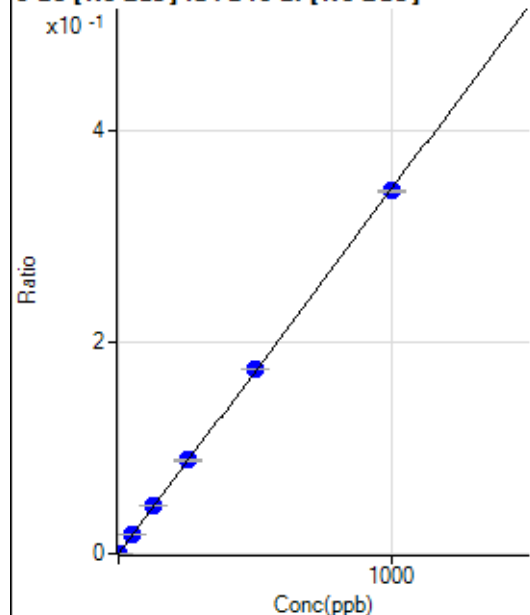


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8031721MS.b\
Analysis File: P8031721MS.batch.bin
DA Date-Time: 2021-03-17 16:37:24
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-03-17 13:06:47
2	004CALS.d	S01	2021-03-17 13:09:58
3	005CALS.d	S02	2021-03-17 13:13:06
4	006CALS.d	S03	2021-03-17 13:16:18
5	008CALS.d	S04	2021-03-17 13:23:53
6	009CALS.d	S05	2021-03-17 13:26:55
7	010CALS.d	S06	2021-03-17 13:29:56
8	011CALS.d	S07	2021-03-17 13:32:54
9	013CALS.d	S08	2021-03-17 13:42:25

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29.99	0.0000	P	23.7
2	☐	0.100	0.094	104.65	0.0000	P	8.5
3	☐	1.000	1.047	867.19	0.0004	P	3.8
4	☐	50.000	52.049	42232.44	0.0180	P	2.0
5	☐	125.000	129.923	106006.78	0.0449	P	1.0
6	☐	250.000	256.383	211137.10	0.0885	P	2.1
7	☐	500.000	505.425	413971.22	0.1745	P	0.3
8	☐	1000.000	994.974	831863.18	0.3435	P	0.9
9	☐			112.64	0.0000	P	16.1

$$y = 3.4520\text{E-}004 * x + 1.2930\text{E-}005$$

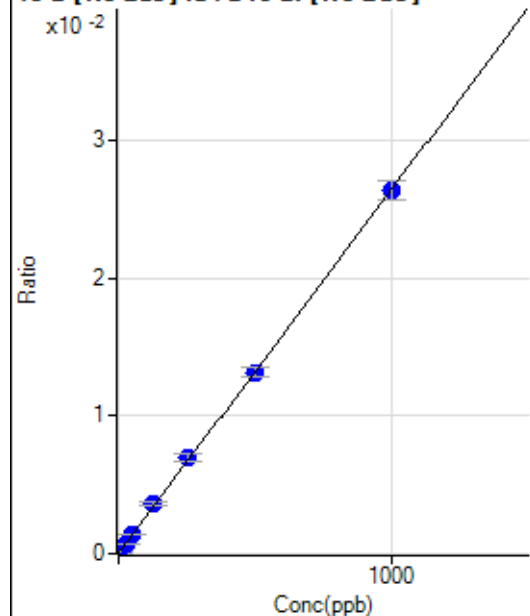
$$R = 0.9999$$

$$DL = 0.02662$$

$$BEC = 0.03746$$

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	55.32	0.0000	P	3.1
2	☐	2.500	2.716	221.29	0.0001	P	5.9
3	☐	25.000	24.441	1556.45	0.0007	P	9.2
4	☐	50.000	51.334	3243.72	0.0014	P	6.0
5	☐	125.000	135.697	8538.15	0.0036	P	5.1
6	☐	250.000	261.770	16552.05	0.0069	P	8.3
7	☐	500.000	498.430	31333.12	0.0132	P	5.3
8	☐	1000.000	996.452	63926.22	0.0264	P	5.3
9	☐			2761.06	0.0011	P	4.7

