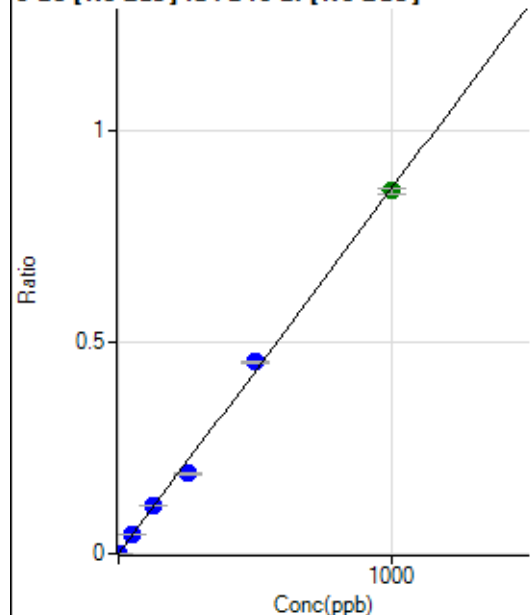


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7052924-PM.b\
Analysis File: P7052924-PM.batch.bin
DA Date-Time: 2024-09-03 14:46:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-05-29 11:52:47
2	006CALS.d	S02	2024-05-29 11:59:20
3	007CALS.d	S03	2024-05-29 12:02:35
4	008CALS.d	S04	2024-05-29 12:05:44
5	009CALS.d	S05	2024-05-29 12:08:41
6	010CALS.d	S06	2024-05-29 12:11:36
7	011CALS.d	S07	2024-05-29 12:14:22
8	012CALS.d	S08	2024-05-29 12:17:09

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	101.11	0.0001	P	9.7
2	☐	1.000	1.076	1354.52	0.0010	P	9.2
3	☐	50.000	53.903	64604.53	0.0466	P	1.8
4	☐	125.000	132.761	157688.45	0.1147	P	1.2
5	☐	250.000	219.037	249810.18	0.1892	P	1.0
6	☐	500.000	525.530	589942.86	0.4539	P	1.4
7	☐	1000.000	993.810	1092658.80	0.8582	A	1.7
8	☐			1027.82	0.0008	P	8.4

$$y = 8.6351E-004 * x + 7.3484E-005$$

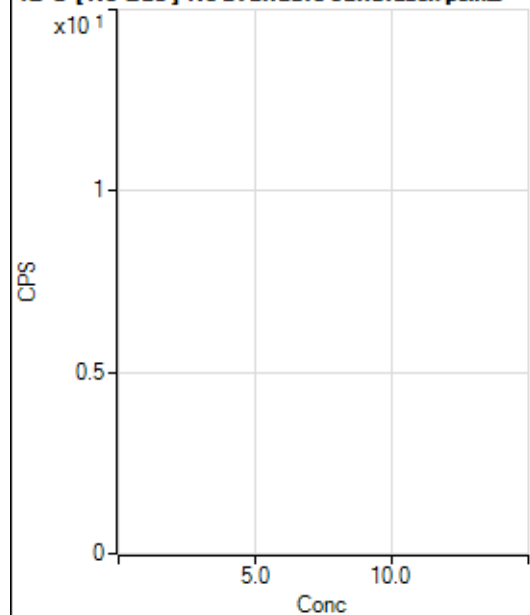
$$R = 0.9989$$

$$DL = 0.02475$$

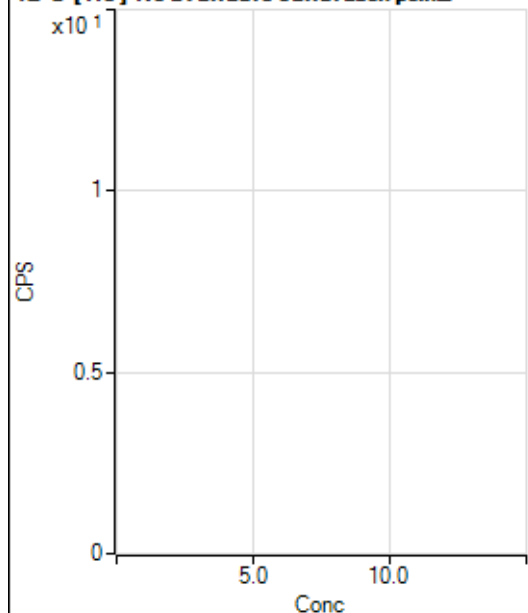
$$BEC = 0.0851$$

Weight: <None>

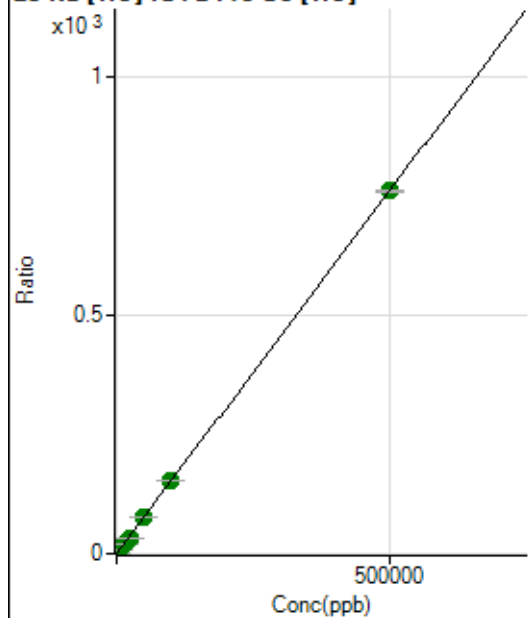
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13531.57	0.0475	P	1.4
2	☐	500.000	499.279	228566.26	0.8057	P	0.4
3	☐	5000.000	5067.616	2155528.96	7.7428	A	0.7
4	☐	12500.000	12703.587	5188541.69	19.3384	A	0.8
5	☐	25000.000	20695.561	8268310.64	31.4745	A	0.6
6	☐	50000.000	50956.475	19910350.40	77.4268	A	1.3
7	☐	100000.00	100342.77	38547249.70	152.4218	A	0.8
8	☐	500000.00	500045.25	193113123.7	759.3850	A	0.8

$$y = 0.0015 * x + 0.0475$$

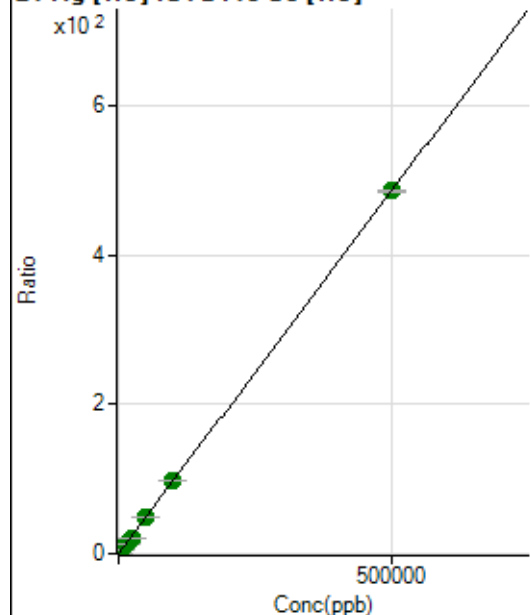
$$R = 1.0000$$

$$DL = 1.344$$

$$BEC = 31.27$$

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	1739.01	0.0061	P	5.1
2	☐	500.000	493.406	137776.58	0.4856	P	0.4
3	☐	5000.000	5091.662	1379353.68	4.9546	A	0.2
4	☐	12500.000	12746.496	3325658.70	12.3942	A	0.6
5	☐	25000.000	20867.817	5329573.84	20.2872	A	0.2
6	☐	50000.000	50766.507	12689336.06	49.3453	A	1.2
7	☐	100000.00	100053.00	24593598.52	97.2460	A	1.0
8	☐	500000.00	500112.28	123606088.1	486.0572	A	0.6

$$y = 9.7188\text{E-}004 * x + 0.0061$$

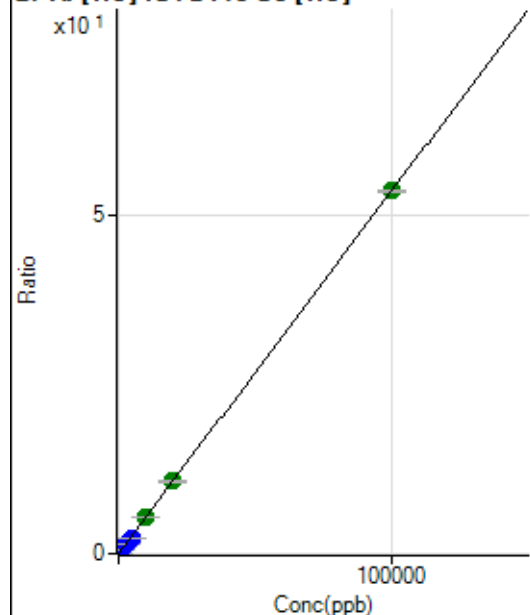
$$R = 1.0000$$

$$DL = 0.9533$$

$$BEC = 6.28$$

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	131.11	0.0005	P	23.9
2	☐	20.000	20.320	3220.37	0.0114	P	9.0
3	☐	1000.000	1041.647	155556.53	0.5588	P	0.7
4	☐	2500.000	2628.415	378130.17	1.4093	P	0.5
5	☐	5000.000	4288.980	604034.94	2.2993	P	0.6
6	☐	10000.000	9972.827	1374723.87	5.3458	A	0.9
7	☐	20000.000	19927.813	2701325.41	10.6817	A	0.7
8	☐	100000.00	100049.07	13637291.88	53.6262	A	0.4

$$y = 5.3599\text{E-}004 * x + 4.6026\text{E-}004$$

$$R = 1.0000$$

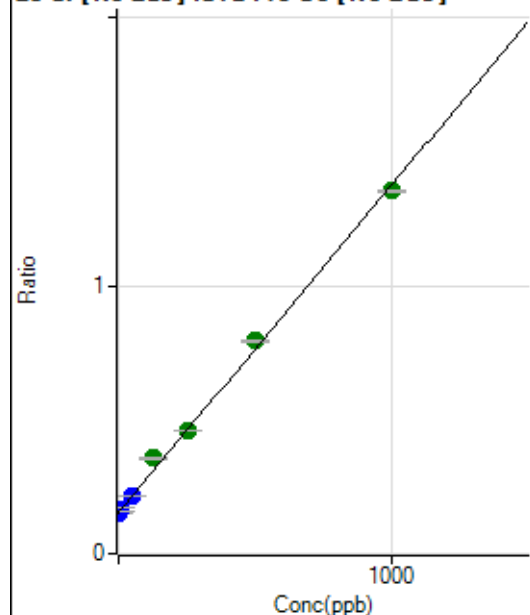
$$DL = 0.6149$$

$$BEC = 0.8587$$

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	525565.56	0.1534	P	1.3
2	☐	10.000	8.660	540548.23	0.1640	P	7.9
3	☐	50.000	51.613	741405.86	0.2165	P	1.0
4	☐	125.000	166.093	1175491.72	0.3562	A	2.3
5	☐	250.000	250.062	1478611.96	0.4587	A	0.8
6	☐	500.000	524.301	2490315.34	0.7935	A	1.1
7	☐	1000.000	982.630	4124974.07	1.3531	A	0.4
8	☐			637330.74	0.2052	P	0.5

$$y = 0.0012 * x + 0.1534$$

$$R = 0.9987$$

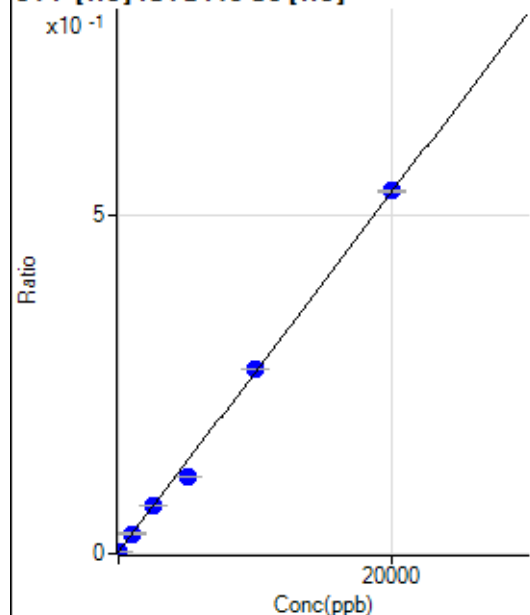
$$DL = 5.006$$

$$BEC = 125.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-14.121	637.80	0.0022	P	4.8
2	☐	0.000	14.121	847.81	0.0030	P	5.4
3	☐	1000.000	1015.746	8242.29	0.0296	P	2.4
4	☐	2500.000	2576.720	19075.31	0.0711	P	0.4
5	☐	5000.000	4205.057	30045.05	0.1144	P	1.1
6	☐	10000.000	10195.054	70350.70	0.2736	P	0.6
7	☐	20000.000	20090.832	135696.09	0.5366	P	0.8
8	☐			717.80	0.0028	P	11.2

$$y = 2.6577E-005 * x + 0.0026$$

$$R = 0.9990$$

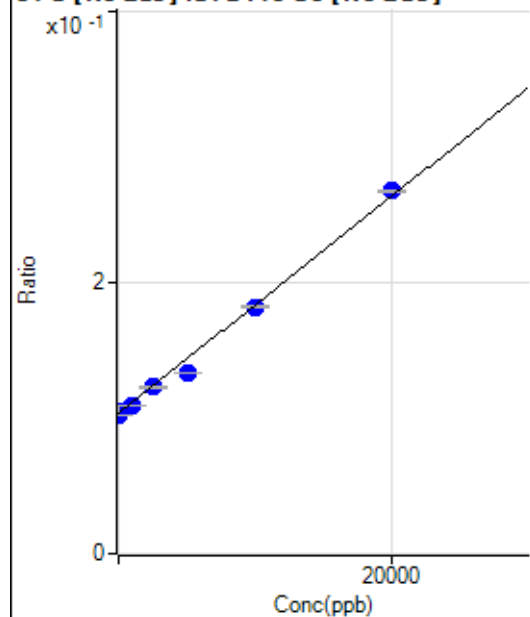
$$DL = 15.15$$

$$BEC = 98.33$$

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	-222.013	349233.14	0.1020	P	1.1
2	☐	0.000	222.013	347838.54	0.1055	P	7.4
3	☐	1000.000	699.487	374488.01	0.1093	P	0.3
4	☐	2500.000	2374.787	405024.21	0.1227	P	0.7
5	☐	5000.000	3698.152	429699.48	0.1333	P	0.8
6	☐	10000.000	9746.905	570174.87	0.1817	P	0.8
7	☐	20000.000	20482.687	815585.07	0.2675	P	0.5
8	☐			323103.27	0.1040	P	0.9

