$$

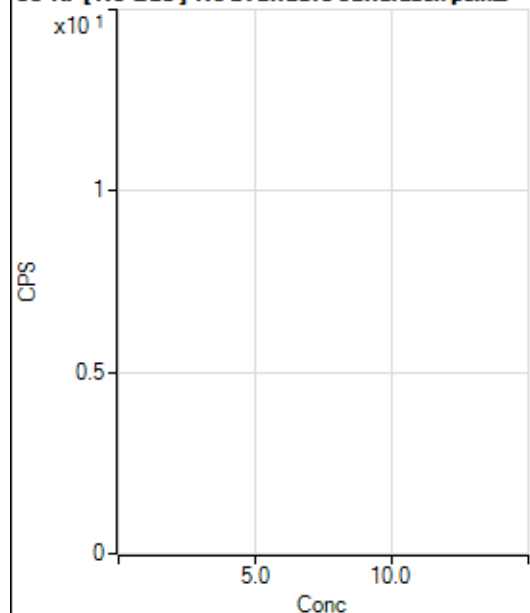
$$R = 0.9999$$

$$DL = 0.5629$$

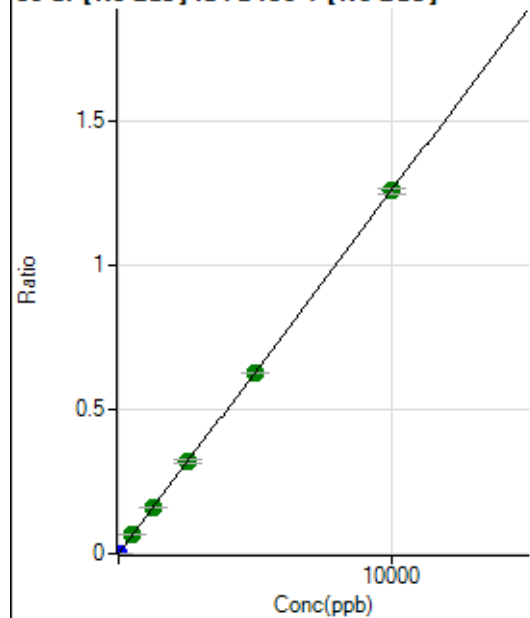
$$BEC = -0.1652$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			587.79		P	6.9
2	☐			567.80		P	8.0
3	☐			604.46		P	7.0
4	☐			554.46		P	7.5
5	☐			593.36		P	4.2
6	☐			593.35		P	7.6
7	☐			590.02		P	9.2
8	☐			588.91		P	10.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1030.62	0.0000	P	9.5
2	☐	1.000	1.121	5504.00	0.0002	P	4.2
3	☐	500.000	507.732	2040240.24	0.0640	A	1.2
4	☐	1250.000	1267.185	4993739.31	0.1597	A	0.9
5	☐	2500.000	2545.197	10051468.97	0.3208	A	2.7
6	☐	5000.000	4985.383	19927491.94	0.6282	A	0.6
7	☐	10000.000	9993.474	40323339.79	1.2593	A	1.9
8	☐			12302.97	0.0004	P	2.9

$$y = 1.2601E-004 * x + 3.3035E-005$$

$$R = 1.0000$$

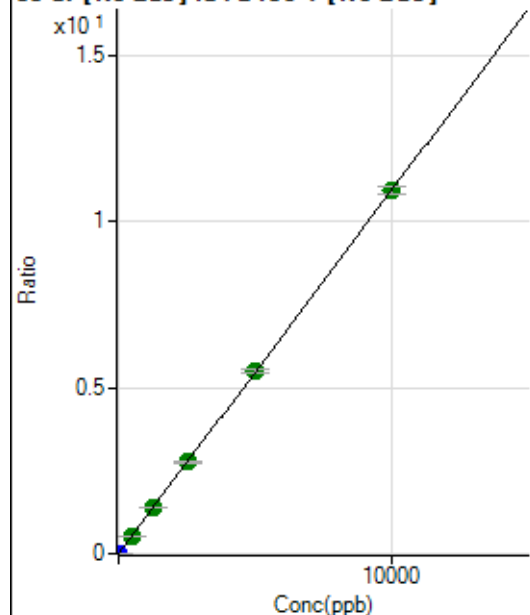
$$DL = 0.07506$$

$$BEC = 0.2622$$

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	1614.03	0.0001	P	9.9
2	☐	1.000	1.106	39785.17	0.0013	P	1.2
3	☐	500.000	498.291	17346422.09	0.5442	A	1.1
4	☐	1250.000	1260.785	43055908.95	1.3770	A	0.9
5	☐	2500.000	2515.096	86083656.09	2.7468	A	1.7
6	☐	5000.000	5011.920	173618333.0	5.4737	A	1.8
7	☐	10000.000	9989.003	349304749.4	10.9092	A	2.1
8	☐			101157.98	0.0032	P	1.7

$$y = 0.0011 * x + 5.1841E-005$$

$$R = 1.0000$$

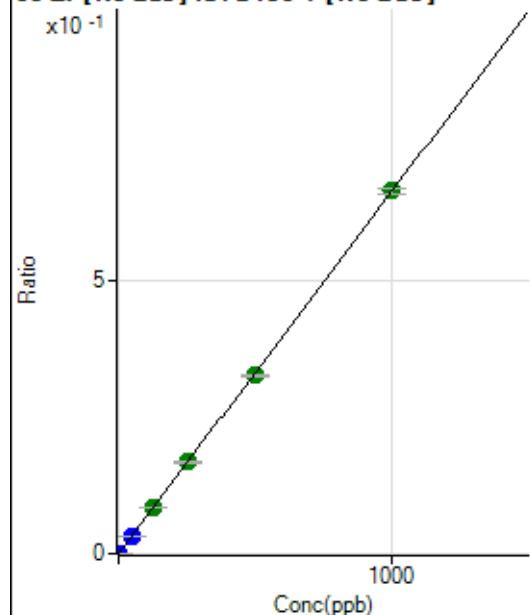
$$DL = 0.01414$$

$$BEC = 0.04747$$

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	1905.74	0.0001	P	2.0
2	☐	1.000	0.962	21981.72	0.0007	P	2.0
3	☐	50.000	48.722	1027174.45	0.0322	P	1.4
4	☐	125.000	127.353	2630850.01	0.0841	A	1.4
5	☐	250.000	252.690	5230616.35	0.1669	A	0.9
6	☐	500.000	492.009	10305270.28	0.3249	A	0.6
7	☐	1000.000	1003.093	21209324.43	0.6623	A	1.3
8	☐			8094.25	0.0003	P	3.5

$$y = 6.6021E-004 * x + 6.1088E-005$$

$$R = 0.9999$$

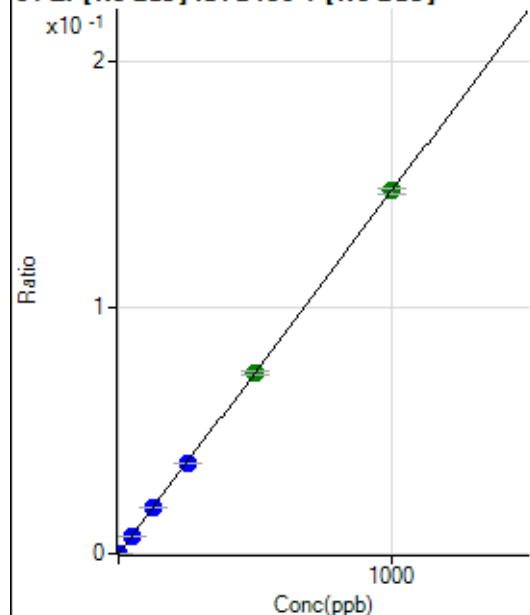
$$DL = 0.005496$$

$$BEC = 0.09253$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	352.79	0.0000	P	29.0
2	☐	1.000	0.945	4748.16	0.0002	P	2.6
3	☐	50.000	48.244	226693.77	0.0071	P	0.9
4	☐	125.000	125.723	578934.99	0.0185	P	0.9
5	☐	250.000	248.648	1147442.88	0.0366	P	0.2
6	☐	500.000	499.441	2332124.64	0.0735	A	1.5
7	☐	1000.000	1000.615	4716383.92	0.1473	A	1.9
8	☐			1755.71	0.0001	P	5.1

$$y = 1.4719E-004 * x + 1.1363E-005$$

$$R = 1.0000$$

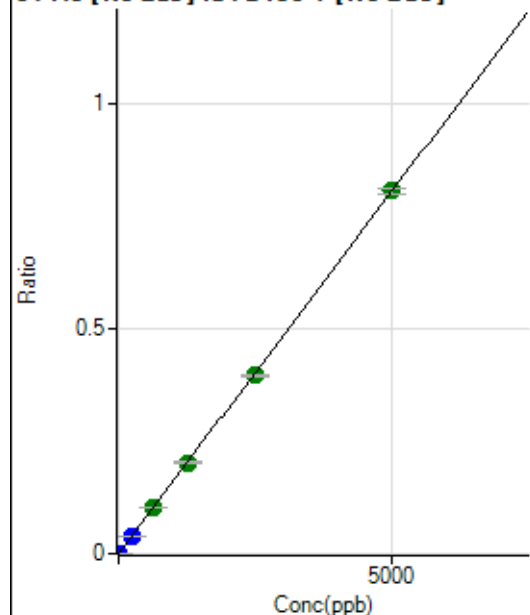
$$DL = 0.06711$$

$$BEC = 0.0772$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	661.14	0.0000	P	2.4
2	☐	5.000	4.841	25209.43	0.0008	P	2.5
3	☐	250.000	248.804	1273863.22	0.0400	P	0.4
4	☐	625.000	643.332	3230041.78	0.1033	A	0.8
5	☐	1250.000	1262.025	6351348.32	0.2026	A	1.0
6	☐	2500.000	2460.354	12529629.45	0.3950	A	1.1
7	☐	5000.000	5014.585	25782204.22	0.8051	A	1.5
8	☐			9256.10	0.0003	P	7.3

