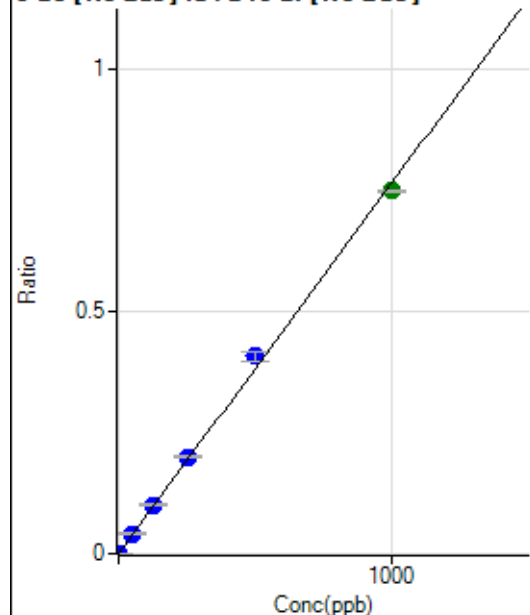


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7122023 MS.b\
Analysis File: P7122023 MS.batch.bin
DA Date-Time: 2023-12-20 18:14:31
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-12-20 09:43:13
2	005CALS.d	S02	2023-12-20 09:46:29
3	006CALS.d	S03	2023-12-20 09:49:46
4	007CALS.d	S04	2023-12-20 09:52:51
5	008CALS.d	S05	2023-12-20 09:55:49
6	009CALS.d	S06	2023-12-20 09:58:37
7	010CALS.d	S07	2023-12-20 10:01:25
8	011CALS.d	S08	2023-12-20 10:04:10

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	130.00	0.0001	P	12.8
2	☐	1.000	0.955	1670.11	0.0008	P	3.9
3	☐	50.000	54.336	84835.23	0.0416	P	0.4
4	☐	125.000	132.044	204816.86	0.1010	P	1.8
5	☐	250.000	261.931	396627.79	0.2002	P	0.9
6	☐	500.000	532.357	768110.01	0.4068	P	5.6
7	☐	1000.000	979.741	1414275.40	0.7487	A	0.2
8	☐			795.58	0.0005	P	3.9

$$y = 7.6409\text{E-}004 * x + 6.2470\text{E-}005$$

$$R = 0.9991$$

$$DL = 0.03132$$

$$BEC = 0.08176$$

Weight: <None>

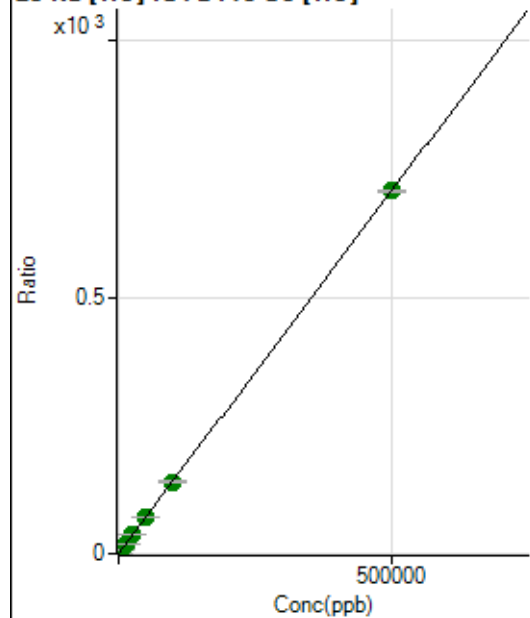
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j 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	11308.67	0.0351	P	2.0
2	☐	500.000	470.808	223827.29	0.7008	P	0.2
3	☐	5000.000	5492.108	2147612.82	7.8001	A	8.3
4	☐	12500.000	12728.447	5095871.90	18.0311	A	0.9
5	☐	25000.000	25436.050	10100453.67	35.9975	A	1.0
6	☐	50000.000	50394.290	20145905.39	71.2843	A	3.2
7	☐	100000.00	99128.414	38884151.92	140.1863	A	3.6
8	☐	500000.00	500102.48	188763846.0	707.0973	A	0.5

$$y = 0.0014 * x + 0.0351$$

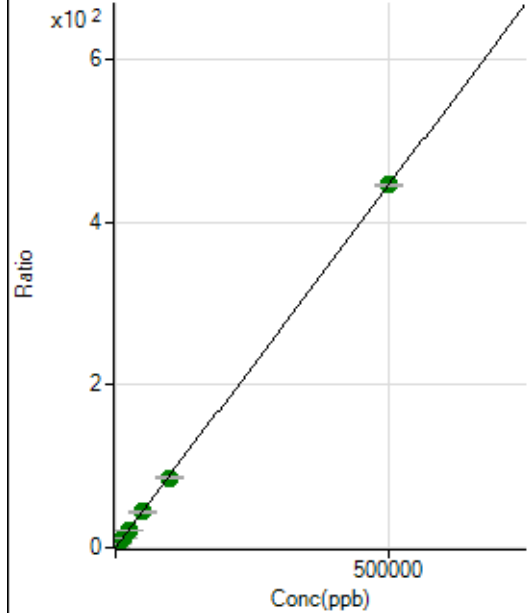
$$R = 1.0000$$

$$DL = 1.503$$

$$BEC = 24.85$$

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	427.79	0.0013	P	7.5
2	☐	500.000	470.826	134130.26	0.4200	P	0.5
3	☐	5000.000	5465.080	1338492.83	4.8605	A	8.0
4	☐	12500.000	12572.702	3159473.91	11.1801	A	2.0
5	☐	25000.000	25045.172	6248404.49	22.2698	A	1.2
6	☐	50000.000	49458.072	12429258.29	43.9761	A	2.8
7	☐	100000.00	96451.201	23786009.92	85.7593	A	3.9
8	☐	500000.00	500755.25	118857557.1	445.2392	A	0.8

$$y = 8.8913\text{E-}004 * x + 0.0013$$

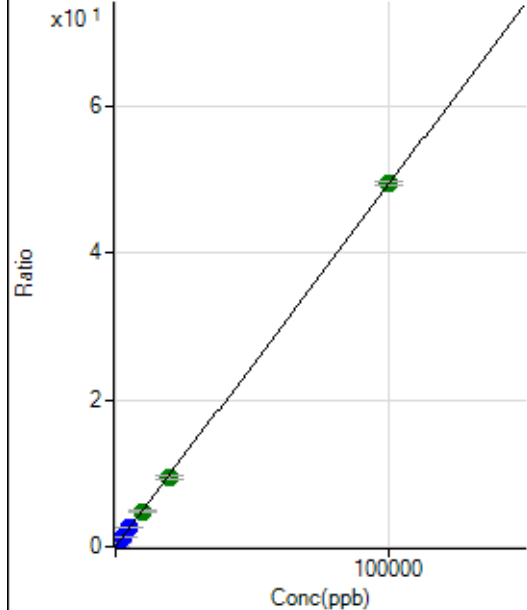
$$R = 1.0000$$

$$DL = 0.3366$$

$$BEC = 1.495$$

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	138.89	0.0004	P	21.2
2	☐	20.000	18.618	3073.67	0.0096	P	3.8
3	☐	1000.000	1136.492	154622.69	0.5616	P	8.4
4	☐	2500.000	2571.398	358963.98	1.2702	P	1.4
5	☐	5000.000	5112.207	708336.02	2.5248	P	2.0
6	☐	10000.000	9745.028	1360143.52	4.8125	A	3.1
7	☐	20000.000	19153.086	2623176.28	9.4581	A	4.1
8	☐	100000.00	100186.12	13206354.81	49.4718	A	1.0

$$y = 4.9379\text{E-}004 * x + 4.3141\text{E-}004$$

$$R = 1.0000$$

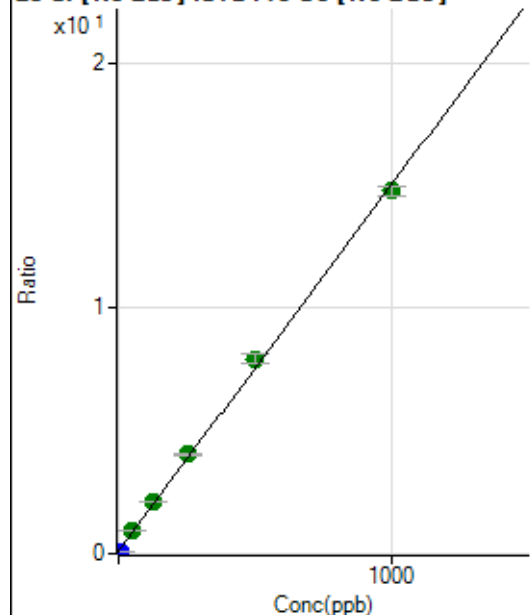
$$DL = 0.555$$

$$BEC = 0.8737$$

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	441033.95	0.1049	P	1.1
2	☐	10.000	0.279	458063.46	0.1090	P	0.8
3	☐	50.000	55.072	3762312.51	0.9272	A	0.3
4	☐	125.000	132.775	8002484.05	2.0875	A	0.7
5	☐	250.000	264.120	15023181.58	4.0489	A	1.4
6	☐	500.000	524.445	28746200.40	7.9362	A	5.0
7	☐	1000.000	983.119	54409058.08	14.7854	A	2.8
8	☐			1446150.69	0.4176	A	7.8

$$y = 0.0149 * x + 0.1049$$

$$R = 0.9993$$

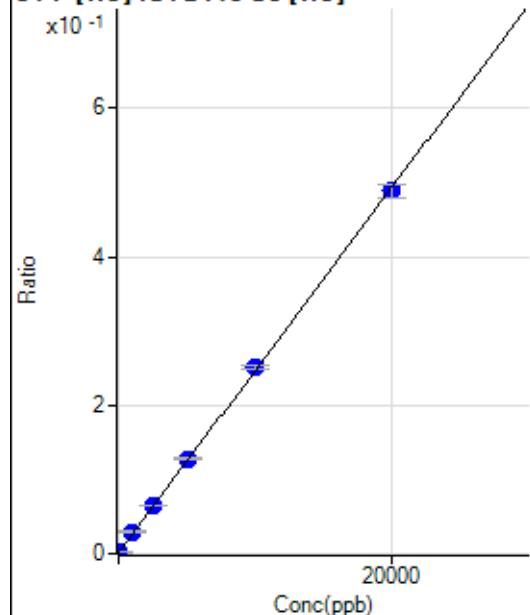
$$DL = 0.2422$$

$$BEC = 7.022$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-15.321	217.78	0.0007	P	7.5
2	☐	0.000	15.321	456.68	0.0014	P	9.3
3	☐	1000.000	1130.981	7948.81	0.0289	P	7.3
4	☐	2500.000	2581.365	18229.82	0.0645	P	1.7
5	☐	5000.000	5166.502	35924.33	0.1280	P	2.1
6	☐	10000.000	10196.325	71137.43	0.2517	P	2.6
7	☐	20000.000	19843.493	135584.02	0.4888	P	3.7
8	☐			262.23	0.0010	P	13.0

$$y = 2.4580E-005 * x + 0.0011$$

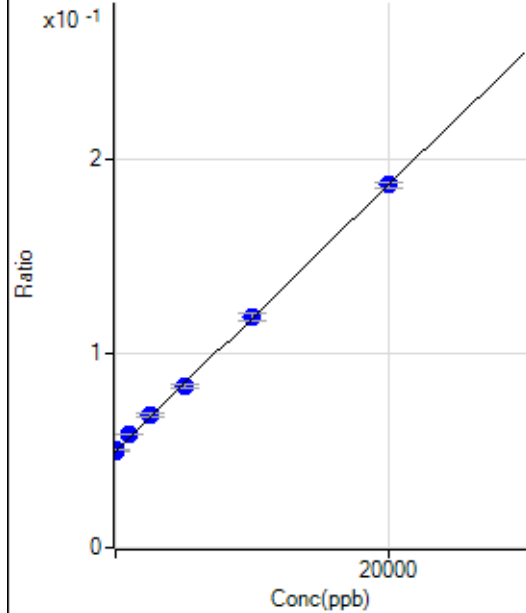
$$R = 0.9999$$

$$DL = 11.27$$

$$BEC = 42.86$$

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	-29.252	209179.00	0.0497	P	1.1
2	☐	0.000	29.252	210650.88	0.0501	P	0.1
3	☐	1000.000	1215.295	236433.81	0.0583	P	0.6
4	☐	2500.000	2707.064	262607.77	0.0685	P	2.1
5	☐	5000.000	4869.389	309205.29	0.0833	P	2.8
6	☐	10000.000	10053.983	430856.66	0.1189	P	4.0
7	☐	20000.000	19969.013	688064.05	0.1870	P	1.8
8	☐			160808.54	0.0465	P	2.9

$$y = 6.8618\text{E-}006 * x + 0.0499$$

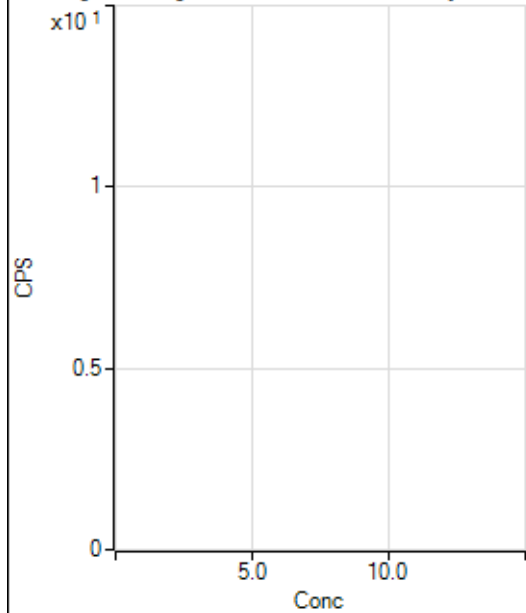
$$R = 0.9999$$

$$DL = 136$$

$$BEC = 7277$$

Weight: <None>

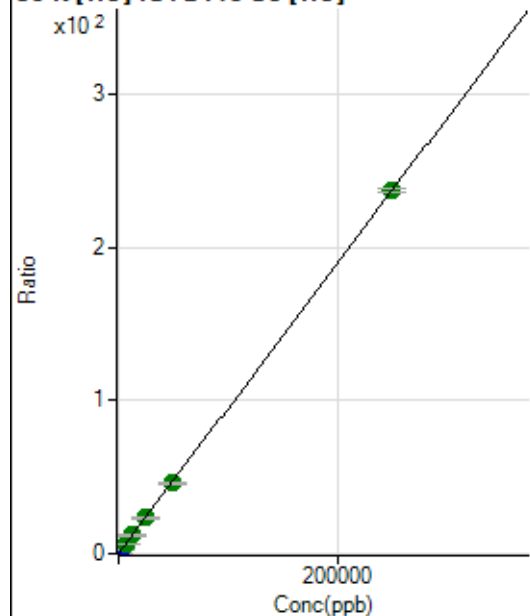
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j 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	46023.79	0.1430	P	0.6
2	☐	500.000	472.497	188335.77	0.5897	P	1.0
3	☐	2500.000	2898.796	793845.89	2.8834	P	8.3
4	☐	6250.000	6255.676	1711788.50	6.0568	A	0.6
5	☐	12500.000	12470.055	3347714.88	11.9315	A	1.3
6	☐	25000.000	24705.628	6640748.93	23.4983	A	3.3
7	☐	50000.000	48601.863	12784790.23	46.0884	A	3.3
8	☐	250000.00	250306.48	63204411.28	236.7680	A	1.0

