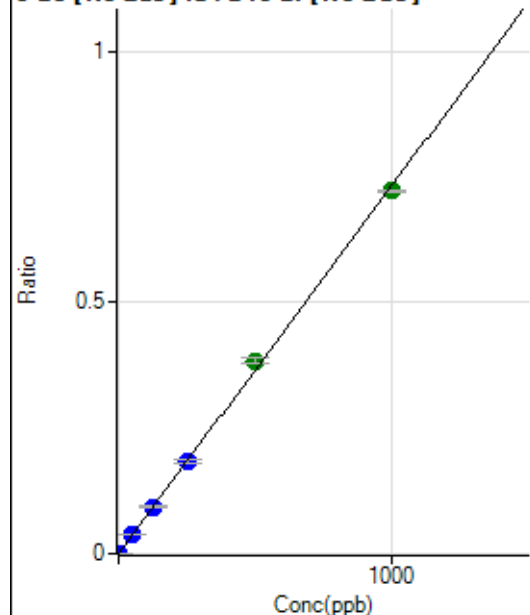


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8101321MS.b\
Analysis File: P8101321MS.batch.bin
DA Date-Time: 2021-10-13 19:31:24
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2021-10-13 12:35:34
2	007CALS.d	S02	2021-10-13 12:41:43
3	008CALS.d	S03	2021-10-13 12:44:49
4	009CALS.d	S04	2021-10-13 12:47:52
5	010CALS.d	S05	2021-10-13 12:50:58
6	012CALS.d	S06	2021-10-13 12:57:22
7	013CALS.d	S07	2021-10-13 13:00:25
8	014CALS.d	S08	2021-10-13 13:03:31

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39.99	0.0000	P	19.8
2	☐	1.000	1.026	2383.73	0.0008	P	0.6
3	☐	50.000	50.670	118785.79	0.0371	P	3.1
4	☐	125.000	125.918	295914.40	0.0922	P	4.6
5	☐	250.000	250.375	588385.16	0.1834	P	4.5
6	☐	500.000	525.372	1160145.33	0.3847	A	3.6
7	☐	1000.000	987.072	2273465.92	0.7229	A	0.4
8	☐			231.29	0.0001	P	6.4

$$y = 7.3231\text{E-}004 * x + 1.2638\text{E-}005$$

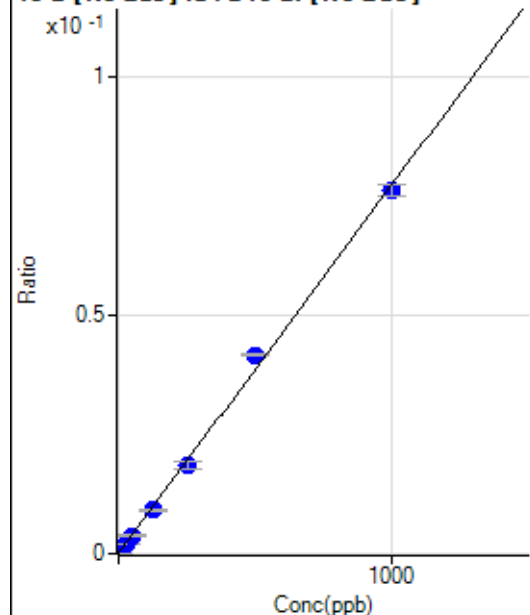
$$R = 0.9995$$

$$DL = 0.01024$$

$$BEC = 0.01726$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	273.95	0.0001	P	12.4
2	☐	25.000	24.450	6165.44	0.0020	P	5.5
3	☐	50.000	48.321	12227.37	0.0038	P	5.3
4	☐	125.000	116.754	29246.66	0.0091	P	5.1
5	☐	250.000	238.612	59403.05	0.0185	P	7.9
6	☐	500.000	538.508	125862.81	0.0417	P	0.9
7	☐	1000.000	984.721	239677.65	0.0762	P	3.1
8	☐			27478.30	0.0092	P	9.2

$$y = 7.7280\text{E-}005 * x + 8.6458\text{E-}005$$

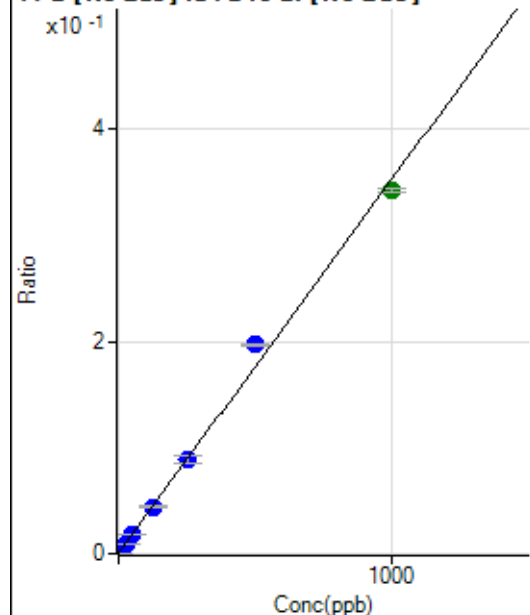
$$R = 0.9988$$

$$DL = 0.4159$$

$$BEC = 1.119$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1339.14	0.0004	P	5.2
2	☐	25.000	25.152	28934.14	0.0093	P	6.4
3	☐	50.000	51.000	58788.52	0.0184	P	5.6
4	☐	125.000	124.737	142260.45	0.0443	P	5.0
5	☐	250.000	252.332	286006.49	0.0892	P	8.2
6	☐	500.000	558.518	594330.90	0.1969	P	0.7
7	☐	1000.000	970.137	1074994.47	0.3418	A	1.2
8	☐			131039.52	0.0438	P	8.6

$$y = 3.5186E-004 * x + 4.2166E-004$$

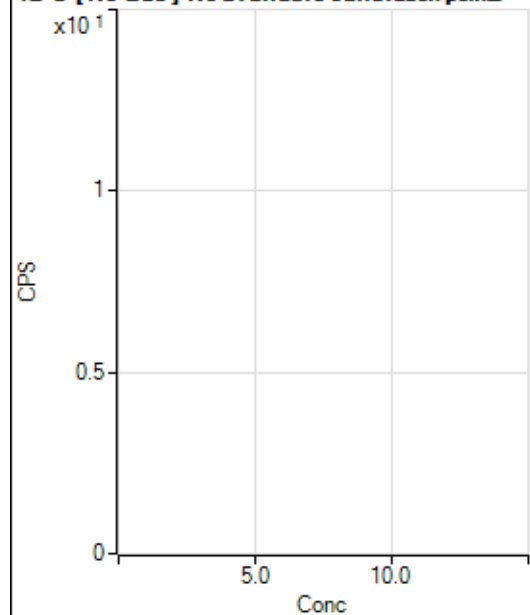
$$R = 0.9974$$

$$DL = 0.1867$$

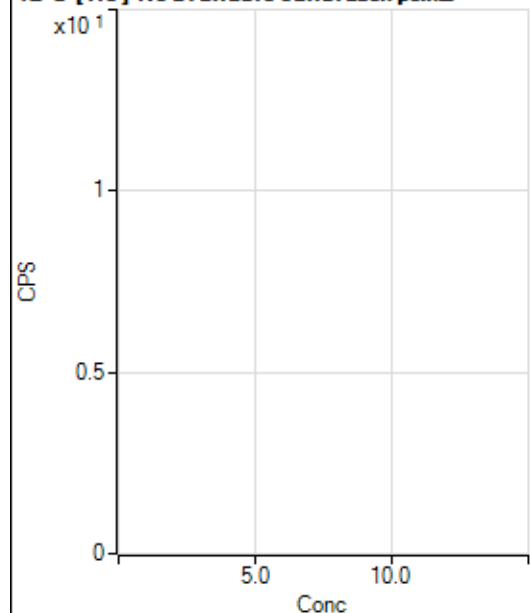
$$BEC = 1.198$$

Weight: <None>

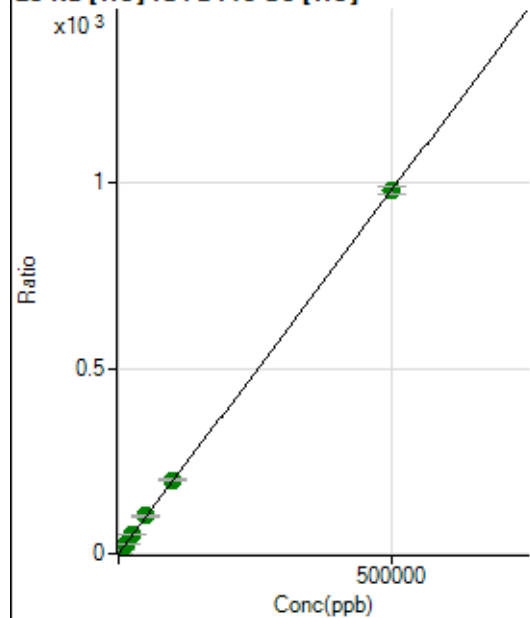
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5860831.77		A	1.8
2	☐			5982317.28		A	0.1
3	☐			6399120.41		A	2.7
4	☐			6431833.69		A	1.4
5	☐			6479828.71		A	0.4
6	☐			6811737.09		A	3.6
7	☐			7316349.90		A	2.2
8	☐			6920419.08		A	1.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			62689.88		P	0.4
2	☐			64294.17		P	1.5
3	☐			66481.71		P	0.3
4	☐			69119.04		P	1.1
5	☐			69632.43		P	0.5
6	☐			73054.49		P	1.1
7	☐			80861.65		P	1.1
8	☐			85023.77		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23967.46	0.1032	P	1.9
2	☐	500.000	524.383	261950.46	1.1309	P	1.5
3	☐	5000.000	5275.311	2430614.66	10.4420	A	2.8
4	☐	12500.000	13089.647	5925479.56	25.7570	A	0.9
5	☐	25000.000	26083.655	11778259.81	51.2235	A	1.2
6	☐	50000.000	51852.906	23042453.47	101.7276	A	1.1
7	☐	100000.00	101188.05	45156846.84	198.4176	A	1.5
8	☐	500000.00	499505.39	229735463.4	979.0639	A	2.2

$$y = 0.0020 * x + 0.1032$$

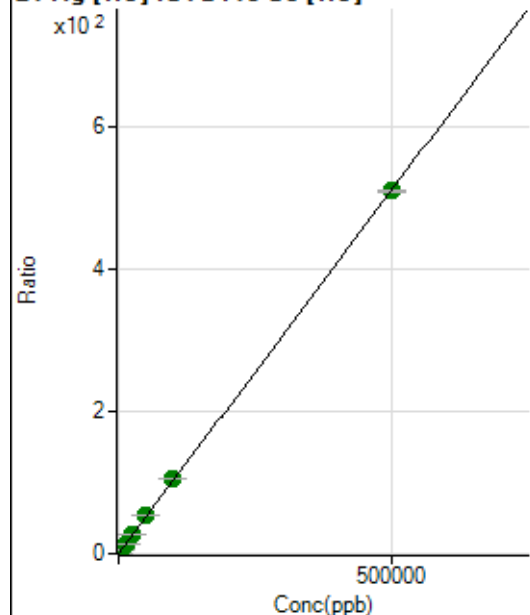
$$R = 1.0000$$

$$DL = 2.984$$

$$BEC = 52.63$$

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	1127.85	0.0049	P	8.6
2	☐	500.000	522.184	124398.93	0.5370	P	0.4
3	☐	5000.000	5425.750	1288283.76	5.5344	A	2.4
4	☐	12500.000	13397.682	3142036.66	13.6588	A	1.8
5	☐	25000.000	26202.325	6141168.10	26.7083	A	0.4
6	☐	50000.000	51950.547	11993856.52	52.9489	A	1.0
7	☐	100000.00	102482.35	23771173.45	104.4471	A	1.0
8	☐	500000.00	499221.63	119403627.6	508.7738	A	0.6

$$y = 0.0010 * x + 0.0049$$

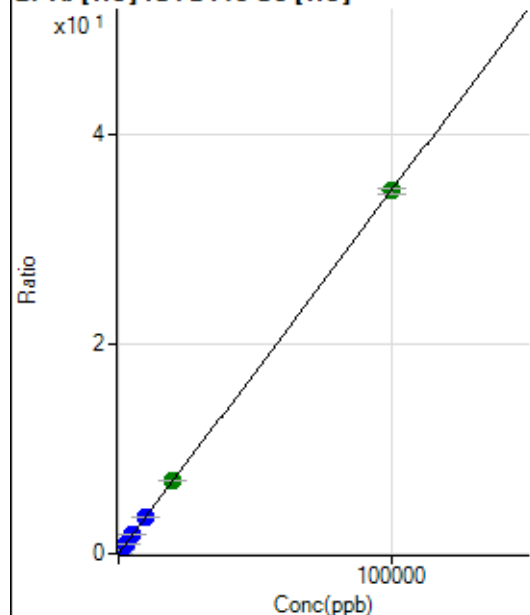
$$R = 1.0000$$

$$DL = 1.233$$

$$BEC = 4.76$$

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	1614.06	0.0069	P	2.8
2	☐	20.000	22.948	3447.07	0.0149	P	2.2
3	☐	1000.000	1038.286	85198.68	0.3660	P	1.6
4	☐	2500.000	2590.903	207689.67	0.9029	P	1.6
5	☐	5000.000	5134.695	409852.90	1.7825	P	0.4
6	☐	10000.000	10185.899	799386.00	3.5291	P	0.7
7	☐	20000.000	20268.768	1596666.54	7.0157	A	1.0
8	☐	100000.00	99918.266	8109053.15	34.5576	A	1.9

$$y = 3.4579E-004 * x + 0.0069$$

$$R = 1.0000$$

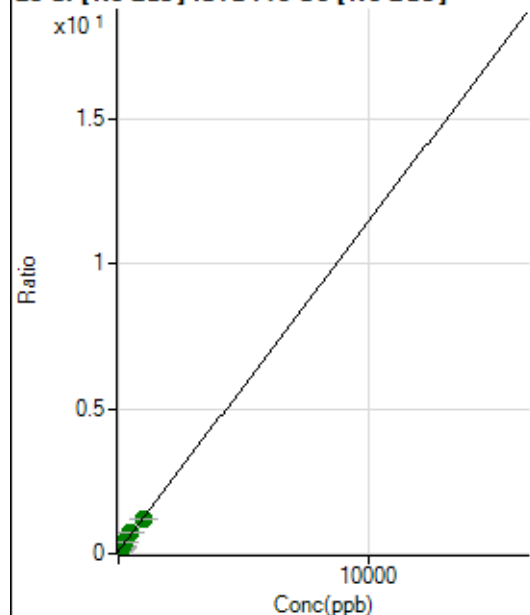
$$DL = 1.705$$

$$BEC = 20.09$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	568263.09	0.0877	P	1.4
2	☐	10.000	10.955	651470.74	0.1002	P	1.6
3	☐	50.000	55.031	1003989.81	0.1502	A	3.3
4	☐	125.000	129.007	1533571.03	0.2341	A	3.4
5	☐	250.000	255.614	2497070.93	0.3778	A	2.1
6	☐	500.000	580.707	4688583.31	0.7467	A	3.1
7	☐	1000.000	957.481	7767974.91	1.1742	A	1.9
8	☐			980132.96	0.1510	A	2.1

$$y = 0.0011 * x + 0.0877$$

R = 0.9950

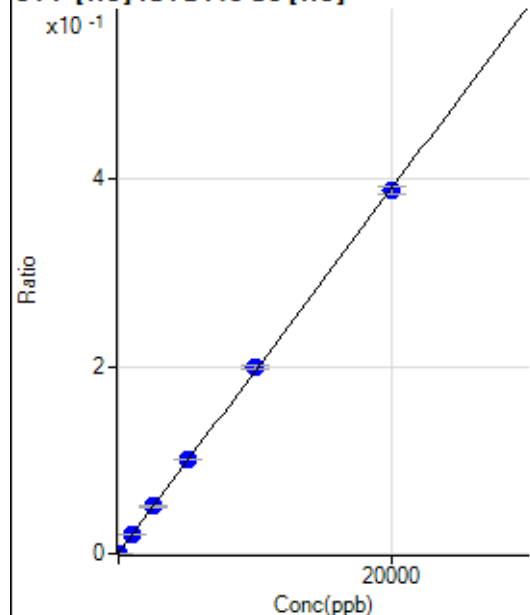
DL = 3.33

BEC = 77.31

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-0.681	166.67	0.0007	P	17.7
2	☐	0.000	0.681	172.23	0.0007	P	35.0
3	☐	1000.000	1020.577	4792.58	0.0206	P	4.2
4	☐	2500.000	2568.420	11660.56	0.0507	P	5.0
5	☐	5000.000	5121.488	23077.08	0.1004	P	0.6
6	☐	10000.000	10182.121	45034.89	0.1988	P	1.7
7	☐	20000.000	19868.986	88126.44	0.3873	P	2.3
8	☐			155.56	0.0007	P	11.5