$$y = 1.6055E-004 * x + 2.1193E-005$$

$$R = 0.9999$$

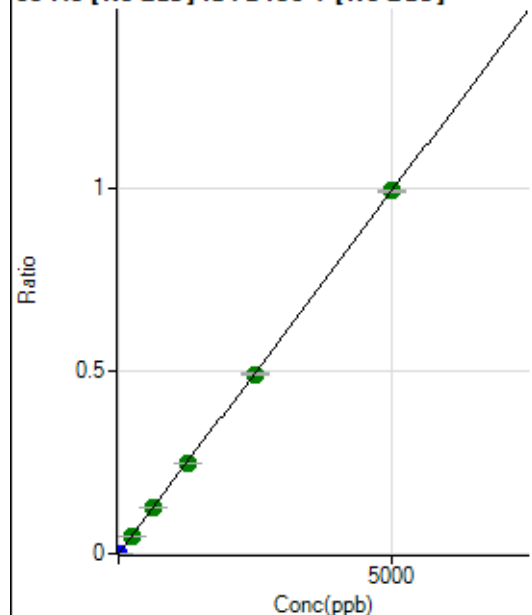
$$DL = 0.009638$$

$$BEC = 0.132$$

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	47.22	0.0000	P	8.0
2	☐	5.000	4.812	30219.85	0.0010	P	2.3
3	☐	250.000	246.750	1561888.36	0.0490	A	0.9
4	☐	625.000	642.206	3987562.50	0.1275	A	1.6
5	☐	1250.000	1252.983	7798037.33	0.2488	A	0.8
6	☐	2500.000	2481.188	15627581.25	0.4927	A	0.9
7	☐	5000.000	5006.672	31841476.41	0.9942	A	0.9
8	☐			11246.51	0.0004	P	0.7

$$y = 1.9857\text{E-}004 * x + 1.5124\text{E-}006$$

$$R = 1.0000$$

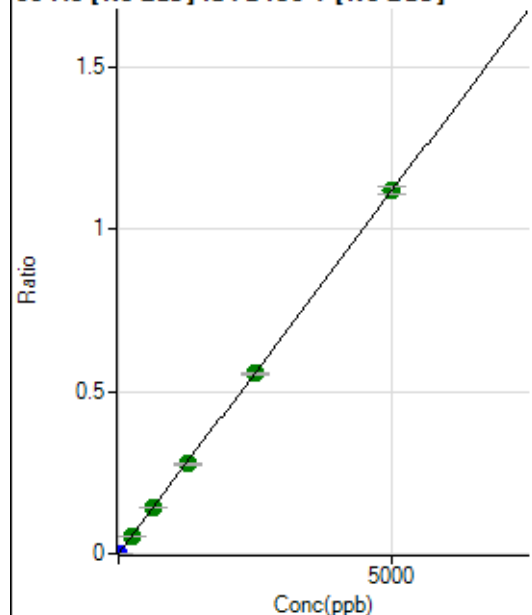
$$DL = 0.001818$$

$$BEC = 0.007616$$

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	155.56	0.0000	P	6.8
2	☐	5.000	4.758	33674.85	0.0011	P	2.4
3	☐	250.000	250.225	1779724.43	0.0558	A	1.0
4	☐	625.000	633.521	4419854.44	0.1414	A	1.4
5	☐	1250.000	1241.586	8681875.37	0.2770	A	1.5
6	☐	2500.000	2489.275	17617181.99	0.5554	A	1.2
7	☐	5000.000	5006.390	35767395.25	1.1170	A	2.3
8	☐			15470.07	0.0005	P	2.2

$$y = 2.2312\text{E-}004 * x + 4.9855\text{E-}006$$

$$R = 1.0000$$

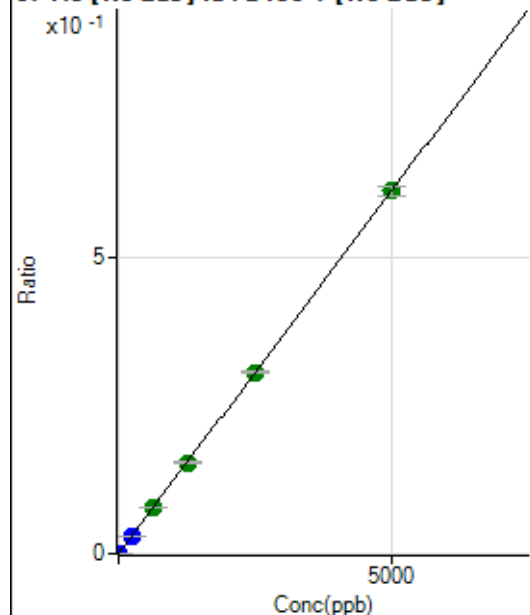
$$DL = 0.004561$$

$$BEC = 0.02234$$

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	22.22	0.0000	P	21.9
2	☐	5.000	4.633	17923.09	0.0006	P	2.5
3	☐	250.000	249.636	973531.25	0.0305	P	0.5
4	☐	625.000	637.552	2439019.54	0.0780	A	1.2
5	☐	1250.000	1248.680	4787734.65	0.1528	A	1.7
6	☐	2500.000	2497.359	9691436.33	0.3055	A	1.3
7	☐	5000.000	5000.100	19588098.35	0.6117	A	2.3
8	☐			6340.53	0.0002	P	3.9

$$y = 1.2234\text{E-}004 * x + 7.1293\text{E-}007$$

$$R = 1.0000$$

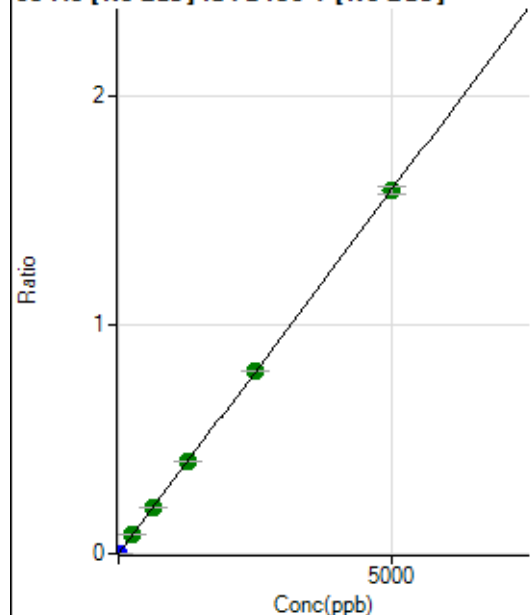
$$DL = 0.003821$$

$$BEC = 0.005827$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	53.6
2	☐	5.000	4.859	48764.16	0.0015	P	0.8
3	☐	250.000	252.533	2555196.91	0.0802	A	0.8
4	☐	625.000	635.510	6307995.54	0.2017	A	1.6
5	☐	1250.000	1269.670	12631228.15	0.4030	A	2.0
6	☐	2500.000	2508.251	25255682.33	0.7962	A	0.4
7	☐	5000.000	4989.517	50714025.79	1.5839	A	2.3
8	☐			16307.26	0.0005	P	4.2

$$y = 3.1744\text{E-}004 * x + 1.7092\text{E-}006$$

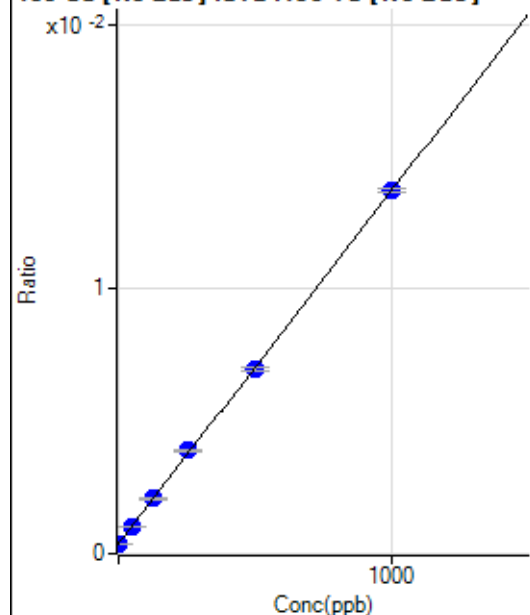
$$R = 1.0000$$

$$DL = 0.008659$$

$$BEC = 0.005384$$

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	9150.52	0.0004	P	5.5
2	☐	1.000	0.523	9425.73	0.0004	P	4.1
3	☐	50.000	48.917	25685.74	0.0010	P	1.9
4	☐	125.000	128.441	50602.02	0.0021	P	4.0
5	☐	250.000	263.082	94557.68	0.0039	P	2.1
6	☐	500.000	493.992	172935.00	0.0070	P	1.4
7	☐	1000.000	999.358	337525.03	0.0137	P	1.1
8	☐			9081.02	0.0004	P	4.6

$$y = 1.3334\text{E-}005 * x + 3.7947\text{E-}004$$

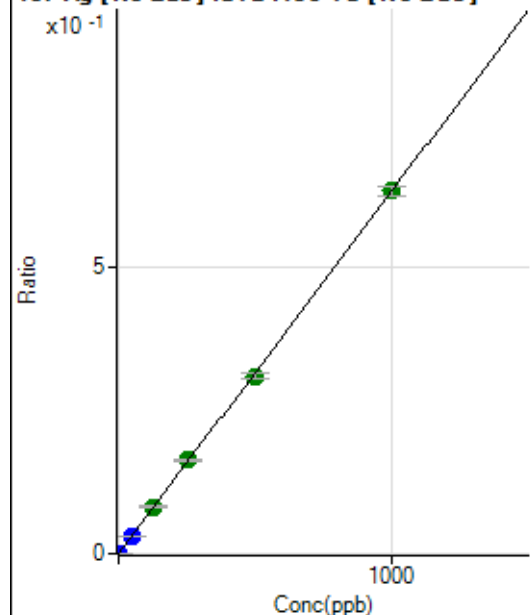
$$R = 0.9999$$

$$DL = 4.67$$

$$BEC = 28.46$$

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	202.78	0.0000	P	13.0
2	☐	1.000	0.945	14747.18	0.0006	P	5.6
3	☐	50.000	50.038	786359.98	0.0316	P	0.2
4	☐	125.000	129.943	1983630.97	0.0820	A	2.4
5	☐	250.000	259.396	3981892.19	0.1637	A	1.9
6	☐	500.000	490.909	7689772.92	0.3098	A	2.8
7	☐	1000.000	1001.577	15563108.34	0.6320	A	3.0
8	☐			4181.29	0.0002	P	4.9

