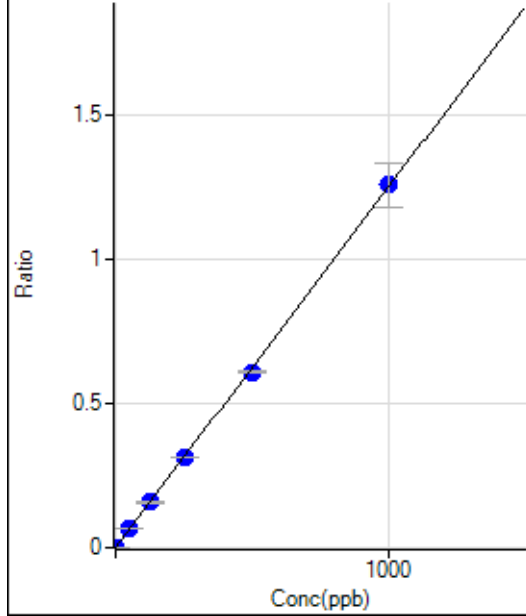


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7101524-MS5.b\
Analysis File: P7101524-MS5.batch.bin
DA Date-Time: 2024-10-16 12:51:02
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-10-15 18:55:16
2	005CALS.d	S02	2024-10-15 18:58:39
3	006CALS.d	S03	2024-10-15 19:02:03
4	007CALS.d	S04	2024-10-15 19:05:17
5	008CALS.d	S05	2024-10-15 19:08:23
6	009CALS.d	S06	2024-10-15 19:11:21
7	011CALS.d	S07	2024-10-15 19:17:04
8	012CALS.d	S08	2024-10-15 19:19:55

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17.78	0.0000	P	21.0
2	☐	1.000	1.010	752.25	0.0013	P	5.6
3	☐	50.000	51.168	38029.70	0.0639	P	0.9
4	☐	125.000	125.795	93954.80	0.1570	P	0.9
5	☐	250.000	250.400	184012.29	0.3125	P	1.4
6	☐	500.000	487.215	348114.42	0.6080	P	0.9
7	☐	1000.000	1006.134	667878.21	1.2555	P	12.1
8	☐			401.12	0.0007	P	8.4

$$y = 0.0012 * x + 3.0829E-005$$

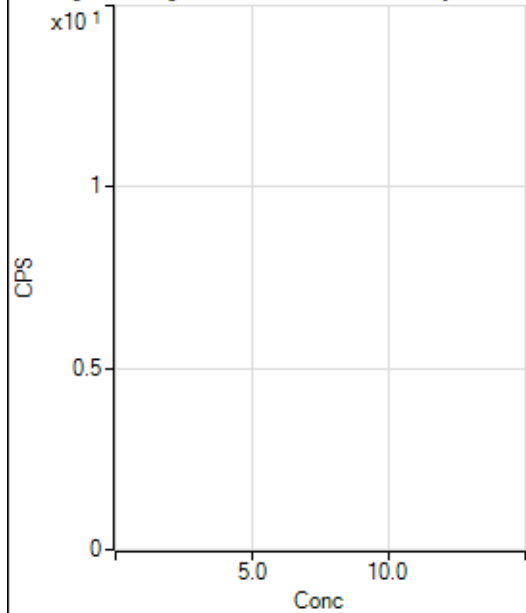
$$R = 0.9999$$

$$DL = 0.01557$$

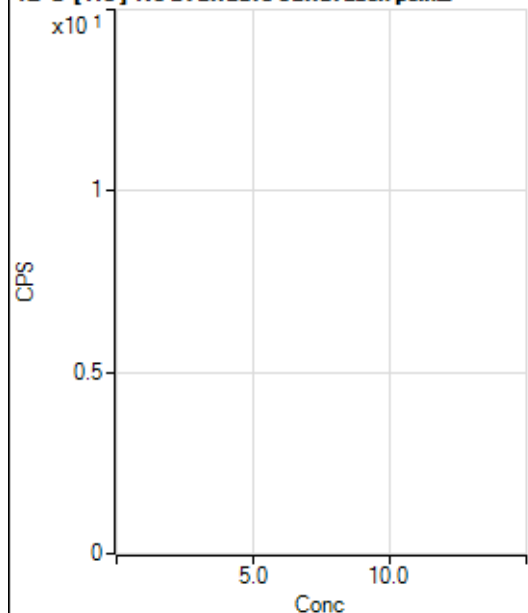
$$BEC = 0.02471$$

Weight: <None>

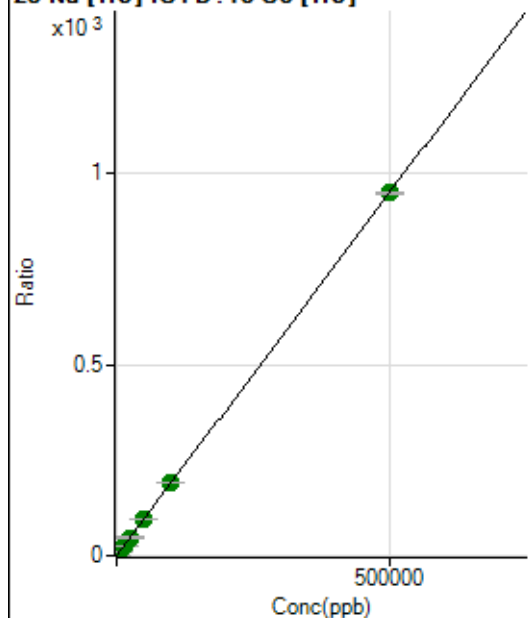
Min Conc: 0

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	3552.66	0.0275	P	3.1
2	☐	500.000	513.897	130610.09	1.0035	P	1.0
3	☐	5000.000	4950.340	1217342.92	9.4292	A	1.0
4	☐	12500.000	12483.910	3012573.29	23.7371	A	0.4
5	☐	25000.000	25092.928	5792265.12	47.6843	A	0.6
6	☐	50000.000	50305.421	11155983.72	95.5681	A	1.9
7	☐	100000.00	100761.14	22636179.38	191.3942	A	0.4
8	☐	500000.00	499813.46	108085585.0	949.2787	A	0.3

$$y = 0.0019 * x + 0.0275$$

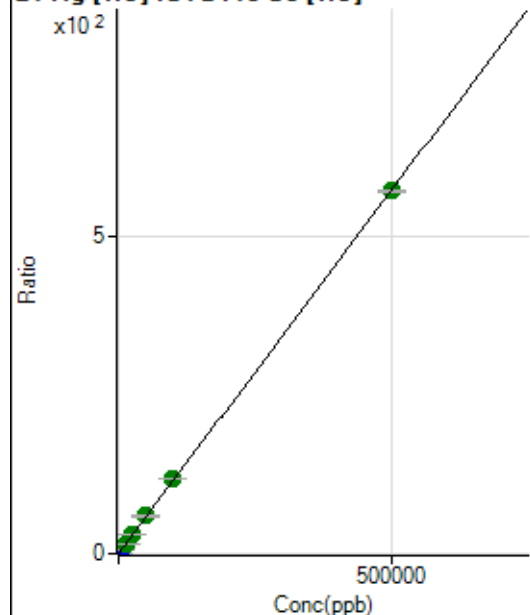
$$R = 1.0000$$

$$DL = 1.327$$

$$BEC = 14.47$$

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	1154.50	0.0089	P	2.1
2	☐	500.000	543.692	81968.83	0.6298	P	2.0
3	☐	5000.000	5359.172	791282.87	6.1292	P	0.5
4	☐	12500.000	12994.888	1884529.61	14.8493	A	0.9
5	☐	25000.000	25867.630	3589592.55	29.5501	A	0.5
6	☐	50000.000	51805.216	6907426.08	59.1712	A	1.8
7	☐	100000.00	102948.25	13905943.13	117.5773	A	0.7
8	☐	500000.00	499170.43	64908649.03	570.0685	A	0.8

$$y = 0.0011 * x + 0.0089$$

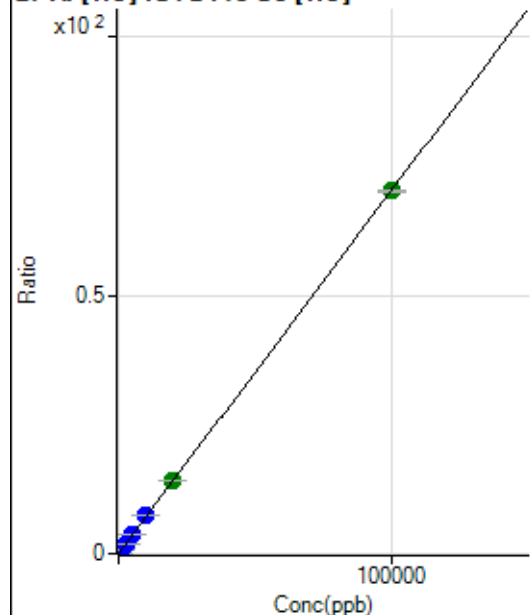
$$R = 1.0000$$

$$DL = 0.4922$$

$$BEC = 7.822$$

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	66.67	0.0005	P	13.1
2	☐	20.000	20.642	1955.70	0.0150	P	3.0
3	☐	1000.000	1057.495	96049.95	0.7440	P	1.4
4	☐	2500.000	2643.142	235910.52	1.8588	P	0.3
5	☐	5000.000	5281.274	451067.89	3.7136	P	1.1
6	☐	10000.000	10527.526	864136.65	7.4021	P	1.0
7	☐	20000.000	20237.497	1682807.99	14.2289	A	0.9
8	☐	100000.00	99881.531	7995754.19	70.2243	A	0.4

$$y = 7.0307E-004 * x + 5.1573E-004$$

$$R = 1.0000$$

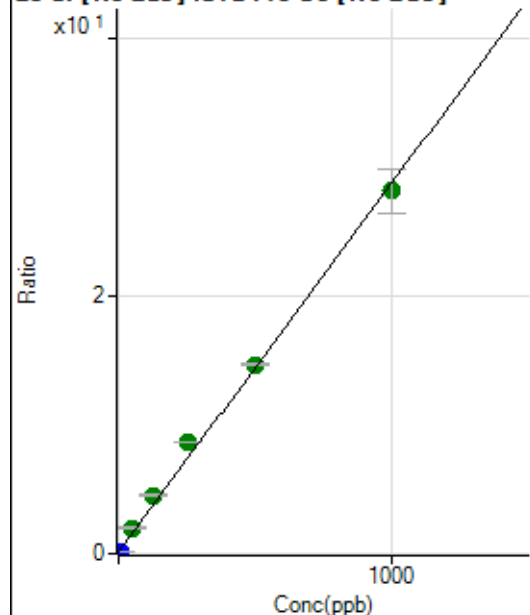
$$DL = 0.288$$

$$BEC = 0.7335$$

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	187984.47	0.1278	P	1.1
2	☐	10.000	0.216	195900.39	0.1340	P	1.4
3	☐	50.000	65.140	2904633.91	1.9892	A	2.5
4	☐	125.000	154.423	6623519.62	4.5405	A	2.5
5	☐	250.000	298.043	11920665.38	8.6444	A	0.7
6	☐	500.000	508.131	19537752.49	14.6478	A	1.2
7	☐	1000.000	979.587	35295725.86	28.1197	A	12.0
8	☐			516001.98	0.4121	P	16.4

$$y = 0.0286 * x + 0.1278$$

$$R = 0.9982$$

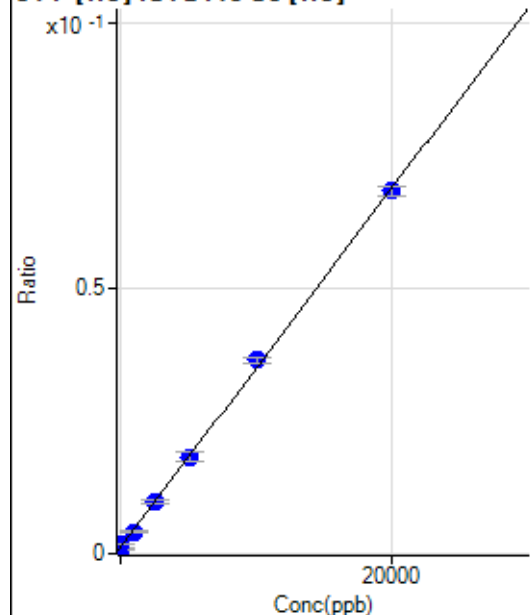
$$DL = 0.1476$$

$$BEC = 4.471$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-135.366	112.22	0.0009	P	24.1
2	☐	0.000	135.366	232.22	0.0018	P	1.4
3	☐	1000.000	811.607	525.57	0.0041	P	9.7
4	☐	2500.000	2454.768	1222.28	0.0096	P	7.2
5	☐	5000.000	5016.511	2221.30	0.0183	P	8.1
6	☐	10000.000	10379.119	4253.96	0.0364	P	2.1
7	☐	20000.000	19821.387	8087.77	0.0684	P	2.4
8	☐			115.56	0.0010	P	3.5

$$y = 3.3830E-006 * x + 0.0013$$

$$R = 0.9996$$

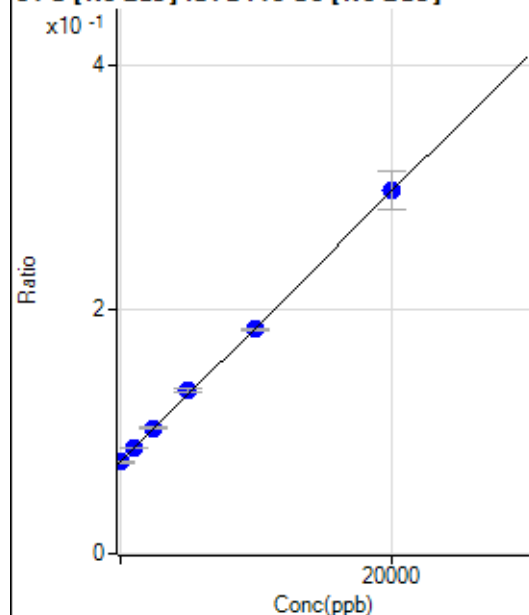
$$DL = 104.1$$

$$BEC = 392$$

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	-21.065	110201.39	0.0749	P	0.7
2	☐	0.000	21.065	110217.06	0.0754	P	2.1
3	☐	1000.000	1046.506	126649.05	0.0867	P	1.0
4	☐	2500.000	2480.214	149662.29	0.1026	P	2.0
5	☐	5000.000	5281.188	184210.46	0.1336	P	1.6
6	☐	10000.000	9799.421	244889.87	0.1836	P	1.1
7	☐	20000.000	20030.141	372939.31	0.2968	P	10.6
8	☐			97904.16	0.0782	P	0.8

$$y = 1.1069\text{E-}005 * x + 0.0751$$

R = 0.9998

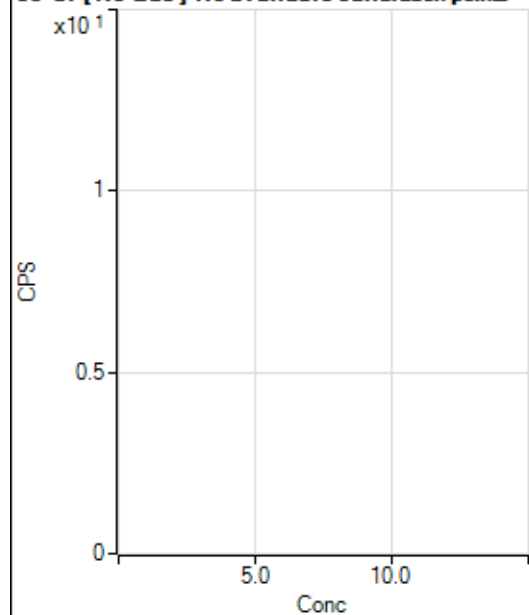
DL = 287.3

BEC = 6788

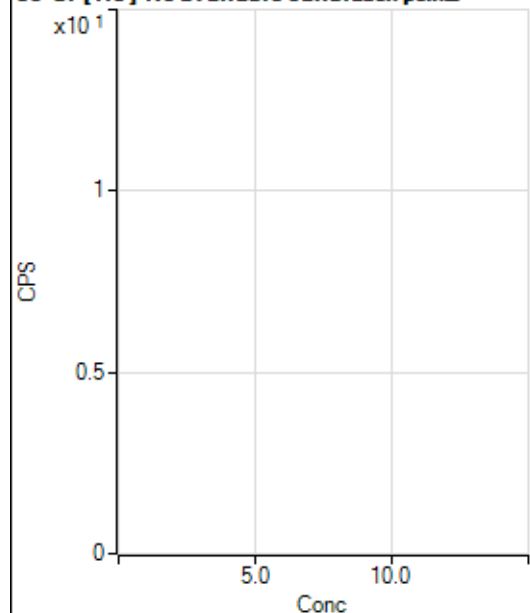
Weight: <None>

Min Conc: 0

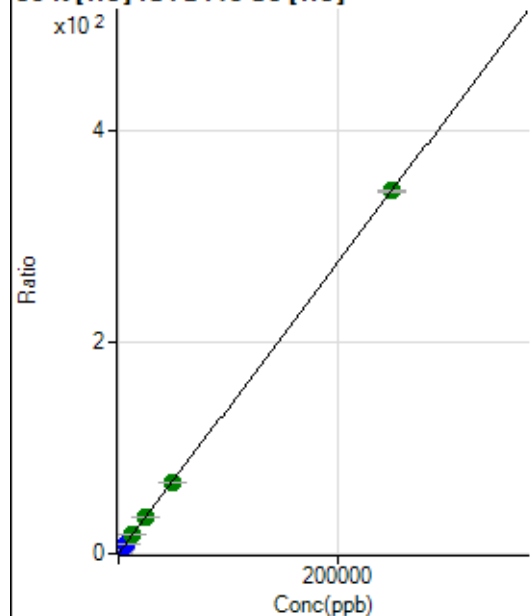
35 Cl [No Gas] No available calibration points