$$y = 1.9454E-005 * x + 7.3022E-004$$

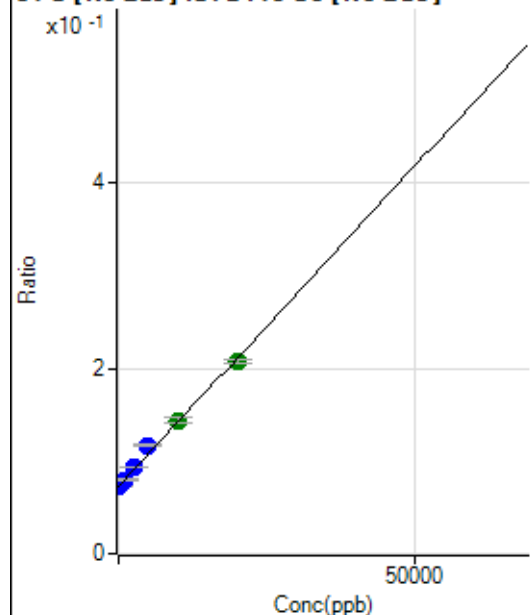
R = 0.9999

DL = 29.86

BEC = 37.54

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	49.258	473496.08	0.0731	P	2.4
2	☐	0.000	-49.258	471029.91	0.0724	P	2.1
3	☐	1000.000	996.179	532540.07	0.0797	P	2.6
4	☐	2500.000	3005.230	613230.80	0.0936	P	1.2
5	☐	5000.000	6335.027	771291.42	0.1167	P	2.0
6	☐	10000.000	10304.898	904994.99	0.1443	A	3.2
7	☐	20000.000	19450.832	1374061.65	0.2077	A	2.6
8	☐			410739.65	0.0633	P	2.8

$$y = 6.9396\text{E-}006 * x + 0.0728$$

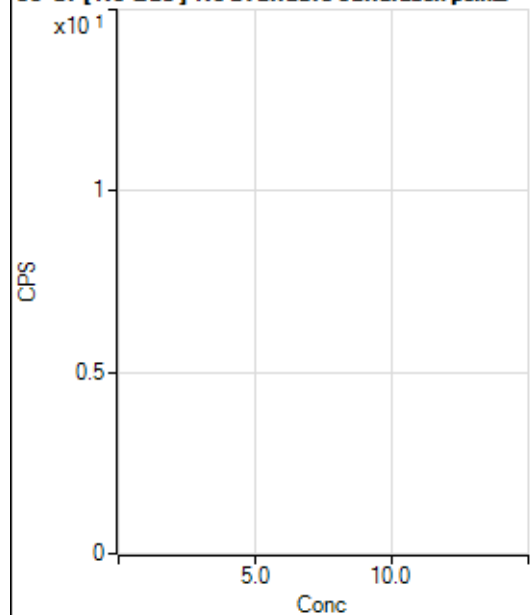
$$R = 0.9970$$

$$DL = 701.3$$

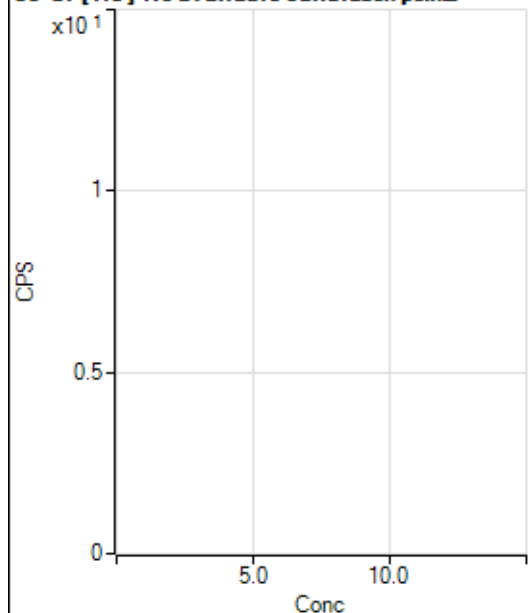
$$BEC = 1.049\text{E}+04$$

Weight: <None>

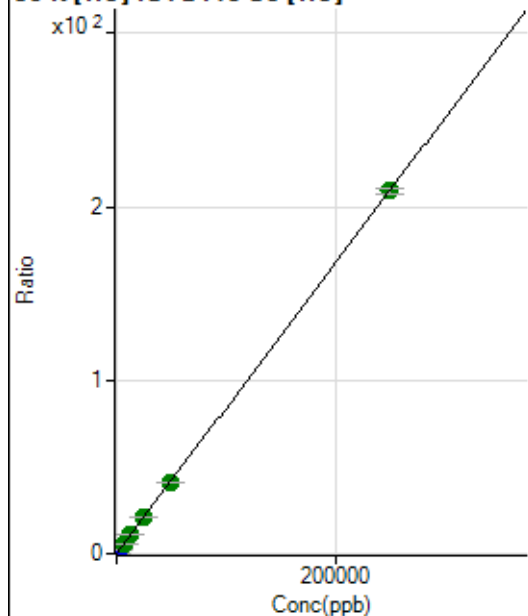
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			747042.64		P	2.1
2	☐			683182.77		P	2.6
3	☐			704268.00		P	1.7
4	☐			686004.27		P	1.4
5	☐			679866.79		P	1.3
6	☐			659545.11		P	1.8
7	☐			674555.77		P	0.5
8	☐			619041.25		P	3.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4959.30		P	1.0
2	☐			4731.45		P	5.7
3	☐			5317.79		P	1.8
4	☐			4945.41		P	4.0
5	☐			4659.19		P	5.7
6	☐			4589.74		P	2.0
7	☐			4550.84		P	1.9
8	☐			4498.04		P	7.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22754.52	0.0979	P	2.9
2	☐	500.000	510.753	121575.99	0.5249	P	1.4
3	☐	2500.000	2594.408	527635.01	2.2664	P	1.5
4	☐	6250.000	6455.689	1263741.98	5.4938	A	2.9
5	☐	12500.000	12828.565	2488165.62	10.8205	A	2.7
6	☐	25000.000	25104.327	4775312.65	21.0811	A	1.5
7	☐	50000.000	49289.433	9398516.79	41.2959	A	0.6
8	☐	250000.00	250109.14	49087109.09	209.1483	A	1.4

$$y = 8.3584E-004 * x + 0.0979$$

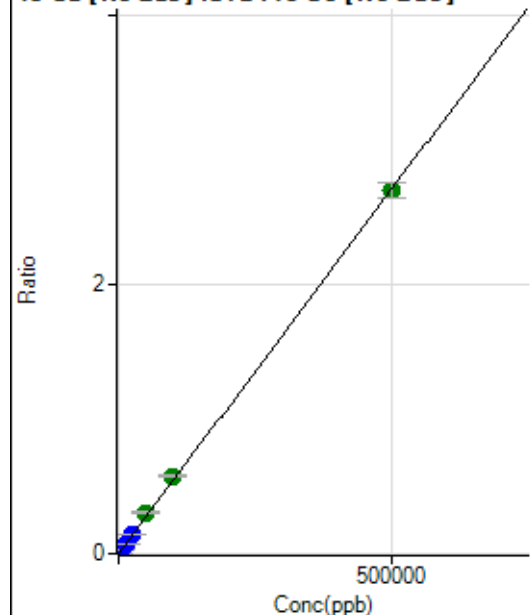
$$R = 1.0000$$

$$DL = 10.36$$

$$BEC = 117.2$$

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	503.28	0.0001	P	7.7
2	☐	500.000	497.722	18015.27	0.0028	P	1.5
3	☐	5000.000	5167.337	187338.18	0.0280	P	2.0
4	☐	12500.000	13214.422	468696.61	0.0716	P	1.4
5	☐	25000.000	26306.926	940793.12	0.1424	P	0.7
6	☐	50000.000	56416.397	1913158.21	0.3052	A	5.4
7	☐	100000.00	106800.53	3821968.51	0.5777	A	1.4
8	☐	500000.00	497913.37	17474191.17	2.6932	A	4.2

$$y = 5.4088\text{E-}006 * x + 7.7624\text{E-}005$$

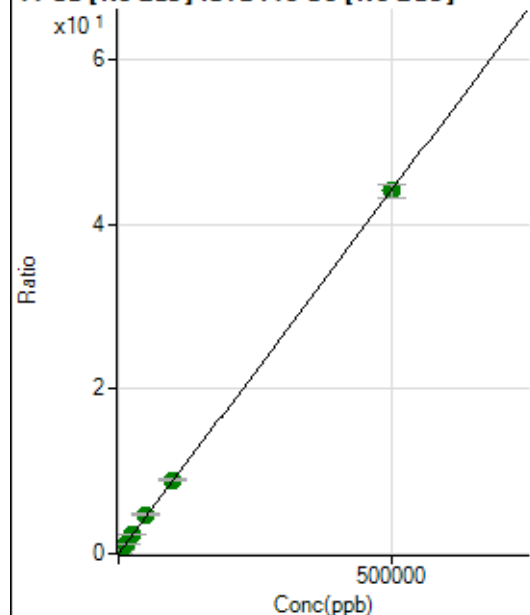
$$R = 0.9998$$

$$DL = 3.318$$

$$BEC = 14.35$$

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	50067.22	0.0077	P	1.3
2	☐	500.000	501.457	338439.65	0.0520	P	1.2
3	☐	5000.000	5144.733	3090611.57	0.4622	A	0.4
4	☐	12500.000	12768.072	7439932.68	1.1357	A	0.5
5	☐	25000.000	25960.416	15208143.17	2.3012	A	0.3
6	☐	50000.000	53415.850	29631747.75	4.7268	A	5.0
7	☐	100000.00	101798.82	59540765.42	9.0012	A	1.9
8	☐	500000.00	499242.48	286230165.0	44.1136	A	3.5

$$y = 8.8346\text{E-}005 * x + 0.0077$$

$$R = 1.0000$$

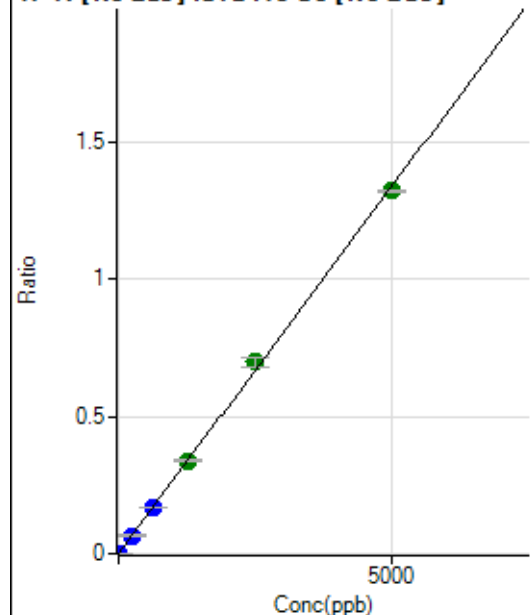
$$DL = 3.33$$

$$BEC = 87.49$$

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	658.37	0.0001	P	10.4
2	☐	5.000	5.068	9483.91	0.0015	P	5.3
3	☐	250.000	246.665	442095.54	0.0661	P	1.9
4	☐	625.000	622.164	1091962.22	0.1667	P	1.5
5	☐	1250.000	1261.479	2232488.68	0.3378	A	1.6
6	☐	2500.000	2608.539	4378490.42	0.6984	A	5.0
7	☐	5000.000	4943.382	8756618.77	1.3235	A	0.6
8	☐			1447.34	0.0002	P	5.7

$$y = 2.6772E-004 * x + 1.0172E-004$$

R = 0.9996

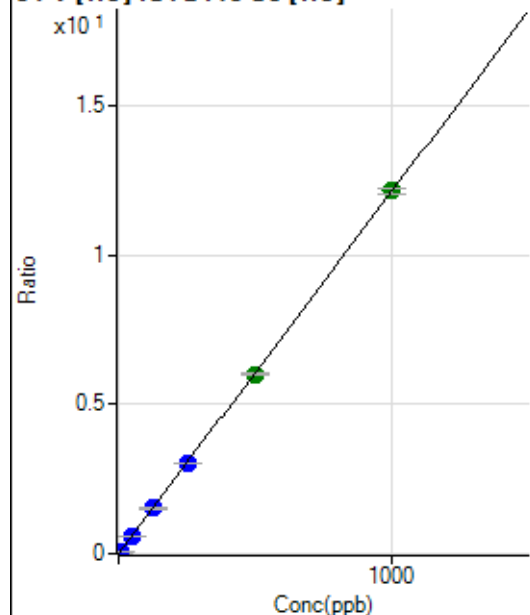
DL = 0.1188

BEC = 0.38

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	143.33	0.0006	P	21.4
2	☐	5.000	5.151	14608.68	0.0631	P	2.0
3	☐	50.000	49.702	140436.31	0.6032	P	0.4
4	☐	125.000	125.245	349440.52	1.5190	P	1.4
5	☐	250.000	247.307	689525.88	2.9988	P	0.2
6	☐	500.000	496.061	1362344.91	6.0146	A	1.4
7	☐	1000.000	1002.626	2766377.04	12.1559	A	1.9
8	☐			320.01	0.0014	P	4.6

$$y = 0.0121 * x + 6.1600E-004$$

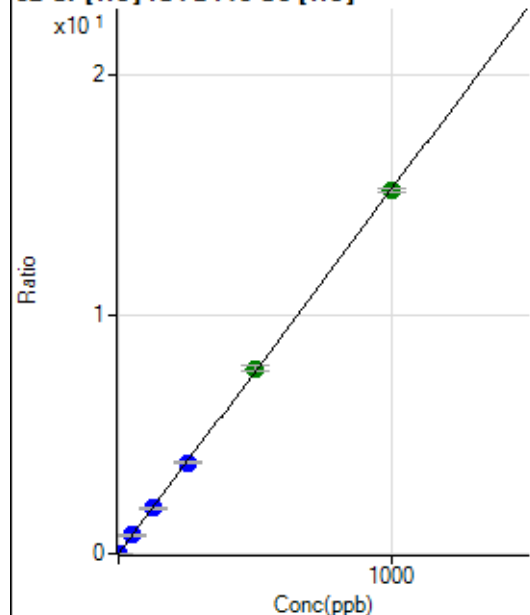
R = 1.0000

DL = 0.03259

BEC = 0.05081

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	1191.17	0.0051	P	7.3
2	☐	2.000	2.043	8386.99	0.0362	P	1.4
3	☐	50.000	50.010	178336.42	0.7660	P	1.1
4	☐	125.000	124.392	436580.48	1.8978	P	1.3
5	☐	250.000	249.804	875096.83	3.8060	P	0.5
6	☐	500.000	508.980	1755380.58	7.7494	A	3.0
7	☐	1000.000	995.634	3448721.86	15.1540	A	1.2
8	☐			11866.13	0.0506	P	2.2

$$y = 0.0152 * x + 0.0051$$

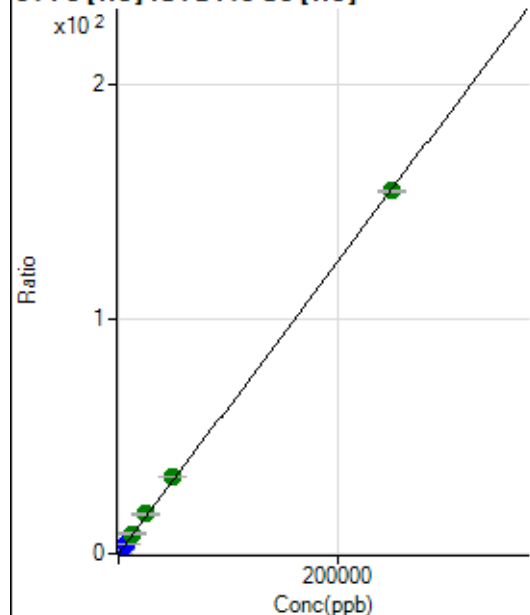
$$R = 0.9999$$

$$DL = 0.07346$$

$$BEC = 0.3368$$

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	4573.05	0.0197	P	4.3
2	☐	50.000	57.691	12859.70	0.0555	P	2.4
3	☐	2500.000	2668.274	390493.70	1.6774	P	1.3
4	☐	6250.000	6704.025	962692.60	4.1846	P	1.0
5	☐	12500.000	13768.808	1971385.33	8.5737	A	1.5
6	☐	25000.000	27055.671	3811846.01	16.8283	A	1.0
7	☐	50000.000	52506.205	7428238.94	32.6396	A	0.8
8	☐	250000.00	249216.71	36338529.98	154.8478	A	0.5

$$y = 6.2126E-004 * x + 0.0197$$

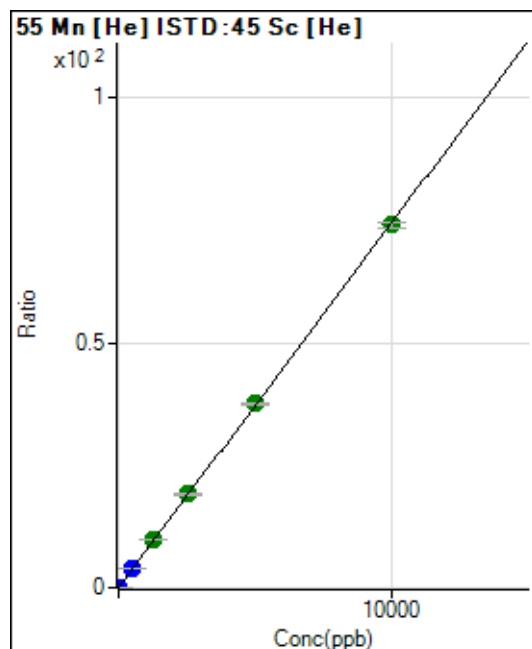
$$R = 0.9999$$

$$DL = 4.122$$

$$BEC = 31.67$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	448.90	0.0019	P	10.2
2	☐	1.000	1.090	2325.77	0.0100	P	4.6
3	☐	500.000	514.711	891742.63	3.8304	P	1.0
4	☐	1250.000	1306.390	2235845.62	9.7190	A	1.3
5	☐	2500.000	2566.214	4389406.08	19.0896	A	0.8
6	☐	5000.000	5050.964	8510596.68	37.5714	A	1.2
7	☐	10000.000	9950.180	16843446.69	74.0121	A	1.3
8	☐			24023.63	0.1024	P	0.5