$$y = 9.4534\text{E-}004 * x + 0.1430$$

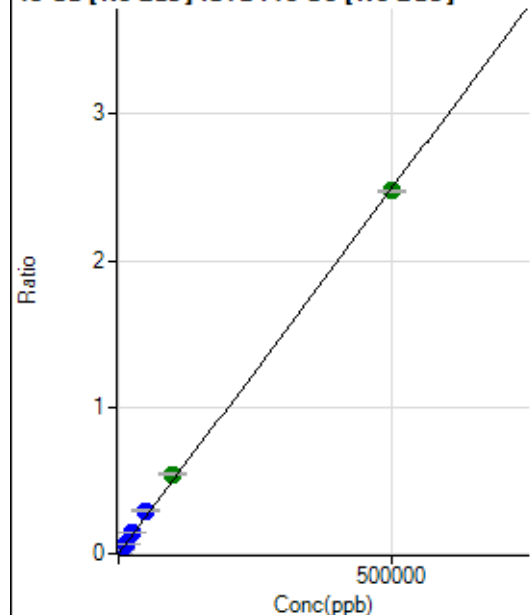
$$R = 1.0000$$

$$DL = 2.786$$

$$BEC = 151.3$$

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	511.13	0.0001	P	8.5
2	☐	500.000	464.618	10230.19	0.0024	P	0.7
3	☐	5000.000	5720.569	116052.72	0.0286	P	0.4
4	☐	12500.000	14297.536	273334.70	0.0713	P	0.8
5	☐	25000.000	28672.831	530119.98	0.1429	P	0.8
6	☐	50000.000	58685.146	1058831.21	0.2923	P	4.7
7	☐	100000.00	108822.05	1994622.78	0.5419	A	1.2
8	☐	500000.00	497131.32	8567385.85	2.4751	A	0.5

$$y = 4.9786E-006 * x + 1.2145E-004$$

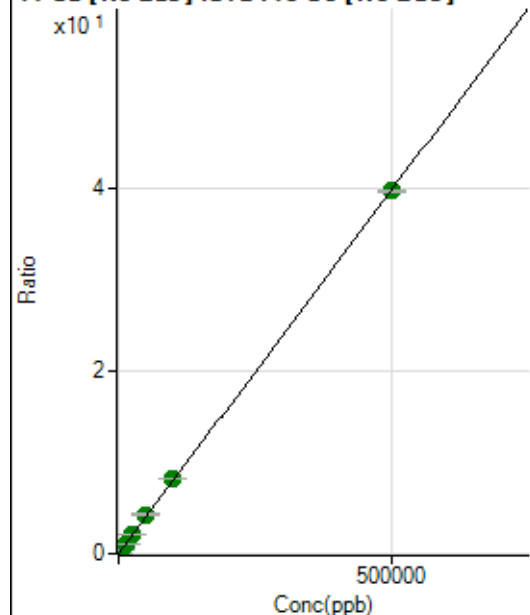
$$R = 0.9997$$

$$DL = 6.196$$

$$BEC = 24.4$$

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	6143.52	0.0015	P	1.9
2	☐	500.000	466.914	162668.98	0.0387	P	0.8
3	☐	5000.000	5189.393	1685771.48	0.4155	A	1.4
4	☐	12500.000	13108.079	4014735.11	1.0473	A	1.1
5	☐	25000.000	26010.338	7705859.19	2.0767	A	0.6
6	☐	50000.000	53334.304	15416225.74	4.2568	A	5.6
7	☐	100000.00	102883.07	30219227.61	8.2101	A	1.1
8	☐	500000.00	499022.37	137825625.7	39.8166	A	0.8

$$y = 7.9786E-005 * x + 0.0015$$

$$R = 1.0000$$

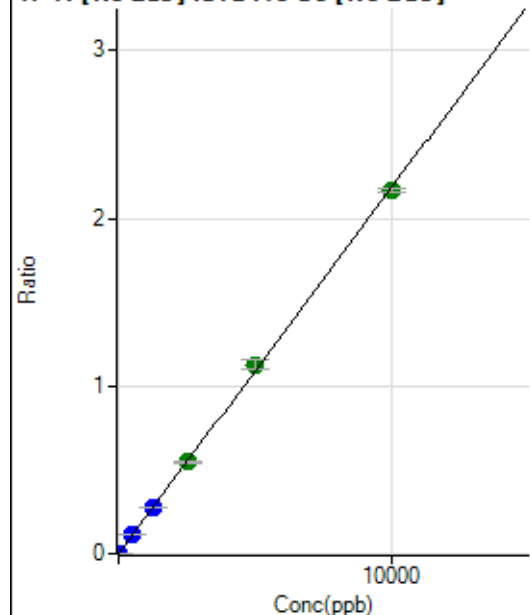
$$DL = 1.06$$

$$BEC = 18.31$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	11.3
2	☐	5.000	4.679	4360.66	0.0010	P	5.3
3	☐	500.000	505.720	448050.79	0.1104	P	0.8
4	☐	1250.000	1270.366	1063295.78	0.2774	P	0.8
5	☐	2500.000	2515.736	2037882.59	0.5493	A	2.0
6	☐	5000.000	5160.870	4081484.35	1.1268	A	4.9
7	☐	10000.000	9912.799	7965934.19	2.1642	A	1.2
8	☐			3567.12	0.0010	P	10.9

$$y = 2.1833\text{E-}004 * x + 1.6378\text{E-}005$$

$$R = 0.9998$$

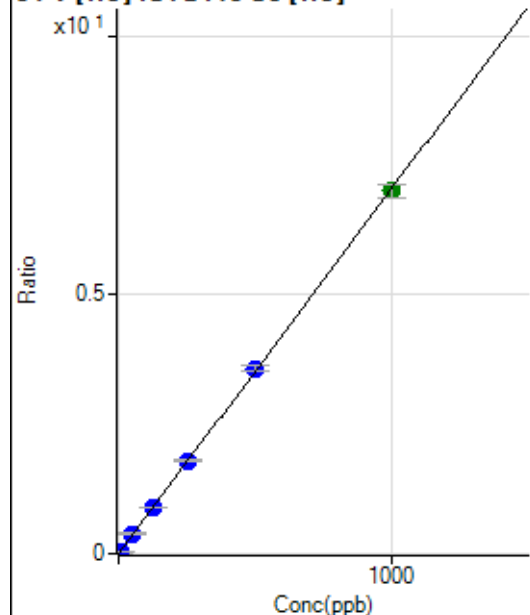
$$DL = 0.02541$$

$$BEC = 0.07502$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0000	P	57.1
2	☐	5.000	4.654	10489.28	0.0328	P	2.7
3	☐	50.000	55.325	107445.40	0.3902	P	7.9
4	☐	125.000	127.995	255082.77	0.9026	P	1.4
5	☐	250.000	254.521	503557.22	1.7948	P	1.6
6	☐	500.000	507.490	1011431.34	3.5786	P	2.9
7	☐	1000.000	994.486	1945448.56	7.0127	A	3.4
8	☐			2092.39	0.0078	P	9.8

$$y = 0.0071 * x + 2.7584\text{E-}005$$

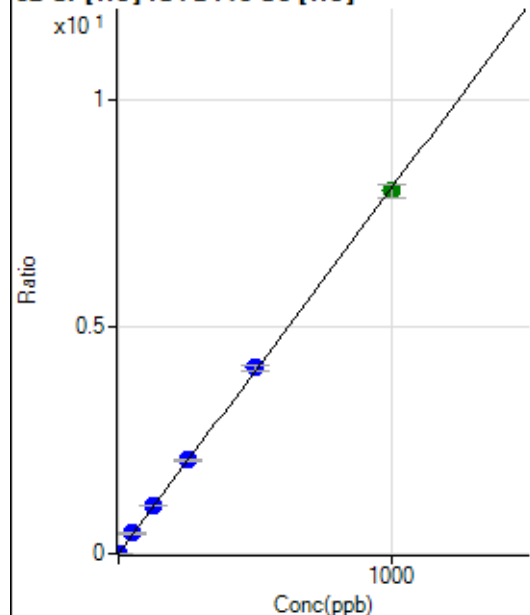
$$R = 0.9999$$

$$DL = 0.006699$$

$$BEC = 0.003912$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	888.92	0.0028	P	6.3
2	☐	2.000	1.883	5727.81	0.0179	P	2.9
3	☐	50.000	55.986	124963.12	0.4538	P	8.1
4	☐	125.000	129.428	295459.34	1.0455	P	1.1
5	☐	250.000	257.370	582456.23	2.0762	P	2.1
6	☐	500.000	508.977	1159571.26	4.1032	P	3.3
7	☐	1000.000	992.816	2219204.97	8.0011	A	4.0
8	☐			66937.29	0.2507	P	0.8

$$y = 0.0081 * x + 0.0028$$

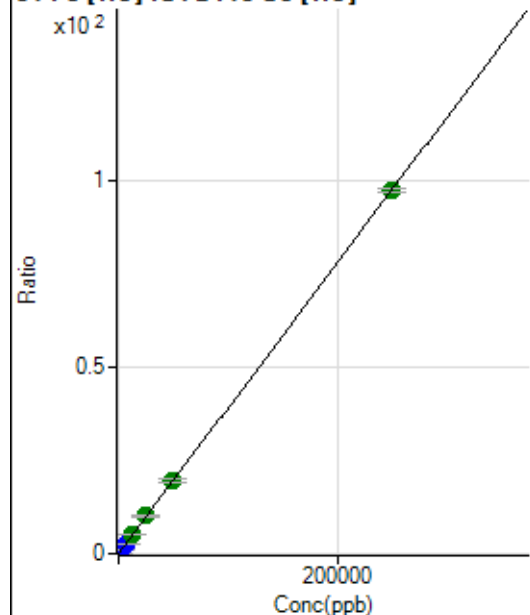
$$R = 0.9999$$

$$DL = 0.06524$$

$$BEC = 0.3428$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	983.38	0.0031	P	0.6
2	☐	50.000	49.482	7133.97	0.0223	P	2.8
3	☐	2500.000	3019.084	324774.63	1.1795	P	8.2
4	☐	6250.000	6950.691	766343.32	2.7116	P	0.8
5	☐	12500.000	13074.029	1430355.59	5.0977	A	1.2
6	☐	25000.000	26061.816	2871139.33	10.1588	A	2.9
7	☐	50000.000	50538.557	5463084.50	19.6969	A	4.0
8	☐	250000.00	249734.69	25979149.33	97.3198	A	1.0

$$y = 3.8968E-004 * x + 0.0031$$

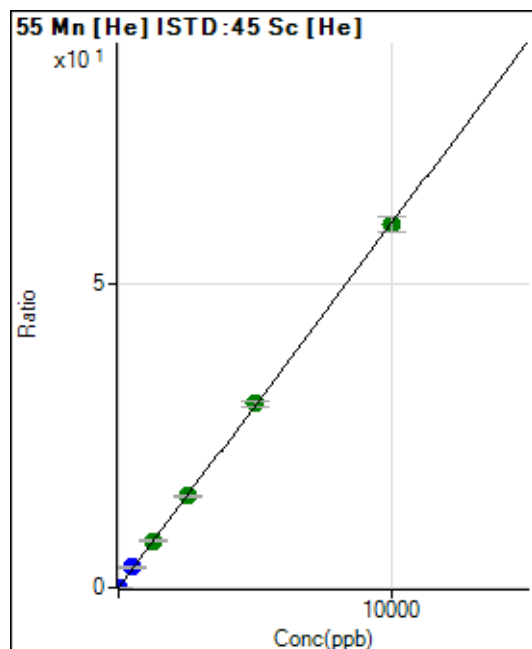
$$R = 1.0000$$

$$DL = 0.1441$$

$$BEC = 7.842$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	202.23	0.0006	P	20.3
2	☐	1.000	0.946	2017.93	0.0063	P	3.6
3	☐	500.000	564.583	935343.59	3.3969	P	8.1
4	☐	1250.000	1292.289	2197097.38	7.7744	A	1.6
5	☐	2500.000	2527.506	4265713.90	15.2049	A	2.2
6	☐	5000.000	5057.204	8598164.66	30.4224	A	3.0
7	☐	10000.000	9956.006	16610958.36	59.8913	A	4.1
8	☐			65398.95	0.2450	P	0.5

$$y = 0.0060 * x + 6.2856E-004$$

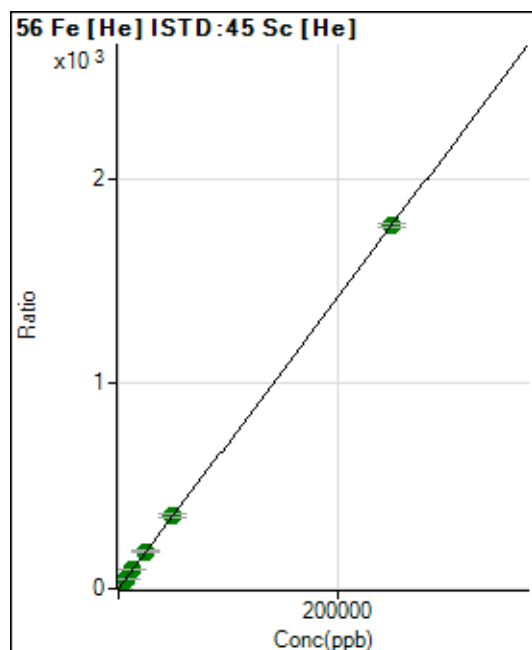
$$R = 1.0000$$

$$DL = 0.06367$$

$$BEC = 0.1045$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7423.00	0.0231	P	3.4
2	☐	50.000	49.554	119344.17	0.3737	P	0.5
3	☐	2500.000	2803.551	5468160.55	19.8578	A	8.0
4	☐	6250.000	6544.580	13092245.78	46.3250	A	0.9
5	☐	12500.000	12897.098	25606286.56	91.2681	A	1.6
6	☐	25000.000	25520.826	51033538.13	180.5791	A	3.2
7	☐	50000.000	50245.085	98593638.53	355.4996	A	4.2
8	☐	250000.00	249868.64	471912184.0	1.767.806	A	0.9