$$y = 2.6443\text{E-}005 * x + 2.3853\text{E-}005$$

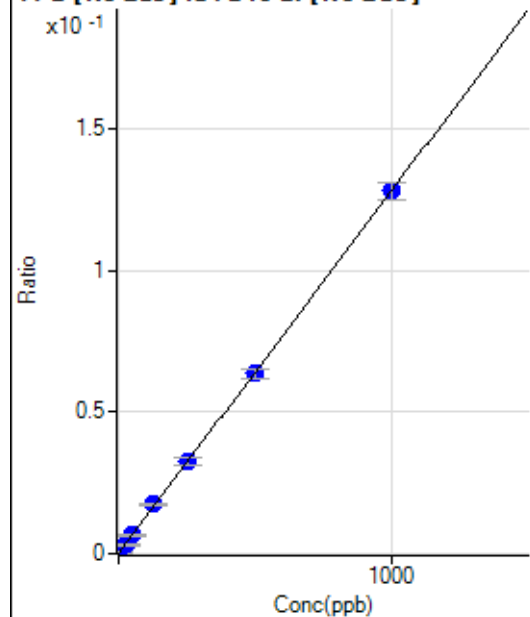
$$R = 0.9999$$

$$DL = 0.08333$$

$$BEC = 0.902$$

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	243.96	0.0001	P	5.5
2	☐	2.500	2.253	911.18	0.0004	P	6.8
3	☐	25.000	23.119	7119.67	0.0031	P	6.6
4	☐	50.000	49.860	15249.57	0.0065	P	6.3
5	☐	125.000	134.574	41003.53	0.0173	P	6.2
6	☐	250.000	255.230	78179.52	0.0328	P	7.8
7	☐	500.000	495.162	150790.39	0.0635	P	5.9
8	☐	1000.000	999.969	310742.59	0.1282	P	4.6
9	☐			13018.51	0.0050	P	4.6