$$y = 7.9970\text{E-}006 * x + 0.1037$$

$$R = 0.9975$$

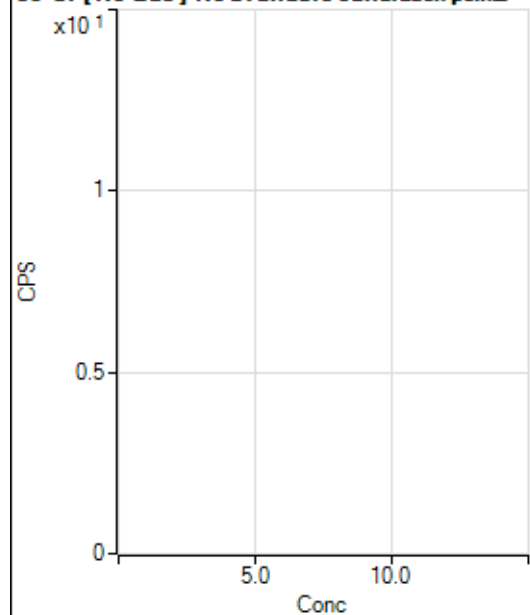
$$DL = 1666$$

$$BEC = 1.297\text{E}+04$$

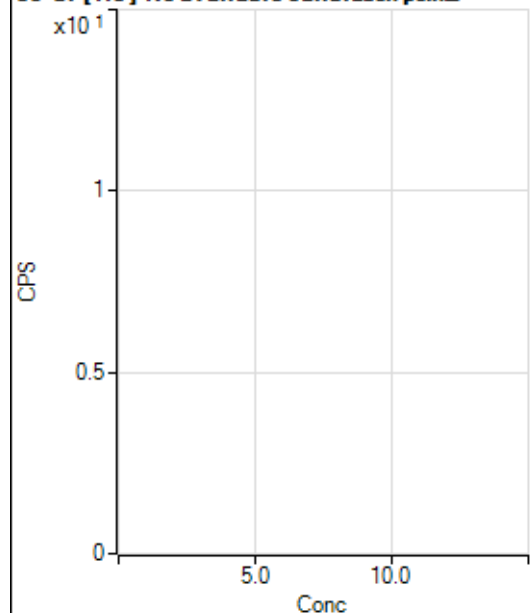
Weight: <None>

Min Conc: 0

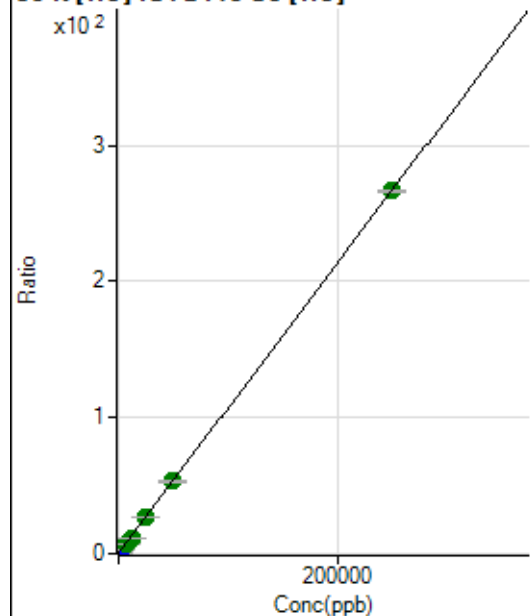
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	93926.06	0.3296	P	0.7
2	☐	500.000	501.802	244934.93	0.8633	P	0.1
3	☐	2500.000	2656.069	878248.33	3.1548	P	0.6
4	☐	6250.000	6277.063	1879848.91	7.0063	A	0.6
5	☐	12500.000	10347.640	2978023.01	11.3360	A	0.4
6	☐	25000.000	25012.905	6926430.87	26.9350	A	1.0
7	☐	50000.000	49514.483	13402781.60	52.9965	A	0.8
8	☐	250000.00	250201.19	67761763.99	266.4601	A	0.7

$$y = 0.0011 * x + 0.3296$$

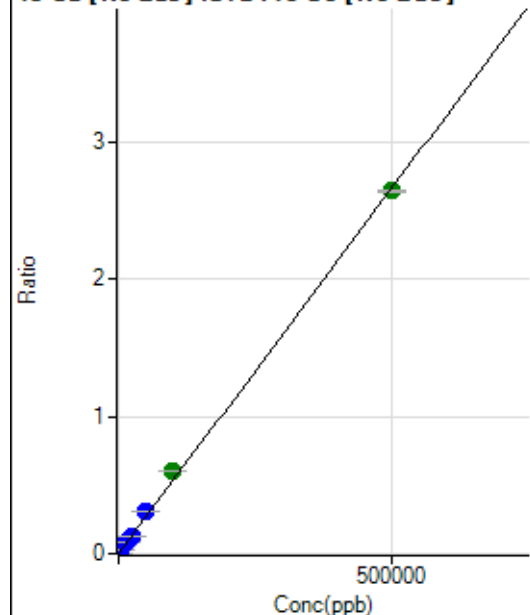
$$R = 1.0000$$

$$DL = 6.402$$

$$BEC = 309.9$$

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	345.56	0.0001	P	7.4
2	☐	500.000	529.505	9605.33	0.0029	P	7.9
3	☐	5000.000	5680.290	103703.10	0.0303	P	0.9
4	☐	12500.000	14502.175	254573.70	0.0771	P	0.5
5	☐	25000.000	23513.694	402950.26	0.1250	P	0.4
6	☐	50000.000	57619.812	960937.57	0.3062	P	0.4
7	☐	100000.00	112331.13	1819506.43	0.5968	A	0.4
8	☐	500000.00	496789.22	8196955.99	2.6391	A	0.4

$$y = 5.3122\text{E-}006 * x + 1.0089\text{E-}004$$

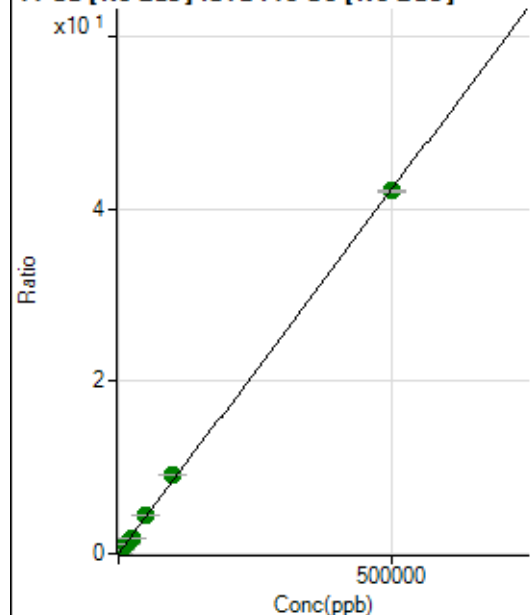
$$R = 0.9996$$

$$DL = 4.235$$

$$BEC = 18.99$$

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	42697.76	0.0125	P	1.7
2	☐	500.000	527.115	187820.56	0.0570	P	8.5
3	☐	5000.000	5322.763	1583245.77	0.4622	A	0.5
4	☐	12500.000	13424.962	3784644.42	1.1468	A	0.4
5	☐	25000.000	21794.257	5975948.03	1.8540	A	0.5
6	☐	50000.000	53562.326	14242465.76	4.5382	A	0.9
7	☐	100000.00	107439.35	27713701.25	9.0905	A	0.4
8	☐	500000.00	498289.80	130803174.7	42.1153	A	0.8

$$y = 8.4495\text{E-}005 * x + 0.0125$$

$$R = 0.9998$$

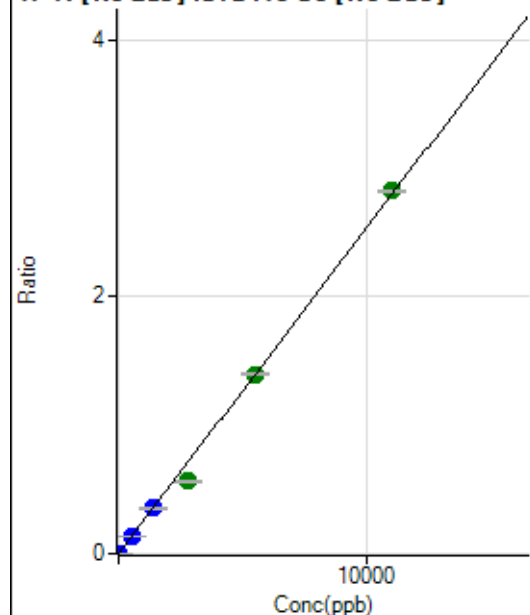
$$DL = 7.349$$

$$BEC = 147.5$$

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	174.45	0.0001	P	18.1
2	☐	5.000	5.032	4374.00	0.0013	P	7.8
3	☐	550.000	549.168	477213.97	0.1393	P	0.5
4	☐	1375.000	1386.047	1160185.03	0.3516	P	0.5
5	☐	2750.000	2219.530	1814507.87	0.5629	A	0.9
6	☐	5500.000	5512.076	4387097.54	1.3979	A	0.9
7	☐	11000.000	11125.240	8600948.83	2.8214	A	0.9
8	☐			1823.49	0.0006	P	14.2

$$y = 2.5360\text{E-}004 * x + 5.0984\text{E-}005$$

$$R = 0.9987$$

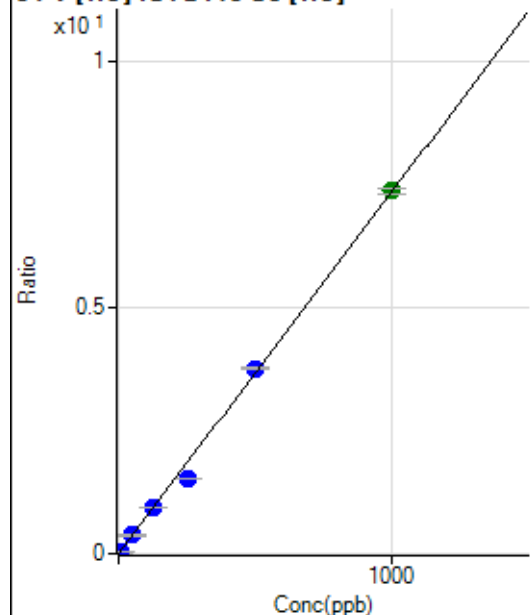
$$DL = 0.1094$$

$$BEC = 0.201$$

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	20.9
2	☐	5.000	4.939	10325.84	0.0364	P	1.3
3	☐	50.000	50.619	103626.95	0.3722	P	1.3
4	☐	125.000	127.561	251658.94	0.9379	P	0.6
5	☐	250.000	209.086	403834.81	1.5372	P	0.4
6	☐	500.000	512.376	968700.95	3.7670	P	0.7
7	☐	1000.000	1003.690	1866098.38	7.3790	A	1.6
8	☐			828.92	0.0033	P	10.6

$$y = 0.0074 * x + 8.5774\text{E-}005$$

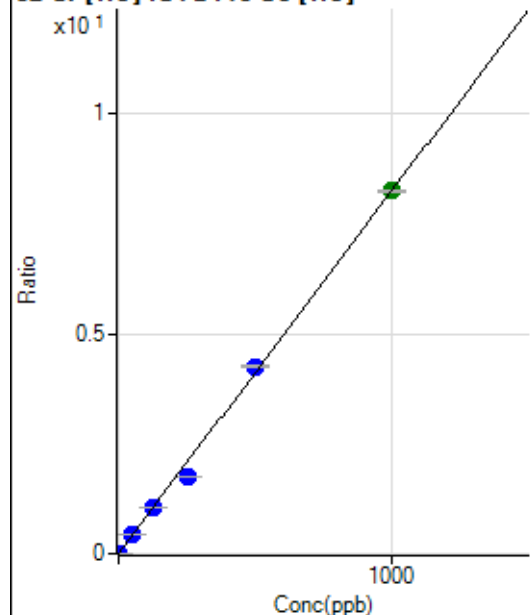
$$R = 0.9989$$

$$DL = 0.007303$$

$$BEC = 0.01167$$

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	516.68	0.0018	P	10.6
2	☐	2.000	1.951	5069.79	0.0179	P	4.7
3	☐	50.000	52.002	119660.88	0.4298	P	0.2
4	☐	125.000	129.398	286255.96	1.0669	P	0.2
5	☐	250.000	211.489	457751.73	1.7425	P	1.0
6	☐	500.000	515.826	1092249.97	4.2474	P	0.8
7	☐	1000.000	1001.065	2084186.81	8.2413	A	0.8
8	☐			30833.76	0.1212	P	1.2

$$y = 0.0082 * x + 0.0018$$

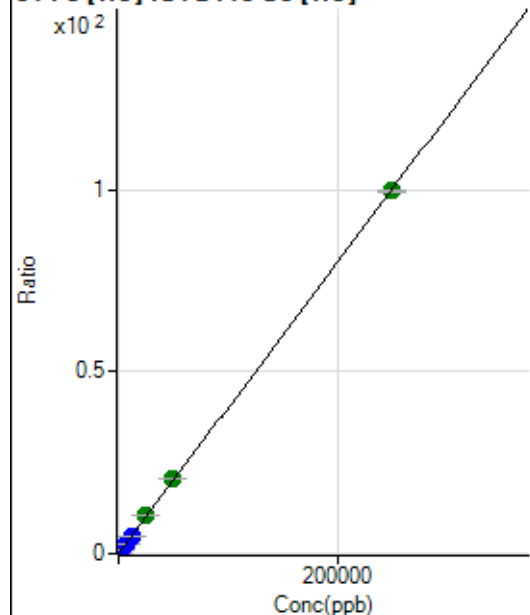
$$R = 0.9989$$

$$DL = 0.07009$$

$$BEC = 0.2203$$

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	1861.25	0.0065	P	7.8
2	☐	50.000	55.435	8140.04	0.0287	P	1.5
3	☐	2500.000	2816.240	315218.27	1.1323	P	0.7
4	☐	6250.000	7060.229	759010.56	2.8288	P	0.2
5	☐	12500.000	11496.924	1209033.22	4.6024	P	0.7
6	☐	25000.000	26649.481	2741129.02	10.6595	A	1.0
7	☐	50000.000	51670.384	5225335.83	20.6615	A	1.1
8	☐	250000.00	249527.71	25367373.23	99.7540	A	0.5

$$y = 3.9975E-004 * x + 0.0065$$

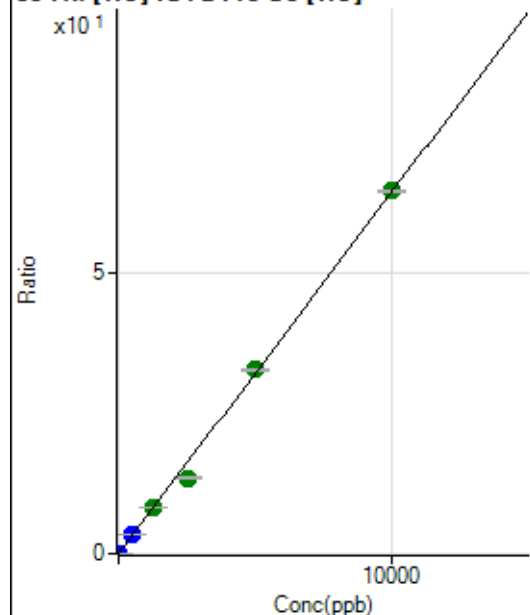
$$R = 0.9999$$

$$DL = 3.824$$

$$BEC = 16.34$$

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	498.90	0.0018	P	23.0
2	☐	1.000	1.098	2504.68	0.0088	P	4.1
3	☐	500.000	517.055	928529.47	3.3354	P	0.6
4	☐	1250.000	1277.930	2211204.10	8.2410	A	1.7
5	☐	2500.000	2099.233	3555809.71	13.5361	A	1.3
6	☐	5000.000	5098.349	8453294.80	32.8724	A	0.8
7	☐	10000.000	10046.674	16381604.75	64.7757	A	0.3
8	☐			10487.05	0.0412	P	2.0

$$y = 0.0064 * x + 0.0018$$

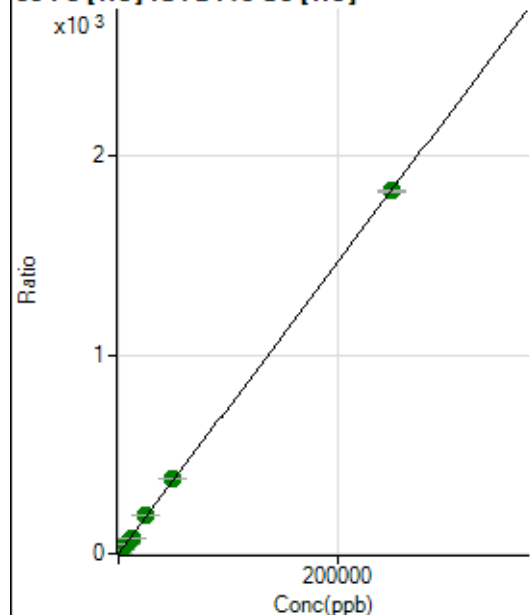
$$R = 0.9990$$

$$DL = 0.1872$$

$$BEC = 0.2717$$

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	14210.13	0.0499	P	1.0
2	☐	50.000	52.602	123278.65	0.4345	P	0.5
3	☐	2500.000	2611.531	5330491.83	19.1476	A	0.6
4	☐	6250.000	6604.672	12973218.14	48.3488	A	1.1
5	☐	12500.000	10764.458	20692189.97	78.7686	A	1.0
6	☐	25000.000	26016.591	48937400.38	190.3050	A	1.0
7	☐	50000.000	51625.668	95488949.69	377.5800	A	0.7
8	☐	250000.00	249650.00	464270201.9	1,825.700	A	0.6