	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	33644.89	0.2603	P	1.0
2	☐	500.000	529.306	128351.80	0.9861	P	0.9
3	☐	2500.000	2722.282	515523.14	3.9932	P	0.9
4	☐	6250.000	6820.161	1219942.23	9.6124	P	0.1
5	☐	12500.000	12684.128	2144214.38	17.6533	A	1.3
6	☐	25000.000	24997.912	4031945.29	34.5385	A	1.5
7	☐	50000.000	49265.141	8020385.09	67.8146	A	0.2
8	☐	250000.00	250121.43	39080973.86	343.2368	A	0.7

$$y = 0.0014 * x + 0.2603$$

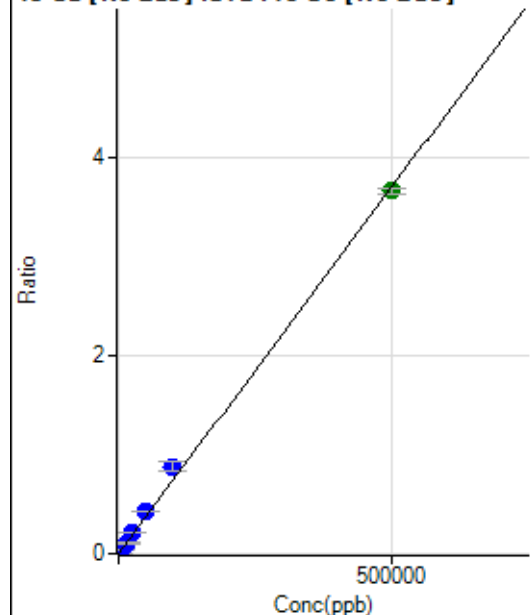
$$R = 1.0000$$

$$DL = 5.954$$

$$BEC = 189.8$$

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	152.23	0.0001	P	1.4
2	☐	500.000	529.183	5886.75	0.0040	P	2.4
3	☐	5000.000	5746.669	62355.18	0.0427	P	1.8
4	☐	12500.000	14324.397	155039.03	0.1063	P	2.0
5	☐	25000.000	29099.649	297549.00	0.2158	P	1.5
6	☐	50000.000	57249.980	566037.94	0.4244	P	1.9
7	☐	100000.00	119394.86	1111703.31	0.8850	P	10.8
8	☐	500000.00	495137.94	4596038.40	3.6700	A	1.3

$$y = 7.4118\text{E-}006 * x + 1.0347\text{E-}004$$

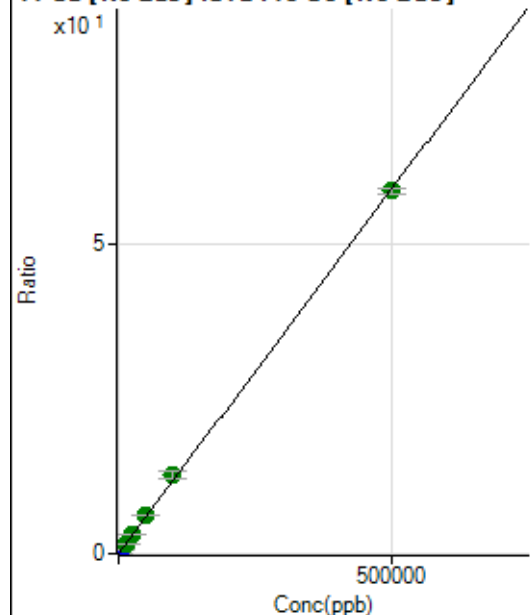
$$R = 0.9991$$

$$DL = 0.586$$

$$BEC = 13.96$$

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	2279.11	0.0015	P	4.3
2	☐	500.000	541.323	95659.99	0.0654	P	1.5
3	☐	5000.000	5654.294	976392.80	0.6686	P	1.4
4	☐	12500.000	13195.691	2273211.77	1.5583	A	2.4
5	☐	25000.000	26570.061	4324604.17	3.1361	A	0.8
6	☐	50000.000	51972.530	8179773.77	6.1329	A	1.4
7	☐	100000.00	108778.92	16122603.79	12.8345	A	10.7
8	☐	500000.00	497944.48	73569073.90	58.7454	A	1.4

$$y = 1.1797\text{E-}004 * x + 0.0015$$

$$R = 0.9998$$

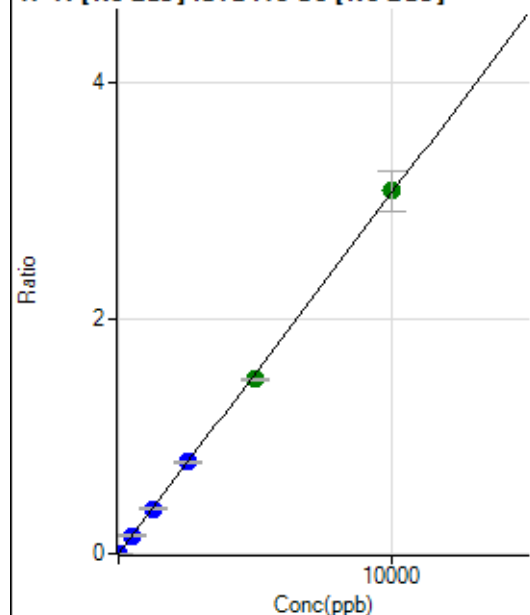
$$DL = 1.691$$

$$BEC = 13.13$$

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	56.67	0.0000	P	10.1
2	☐	5.000	5.515	2526.90	0.0017	P	2.8
3	☐	500.000	504.104	225582.10	0.1545	P	1.2
4	☐	1250.000	1247.077	557380.63	0.3821	P	2.0
5	☐	2500.000	2554.638	1079172.65	0.7826	P	1.6
6	☐	5000.000	4837.637	1976724.07	1.4820	A	0.8
7	☐	10000.000	10067.682	3873880.60	3.0842	A	11.0
8	☐			614.46	0.0005	P	7.3

$$y = 3.0634\text{E-}004 * x + 3.8514\text{E-}005$$

$$R = 0.9998$$

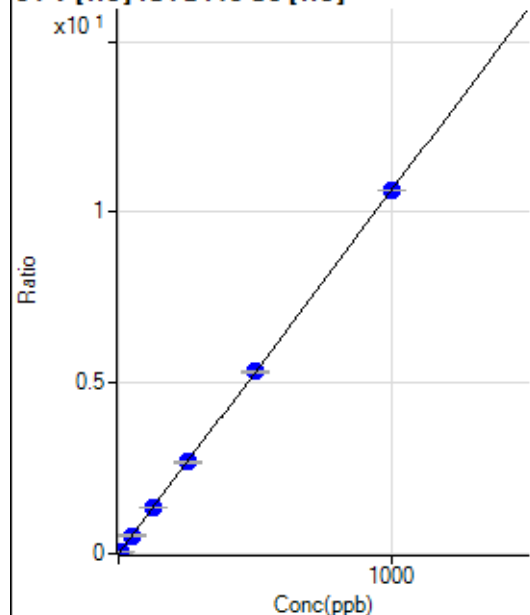
$$DL = 0.0381$$

$$BEC = 0.1257$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.991	6910.53	0.0531	P	1.3
3	☐	50.000	50.017	68679.73	0.5320	P	1.8
4	☐	125.000	125.558	169486.47	1.3355	P	1.0
5	☐	250.000	251.744	325217.97	2.6776	P	1.6
6	☐	500.000	501.418	622580.11	5.3332	P	1.5
7	☐	1000.000	998.785	1256408.38	10.6233	P	0.0
8	☐			216.67	0.0019	P	10.9

$$y = 0.0106 * x + 8.5067\text{E-}006$$

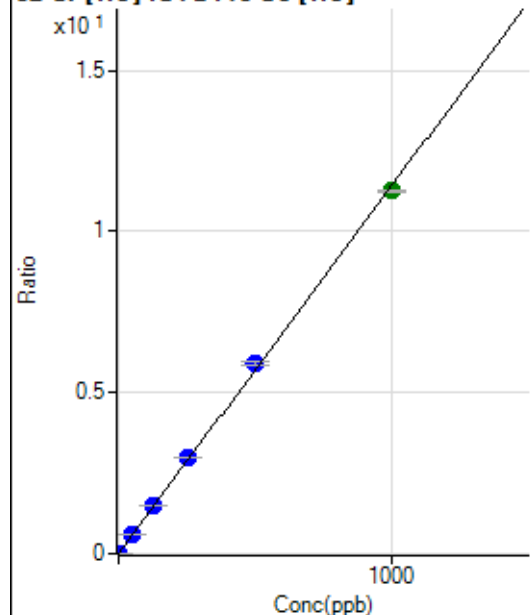
$$R = 1.0000$$

$$DL = 0.004156$$

$$BEC = 0.0007998$$

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	178.89	0.0014	P	7.8
2	☐	2.000	2.100	3297.06	0.0253	P	3.0
3	☐	50.000	52.454	77399.38	0.5995	P	1.6
4	☐	125.000	130.755	189408.95	1.4925	P	0.8
5	☐	250.000	262.154	363280.75	2.9909	P	1.1
6	☐	500.000	518.628	690571.66	5.9156	P	1.4
7	☐	1000.000	986.805	1331056.15	11.2545	A	0.3
8	☐			4018.35	0.0353	P	3.7

$$y = 0.0114 * x + 0.0014$$

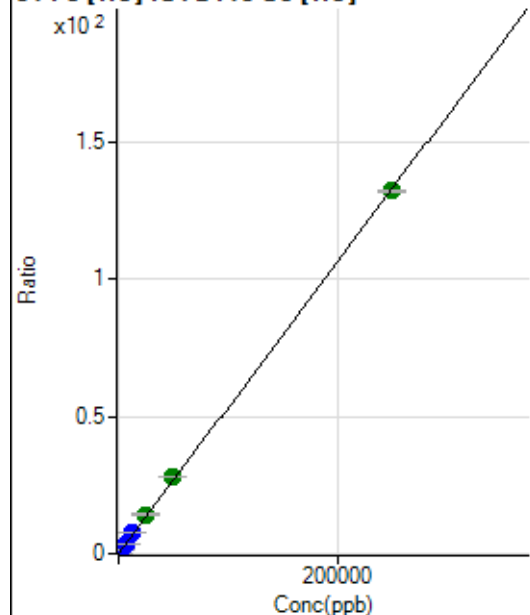
$$R = 0.9997$$

$$DL = 0.02822$$

$$BEC = 0.1213$$

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	891.15	0.0069	P	5.8
2	☐	50.000	56.594	4798.59	0.0369	P	3.3
3	☐	2500.000	2869.295	197127.20	1.5269	P	0.9
4	☐	6250.000	7188.371	484170.29	3.8150	P	0.8
5	☐	12500.000	14283.348	919932.79	7.5737	P	0.8
6	☐	25000.000	26855.604	1661629.00	14.2340	A	1.6
7	☐	50000.000	52864.723	3313036.37	28.0128	A	0.3
8	☐	250000.00	249125.17	15028035.05	131.9846	A	0.6

$$y = 5.2976E-004 * x + 0.0069$$

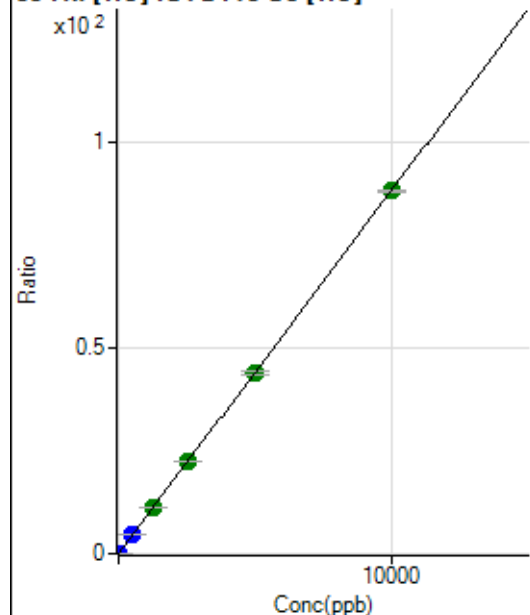
$$R = 0.9999$$

$$DL = 2.283$$

$$BEC = 13.01$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0007	P	17.4
2	☐	1.000	1.048	1301.18	0.0100	P	2.0
3	☐	500.000	521.860	594937.27	4.6083	P	0.4
4	☐	1250.000	1265.966	1418651.65	11.1781	A	0.1
5	☐	2500.000	2547.810	2732340.48	22.4957	A	1.1
6	☐	5000.000	4989.678	5142733.53	44.0552	A	1.9
7	☐	10000.000	9990.120	10431967.41	88.2047	A	0.4
8	☐			4557.40	0.0400	P	2.7

$$y = 0.0088 * x + 7.4720E-004$$

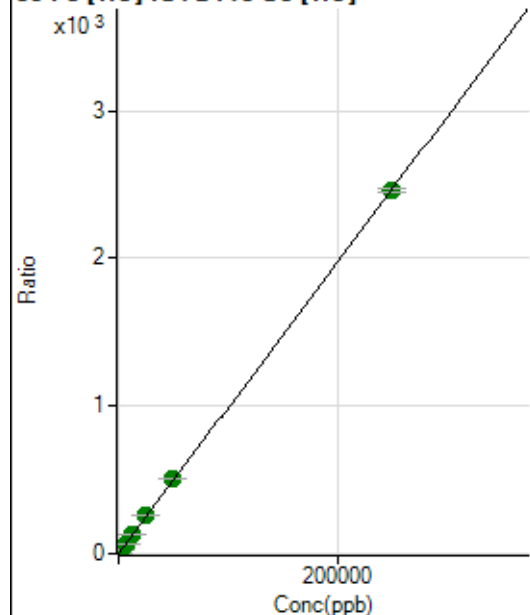
$$R = 1.0000$$

$$DL = 0.04409$$

$$BEC = 0.08463$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5840.07	0.0452	P	2.4
2	☐	50.000	56.174	77854.39	0.5982	P	1.3
3	☐	2500.000	2644.839	3366988.60	26.0808	A	1.9
4	☐	6250.000	6630.850	8289698.28	65.3187	A	0.9
5	☐	12500.000	13149.856	15728461.71	129.4913	A	0.8
6	☐	25000.000	26001.651	29884878.72	256.0033	A	1.6
7	☐	50000.000	51780.167	60289434.66	509.7649	A	0.0
8	☐	250000.00	249500.33	279653242.5	2,456.105	A	0.9