$$y = 6.3104\text{E-}004 * x + 8.3972\text{E-}006$$

$$R = 0.9999$$

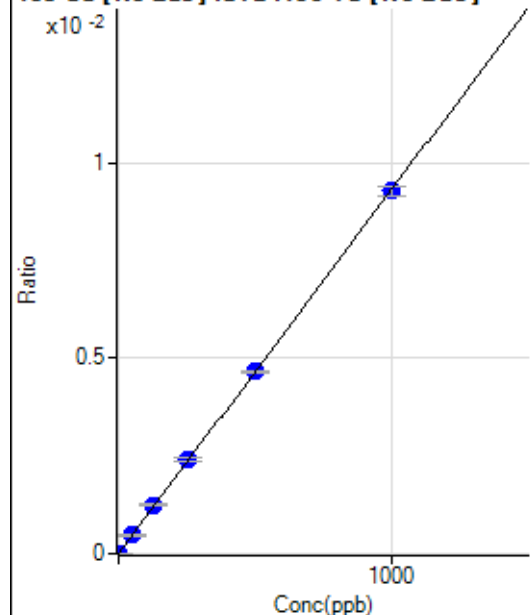
$$DL = 0.005206$$

$$BEC = 0.01331$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	15.4
2	☐	1.000	0.947	276.39	0.0000	P	9.5
3	☐	50.000	50.725	11806.51	0.0005	P	4.6
4	☐	125.000	132.727	29925.70	0.0012	P	5.1
5	☐	250.000	259.176	58710.59	0.0024	P	3.3
6	☐	500.000	499.727	115483.30	0.0047	P	0.4
7	☐	1000.000	996.840	228439.93	0.0093	P	2.3
8	☐			208.34	0.0000	P	9.5

$$y = 9.3036\text{E-}006 * x + 2.5317\text{E-}006$$

$$R = 0.9999$$

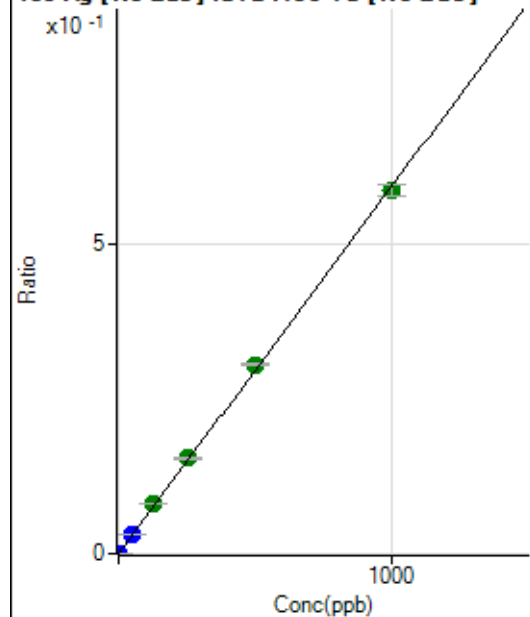
$$DL = 0.1257$$

$$BEC = 0.2721$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	58.6
2	☐	1.000	0.971	14065.94	0.0006	P	7.7
3	☐	50.000	51.052	752133.52	0.0302	P	1.6
4	☐	125.000	134.354	1923448.24	0.0795	A	0.8
5	☐	250.000	260.436	3748931.42	0.1541	A	2.9
6	☐	500.000	515.537	7574867.10	0.3051	A	1.7
7	☐	1000.000	988.400	14402801.54	0.5849	A	3.3
8	☐			3950.68	0.0002	P	9.4

$$y = 5.9180\text{E-}004 * x + 2.0531\text{E-}006$$

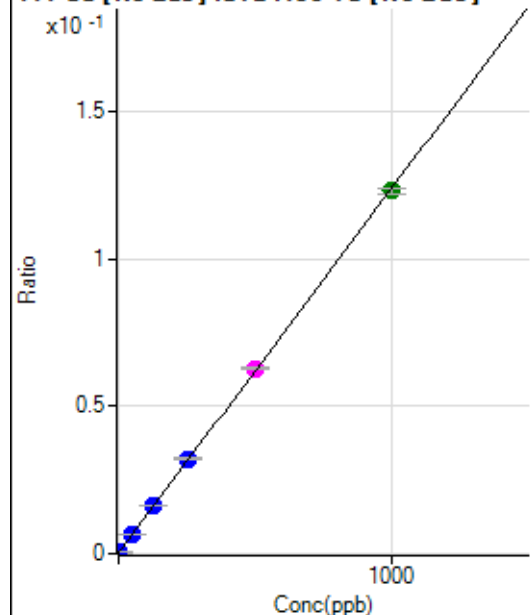
$$R = 0.9997$$

$$DL = 0.006095$$

$$BEC = 0.003469$$

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	6395.92	0.0003	P	5.4
2	☐	1.000	1.053	9643.84	0.0004	P	3.1
3	☐	50.000	50.541	162007.44	0.0065	P	1.5
4	☐	125.000	131.154	398308.49	0.0165	P	1.0
5	☐	250.000	258.838	784221.41	0.0322	P	0.9
6	☐	500.000	506.224	1558932.09	0.0628	M	0.8
7	☐	1000.000	993.882	3029789.44	0.1230	A	1.8
8	☐			6969.25	0.0003	P	4.6

$$y = 1.2352\text{E-}004 * x + 2.6524\text{E-}004$$

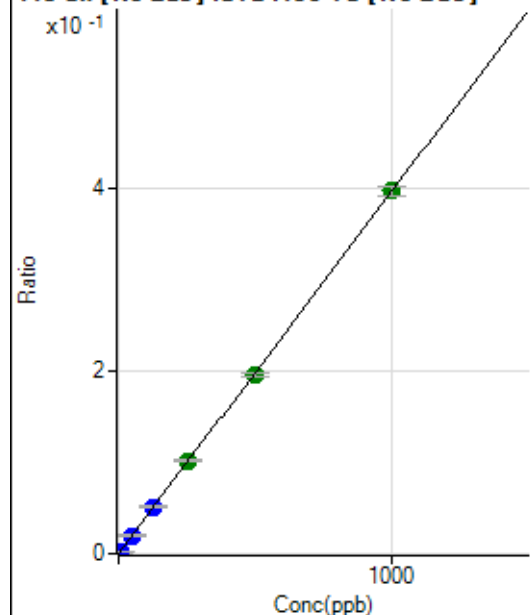
$$R = 0.9999$$

$$DL = 0.349$$

$$BEC = 2.147$$

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	4667.65	0.0002	P	3.4
2	☐	5.000	4.859	51737.31	0.0021	P	4.9
3	☐	50.000	49.700	495660.64	0.0199	P	2.0
4	☐	125.000	128.609	1238887.63	0.0512	P	1.7
5	☐	250.000	256.202	2477130.55	0.1018	A	2.7
6	☐	500.000	492.180	4852607.70	0.1955	A	2.2
7	☐	1000.000	1001.924	9792577.47	0.3977	A	2.7
8	☐			5164.99	0.0002	P	4.9

$$y = 3.9673\text{E-}004 * x + 1.9375\text{E-}004$$

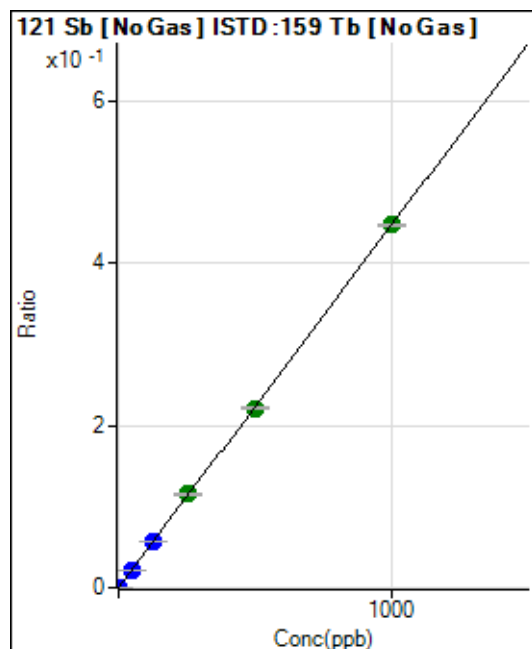
$$R = 0.9999$$

$$DL = 0.04948$$

$$BEC = 0.4884$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.34	0.0000	P	7.3
2	☐	2.000	1.947	21350.50	0.0009	P	3.6
3	☐	50.000	49.007	545736.03	0.0219	P	1.7
4	☐	125.000	127.928	1384196.55	0.0572	P	1.5
5	☐	250.000	257.182	2798363.24	0.1150	A	0.9
6	☐	500.000	494.941	5496060.49	0.2214	A	0.6
7	☐	1000.000	1000.418	11020957.02	0.4475	A	0.3
8	☐			9181.12	0.0004	P	3.6

$$y = 4.4727\text{E-}004 * x + 4.4972\text{E-}006$$

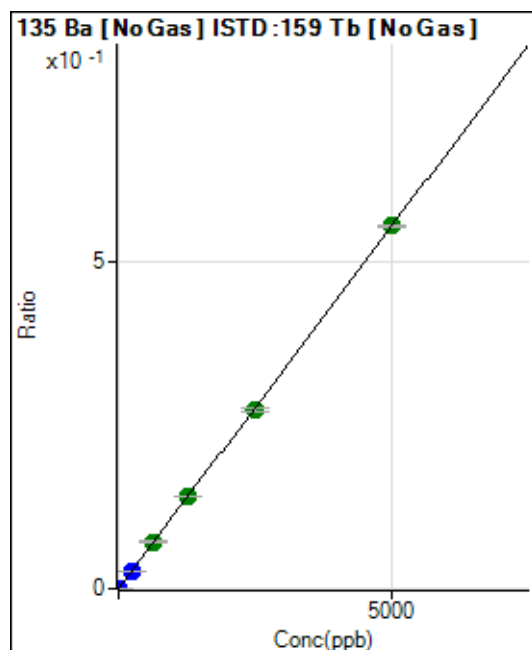
$$R = 0.9999$$

$$DL = 0.00219$$

$$BEC = 0.01005$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.56	0.0000	P	12.2
2	☐	10.000	9.540	26017.26	0.0011	P	0.5
3	☐	250.000	240.307	663362.45	0.0267	P	3.0
4	☐	625.000	649.954	1743205.81	0.0721	A	2.2
5	☐	1250.000	1277.966	3446737.62	0.1417	A	1.4
6	☐	2500.000	2465.615	6787049.15	0.2734	A	1.9
7	☐	5000.000	5007.567	13673962.72	0.5552	A	0.5
8	☐			31893.82	0.0013	P	1.5