$$y = 0.0074 * x + 0.0019$$

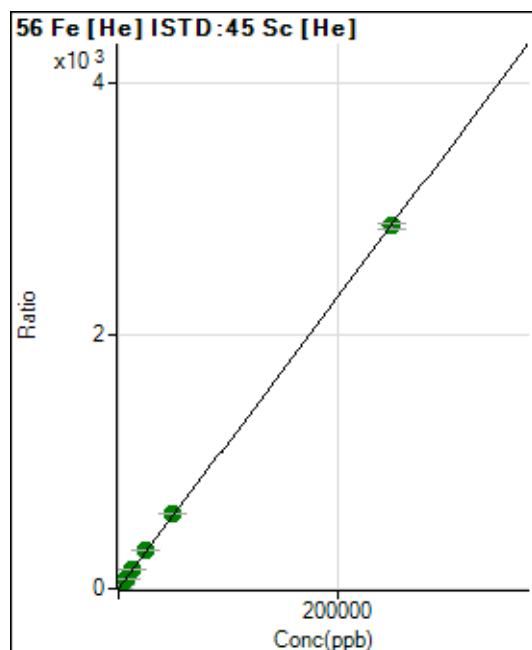
$$R = 0.9999$$

$$DL = 0.07972$$

$$BEC = 0.2599$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	78182.11	0.3365	P	0.7
2	☐	50.000	52.865	218474.62	0.9432	P	2.0
3	☐	2500.000	2691.265	7269067.99	31.2236	A	1.0
4	☐	6250.000	6614.840	17540943.45	76.2537	A	1.7
5	☐	12500.000	13236.392	35005111.20	152.2479	A	1.3
6	☐	25000.000	26088.694	67899298.74	299.7512	A	1.1
7	☐	50000.000	51562.947	134748308.5	592.1142	A	1.8
8	☐	250000.00	249530.68	672133000.2	2.864.150	A	1.4

$$y = 0.0115 * x + 0.3365$$

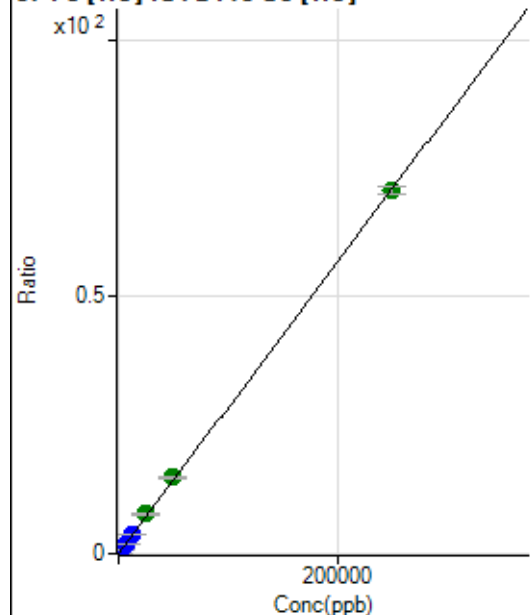
$$R = 1.0000$$

$$DL = 0.6195$$

$$BEC = 29.32$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1937.20	0.0083	P	1.8
2	☐	50.000	54.237	5491.89	0.0237	P	4.6
3	☐	2500.000	2669.716	178091.72	0.7650	P	1.2
4	☐	6250.000	6673.291	436973.19	1.8996	P	2.0
5	☐	12500.000	13208.957	862704.35	3.7519	P	0.6
6	☐	25000.000	27116.723	1742611.35	7.6936	A	1.8
7	☐	50000.000	52527.330	3389653.38	14.8953	A	2.3
8	☐	250000.00	249235.13	16576801.07	70.6449	A	2.0

$$y = 2.8341\text{E-}004 * x + 0.0083$$

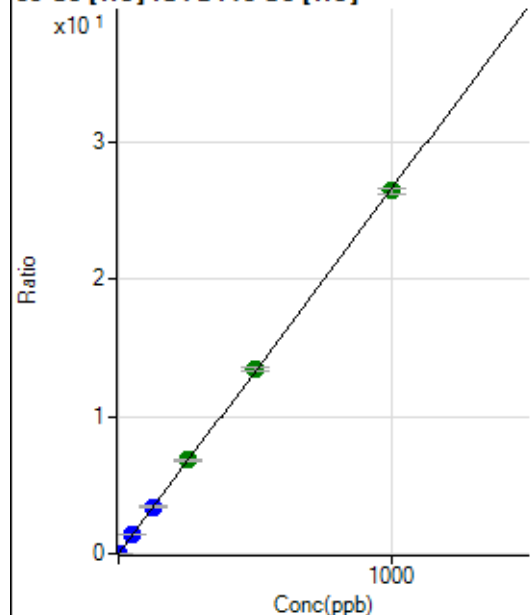
R = 0.9999

DL = 1.548

BEC = 29.42

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.34	0.0006	P	9.9
2	☐	1.000	1.029	6459.31	0.0279	P	4.7
3	☐	50.000	51.129	316160.30	1.3579	P	0.4
4	☐	125.000	128.504	784885.30	3.4119	P	1.4
5	☐	250.000	255.851	1561825.82	6.7926	A	1.4
6	☐	500.000	506.891	3047996.03	13.4568	A	1.8
7	☐	1000.000	994.597	6008791.44	26.4038	A	1.6
8	☐			14221.64	0.0606	P	1.9

$$y = 0.0265 * x + 5.7416\text{E-}004$$

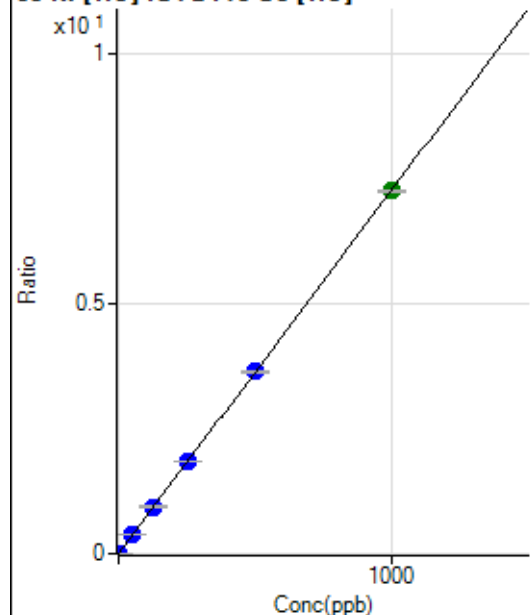
R = 0.9999

DL = 0.006403

BEC = 0.02163

Weight: <None>

Min Conc: 0

⁶⁰Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0008	P	10.0
2	☐	1.000	1.047	1946.82	0.0084	P	2.5
3	☐	50.000	52.310	88561.32	0.3804	P	2.2
4	☐	125.000	128.820	215246.38	0.9357	P	1.5
5	☐	250.000	253.541	423249.88	1.8408	P	0.4
6	☐	500.000	500.080	822197.85	3.6299	P	1.1
7	☐	1000.000	998.482	1649305.51	7.2468	A	0.5
8	☐			5830.14	0.0248	P	1.4

$$y = 0.0073 * x + 8.0301E-004$$

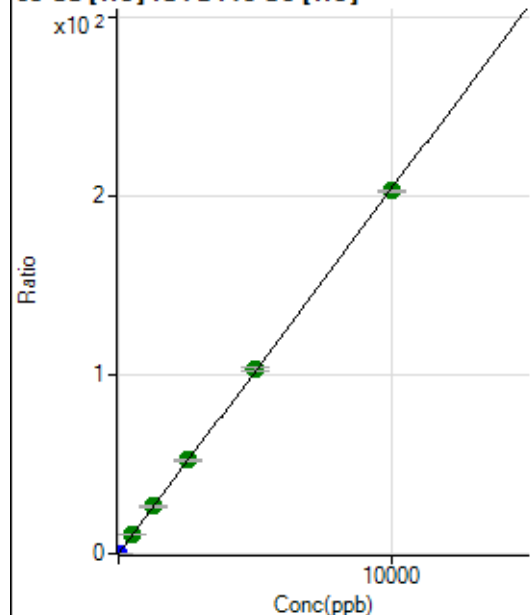
$$R = 1.0000$$

$$DL = 0.03318$$

$$BEC = 0.1107$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1050.05	0.0045	P	0.8
2	☐	2.000	1.927	10145.93	0.0438	P	3.9
3	☐	500.000	531.682	2524328.89	10.8437	A	2.2
4	☐	1250.000	1295.877	6077077.27	26.4230	A	3.6
5	☐	2500.000	2563.474	12017275.38	52.2649	A	1.8
6	☐	5000.000	5068.115	23403765.49	103.3260	A	1.8
7	☐	10000.000	9942.755	46131840.98	202.7031	A	0.8
8	☐			10427.25	0.0444	P	2.1

$$y = 0.0204 * x + 0.0045$$

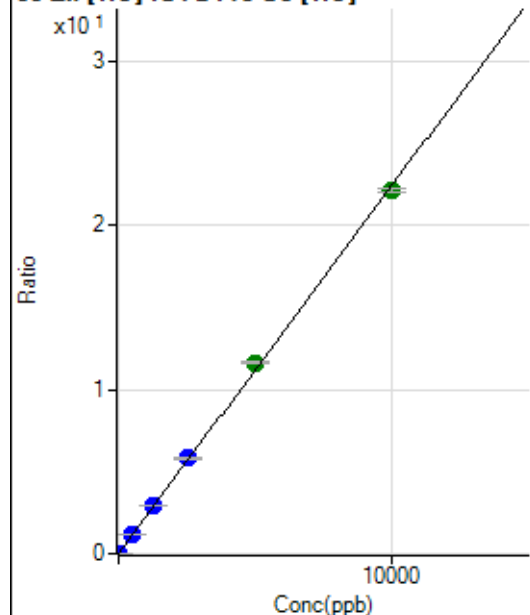
$$R = 0.9999$$

$$DL = 0.005172$$

$$BEC = 0.2217$$

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	653.36	0.0028	P	4.2
2	☐	2.000	2.307	1849.03	0.0080	P	5.9
3	☐	500.000	535.589	280218.75	1.2037	P	1.7
4	☐	1250.000	1304.428	673451.09	2.9276	P	1.8
5	☐	2500.000	2590.832	1336349.82	5.8119	P	0.4
6	☐	5000.000	5201.380	2642341.94	11.6652	A	0.2
7	☐	10000.000	9868.019	5036182.70	22.1285	A	1.1
8	☐			7703.27	0.0328	P	0.7

$$y = 0.0022 * x + 0.0028$$

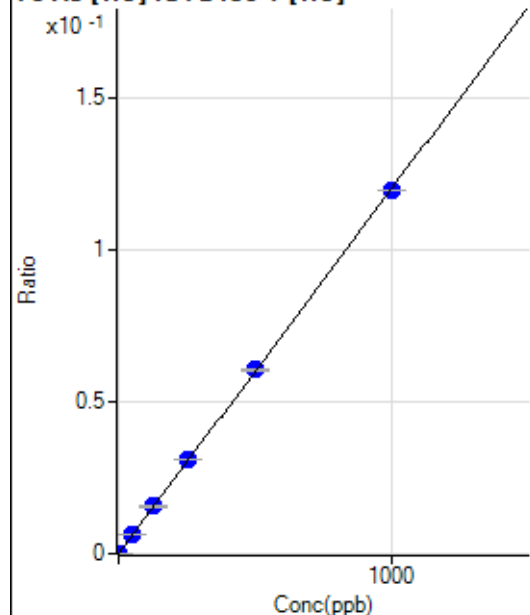
$$R = 0.9996$$

$$DL = 0.1595$$

$$BEC = 1.254$$

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	8.00	0.0000	P	23.9
2	☐	1.000	1.141	362.71	0.0001	P	2.5
3	☐	50.000	52.284	16687.83	0.0063	P	0.9
4	☐	125.000	129.920	40540.20	0.0156	P	1.7
5	☐	250.000	256.888	80472.85	0.0308	P	0.7
6	☐	500.000	505.582	158798.59	0.0607	P	1.0
7	☐	1000.000	994.758	312014.96	0.1193	P	0.1
8	☐			101.34	0.0000	P	3.7

$$y = 1.1997E-004 * x + 3.0412E-006$$

$$R = 0.9999$$

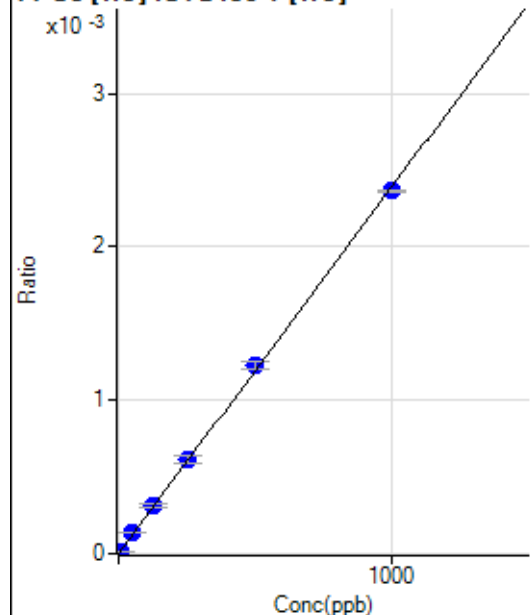
$$DL = 0.01815$$

$$BEC = 0.02535$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.080	37.78	0.0000	P	26.2
3	☐	50.000	57.879	367.78	0.0001	P	7.7
4	☐	125.000	133.064	826.70	0.0003	P	8.1
5	☐	250.000	258.452	1611.22	0.0006	P	7.7
6	☐	500.000	512.424	3203.73	0.0012	P	4.0
7	☐	1000.000	990.267	6183.63	0.0024	P	0.7
8	☐			2.22	0.0000	P	86.6

$$y = 2.3883\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

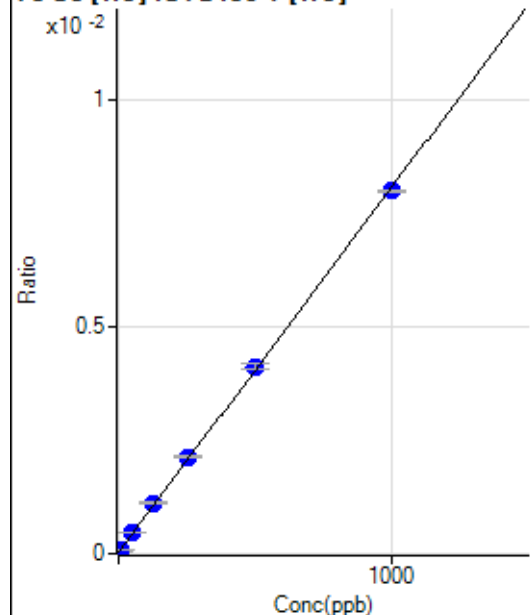
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.68	0.0000	P	12.9
2	☐	5.000	6.639	215.02	0.0001	P	4.9
3	☐	50.000	54.356	1240.85	0.0005	P	4.4
4	☐	125.000	135.059	2900.93	0.0011	P	2.3
5	☐	250.000	261.504	5567.00	0.0021	P	2.1
6	☐	500.000	509.306	10795.89	0.0041	P	3.0
7	☐	1000.000	990.988	20908.22	0.0080	P	0.8
8	☐			85.01	0.0000	P	8.7