$$y = 0.0073 * x + 0.0499$$

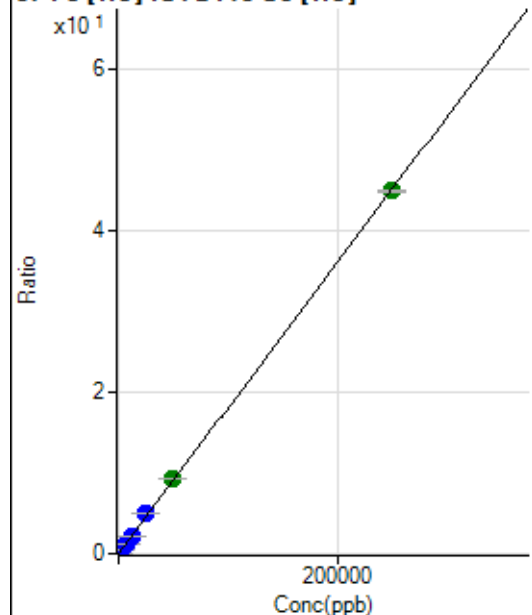
$$R = 0.9999$$

$$DL = 0.2046$$

$$BEC = 6.819$$

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	566.68	0.0020	P	9.5
2	☐	50.000	56.455	3447.10	0.0122	P	4.9
3	☐	2500.000	2793.544	140528.34	0.5048	P	1.3
4	☐	6250.000	6968.955	337092.50	1.2564	P	0.6
5	☐	12500.000	11410.655	540057.82	2.0558	P	0.9
6	☐	25000.000	27589.885	1277527.93	4.9680	P	1.1
7	☐	50000.000	51671.628	2352547.36	9.3026	A	1.4
8	☐	250000.00	249440.24	11417895.39	44.8998	A	0.4

$$y = 1.7999\text{E-}004 * x + 0.0020$$

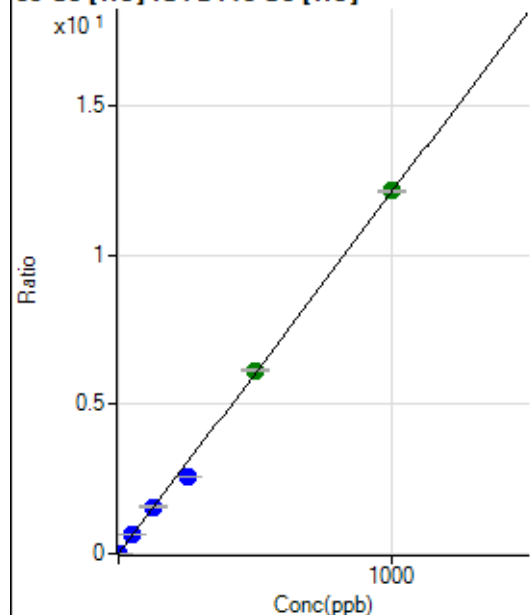
$$R = 0.9999$$

$$DL = 3.144$$

$$BEC = 11.05$$

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	90.00	0.0003	P	7.4
2	☐	1.000	1.048	3687.15	0.0130	P	1.3
3	☐	50.000	52.283	176181.74	0.6329	P	0.9
4	☐	125.000	130.388	423347.65	1.5778	P	0.6
5	☐	250.000	212.650	675943.77	2.5731	P	0.7
6	☐	500.000	508.074	1580894.33	6.1473	A	0.2
7	☐	1000.000	1004.513	3073569.33	12.1536	A	0.8
8	☐			9014.98	0.0354	P	0.3

$$y = 0.0121 * x + 3.1581\text{E-}004$$

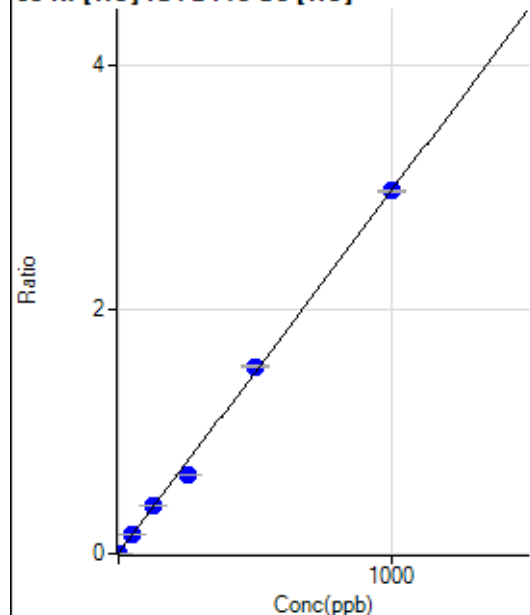
$$R = 0.9991$$

$$DL = 0.00577$$

$$BEC = 0.0261$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	625.58	0.0022	P	2.5
2	☐	1.000	0.973	1441.19	0.0051	P	2.0
3	☐	50.000	53.178	44514.68	0.1599	P	0.4
4	☐	125.000	133.622	106915.16	0.3985	P	1.0
5	☐	250.000	215.740	168650.57	0.6420	P	0.5
6	☐	500.000	515.528	393709.41	1.5310	P	0.6
7	☐	1000.000	999.564	750198.47	2.9664	P	0.3
8	☐			9384.12	0.0369	P	2.2

$$y = 0.0030 * x + 0.0022$$

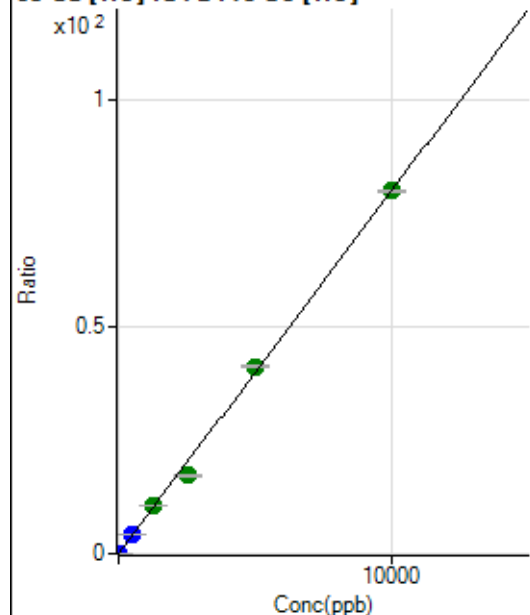
$$R = 0.9991$$

$$DL = 0.05483$$

$$BEC = 0.7403$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1059.81	0.0037	P	5.1
2	☐	2.000	1.969	5522.44	0.0195	P	4.2
3	☐	500.000	531.676	1184662.42	4.2555	P	0.7
4	☐	1250.000	1316.555	2826106.79	10.5321	A	1.1
5	☐	2500.000	2154.369	4526739.32	17.2320	A	1.0
6	☐	5000.000	5151.616	10595029.41	41.2008	A	0.7
7	☐	10000.000	10000.697	20226284.63	79.9785	A	0.6
8	☐			8878.66	0.0349	P	1.3

$$y = 0.0080 * x + 0.0037$$

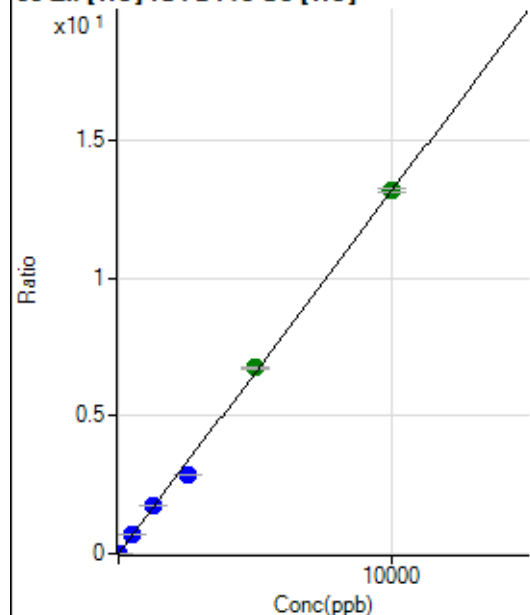
$$R = 0.9991$$

$$DL = 0.07137$$

$$BEC = 0.4651$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	400.01	0.0014	P	6.8
2	☐	5.000	4.847	2204.63	0.0078	P	2.0
3	☐	500.000	529.867	194173.47	0.6975	P	0.3
4	☐	1250.000	1325.659	467644.70	1.7429	P	0.4
5	☐	2500.000	2169.619	749096.61	2.8516	P	0.8
6	☐	5000.000	5120.604	1730161.59	6.7282	A	1.2
7	☐	10000.000	10011.343	3326376.13	13.1530	A	1.0
8	☐			2488.01	0.0098	P	1.1

$$y = 0.0013 * x + 0.0014$$

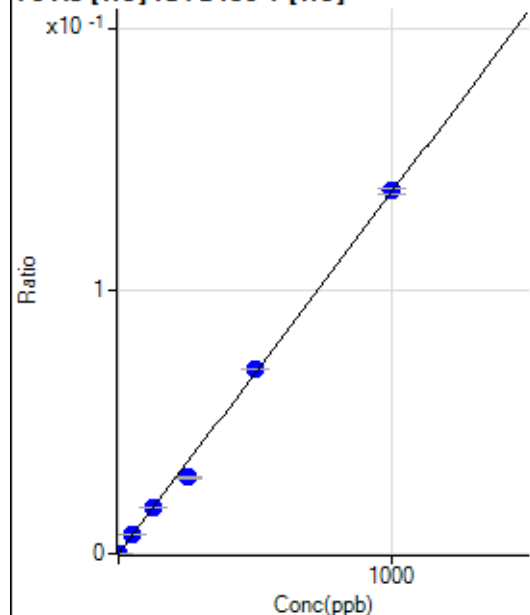
$$R = 0.9992$$

$$DL = 0.2172$$

$$BEC = 1.069$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.44	0.0000	P	43.9
2	☐	1.000	0.990	253.34	0.0001	P	4.8
3	☐	50.000	51.438	12687.76	0.0071	P	0.6
4	☐	125.000	128.052	31144.90	0.0176	P	0.7
5	☐	250.000	210.531	49859.00	0.0290	P	0.7
6	☐	500.000	510.991	118756.05	0.0703	P	0.8
7	☐	1000.000	1003.918	231094.17	0.1381	P	1.3
8	☐			203.34	0.0001	P	4.7

$$y = 1.3755E-004 * x + 2.4098E-006$$

$$R = 0.9990$$

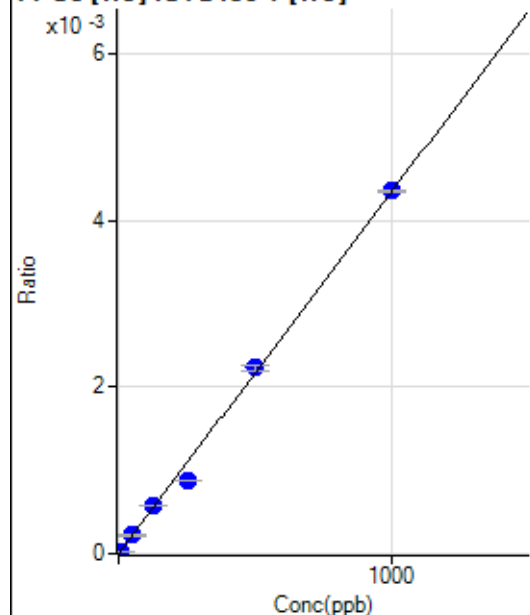
$$DL = 0.02305$$

$$BEC = 0.01752$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.309	50.00	0.0000	P	35.3
3	☐	50.000	52.221	406.68	0.0002	P	10.5
4	☐	125.000	133.530	1025.60	0.0006	P	1.3
5	☐	250.000	202.803	1516.76	0.0009	P	1.7
6	☐	500.000	514.710	3777.18	0.0022	P	3.3
7	☐	1000.000	1003.261	7294.09	0.0044	P	0.2
8	☐			2.22	0.0000	P	86.6

$$y = 4.3444\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9985$$

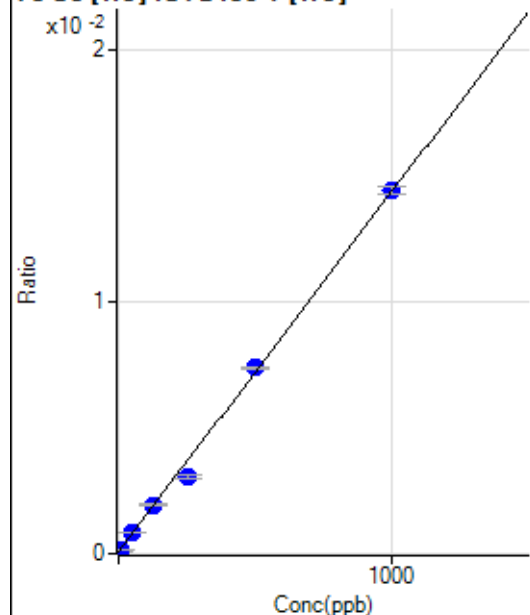
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132.23	0.0001	P	16.9
2	☐	5.000	4.180	240.01	0.0001	P	7.2
3	☐	50.000	54.335	1518.99	0.0008	P	4.1
4	☐	125.000	130.794	3428.21	0.0019	P	3.6
5	☐	250.000	209.751	5279.88	0.0031	P	4.0
6	☐	500.000	511.858	12467.55	0.0074	P	1.2
7	☐	1000.000	1003.197	24088.54	0.0144	P	2.0
8	☐			94.45	0.0001	P	28.7

$$y = 1.4278\text{E-}005 * x + 7.1633\text{E-}005$$

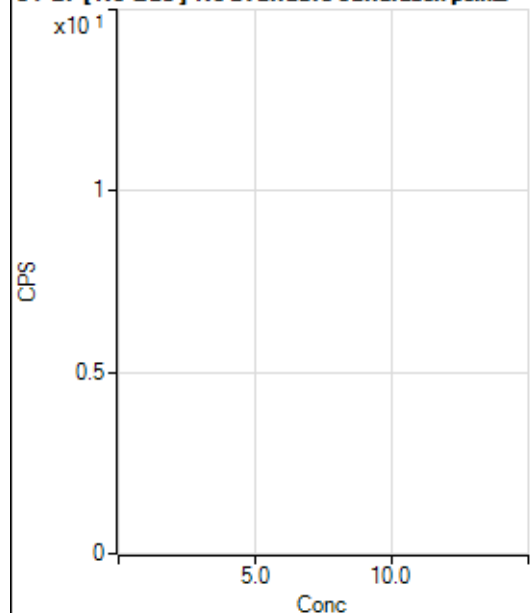
$$R = 0.9989$$

$$DL = 2.536$$

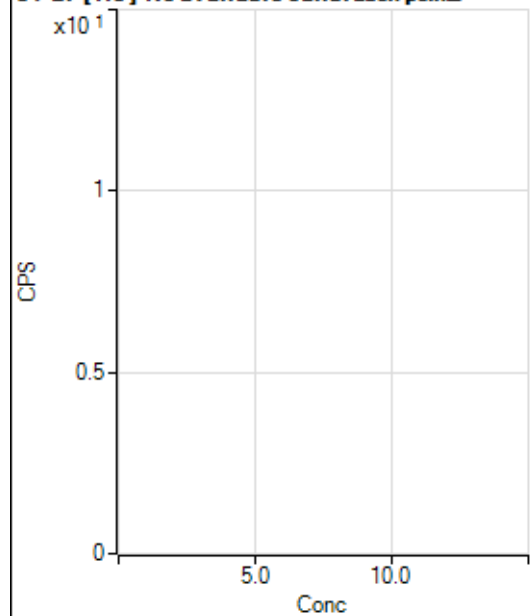
$$BEC = 5.017$$

Weight: <None>

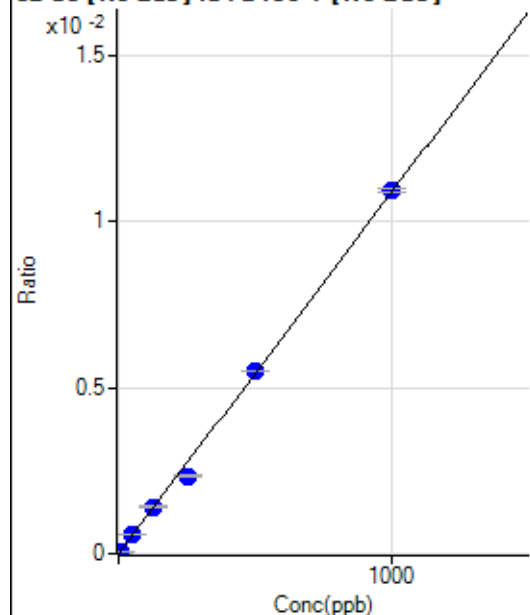
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19062.42		P	2.2
2	☐			18821.05		P	2.2
3	☐			18382.67		P	1.0
4	☐			17873.17		P	1.6
5	☐			17203.47		P	1.5
6	☐			17272.42		P	1.6
7	☐			17572.75		P	1.2
8	☐			17688.47		P	0.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	10.2
2	☐			62.22		P	22.3
3	☐			35.56		P	14.3
4	☐			41.11		P	30.7
5	☐			33.33		P	10.0
6	☐			34.45		P	11.2
7	☐			35.55		P	19.5
8	☐			52.22		P	18.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.89	0.0000	P	47.1
2	☐	5.000	5.129	460.26	0.0001	P	3.4
3	☐	50.000	52.160	4484.26	0.0006	P	3.5
4	☐	125.000	129.299	10913.83	0.0014	P	1.7
5	☐	250.000	213.044	17347.51	0.0023	P	2.6
6	☐	500.000	507.215	41204.94	0.0055	P	0.3
7	☐	1000.000	1004.985	80596.09	0.0109	P	1.1
8	☐			62.06	0.0000	P	65.5