$$y = 1.1087\text{E-}004 * x + 8.5466\text{E-}006$$

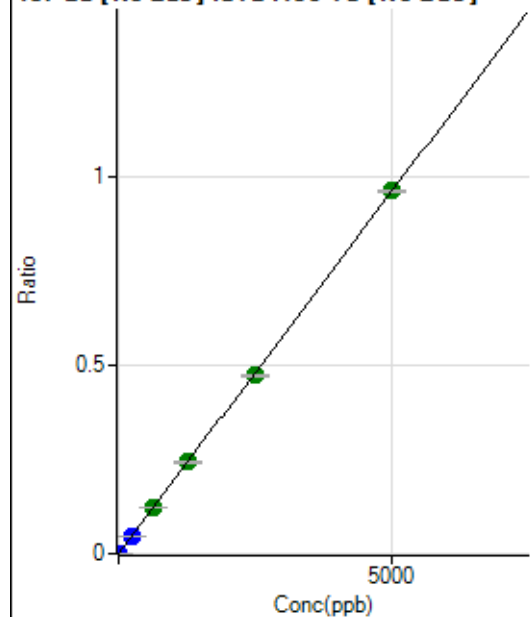
$$R = 0.9999$$

$$DL = 0.02818$$

$$BEC = 0.07709$$

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	269.46	0.0000	P	28.2
2	☐	10.000	9.681	45638.82	0.0019	P	3.8
3	☐	250.000	244.340	1168768.06	0.0470	P	1.7
4	☐	625.000	641.521	2981533.42	0.1233	A	1.5
5	☐	1250.000	1265.699	5915140.32	0.2432	A	2.0
6	☐	2500.000	2459.779	11731389.67	0.4726	A	1.3
7	☐	5000.000	5014.404	23728185.77	0.9634	A	0.4
8	☐			55472.67	0.0023	P	2.3

$$y = 1.9212\text{E-}004 * x + 1.1200\text{E-}005$$

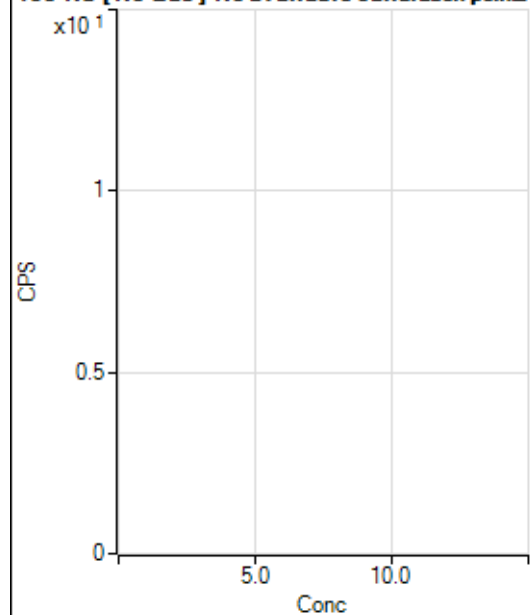
R = 0.9999

DL = 0.0493

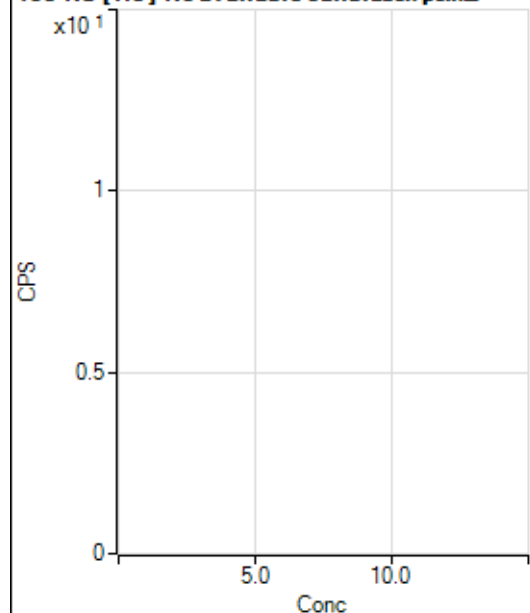
BEC = 0.0583

Weight: <None>

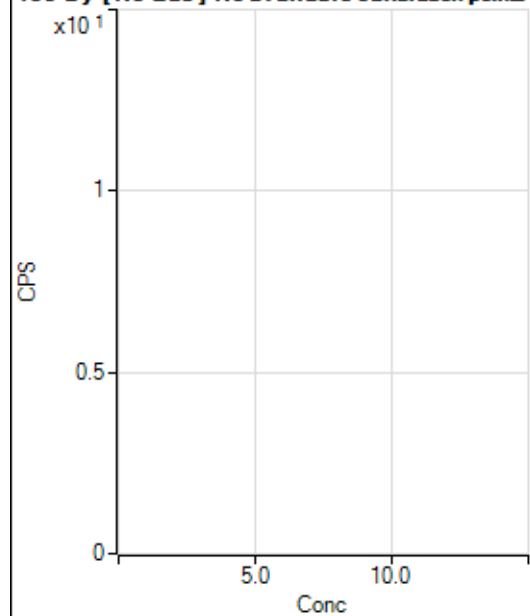
Min Conc: 0

150 Nd [No Gas] No available calibration points

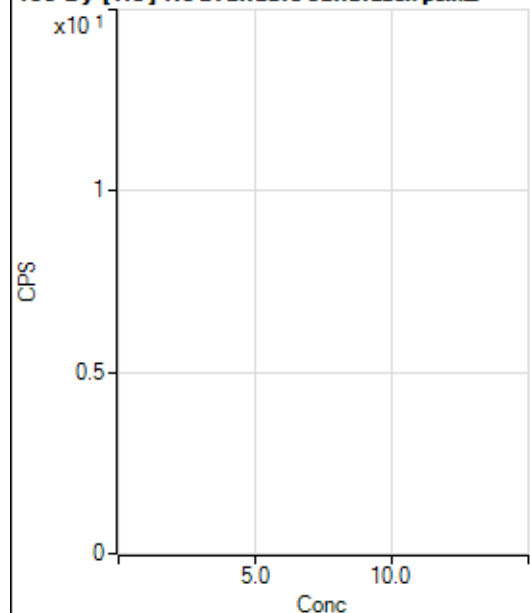
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	114.5
2	☐			17.78		P	57.3
3	☐			46.66		P	24.7
4	☐			73.34		P	18.2
5	☐			164.45		P	2.3
6	☐			315.56		P	13.7
7	☐			566.69		P	6.6
8	☐			53.33		P	12.5

150 Nd [He] No available calibration points

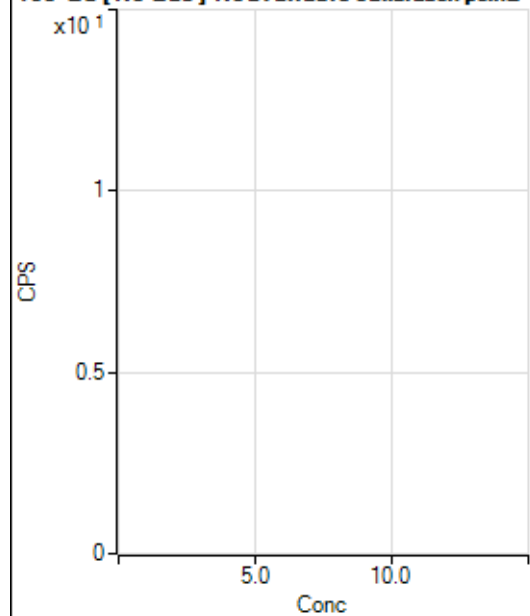
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			10.00		P	33.3
5	☐			17.78		P	10.8
6	☐			25.56		P	32.8
7	☐			44.45		P	24.1
8	☐			11.11		P	34.6

156 Dy [No Gas] No available calibration points

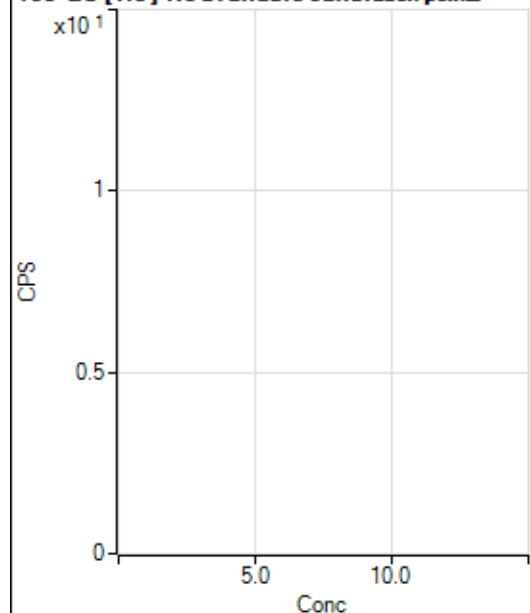
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	65.5
2	☐			19.45		P	24.7
3	☐			47.22		P	27.0
4	☐			116.67		P	21.4
5	☐			180.56		P	13.3
6	☐			391.69		P	26.6
7	☐			725.04		P	4.6
8	☐			1883.52		P	3.8

156 Dy [He] No available calibration points

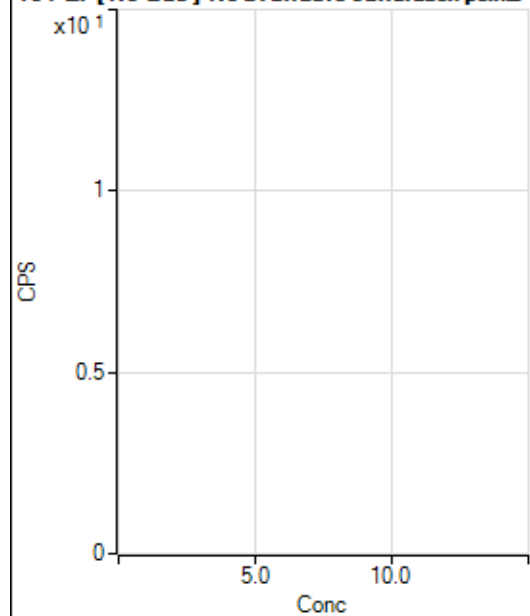
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			5.56		P	34.7
3	☐			15.56		P	12.4
4	☐			35.56		P	48.1
5	☐			75.55		P	22.2
6	☐			124.45		P	36.4
7	☐			270.01		P	4.5
8	☐			867.81		P	5.5

160 Gd [No Gas] Noavailable calibration poin_

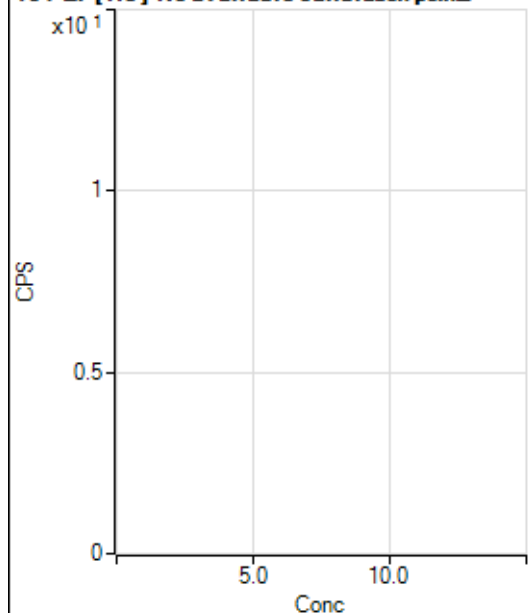
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			188.90		P	25.1
2	☐			163.89		P	28.0
3	☐			194.45		P	24.4
4	☐			272.23		P	9.4
5	☐			369.46		P	18.4
6	☐			547.25		P	4.4
7	☐			827.83		P	15.1
8	☐			2294.71		P	1.8