$$y = 8.0399\text{E-}006 * x + 2.9608\text{E-}005$$

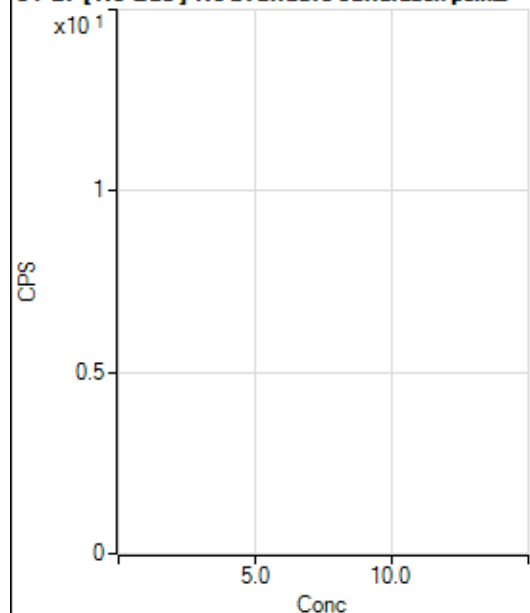
$$R = 0.9998$$

$$DL = 1.43$$

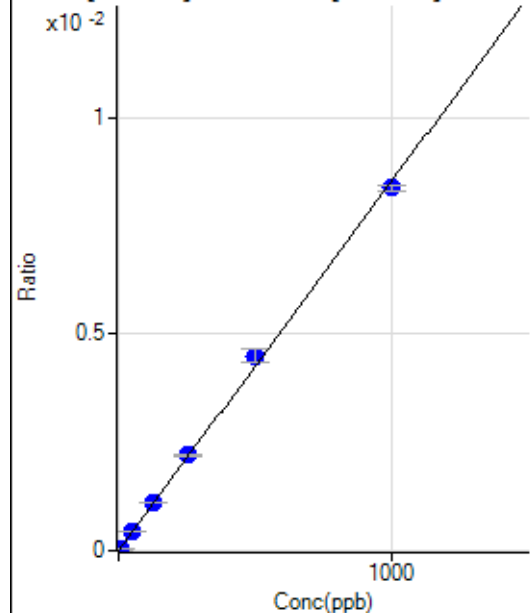
$$BEC = 3.683$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21846.29		P	1.1
2	☐			21478.54		P	2.2
3	☐			21752.90		P	0.7
4	☐			21288.38		P	4.2
5	☐			20626.44		P	2.5
6	☐			21241.60		P	2.4
7	☐			21715.89		P	2.0
8	☐			22117.06		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-65.79	0.0000	P	-57.
2	☐	5.000	5.718	953.20	0.0000	P	7.1
3	☐	50.000	52.484	9430.74	0.0004	P	1.6
4	☐	125.000	129.347	23340.13	0.0011	P	2.6
5	☐	250.000	259.993	46387.55	0.0022	P	1.7
6	☐	500.000	528.137	92142.96	0.0045	P	6.4
7	☐	1000.000	982.762	180732.44	0.0084	P	1.3
8	☐			206.67	0.0000	P	12.4

$$y = 8.5374E-006 * x - 3.2045E-006$$

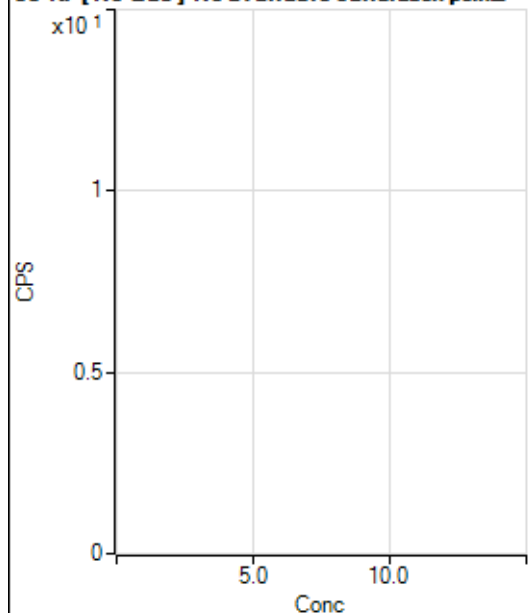
$$R = 0.9993$$

$$DL = 0.651$$

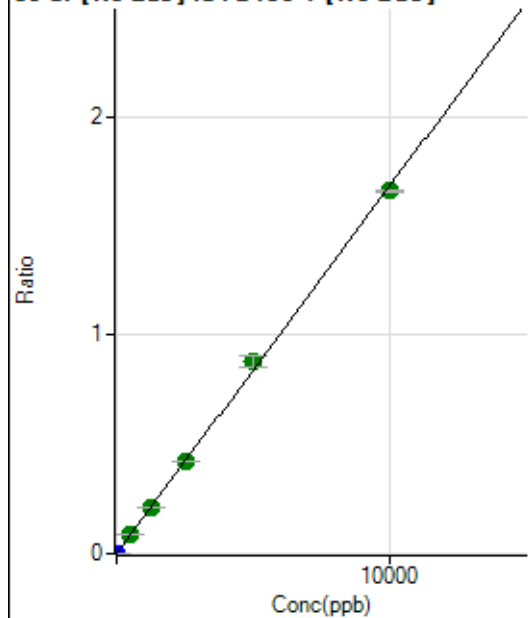
$$BEC = -0.3753$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1078.94		P	2.9
2	☐			994.49		P	3.9
3	☐			1042.27		P	1.5
4	☐			1066.72		P	4.9
5	☐			1030.05		P	3.5
6	☐			1090.05		P	5.3
7	☐			1001.16		P	3.9
8	☐			1041.16		P	4.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1711.26	0.0001	P	7.2
2	☐	1.000	1.080	5526.27	0.0003	P	3.6
3	☐	500.000	514.894	1834770.59	0.0865	A	1.2
4	☐	1250.000	1268.108	4515493.07	0.2130	A	2.1
5	☐	2500.000	2508.853	8817577.54	0.4213	A	1.4
6	☐	5000.000	5232.782	17970236.34	0.8787	A	6.3
7	☐	10000.000	9878.388	35745350.10	1.6586	A	0.7
8	☐			27708.67	0.0013	P	4.3

$$y = 1.6790E-004 * x + 8.3072E-005$$

$$R = 0.9996$$

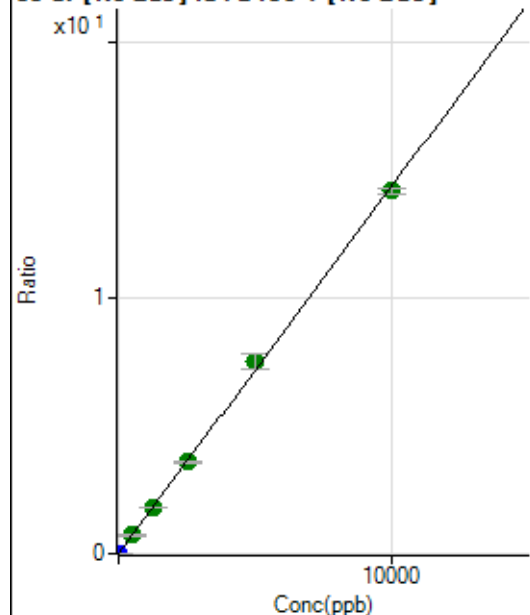
$$DL = 0.107$$

$$BEC = 0.4948$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1252.87	0.0001	P	3.8
2	☐	1.000	1.113	34632.68	0.0017	P	1.8
3	☐	500.000	497.556	15129423.25	0.7136	A	2.4
4	☐	1250.000	1251.334	38048494.60	1.7947	A	1.7
5	☐	2500.000	2490.308	74751955.84	3.5716	A	1.3
6	☐	5000.000	5244.061	153746875.6	7.5210	A	7.4
7	☐	10000.000	9880.348	305357331.8	14.1703	A	1.4
8	☐			222159.71	0.0105	P	2.7

$$y = 0.0014 * x + 6.0793E-005$$

$$R = 0.9996$$

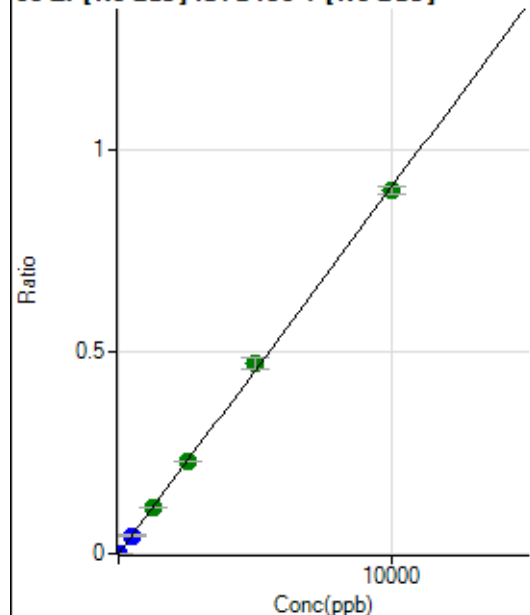
$$DL = 0.004854$$

$$BEC = 0.04239$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1111.19	0.0001	P	1.2
2	☐	1.000	9.542	19219.25	0.0009	P	3.1
3	☐	500.000	493.452	950323.53	0.0448	P	2.3
4	☐	1250.000	1260.140	2425722.82	0.1144	A	2.2
5	☐	2500.000	2513.052	4774290.69	0.2281	A	0.6
6	☐	5000.000	5201.842	9658409.16	0.4721	A	5.6
7	☐	10000.000	9894.875	19349517.45	0.8980	A	2.0
8	☐			10629.33	0.0005	P	5.2

$$y = 9.0750E-005 * x + 5.3922E-005$$

$$R = 0.9997$$

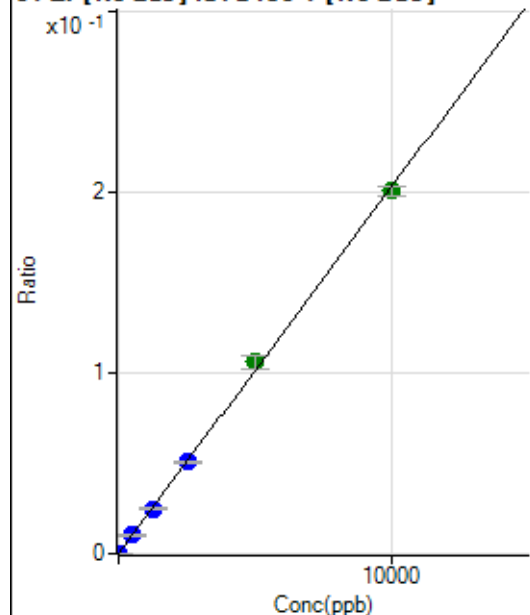
$$DL = 0.02081$$

$$BEC = 0.5942$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	183.34	0.0000	P	11.0
2	☐	1.000	9.501	4217.41	0.0002	P	9.6
3	☐	500.000	497.691	214549.80	0.0101	P	1.6
4	☐	1250.000	1226.409	528404.98	0.0249	P	2.7
5	☐	2500.000	2490.239	1059142.12	0.0506	P	1.1
6	☐	5000.000	5229.678	2172554.15	0.1063	A	7.0
7	☐	10000.000	9890.665	4329853.53	0.2010	A	2.8
8	☐			2291.92	0.0001	P	6.3

$$y = 2.0318\text{E-}005 * x + 8.8906\text{E-}006$$

$$R = 0.9996$$

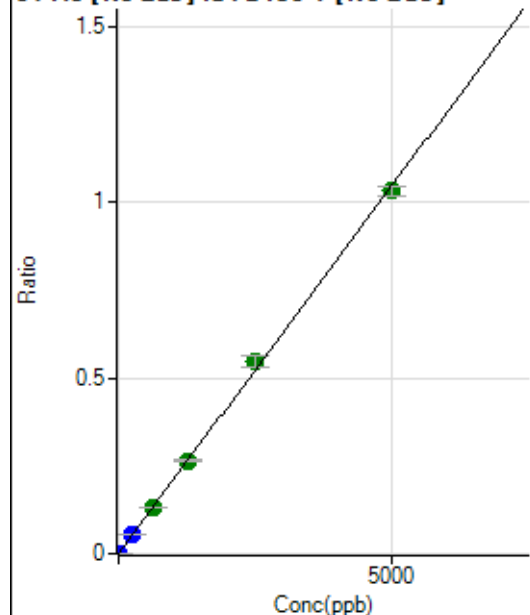
$$DL = 0.1445$$

$$BEC = 0.4376$$

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	341.68	0.0000	P	4.8
2	☐	5.000	5.156	22897.31	0.0011	P	3.2
3	☐	250.000	251.888	1117922.47	0.0527	P	1.5
4	☐	625.000	627.287	2784178.04	0.1313	A	0.3
5	☐	1250.000	1267.185	5550928.29	0.2652	A	2.8
6	☐	2500.000	2616.579	11199960.84	0.5477	A	6.4
7	☐	5000.000	4937.034	22263510.40	1.0333	A	2.5
8	☐			8363.86	0.0004	P	3.4

$$y = 2.0930\text{E-}004 * x + 1.6584\text{E-}005$$

$$R = 0.9996$$

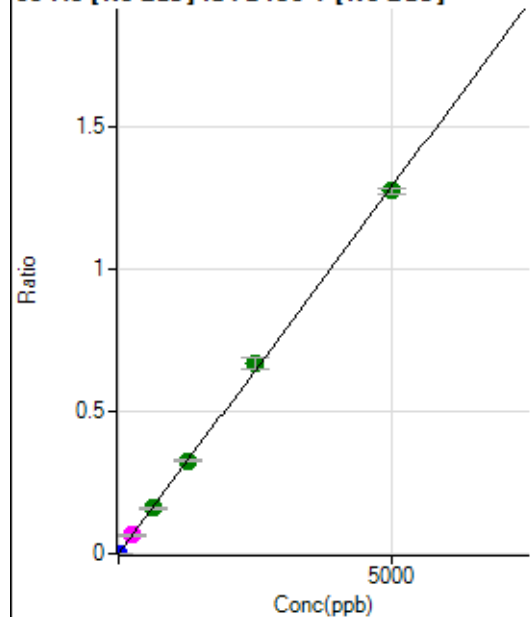
$$DL = 0.01146$$

$$BEC = 0.07924$$

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	113.89	0.0000	P	23.1
2	☐	5.000	5.018	27104.82	0.0013	P	0.8
3	☐	250.000	249.923	1363655.19	0.0643	M	2.0
4	☐	625.000	622.477	3396657.80	0.1602	A	2.4
5	☐	1250.000	1269.750	6840149.02	0.3268	A	2.0
6	☐	2500.000	2599.363	13684583.29	0.6691	A	6.1
7	☐	5000.000	4945.700	27432836.03	1.2730	A	1.5
8	☐			7460.52	0.0004	P	4.9

$$y = 2.5739\text{E-}004 * x + 5.5335\text{E-}006$$

$$R = 0.9997$$

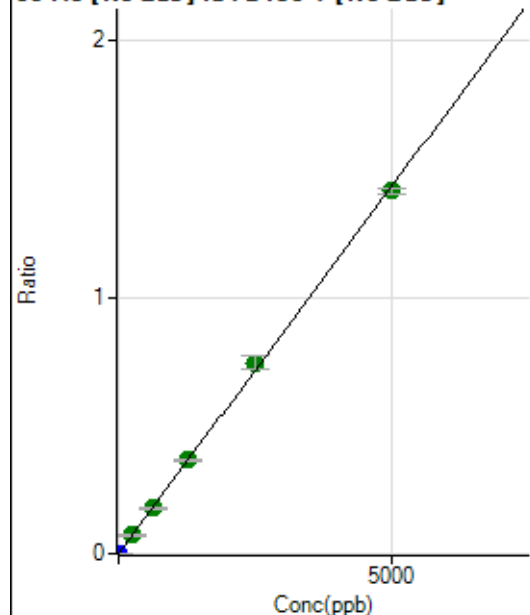
$$DL = 0.01488$$

$$BEC = 0.0215$$

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	186.12	0.0000	P	26.2
2	☐	5.000	5.145	30979.70	0.0015	P	2.3
3	☐	250.000	250.123	1518496.27	0.0716	A	2.6
4	☐	625.000	621.684	3774404.21	0.1781	A	2.5
5	☐	1250.000	1271.778	7623432.12	0.3642	A	2.0
6	☐	2500.000	2604.659	15255633.67	0.7460	A	6.3
7	☐	5000.000	4942.634	30503658.67	1.4156	A	1.6
8	☐			19795.19	0.0009	P	5.6

$$y = 2.8640\text{E-}004 * x + 9.0196\text{E-}006$$

$$R = 0.9997$$

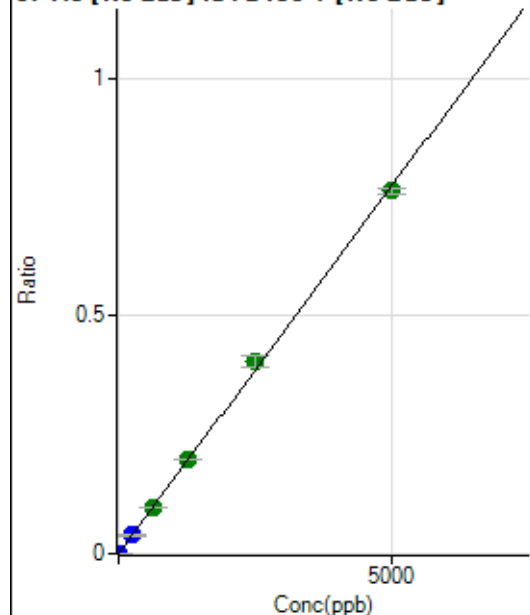
$$DL = 0.02476$$

$$BEC = 0.03149$$

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	50.00	0.0000	P	16.8
2	☐	5.000	5.217	16916.30	0.0008	P	3.0
3	☐	250.000	251.729	825419.51	0.0389	P	3.1
4	☐	625.000	629.148	2063050.72	0.0973	A	3.6
5	☐	1250.000	1287.852	4169891.54	0.1992	A	1.1
6	☐	2500.000	2605.393	8243807.22	0.4031	A	6.1
7	☐	5000.000	4937.235	16458404.36	0.7638	A	1.7
8	☐			4606.46	0.0002	P	9.6