$$y = 1.2811\text{E-}004 * x + 1.0523\text{E-}004$$

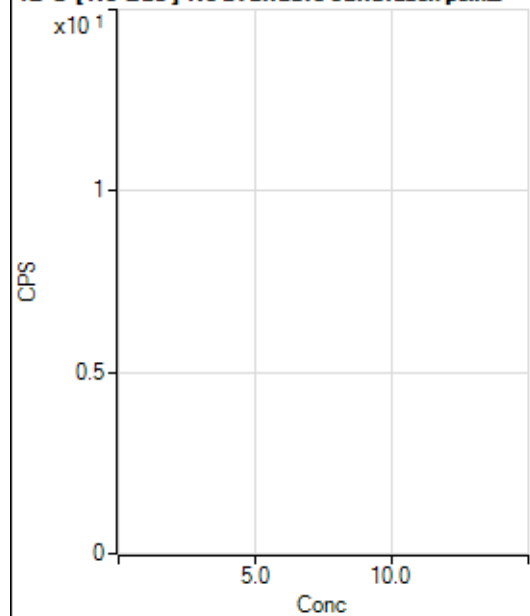
$$R = 0.9999$$

$$DL = 0.1354$$

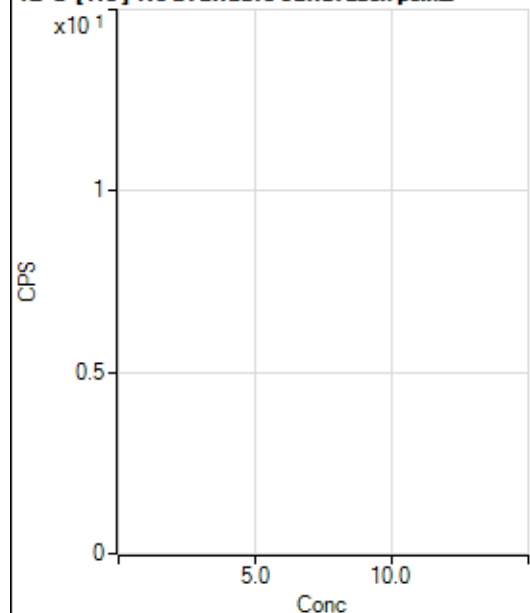
$$BEC = 0.8213$$

Weight: <None>

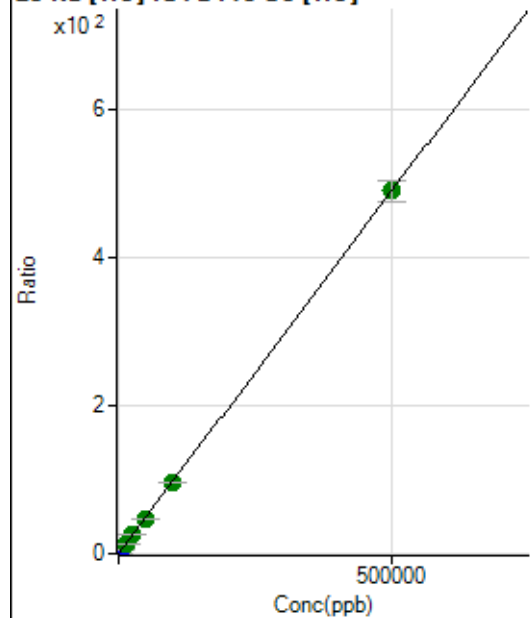
Min Conc: 0

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	☐						
9	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19363.29	0.1416	P	4.6
2	☐	50.000	58.346	26510.68	0.1986	P	2.1
3	☐	500.000	509.408	87235.52	0.6393	P	2.6
4	☐	5000.000	5107.886	702385.68	5.1322	P	0.6
5	☐	12500.000	12966.610	1760019.33	12.8104	A	1.5
6	☐	25000.000	25500.024	3409553.94	25.0560	A	1.7
7	☐	50000.000	48310.555	6585553.66	47.3426	A	1.1
8	☐	100000.00	98106.995	13317542.14	95.9954	A	1.3
9	☐	500000.00	500509.79	64155515.32	489.1564	A	6.1

$$y = 9.7703\text{E-}004 * x + 0.1416$$

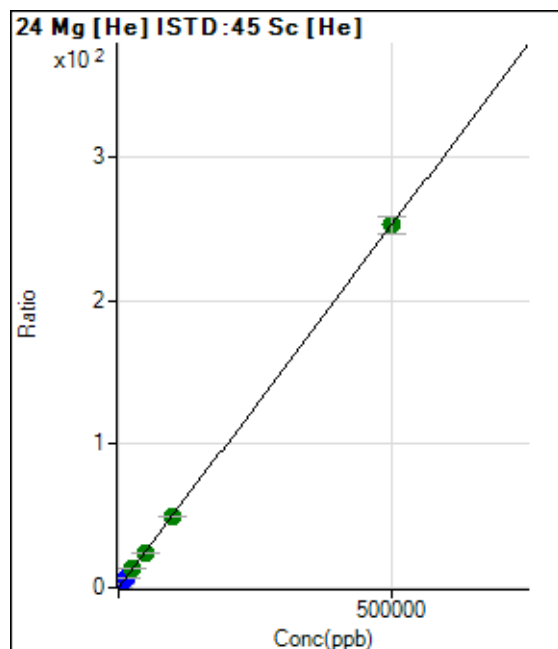
$$R = 1.0000$$

$$DL = 19.91$$

$$BEC = 145$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	408.35	0.0030	P	13.3
2	☐	50.000	50.279	3786.71	0.0284	P	5.1
3	☐	500.000	500.599	34903.45	0.2558	P	3.1
4	☐	5000.000	5192.464	359255.85	2.6250	P	0.4
5	☐	12500.000	13037.067	904828.29	6.5863	P	1.0
6	☐	25000.000	25924.433	1781831.83	13.0940	A	1.2
7	☐	50000.000	48850.938	3431852.94	24.6712	A	0.8
8	☐	100000.00	98477.536	6899122.73	49.7311	A	0.5
9	☐	500000.00	500357.82	33151653.87	252.6681	A	4.7