$$y = 0.0071 * x + 0.0231$$

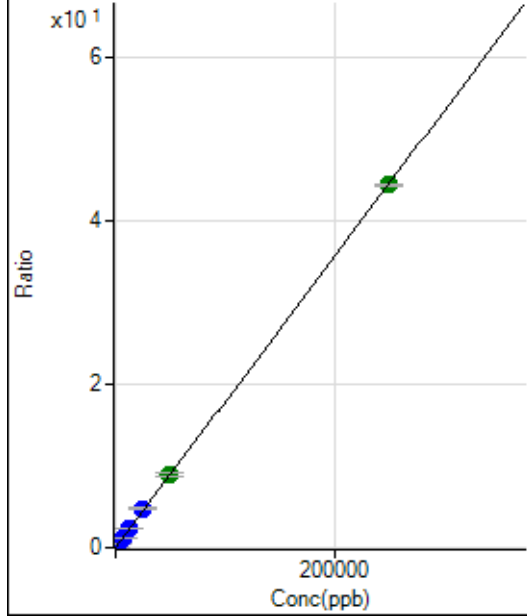
$$R = 1.0000$$

$$DL = 0.3341$$

$$BEC = 3.26$$

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	643.35	0.0020	P	10.4
2	☐	50.000	49.522	3445.99	0.0108	P	5.8
3	☐	2500.000	2973.555	145947.06	0.5299	P	7.8
4	☐	6250.000	6859.645	344743.01	1.2199	P	1.5
5	☐	12500.000	13576.829	676836.97	2.4125	P	1.7
6	☐	25000.000	26872.363	1348889.11	4.7730	P	3.2
7	☐	50000.000	50498.037	2487425.22	8.9675	A	3.6
8	☐	250000.00	249639.33	11832271.21	44.3236	A	0.7

$$y = 1.7754\text{E-}004 * x + 0.0020$$

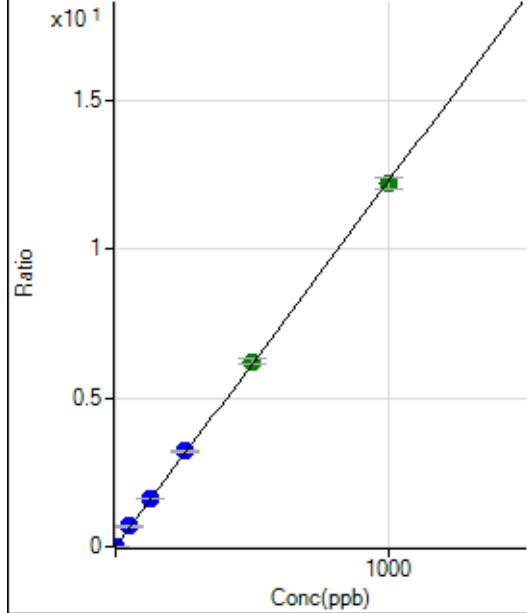
$$R = 1.0000$$

$$DL = 3.503$$

$$BEC = 11.26$$

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	54.44	0.0002	P	18.6
2	☐	1.000	1.007	3999.45	0.0125	P	3.4
3	☐	50.000	57.347	193817.84	0.7038	P	7.8
4	☐	125.000	130.967	454162.96	1.6070	P	1.0
5	☐	250.000	261.084	898666.55	3.2034	P	2.3
6	☐	500.000	506.696	1757124.44	6.2168	A	2.9
7	☐	1000.000	992.768	3378937.90	12.1805	A	3.2
8	☐			10894.06	0.0408	P	3.1

$$y = 0.0123 * x + 1.6915\text{E-}004$$

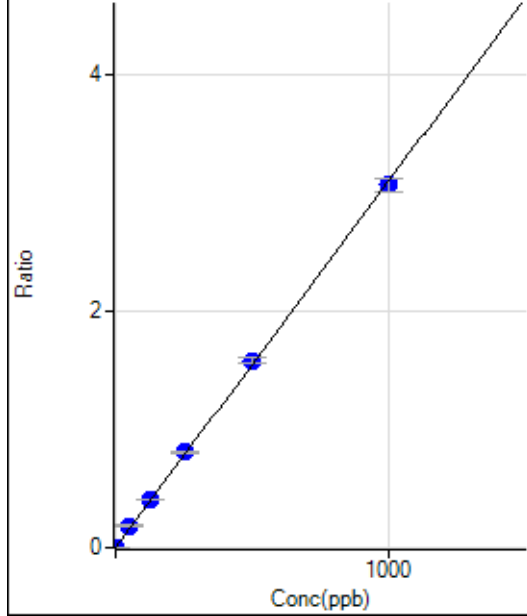
$$R = 0.9999$$

$$DL = 0.007698$$

$$BEC = 0.01379$$

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	121.11	0.0004	P	12.5
2	☐	1.000	0.878	988.93	0.0031	P	9.9
3	☐	50.000	58.149	49659.74	0.1804	P	8.5
4	☐	125.000	132.362	115906.70	0.4101	P	1.1
5	☐	250.000	261.991	227645.01	0.8114	P	1.9
6	☐	500.000	510.860	447001.90	1.5818	P	3.6
7	☐	1000.000	990.245	850378.10	3.0659	P	3.7
8	☐			21261.84	0.0796	P	1.3

$$y = 0.0031 * x + 3.7638E-004$$

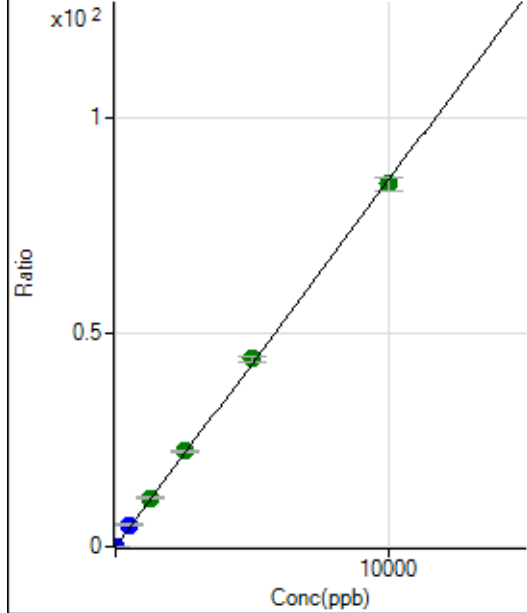
$$R = 0.9998$$

$$DL = 0.04571$$

$$BEC = 0.1216$$

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	2053.50	0.0064	P	3.2
2	☐	2.000	1.893	7208.46	0.0226	P	3.3
3	☐	500.000	585.500	1380984.37	5.0148	P	8.0
4	☐	1250.000	1327.085	3209634.33	11.3584	A	3.2
5	☐	2500.000	2606.366	6257335.74	22.3016	A	1.9
6	☐	5000.000	5119.832	12379624.12	43.8021	A	2.9
7	☐	10000.000	9899.582	23492069.93	84.6887	A	3.4
8	☐			22771.82	0.0853	P	0.8

$$y = 0.0086 * x + 0.0064$$

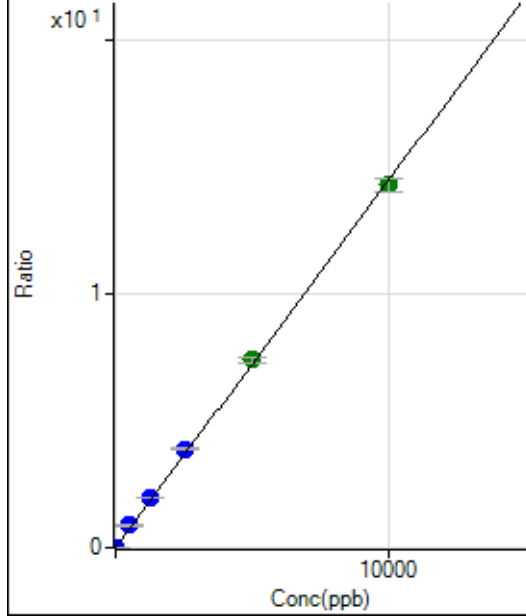
$$R = 0.9998$$

$$DL = 0.07122$$

$$BEC = 0.746$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1343.41	0.0042	P	1.1
2	☐	5.000	4.479	3399.31	0.0106	P	1.7
3	☐	500.000	603.735	241237.80	0.8759	P	7.8
4	☐	1250.000	1353.664	553567.96	1.9588	P	1.2
5	☐	2500.000	2673.715	1084285.11	3.8648	P	1.9
6	☐	5000.000	5115.571	2088603.29	7.3907	A	3.4
7	☐	10000.000	9880.641	3958422.44	14.2712	A	3.9
8	☐			577201.22	2.1621	P	0.3

$$y = 0.0014 * x + 0.0042$$

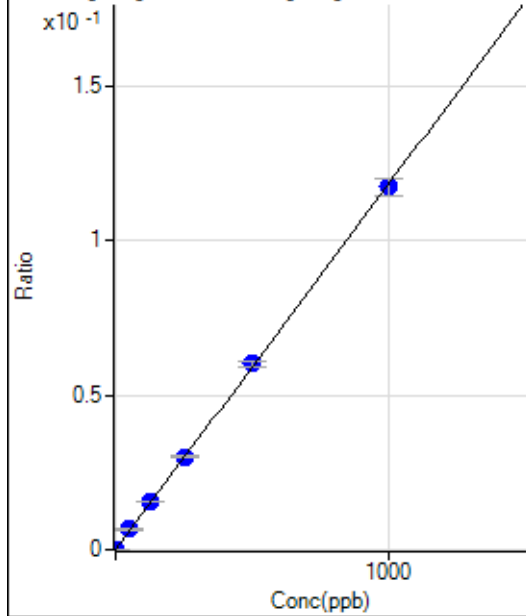
$$R = 0.9997$$

$$DL = 0.09486$$

$$BEC = 2.891$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	34.8
2	☐	1.000	0.998	313.34	0.0001	P	8.5
3	☐	50.000	55.850	14761.86	0.0066	P	7.4
4	☐	125.000	132.483	35656.12	0.0157	P	1.5
5	☐	250.000	254.092	70328.87	0.0300	P	0.9
6	☐	500.000	509.647	139825.07	0.0603	P	2.8
7	☐	1000.000	992.926	269287.03	0.1174	P	4.6
8	☐			160.00	0.0001	P	6.3

$$y = 1.1822E-004 * x + 4.3154E-006$$

$$R = 0.9999$$

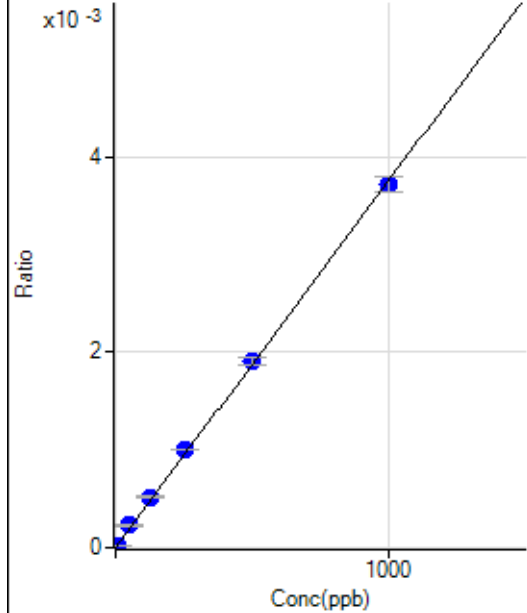
$$DL = 0.03813$$

$$BEC = 0.0365$$

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	4.405	42.22	0.0000	P	33.9
3	☐	50.000	60.741	511.12	0.0002	P	1.9
4	☐	125.000	138.773	1185.62	0.0005	P	6.4
5	☐	250.000	267.122	2345.76	0.0010	P	1.0
6	☐	500.000	508.682	4427.38	0.0019	P	4.4
7	☐	1000.000	989.123	8513.62	0.0037	P	4.1
8	☐			35.56	0.0000	P	6.0

$$y = 3.7511\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

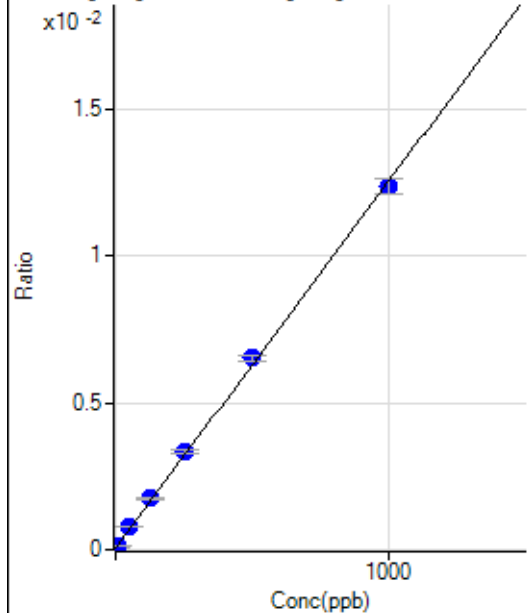
$$DL = 0$$

$$BEC = 0$$

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	131.11	0.0001	P	25.2
2	☐	5.000	5.099	293.34	0.0001	P	19.6
3	☐	50.000	58.881	1761.24	0.0008	P	7.7
4	☐	125.000	136.593	4000.58	0.0018	P	4.5
5	☐	250.000	261.846	7777.66	0.0033	P	3.7
6	☐	500.000	519.630	15191.23	0.0065	P	2.8
7	☐	1000.000	985.330	28370.58	0.0124	P	4.4
8	☐			215.56	0.0001	P	8.3