$$y = 1.5470\text{E-}004 * x + 2.4267\text{E-}006$$

$$R = 0.9996$$

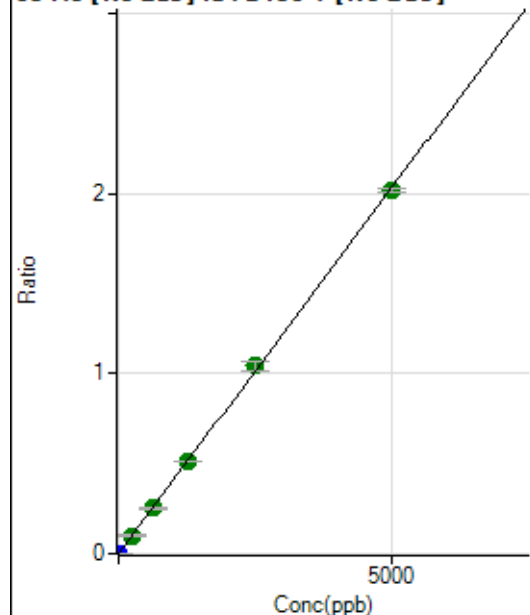
$$DL = 0.007917$$

$$BEC = 0.01569$$

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	141.67	0.0000	P	21.9
2	☐	5.000	5.125	43641.97	0.0021	P	2.2
3	☐	250.000	247.625	2132127.65	0.1006	A	2.0
4	☐	625.000	624.487	5376477.68	0.2537	A	3.1
5	☐	1250.000	1268.037	10779606.58	0.5150	A	0.7
6	☐	2500.000	2567.248	21331546.31	1.0428	A	5.6
7	☐	5000.000	4962.050	43435239.86	2.0155	A	1.0
8	☐			11313.22	0.0005	P	7.0

$$y = 4.0617\text{E-}004 * x + 6.8825\text{E-}006$$

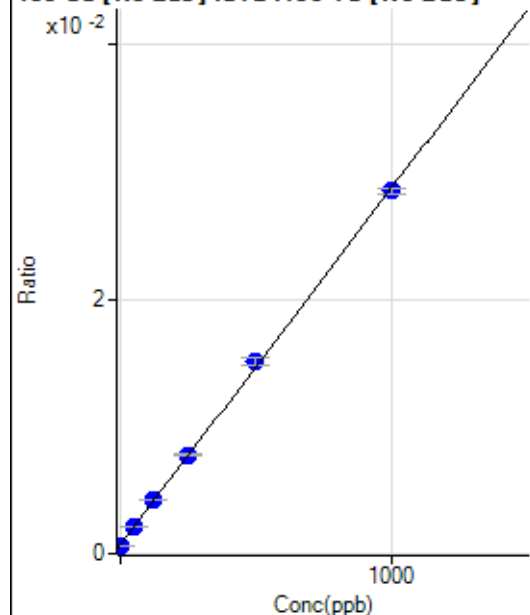
$$R = 0.9999$$

$$DL = 0.01114$$

$$BEC = 0.01694$$

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	5281.71	0.0006	P	0.4
2	☐	1.000	0.253	5331.76	0.0006	P	8.3
3	☐	50.000	53.567	18532.34	0.0021	P	2.5
4	☐	125.000	128.071	37512.97	0.0042	P	2.7
5	☐	250.000	253.616	68795.09	0.0078	P	2.6
6	☐	500.000	515.040	132302.55	0.0151	P	4.4
7	☐	1000.000	991.015	260321.03	0.0285	P	1.3
8	☐			5381.78	0.0006	P	4.7

$$y = 2.8140\text{E-}005 * x + 6.1762\text{E-}004$$

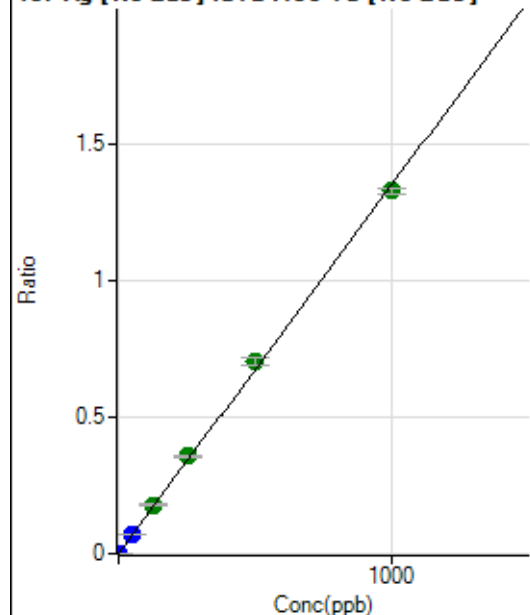
$$R = 0.9998$$

$$DL = 0.2961$$

$$BEC = 21.95$$

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	144.45	0.0000	P	29.4
2	☐	1.000	1.079	12581.08	0.0015	P	2.9
3	☐	50.000	52.776	622041.18	0.0713	P	2.7
4	☐	125.000	132.398	1590062.63	0.1789	A	1.5
5	☐	250.000	263.793	3162143.63	0.3564	A	3.0
6	☐	500.000	521.885	6174116.72	0.7052	A	4.3
7	☐	1000.000	984.545	12148056.00	1.3303	A	1.3
8	☐			6423.91	0.0007	P	4.4

$$y = 0.0014 * x + 1.6913\text{E-}005$$

$$R = 0.9995$$

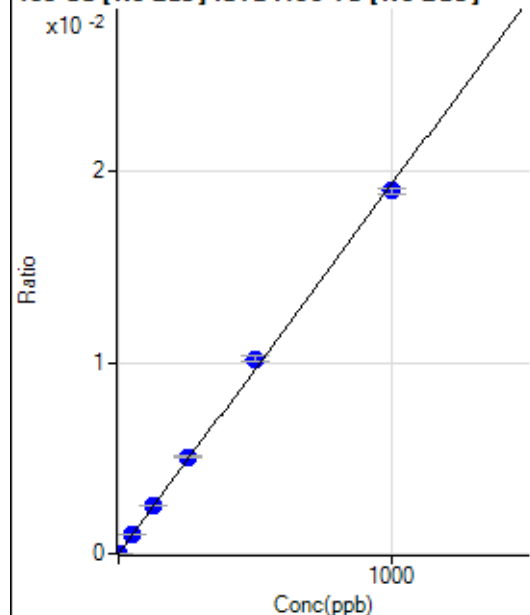
$$DL = 0.01103$$

$$BEC = 0.01252$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	2.5
2	☐	1.000	1.156	262.51	0.0000	P	4.2
3	☐	50.000	52.541	8921.02	0.0010	P	1.9
4	☐	125.000	129.256	22251.50	0.0025	P	1.4
5	☐	250.000	261.155	44807.44	0.0050	P	1.5
6	☐	500.000	527.792	89308.06	0.0102	P	3.7
7	☐	1000.000	982.656	173299.29	0.0190	P	1.7
8	☐			113.89	0.0000	P	17.3

$$y = 1.9305\text{E-}005 * x + 8.4446\text{E-}006$$

$$R = 0.9993$$

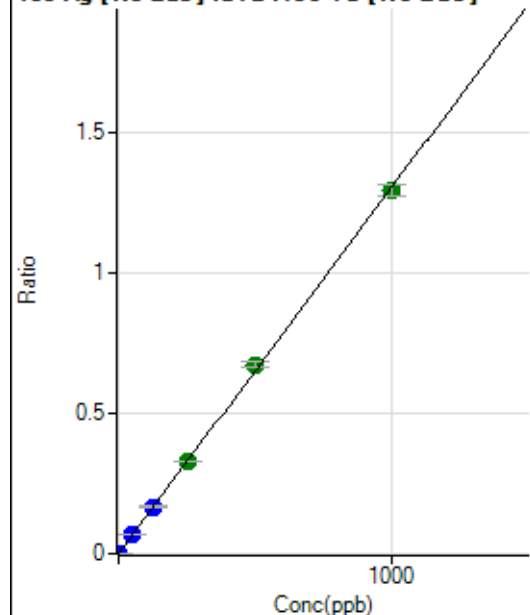
$$DL = 0.03228$$

$$BEC = 0.4374$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	29.5
2	☐	1.000	1.019	11457.83	0.0013	P	2.1
3	☐	50.000	52.683	599512.89	0.0688	P	3.5
4	☐	125.000	126.944	1471972.35	0.1656	P	2.8
5	☐	250.000	252.437	2922645.42	0.3294	A	1.7
6	☐	500.000	515.930	5895132.56	0.6732	A	3.5
7	☐	1000.000	991.048	11806691.67	1.2931	A	3.0
8	☐			6159.90	0.0007	P	4.9

$$y = 0.0013 * x + 1.2334\text{E-}005$$

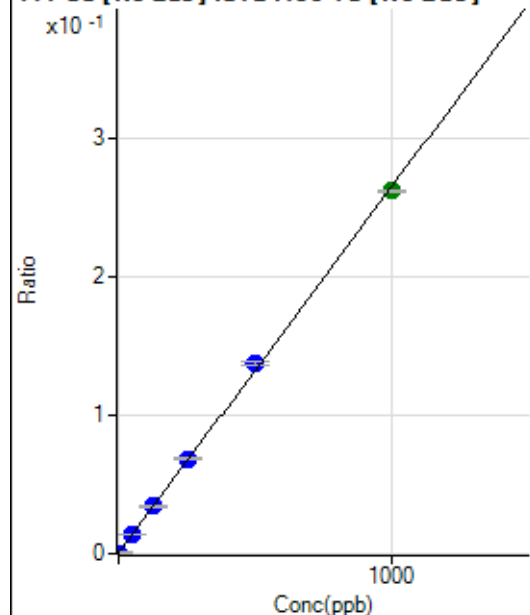
$$R = 0.9998$$

$$DL = 0.008356$$

$$BEC = 0.009453$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3689.70	0.0004	P	0.4
2	☐	1.000	0.968	5872.32	0.0007	P	6.6
3	☐	50.000	52.395	124857.40	0.0143	P	3.4
4	☐	125.000	127.172	303359.67	0.0341	P	2.5
5	☐	250.000	257.711	609875.78	0.0687	P	1.0
6	☐	500.000	516.765	1203520.82	0.1374	P	2.3
7	☐	1000.000	989.299	2398674.95	0.2626	A	0.4
8	☐			4426.45	0.0005	P	4.0

$$y = 2.6505\text{E-}004 * x + 4.3146\text{E-}004$$

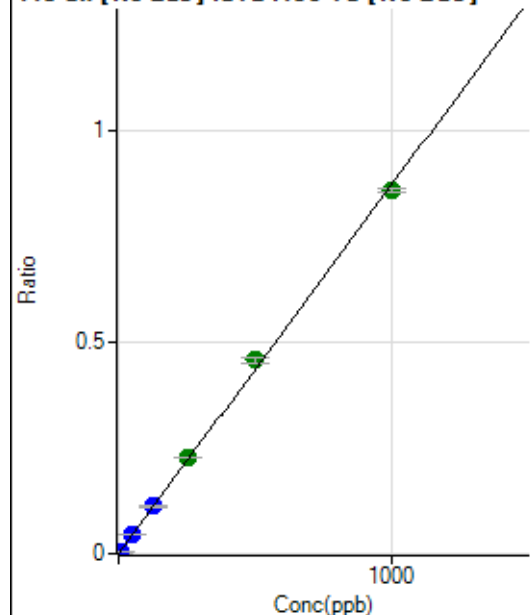
$$R = 0.9998$$

$$DL = 0.01743$$

$$BEC = 1.628$$

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	1141.76	0.0001	P	10.2
2	☐	5.000	5.131	39321.28	0.0046	P	2.0
3	☐	50.000	51.837	395307.43	0.0453	P	2.3
4	☐	125.000	128.025	993169.18	0.1117	P	1.4
5	☐	250.000	260.010	2012528.41	0.2268	A	1.5
6	☐	500.000	525.783	4015802.78	0.4585	A	3.3
7	☐	1000.000	984.136	7837533.07	0.8581	A	1.0
8	☐			3750.61	0.0004	P	7.2

$$y = 8.7181\text{E-}004 * x + 1.3340\text{E-}004$$

$$R = 0.9994$$

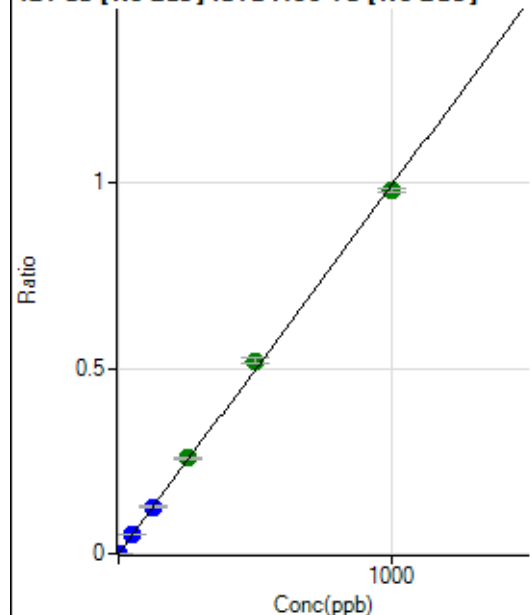
$$DL = 0.04686$$

$$BEC = 0.153$$

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	50.00	0.0000	P	30.4
2	☐	2.000	2.115	17959.45	0.0021	P	4.5
3	☐	50.000	51.707	447531.26	0.0513	P	3.2
4	☐	125.000	126.925	1119355.30	0.1260	P	2.7
5	☐	250.000	259.427	2284193.58	0.2575	A	2.1
6	☐	500.000	522.896	4545083.35	0.5189	A	3.0
7	☐	1000.000	985.869	8935871.81	0.9784	A	1.0
8	☐			6129.33	0.0007	P	7.0

$$y = 9.9242\text{E-}004 * x + 5.8632\text{E-}006$$

$$R = 0.9996$$

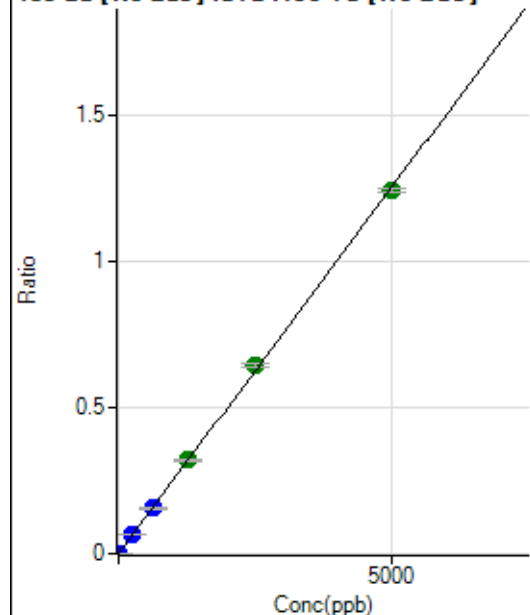
$$DL = 0.00538$$

$$BEC = 0.005908$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0000	P	11.4
2	☐	10.000	10.838	23484.78	0.0028	P	3.9
3	☐	250.000	254.546	556453.82	0.0638	P	2.7
4	☐	625.000	618.312	1376846.75	0.1549	P	2.3
5	☐	1250.000	1283.197	2852390.69	0.3215	A	2.2
6	☐	2500.000	2575.659	5653887.19	0.6453	A	1.7
7	☐	5000.000	4954.478	11336264.05	1.2413	A	1.2
8	☐			4459.16	0.0005	P	2.2

$$y = 2.5052\text{E-}004 * x + 3.7033\text{E-}005$$

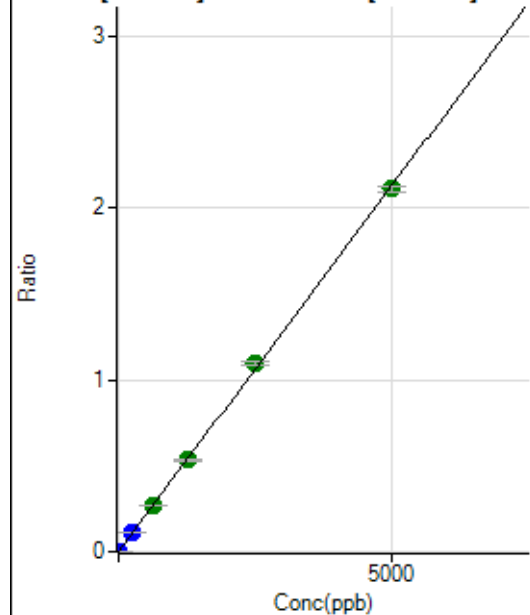
$$R = 0.9998$$

$$DL = 0.0504$$

$$BEC = 0.1478$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	519.47	0.0001	P	8.3
2	☐	10.000	10.463	38502.81	0.0045	P	1.1
3	☐	250.000	256.805	952964.75	0.1093	P	3.1
4	☐	625.000	630.399	2383205.28	0.2682	A	1.9
5	☐	1250.000	1257.021	4743709.35	0.5347	A	2.5
6	☐	2500.000	2572.995	9586309.68	1.0944	A	2.1
7	☐	5000.000	4960.731	19268454.60	2.1099	A	1.5
8	☐			7835.83	0.0009	P	6.1