160 Gd [He] No available calibration points

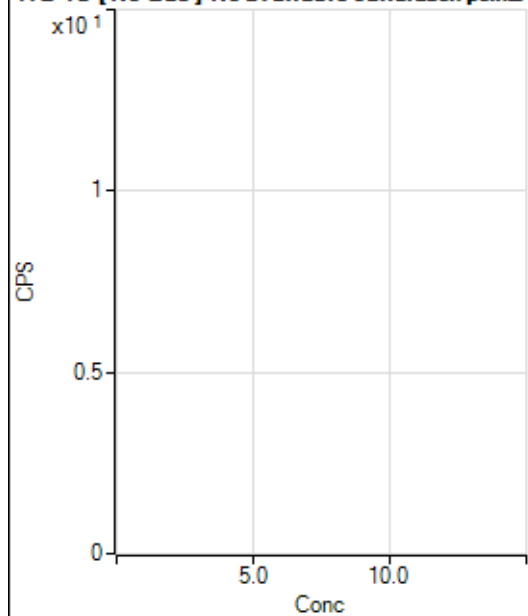
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90.00		P	31.6
2	☐			57.78		P	43.7
3	☐			65.56		P	7.8
4	☐			97.78		P	5.2
5	☐			140.00		P	6.3
6	☐			238.89		P	9.5
7	☐			421.12		P	8.1
8	☐			1053.39		P	1.4

164 Er [No Gas] No available calibration points

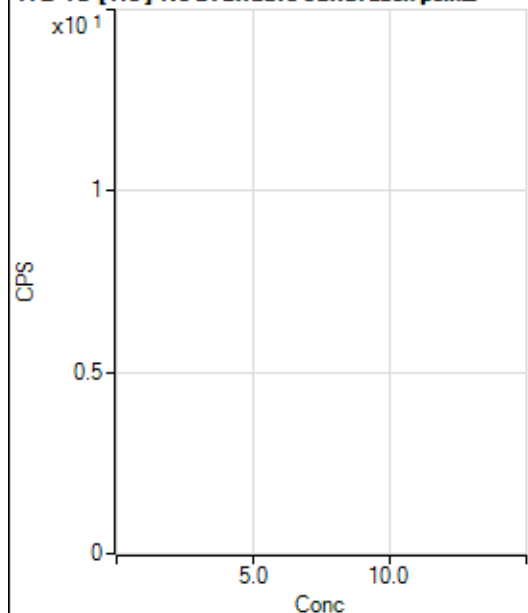
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			136.12		P	18.7
2	☐			172.23		P	32.2
3	☐			133.34		P	27.2
4	☐			177.78		P	22.2
5	☐			161.12		P	26.0
6	☐			208.34		P	24.0
7	☐			291.68		P	7.6
8	☐			422.24		P	4.1

164 Er [He] No available calibration points

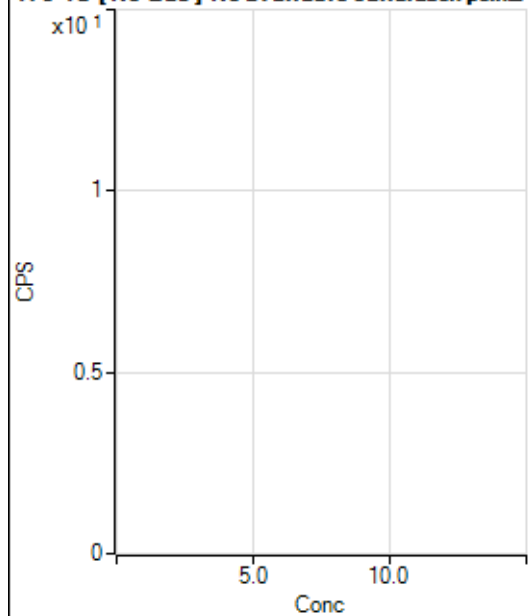
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	17.2
2	☐			52.22		P	24.2
3	☐			52.22		P	3.7
4	☐			50.00		P	6.7
5	☐			82.22		P	33.8
6	☐			68.89		P	22.4
7	☐			108.89		P	20.8
8	☐			162.22		P	24.5

172 Yb [No Gas] No available calibration points

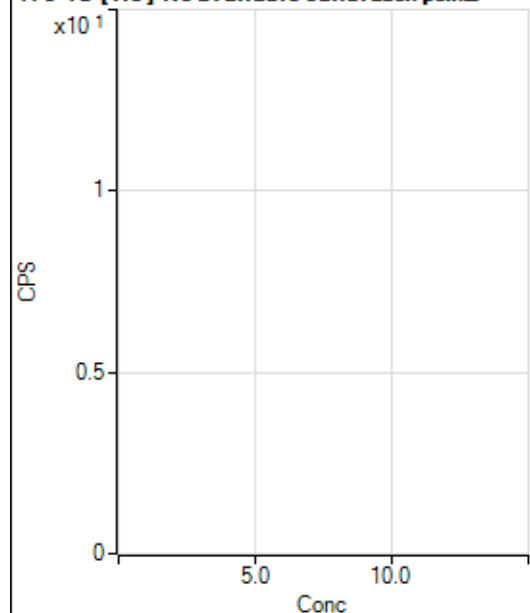
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	60.1
2	☐			66.67		P	50.0
3	☐			58.33		P	14.3
4	☐			80.56		P	29.9
5	☐			61.11		P	39.4
6	☐			86.11		P	58.3
7	☐			94.45		P	10.2
8	☐			119.45		P	22.4

172 Yb [He] No available calibration points

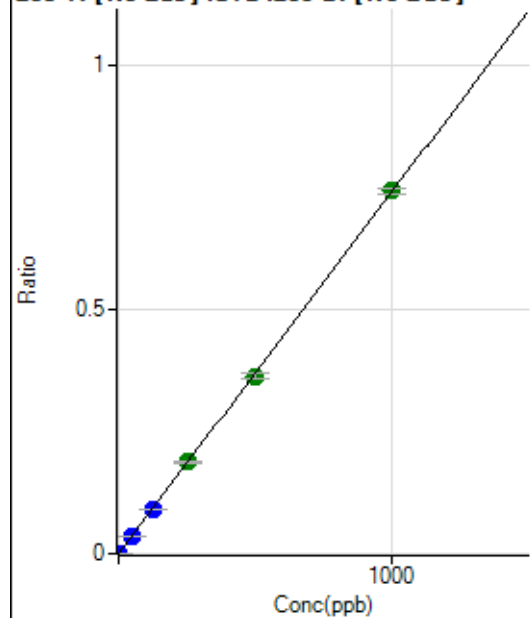
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.34		P	76.4
2	☐			38.89		P	24.7
3	☐			31.48		P	10.2
4	☐			35.19		P	59.8
5	☐			35.18		P	39.7
6	☐			29.63		P	28.6
7	☐			18.52		P	69.3
8	☐			64.82		P	34.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2797.60		P	4.6
2	☐			2953.19		P	6.2
3	☐			2961.54		P	7.8
4	☐			2847.61		P	2.4
5	☐			2933.73		P	2.0
6	☐			3011.54		P	3.0
7	☐			2864.29		P	5.0
8	☐			2830.94		P	5.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4408.23		P	1.4
2	☐			2922.61		P	8.4
3	☐			2424.34		P	6.3
4	☐			2313.22		P	3.9
5	☐			2157.62		P	6.6
6	☐			2076.13		P	12.7
7	☐			2059.47		P	10.3
8	☐			2152.07		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	361.13	0.0000	P	3.3
2	☐	1.000	0.964	10818.73	0.0007	P	4.6
3	☐	50.000	46.789	515659.18	0.0347	P	1.1
4	☐	125.000	120.462	1328852.47	0.0892	P	1.0
5	☐	250.000	254.541	2759680.57	0.1885	A	1.5
6	☐	500.000	491.522	5354198.04	0.3640	A	2.7
7	☐	1000.000	1003.832	10505888.34	0.7433	A	1.7
8	☐			2358.62	0.0002	P	8.1

$$y = 7.4046E-004 * x + 2.4804E-005$$

$$R = 0.9999$$

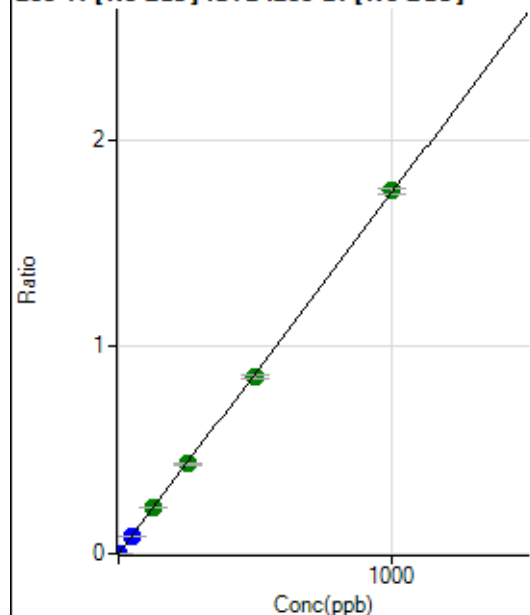
$$DL = 0.003279$$

$$BEC = 0.0335$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	813.94	0.0001	P	18.1
2	☐	1.000	0.942	24899.51	0.0017	P	3.0
3	☐	50.000	47.562	1234755.25	0.0830	P	1.8
4	☐	125.000	126.360	3283938.09	0.2205	A	0.4
5	☐	250.000	249.488	6372114.68	0.4353	A	1.9
6	☐	500.000	489.787	12570341.25	0.8545	A	1.8
7	☐	1000.000	1005.186	24784616.35	1.7535	A	1.6
8	☐			5487.43	0.0004	P	6.1