$$y = 0.0098 * x + 0.0452$$

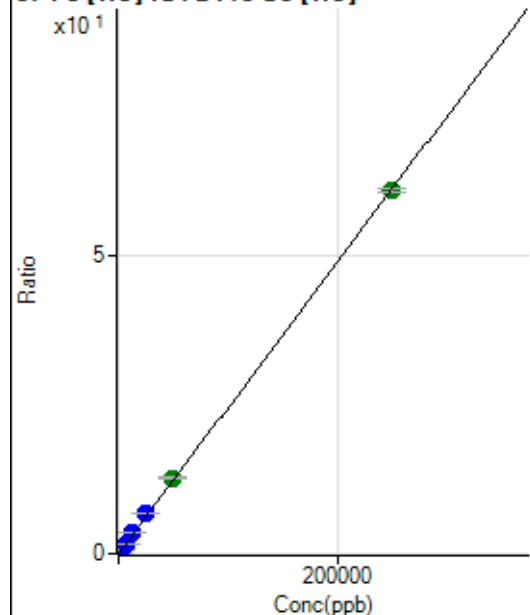
$$R = 1.0000$$

$$DL = 0.3351$$

$$BEC = 4.591$$

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	634.47	0.0049	P	13.4
2	☐	50.000	58.858	2504.68	0.0193	P	7.0
3	☐	2500.000	2828.497	89603.71	0.6941	P	2.0
4	☐	6250.000	7071.801	219301.03	1.7280	P	0.7
5	☐	12500.000	14090.097	417585.41	3.4380	P	1.2
6	☐	25000.000	28098.370	799828.48	6.8512	P	0.9
7	☐	50000.000	51901.595	1496179.42	12.6509	A	1.2
8	☐	250000.00	249206.50	6914228.23	60.7251	A	1.0

$$y = 2.4365E-004 * x + 0.0049$$

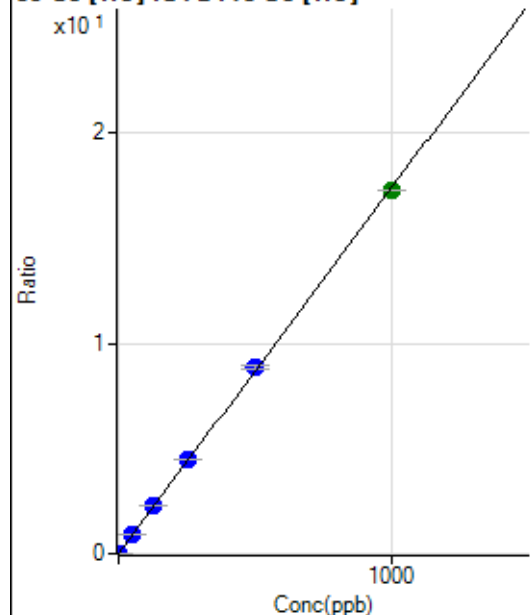
$$R = 0.9999$$

$$DL = 8.088$$

$$BEC = 20.16$$

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	26.67	0.0002	P	36.8
2	☐	1.000	1.102	2523.57	0.0194	P	4.8
3	☐	50.000	51.919	116681.13	0.9038	P	0.9
4	☐	125.000	130.044	287261.37	2.2635	P	0.9
5	☐	250.000	258.275	546002.33	4.4952	P	1.2
6	☐	500.000	510.590	1037383.57	8.8865	P	1.5
7	☐	1000.000	991.910	2041724.29	17.2634	A	0.1
8	☐			5023.11	0.0441	P	0.9

$$y = 0.0174 * x + 2.0600E-004$$

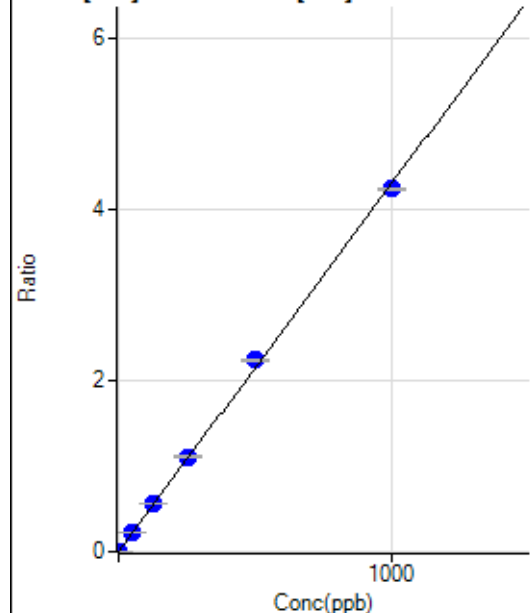
$$R = 0.9999$$

$$DL = 0.01306$$

$$BEC = 0.01184$$

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	52.22	0.0004	P	10.5
2	☐	1.000	1.038	633.35	0.0049	P	9.0
3	☐	50.000	52.856	29407.78	0.2278	P	1.4
4	☐	125.000	131.174	71668.93	0.5647	P	1.3
5	☐	250.000	258.579	135162.22	1.1128	P	1.3
6	☐	500.000	521.742	262080.44	2.2450	P	1.1
7	☐	1000.000	986.070	501755.21	4.2425	P	0.7
8	☐			1801.24	0.0158	P	2.4

$$y = 0.0043 * x + 4.0428E-004$$

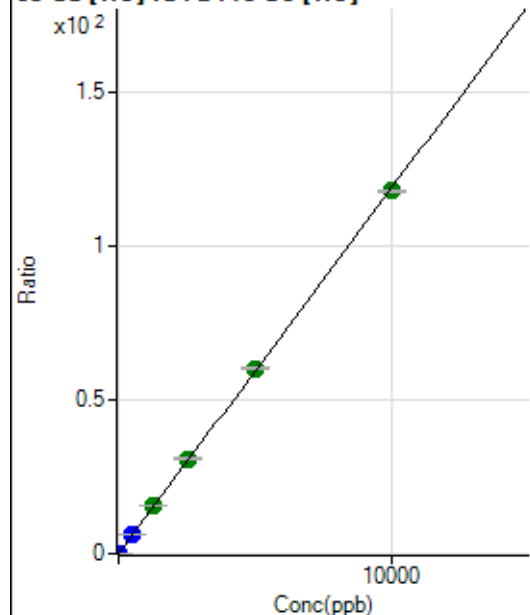
$$R = 0.9996$$

$$DL = 0.02963$$

$$BEC = 0.09397$$

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	333.34	0.0026	P	0.8
2	☐	2.000	1.973	3382.64	0.0260	P	1.1
3	☐	500.000	531.101	813899.77	6.3044	P	0.5
4	☐	1250.000	1321.520	1990372.18	15.6831	A	1.0
5	☐	2500.000	2603.841	3753170.26	30.8986	A	0.7
6	☐	5000.000	5073.545	7027708.92	60.2029	A	1.8
7	☐	10000.000	9926.772	13930830.49	117.7891	A	0.3
8	☐			3051.46	0.0268	P	5.3

$$y = 0.0119 * x + 0.0026$$

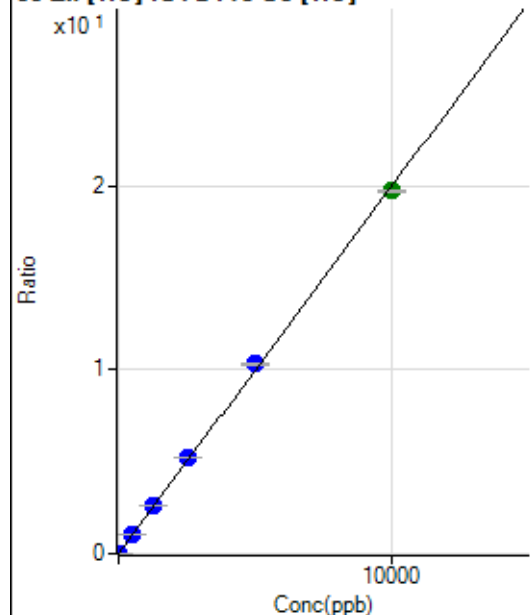
$$R = 0.9999$$

$$DL = 0.005395$$

$$BEC = 0.2174$$

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	77.78	0.0006	P	9.7
2	☐	2.000	5.207	1431.20	0.0110	P	8.9
3	☐	500.000	522.288	134745.76	1.0437	P	1.0
4	☐	1250.000	1304.472	330723.59	2.6060	P	0.9
5	☐	2500.000	2612.834	633937.34	5.2191	P	0.7
6	☐	5000.000	5163.807	1204059.16	10.3140	P	1.2
7	☐	10000.000	9881.964	2334284.57	19.7373	A	0.7
8	☐			807.81	0.0071	P	1.5

$$y = 0.0020 * x + 6.0207E-004$$

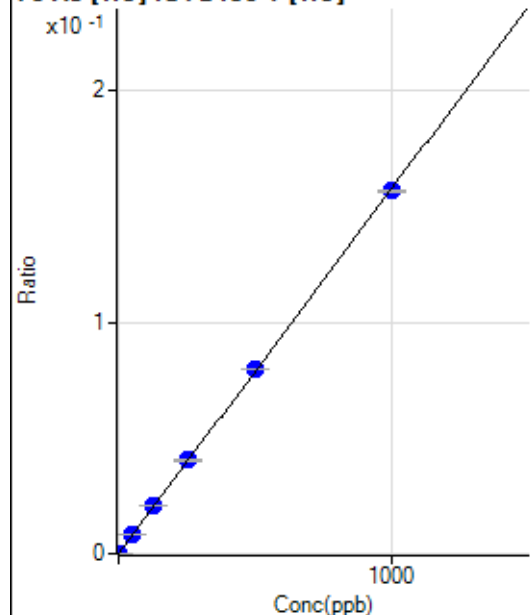
$$R = 0.9997$$

$$DL = 0.08741$$

$$BEC = 0.3014$$

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	1.11	0.0000	P	173.
2	☐	1.000	1.323	252.23	0.0002	P	7.6
3	☐	50.000	51.629	9784.42	0.0081	P	3.9
4	☐	125.000	129.765	24096.26	0.0204	P	0.4
5	☐	250.000	256.290	46013.32	0.0404	P	1.1
6	☐	500.000	506.087	88064.69	0.0797	P	0.8
7	☐	1000.000	994.707	176305.51	0.1567	P	0.6
8	☐			92.22	0.0001	P	17.4

$$y = 1.5754E-004 * x + 9.2580E-007$$

$$R = 0.9999$$

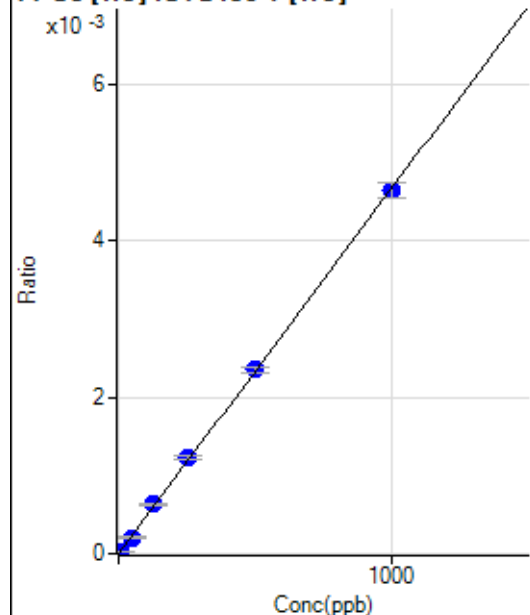
$$DL = 0.03054$$

$$BEC = 0.005877$$

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	4.938	27.78	0.0000	P	34.5
3	☐	50.000	44.159	247.78	0.0002	P	17.2
4	☐	125.000	134.504	740.03	0.0006	P	5.7
5	☐	250.000	262.349	1395.64	0.0012	P	3.0
6	☐	500.000	504.935	2603.58	0.0024	P	3.3
7	☐	1000.000	993.550	5217.63	0.0046	P	4.2
8	☐			2.22	0.0000	P	86.6

$$y = 4.6681\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

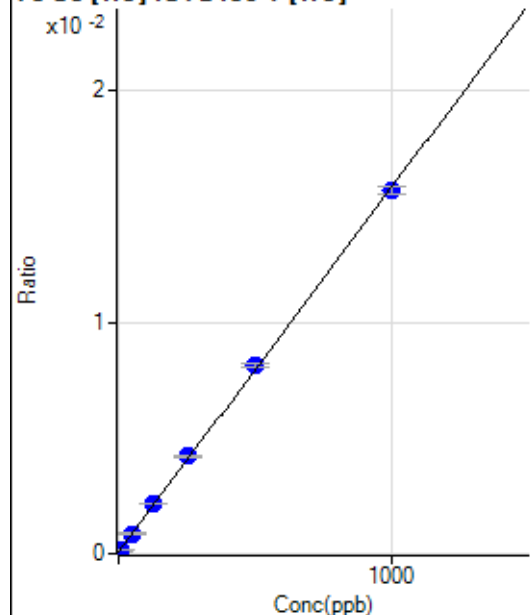
$$DL = 0$$

$$BEC = 0$$

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	97.78	0.0001	P	39.1
2	☐	5.000	5.274	198.89	0.0002	P	8.5
3	☐	50.000	50.178	1048.94	0.0009	P	10.2
4	☐	125.000	132.717	2559.14	0.0022	P	1.9
5	☐	250.000	261.500	4784.15	0.0042	P	3.7
6	☐	500.000	511.391	8981.69	0.0081	P	1.9
7	☐	1000.000	990.455	17633.93	0.0157	P	2.0
8	☐			81.11	0.0001	P	21.0

$$y = 1.5741\text{E-}005 * x + 8.2072\text{E-}005$$

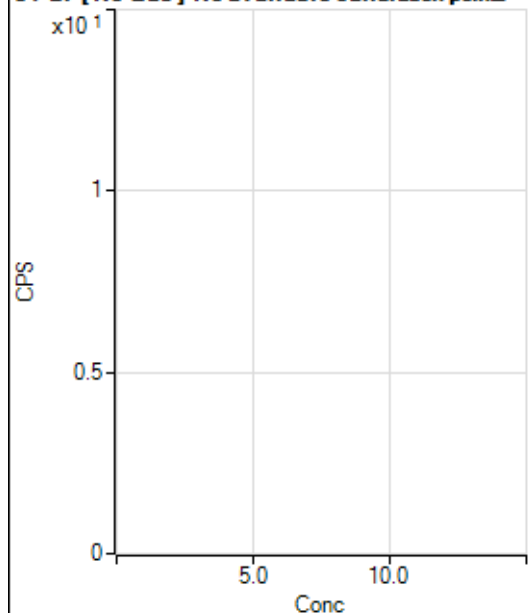
$$R = 0.9998$$

$$DL = 6.116$$

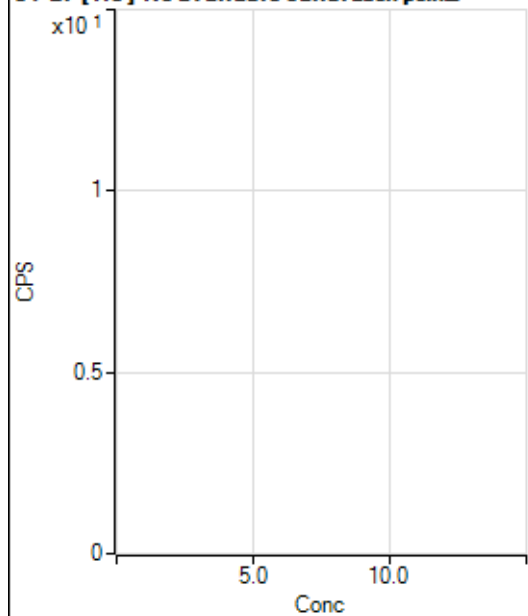
$$BEC = 5.214$$

Weight: <None>

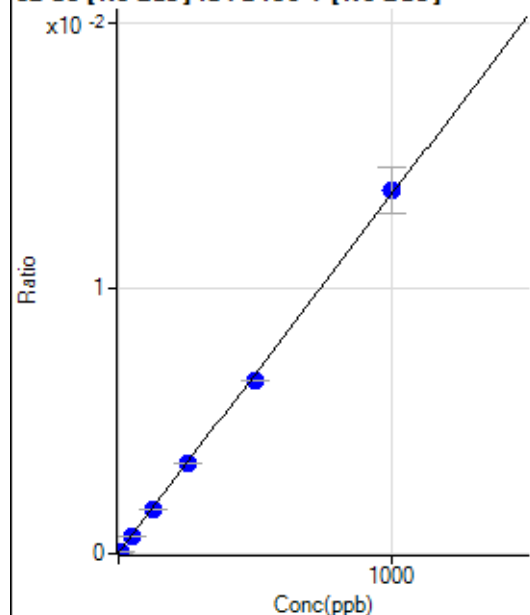
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6891.68		P	3.8
2	☐			6898.34		P	4.6
3	☐			6824.97		P	1.9
4	☐			6902.80		P	4.5
5	☐			6594.86		P	4.1
6	☐			5824.53		P	2.2
7	☐			5546.65		P	3.1
8	☐			5524.42		P	1.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	4.6
2	☐			26.67		P	43.3
3	☐			23.33		P	24.7
4	☐			26.67		P	37.5
5	☐			23.33		P	14.3
6	☐			12.22		P	56.8
7	☐			27.78		P	6.9
8	☐			34.44		P	24.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.71	0.0000	P	18.7
2	☐	5.000	4.393	408.28	0.0001	P	1.9
3	☐	50.000	48.263	3220.79	0.0007	P	1.5
4	☐	125.000	122.140	7993.58	0.0017	P	2.6
5	☐	250.000	247.700	15302.15	0.0034	P	0.1
6	☐	500.000	481.372	29113.22	0.0065	P	0.6
7	☐	1000.000	1010.336	56377.20	0.0136	P	12.6
8	☐			183.34	0.0000	P	6.1