$$y = 1.2498\text{E-}005 * x + 5.0930\text{E-}005$$

$$R = 0.9996$$

$$DL = 3.076$$

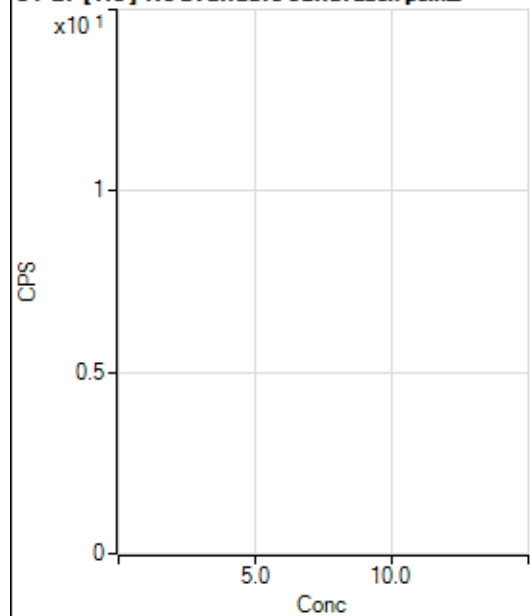
$$BEC = 4.075$$

Weight: <None>

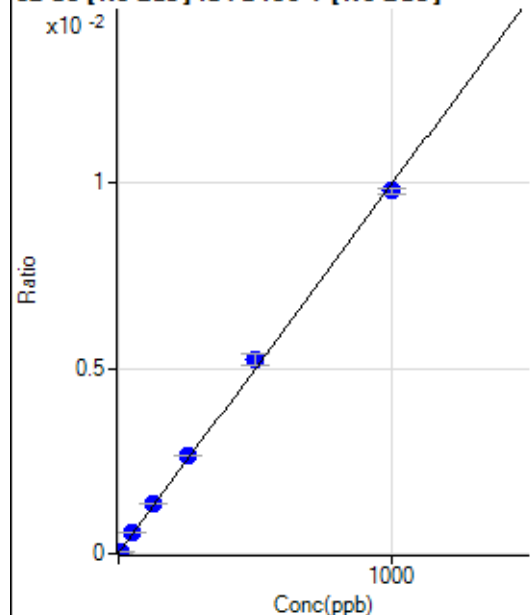
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10037.93		P	1.8
2	☐			10195.83		P	1.0
3	☐			9180.72		P	3.0
4	☐			8593.69		P	0.6
5	☐			8225.69		P	2.8
6	☐			8528.09		P	0.3
7	☐			8896.09		P	1.2
8	☐			13306.12		P	9.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			112.22		P	44.7
2	☐			126.67		P	20.9
3	☐			65.56		P	7.8
4	☐			41.11		P	16.9
5	☐			57.78		P	26.0
6	☐			52.22		P	24.2
7	☐			63.33		P	19.0
8	☐			1077.83		P	7.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.59	0.0000	P	17.8
2	☐	5.000	4.959	737.02	0.0001	P	0.5
3	☐	50.000	54.457	6050.72	0.0006	P	1.2
4	☐	125.000	132.908	14116.32	0.0013	P	1.9
5	☐	250.000	264.538	27252.19	0.0026	P	0.9
6	☐	500.000	525.154	53181.28	0.0052	P	5.1
7	☐	1000.000	982.577	100668.96	0.0098	P	1.2
8	☐			662.12	0.0001	P	3.3

$$y = 9.9430E-006 * x + 1.6210E-005$$

$$R = 0.9994$$

$$DL = 0.8702$$

$$BEC = 1.63$$

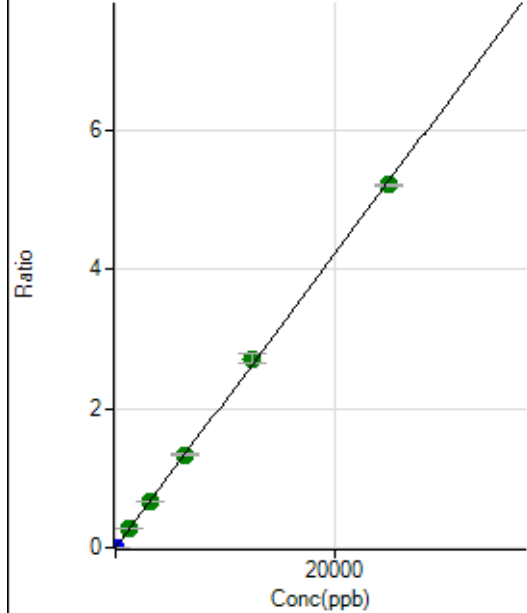
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			130.00		P	7.7
2	☐			125.56		P	4.1
3	☐			118.89		P	5.8
4	☐			96.67		P	23.9
5	☐			113.34		P	25.6
6	☐			107.78		P	15.9
7	☐			126.67		P	32.0
8	☐			114.45		P	19.4

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.00	0.0000	P	10.9
2	☐	1.000	0.931	2410.23	0.0002	P	6.5
3	☐	1250.000	1268.385	2893642.67	0.2667	A	1.6
4	☐	3125.000	3136.267	6959818.64	0.6595	A	1.2
5	☐	6250.000	6361.265	13775026.05	1.3377	A	0.4
6	☐	12500.000	12902.261	27545017.92	2.7131	A	5.3
7	☐	25000.000	24768.726	53578678.64	5.2084	A	0.9
8	☐			17239.21	0.0018	P	15.0

$$y = 2.1028\text{E-}004 * x + 1.8540\text{E-}005$$

$$R = 0.9998$$

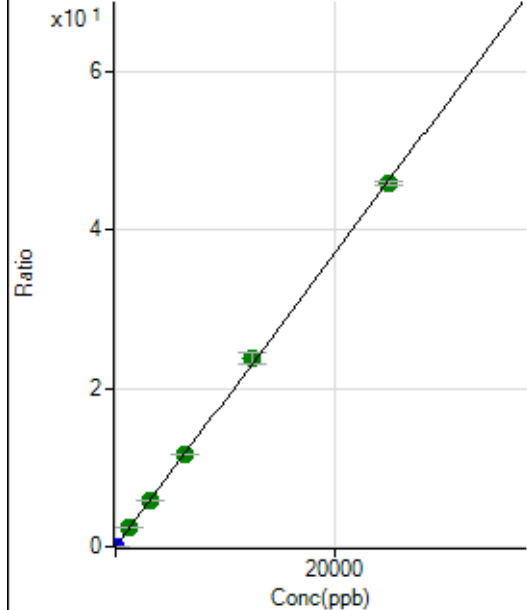
$$DL = 0.0289$$

$$BEC = 0.08817$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181.11	0.0000	P	16.7
2	☐	1.000	0.895	18776.51	0.0017	P	1.6
3	☐	1250.000	1269.012	25434780.45	2.3444	A	0.4
4	☐	3125.000	3152.664	61461799.08	5.8242	A	1.3
5	☐	6250.000	6318.565	120197213.7	11.6728	A	1.4
6	☐	12500.000	12842.961	240835136.4	23.7258	A	5.9
7	☐	25000.000	24806.970	471471135.2	45.8279	A	1.0
8	☐			151083.29	0.0161	P	15.3

$$y = 0.0018 * x + 1.5969\text{E-}005$$

$$R = 0.9999$$

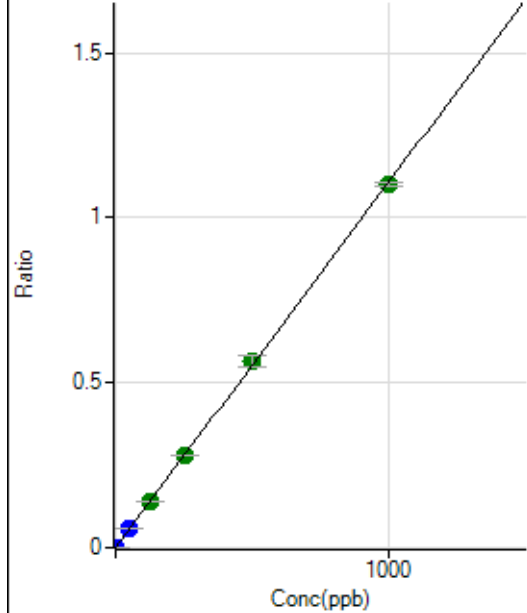
$$DL = 0.004341$$

$$BEC = 0.008644$$

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	402.23	0.0000	P	9.3
2	☐	1.000	0.864	11152.09	0.0010	P	0.9
3	☐	50.000	50.573	607649.96	0.0560	P	0.7
4	☐	125.000	125.141	1462086.16	0.1385	A	0.6
5	☐	250.000	252.256	2875273.22	0.2792	A	1.6
6	☐	500.000	512.143	5754773.18	0.5669	A	5.8
7	☐	1000.000	993.318	11310367.88	1.0995	A	1.0
8	☐			8570.36	0.0009	P	6.5

$$y = 0.0011 * x + 3.5479E-005$$

$$R = 0.9999$$

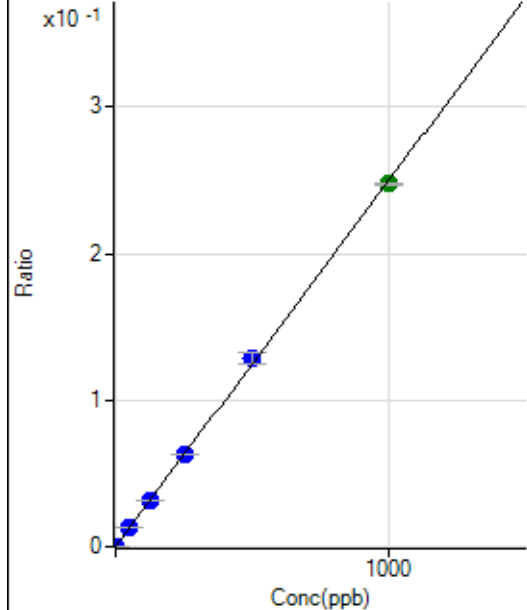
$$DL = 0.008903$$

$$BEC = 0.03206$$

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	5.4
2	☐	1.000	0.881	2534.69	0.0002	P	1.7
3	☐	50.000	50.077	135719.31	0.0125	P	0.6
4	☐	125.000	125.189	329957.67	0.0313	P	0.6
5	☐	250.000	251.981	647982.10	0.0629	P	1.2
6	☐	500.000	515.217	1306121.16	0.1287	P	5.6
7	☐	1000.000	991.869	2548024.86	0.2477	A	0.5
8	☐			1884.58	0.0002	P	4.8

$$y = 2.4971E-004 * x + 5.2948E-006$$

$$R = 0.9998$$

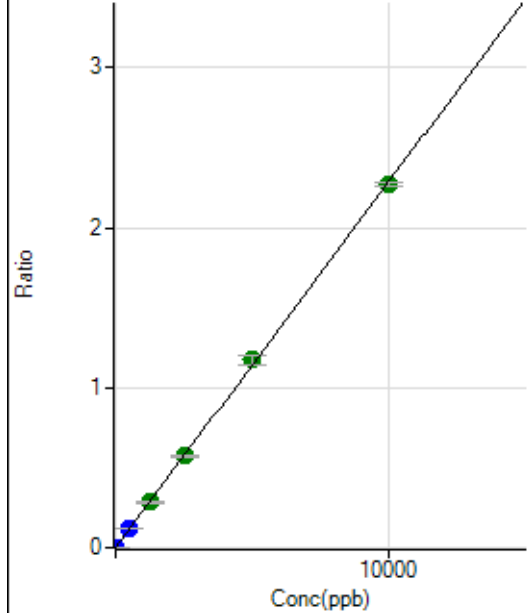
$$DL = 0.003403$$

$$BEC = 0.0212$$

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	174.45	0.0000	P	19.7
2	☐	5.000	5.088	13251.65	0.0012	P	2.5
3	☐	500.000	505.134	1252369.06	0.1154	P	0.8
4	☐	1250.000	1250.462	3015352.94	0.2858	A	2.5
5	☐	2500.000	2513.049	5913211.16	0.5743	A	1.3
6	☐	5000.000	5141.672	11927358.85	1.1749	A	5.6
7	☐	10000.000	9925.587	23332290.21	2.2681	A	0.9
8	☐			11714.78	0.0012	P	6.6

$$y = 2.2850E-004 * x + 1.5383E-005$$

$$R = 0.9998$$

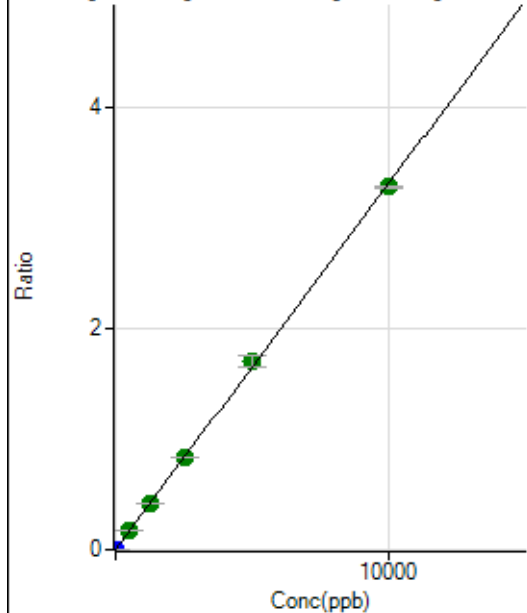
$$DL = 0.03984$$

$$BEC = 0.06732$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	23.6
2	☐	5.000	4.355	16269.13	0.0014	P	0.8
3	☐	500.000	502.466	1804617.46	0.1663	A	0.8
4	☐	1250.000	1253.663	4379670.18	0.4150	A	1.4
5	☐	2500.000	2526.345	8611759.32	0.8363	A	1.2
6	☐	5000.000	5151.069	17310402.24	1.7052	A	5.7
7	☐	10000.000	9917.299	33773810.89	3.2831	A	0.4
8	☐			15256.99	0.0016	P	10.9

$$y = 3.3104E-004 * x + 4.4170E-006$$

$$R = 0.9998$$

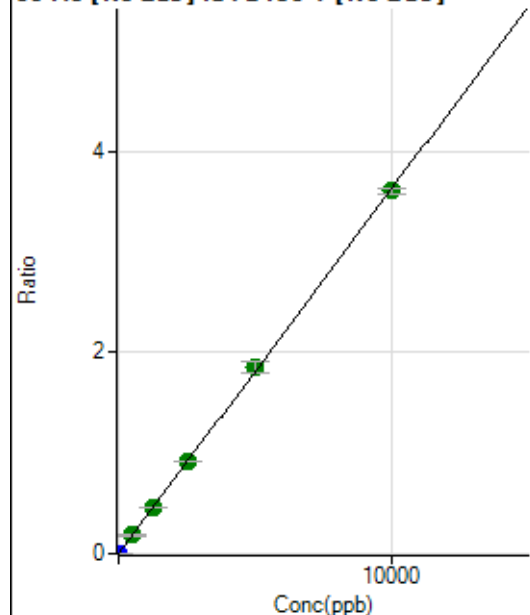
$$DL = 0.009443$$

$$BEC = 0.01334$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0000	P	27.8
2	☐	5.000	4.417	18094.63	0.0016	P	2.1
3	☐	500.000	503.599	1979513.46	0.1825	A	2.1
4	☐	1250.000	1248.935	4775749.68	0.4525	A	0.2
5	☐	2500.000	2526.365	9426242.91	0.9154	A	0.6
6	☐	5000.000	5093.894	18734308.61	1.8457	A	6.0
7	☐	10000.000	9946.415	37075865.84	3.6039	A	1.3
8	☐			22007.85	0.0023	P	9.6