$$y = 0.0017 * x + 5.6230E-005$$

$$R = 0.9999$$

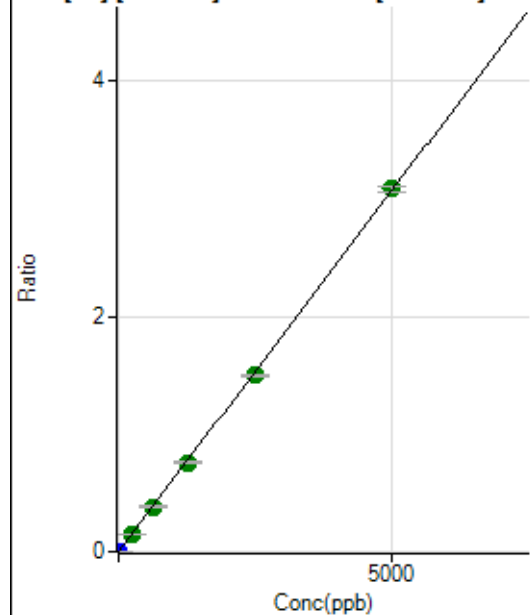
$$DL = 0.01747$$

$$BEC = 0.03223$$

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	1000.06	0.0001	P	9.4
2	☐	1.000	0.914	9223.79	0.0006	P	5.9
3	☐	250.000	243.341	2220272.13	0.1493	A	0.6
4	☐	625.000	626.413	5722080.80	0.3842	A	2.3
5	☐	1250.000	1237.031	11106081.73	0.7586	A	1.3
6	☐	2500.000	2444.089	22050873.87	1.4987	A	0.8
7	☐	5000.000	5031.354	43604927.36	3.0852	A	1.9
8	☐			20852.18	0.0016	P	2.2

$$y = 6.1318E-004 * x + 6.8951E-005$$

$$R = 0.9999$$

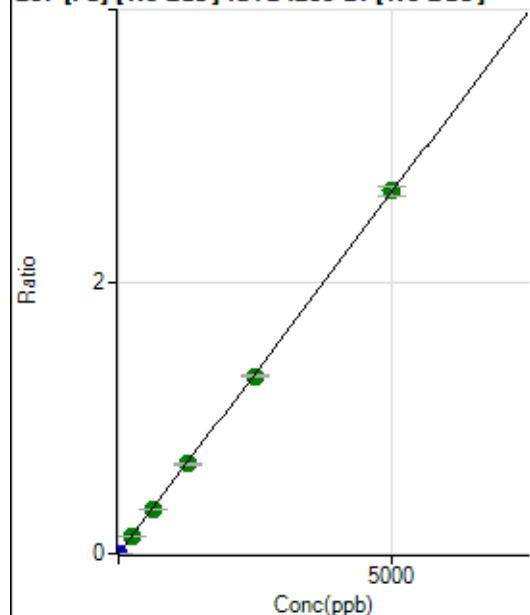
$$DL = 0.03166$$

$$BEC = 0.1124$$

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	833.38	0.0001	P	8.7
2	☐	1.000	0.957	8289.84	0.0006	P	4.9
3	☐	250.000	244.564	1932412.86	0.1299	A	2.3
4	☐	625.000	620.319	4907442.18	0.3295	A	0.5
5	☐	1250.000	1243.518	9668649.75	0.6604	A	1.4
6	☐	2500.000	2461.032	19231847.88	1.3070	A	1.3
7	☐	5000.000	5021.961	37689147.14	2.6671	A	2.8
8	☐			18459.66	0.0014	P	1.3

$$y = 5.3107\text{E-}004 * x + 5.7380\text{E-}005$$

$$R = 1.0000$$

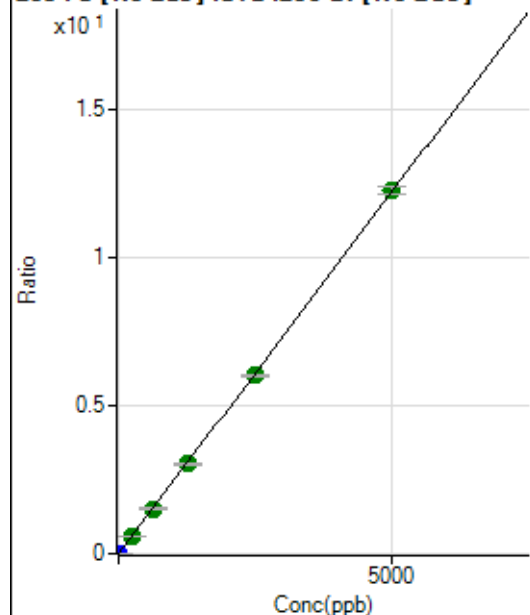
$$DL = 0.02812$$

$$BEC = 0.108$$

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	3850.30	0.0003	P	8.9
2	☐	1.000	0.937	37303.08	0.0025	P	4.2
3	☐	250.000	243.479	8820672.07	0.5931	A	1.2
4	☐	625.000	622.296	22569770.82	1.5154	A	1.2
5	☐	1250.000	1239.454	44181219.97	3.0181	A	1.9
6	☐	2500.000	2463.106	88237444.10	5.9974	A	1.1
7	☐	5000.000	5021.748	172804996.9	12.2271	A	2.0
8	☐			82892.84	0.0065	P	1.2

$$y = 0.0024 * x + 2.6542\text{E-}004$$

$$R = 1.0000$$

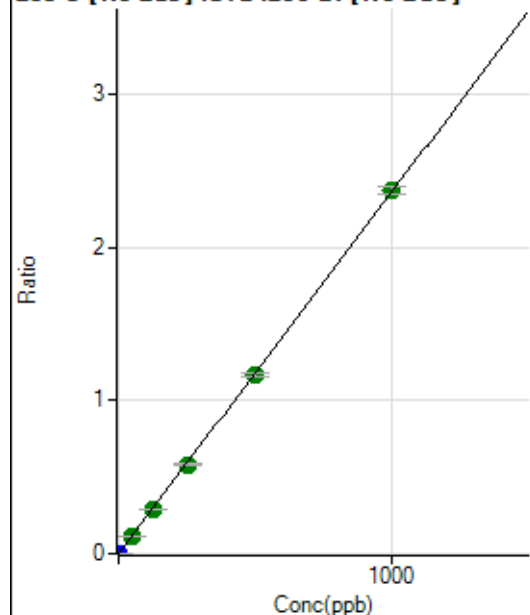
$$DL = 0.02902$$

$$BEC = 0.109$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	1.000	0.907	31383.95	0.0021	P	3.3
3	☐	50.000	47.893	1682476.62	0.1131	A	1.3
4	☐	125.000	122.884	4322520.89	0.2902	A	1.4
5	☐	250.000	245.327	8482021.80	0.5794	A	1.7
6	☐	500.000	495.613	17220829.90	1.1705	A	1.7
7	☐	1000.000	1003.732	33500718.45	2.3706	A	2.3
8	☐			3670.09	0.0003	P	11.8

$$y = 0.0024 * x + 0.0000E+000$$

$$R = 1.0000$$

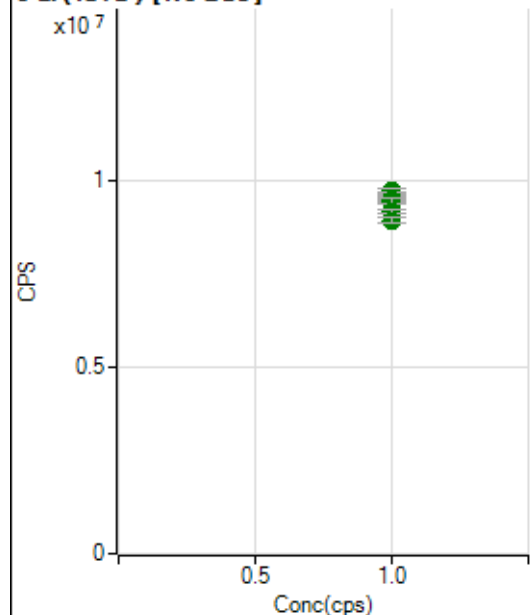
$$DL = 0$$

$$BEC = 0$$

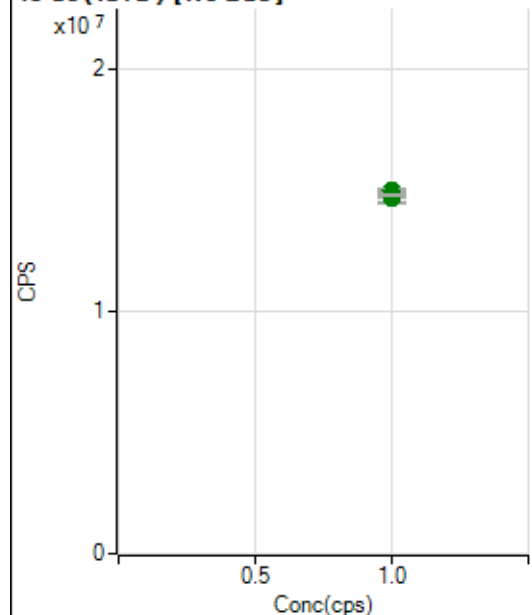
Weight: <None>

Min Conc: 0

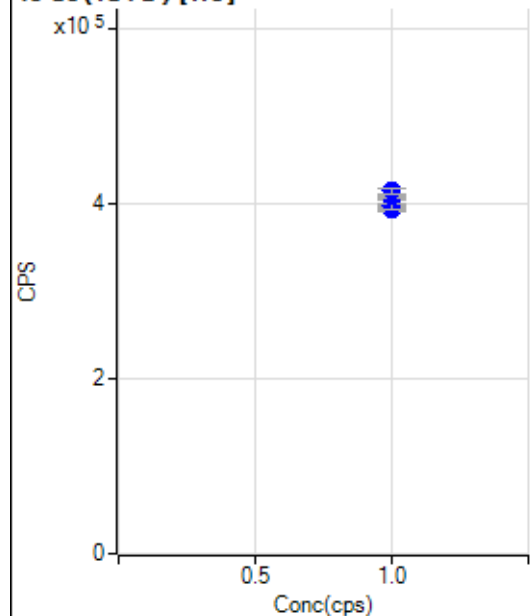
6 Li (ISTD) [No Gas]