$$y = 1.0864E-005 * x + 5.2884E-006$$

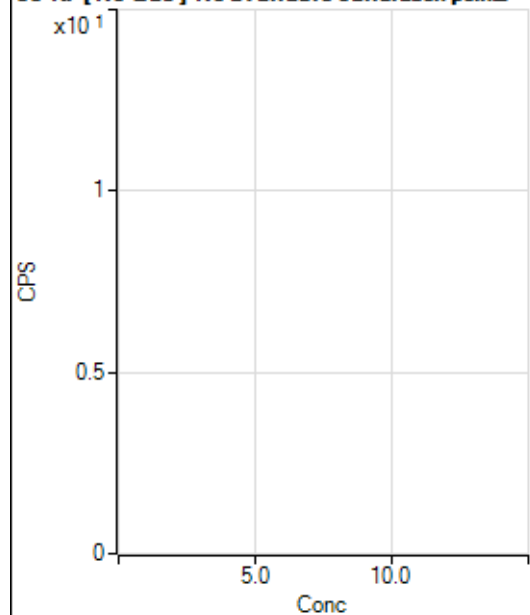
$$R = 0.9991$$

$$DL = 0.6875$$

$$BEC = 0.4868$$

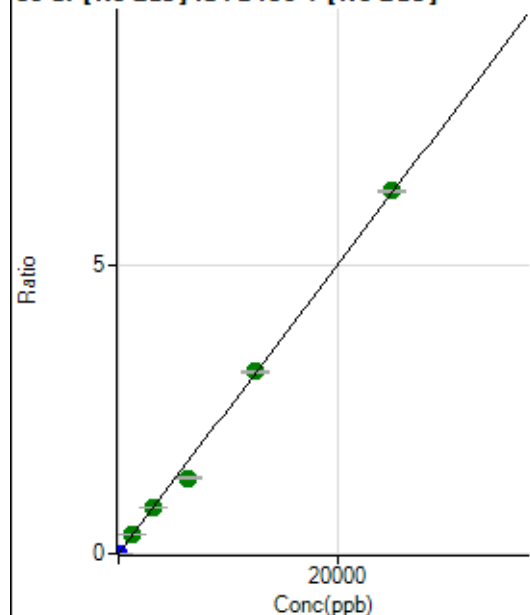
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			73.33		P	15.7
2	☐			86.67		P	3.8
3	☐			77.78		P	12.4
4	☐			54.44		P	33.7
5	☐			68.89		P	10.1
6	☐			74.44		P	22.1
7	☐			92.22		P	9.1
8	☐			106.67		P	19.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	192.22	0.0000	P	6.1
2	☐	1.000	1.064	2193.52	0.0003	P	4.6
3	☐	1250.000	1281.922	2517446.56	0.3211	A	1.0
4	☐	3125.000	3169.435	6144995.60	0.7939	A	0.1
5	☐	6250.000	5267.964	9868162.01	1.3195	A	0.4
6	☐	12500.000	12614.764	23603671.31	3.1596	A	0.5
7	☐	25000.000	25180.976	46535698.75	6.3071	A	0.6
8	☐			9213.00	0.0013	P	11.6

$$y = 2.5047E-004 * x + 2.4324E-005$$

$$R = 0.9991$$

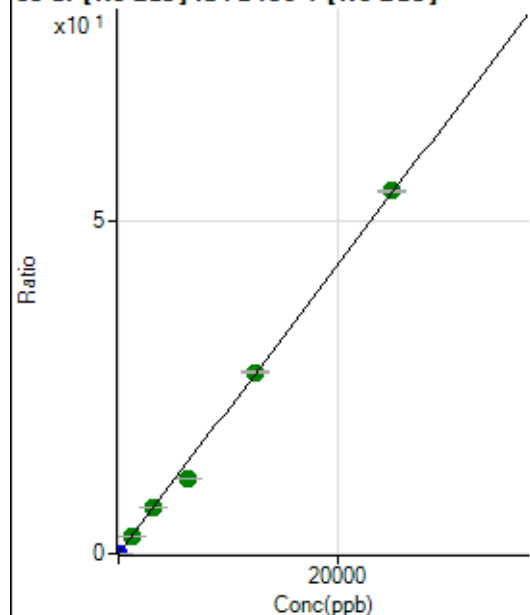
$$DL = 0.0178$$

$$BEC = 0.09711$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	560.02	0.0001	P	6.8
2	☐	1.000	1.033	17400.39	0.0023	P	5.3
3	☐	1250.000	1253.685	21284617.32	2.7149	A	0.6
4	☐	3125.000	3159.104	52952040.32	6.8410	A	0.6
5	☐	6250.000	5213.804	84434774.85	11.2904	A	0.8
6	☐	12500.000	12594.219	203733585.8	27.2723	A	0.8
7	☐	25000.000	25207.492	402755634.0	54.5859	A	0.4
8	☐			78780.24	0.0111	P	12.6

$$y = 0.0022 * x + 7.0911E-005$$

$$R = 0.9990$$

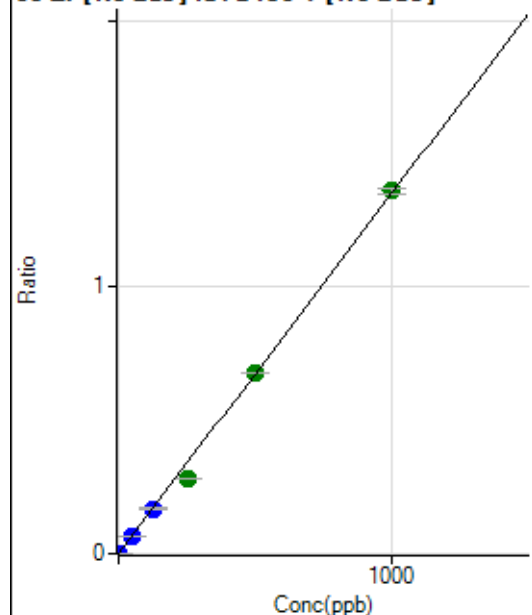
$$DL = 0.006712$$

$$BEC = 0.03275$$

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	353.34	0.0000	P	8.3
2	☐	1.000	0.984	10338.15	0.0014	P	7.5
3	☐	50.000	50.060	530257.74	0.0676	P	0.3
4	☐	125.000	125.325	1310086.12	0.1693	P	0.6
5	☐	250.000	209.884	2119550.11	0.2834	A	1.0
6	☐	500.000	503.893	5082689.37	0.6804	A	0.2
7	☐	1000.000	1008.039	10041755.20	1.3611	A	1.3
8	☐			5388.83	0.0008	P	6.0

$$y = 0.0014 * x + 4.4750E-005$$

$$R = 0.9991$$

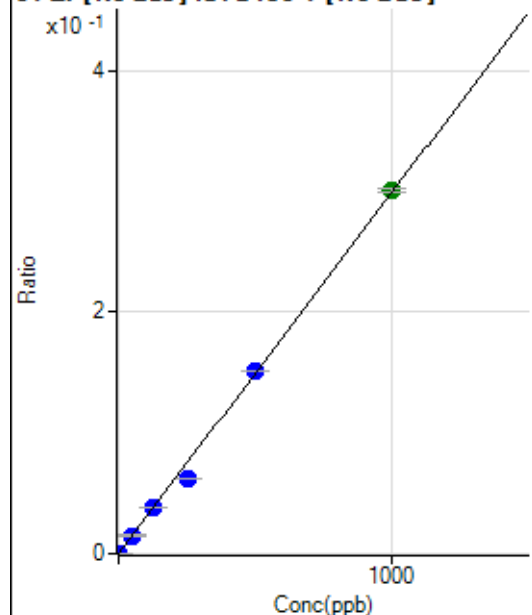
$$DL = 0.008297$$

$$BEC = 0.03314$$

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	60.00	0.0000	P	15.5
2	☐	1.000	1.018	2344.66	0.0003	P	8.9
3	☐	50.000	50.453	118104.73	0.0151	P	1.4
4	☐	125.000	126.474	292211.85	0.0378	P	0.9
5	☐	250.000	209.273	467119.58	0.0625	P	1.3
6	☐	500.000	506.965	1130304.20	0.1513	P	0.2
7	☐	1000.000	1006.492	2216228.37	0.3004	A	1.1
8	☐			1241.17	0.0002	P	6.5

$$y = 2.9844E-004 * x + 7.6011E-006$$

$$R = 0.9990$$

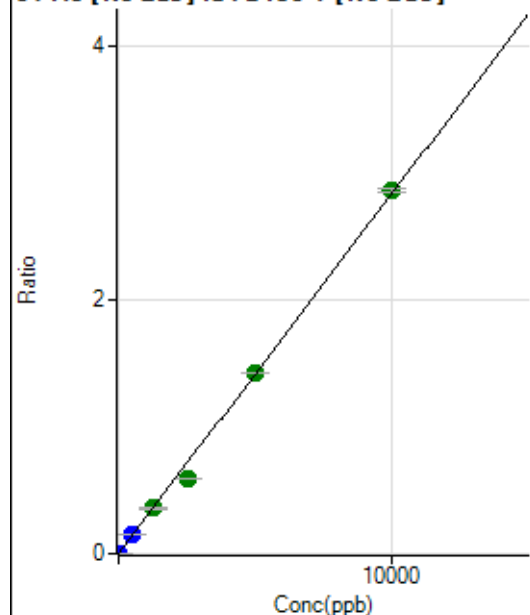
$$DL = 0.01181$$

$$BEC = 0.02547$$

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	212.22	0.0000	P	8.7
2	☐	5.000	5.474	11870.46	0.0016	P	9.4
3	☐	500.000	509.386	1131435.40	0.1443	P	0.2
4	☐	1250.000	1262.294	2767744.99	0.3576	A	1.6
5	☐	2500.000	2083.541	4413900.70	0.5902	A	0.8
6	☐	5000.000	5027.118	10637948.11	1.4240	A	0.8
7	☐	10000.000	10088.549	21084224.82	2.8577	A	1.1
8	☐			9380.86	0.0013	P	2.7

$$y = 2.8326E-004 * x + 2.6878E-005$$

$$R = 0.9990$$

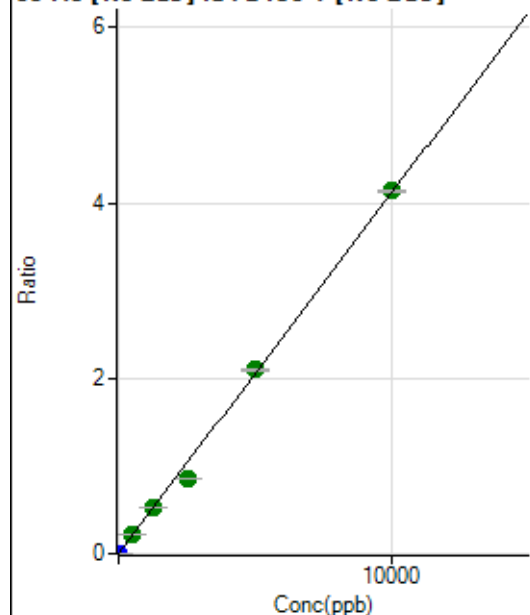
$$DL = 0.02485$$

$$BEC = 0.09489$$

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	282.23	0.0000	P	9.6
2	☐	5.000	4.700	14826.50	0.0020	P	8.5
3	☐	500.000	508.841	1641911.59	0.2094	A	1.0
4	☐	1250.000	1255.269	3998526.23	0.5166	A	0.3
5	☐	2500.000	2081.662	6406435.74	0.8566	A	0.1
6	☐	5000.000	5092.939	15655755.04	2.0957	A	0.5
7	☐	10000.000	10057.015	30534772.60	4.1384	A	0.7
8	☐			12791.25	0.0018	P	6.6

$$y = 4.1149E-004 * x + 3.5716E-005$$

$$R = 0.9989$$

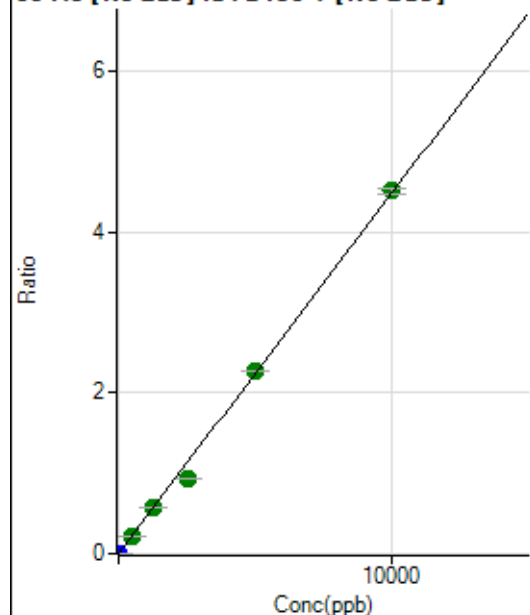
$$DL = 0.02506$$

$$BEC = 0.0868$$

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	132.23	0.0000	P	3.4
2	☐	5.000	4.771	16238.01	0.0022	P	6.4
3	☐	500.000	502.511	1765851.08	0.2252	A	0.3
4	☐	1250.000	1264.522	4386900.14	0.5667	A	0.7
5	☐	2500.000	2079.726	6970860.10	0.9321	A	0.7
6	☐	5000.000	5067.018	16964460.58	2.2709	A	0.9
7	☐	10000.000	10069.619	33297336.45	4.5130	A	1.3
8	☐			16288.11	0.0023	P	4.2