$$y = 5.0497\text{E-}004 * x + 0.0030$$

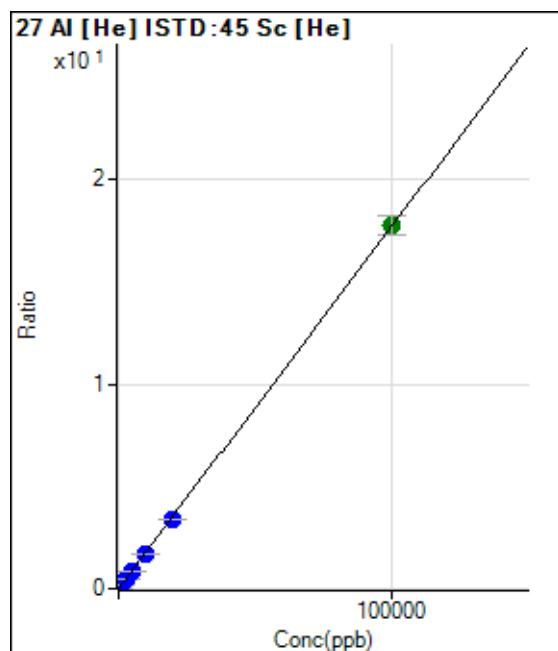
$$R = 1.0000$$

$$DL = 2.354$$

$$BEC = 5.909$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	364.96	0.0027	P	4.7
2	☒	2.000					
3	☐	20.000	20.449	858.25	0.0063	P	1.9
4	☐	1000.000	976.779	24018.38	0.1755	P	1.4
5	☐	2500.000	2453.654	60014.65	0.4368	P	0.4
6	☐	5000.000	4973.574	120126.49	0.8827	P	0.8
7	☐	10000.000	9485.429	233846.49	1.6811	P	0.8
8	☐	20000.000	19149.665	470444.49	3.3912	P	0.9
9	☐	100000.00	100224.23	2326887.32	17.7371	A	5.2

$$y = 1.7695\text{E-}004 * x + 0.0027$$

$$R = 1.0000$$

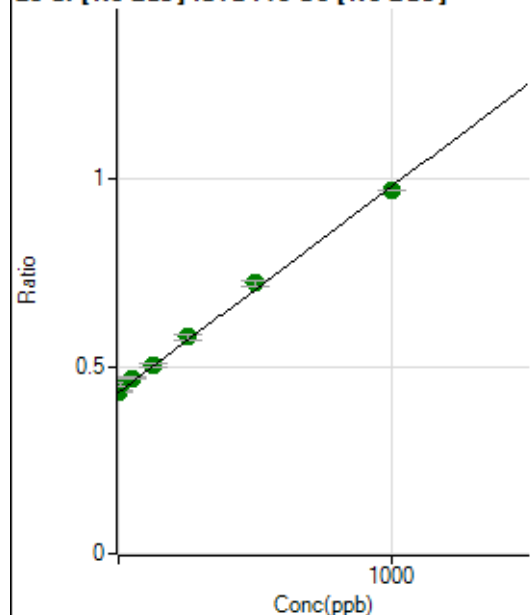
$$DL = 2.125$$

$$BEC = 15.09$$

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	1274191.70	0.4314	A	0.6
2	☐	1.000	6.873	1288339.76	0.4352	A	0.7
3	☐	10.000	41.676	1331496.99	0.4543	A	2.4
4	☐	50.000	67.790	1400446.87	0.4687	A	1.2
5	☐	125.000	131.632	1514660.24	0.5039	A	1.6
6	☐	250.000	268.917	1761331.85	0.5794	A	2.2
7	☐	500.000	530.018	2231512.48	0.7232	A	1.9
8	☐	1000.000	978.221	3069518.60	0.9699	A	0.1
9	☐			1350491.32	0.4428	A	1.5