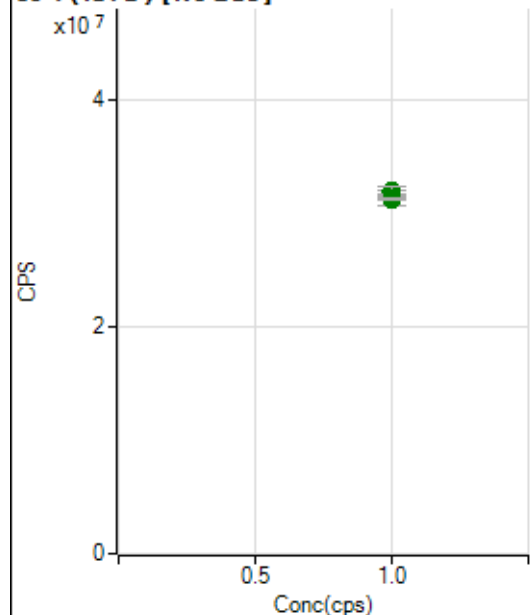
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		9408920.90		A	3.9
2	☐	1.000		9477362.71		A	0.8
3	☐	1.000		9726098.46		A	1.3
4	☐	1.000		9553086.65		A	2.7
5	☐	1.000		9443619.96		A	1.1
6	☐	1.000		9476166.53		A	1.7
7	☐	1.000		9169908.46		A	1.1
8	☐	1.000		8933643.14		A	1.5

45 Sc (ISTD) [No Gas]

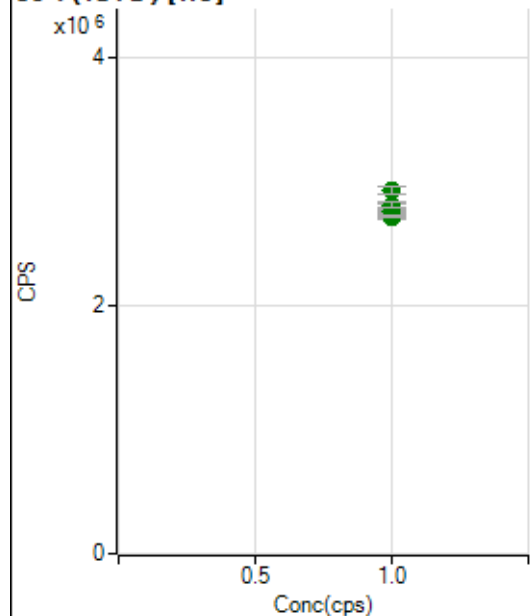
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14717162.70		A	3.4
2	☐	1.000		14899735.33		A	1.6
3	☐	1.000		14969932.69		A	1.5
4	☐	1.000		14689102.83		A	1.5
5	☐	1.000		14737400.89		A	0.8
6	☐	1.000		14995120.19		A	0.7
7	☐	1.000		14992888.66		A	1.7
8	☐	1.000		14826806.45		A	0.4

45 Sc (ISTD) [He]

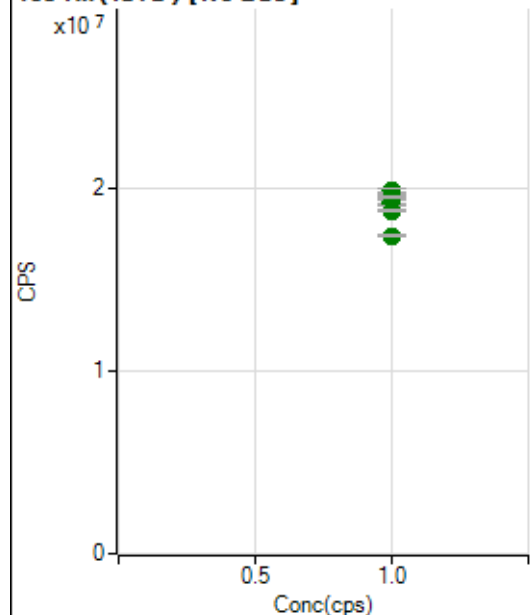
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		396594.89		P	0.9
2	☐	1.000		399619.42		P	0.1
3	☐	1.000		396155.11		P	0.6
4	☐	1.000		399930.21		P	1.9
5	☐	1.000		392232.26		P	0.8
6	☐	1.000		396535.90		P	1.4
7	☐	1.000		407157.87		P	0.5
8	☐	1.000		413987.63		P	1.4

89 Y (ISTD) [No Gas]

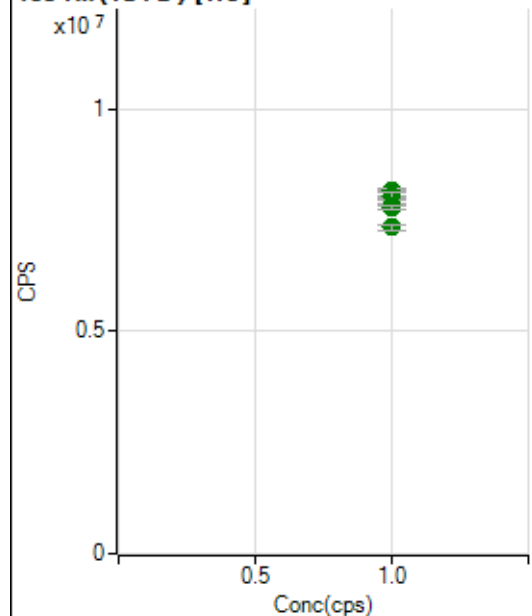
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		31188169.54		A	3.0
2	☐	1.000		31580180.36		A	1.3
3	☐	1.000		31874608.14		A	1.1
4	☐	1.000		31267411.75		A	0.7
5	☐	1.000		31343550.64		A	1.2
6	☐	1.000		31719415.36		A	0.4
7	☐	1.000		32028763.97		A	2.2
8	☐	1.000		31385555.92		A	0.6

89 Y (ISTD) [He]

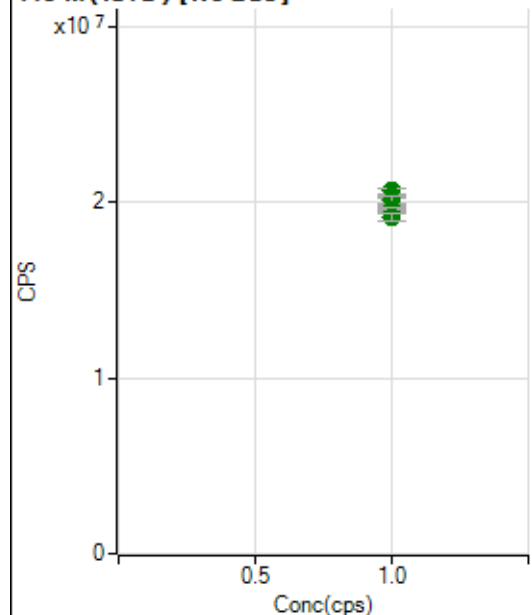
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2740019.26		A	1.5
2	☐	1.000		2756193.95		A	0.8
3	☐	1.000		2709223.47		A	1.0
4	☐	1.000		2767136.19		A	1.4
5	☐	1.000		2722146.57		A	1.0
6	☐	1.000		2799735.24		A	1.2
7	☐	1.000		2810666.42		A	1.3
8	☐	1.000		2924927.04		A	2.1

103 Rh (ISTD) [No Gas]

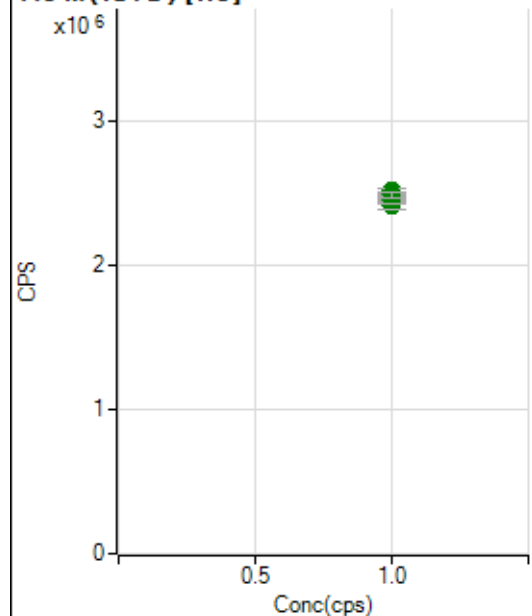
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19710719.02		A	3.0
2	☐	1.000		19686671.62		A	0.4
3	☐	1.000		19836999.23		A	1.7
4	☐	1.000		19272042.79		A	1.5
5	☐	1.000		19176844.70		A	1.5
6	☐	1.000		19478492.80		A	0.4
7	☐	1.000		18742054.24		A	0.8
8	☐	1.000		17382122.78		A	0.9

103 Rh (ISTD) [He]

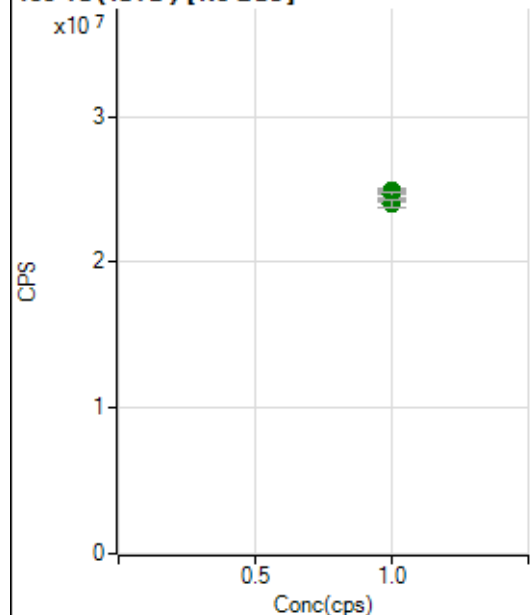
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8121680.85		A	1.6
2	☐	1.000		8159230.09		A	0.9
3	☐	1.000		7996786.55		A	0.5
4	☐	1.000		8056272.80		A	2.0
5	☐	1.000		7845293.98		A	0.6
6	☐	1.000		7790486.83		A	0.7
7	☐	1.000		7783853.15		A	0.8
8	☐	1.000		7338436.07		A	2.0

115 In (ISTD) [No Gas]

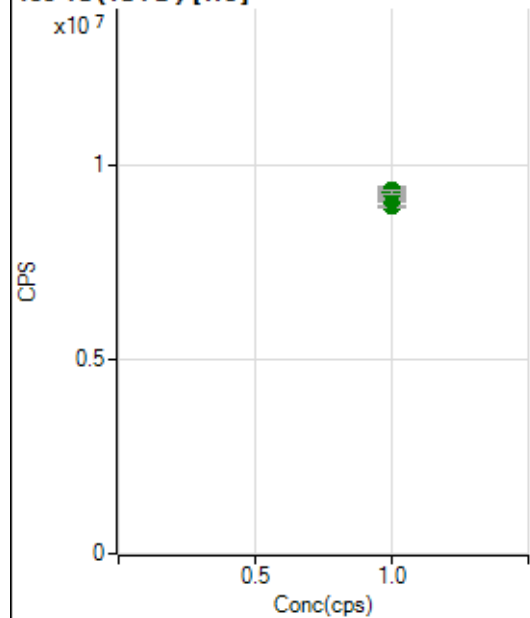
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19875516.25		A	4.2
2	☐	1.000		20323360.33		A	0.7
3	☐	1.000		20666101.37		A	1.5
4	☐	1.000		20378409.45		A	1.4
5	☐	1.000		19749765.22		A	1.2
6	☐	1.000		20183038.28		A	1.9
7	☐	1.000		19635425.10		A	0.7
8	☐	1.000		19119038.27		A	2.3