$$y = 4.4818\text{E-}004 * x + 1.6737\text{E-}005$$

$$R = 0.9990$$

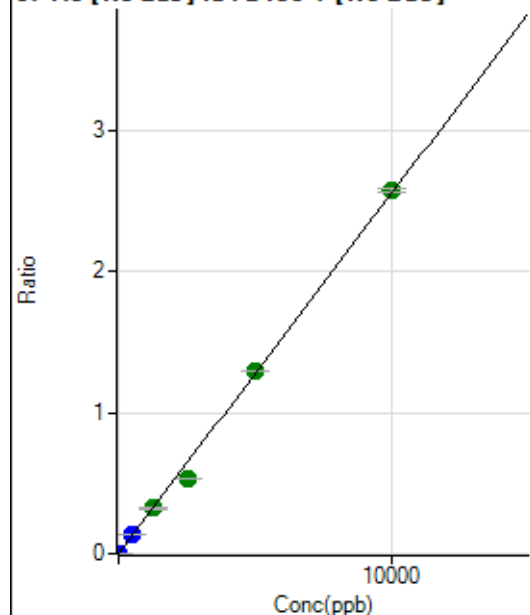
$$DL = 0.003829$$

$$BEC = 0.03734$$

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	90.00	0.0000	P	23.3
2	☐	5.000	4.714	9160.71	0.0012	P	6.7
3	☐	500.000	507.962	1017626.23	0.1298	P	0.4
4	☐	1250.000	1257.008	2486106.16	0.3212	A	0.9
5	☐	2500.000	2088.067	3989926.71	0.5335	A	0.9
6	☐	5000.000	5065.810	9669299.16	1.2944	A	0.2
7	☐	10000.000	10068.804	18981489.72	2.5726	A	1.0
8	☐			7862.19	0.0011	P	6.7

$$y = 2.5551\text{E-}004 * x + 1.1394\text{E-}005$$

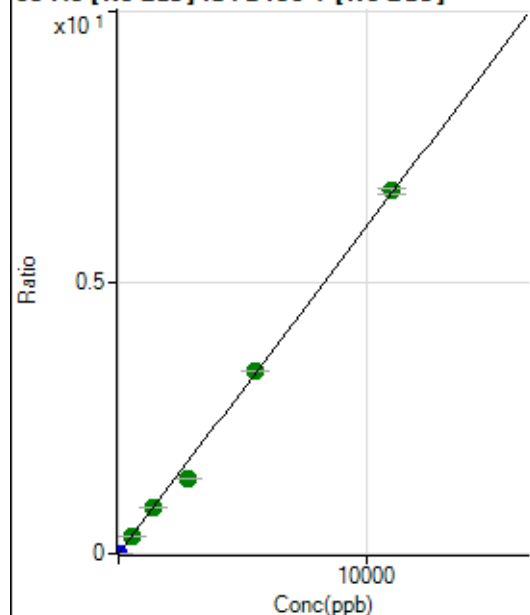
$$R = 0.9990$$

$$DL = 0.03112$$

$$BEC = 0.04459$$

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	162.23	0.0000	P	16.8
2	☐	5.000	5.082	23288.62	0.0031	P	7.9
3	☐	550.000	549.704	2605468.23	0.3323	A	0.3
4	☐	1375.000	1387.335	6491906.57	0.8387	A	0.5
5	☐	2750.000	2293.309	10367985.82	1.3864	A	0.7
6	☐	5500.000	5563.823	25126259.62	3.3635	A	0.1
7	☐	11000.000	11080.734	49425122.60	6.6985	A	1.3
8	☐			20194.09	0.0028	P	6.4

$$y = 6.0452\text{E-}004 * x + 2.0515\text{E-}005$$

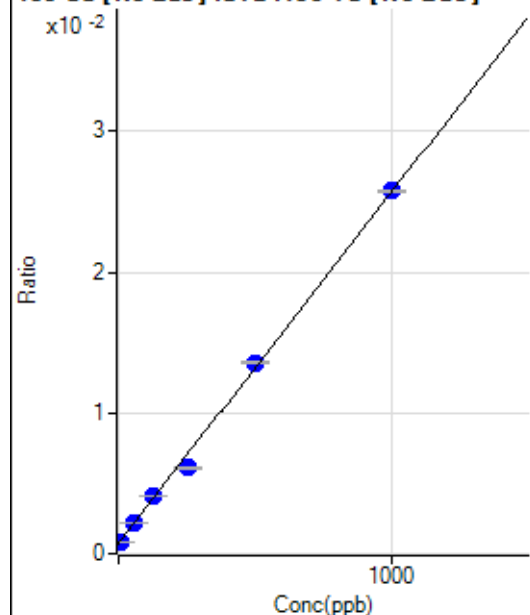
$$R = 0.9990$$

$$DL = 0.0171$$

$$BEC = 0.03394$$

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	5366.60	0.0008	P	0.7
2	☐	1.000	1.010	5359.94	0.0009	P	1.7
3	☐	50.000	53.123	13774.40	0.0022	P	2.9
4	☐	125.000	131.317	26399.57	0.0041	P	0.9
5	☐	250.000	210.994	38824.02	0.0061	P	0.3
6	☐	500.000	512.393	85462.60	0.0136	P	1.8
7	☐	1000.000	1002.609	161583.37	0.0258	P	0.8
8	☐			4680.81	0.0008	P	1.4

$$y = 2.4869\text{E-}005 * x + 8.3517\text{E-}004$$

$$R = 0.9990$$

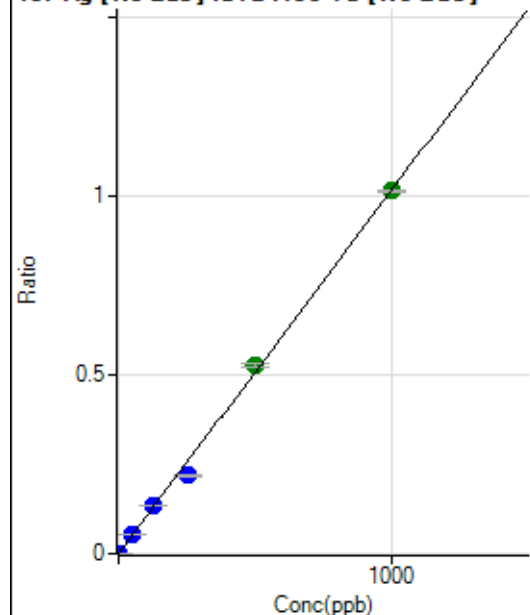
$$DL = 0.7516$$

$$BEC = 33.58$$

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	68.89	0.0000	P	29.2
2	☐	1.000	1.051	6700.49	0.0011	P	8.8
3	☐	50.000	55.059	357477.25	0.0560	P	1.7
4	☐	125.000	134.022	876854.38	0.1362	P	1.1
5	☐	250.000	214.911	1394088.16	0.2184	P	1.1
6	☐	500.000	518.006	3313766.97	0.5264	A	1.5
7	☐	1000.000	998.389	6362336.57	1.0146	A	0.3
8	☐			1262.29	0.0002	P	23.8

$$y = 0.0010 * x + 1.0714E-005$$

$$R = 0.9990$$

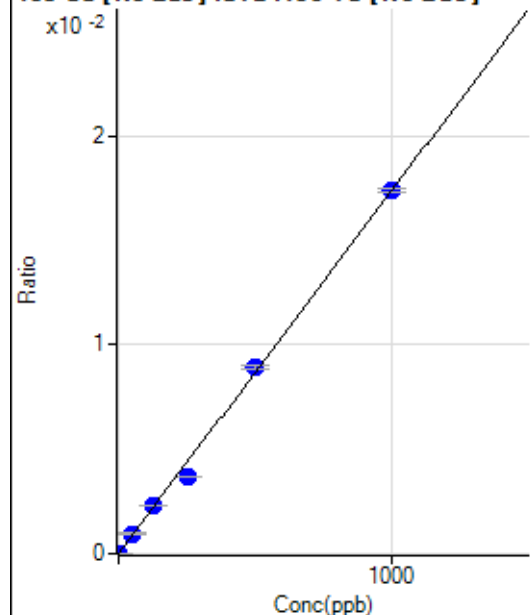
$$DL = 0.009243$$

$$BEC = 0.01054$$

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	11.11	0.0000	P	62.8
2	☐	1.000	0.926	110.00	0.0000	P	23.0
3	☐	50.000	55.519	6171.37	0.0010	P	2.4
4	☐	125.000	133.568	14950.04	0.0023	P	0.9
5	☐	250.000	212.605	23584.84	0.0037	P	1.4
6	☐	500.000	515.550	56379.05	0.0090	P	2.5
7	☐	1000.000	1000.227	108967.74	0.0174	P	1.1
8	☐			101.11	0.0000	P	21.4

$$y = 1.7372E-005 * x + 1.7335E-006$$

$$R = 0.9989$$

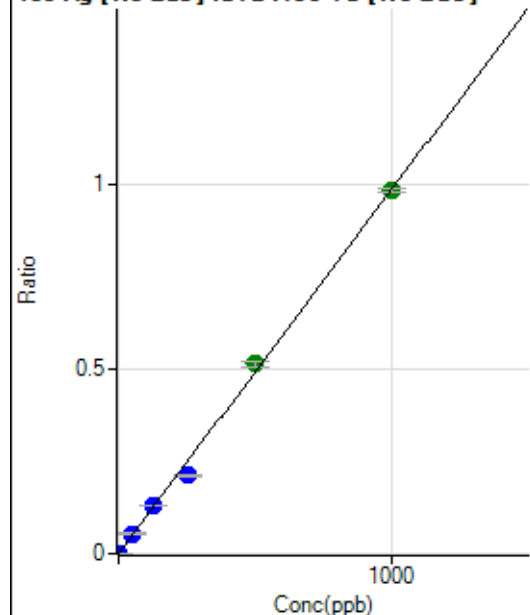
$$DL = 0.1879$$

$$BEC = 0.09978$$

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	18.89	0.0000	P	10.7
2	☐	1.000	1.056	6477.06	0.0010	P	9.2
3	☐	50.000	55.123	346701.88	0.0543	P	1.5
4	☐	125.000	133.470	846001.40	0.1314	P	0.8
5	☐	250.000	215.247	1352694.58	0.2119	P	1.2
6	☐	500.000	520.837	3227445.68	0.5128	A	2.6
7	☐	1000.000	996.955	6154973.45	0.9816	A	1.0
8	☐			1136.72	0.0002	P	12.6

$$y = 9.8459\text{E-}004 * x + 2.9410\text{E-}006$$

$$R = 0.9989$$

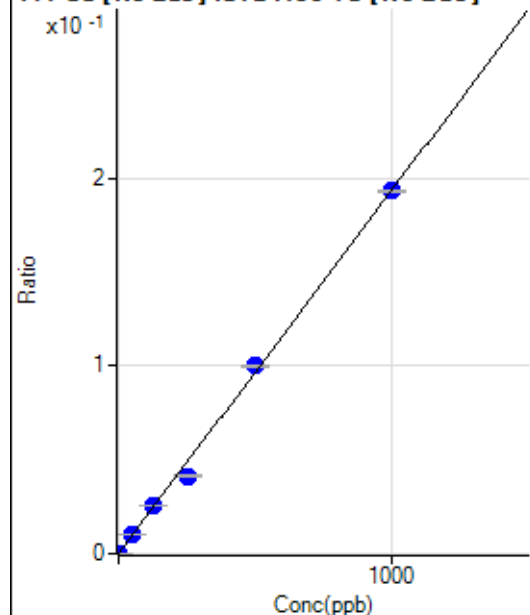
$$DL = 0.0009615$$

$$BEC = 0.002987$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	533.33	0.0001	P	0.3
2	☐	1.000	1.167	1922.42	0.0003	P	5.1
3	☐	50.000	54.595	67955.69	0.0106	P	1.9
4	☐	125.000	132.343	165252.98	0.0257	P	1.5
5	☐	250.000	214.101	264744.76	0.0415	P	1.2
6	☐	500.000	516.686	629333.96	0.1000	P	1.5
7	☐	1000.000	999.484	1212259.57	0.1933	P	0.6
8	☐			708.43	0.0001	P	6.1

$$y = 1.9335\text{E-}004 * x + 8.2998\text{E-}005$$

$$R = 0.9990$$

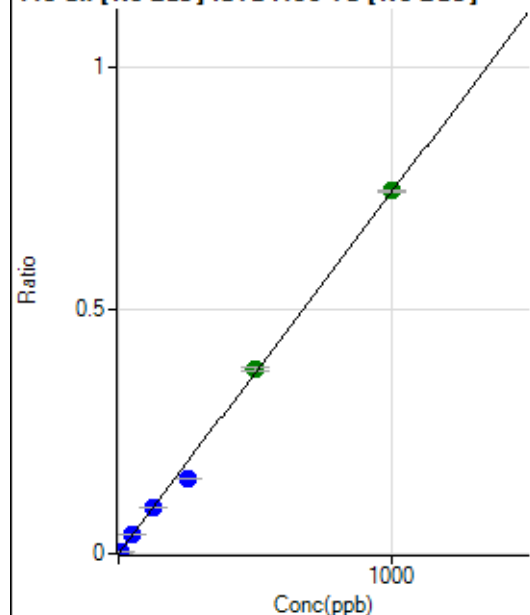
$$DL = 0.004028$$

$$BEC = 0.4293$$

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	2681.42	0.0004	P	1.8
2	☐	5.000	5.147	26300.91	0.0042	P	6.8
3	☐	50.000	51.803	247826.83	0.0388	P	1.3
4	☐	125.000	128.410	615097.42	0.0956	P	1.7
5	☐	250.000	207.677	984705.83	0.1543	P	1.4
6	☐	500.000	511.787	2389576.61	0.3796	A	1.5
7	☐	1000.000	1004.170	4667688.05	0.7444	A	0.5
8	☐			4450.73	0.0008	P	0.7

$$y = 7.4087\text{E-}004 * x + 4.1732\text{E-}004$$

$$R = 0.9989$$

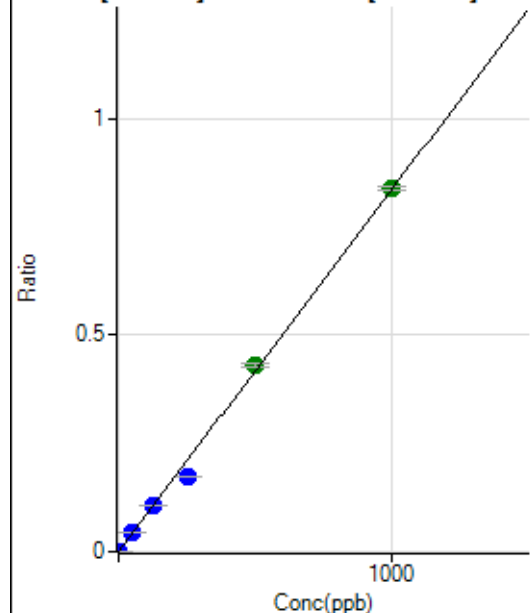
$$DL = 0.03022$$

$$BEC = 0.5633$$

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	42.22	0.0000	P	44.3
2	☐	2.000	2.055	10706.32	0.0017	P	6.9
3	☐	50.000	51.874	276669.42	0.0433	P	1.5
4	☐	125.000	127.872	687265.36	0.1068	P	0.7
5	☐	250.000	207.444	1105410.92	0.1732	P	1.1
6	☐	500.000	513.783	2699853.99	0.4289	A	1.9
7	☐	1000.000	1003.295	5252012.70	0.8376	A	1.0
8	☐			3656.06	0.0006	P	3.9

$$y = 8.3484\text{E-}004 * x + 6.5609\text{E-}006$$

$$R = 0.9988$$

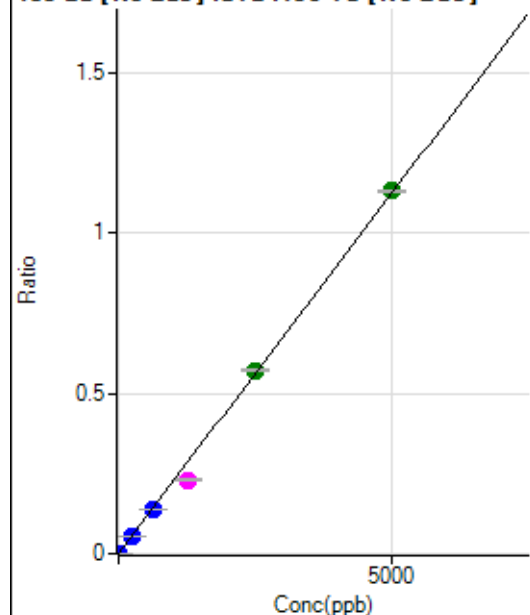
$$DL = 0.01044$$

$$BEC = 0.007859$$

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	12.22	0.0000	P	78.1
2	☐	10.000	9.738	13621.15	0.0022	P	7.0
3	☐	250.000	246.440	353947.24	0.0554	P	2.2
4	☐	625.000	610.487	883704.84	0.1373	P	0.8
5	☐	1250.000	1022.241	1467091.05	0.2299	M	3.5
6	☐	2500.000	2545.617	3603014.80	0.5724	A	1.4
7	☐	5000.000	5036.124	7100822.81	1.1324	A	0.4
8	☐			2543.59	0.0004	P	3.2