$$y = 1.3481\text{E-}005 * x + 2.6151\text{E-}005$$

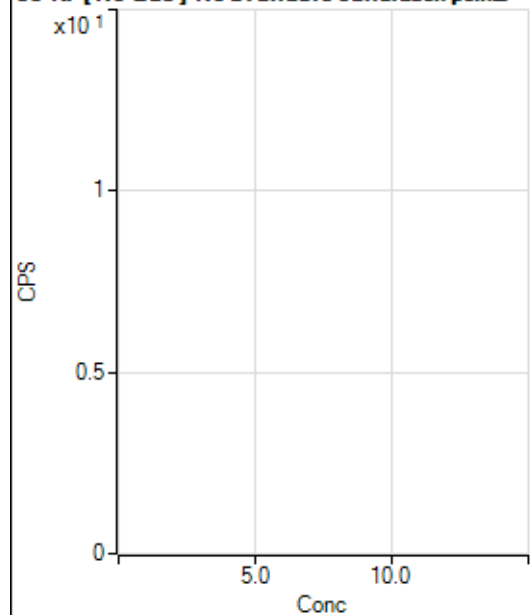
$$R = 0.9997$$

$$DL = 1.091$$

$$BEC = 1.94$$

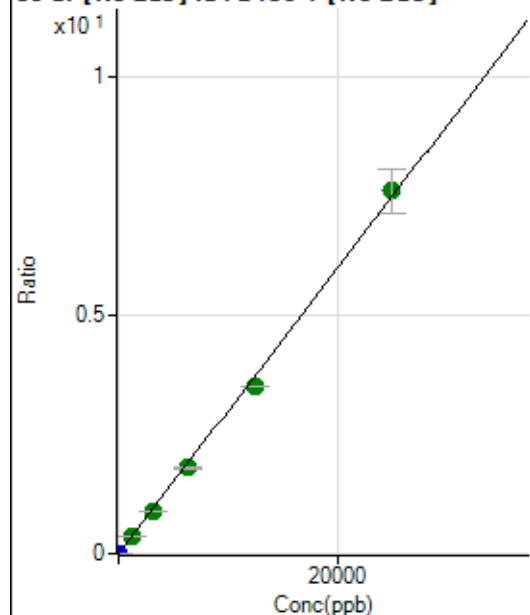
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			68.89		P	41.1
2	☐			85.56		P	19.2
3	☐			68.89		P	14.8
4	☐			77.78		P	28.5
5	☐			95.56		P	13.2
6	☐			83.33		P	10.6
7	☐			77.78		P	13.1
8	☐			72.22		P	29.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0000	P	5.8
2	☐	1.000	1.002	1563.44	0.0003	P	5.2
3	☐	1250.000	1182.481	1681679.82	0.3534	A	1.7
4	☐	3125.000	2958.605	4225667.16	0.8842	A	0.3
5	☐	6250.000	6008.265	8164000.78	1.7956	A	0.7
6	☐	12500.000	11751.972	15692441.99	3.5121	A	0.8
7	☐	25000.000	25458.623	31446213.70	7.6083	A	11.9
8	☐			4310.67	0.0010	P	4.1

$$y = 2.9885E-004 * x + 2.7485E-005$$

$$R = 0.9993$$

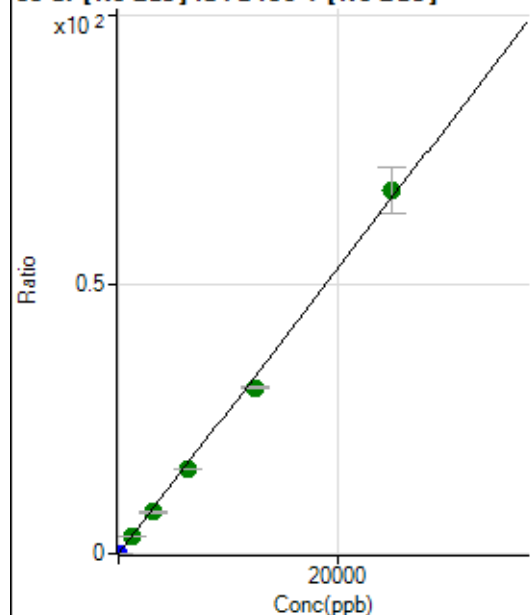
$$DL = 0.01605$$

$$BEC = 0.09197$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92.22	0.0000	P	1.2
2	☐	1.000	0.954	12128.44	0.0025	P	0.7
3	☐	1250.000	1167.649	14649948.25	3.0787	A	0.9
4	☐	3125.000	2916.448	36747768.06	7.6898	A	1.2
5	☐	6250.000	5976.270	71647248.93	15.7575	A	1.2
6	☐	12500.000	11653.124	137286176.8	30.7256	A	1.2
7	☐	25000.000	25522.057	277985206.9	67.2935	A	12.6
8	☐			36768.31	0.0089	P	5.6

$$y = 0.0026 * x + 1.9490E-005$$

$$R = 0.9991$$

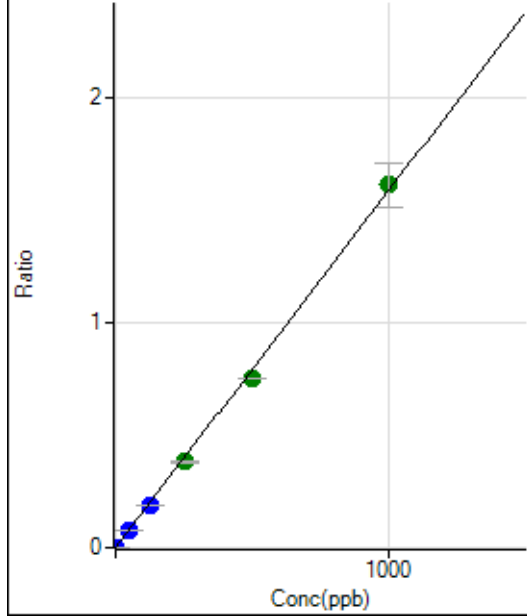
$$DL = 0.0002768$$

$$BEC = 0.007392$$

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	161.12	0.0000	P	13.7
2	☐	1.000	0.941	7286.32	0.0015	P	1.1
3	☐	50.000	47.943	361293.55	0.0759	P	1.2
4	☐	125.000	119.192	901845.27	0.1887	P	1.1
5	☐	250.000	240.452	1730943.60	0.3807	A	1.7
6	☐	500.000	473.196	3347198.18	0.7491	A	0.4
7	☐	1000.000	1016.618	6650983.17	1.6094	A	12.1
8	☐			3287.08	0.0008	P	1.0

$$y = 0.0016 * x + 3.4074E-005$$

$$R = 0.9994$$

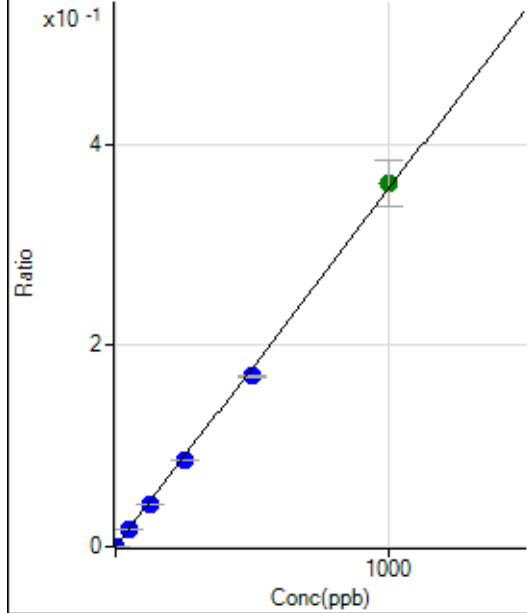
$$DL = 0.00887$$

$$BEC = 0.02152$$

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	31.11	0.0000	P	63.7
2	☐	1.000	0.905	1570.10	0.0003	P	1.4
3	☐	50.000	47.535	80404.11	0.0169	P	0.6
4	☐	125.000	118.974	202049.53	0.0423	P	1.4
5	☐	250.000	242.632	392030.85	0.0862	P	0.3
6	☐	500.000	476.076	755883.97	0.1692	P	0.3
7	☐	1000.000	1014.681	1489412.20	0.3606	A	12.7
8	☐			732.25	0.0002	P	17.4

$$y = 3.5533E-004 * x + 6.6004E-006$$

$$R = 0.9995$$

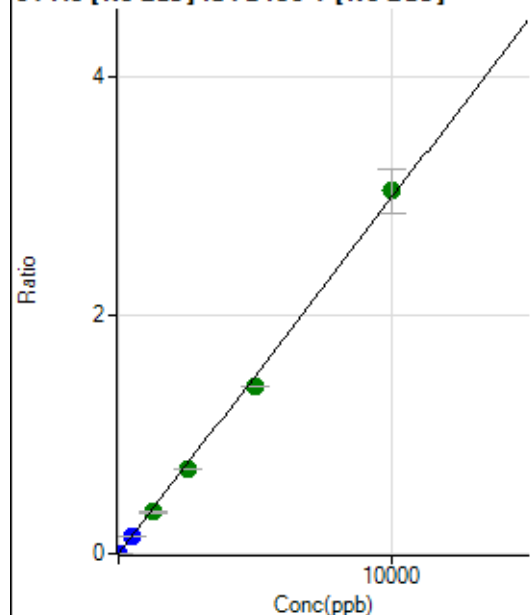
$$DL = 0.0355$$

$$BEC = 0.01858$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0000	P	21.0
2	☐	5.000	5.920	8523.65	0.0018	P	3.0
3	☐	500.000	475.547	675747.77	0.1420	P	1.3
4	☐	1250.000	1173.770	1674857.52	0.3505	A	2.2
5	☐	2500.000	2382.162	3234203.28	0.7113	A	1.2
6	☐	5000.000	4691.104	6259007.83	1.4008	A	0.6
7	☐	10000.000	10194.658	12577016.06	3.0442	A	12.5
8	☐			2776.95	0.0007	P	3.6

$$y = 2.9860\text{E-}004 * x + 1.4776\text{E-}005$$

$$R = 0.9992$$

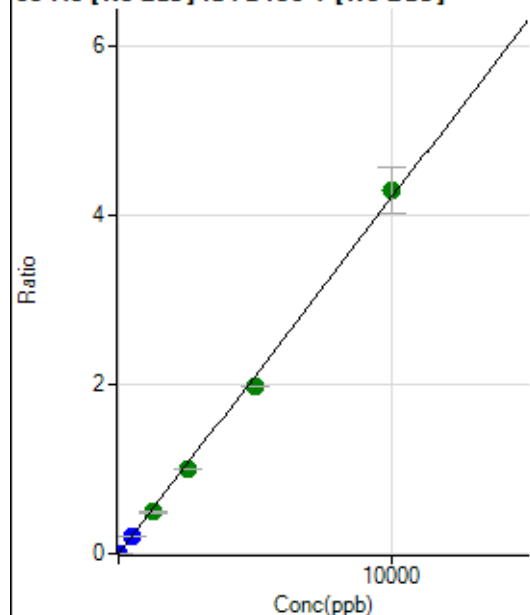
$$DL = 0.03121$$

$$BEC = 0.04948$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	36.0
2	☐	5.000	5.144	10388.21	0.0022	P	1.5
3	☐	500.000	470.769	944281.86	0.1985	P	1.3
4	☐	1250.000	1163.095	2342868.53	0.4903	A	1.7
5	☐	2500.000	2380.551	4562713.68	1.0035	A	0.2
6	☐	5000.000	4702.599	8857412.57	1.9823	A	0.9
7	☐	10000.000	10190.887	17746010.01	4.2958	A	12.6
8	☐			2551.37	0.0006	P	3.2

$$y = 4.2154\text{E-}004 * x + 3.9852\text{E-}006$$

$$R = 0.9993$$

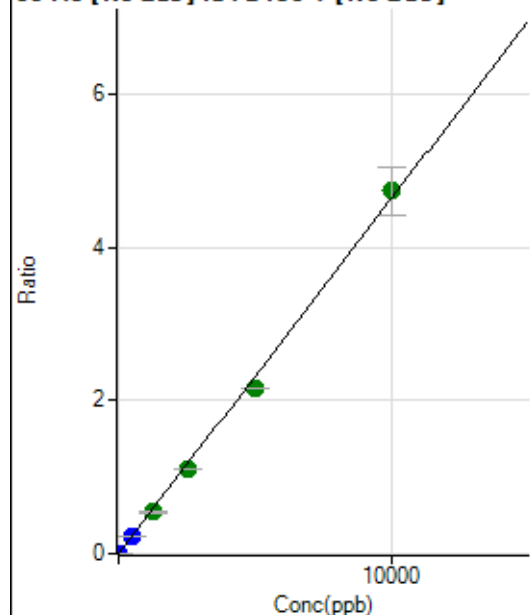
$$DL = 0.01021$$

$$BEC = 0.009454$$

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	22.22	0.0000	P	37.9
2	☐	5.000	5.278	11734.78	0.0025	P	1.3
3	☐	500.000	470.821	1039555.31	0.2185	P	1.3
4	☐	1250.000	1168.449	2590831.12	0.5422	A	1.5
5	☐	2500.000	2377.051	5015113.19	1.1030	A	0.7
6	☐	5000.000	4659.489	9660404.02	2.1621	A	0.4
7	☐	10000.000	10212.645	19563694.43	4.7388	A	13.5
8	☐			5647.82	0.0014	P	1.9