$$y = 4.2531E-004 * x + 6.0700E-005$$

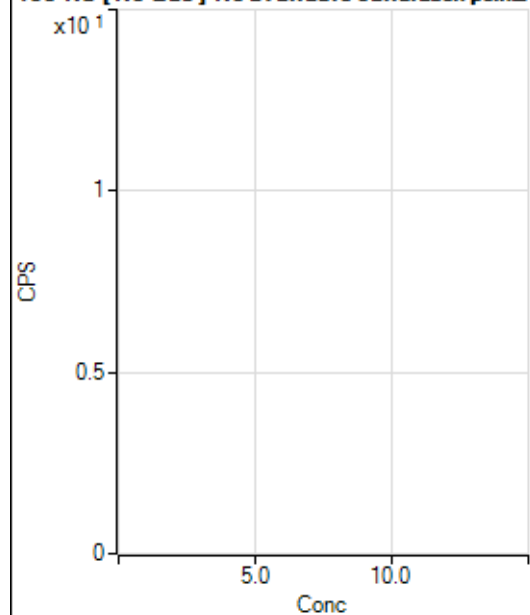
$$R = 0.9998$$

$$DL = 0.0356$$

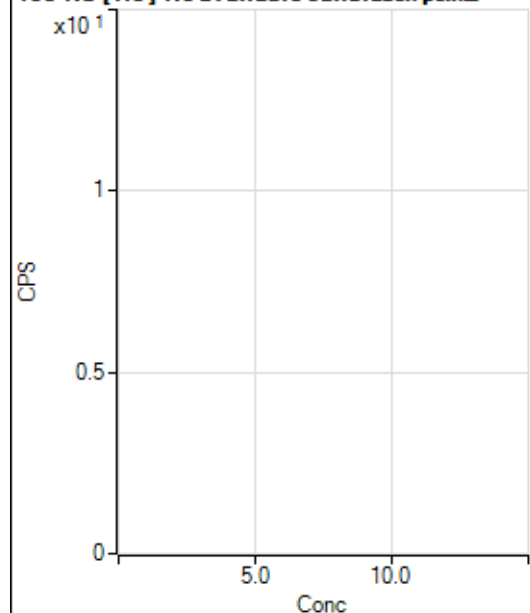
$$BEC = 0.1427$$

Weight: <None>

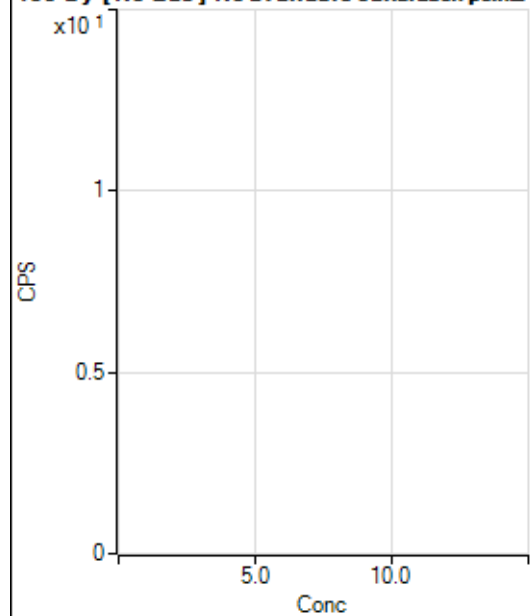
Min Conc: 0

150 Nd [No Gas] No available calibration points

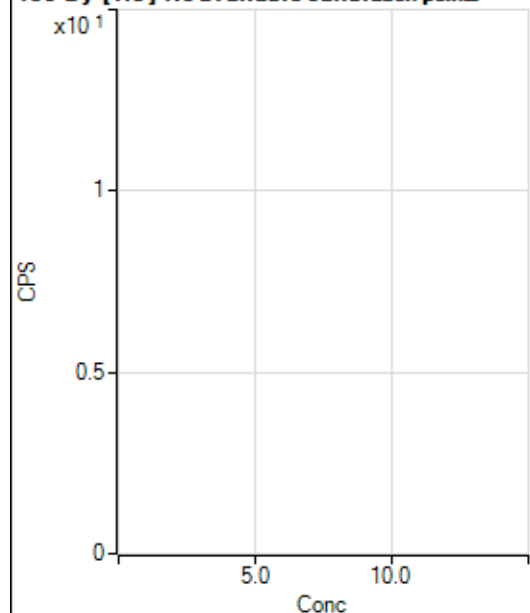
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			97.78		P	17.2
2	☐			113.34		P	17.6
3	☐			40.00		P	44.1
4	☐			68.89		P	36.6
5	☐			100.00		P	20.0
6	☐			246.68		P	21.5
7	☐			406.68		P	17.3
8	☐			73.33		P	27.3

150 Nd [He] No available calibration points

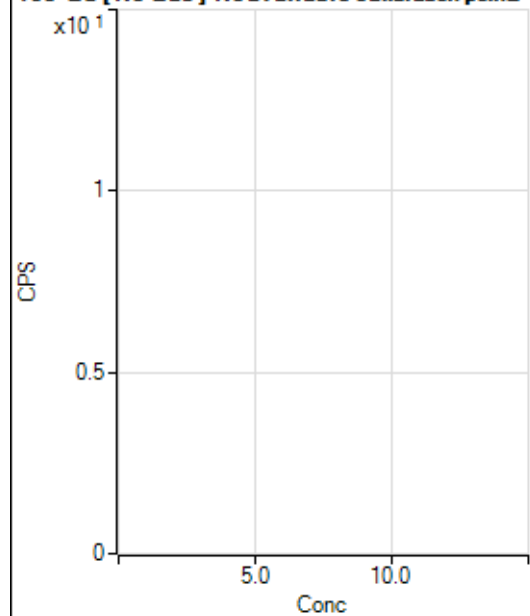
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	9.1
2	☐			37.78		P	27.0
3	☐			3.33		P	173.
4	☐			3.33		P	100.
5	☐			14.45		P	26.7
6	☐			30.00		P	44.4
7	☐			43.33		P	42.8
8	☐			27.78		P	38.6

156 Dy [No Gas] No available calibration points

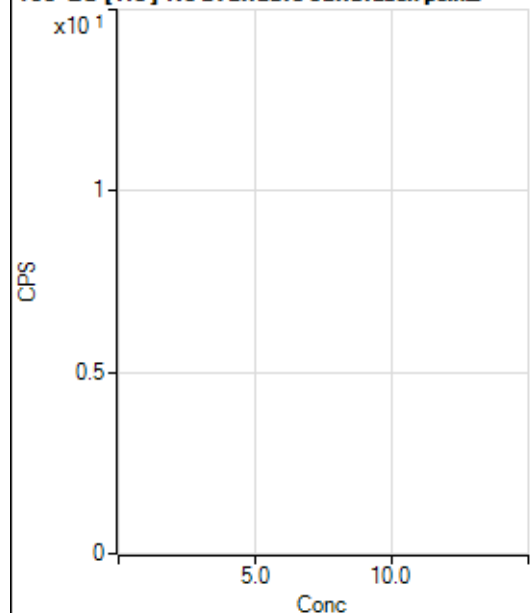
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			111.12		P	33.8
2	☐			97.22		P	43.1
3	☐			41.67		P	0.0
4	☐			58.34		P	37.8
5	☐			122.23		P	23.9
6	☐			202.79		P	29.2
7	☐			397.24		P	10.6
8	☐			1566.81		P	6.4

156 Dy [He] No available calibration points

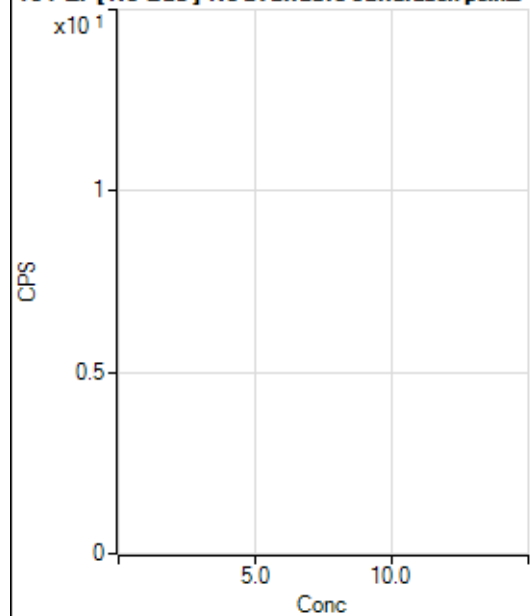
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	63.0
2	☐			44.45		P	15.6
3	☐			18.89		P	27.0
4	☐			27.78		P	13.9
5	☐			54.44		P	3.5
6	☐			91.11		P	23.5
7	☐			207.78		P	24.1
8	☐			774.48		P	5.1

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

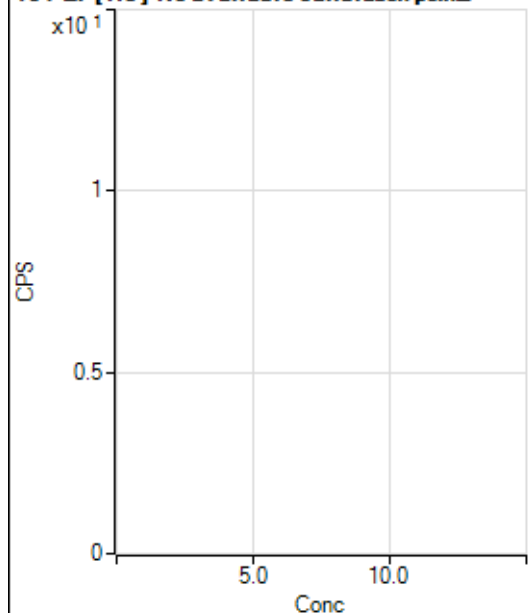
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			155.56		P	8.2
2	☐			163.89		P	21.2
3	☐			69.45		P	6.9
4	☐			80.56		P	41.8
5	☐			147.23		P	8.6
6	☐			236.12		P	8.9
7	☐			405.58		P	17.1
8	☐			1352.89		P	9.3

160 Gd [He] No available calibration points

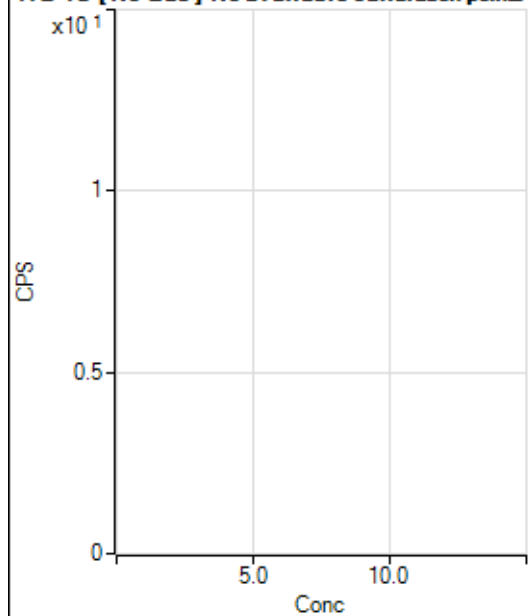
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			110.00		P	15.2
2	☐			97.78		P	12.9
3	☐			70.00		P	9.5
4	☐			85.55		P	15.7
5	☐			112.22		P	21.5
6	☐			154.45		P	16.3
7	☐			232.23		P	10.8
8	☐			920.04		P	7.8

164 Er [No Gas] No available calibration points

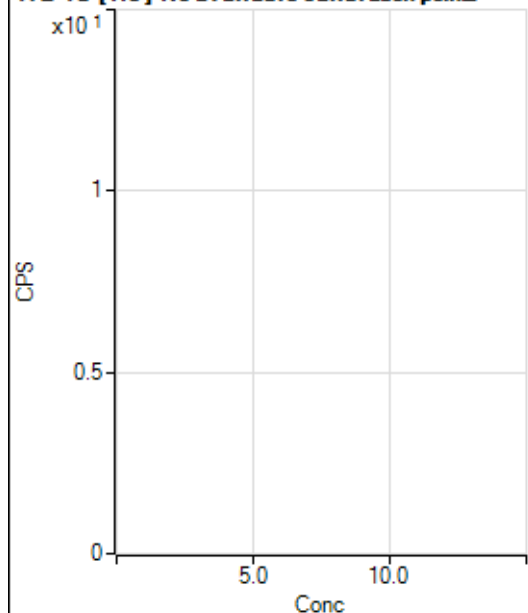
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			130.56		P	14.7
2	☐			108.34		P	20.4
3	☐			72.22		P	46.6
4	☐			50.00		P	33.3
5	☐			88.89		P	19.5
6	☐			91.67		P	63.0
7	☐			163.89		P	38.5
8	☐			238.90		P	17.2

164 Er [He] No available calibration points

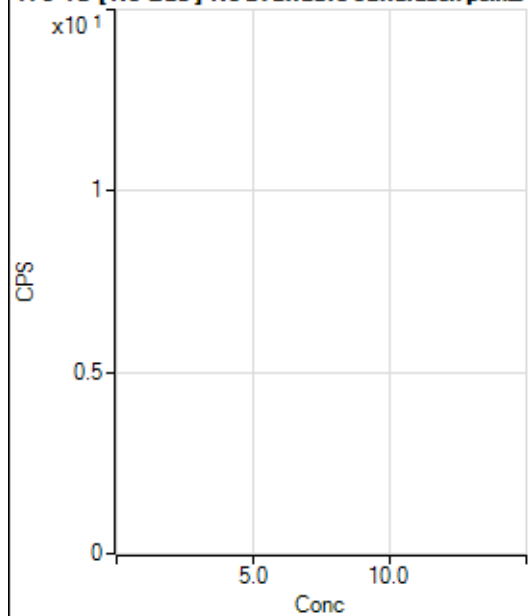
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	14.3
2	☐			56.67		P	36.7
3	☐			35.56		P	35.5
4	☐			33.33		P	30.0
5	☐			38.89		P	34.6
6	☐			41.11		P	54.0
7	☐			47.78		P	24.5
8	☐			142.23		P	19.9

172 Yb [No Gas] No available calibration points

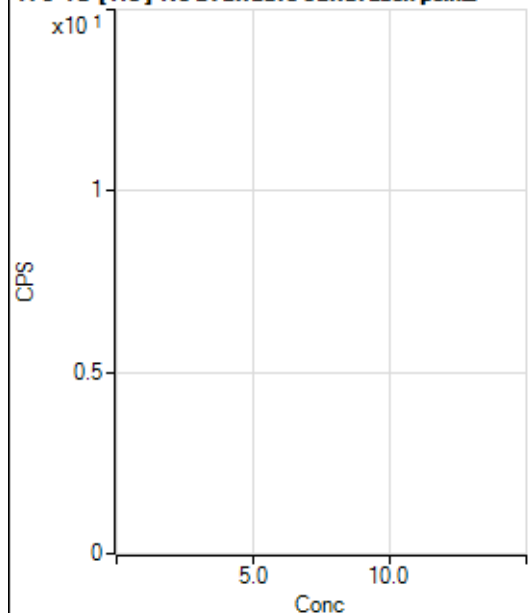
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	97.2
2	☐			33.33		P	25.0
3	☐			13.89		P	34.7
4	☐			33.34		P	66.1
5	☐			25.00		P	100.
6	☐			47.22		P	27.0
7	☐			52.78		P	24.1
8	☐			152.78		P	32.0

172 Yb [He] No available calibration points

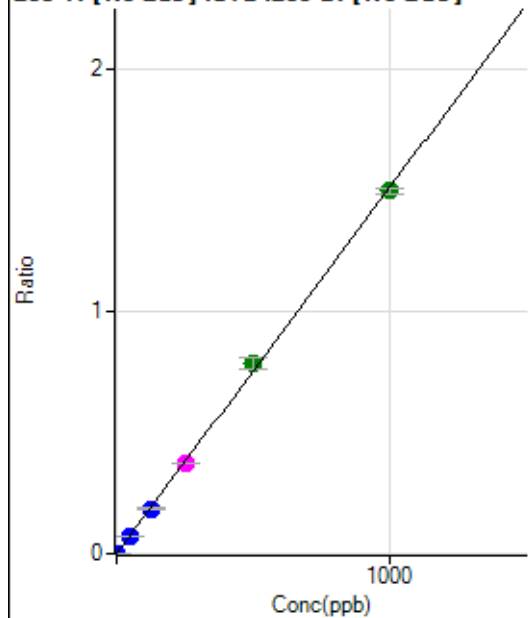
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.30		P	6.9
2	☐			24.07		P	13.3
3	☐			31.48		P	44.4
4	☐			29.63		P	21.7
5	☐			27.78		P	0.0
6	☐			18.52		P	34.6
7	☐			33.34		P	28.9
8	☐			83.33		P	35.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1075.07		P	4.7
2	☐			1038.96		P	5.8
3	☐			2489.20		P	5.5
4	☐			4614.85		P	2.9
5	☐			8138.87		P	4.7
6	☐			15982.39		P	2.7
7	☐			31165.16		P	0.9
8	☐			1083.41		P	10.2