$$y = 2.2486\text{E-}004 * x + 1.8964\text{E-}006$$

$$R = 0.9988$$

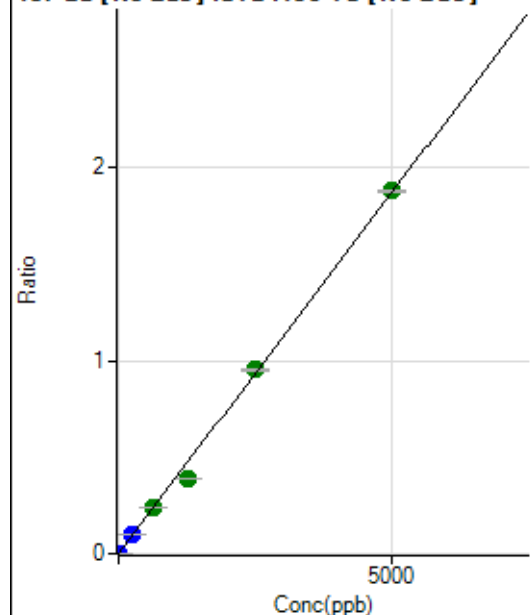
$$DL = 0.01975$$

$$BEC = 0.008434$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0000	P	10.7
2	☐	10.000	10.080	23477.55	0.0038	P	8.4
3	☐	250.000	255.163	610217.92	0.0955	P	1.4
4	☐	625.000	634.205	1528431.90	0.2374	A	1.0
5	☐	1250.000	1041.155	2487796.87	0.3898	A	1.8
6	☐	2500.000	2547.993	6004719.74	0.9539	A	0.7
7	☐	5000.000	5026.806	11800573.65	1.8818	A	0.5
8	☐			4309.61	0.0007	P	5.5

$$y = 3.7436\text{E-}004 * x + 5.8814\text{E-}006$$

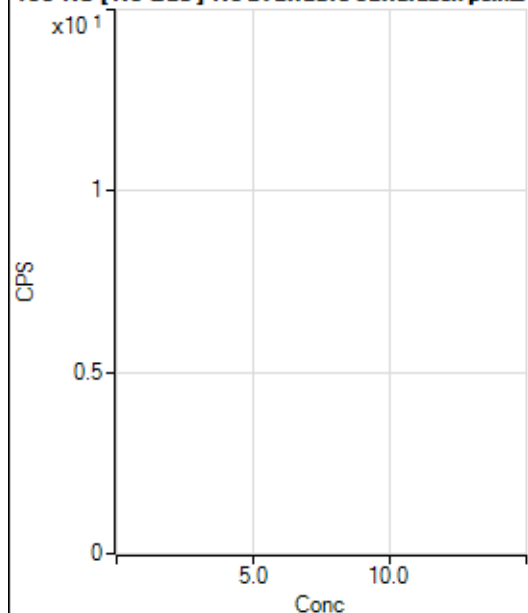
$$R = 0.9989$$

$$DL = 0.005065$$

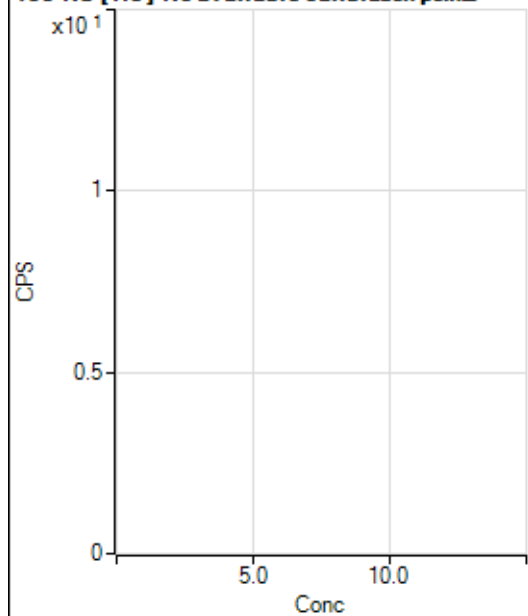
$$BEC = 0.01571$$

Weight: <None>

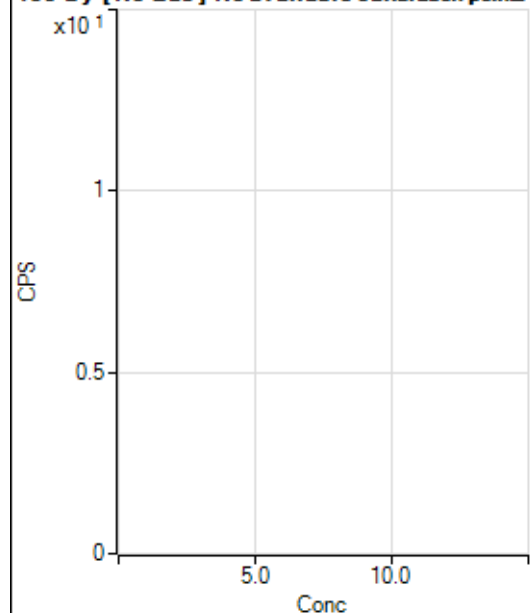
Min Conc: 0

150 Nd [No Gas] No available calibration points

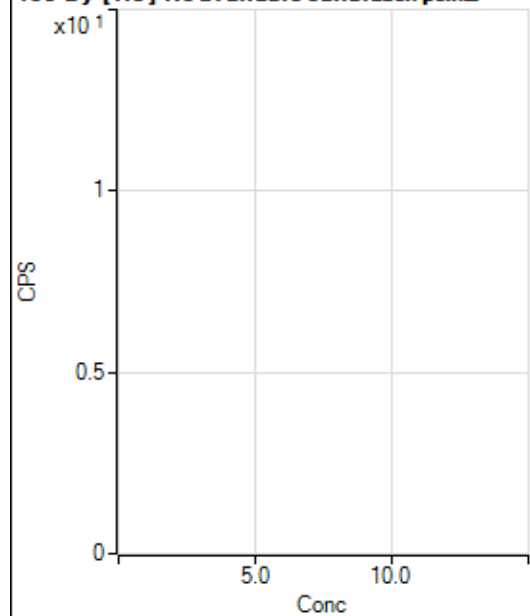
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	0.0
2	☐			7.78		P	49.5
3	☐			76.66		P	32.8
4	☐			202.22		P	8.3
5	☐			275.56		P	9.4
6	☐			757.81		P	8.1
7	☐			1401.20		P	4.7
8	☐			96.67		P	19.2

150 Nd [He] No available calibration points

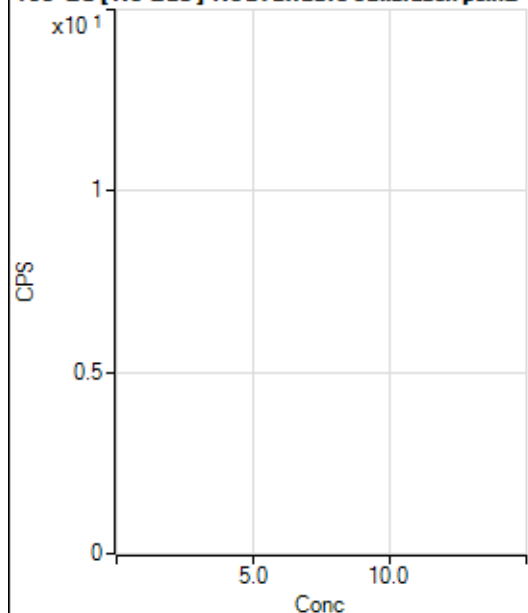
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			5.56		P	34.7
4	☐			24.44		P	41.7
5	☐			32.22		P	26.0
6	☐			184.45		P	14.7
7	☐			206.67		P	12.9
8	☐			55.55		P	24.2

156 Dy [No Gas] No available calibration points

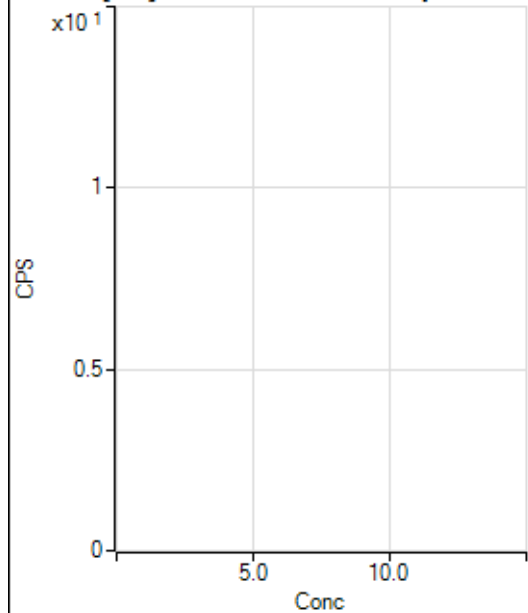
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			5.56		P	91.6
3	☐			16.67		P	40.0
4	☐			33.33		P	52.0
5	☐			51.11		P	10.0
6	☐			197.78		P	15.9
7	☐			218.89		P	6.3
8	☐			222.23		P	11.3

156 Dy [He] No available calibration points

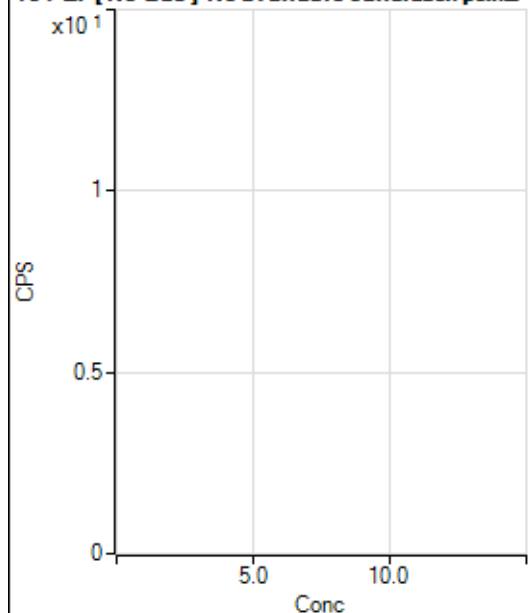
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			15.56		P	12.4
4	☐			26.67		P	12.5
5	☐			36.67		P	18.2
6	☐			131.11		P	20.7
7	☐			166.67		P	12.2
8	☐			114.45		P	6.7

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

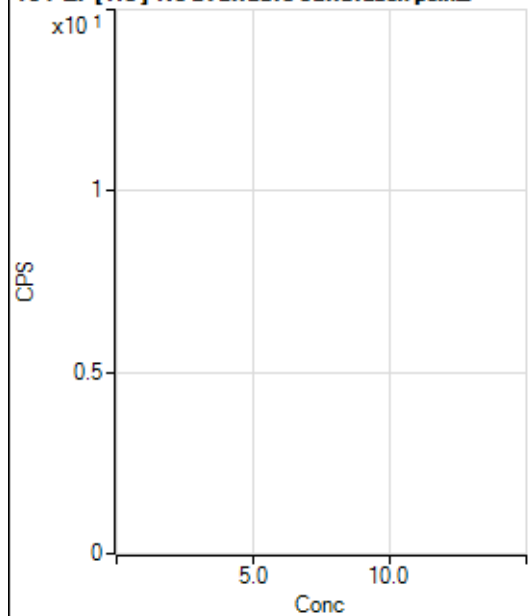
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.67		P	29.4
2	☐			47.78		P	20.1
3	☐			55.56		P	15.1
4	☐			55.56		P	54.5
5	☐			62.22		P	24.2
6	☐			120.00		P	4.8
7	☐			75.56		P	12.7
8	☐			201.11		P	25.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			161.11		P	11.4
2	☐			186.67		P	8.2
3	☐			152.23		P	8.3
4	☐			172.23		P	10.7
5	☐			156.67		P	8.5
6	☐			177.78		P	8.7
7	☐			187.78		P	5.4
8	☐			263.34		P	18.9

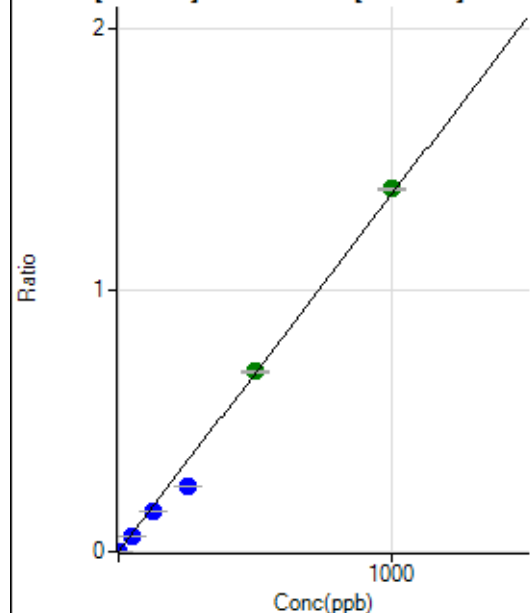
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	29.6
2	☐			35.55		P	10.8
3	☐			50.00		P	6.7
4	☐			54.44		P	21.5
5	☐			54.45		P	7.1
6	☐			114.45		P	14.7
7	☐			96.67		P	36.5
8	☐			208.89		P	4.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	65.5
2	☐			28.89		P	29.0
3	☐			25.56		P	45.8
4	☐			33.33		P	60.8
5	☐			30.00		P	48.4
6	☐			48.89		P	35.0
7	☐			61.11		P	24.6
8	☐			101.11		P	10.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0000	P	26.5
2	☐	1.000	0.844	4197.36	0.0012	P	7.4
3	☐	50.000	44.877	220914.36	0.0612	P	0.5
4	☐	125.000	112.509	552745.50	0.1534	P	0.4
5	☐	250.000	182.348	906381.80	0.2486	P	0.2
6	☐	500.000	504.797	2454788.73	0.6881	A	0.7
7	☐	1000.000	1016.332	4773651.91	1.3854	A	0.4
8	☐			612.24	0.0002	P	21.8

$$y = 0.0014 * x + 2.4262E-005$$

$$R = 0.9976$$

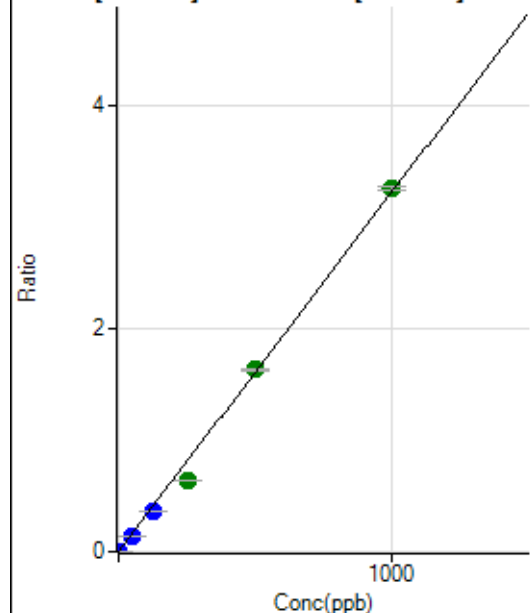
$$DL = 0.01414$$

$$BEC = 0.0178$$

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	216.67	0.0001	P	6.3
2	☐	1.000	0.864	10133.87	0.0028	P	7.3
3	☐	50.000	45.078	523587.07	0.1450	P	0.7
4	☐	125.000	112.130	1299803.91	0.3607	P	0.2
5	☐	250.000	199.745	2342606.63	0.6425	A	0.2
6	☐	500.000	508.110	5830072.07	1.6343	A	1.1
7	☐	1000.000	1010.364	11197080.46	3.2496	A	1.1
8	☐			1673.46	0.0006	P	20.8