$$y = 5.5048\text{E-}004 * x + 0.4314$$

$$R = 0.9990$$

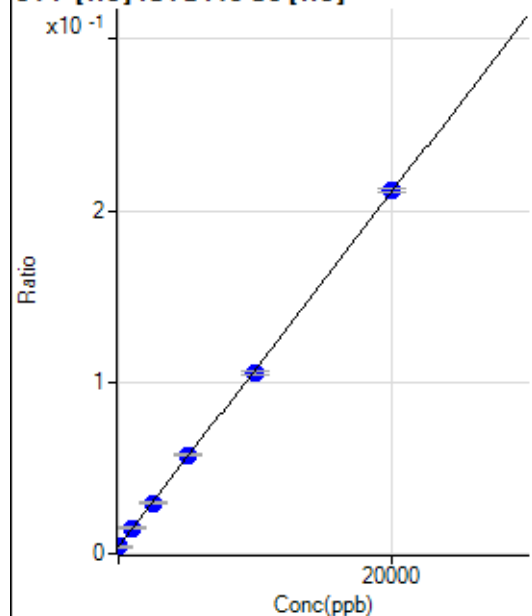
$$DL = 13.47$$

$$BEC = 783.7$$

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	4.809	566.69	0.0041	P	9.9
2	☐	0.000	1.155	547.25	0.0041	P	9.4
3	☐	0.000	-5.964	550.02	0.0040	P	16.9
4	☐	1000.000	1031.793	2019.64	0.0148	P	8.2
5	☐	2500.000	2457.937	4050.69	0.0295	P	3.8
6	☐	5000.000	5191.779	7855.09	0.0577	P	2.6
7	☐	10000.000	9762.070	14599.33	0.1050	P	2.0
8	☐	20000.000	20074.688	29341.26	0.2115	P	1.1
9	☐			447.25	0.0034	P	11.8

$$y = 1.0332\text{E-}005 * x + 0.0041$$

$$R = 0.9999$$

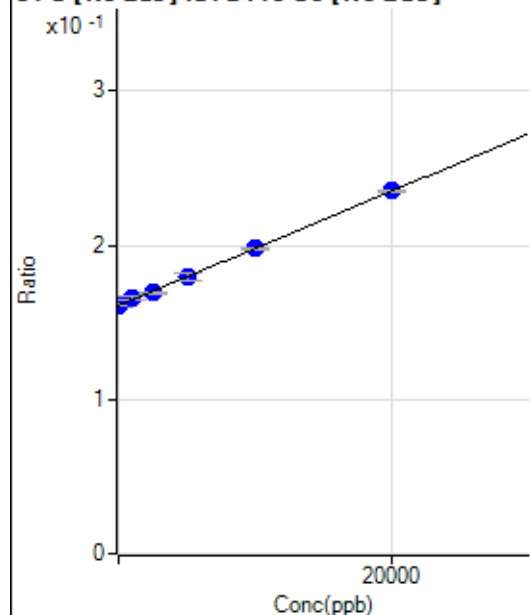
$$DL = 143.1$$

$$BEC = 395.9$$

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	-38.474	475043.51	0.1608	P	1.1
2	☐	0.000	-6.444	476496.83	0.1610	P	0.3
3	☐	0.000	44.918	472306.67	0.1611	P	0.7
4	☐	1000.000	1329.333	495692.44	0.1659	P	1.9
5	☐	2500.000	2223.547	508722.30	0.1692	P	0.9
6	☐	5000.000	5073.057	546469.73	0.1798	P	3.2
7	☐	10000.000	9967.077	610965.87	0.1980	P	0.6
8	☐	20000.000	20016.287	744679.92	0.2353	P	0.6
9	☐			447930.07	0.1469	P	0.9