$$y = 3.6233\text{E-}004 * x + 8.2259\text{E-}006$$

$$R = 0.9999$$

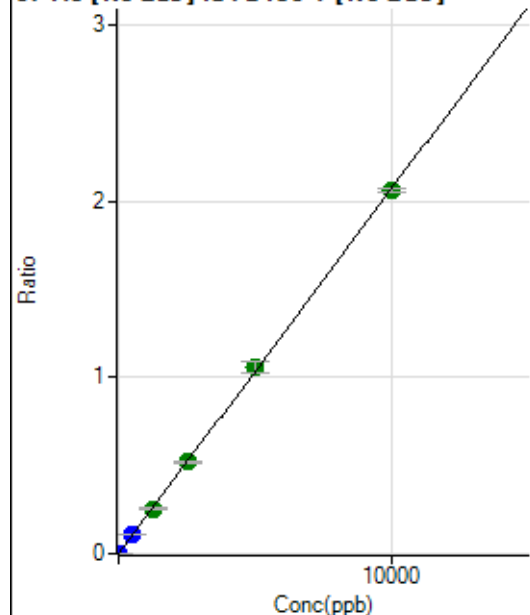
$$DL = 0.01894$$

$$BEC = 0.0227$$

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	36.67	0.0000	P	40.1
2	☐	5.000	4.372	10210.33	0.0009	P	4.5
3	☐	500.000	506.940	1137650.74	0.1049	P	1.0
4	☐	1250.000	1237.532	2701519.06	0.2560	A	2.0
5	☐	2500.000	2506.998	5340043.43	0.5186	A	0.9
6	☐	5000.000	5114.085	10740253.31	1.0579	A	5.3
7	☐	10000.000	9942.420	21157622.74	2.0566	A	1.0
8	☐			9164.07	0.0010	P	6.5

$$y = 2.0685\text{E-}004 * x + 3.2416\text{E-}006$$

$$R = 0.9999$$

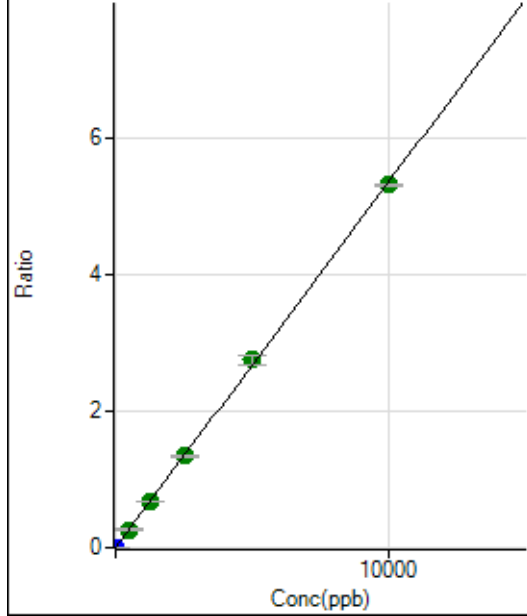
$$DL = 0.01886$$

$$BEC = 0.01567$$

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	92.22	0.0000	P	9.6
2	☐	5.000	4.351	26309.28	0.0023	P	1.4
3	☐	500.000	499.153	2900496.87	0.2674	A	1.2
4	☐	1250.000	1242.034	7020670.45	0.6653	A	0.7
5	☐	2500.000	2513.064	13860917.43	1.3461	A	1.3
6	☐	5000.000	5139.653	27948055.42	2.7529	A	5.5
7	☐	10000.000	9927.946	54705843.07	5.3177	A	0.3
8	☐			23494.73	0.0025	P	11.1

$$y = 5.3562\text{E-}004 * x + 8.1412\text{E-}006$$

$$R = 0.9999$$

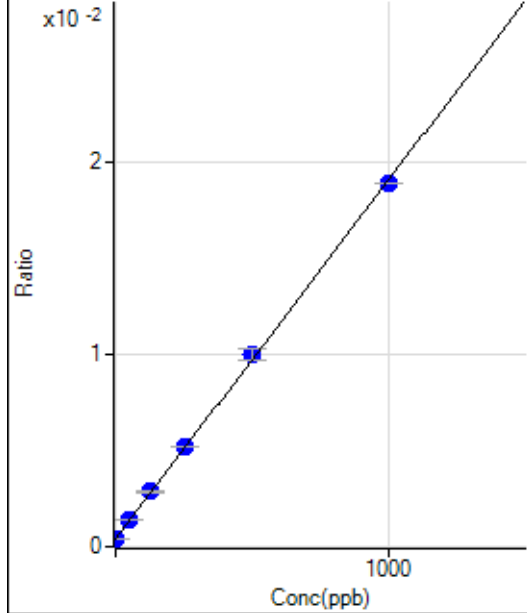
$$DL = 0.004391$$

$$BEC = 0.0152$$

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	4017.26	0.0004	P	1.4
2	☐	1.000	1.012	4161.75	0.0004	P	4.0
3	☐	50.000	53.060	13716.57	0.0014	P	2.6
4	☐	125.000	132.877	27922.42	0.0029	P	3.3
5	☐	250.000	257.465	50642.22	0.0052	P	1.2
6	☐	500.000	515.197	95738.17	0.0100	P	6.2
7	☐	1000.000	989.398	181707.64	0.0189	P	0.1
8	☐			3597.15	0.0004	P	0.8

$$y = 1.8698\text{E-}005 * x + 3.9771\text{E-}004$$

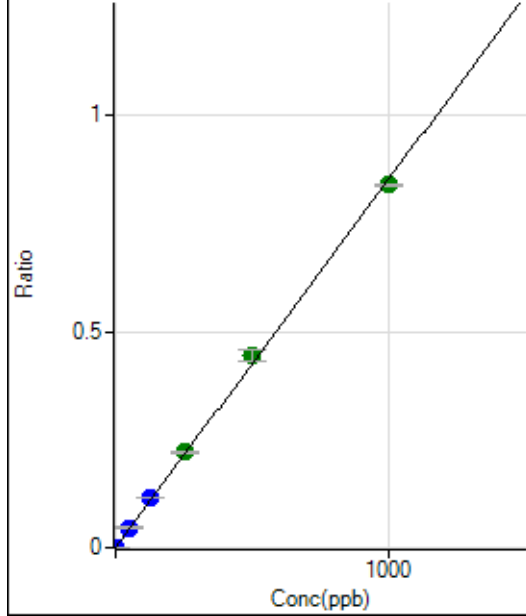
$$R = 0.9998$$

$$DL = 0.8859$$

$$BEC = 21.27$$

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	108.89	0.0000	P	15.7
2	☐	1.000	0.953	8210.16	0.0008	P	1.5
3	☐	50.000	54.310	456228.68	0.0462	P	2.1
4	☐	125.000	134.327	1107896.43	0.1143	P	1.0
5	☐	250.000	260.544	2154949.43	0.2218	A	1.6
6	☐	500.000	521.102	4233567.47	0.4436	A	6.1
7	☐	1000.000	985.431	8065132.17	0.8388	A	0.4
8	☐			4934.23	0.0006	P	7.9

$$y = 8.5117\text{E-}004 * x + 1.0787\text{E-}005$$

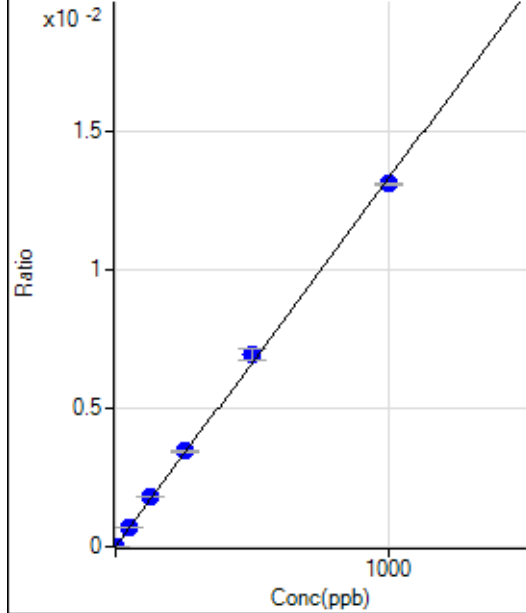
$$R = 0.9996$$

$$DL = 0.005975$$

$$BEC = 0.01267$$

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	12.22	0.0000	P	15.1
2	☐	1.000	0.889	130.00	0.0000	P	9.9
3	☐	50.000	53.683	7051.77	0.0007	P	1.4
4	☐	125.000	134.209	17292.61	0.0018	P	1.1
5	☐	250.000	258.580	33400.63	0.0034	P	2.3
6	☐	500.000	521.622	66179.96	0.0069	P	5.5
7	☐	1000.000	985.709	125950.98	0.0131	P	0.4
8	☐			180.00	0.0000	P	2.5

$$y = 1.3288\text{E-}005 * x + 1.2088\text{E-}006$$

$$R = 0.9996$$

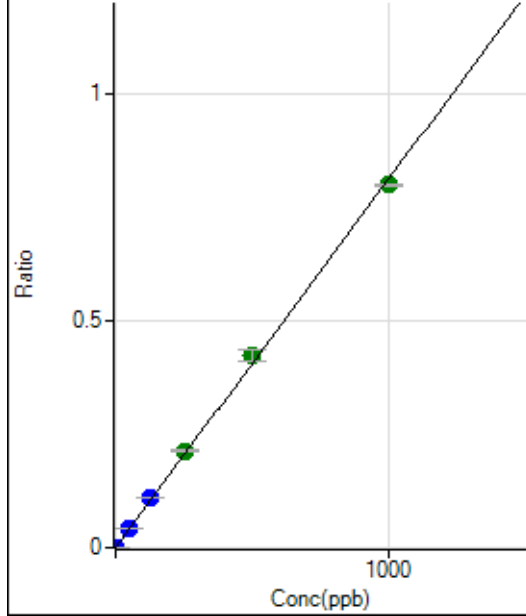
$$DL = 0.04111$$

$$BEC = 0.09097$$

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	45.55	0.0000	P	16.0
2	☐	1.000	0.969	7891.10	0.0008	P	1.8
3	☐	50.000	54.319	434629.98	0.0440	P	1.7
4	☐	125.000	133.811	1051264.68	0.1085	P	1.1
5	☐	250.000	261.897	2063339.19	0.2124	A	2.2
6	☐	500.000	521.940	4039955.84	0.4232	A	5.6
7	☐	1000.000	984.738	7677251.07	0.7985	A	0.4
8	☐			4836.42	0.0006	P	10.0

$$y = 8.1083\text{E-}004 * x + 4.5127\text{E-}006$$

$$R = 0.9995$$

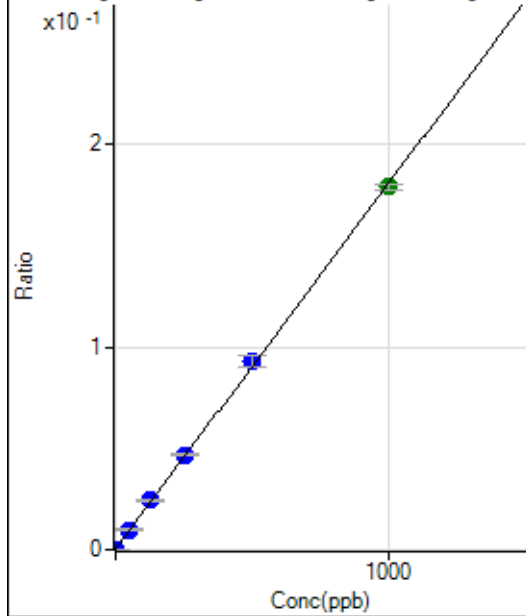
$$DL = 0.002665$$

$$BEC = 0.005566$$

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	2819.09	0.0003	P	1.3
2	☐	1.000	1.030	4644.58	0.0005	P	3.1
3	☐	50.000	53.617	98226.22	0.0100	P	0.7
4	☐	125.000	132.707	234707.90	0.0242	P	1.8
5	☐	250.000	257.704	454547.38	0.0468	P	2.0
6	☐	500.000	512.158	884773.26	0.0927	P	6.1
7	☐	1000.000	990.851	1721689.38	0.1791	A	1.3
8	☐			3652.07	0.0004	P	2.5

$$y = 1.8045\text{E-}004 * x + 2.7909\text{E-}004$$

$$R = 0.9998$$

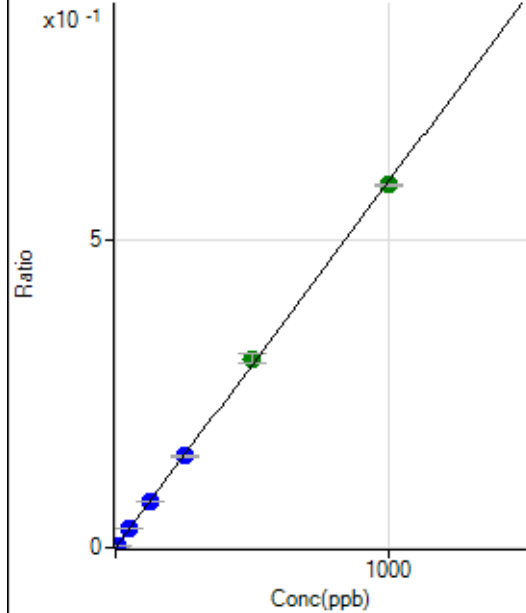
$$DL = 0.05807$$

$$BEC = 1.547$$

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	962.27	0.0001	P	7.0
2	☐	5.000	4.670	28758.69	0.0029	P	2.2
3	☐	50.000	51.168	301899.58	0.0306	P	1.4
4	☐	125.000	127.277	735995.37	0.0760	P	0.9
5	☐	250.000	250.480	1451711.63	0.1494	P	1.7
6	☐	500.000	516.154	2938411.34	0.3078	A	5.1
7	☐	1000.000	991.461	5683169.22	0.5911	A	0.7
8	☐			6856.14	0.0008	P	4.8

$$y = 5.9608\text{E-}004 * x + 9.5293\text{E-}005$$

$$R = 0.9998$$

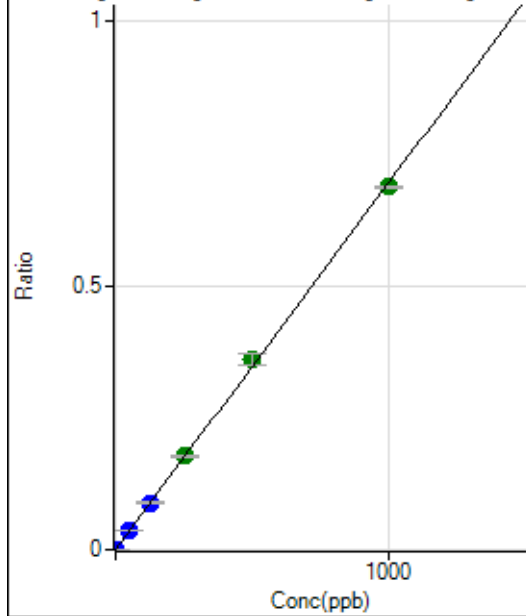
$$DL = 0.03342$$

$$BEC = 0.1599$$

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	47.78	0.0000	P	35.2
2	☐	2.000	1.810	12607.83	0.0013	P	1.2
3	☐	50.000	50.890	348846.64	0.0354	P	0.8
4	☐	125.000	127.671	859209.47	0.0887	P	1.3
5	☐	250.000	254.580	1718223.08	0.1768	A	1.1
6	☐	500.000	518.082	3434984.98	0.3599	A	5.8
7	☐	1000.000	989.436	6608060.39	0.6872	A	0.4
8	☐			10034.71	0.0012	P	0.7