$$y = 0.0032 * x + 5.9158E-005$$

$$R = 0.9986$$

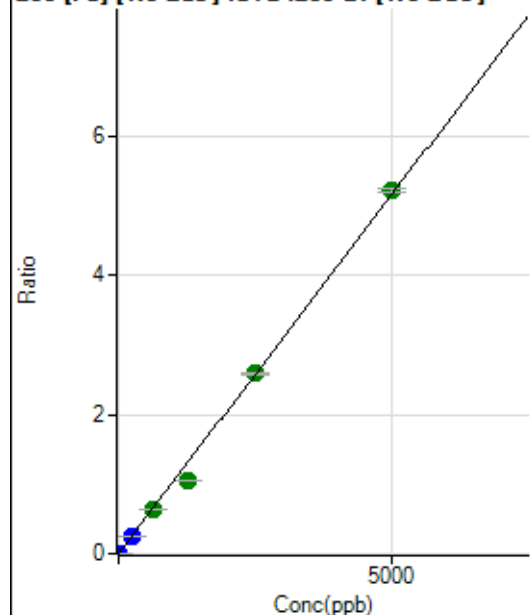
$$DL = 0.003456$$

$$BEC = 0.01839$$

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	221.12	0.0001	P	11.4
2	☐	1.000	0.848	3342.67	0.0009	P	8.2
3	☐	250.000	230.155	857865.03	0.2376	P	1.6
4	☐	625.000	611.344	2274439.41	0.6311	A	0.4
5	☐	1250.000	1016.634	3826669.74	1.0495	A	1.0
6	☐	2500.000	2507.714	9234650.83	2.5887	A	0.8
7	☐	5000.000	5057.184	17988144.45	5.2205	A	1.2
8	☐			5923.60	0.0020	P	7.7

$$y = 0.0010 * x + 6.0379E-005$$

$$R = 0.9988$$

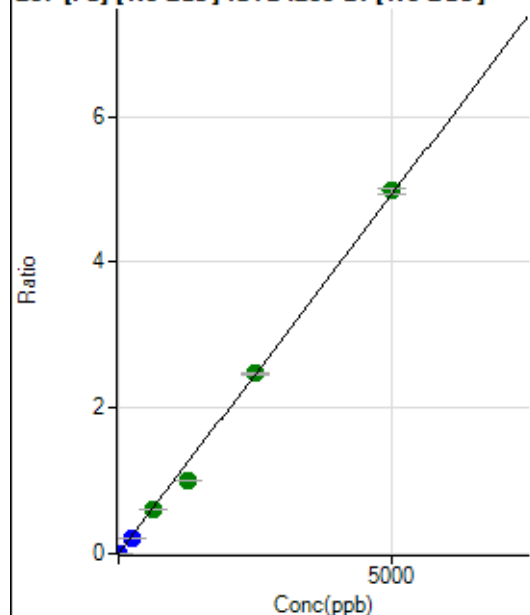
$$DL = 0.01998$$

$$BEC = 0.05849$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	218.89	0.0001	P	2.8
2	☐	1.000	0.861	3240.42	0.0009	P	8.0
3	☐	250.000	223.620	794570.52	0.2201	P	0.3
4	☐	625.000	624.046	2213199.84	0.6141	A	1.2
5	☐	1250.000	1011.001	3627523.94	0.9949	A	1.0
6	☐	2500.000	2508.391	8805529.31	2.4684	A	0.8
7	☐	5000.000	5056.992	17146468.21	4.9762	A	1.3
8	☐			5593.46	0.0019	P	7.7

$$y = 9.8402E-004 * x + 5.9744E-005$$

$$R = 0.9988$$

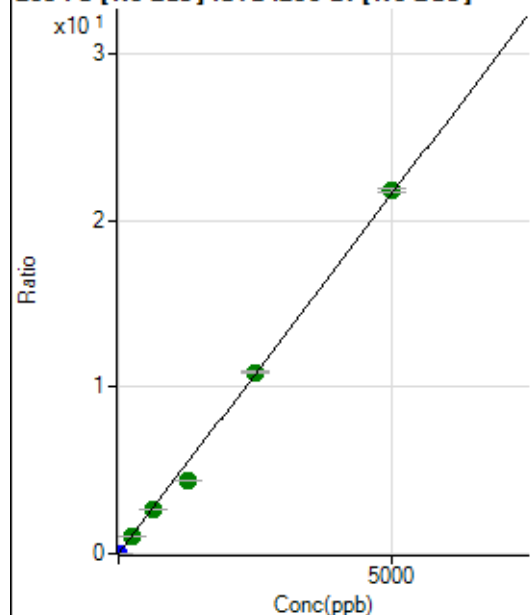
$$DL = 0.005103$$

$$BEC = 0.06071$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	948.92	0.0003	P	3.3
2	☐	1.000	0.875	14415.47	0.0040	P	7.6
3	☐	250.000	236.699	3690144.79	1.0222	A	0.8
4	☐	625.000	624.644	9720159.59	2.6972	A	0.8
5	☐	1250.000	1014.505	15972038.41	4.3805	A	0.6
6	☐	2500.000	2522.489	38852169.28	10.8914	A	0.9
7	☐	5000.000	5048.339	75105429.02	21.7971	A	1.1
8	☐			24848.32	0.0085	P	9.1

$$y = 0.0043 * x + 2.5903E-004$$

$$R = 0.9988$$

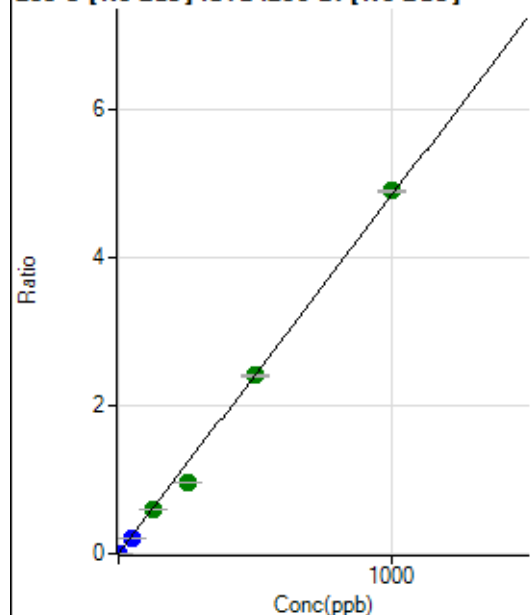
$$DL = 0.005873$$

$$BEC = 0.05999$$

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	33.80	0.0000	P	14.2
2	☐	1.000	0.848	14697.83	0.0041	P	6.6
3	☐	50.000	43.499	759683.44	0.2104	P	0.5
4	☐	125.000	124.137	2164149.09	0.6005	A	0.2
5	☐	250.000	200.619	3538783.82	0.9705	A	0.2
6	☐	500.000	498.811	8608463.31	2.4131	A	0.9
7	☐	1000.000	1013.373	16892103.25	4.9024	A	0.8
8	☐			1112.32	0.0004	P	29.4

$$y = 0.0048 * x + 9.2185E-006$$

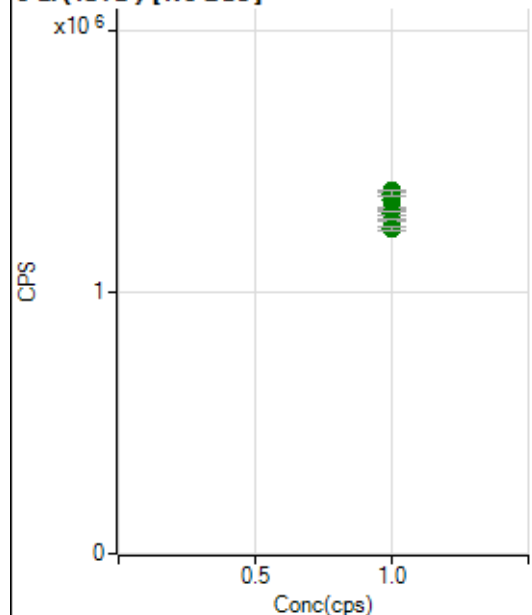
$$R = 0.9987$$

$$DL = 0.0008102$$

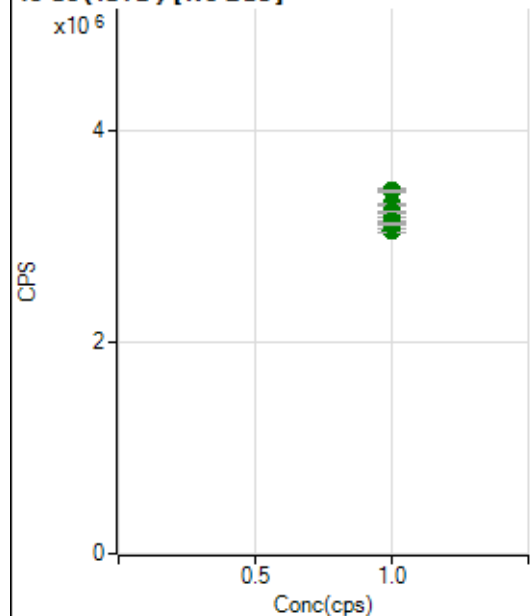
$$BEC = 0.001906$$

Weight: <None>

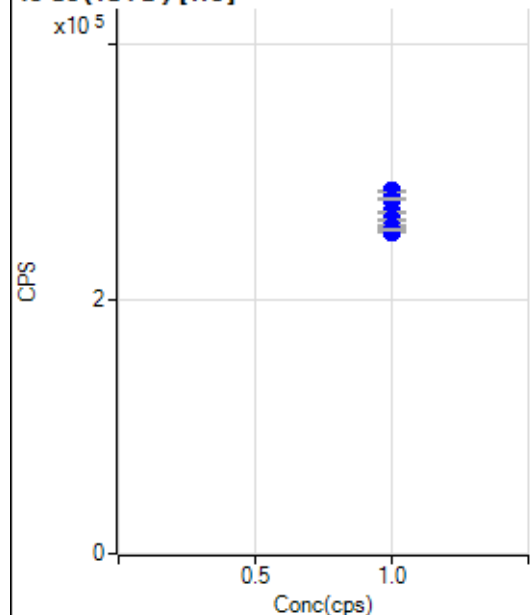
Min Conc: 0

6 Li (ISTD) [No Gas]

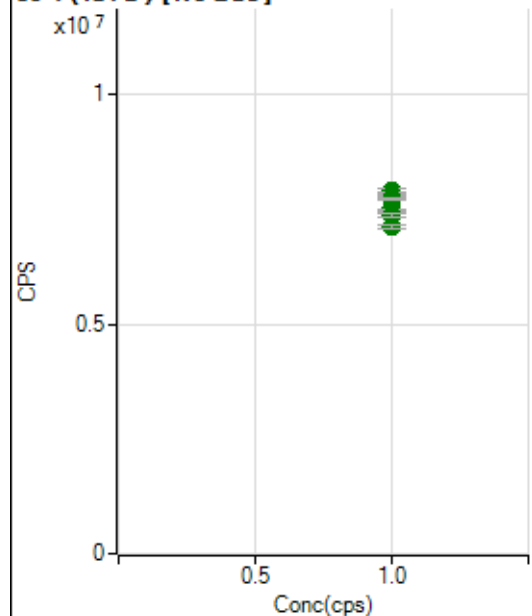
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1377152.55		A	1.6
2	☐	1.000		1352236.88		A	4.9
3	☐	1.000		1385865.08		A	0.6
4	☐	1.000		1374820.45		A	1.8
5	☐	1.000		1320284.47		A	0.5
6	☐	1.000		1299951.02		A	1.3
7	☐	1.000		1273264.41		A	0.8
8	☐	1.000		1242309.17		A	1.2

45 Sc (ISTD) [No Gas]

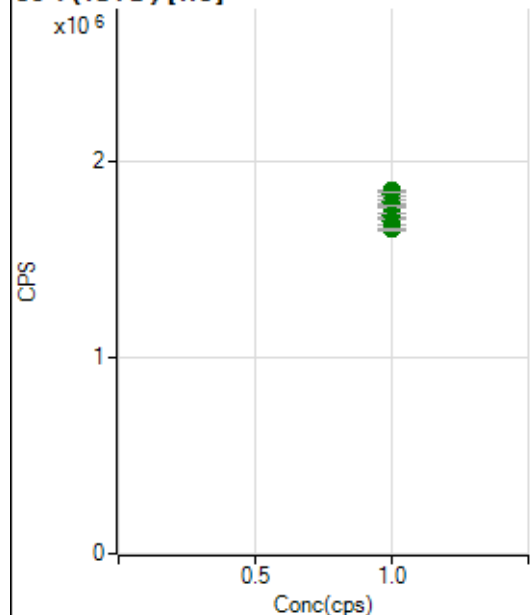
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3425469.98		A	1.0
2	☐	1.000		3309111.76		A	7.6
3	☐	1.000		3425376.62		A	0.5
4	☐	1.000		3300222.24		A	0.6
5	☐	1.000		3223360.06		A	0.2
6	☐	1.000		3138407.21		A	0.4
7	☐	1.000		3048605.51		A	0.8
8	☐	1.000		3105946.13		A	0.6

45 Sc (ISTD) [He]

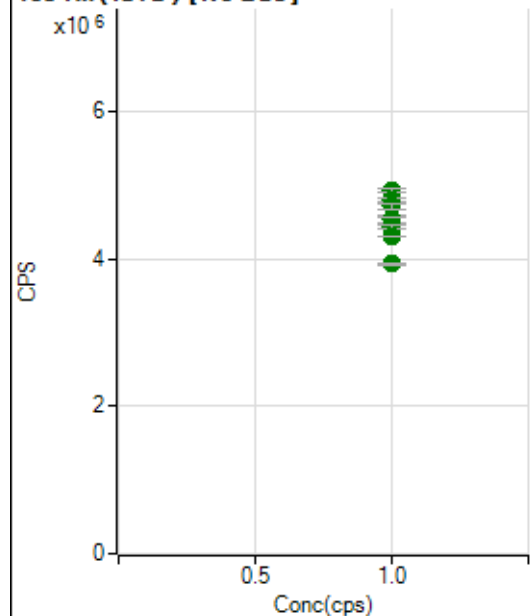
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		284973.16		P	0.3
2	☐	1.000		283702.92		P	0.1
3	☐	1.000		278395.38		P	0.8
4	☐	1.000		268315.50		P	0.9
5	☐	1.000		262705.17		P	0.7
6	☐	1.000		257164.54		P	0.7
7	☐	1.000		252895.97		P	0.3
8	☐	1.000		254299.97		P	0.4

89 Y (ISTD) [No Gas]

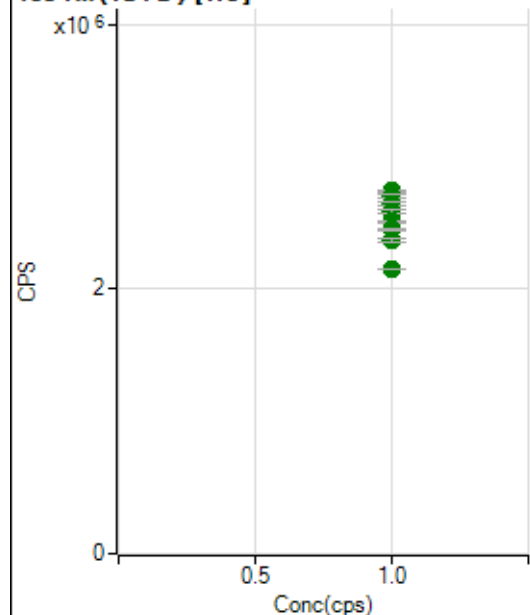
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7899731.76		A	0.9
2	☐	1.000		7554161.90		A	6.1
3	☐	1.000		7840115.16		A	0.5
4	☐	1.000		7740521.06		A	0.4
5	☐	1.000		7478754.33		A	0.7
6	☐	1.000		7470380.51		A	0.5
7	☐	1.000		7378551.49		A	1.0
8	☐	1.000		7115812.05		A	1.6