$$y = 4.6401E-004 * x + 4.7005E-006$$

$$R = 0.9991$$

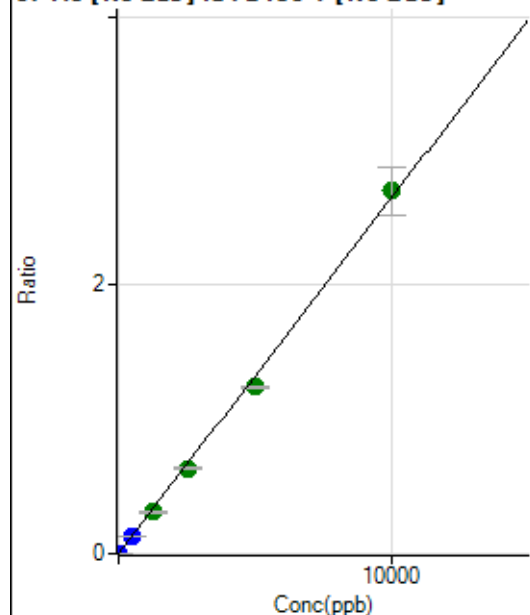
$$DL = 0.01151$$

$$BEC = 0.01013$$

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	10.00	0.0000	P	33.4
2	☐	5.000	5.249	6662.68	0.0014	P	1.0
3	☐	500.000	475.064	599073.06	0.1259	P	1.1
4	☐	1250.000	1166.915	1477803.78	0.3092	A	1.2
5	☐	2500.000	2400.308	2892226.55	0.6361	A	0.5
6	☐	5000.000	4680.147	5541850.89	1.2403	A	0.6
7	☐	10000.000	10196.482	11159448.45	2.7022	A	13.0
8	☐			1463.42	0.0004	P	11.5

$$y = 2.6501E-004 * x + 2.1148E-006$$

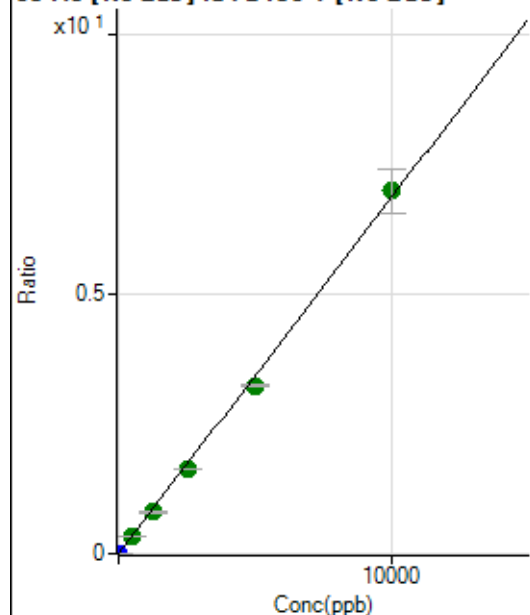
$$R = 0.9992$$

$$DL = 0.007986$$

$$BEC = 0.00798$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23.33	0.0000	P	0.9
2	☐	5.000	5.213	17137.92	0.0036	P	0.5
3	☐	500.000	464.782	1518216.37	0.3191	A	1.2
4	☐	1250.000	1166.926	3827998.94	0.8011	A	1.4
5	☐	2500.000	2381.002	7431591.55	1.6345	A	0.7
6	☐	5000.000	4717.769	14470766.87	3.2386	A	0.7
7	☐	10000.000	10183.010	28879484.57	6.9904	A	12.5
8	☐			3674.94	0.0009	P	7.1

$$y = 6.8647\text{E-}004 * x + 4.9313\text{E-}006$$

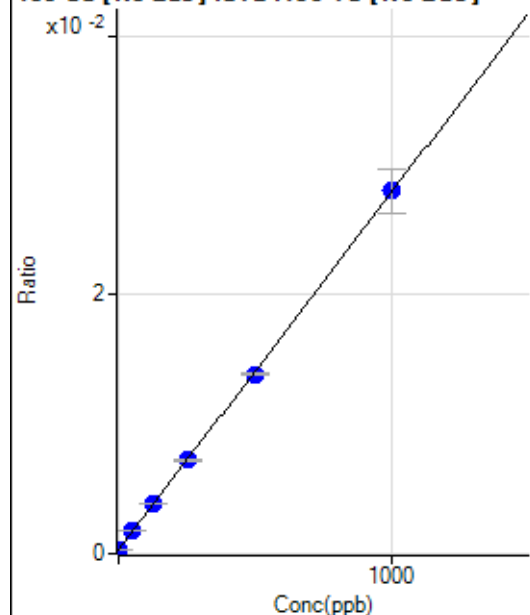
$$R = 0.9993$$

$$DL = 0.0001939$$

$$BEC = 0.007183$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1354.52	0.0003	P	7.7
2	☐	1.000	0.934	1486.76	0.0003	P	2.6
3	☐	50.000	51.454	7543.14	0.0017	P	3.4
4	☐	125.000	129.327	16788.70	0.0039	P	1.5
5	☐	250.000	251.822	30767.06	0.0073	P	2.1
6	☐	500.000	490.380	57673.80	0.0138	P	1.1
7	☐	1000.000	1003.741	111669.58	0.0280	P	11.9
8	☐			1278.96	0.0003	P	3.0

$$y = 2.7585\text{E-}005 * x + 3.1868\text{E-}004$$

$$R = 0.9999$$

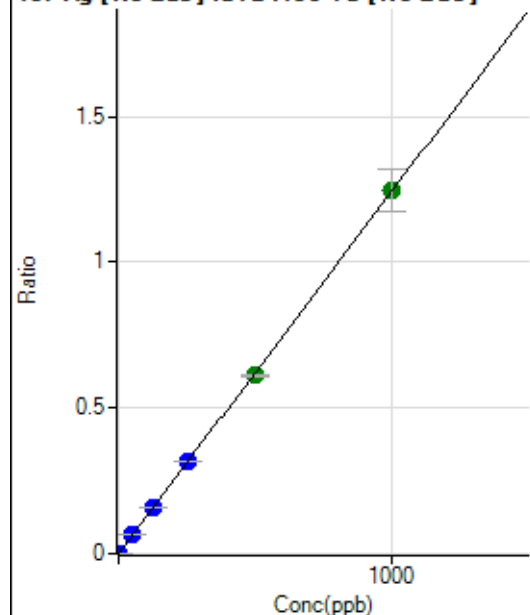
$$DL = 2.674$$

$$BEC = 11.55$$

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	20.00	0.0000	P	65.8
2	☐	1.000	0.948	5095.38	0.0012	P	5.6
3	☐	50.000	51.196	275811.43	0.0635	P	1.4
4	☐	125.000	128.511	689037.27	0.1595	P	1.1
5	☐	250.000	253.909	1334485.21	0.3151	P	0.3
6	☐	500.000	491.800	2542557.83	0.6104	A	0.6
7	☐	1000.000	1002.624	4962300.76	1.2443	A	11.6
8	☐			603.35	0.0001	P	8.7

$$y = 0.0012 * x + 4.6865E-006$$

$$R = 0.9999$$

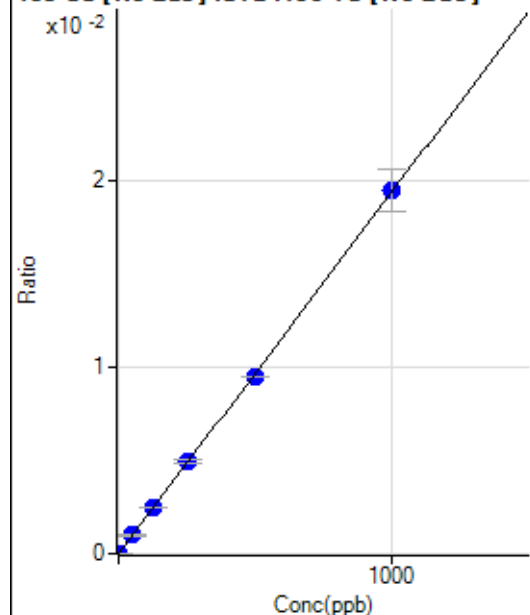
$$DL = 0.007453$$

$$BEC = 0.003776$$

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	1.11	0.0000	P	173.
2	☐	1.000	0.906	76.67	0.0000	P	4.9
3	☐	50.000	50.668	4249.55	0.0010	P	2.0
4	☐	125.000	127.323	10623.98	0.0025	P	3.3
5	☐	250.000	253.996	20772.76	0.0049	P	4.1
6	☐	500.000	488.296	39285.24	0.0094	P	0.2
7	☐	1000.000	1004.529	77370.35	0.0194	P	11.6
8	☐			31.11	0.0000	P	18.0

$$y = 1.9313E-005 * x + 2.6256E-007$$

$$R = 0.9999$$

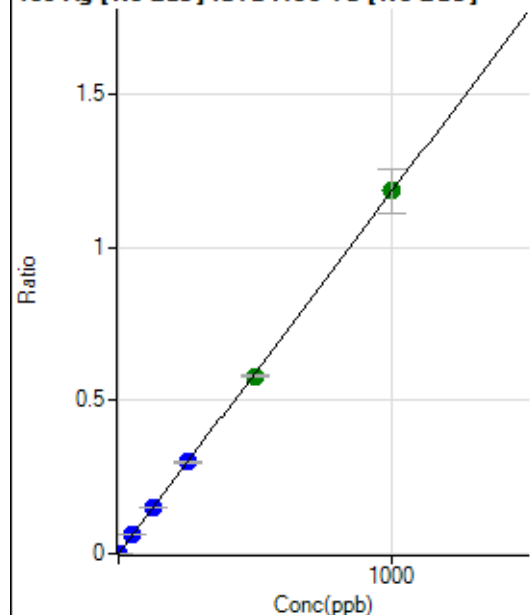
$$DL = 0.07064$$

$$BEC = 0.01359$$

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	13.33	0.0000	P	44.0
2	☐	1.000	0.973	4974.23	0.0012	P	2.4
3	☐	50.000	51.391	263588.43	0.0607	P	1.6
4	☐	125.000	128.365	655267.53	0.1517	P	1.6
5	☐	250.000	253.039	1266191.35	0.2990	P	0.5
6	☐	500.000	491.345	2418428.30	0.5806	A	1.0
7	☐	1000.000	1003.077	4725668.54	1.1853	A	11.9
8	☐			565.57	0.0001	P	8.9

$$y = 0.0012 * x + 3.1422E-006$$

$$R = 0.9999$$

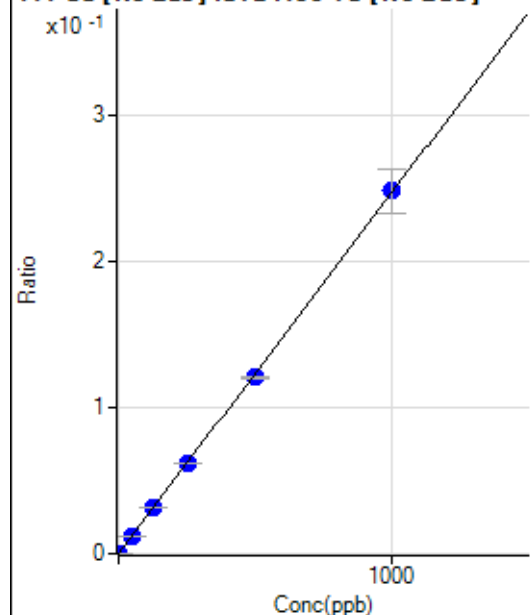
$$DL = 0.003509$$

$$BEC = 0.002659$$

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	136.90	0.0000	P	6.3
2	☐	1.000	1.035	1242.85	0.0003	P	6.2
3	☐	50.000	50.001	53749.58	0.0124	P	1.8
4	☐	125.000	126.538	135176.89	0.0313	P	0.5
5	☐	250.000	250.175	261846.12	0.0618	P	0.8
6	☐	500.000	487.954	502220.31	0.1206	P	0.6
7	☐	1000.000	1005.787	990500.36	0.2485	P	12.2
8	☐			252.79	0.0001	P	7.2

$$y = 2.4702E-004 * x + 3.2210E-005$$

$$R = 0.9999$$

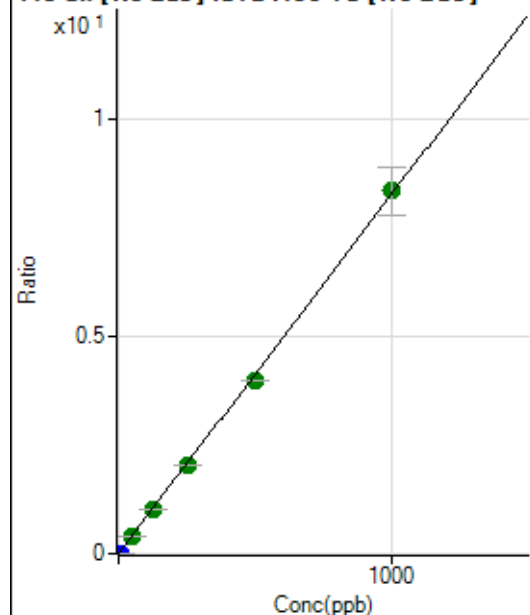
$$DL = 0.02465$$

$$BEC = 0.1304$$

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	647.80	0.0002	P	10.6
2	☐	5.000	0.539	19842.70	0.0046	P	2.7
3	☐	50.000	48.969	1755096.01	0.4043	A	1.5
4	☐	125.000	124.744	4448884.58	1.0298	A	0.9
5	☐	250.000	245.417	8579010.50	2.0258	A	0.4
6	☐	500.000	482.225	16580554.47	3.9804	A	0.8
7	☐	1000.000	1010.139	33216625.34	8.3379	A	13.0
8	☐			4085.06	0.0010	P	1.9

$$y = 0.0083 * x + 1.5249E-004$$

$$R = 0.9998$$

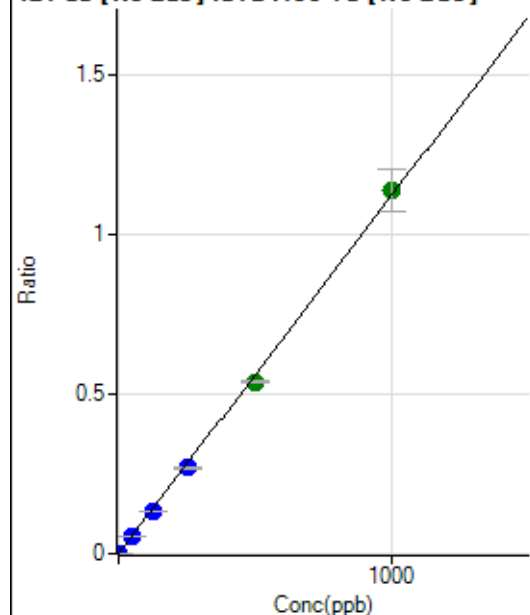
$$DL = 0.005893$$

$$BEC = 0.01847$$

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	5.56	0.0000	P	92.1
2	☐	2.000	1.870	9052.92	0.0021	P	2.5
3	☐	50.000	47.681	231994.18	0.0534	P	2.3
4	☐	125.000	119.930	580788.80	0.1344	P	1.1
5	☐	250.000	239.411	1136512.56	0.2684	P	0.3
6	☐	500.000	479.775	2240254.04	0.5378	A	0.9
7	☐	1000.000	1013.509	4529985.17	1.1361	A	11.8
8	☐			2100.17	0.0005	P	5.9

$$y = 0.0011 * x + 1.3062E-006$$

$$R = 0.9996$$

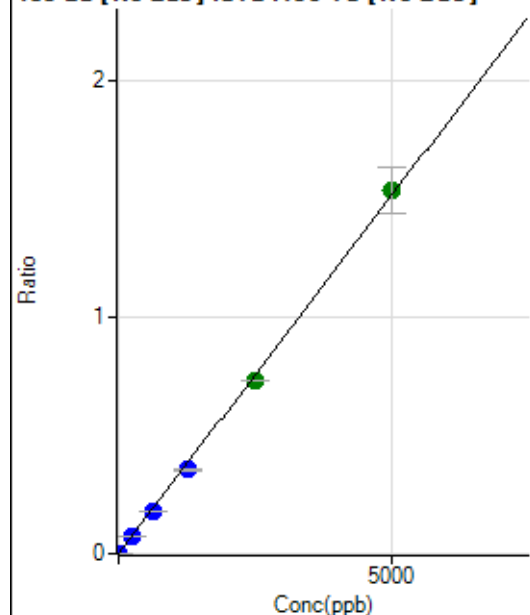
$$DL = 0.00322$$

$$BEC = 0.001165$$

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	4.44	0.0000	P	43.9
2	☐	10.000	9.032	11807.20	0.0027	P	2.4
3	☐	250.000	232.916	306151.02	0.0705	P	1.2
4	☐	625.000	587.241	768241.49	0.1778	P	0.7
5	☐	1250.000	1168.870	1498926.12	0.3540	P	0.5
6	☐	2500.000	2420.739	3053495.37	0.7330	A	0.7
7	☐	5000.000	5065.489	6112825.39	1.5339	A	12.6
8	☐			2071.28	0.0005	P	3.3