$$y = 6.9457\text{E-}004 * x + 4.7379\text{E-}006$$

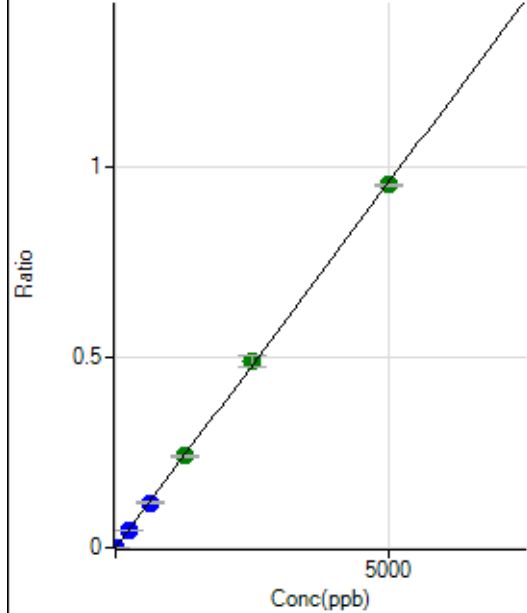
$$R = 0.9997$$

$$DL = 0.007211$$

$$BEC = 0.006821$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	9.2
2	☐	10.000	9.029	17301.72	0.0017	P	2.3
3	☐	250.000	247.121	467227.92	0.0473	P	1.2
4	☐	625.000	618.113	1147453.50	0.1184	P	0.9
5	☐	1250.000	1258.050	2341945.87	0.2410	A	2.2
6	☐	2500.000	2558.342	4679120.83	0.4902	A	5.6
7	☐	5000.000	4969.823	9155898.33	0.9522	A	0.7
8	☐			7476.49	0.0009	P	4.8

$$y = 1.9159\text{E-}004 * x + 2.2005\text{E-}006$$

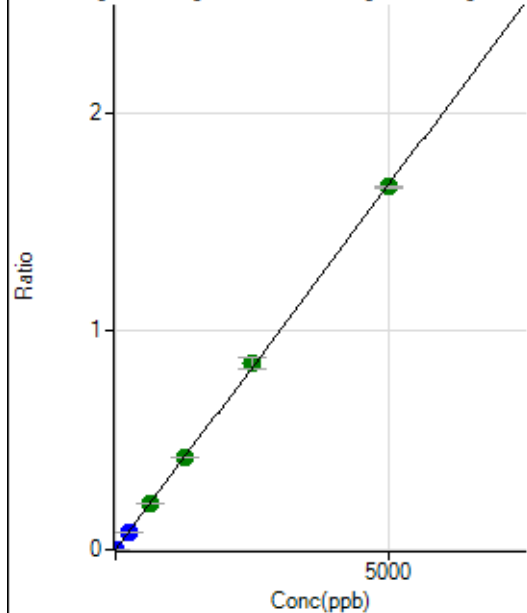
$$R = 0.9999$$

$$DL = 0.003186$$

$$BEC = 0.01149$$

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	34.45	0.0000	P	31.0
2	☐	10.000	9.165	30618.53	0.0031	P	1.7
3	☐	250.000	246.078	811212.21	0.0822	P	1.4
4	☐	625.000	636.451	2060039.83	0.2126	A	1.5
5	☐	1250.000	1260.914	4093064.59	0.4212	A	1.3
6	☐	2500.000	2545.820	8117673.98	0.8505	A	6.1
7	☐	5000.000	4973.128	15974499.07	1.6614	A	0.7
8	☐			13308.56	0.0015	P	4.3

$$y = 3.3407\text{E-}004 * x + 3.4100\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.009502$$

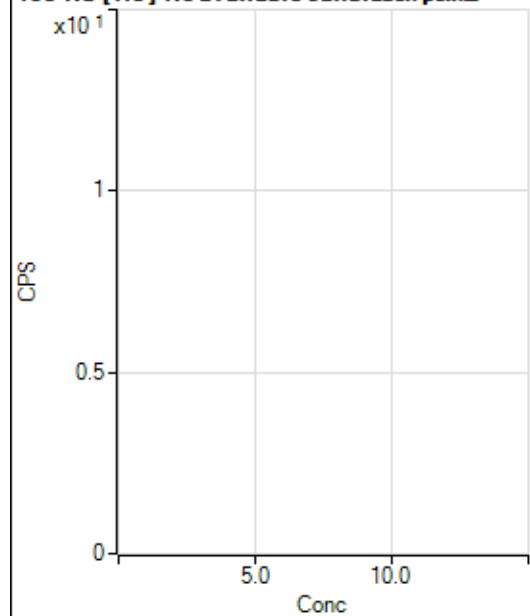
$$BEC = 0.01021$$

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	66.7
2	☐			6.67		P	50.0
3	☐			51.11		P	10.0
4	☐			102.22		P	19.7
5	☐			238.89		P	13.3
6	☐			453.34		P	7.6
7	☐			870.04		P	9.3
8	☐			297.78		P	11.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			2.22		P	173.
3	☐			17.78		P	43.3
4	☐			27.78		P	59.2
5	☐			51.11		P	13.6
6	☐			92.22		P	4.2
7	☐			205.56		P	9.8
8	☐			151.11		P	6.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	45.8
2	☐			4.44		P	43.4
3	☐			32.22		P	43.1
4	☐			85.56		P	25.4
5	☐			131.11		P	3.9
6	☐			283.34		P	20.6
7	☐			534.46		P	10.3
8	☐			1525.65		P	5.0

156 Dy [He] No available calibration points

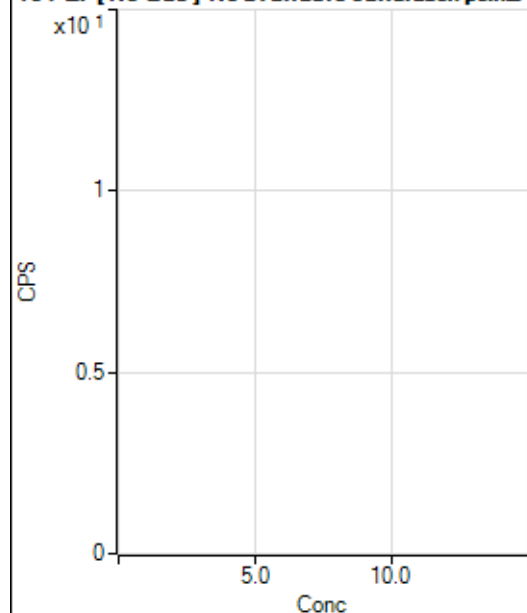
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			12.22		P	68.7
3	☐			47.78		P	10.7
4	☐			97.78		P	19.7
5	☐			184.45		P	7.5
6	☐			306.67		P	6.1
7	☐			567.79		P	11.0
8	☐			987.83		P	5.3

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

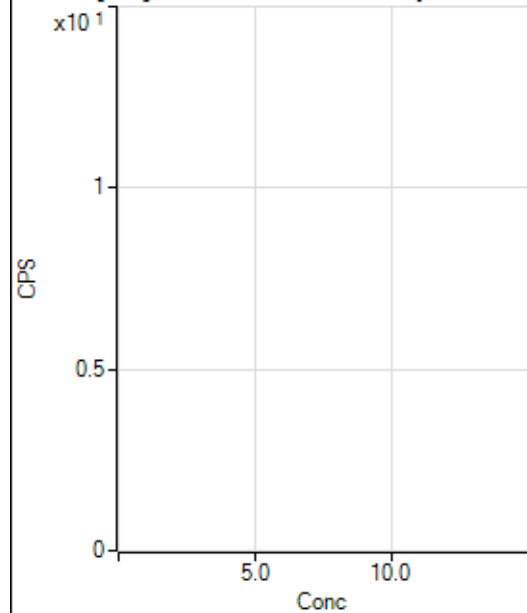
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45.56		P	4.2
2	☐			51.11		P	22.9
3	☐			67.78		P	19.9
4	☐			90.00		P	38.7
5	☐			145.56		P	20.5
6	☐			287.79		P	9.3
7	☐			444.46		P	12.9
8	☐			1637.89		P	6.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			283.34		P	11.2
2	☐			320.01		P	2.8
3	☐			272.23		P	2.5
4	☐			298.89		P	15.2
5	☐			337.79		P	9.0
6	☐			440.01		P	8.5
7	☐			610.02		P	5.5
8	☐			1343.42		P	1.1

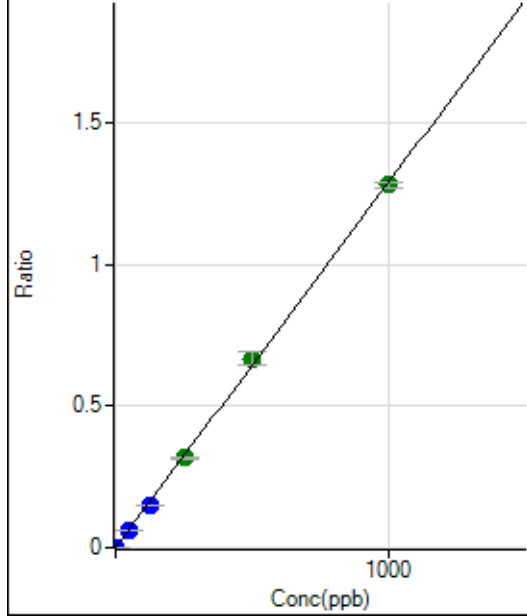
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108.89		P	7.1
2	☐			93.33		P	7.1
3	☐			113.33		P	20.6
4	☐			113.34		P	23.3
5	☐			152.22		P	7.0
6	☐			204.45		P	11.8
7	☐			256.67		P	8.1
8	☐			248.89		P	13.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57.78		P	16.6
2	☐			43.33		P	7.7
3	☐			48.89		P	27.5
4	☐			60.00		P	14.7
5	☐			54.44		P	33.7
6	☐			94.44		P	17.4
7	☐			148.89		P	9.0
8	☐			171.12		P	7.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	237.78	0.0000	P	1.6
2	☐	1.000	0.826	6676.14	0.0011	P	1.6
3	☐	50.000	46.305	352419.01	0.0598	P	0.9
4	☐	125.000	116.442	893019.47	0.1502	P	1.5
5	☐	250.000	245.687	1883842.70	0.3170	A	2.7
6	☐	500.000	517.923	3791389.35	0.6682	A	7.4
7	☐	1000.000	993.371	7232348.43	1.2815	A	1.4
8	☐			4152.91	0.0009	P	9.1

$$y = 0.0013 * x + 3.9214E-005$$

$$R = 0.9997$$

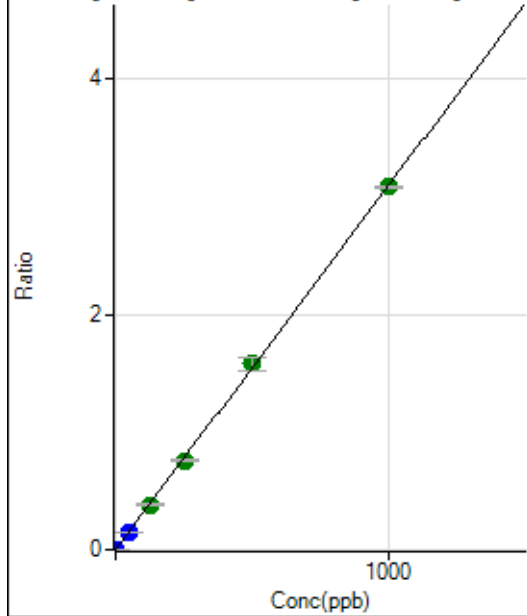
$$DL = 0.001425$$

$$BEC = 0.0304$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	512.24	0.0001	P	8.1
2	☐	1.000	0.822	15870.44	0.0026	P	1.8
3	☐	50.000	45.991	839400.74	0.1424	P	0.2
4	☐	125.000	123.291	2267428.96	0.3815	A	1.8
5	☐	250.000	245.402	4512624.27	0.7593	A	1.7
6	☐	500.000	510.369	8961377.71	1.5790	A	6.8
7	☐	1000.000	996.379	17397979.33	3.0825	A	0.7
8	☐			9910.36	0.0021	P	8.7

$$y = 0.0031 * x + 8.4511E-005$$

$$R = 0.9999$$

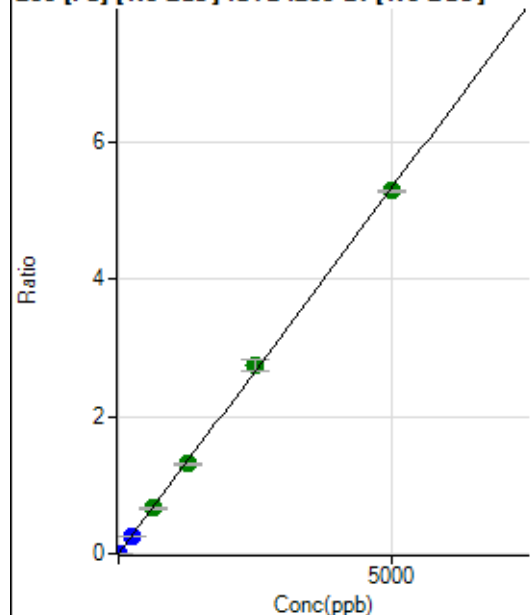
$$DL = 0.006642$$

$$BEC = 0.02732$$

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	450.01	0.0001	P	10.9
2	☐	1.000	0.803	5613.45	0.0009	P	4.1
3	☐	250.000	232.650	1459584.93	0.2475	P	0.2
4	☐	625.000	620.477	3923197.86	0.6601	A	1.7
5	☐	1250.000	1224.670	7742709.75	1.3028	A	2.1
6	☐	2500.000	2586.616	15618537.82	2.7515	A	6.3
7	☐	5000.000	4964.458	29805295.11	5.2808	A	0.8
8	☐			22128.16	0.0047	P	7.7