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3704.29		P	3.0
2	☐			3265.28		P	3.0
3	☐			4330.43		P	10.1
4	☐			5391.94		P	4.0
5	☐			7622.72		P	3.0
6	☐			12039.03		P	1.8
7	☐			20710.95		P	1.3
8	☐			3415.34		P	7.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	308.34	0.0001	P	26.0
2	☐	1.000	1.026	7132.73	0.0016	P	1.4
3	☐	50.000	47.702	332170.60	0.0721	P	2.1
4	☐	125.000	121.527	824141.93	0.1835	P	3.7
5	☐	250.000	246.600	1710762.58	0.3724	M	1.5
6	☐	500.000	519.338	3531436.32	0.7841	A	6.2
7	☐	1000.000	991.730	6914829.06	1.4973	A	1.6
8	☐			1439.00	0.0003	P	6.8

$$y = 0.0015 * x + 6.8752E-005$$

$$R = 0.9997$$

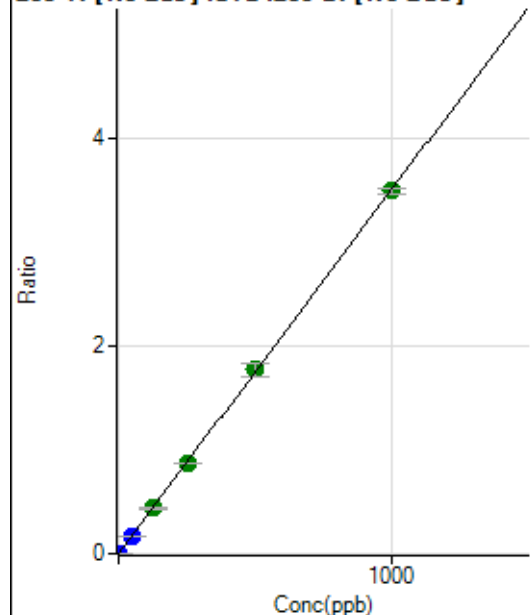
$$DL = 0.03555$$

$$BEC = 0.04554$$

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	702.82	0.0002	P	4.4
2	☐	1.000	0.993	16043.78	0.0036	P	2.9
3	☐	50.000	47.070	761161.70	0.1652	P	2.2
4	☐	125.000	124.624	1963266.62	0.4371	A	3.0
5	☐	250.000	248.737	4006990.80	0.8723	A	1.7
6	☐	500.000	507.019	8005168.41	1.7780	A	7.2
7	☐	1000.000	997.000	16144297.23	3.4960	A	1.5
8	☐			3200.48	0.0007	P	8.2

$$y = 0.0035 * x + 1.5668E-004$$

$$R = 1.0000$$

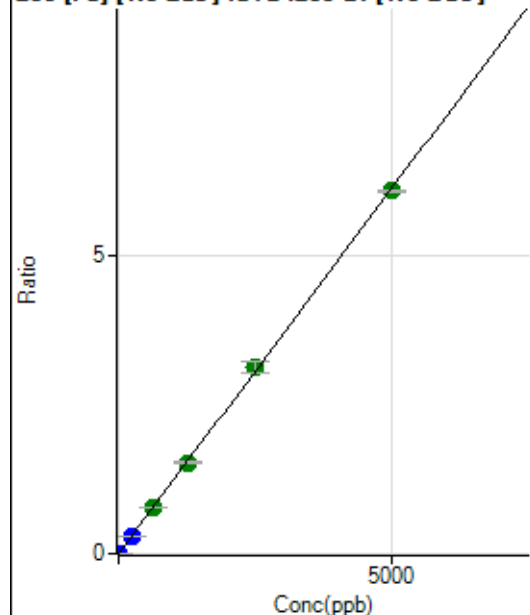
$$DL = 0.00585$$

$$BEC = 0.04468$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1353.80	0.0003	P	2.3
2	☐	1.000	0.959	6498.06	0.0015	P	6.4
3	☐	250.000	229.810	1296269.85	0.2813	P	1.9
4	☐	625.000	635.033	3489124.35	0.7769	A	2.1
5	☐	1250.000	1241.244	6973128.57	1.5182	A	2.3
6	☐	2500.000	2562.832	14117589.09	3.1343	A	5.9
7	☐	5000.000	4970.528	28070317.53	6.0785	A	0.7
8	☐			10178.24	0.0024	P	4.7

$$y = 0.0012 * x + 3.0181E-004$$

$$R = 0.9999$$

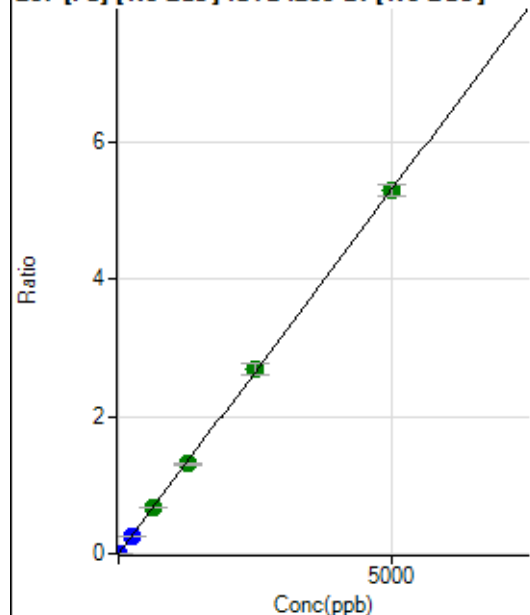
$$DL = 0.01722$$

$$BEC = 0.2468$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1205.64	0.0003	P	6.5
2	☐	1.000	1.003	5868.10	0.0013	P	7.4
3	☐	250.000	232.635	1136686.06	0.2467	P	1.7
4	☐	625.000	638.458	3038341.45	0.6766	A	2.5
5	☐	1250.000	1236.391	6016638.21	1.3100	A	3.1
6	☐	2500.000	2530.737	12073948.19	2.6811	A	6.4
7	☐	5000.000	4987.219	24396313.97	5.2833	A	3.3
8	☐			9058.89	0.0021	P	1.9

$$y = 0.0011 * x + 2.6872E-004$$

R = 1.0000

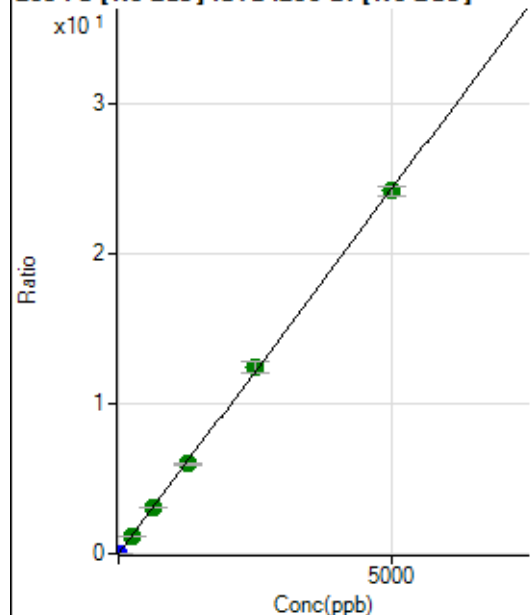
DL = 0.04963

BEC = 0.2537

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	5154.19	0.0011	P	5.3
2	☐	1.000	0.977	25967.97	0.0059	P	2.0
3	☐	250.000	239.432	5360738.85	1.1634	A	1.1
4	☐	625.000	631.850	13779416.83	3.0683	A	2.8
5	☐	1250.000	1231.332	27461471.51	5.9783	A	1.9
6	☐	2500.000	2554.668	55868564.10	12.4021	A	5.6
7	☐	5000.000	4977.005	111567589.7	24.1607	A	2.4
8	☐			40211.86	0.0093	P	1.8

$$y = 0.0049 * x + 0.0011$$

R = 0.9999

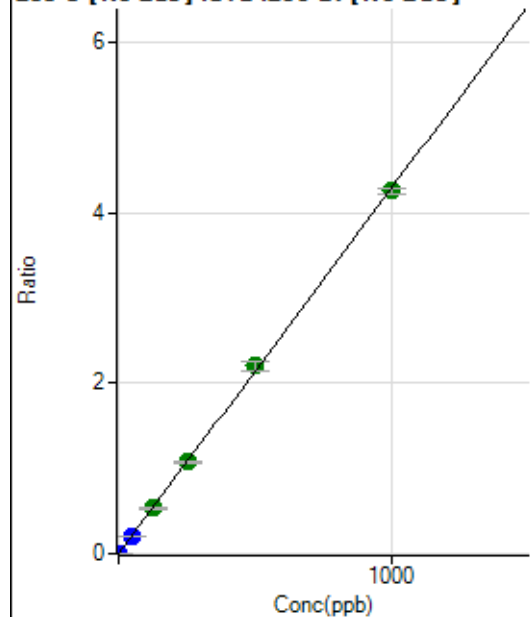
DL = 0.03788

BEC = 0.2367

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	91.67	0.0000	P	27.3
2	☐	1.000	0.964	18305.30	0.0042	P	2.8
3	☐	50.000	46.156	911477.43	0.1978	P	0.4
4	☐	125.000	124.292	2391757.13	0.5326	A	3.9
5	☐	250.000	250.510	4930918.90	1.0734	A	1.6
6	☐	500.000	514.671	9936086.07	2.2053	A	5.1
7	☐	1000.000	992.818	19644182.90	4.2542	A	1.4
8	☐			1944.66	0.0005	P	13.2

$$y = 0.0043 * x + 2.0432E-005$$

$$R = 0.9998$$

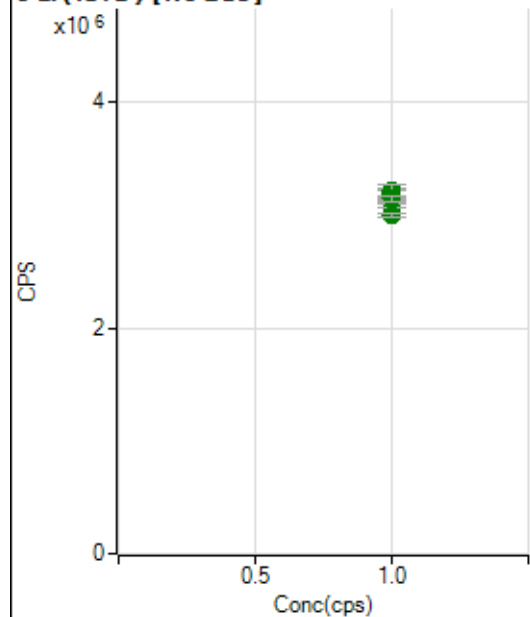
$$DL = 0.003907$$

$$BEC = 0.004768$$

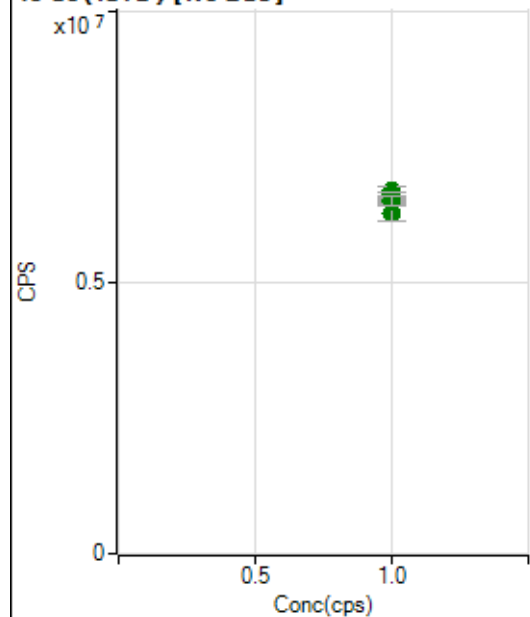
Weight: <None>

Min Conc: 0

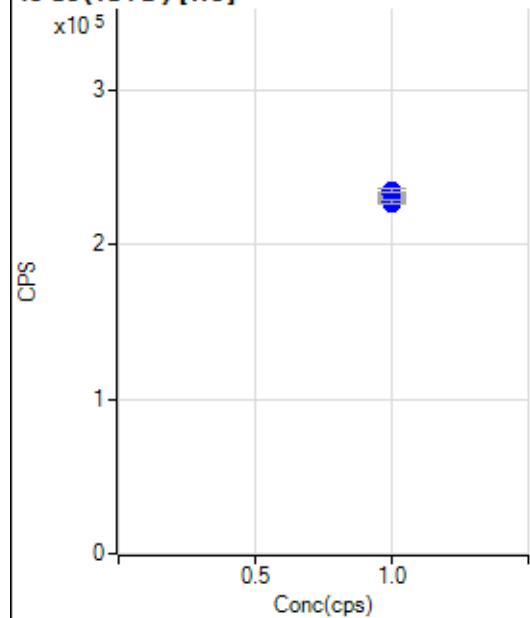
6 Li (ISTD) [No Gas]



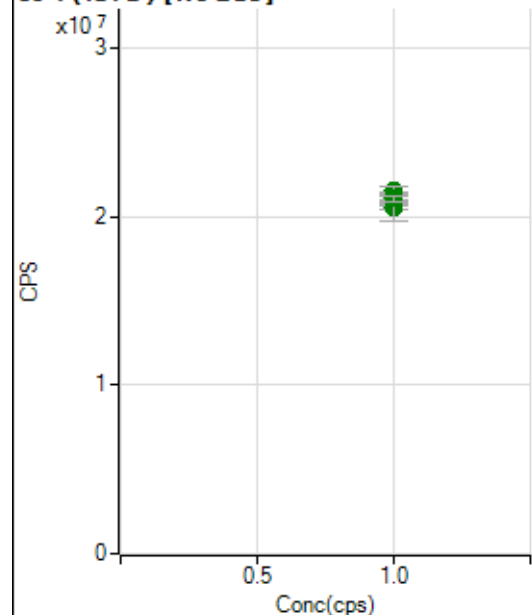
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3176263.55		A	2.9
2	☐	1.000		3121407.95		A	1.2
3	☐	1.000		3201731.61		A	2.5
4	☐	1.000		3212241.62		A	3.8
5	☐	1.000		3212099.04		A	3.4
6	☐	1.000		3017546.41		A	3.0
7	☐	1.000		3145018.88		A	1.5
8	☐	1.000		2992158.33		A	0.9

45 Sc (ISTD) [No Gas]

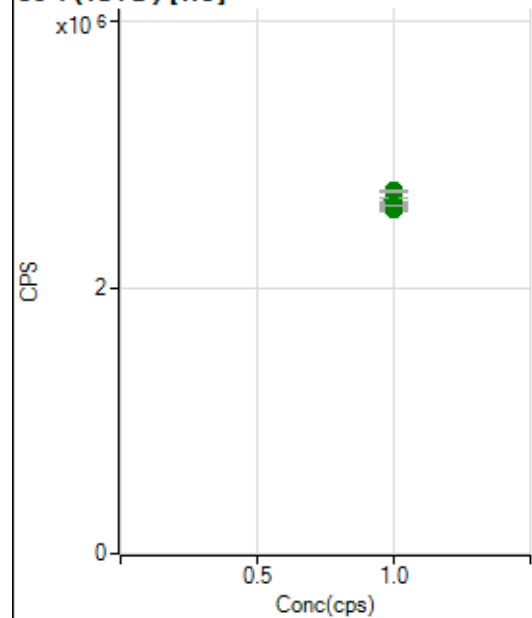
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6478422.54		A	1.6
2	☐	1.000		6505509.49		A	1.8
3	☐	1.000		6686561.91		A	2.5
4	☐	1.000		6551117.68		A	1.7
5	☐	1.000		6608711.43		A	1.3
6	☐	1.000		6279616.23		A	5.1
7	☐	1.000		6615957.96		A	1.7
8	☐	1.000		6492270.11		A	2.8

45 Sc (ISTD) [He]

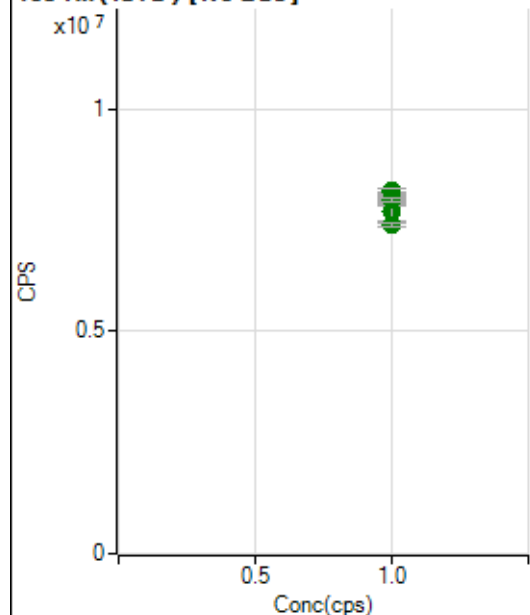
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		232360.24		P	1.0
2	☐	1.000		231649.41		P	0.6
3	☐	1.000		232825.69		P	1.3
4	☐	1.000		230071.79		P	1.4
5	☐	1.000		229932.52		P	0.6
6	☐	1.000		226515.84		P	0.5
7	☐	1.000		227592.47		P	0.8
8	☐	1.000		234680.07		P	1.0