$$y = 3.0281E-004 * x + 1.0468E-006$$

$$R = 0.9997$$

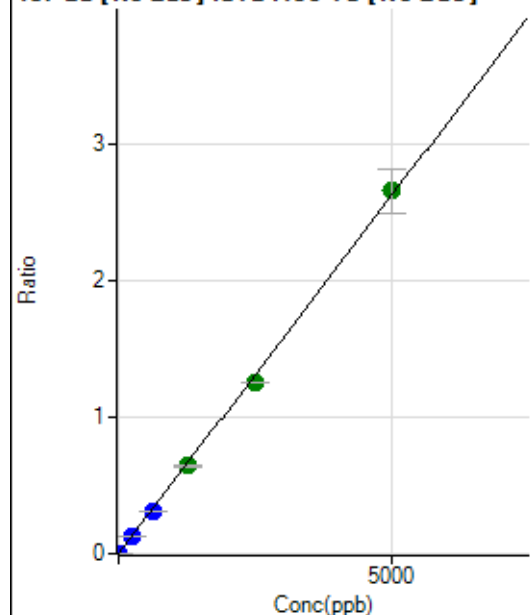
$$DL = 0.004556$$

$$BEC = 0.003457$$

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	28.89	0.0000	P	7.7
2	☐	10.000	9.148	20747.45	0.0048	P	2.6
3	☐	250.000	233.140	531094.04	0.1224	P	1.7
4	☐	625.000	586.913	1330663.39	0.3080	P	0.9
5	☐	1250.000	1223.596	2719296.59	0.6421	A	0.8
6	☐	2500.000	2390.220	5225121.07	1.2544	A	0.5
7	☐	5000.000	5067.097	10599687.41	2.6592	A	12.2
8	☐			3648.28	0.0009	P	1.3

$$y = 5.2479E-004 * x + 6.7999E-006$$

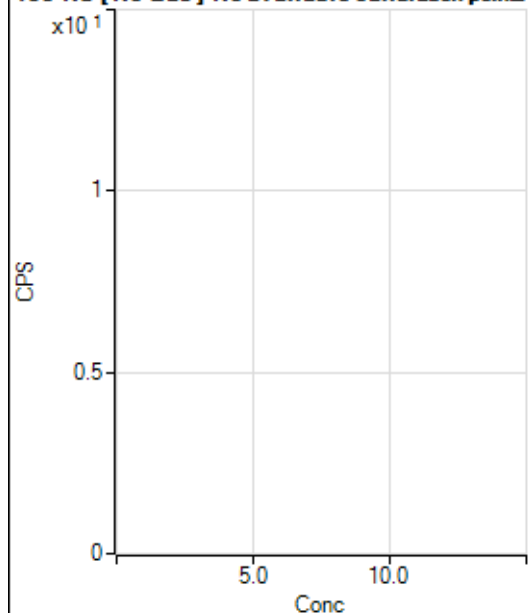
$$R = 0.9996$$

$$DL = 0.002987$$

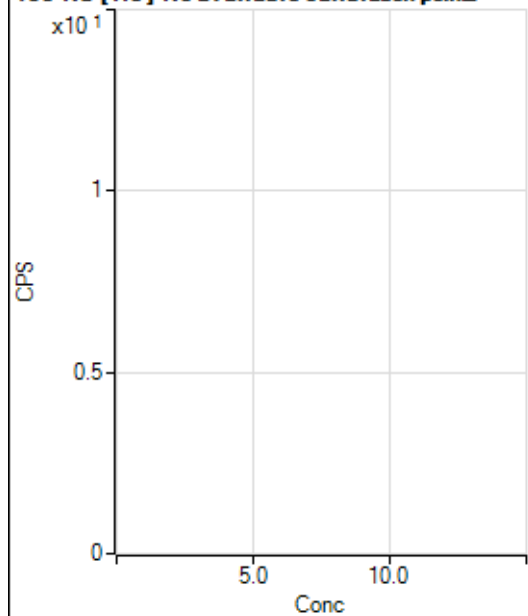
$$BEC = 0.01296$$

Weight: <None>

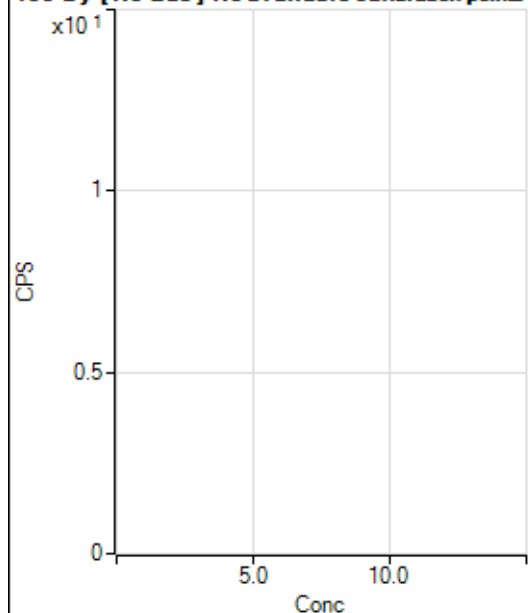
Min Conc: 0

150 Nd [No Gas] No available calibration points

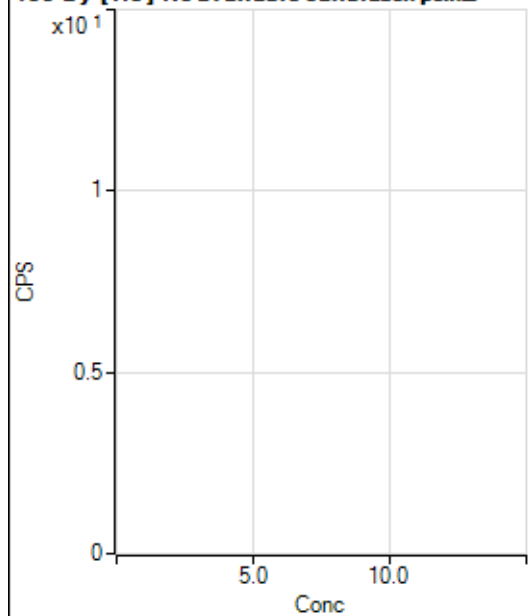
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			2.22		P	173.
3	☐			37.78		P	18.4
4	☐			71.11		P	30.1
5	☐			155.56		P	24.7
6	☐			304.45		P	7.8
7	☐			516.68		P	1.1
8	☐			85.55		P	8.1

150 Nd [He] No available calibration points

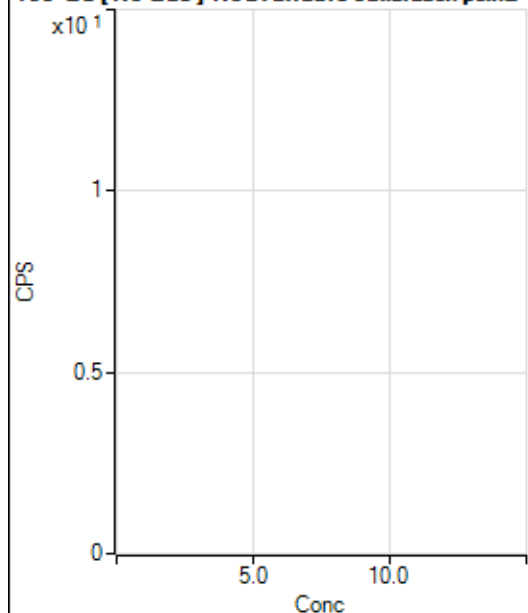
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			5.56		P	91.6
4	☐			11.11		P	45.8
5	☐			28.89		P	24.0
6	☐			72.22		P	10.7
7	☐			117.78		P	13.1
8	☐			50.00		P	0.0

156 Dy [No Gas] No available calibration points

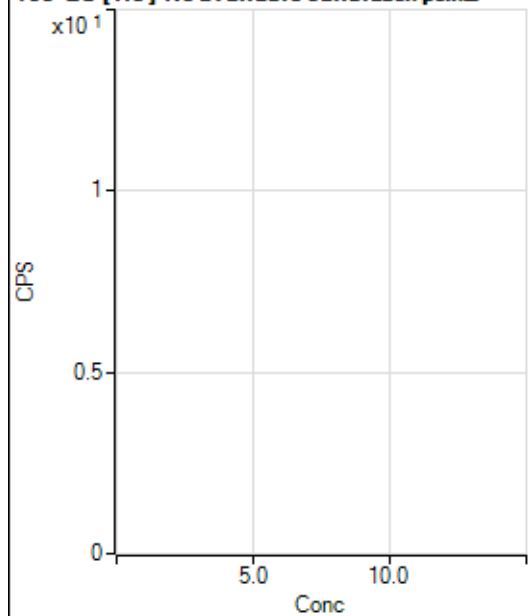
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	32.7
2	☐			44.44		P	26.3
3	☐			28.89		P	40.5
4	☐			61.11		P	22.7
5	☐			70.00		P	20.8
6	☐			131.11		P	12.5
7	☐			231.12		P	10.1
8	☐			201.12		P	16.1

156 Dy [He] No available calibration points

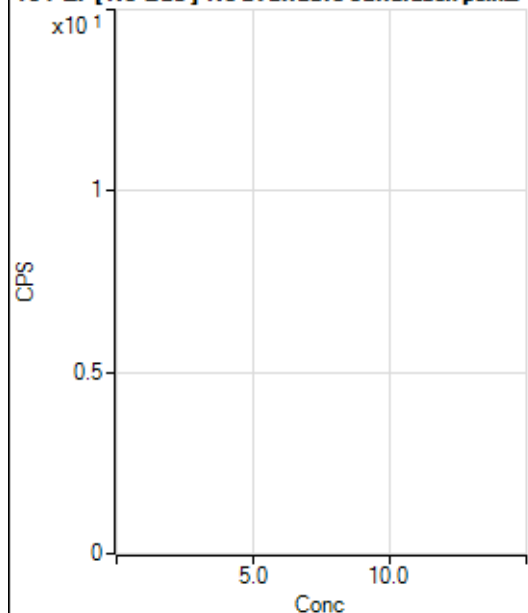
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			10.00		P	66.7
3	☐			22.22		P	69.3
4	☐			44.45		P	8.7
5	☐			82.22		P	28.5
6	☐			138.89		P	12.3
7	☐			334.45		P	8.7
8	☐			142.23		P	12.9

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

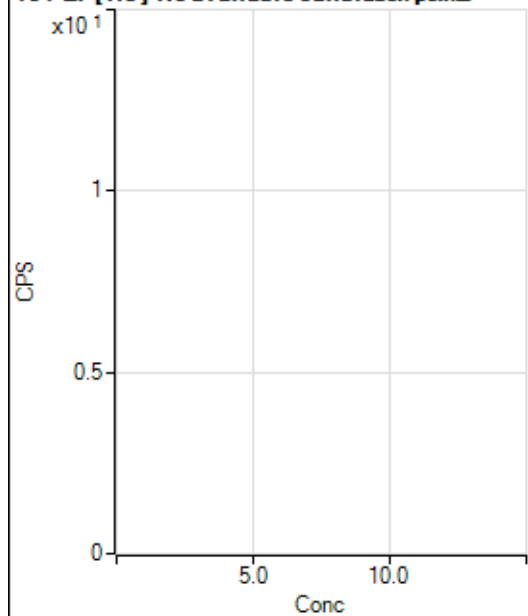
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐			12.22		P	41.7
3	☐			25.55		P	41.9
4	☐			25.55		P	15.1
5	☐			36.67		P	9.1
6	☐			67.78		P	15.8
7	☐			148.89		P	20.8
8	☐			164.45		P	16.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			116.67		P	13.1
2	☐			116.67		P	5.7
3	☐			117.78		P	28.4
4	☐			114.45		P	16.0
5	☐			142.23		P	17.7
6	☐			125.56		P	9.3
7	☐			163.34		P	12.2
8	☐			190.01		P	6.1

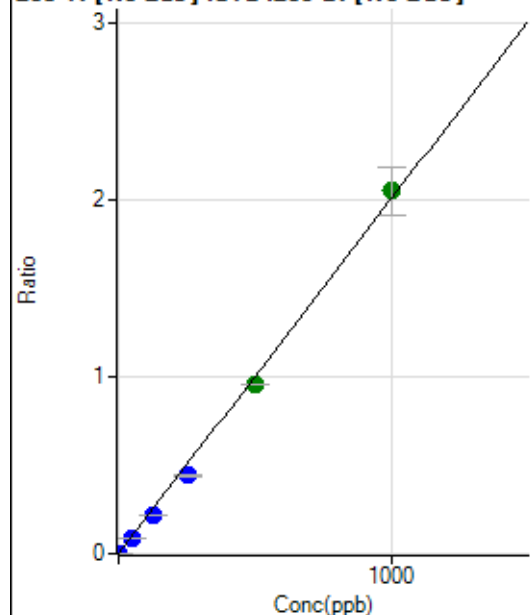
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	56.7
2	☐			18.89		P	44.4
3	☐			17.78		P	60.3
4	☐			32.22		P	41.8
5	☐			44.45		P	30.3
6	☐			77.78		P	6.5
7	☐			128.89		P	26.9
8	☐			202.23		P	14.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			11.11		P	34.6
3	☐			17.78		P	21.7
4	☐			24.44		P	41.7
5	☐			18.89		P	56.7
6	☐			34.44		P	14.8
7	☐			88.89		P	8.7
8	☐			131.12		P	22.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	33.7
2	☐	1.000	0.823	4589.70	0.0017	P	4.1
3	☐	50.000	42.752	238089.81	0.0858	P	1.0
4	☐	125.000	108.593	600731.72	0.2179	P	0.5
5	☐	250.000	219.468	1189226.36	0.4403	P	0.7
6	☐	500.000	477.042	2569775.05	0.9571	A	0.8
7	☐	1000.000	1021.526	5233409.78	2.0496	A	13.3
8	☐			453.35	0.0002	P	16.7

$$y = 0.0020 * x + 5.2278E-006$$

$$R = 0.9991$$

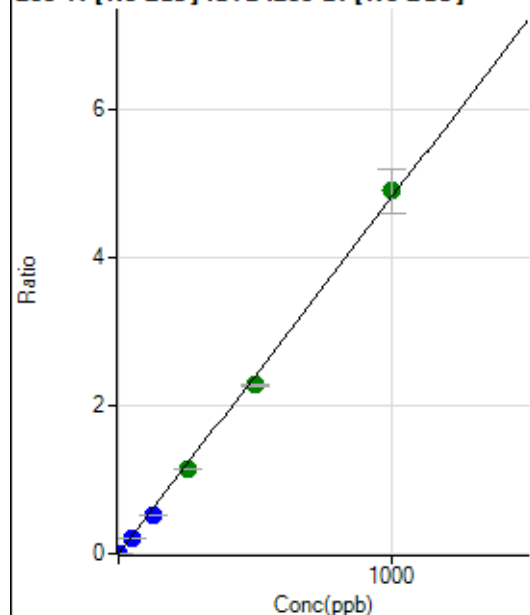
$$DL = 0.002634$$

$$BEC = 0.002606$$

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	56.67	0.0000	P	19.0
2	☐	1.000	0.824	11044.57	0.0040	P	1.6
3	☐	50.000	42.349	566246.44	0.2040	P	1.5
4	☐	125.000	108.192	1436973.43	0.5212	P	1.3
5	☐	250.000	238.391	3101577.39	1.1484	A	1.1
6	☐	500.000	473.251	6120822.62	2.2797	A	0.7
7	☐	1000.000	1018.761	12541183.28	4.9075	A	12.2
8	☐			1100.06	0.0005	P	14.1