$$y = 0.0011 * x + 7.4247E-005$$

R = 0.9998

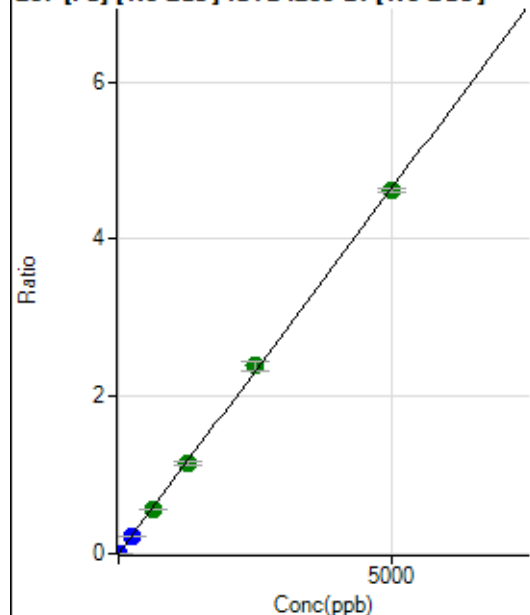
DL = 0.02288

BEC = 0.0698

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	400.01	0.0001	P	12.7
2	☐	1.000	0.804	4906.50	0.0008	P	2.2
3	☐	250.000	231.248	1266152.85	0.2147	P	0.8
4	☐	625.000	614.029	3388484.57	0.5701	A	1.4
5	☐	1250.000	1234.650	6811928.16	1.1463	A	2.8
6	☐	2500.000	2577.574	13589680.63	2.3930	A	5.0
7	☐	5000.000	4967.359	26027148.22	4.6115	A	1.0
8	☐			18940.02	0.0041	P	6.6

$$y = 9.2835E-004 * x + 6.5917E-005$$

R = 0.9998

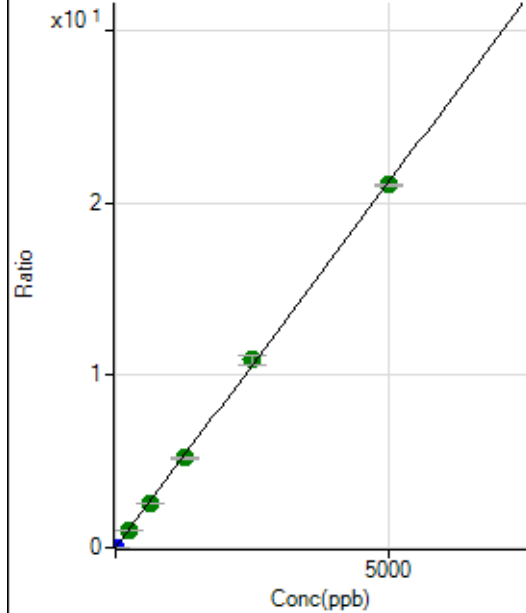
DL = 0.02706

BEC = 0.071

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	2311.24	0.0004	P	4.1
2	☐	1.000	0.796	22666.59	0.0038	P	3.5
3	☐	250.000	239.279	5977674.57	1.0138	A	0.3
4	☐	625.000	613.998	15459262.65	2.6008	A	0.8
5	☐	1250.000	1231.448	31001069.47	5.2159	A	1.8
6	☐	2500.000	2578.376	62016586.58	10.9206	A	5.1
7	☐	5000.000	4967.362	118745780.7	21.0386	A	0.8
8	☐			86889.78	0.0186	P	6.1

$$y = 0.0042 * x + 3.8125E-004$$

$$R = 0.9998$$

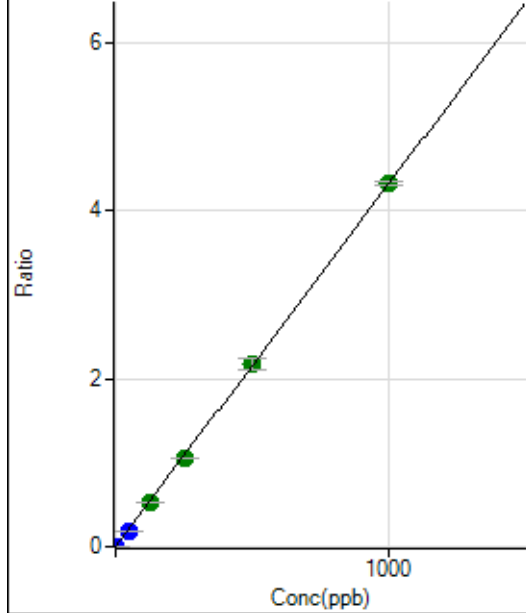
$$DL = 0.01099$$

$$BEC = 0.09002$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17.78	0.0000	P	9.8
2	☐	1.000	0.768	20010.68	0.0033	P	2.1
3	☐	50.000	43.898	1115593.91	0.1892	P	0.6
4	☐	125.000	120.872	3096500.61	0.5210	A	1.5
5	☐	250.000	243.281	6232303.17	1.0486	A	1.5
6	☐	500.000	503.085	12305856.62	2.1683	A	7.0
7	☐	1000.000	1000.958	24349298.25	4.3142	A	1.2
8	☐			10793.38	0.0023	P	5.7

$$y = 0.0043 * x + 2.9305E-006$$

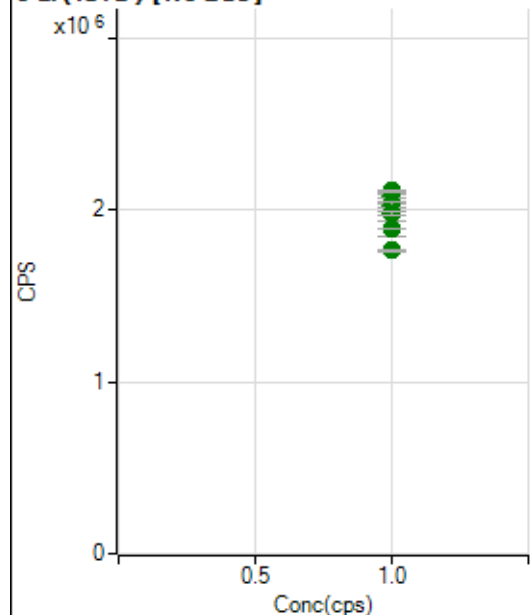
$$R = 1.0000$$

$$DL = 0.0002004$$

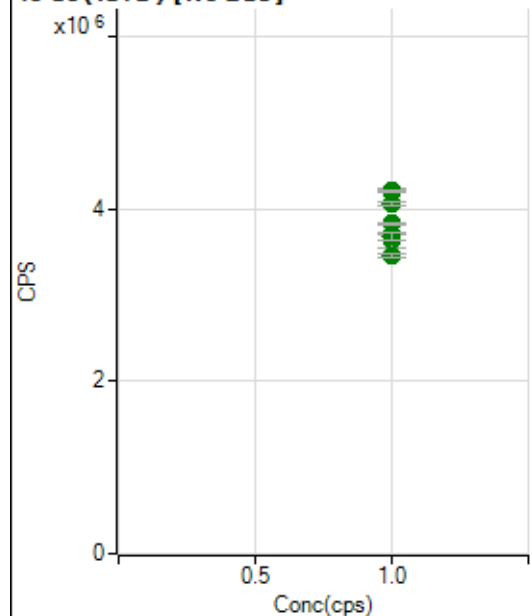
$$BEC = 0.0006799$$

Weight: <None>

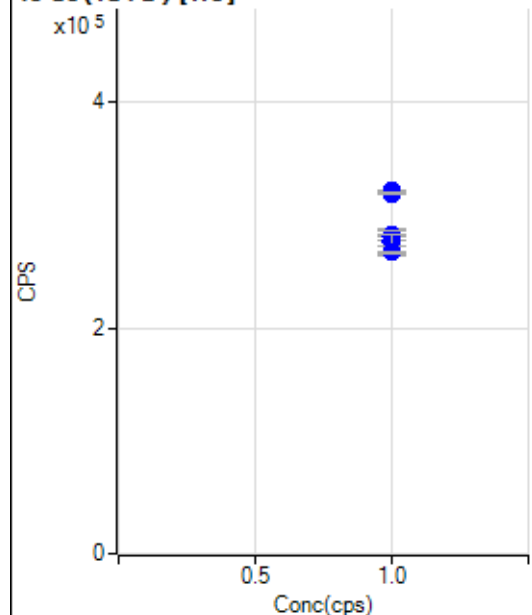
Min Conc: 0

6 Li (ISTD) [No Gas]

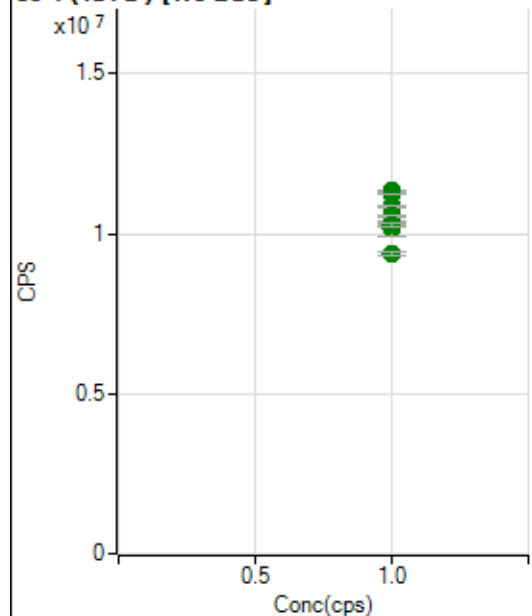
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2079594.52		A	1.1
2	☐	1.000		2109432.99		A	0.9
3	☐	1.000		2040309.83		A	0.1
4	☐	1.000		2029181.59		A	1.6
5	☐	1.000		1981282.85		A	1.2
6	☐	1.000		1891428.12		A	4.8
7	☐	1.000		1889038.88		A	0.3
8	☐	1.000		1762635.10		A	0.5

45 Sc (ISTD) [No Gas]

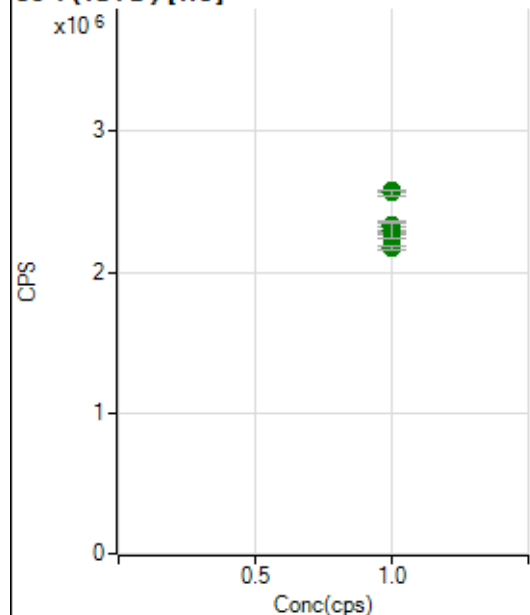
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4206507.58		A	0.9
2	☐	1.000		4201939.04		A	0.5
3	☐	1.000		4057692.93		A	1.4
4	☐	1.000		3833543.69		A	0.6
5	☐	1.000		3710659.53		A	1.0
6	☐	1.000		3627070.75		A	4.1
7	☐	1.000		3681267.51		A	2.0
8	☐	1.000		3461500.02		A	1.0

45 Sc (ISTD) [He]

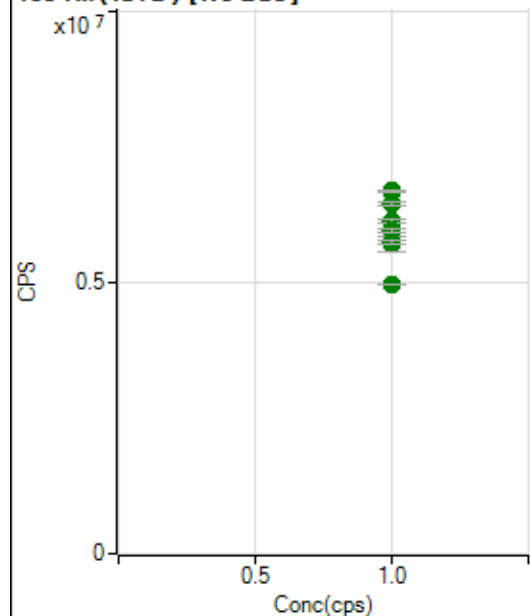
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		321814.63		P	0.3
2	☐	1.000		319393.19		P	0.6
3	☐	1.000		276598.68		P	8.3
4	☐	1.000		282630.60		P	0.9
5	☐	1.000		280619.98		P	2.0
6	☐	1.000		282802.23		P	3.2
7	☐	1.000		277620.36		P	3.6
8	☐	1.000		266963.08		P	0.9

89 Y (ISTD) [No Gas]

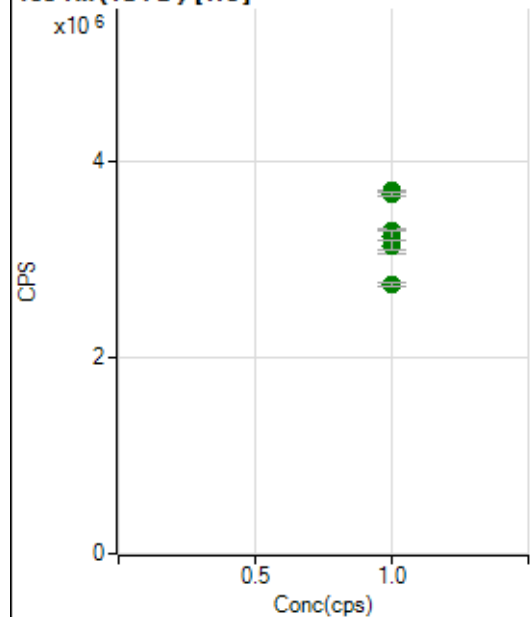
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11331406.08		A	0.8
2	☐	1.000		11249651.36		A	0.2
3	☐	1.000		10849154.84		A	0.9
4	☐	1.000		10553398.25		A	0.6
5	☐	1.000		10297875.40		A	1.0
6	☐	1.000		10168953.67		A	4.6
7	☐	1.000		10287501.93		A	0.9
8	☐	1.000		9393809.86		A	1.4

89 Y(ISTD) [He]

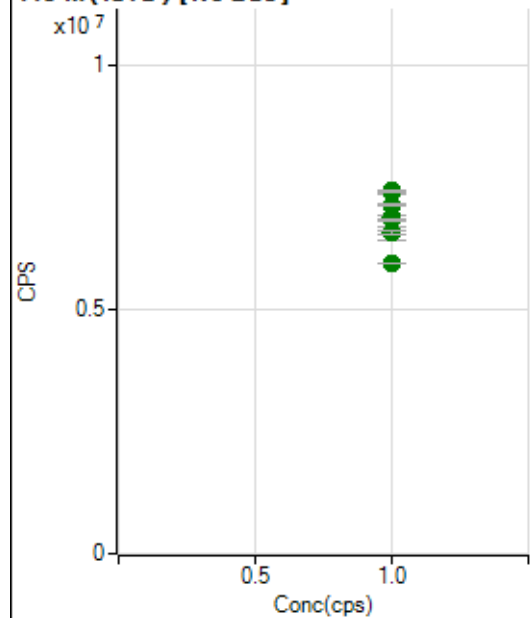
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2576232.20		A	0.4
2	☐	1.000		2562853.69		A	1.4
3	☐	1.000		2242211.31		A	7.1
4	☐	1.000		2276346.04		A	1.4
5	☐	1.000		2341325.82		A	2.1
6	☐	1.000		2321997.09		A	3.1
7	☐	1.000		2297261.49		A	4.5
8	☐	1.000		2172877.24		A	1.5