89 Y (ISTD) [No Gas]

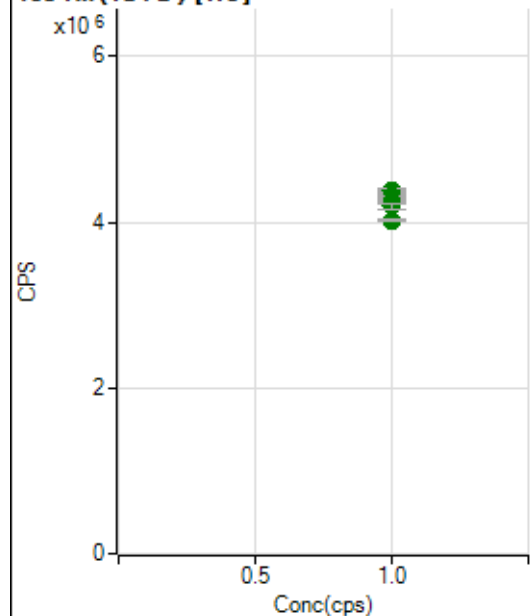
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20607140.80		A	1.0
2	☐	1.000		20896739.83		A	0.9
3	☐	1.000		21202988.57		A	2.2
4	☐	1.000		21204112.60		A	1.8
5	☐	1.000		20929836.77		A	0.5
6	☐	1.000		20508968.72		A	6.7
7	☐	1.000		21553244.96		A	2.2
8	☐	1.000		21087524.96		A	1.7

89 Y (ISTD) [He]

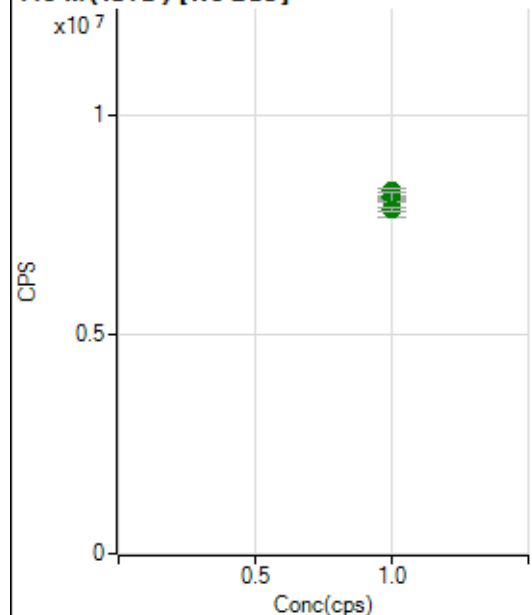
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2625325.79		A	1.3
2	☐	1.000		2592310.50		A	2.1
3	☐	1.000		2659489.68		A	1.2
4	☐	1.000		2601033.17		A	1.5
5	☐	1.000		2611065.42		A	0.7
6	☐	1.000		2618228.88		A	1.2
7	☐	1.000		2614522.34		A	0.1
8	☐	1.000		2724959.78		A	0.3

103 Rh (ISTD) [No Gas]

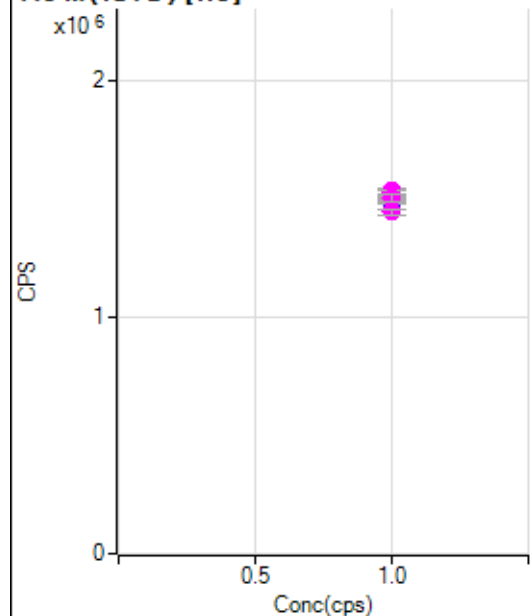
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7960279.35		A	3.8
2	☐	1.000		8045886.55		A	2.5
3	☐	1.000		8160772.93		A	1.3
4	☐	1.000		8149407.99		A	1.6
5	☐	1.000		8006514.59		A	0.8
6	☐	1.000		7687403.12		A	4.8
7	☐	1.000		7958681.77		A	1.2
8	☐	1.000		7395146.08		A	0.7

103 Rh (ISTD) [He]

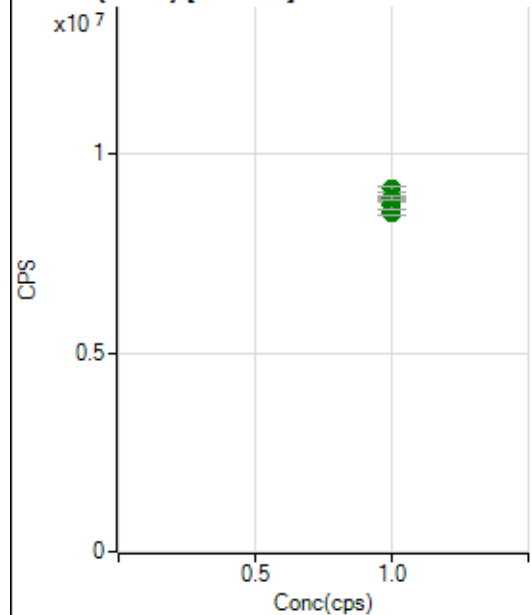
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4373583.37		A	0.6
2	☐	1.000		4317241.88		A	0.8
3	☐	1.000		4375071.18		A	1.3
4	☐	1.000		4256063.76		A	1.0
5	☐	1.000		4305456.64		A	0.7
6	☐	1.000		4233520.14		A	0.7
7	☐	1.000		4187785.32		A	1.4
8	☐	1.000		4018696.51		A	0.8

115 In (ISTD) [No Gas]

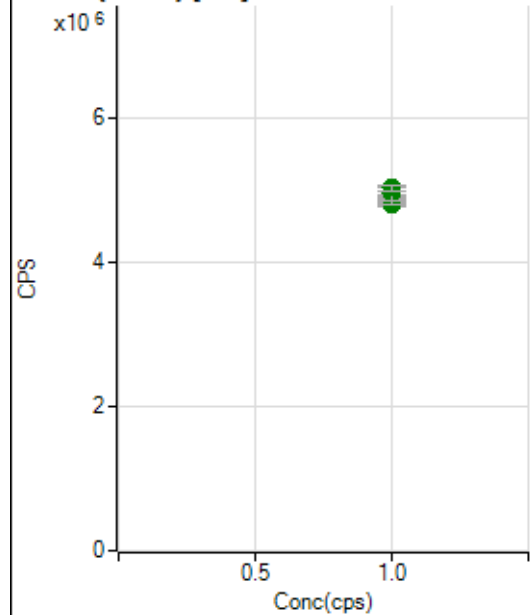
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8084747.54		A	0.8
2	☐	1.000		8066903.99		A	0.5
3	☐	1.000		8096197.02		A	1.2
4	☐	1.000		8164122.07		A	1.7
5	☐	1.000		8262715.86		A	1.2
6	☐	1.000		7859972.81		A	5.3
7	☐	1.000		8119250.61		A	2.3
8	☐	1.000		7825355.21		A	1.0

115 In (ISTD) [He]

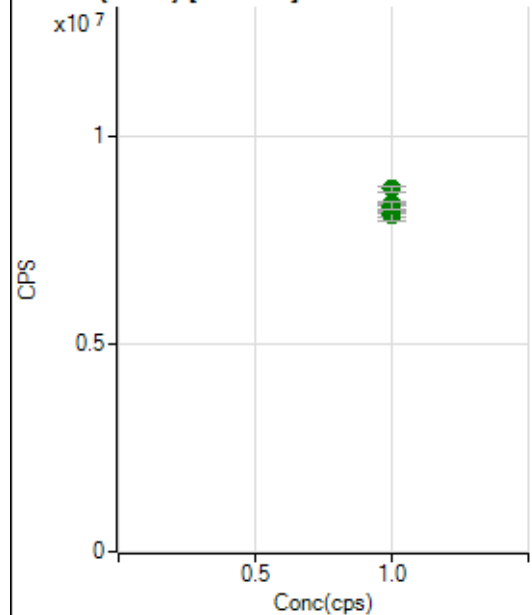
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1532495.07		M	1.6
2	☐	1.000		1508381.51		M	1.5
3	☐	1.000		1527729.77		M	0.8
4	☐	1.000		1504150.08		M	0.7
5	☐	1.000		1491601.86		P	0.4
6	☐	1.000		1477766.70		P	0.4
7	☐	1.000		1442095.23		M	1.2
8	☐	1.000		1501441.62		M	2.3

159 Tb (ISTD) [No Gas]

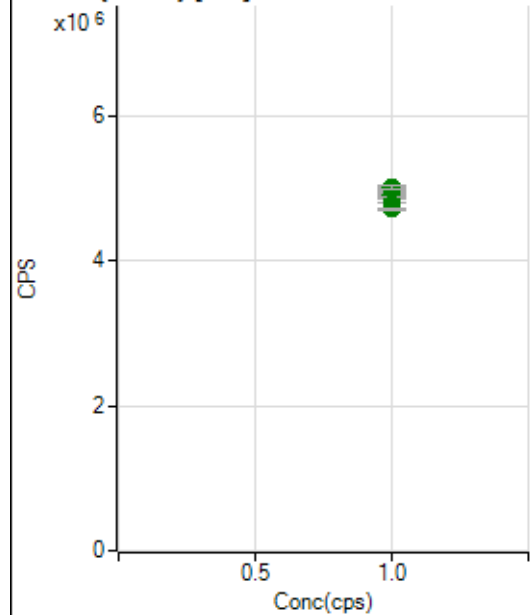
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8551410.22		A	1.4
2	☐	1.000		8536505.36		A	1.5
3	☐	1.000		8724267.09		A	2.2
4	☐	1.000		8888994.59		A	2.0
5	☐	1.000		8873219.24		A	1.1
6	☐	1.000		8763584.32		A	3.2
7	☐	1.000		9132791.60		A	1.4
8	☐	1.000		8889719.73		A	1.1

159 Tb (ISTD) [He]

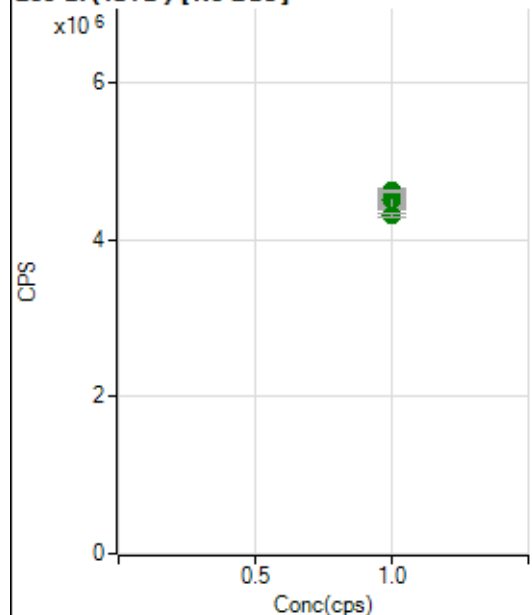
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4796014.30		A	1.0
2	☐	1.000		4818271.46		A	0.3
3	☐	1.000		4894149.03		A	1.8
4	☐	1.000		4872731.28		A	0.9
5	☐	1.000		4874130.28		A	0.1
6	☐	1.000		4844683.23		A	1.5
7	☐	1.000		4946796.07		A	3.4
8	☐	1.000		5031159.20		A	1.8

165 Ho (ISTD) [No Gas]

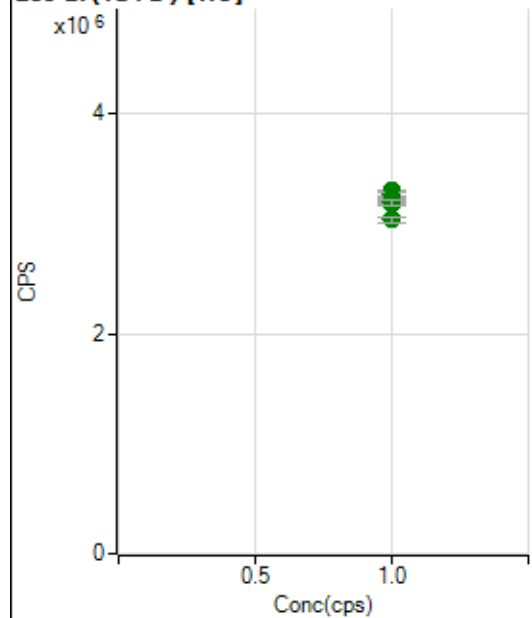
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8113239.76		A	1.3
2	☐	1.000		8251291.94		A	2.4
3	☐	1.000		8281299.66		A	0.9
4	☐	1.000		8273545.93		A	1.9
5	☐	1.000		8349707.83		A	0.8
6	☐	1.000		8155993.33		A	5.2
7	☐	1.000		8722961.74		A	1.6
8	☐	1.000		8319048.97		A	1.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4717519.55		A	0.5
2	☐	1.000		4847023.99		A	2.3
3	☐	1.000		4871523.50		A	0.4
4	☐	1.000		4848464.79		A	1.7
5	☐	1.000		4867059.51		A	0.7
6	☐	1.000		4910400.07		A	1.0
7	☐	1.000		4988473.40		A	1.1
8	☐	1.000		5004790.03		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4486061.43		A	0.7
2	☐	1.000		4409466.08		A	1.3
3	☐	1.000		4608247.74		A	1.4
4	☐	1.000		4492107.26		A	2.0
5	☐	1.000		4594292.99		A	1.6
6	☐	1.000		4513554.17		A	5.3
7	☐	1.000		4617909.37		A	0.6
8	☐	1.000		4306016.46		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3184998.84		A	0.9
2	☐	1.000		3201057.07		A	2.5
3	☐	1.000		3280395.40		A	1.4
4	☐	1.000		3295987.07		A	0.4
5	☐	1.000		3263147.83		A	1.8
6	☐	1.000		3226011.66		A	0.6
7	☐	1.000		3189939.85		A	2.0
8	☐	1.000		3037853.36		A	1.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8101321MS.b
Acq. Date-Time 2021-10-13 11:39:02
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		12637	126370.99			0.460	5.000
24		111362	1113618.98			0.567	5.000
25		14848	148483.19			1.135	5.000
26		16959	169594.90			0.701	5.000
59		29991	299914.19			1.355	5.000
113		12422	124219.27			1.247	5.000
115		43575	435750.00			1.358	5.000
206		13752	137523.65			2.175	5.000
207		11574	115736.53			2.144	5.000
208		28347	283466.27			2.106	5.000
220		1	8.10			20.192	

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

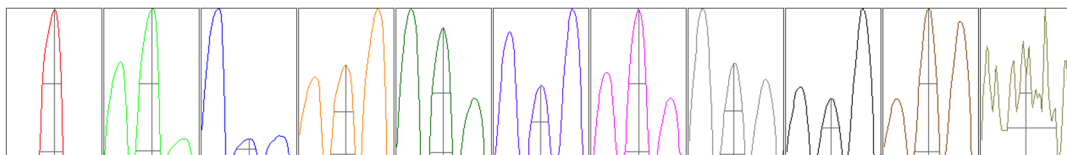
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12684	12609	12574	12712	12606
24	110431	111945	111160	111951	111322
25	14760	14674	14773	14938	15097
26	16919	16878	16887	17167	16947
59	29768	29625	29700	30399	30465
113	12302	12300	12328	12564	12616
115	44225	43672	43502	43844	42632
206	13522	13436	13703	14161	13940
207	11363	11311	11552	11892	11750
208	27737	27918	28113	29039	28926

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	23146.57	9.05	8.90 - 9.10	
24	194101.51	24.05	23.90 - 24.10	
25	25847.54	25.05	24.90 - 25.10	
26	29765.60	26.00	25.90 - 26.10	
59	55762.27	59.00	58.90 - 59.10	
113	24094.14	113.00	112.90 - 113.10	
115	84775.19	115.05	114.90 - 115.10	
206	25649.23	205.95	205.90 - 206.10	
207	21648.94	206.95	206.90 - 207.10	
208	53477.29	207.95	207.90 - 208.10	
220	0.90	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.736	0.900	
24	0.60	0.783	0.900	
25	0.60	0.784	0.900	
26	0.61	0.781	0.900	
59	0.57	0.736	0.900	
113	0.54	0.729	0.900	
115	0.54	0.759	0.900	
206	0.56	0.782	0.900	
207	0.56	0.784	0.900	
208	0.56	0.799	0.900	
220	0.37	1.547		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

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RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.6 V	Deflect	15.8 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.8 mV	Analog HV	2264 V	Pulse HV	1546 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7203	72027.07			0.324	
89		22323	223227.97			0.975	
205		14820	148197.73			0.927	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7219	7163	7202	7217	7212
89	22596	22486	22305	22110	22117
205	14732	14721	15052	14758	14836

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.6 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-185.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	3.8 mV	Analog HV	2264 V	Pulse HV	1546 V