$$y = 0.0048 * x + 2.0553E-005$$

$$R = 0.9993$$

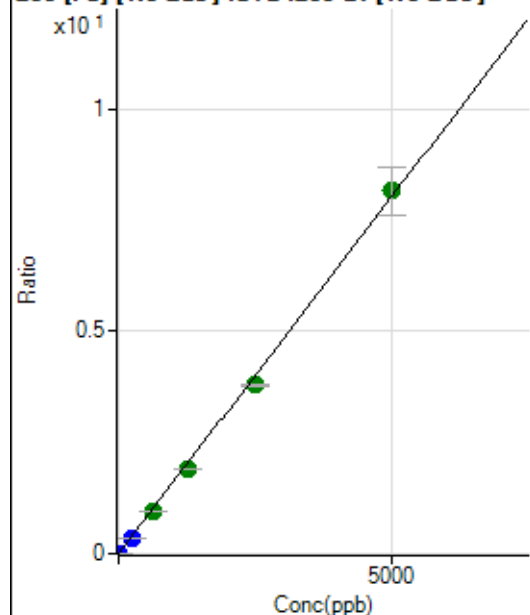
$$DL = 0.002428$$

$$BEC = 0.004267$$

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	114.45	0.0000	P	22.3
2	☐	1.000	0.842	3857.26	0.0014	P	2.4
3	☐	250.000	212.892	948579.32	0.3418	P	1.4
4	☐	625.000	595.000	2633301.30	0.9551	A	1.9
5	☐	1250.000	1197.330	5190805.06	1.9220	A	0.2
6	☐	2500.000	2366.578	10199485.82	3.7988	A	1.0
7	☐	5000.000	5085.484	20849811.91	8.1631	A	12.9
8	☐			3588.29	0.0015	P	4.7

$$y = 0.0016 * x + 4.1469E-005$$

$$R = 0.9994$$

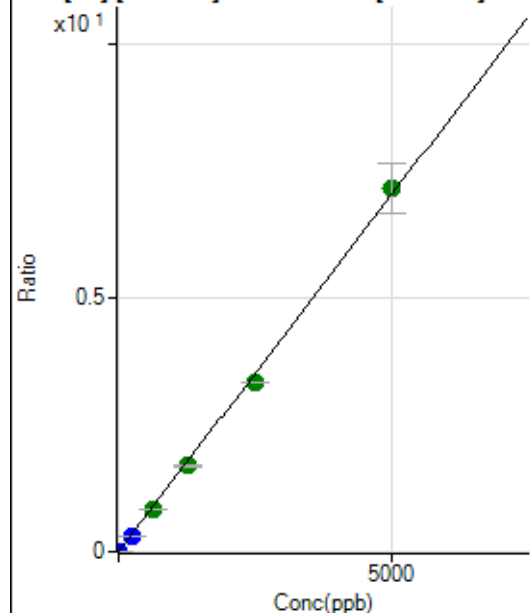
$$DL = 0.01725$$

$$BEC = 0.02583$$

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	91.11	0.0000	P	12.8
2	☐	1.000	0.826	3304.88	0.0012	P	3.1
3	☐	250.000	212.108	826720.76	0.2979	P	1.4
4	☐	625.000	592.797	2295064.88	0.8324	A	0.8
5	☐	1250.000	1200.720	4553640.35	1.6860	A	1.0
6	☐	2500.000	2371.149	8939369.73	3.3295	A	0.8
7	☐	5000.000	5082.665	18214477.36	7.1368	A	13.9
8	☐			3052.60	0.0013	P	8.4

$$y = 0.0014 * x + 3.3144E-005$$

$$R = 0.9995$$

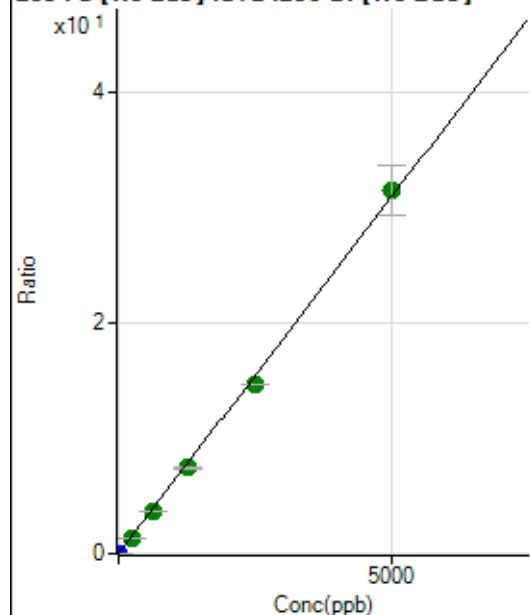
$$DL = 0.009063$$

$$BEC = 0.0236$$

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	447.97	0.0002	P	8.6
2	☐	1.000	0.848	15002.13	0.0054	P	1.3
3	☐	250.000	222.059	3817181.57	1.3753	A	1.0
4	☐	625.000	592.124	10110044.25	3.6669	A	1.0
5	☐	1250.000	1199.706	20065003.03	7.4294	A	0.4
6	☐	2500.000	2368.081	39373080.96	14.6646	A	0.6
7	☐	5000.000	5084.040	80361423.77	31.4832	A	13.7
8	☐			13588.58	0.0058	P	6.4

$$y = 0.0062 * x + 1.6261E-004$$

$$R = 0.9994$$

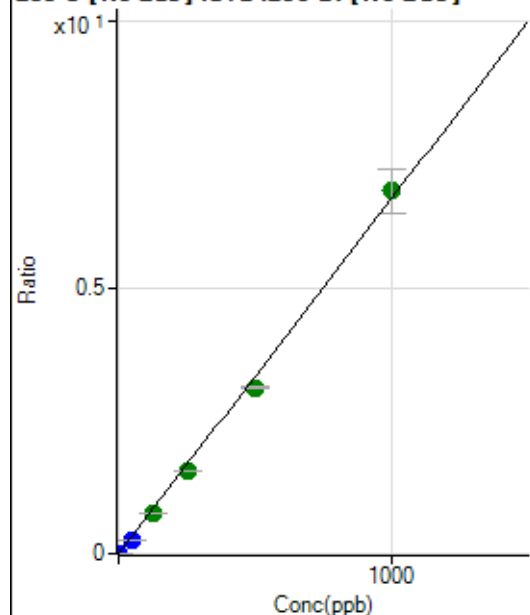
$$DL = 0.0068$$

$$BEC = 0.02626$$

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	3.33	0.0000	P	101.
2	☐	1.000	0.787	14553.61	0.0053	P	1.3
3	☐	50.000	39.725	735920.62	0.2651	P	0.8
4	☐	125.000	113.675	2091814.88	0.7587	A	1.0
5	☐	250.000	232.973	4199484.10	1.5549	A	0.1
6	☐	500.000	468.374	8393108.76	3.1261	A	1.2
7	☐	1000.000	1021.999	17427651.54	6.8211	A	12.5
8	☐			607.80	0.0003	P	21.0

$$y = 0.0067 * x + 1.2207E-006$$

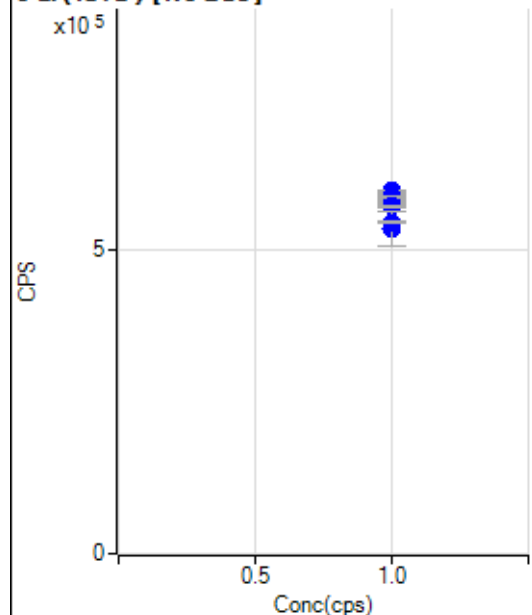
$$R = 0.9991$$

$$DL = 0.0005553$$

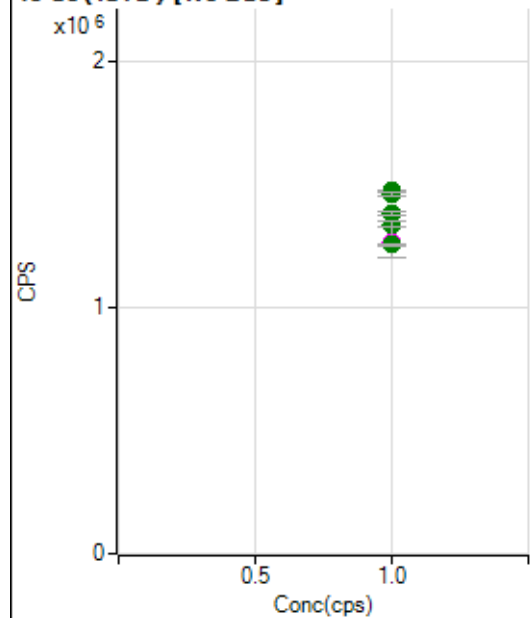
$$BEC = 0.0001829$$

Weight: <None>

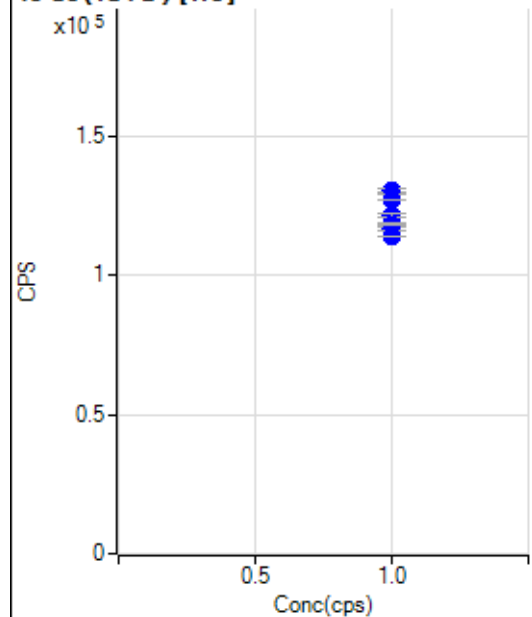
Min Conc: 0

6 Li (ISTD) [No Gas]

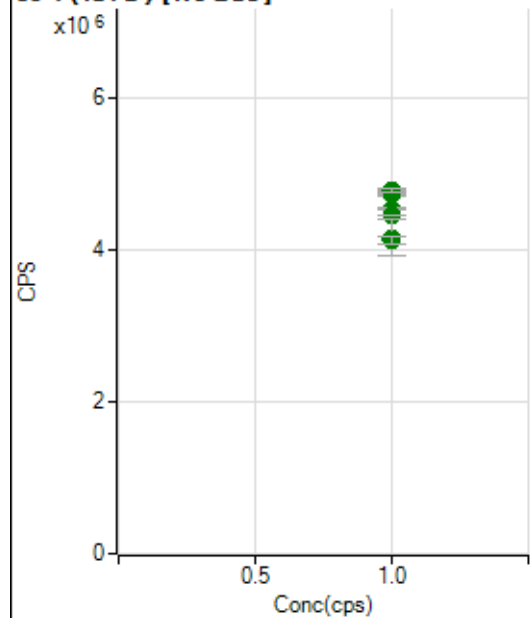
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		576002.72		P	0.8
2	☐	1.000		582858.35		P	0.4
3	☐	1.000		595343.19		P	0.7
4	☐	1.000		598454.08		P	0.7
5	☐	1.000		588917.22		P	0.9
6	☐	1.000		572582.92		P	0.4
7	☐	1.000		536613.08		P	10.8
8	☐	1.000		545747.27		P	0.6

45 Sc (ISTD) [No Gas]

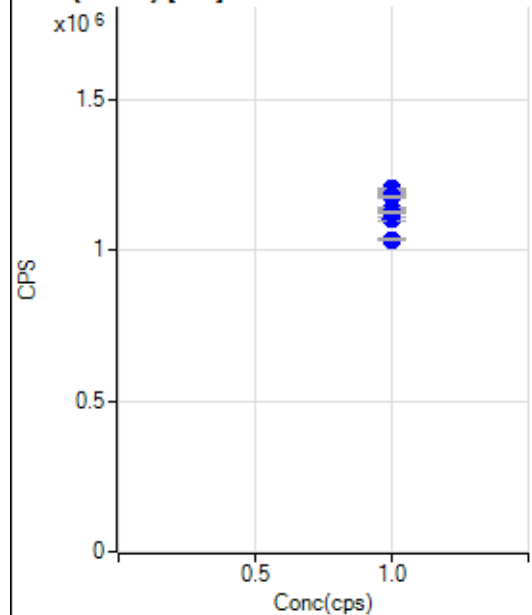
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1471246.75		A	0.1
2	☐	1.000		1462582.98		A	1.2
3	☐	1.000		1460507.34		A	1.3
4	☐	1.000		1459095.19		A	1.3
5	☐	1.000		1379080.64		A	1.3
6	☐	1.000		1333936.86		A	1.8
7	☐	1.000		1265188.87		M	9.9
8	☐	1.000		1252404.84		A	0.6

45 Sc (ISTD) [He]

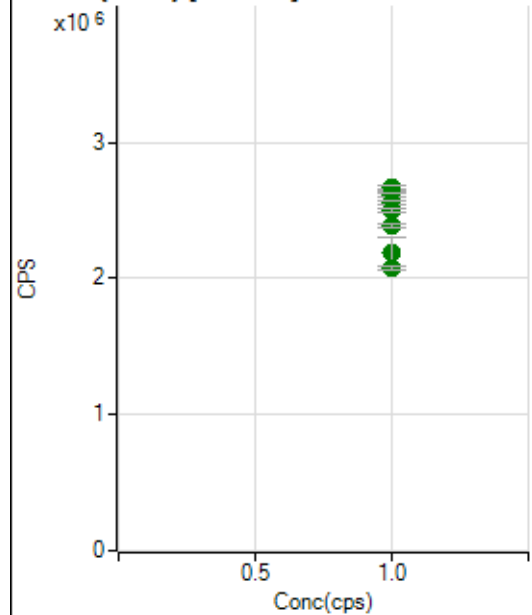
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		129248.69		P	0.8
2	☐	1.000		130167.53		P	1.4
3	☐	1.000		129101.79		P	0.3
4	☐	1.000		126913.41		P	0.4
5	☐	1.000		121470.74		P	1.2
6	☐	1.000		116751.99		P	1.3
7	☐	1.000		118269.05		P	0.3
8	☐	1.000		113861.17		P	0.4

89 Y (ISTD) [No Gas]

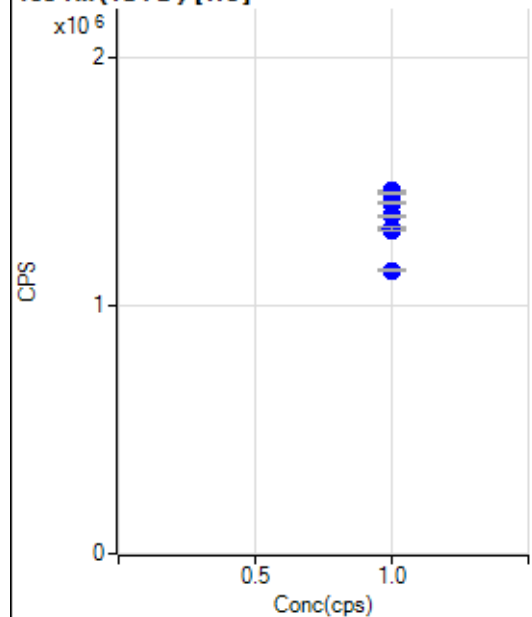
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4731302.22		A	0.9
2	☐	1.000		4782186.18		A	0.5
3	☐	1.000		4758559.20		A	0.7
4	☐	1.000		4779094.27		A	1.1
5	☐	1.000		4546790.73		A	0.4
6	☐	1.000		4468155.38		A	0.1
7	☐	1.000		4169589.66		A	11.0
8	☐	1.000		4137730.04		A	2.4