115 In (ISTD) [He]

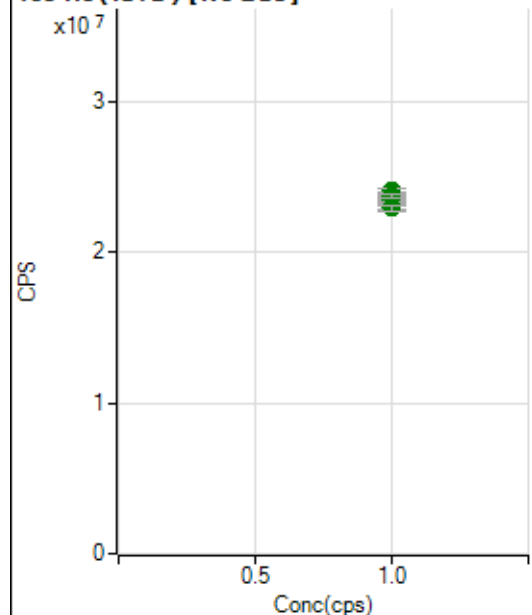
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2469178.79		A	1.0
2	☐	1.000		2517327.58		A	1.7
3	☐	1.000		2472393.07		A	0.7
4	☐	1.000		2498024.67		A	0.8
5	☐	1.000		2473720.49		A	1.4
6	☐	1.000		2413035.53		A	2.5
7	☐	1.000		2448848.52		A	1.5
8	☐	1.000		2493889.14		A	1.6

159 Tb (ISTD) [No Gas]

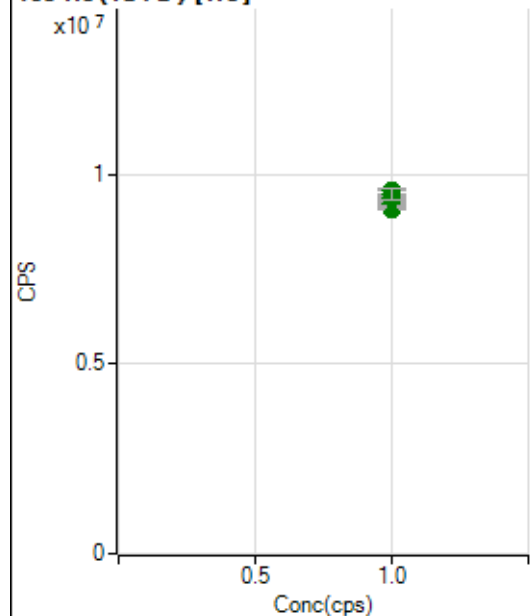
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		24091816.86		A	2.8
2	☐	1.000		24403356.86		A	1.9
3	☐	1.000		24897116.02		A	1.6
4	☐	1.000		24191261.30		A	0.8
5	☐	1.000		24328149.64		A	1.2
6	☐	1.000		24826157.69		A	0.9
7	☐	1.000		24630604.63		A	1.6
8	☐	1.000		24020954.92		A	2.0

159 Tb (ISTD) [He]

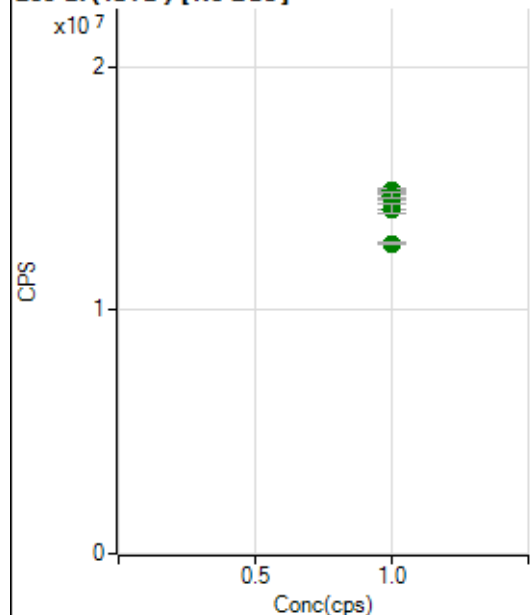
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8939514.73		A	0.4
2	☐	1.000		9087613.96		A	1.0
3	☐	1.000		9156161.74		A	1.7
4	☐	1.000		9326207.85		A	2.5
5	☐	1.000		9232154.79		A	1.3
6	☐	1.000		9243237.64		A	1.6
7	☐	1.000		9332235.97		A	1.2
8	☐	1.000		9312813.47		A	1.0

165 Ho (ISTD) [No Gas]

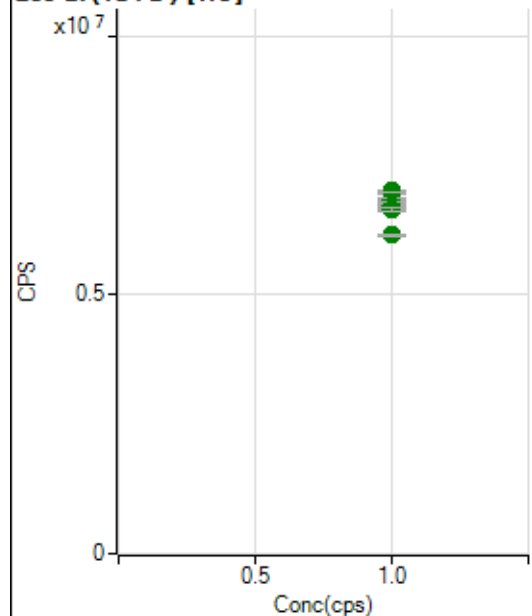
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		23162317.36		A	2.4
2	☐	1.000		23393190.11		A	1.8
3	☐	1.000		23685682.13		A	2.5
4	☐	1.000		23537355.91		A	1.5
5	☐	1.000		23501873.79		A	1.6
6	☐	1.000		24073026.41		A	0.9
7	☐	1.000		23753969.63		A	1.2
8	☐	1.000		22914417.87		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9082730.07		A	0.4
2	☐	1.000		9278104.37		A	0.7
3	☐	1.000		9213853.89		A	1.7
4	☐	1.000		9476803.47		A	2.2
5	☐	1.000		9310595.90		A	2.6
6	☐	1.000		9397289.23		A	1.5
7	☐	1.000		9571895.28		A	1.5
8	☐	1.000		9468706.59		A	3.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14552063.40		A	5.3
2	☐	1.000		14660516.45		A	2.2
3	☐	1.000		14873383.39		A	0.7
4	☐	1.000		14894524.22		A	0.9
5	☐	1.000		14641330.34		A	1.3
6	☐	1.000		14713645.20		A	1.3
7	☐	1.000		14137782.85		A	2.8
8	☐	1.000		12741906.75		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6821769.62		A	0.5
2	☐	1.000		7004540.03		A	0.8
3	☐	1.000		6846001.43		A	2.5
4	☐	1.000		6981747.19		A	0.5
5	☐	1.000		6800737.47		A	1.9
6	☐	1.000		6716885.25		A	2.1
7	☐	1.000		6645792.82		A	1.4
8	☐	1.000		6144703.10		A	1.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8082421MS.b
Acq. Date-Time 2021-08-24 11:05:47
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		27487	274873.37			2.539	5.000
24		262281	2622812.67			2.611	5.000
25		35620	356204.24			2.532	5.000
26		41115	411151.39			2.773	5.000
59		50540	505402.24			2.583	5.000
113		22923	229227.77			2.430	5.000
115		67748	677481.38			2.778	5.000
206		29494	294940.84			2.592	5.000
207		24715	247145.90			2.491	5.000
208		61912	619123.51			2.515	5.000
220		0	3.90			33.185	

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

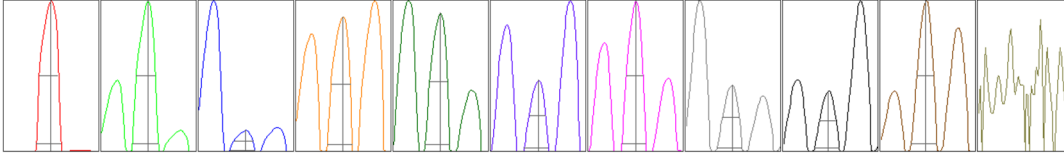
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	27947	26266	27830	27840	27553
24	265980	252300	268412	266636	258078
25	36239	34218	36530	35743	35372
26	41584	39212	42215	41494	41070
59	51233	48260	51496	50972	50741
113	23021	21943	23209	23297	23144
115	69466	64675	69052	67964	67584
206	29681	28145	30009	29763	29873
207	24700	23653	25103	25093	25023
208	62022	59198	62896	62854	62591

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	48478.43	9.00	8.90 - 9.10	
24	465776.66	24.00	23.90 - 24.10	
25	62667.41	25.00	24.90 - 25.10	
26	71756.57	26.00	25.90 - 26.10	
59	94107.09	59.00	58.90 - 59.10	
113	45489.63	113.05	112.90 - 113.10	
115	134121.36	115.05	114.90 - 115.10	
206	56904.82	206.00	205.90 - 206.10	
207	47552.88	206.95	206.90 - 207.10	
208	118881.30	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.780	0.900	
24	0.60	0.823	0.900	
25	0.60	0.786	0.900	
26	0.61	0.785	0.900	
59	0.56	0.775	0.900	
113	0.51	0.767	0.900	
115	0.52	0.765	0.900	
206	0.53	0.783	0.900	
207	0.53	0.782	0.900	
208	0.53	0.809	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 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	1.40 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	10.1 V	Deflect	14.2 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.1 mV	Analog HV	2220 V	Pulse HV	1517 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10002	100018.65			2.593	
89		28150	281503.29			2.354	
205		32192	321920.06			2.706	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10098	10225	9556	10106	10024
89	28244	28740	27025	28504	28239
205	32450	32952	30686	32397	32476

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 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	10.1 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	190 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.1 mV	Analog HV	2220 V	Pulse HV	1517 V