103 Rh(ISTD) [No Gas]

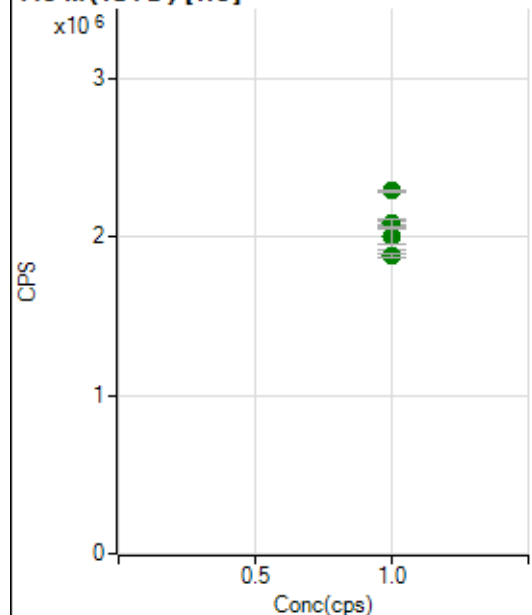
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6693797.54		A	0.4
2	☐	1.000		6676112.19		A	0.6
3	☐	1.000		6449863.65		A	1.2
4	☐	1.000		6137392.97		A	1.1
5	☐	1.000		5944280.95		A	1.2
6	☐	1.000		5704663.11		A	4.7
7	☐	1.000		5759678.45		A	1.3
8	☐	1.000		4965667.70		A	0.4

103 Rh (ISTD) [He]

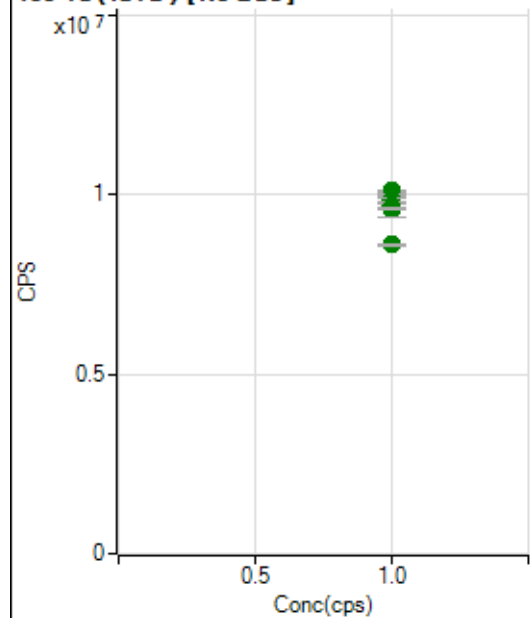
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3695000.36		A	0.8
2	☐	1.000		3658781.61		A	0.8
3	☐	1.000		3187774.39		A	8.0
4	☐	1.000		3297611.96		A	0.5
5	☐	1.000		3299471.72		A	1.0
6	☐	1.000		3237303.94		A	2.9
7	☐	1.000		3139040.20		A	3.2
8	☐	1.000		2741195.69		A	1.7

115 In (ISTD) [No Gas]

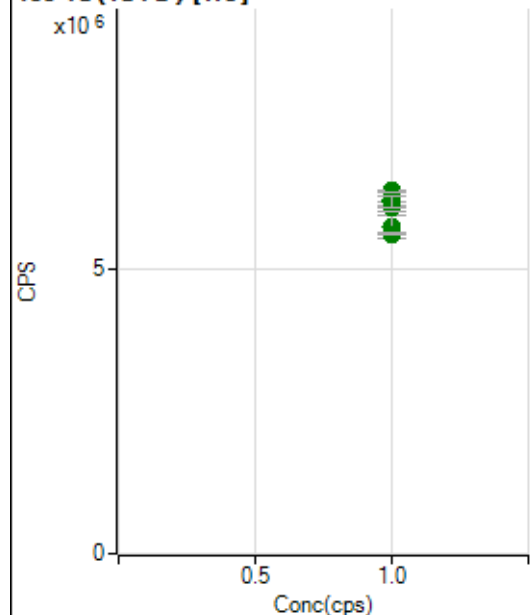
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7389909.77		A	0.8
2	☐	1.000		7414245.18		A	0.4
3	☐	1.000		7129262.58		A	0.4
4	☐	1.000		6868076.42		A	0.9
5	☐	1.000		6832317.88		A	0.5
6	☐	1.000		6543988.87		A	4.6
7	☐	1.000		6575756.22		A	1.1
8	☐	1.000		5936641.46		A	0.5

115 In (ISTD) [He]

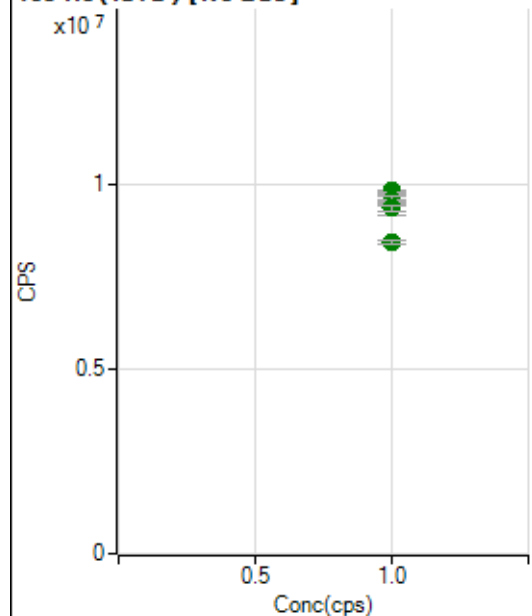
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2291682.38		A	0.5
2	☐	1.000		2293600.77		A	0.6
3	☐	1.000		2010173.26		A	8.9
4	☐	1.000		2090817.06		A	0.8
5	☐	1.000		2089411.39		A	2.6
6	☐	1.000		2091656.40		A	2.0
7	☐	1.000		2004829.82		A	5.0
8	☐	1.000		1884331.36		A	1.1

159 Tb (ISTD) [No Gas]

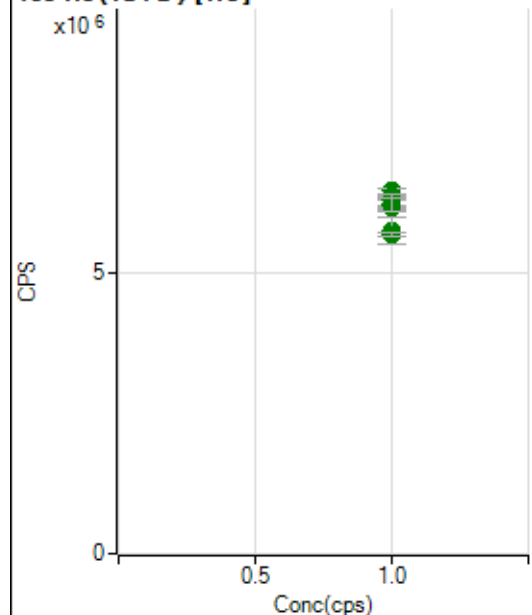
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10101681.72		A	0.8
2	☐	1.000		9989964.71		A	0.7
3	☐	1.000		9868358.60		A	1.0
4	☐	1.000		9689551.52		A	1.0
5	☐	1.000		9717666.94		A	1.2
6	☐	1.000		9561811.59		A	4.4
7	☐	1.000		9615238.40		A	1.0
8	☐	1.000		8596605.01		A	1.0

159 Tb (ISTD) [He]

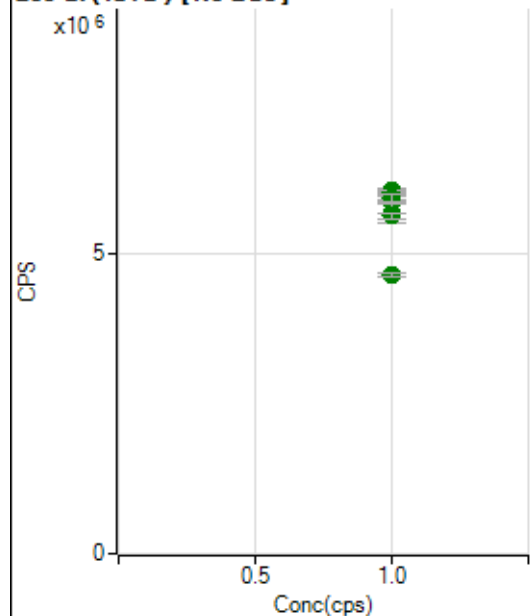
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6372024.91		A	0.3
2	☐	1.000		6358405.32		A	0.6
3	☐	1.000		5736323.39		A	7.1
4	☐	1.000		6066454.35		A	1.7
5	☐	1.000		6229463.66		A	1.9
6	☐	1.000		6265321.43		A	2.2
7	☐	1.000		6183816.85		A	3.1
8	☐	1.000		5620387.83		A	0.4

165 Ho (ISTD) [No Gas]

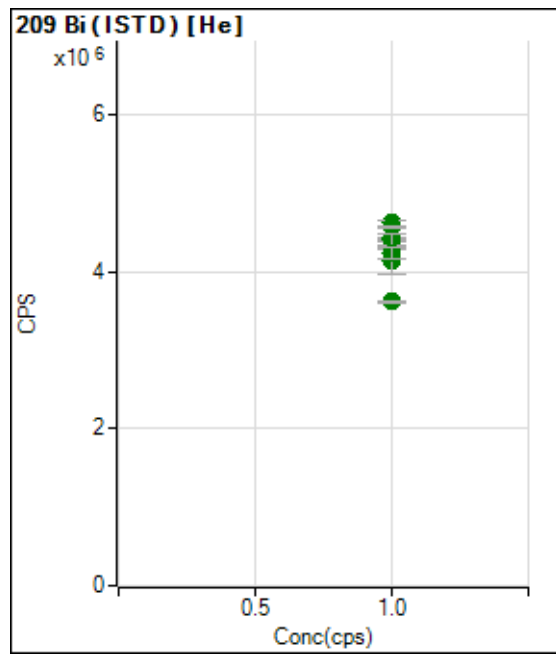
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9821886.45		A	0.4
2	☐	1.000		9761838.05		A	0.4
3	☐	1.000		9544862.98		A	0.8
4	☐	1.000		9514336.80		A	0.7
5	☐	1.000		9603551.66		A	1.3
6	☐	1.000		9370169.72		A	4.7
7	☐	1.000		9360498.47		A	1.7
8	☐	1.000		8443936.61		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6455189.35		A	1.5
2	☐	1.000		6357052.96		A	0.6
3	☐	1.000		5740066.17		A	8.2
4	☐	1.000		6164535.74		A	0.6
5	☐	1.000		6211773.66		A	2.5
6	☐	1.000		6283882.82		A	3.4
7	☐	1.000		6199217.69		A	4.0
8	☐	1.000		5689797.14		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6063562.20		A	1.0
2	☐	1.000		6044512.34		A	1.2
3	☐	1.000		5896240.68		A	0.7
4	☐	1.000		5944260.88		A	1.1
5	☐	1.000		5944746.51		A	1.9
6	☐	1.000		5689188.94		A	5.4
7	☐	1.000		5644387.69		A	1.3
8	☐	1.000		4660313.16		A	1.4



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4623233.09		A	1.4
2	☐	1.000		4577557.74		A	0.7
3	☐	1.000		4136960.74		A	7.8
4	☐	1.000		4425435.84		A	0.4
5	☐	1.000		4447267.64		A	2.2
6	☐	1.000		4407294.73		A	3.5
7	☐	1.000		4241034.66		A	3.7
8	☐	1.000		3615731.16		A	1.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7122023 MS.b

Acq. Date-Time 2023-12-20 09:05:13

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		14348	143478.30			0.985	5.000
24		69030	690300.24			1.579	5.000
25		8864	88638.24			1.556	5.000
26		10265	102650.71			1.307	5.000
59		81700	816997.37			1.040	5.000
113		12202	122016.51			1.165	5.000
115		143708	1437079.73			1.751	5.000
206		34510	345101.49			1.477	5.000
207		31679	316790.61			1.324	5.000
208		74084	740836.79			1.224	5.000
220		0	3.30			63.924	

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

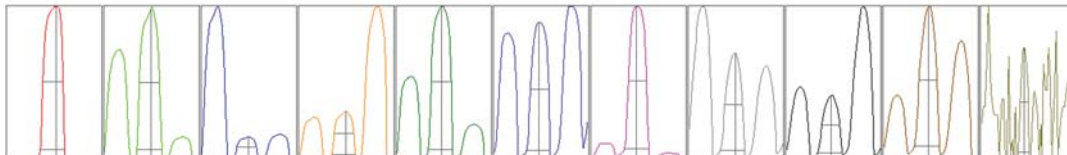
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14492	14122	14429	14374	14322
24	68940	67343	68877	70077	69913
25	8905	8623	8887	8941	8964
26	10263	10035	10333	10329	10366
59	82304	80222	82220	81936	81817
113	12302	11959	12280	12278	12190
115	146055	139782	144757	145228	142717
206	34848	33625	34828	34711	34540
207	31928	30936	31871	31889	31772
208	74817	72513	74542	74277	74270

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	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	23566.78	9.10	8.90 - 9.10	
24	115041.87	24.00	23.90 - 24.10	
25	15258.69	25.00	24.90 - 25.10	
26	17483.81	26.00	25.90 - 26.10	
59	134148.02	58.95	58.90 - 59.10	
113	21828.45	112.95	112.90 - 113.10	
115	260568.07	114.95	114.90 - 115.10	
206	63641.16	206.00	205.90 - 206.10	
207	56030.77	206.95	206.90 - 207.10	
208	135684.61	207.95	207.90 - 208.10	
220	0.65	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.767	0.900	
24	0.63	0.786	0.900	
25	0.61	0.734	0.900	
26	0.62	0.740	0.900	
59	0.63	0.778	0.900	
113	0.57	0.742	0.900	
115	0.56	0.777	0.900	
206	0.55	0.781	0.900	
207	0.56	0.777	0.900	
208	0.57	0.794	0.900	
220	0.24	0.339		

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	8.6 V	Deflect	15.4 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	132	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.16		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.9 mm
---------	---------	---------	--------

EM

Discriminator	4.6 mV	Analog HV	2303 V	Pulse HV	1369 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		25030	250302.81			0.369	
89		33945	339451.15			0.561	
205		37811	378111.96			0.307	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25127	25091	25070	24945	24919
89	34036	33903	34180	33943	33663
205	37954	37810	37869	37784	37640

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	9.3 V	Deflect	2.8 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 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	132	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.16		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.9 mm
---------	---------	---------	--------

EM

Discriminator	4.6 mV	Analog HV	2303 V	Pulse HV	1369 V
---------------	--------	-----------	--------	----------	--------