89 Y(ISTD) [He]

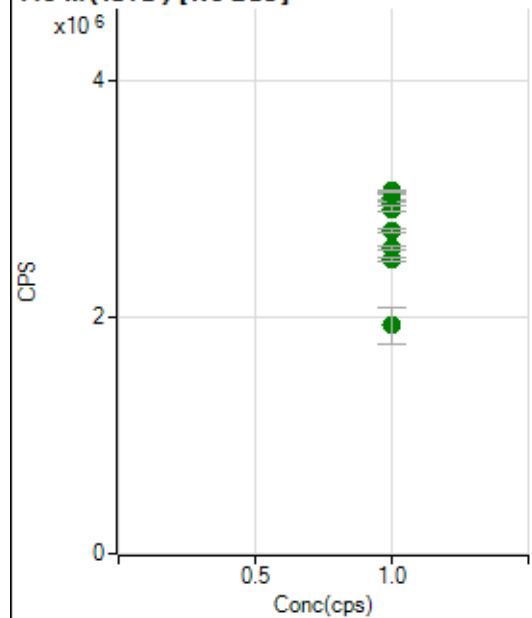
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1189358.70		P	0.8
2	☐	1.000		1204720.30		P	0.3
3	☐	1.000		1202759.66		P	0.6
4	☐	1.000		1178672.19		P	0.2
5	☐	1.000		1139651.62		P	0.4
6	☐	1.000		1104620.13		P	0.8
7	☐	1.000		1125115.48		P	0.5
8	☐	1.000		1036943.40		P	0.7

103 Rh(ISTD) [No Gas]

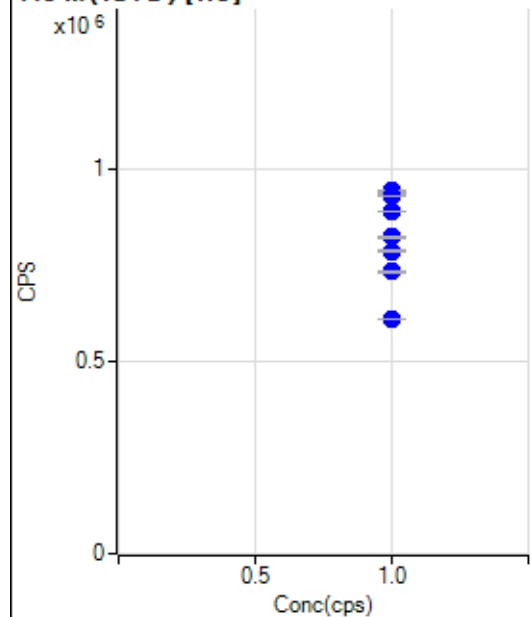
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2638013.55		A	0.8
2	☐	1.000		2663740.39		A	1.4
3	☐	1.000		2605713.17		A	1.1
4	☐	1.000		2551528.37		A	0.9
5	☐	1.000		2500226.81		A	0.9
6	☐	1.000		2385252.64		A	1.4
7	☐	1.000		2184899.90		A	11.1
8	☐	1.000		2073446.64		A	1.0

103 Rh (ISTD) [He]

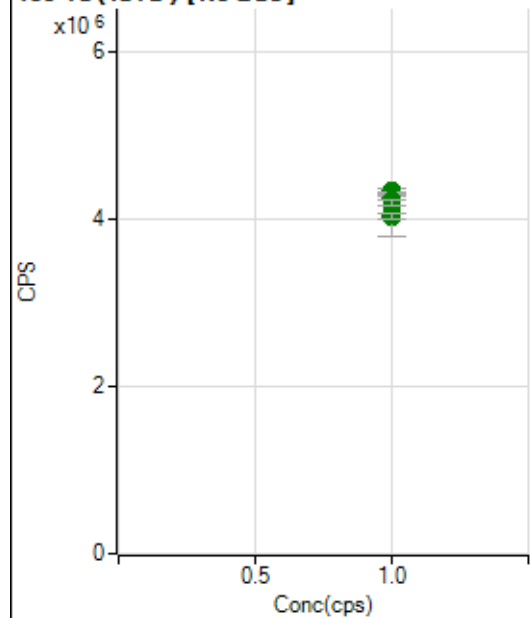
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1450480.17		P	0.1
2	☐	1.000		1463759.29		P	0.5
3	☐	1.000		1453469.86		P	0.4
4	☐	1.000		1415003.69		P	0.7
5	☐	1.000		1363198.92		P	0.8
6	☐	1.000		1306797.63		P	1.1
7	☐	1.000		1311757.67		P	0.8
8	☐	1.000		1141993.25		P	0.6

115 In (ISTD) [No Gas]

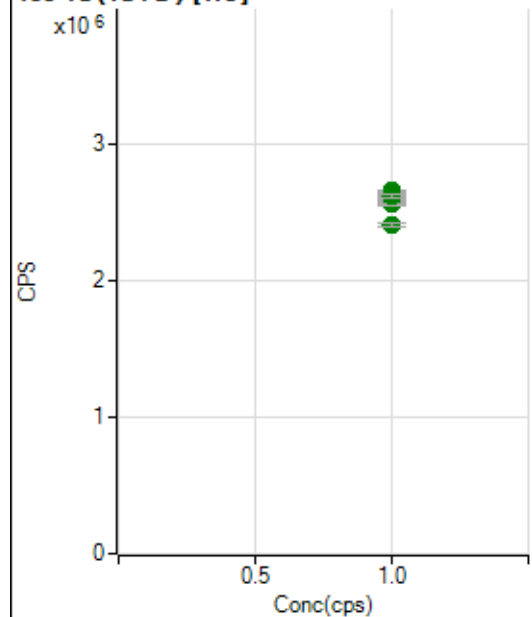
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3011297.26		A	1.4
2	☐	1.000		3063710.45		A	0.6
3	☐	1.000		2952746.46		A	1.0
4	☐	1.000		2913724.96		A	1.3
5	☐	1.000		2729233.13		A	1.4
6	☐	1.000		2488358.67		A	1.2
7	☐	1.000		1927006.45		A	15.8
8	☐	1.000		2582184.43		A	0.9

115 In (ISTD) [He]

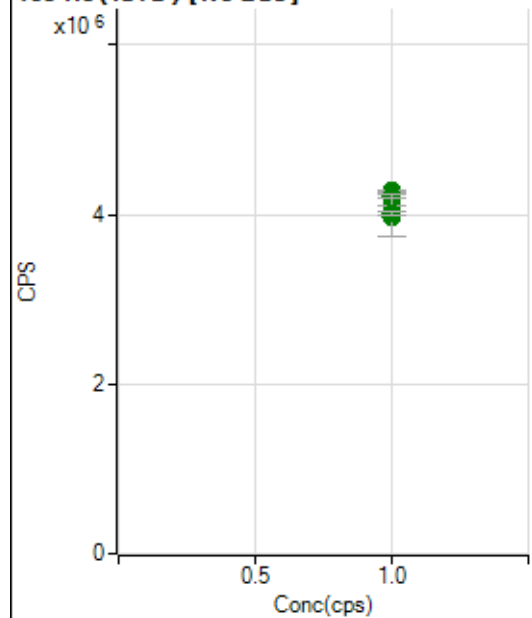
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		935085.20		P	0.2
2	☐	1.000		943149.66		P	0.5
3	☐	1.000		929286.22		P	0.3
4	☐	1.000		889197.76		P	0.3
5	☐	1.000		823979.67		P	0.5
6	☐	1.000		732502.69		P	1.1
7	☐	1.000		610475.00		P	0.5
8	☐	1.000		786880.77		P	0.6

159 Tb (ISTD) [No Gas]

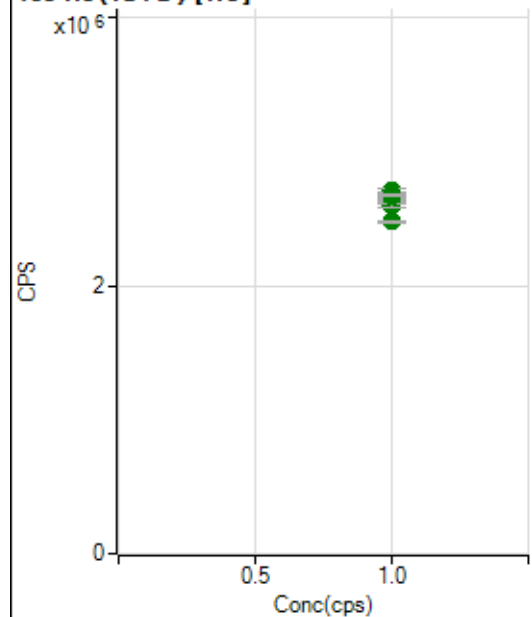
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4250968.86		A	1.1
2	☐	1.000		4316081.15		A	1.0
3	☐	1.000		4340973.20		A	1.0
4	☐	1.000		4320287.19		A	0.5
5	☐	1.000		4234839.31		A	0.4
6	☐	1.000		4165589.76		A	0.5
7	☐	1.000		4021132.02		A	10.7
8	☐	1.000		4045348.13		A	1.8

159 Tb (ISTD) [He]

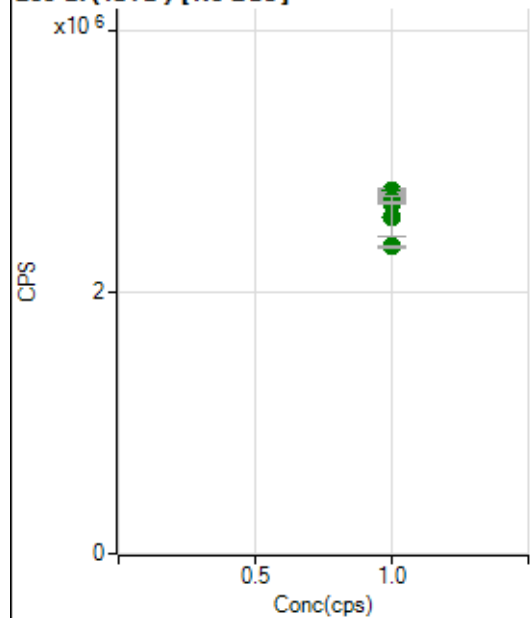
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2588371.87		A	0.9
2	☐	1.000		2633129.98		A	1.2
3	☐	1.000		2652299.04		A	0.4
4	☐	1.000		2629418.31		A	0.6
5	☐	1.000		2590522.52		A	0.3
6	☐	1.000		2551662.84		A	0.5
7	☐	1.000		2618602.83		A	1.3
8	☐	1.000		2404985.26		A	0.9

165 Ho (ISTD) [No Gas]

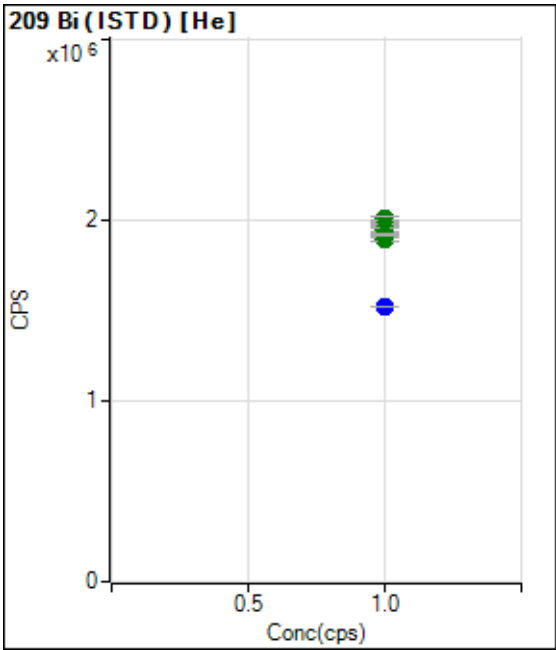
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4258483.51		A	0.2
2	☐	1.000		4265981.64		A	0.2
3	☐	1.000		4256386.57		A	0.8
4	☐	1.000		4276720.46		A	0.7
5	☐	1.000		4215280.35		A	0.9
6	☐	1.000		4104880.25		A	0.5
7	☐	1.000		3962975.25		A	11.2
8	☐	1.000		4004754.98		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2634004.54		A	0.6
2	☐	1.000		2672238.57		A	1.2
3	☐	1.000		2707575.07		A	1.1
4	☐	1.000		2686464.02		A	0.8
5	☐	1.000		2637080.03		A	0.6
6	☐	1.000		2598528.30		A	1.5
7	☐	1.000		2675606.42		A	1.0
8	☐	1.000		2481036.70		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2752796.28		A	1.8
2	☐	1.000		2770024.33		A	0.7
3	☐	1.000		2775717.18		A	0.9
4	☐	1.000		2757178.57		A	0.4
5	☐	1.000		2700764.54		A	0.5
6	☐	1.000		2684909.63		A	0.1
7	☐	1.000		2580117.84		A	11.7
8	☐	1.000		2347159.69		A	0.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1971327.96		A	1.1
2	☐	1.000		1981748.46		A	0.8
3	☐	1.000		2010333.18		A	1.0
4	☐	1.000		1976117.44		A	0.5
5	☐	1.000		1952611.67		A	1.0
6	☐	1.000		1898307.47		A	1.2
7	☐	1.000		1922474.84		A	0.6
8	☐	1.000		1523140.91		P	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7101524-MS5.b
Acq. Date-Time 2024-10-15 17:54:34
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		1542	15422.58			0.575	5.000
24		55494	554943.77			0.302	5.000
25		6999	69992.50			0.522	5.000
26		7857	78573.76			0.582	5.000
59		14182	141815.24			0.331	5.000
113		1321	13214.67			0.495	5.000
115		29531	295308.07			0.212	5.000
206		7638	76376.98			0.737	5.000
207		6486	64861.60			0.592	5.000
208		15757	157568.99			0.793	5.000
220		0	2.40			17.431	

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

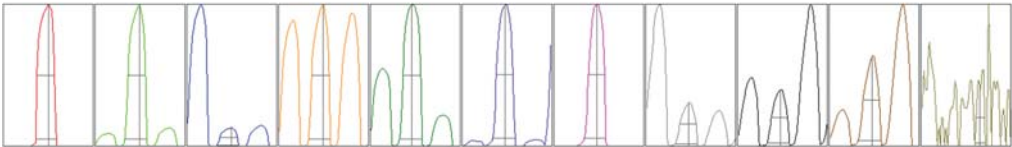
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1544	1537	1557	1535	1539
24	55345	55514	55441	55399	55773
25	6966	6973	6999	7000	7059
26	7781	7865	7904	7871	7867
59	14174	14181	14228	14108	14216
113	1312	1318	1323	1327	1328
115	29422	29562	29535	29563	29573
206	7564	7642	7686	7600	7697
207	6425	6478	6491	6513	6524
208	15559	15781	15739	15808	15897

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	2802.43	9.05	8.90 - 9.10	
24	99280.48	24.00	23.90 - 24.10	
25	12737.31	25.00	24.90 - 25.10	
26	14271.22	26.00	25.90 - 26.10	
59	24445.32	58.90	58.90 - 59.10	
113	2497.56	112.95	112.90 - 113.10	
115	56488.76	114.95	114.90 - 115.10	
206	14665.22	205.95	205.90 - 206.10	
207	12098.55	206.95	206.90 - 207.10	
208	30162.42	207.95	207.90 - 208.10	
220	0.30	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.688	0.900	
24	0.59	0.737	0.900	
25	0.58	0.729	0.900	
26	0.59	0.736	0.900	
59	0.60	0.762	0.900	
113	0.55	0.759	0.900	
115	0.53	0.732	0.900	
206	0.55	0.747	0.900	
207	0.54	0.741	0.900	
208	0.54	0.771	0.900	
220	0.29	0.344		

Integration Time [sec] 0.1
Acquisition Time [sec] 256.770000000002
Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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	8.1 V	Deflect	17.0 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	190 V		

QP Parameters

Mass Gain	135	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.6 mm
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EM

Discriminator	4.8 mV	Analog HV	2399 V	Pulse HV	1788 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4711	47111.99			0.695	
89		46324	463241.24			0.650	
205		16370	163703.43			1.029	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4762	4682	4697	4691	4724
89	46778	45985	46220	46195	46443
205	16576	16228	16221	16302	16525

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	8.4 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-100.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	0.11		
Hardware Settings					
Torch					
Torch H	-0.5 mm	Torch V	0.6 mm		
EM					
Discriminator	4.8 mV	Analog HV	2399 V	Pulse HV	1788 V