89 Y (ISTD) [He]

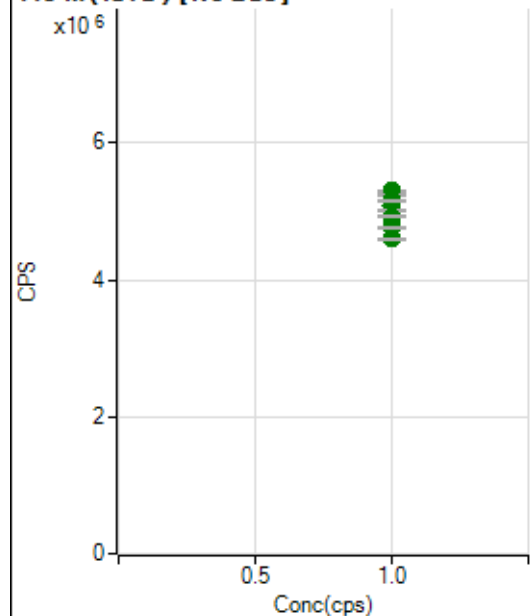
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1846060.53		A	0.4
2	☐	1.000		1828533.08		A	1.0
3	☐	1.000		1792666.52		A	1.2
4	☐	1.000		1767911.19		A	0.3
5	☐	1.000		1721635.25		A	1.2
6	☐	1.000		1689601.99		A	1.4
7	☐	1.000		1673511.94		A	0.5
8	☐	1.000		1649336.05		A	0.8

103 Rh (ISTD) [No Gas]

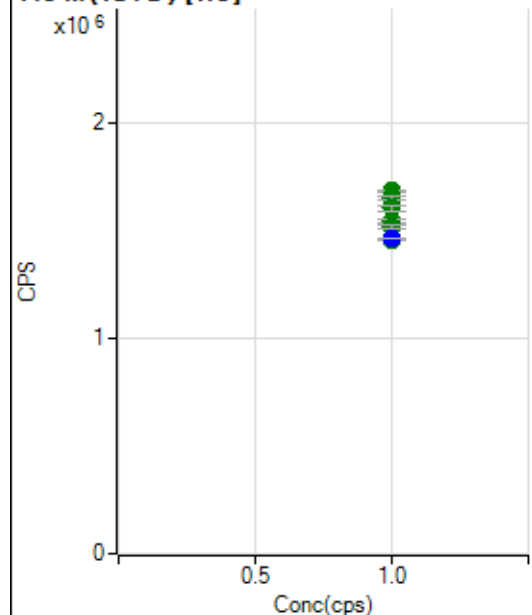
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4920881.14		A	0.9
2	☐	1.000		4743144.45		A	6.9
3	☐	1.000		4798153.85		A	0.9
4	☐	1.000		4710773.92		A	1.4
5	☐	1.000		4529727.08		A	1.4
6	☐	1.000		4434709.17		A	1.0
7	☐	1.000		4306098.51		A	0.4
8	☐	1.000		3936413.73		A	0.8

103 Rh (ISTD) [He]

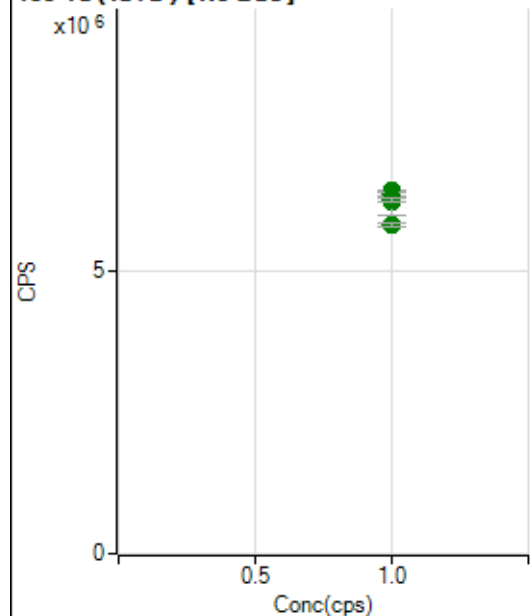
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2739944.18		A	0.3
2	☐	1.000		2699350.83		A	1.1
3	☐	1.000		2640189.09		A	1.3
4	☐	1.000		2589098.03		A	1.0
5	☐	1.000		2505928.94		A	0.6
6	☐	1.000		2448498.31		A	0.9
7	☐	1.000		2367349.84		A	0.7
8	☐	1.000		2149250.58		A	0.1

115 In (ISTD) [No Gas]

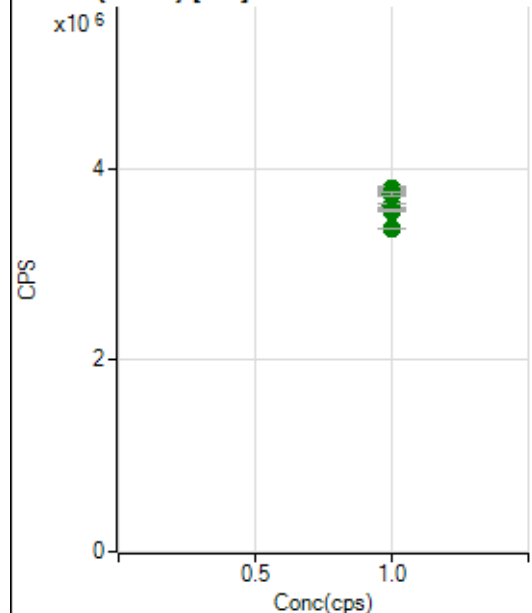
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5299396.81		A	0.4
2	☐	1.000		5095054.93		A	7.1
3	☐	1.000		5239224.08		A	0.6
4	☐	1.000		5159766.14		A	0.7
5	☐	1.000		5009579.56		A	0.4
6	☐	1.000		4920810.71		A	0.5
7	☐	1.000		4768449.86		A	0.6
8	☐	1.000		4600110.86		A	0.7

115 In (ISTD) [He]

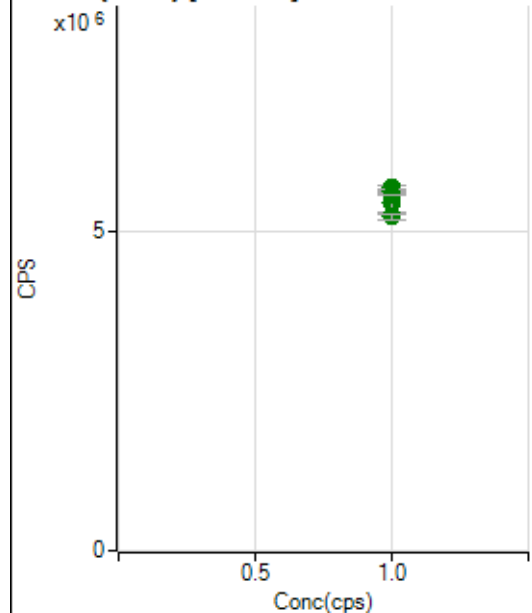
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1681809.94		A	0.8
2	☐	1.000		1658208.09		A	0.2
3	☐	1.000		1649154.76		A	1.1
4	☐	1.000		1602737.84		A	1.9
5	☐	1.000		1540934.58		A	0.9
6	☐	1.000		1515369.94		A	1.6
7	☐	1.000		1455311.63		A	0.6
8	☐	1.000		1463082.55		P	0.3

159 Tb (ISTD) [No Gas]

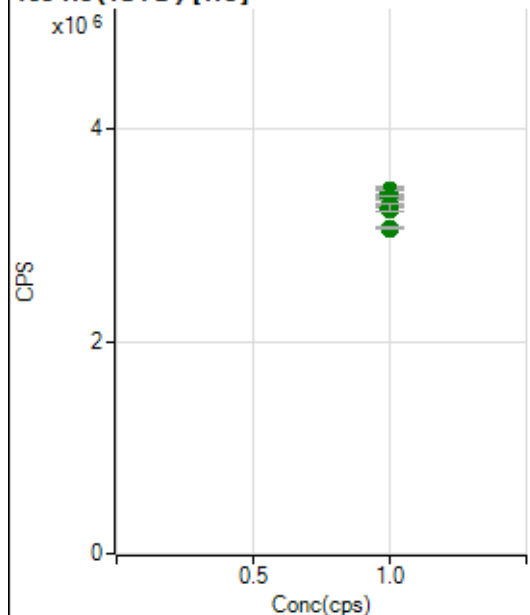
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6425783.45		A	0.6
2	☐	1.000		6235272.06		A	6.9
3	☐	1.000		6388892.89		A	1.9
4	☐	1.000		6437788.31		A	0.8
5	☐	1.000		6383072.06		A	0.9
6	☐	1.000		6295734.00		A	2.0
7	☐	1.000		6270691.71		A	1.0
8	☐	1.000		5821977.72		A	1.1

159 Tb (ISTD) [He]

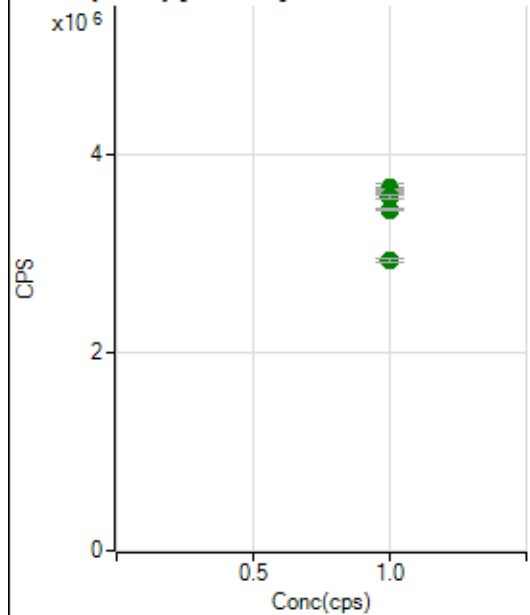
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3783515.36		A	0.7
2	☐	1.000		3775904.46		A	1.6
3	☐	1.000		3747845.33		A	1.2
4	☐	1.000		3744384.04		A	1.8
5	☐	1.000		3729112.13		A	1.0
6	☐	1.000		3610792.03		A	1.0
7	☐	1.000		3558810.99		A	1.1
8	☐	1.000		3373676.03		A	0.2

165 Ho (ISTD) [No Gas]

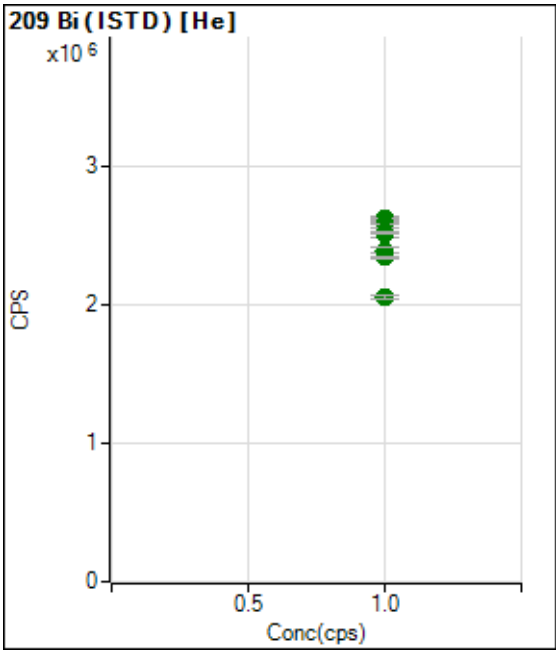
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5630345.92		A	1.2
2	☐	1.000		5474550.44		A	6.0
3	☐	1.000		5696189.53		A	1.7
4	☐	1.000		5689117.10		A	1.7
5	☐	1.000		5669520.44		A	0.7
6	☐	1.000		5648595.47		A	0.8
7	☐	1.000		5583743.28		A	0.3
8	☐	1.000		5242426.59		A	1.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3418148.35		A	2.3
2	☐	1.000		3404835.99		A	2.4
3	☐	1.000		3395603.14		A	2.1
4	☐	1.000		3349604.26		A	1.1
5	☐	1.000		3283010.75		A	1.3
6	☐	1.000		3247000.73		A	1.6
7	☐	1.000		3258241.58		A	2.3
8	☐	1.000		3069111.19		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3663668.18		A	0.8
2	☐	1.000		3583222.77		A	6.5
3	☐	1.000		3609966.20		A	0.4
4	☐	1.000		3603646.30		A	0.5
5	☐	1.000		3646206.86		A	0.5
6	☐	1.000		3567239.15		A	1.1
7	☐	1.000		3445697.10		A	0.1
8	☐	1.000		2930496.03		A	1.1



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2617501.04		A	1.7
2	☐	1.000		2610587.88		A	0.5
3	☐	1.000		2578766.35		A	0.2
4	☐	1.000		2522650.24		A	2.6
5	☐	1.000		2516892.25		A	0.4
6	☐	1.000		2392134.18		A	1.3
7	☐	1.000		2341878.42		A	0.8
8	☐	1.000		2049757.23		A	1.3

US EPA Tune Check Report

Operator Name

Jaswal

Acq/Data Batch

D:\Agilent\ICPMH\1\DATA\IP7052924-PM.b

Acq. Date-Time

2024-05-29 11:14:35

Report Comment

Instrument Name

G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6704	67037.14			0.382	5.000
24		58259	582594.01			0.928	5.000
25		7475	74749.40			0.833	5.000
26		8289	82893.61			1.011	5.000
59		56072	560718.54			0.384	5.000
113		7388	73877.31			0.692	5.000
115		91775	917751.65			0.317	5.000
206		23285	232849.58			0.506	5.000
207		21216	212159.88			0.350	5.000
208		50608	506077.99			0.572	5.000
220		0	1.30			58.330	

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

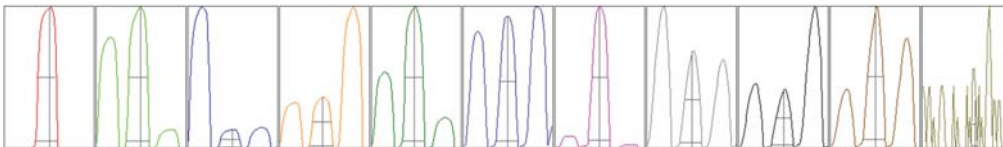
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6681	6736	6726	6687	6689
24	57506	57960	58340	58620	58872
25	7399	7438	7462	7527	7549
26	8159	8253	8340	8332	8362
59	55763	56294	56204	55942	56156
113	7331	7416	7374	7356	7460
115	92162	91590	91996	91473	91654
206	23186	23260	23163	23407	23409
207	21144	21238	21193	21171	21334
208	50522	50581	50410	50417	51109

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11253.90	9.05	8.90 - 9.10	
24	95640.81	24.00	23.90 - 24.10	
25	12233.21	25.00	24.90 - 25.10	
26	13693.81	25.95	25.90 - 26.10	
59	95769.20	58.95	58.90 - 59.10	
113	14390.20	113.00	112.90 - 113.10	
115	176672.32	115.00	114.90 - 115.10	
206	47080.86	206.05	205.90 - 206.10	
207	42981.62	207.05	206.90 - 207.10	
208	102797.10	208.05	207.90 - 208.10	
220	0.15	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.738	0.900	
24	0.64	0.781	0.900	
25	0.63	0.776	0.900	
26	0.63	0.784	0.900	
59	0.61	0.754	0.900	
113	0.52	0.736	0.900	
115	0.52	0.726	0.900	
206	0.50	0.742	0.900	
207	0.50	0.741	0.900	
208	0.51	0.749	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	14.8 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	135	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.7 mV	Analog HV	2309 V	Pulse HV	1352 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16901	169008.26			3.367	
89		21896	218961.58			3.538	
205		24774	247736.80			3.153	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	17243	15895	17022	17124	17221
89	22378	20523	22090	22217	22273
205	25271	23385	25066	25089	25056

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.9 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	135	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.14		
Hardware Settings					
Torch					
Torch H	-0.3 mm	Torch V	0.4 mm		
EM					
Discriminator	4.7 mV	Analog HV	2309 V	Pulse HV	1352 V