$$y = 3.7128\text{E-}006 * x + 0.1610$$

$$R = 0.9997$$

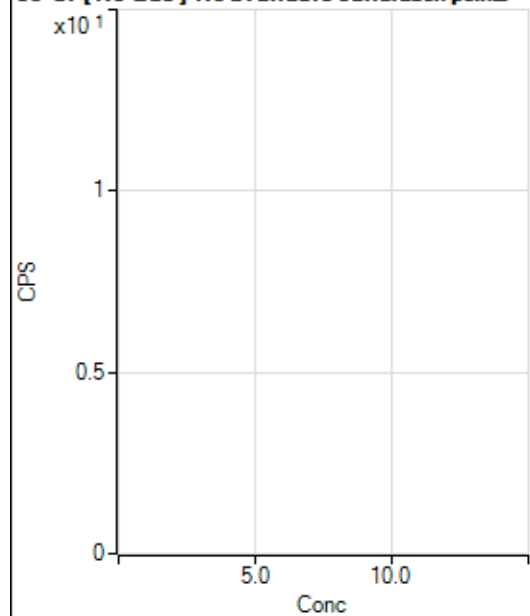
$$DL = 872.3$$

$$BEC = 4.336\text{E}+04$$

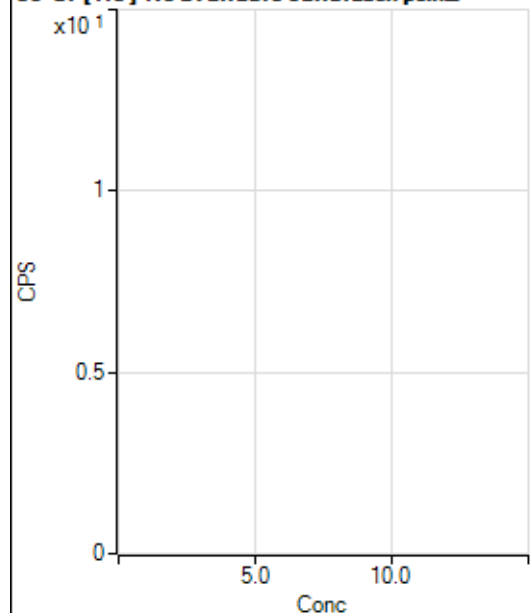
Weight: <None>

Min Conc: 0

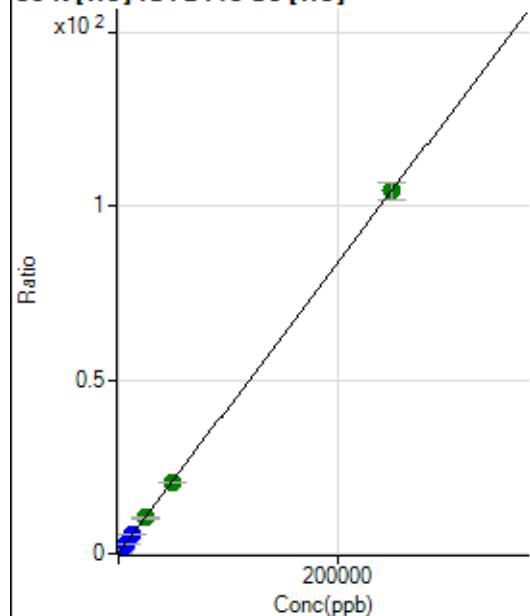
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25698.46	0.1879	P	0.9
2	☐	50.000	64.365	28651.29	0.2147	P	4.9
3	☐	500.000	479.347	52861.08	0.3874	P	1.6
4	☐	2500.000	2488.655	167441.07	1.2235	P	0.6
5	☐	6250.000	6252.815	383270.74	2.7897	P	0.4
6	☐	12500.000	12735.726	746802.95	5.4873	P	0.2
7	☐	25000.000	24178.200	1425633.08	10.2486	A	0.4
8	☐	50000.000	48813.881	2843823.05	20.4996	A	1.5
9	☐	250000.00	250307.69	13691320.45	104.3419	A	4.5

$$y = 4.1610E-004 * x + 0.1879$$

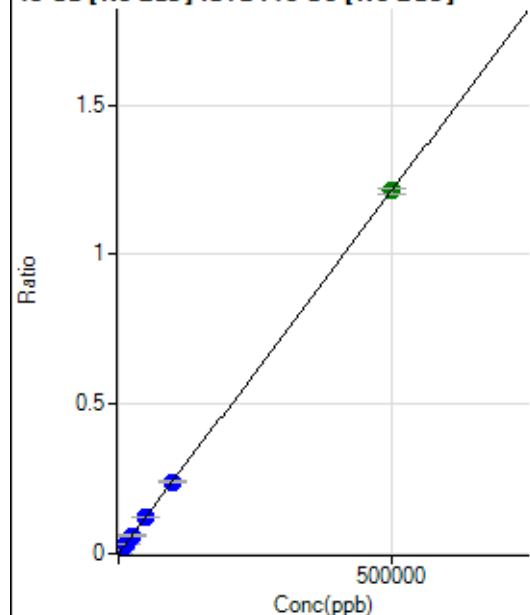
$$R = 1.0000$$

$$DL = 11.73$$

$$BEC = 451.6$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	377.46	0.0001	P	5.4
2	☐	50.000	46.265	710.35	0.0002	P	2.5
3	☐	500.000	487.249	3835.46	0.0013	P	1.4
4	☐	5000.000	4990.739	36519.90	0.0122	P	1.2
5	☐	12500.000	12591.503	92108.60	0.0306	P	1.8
6	☐	25000.000	25041.931	184821.58	0.0608	P	3.4
7	☐	50000.000	49289.784	369018.96	0.1196	P	0.9
8	☐	100000.00	98950.190	759357.22	0.2399	P	1.1
9	☐	500000.00	500276.70	3697890.32	1.2125	A	1.8

$$y = 2.4235E-006 * x + 1.2783E-004$$

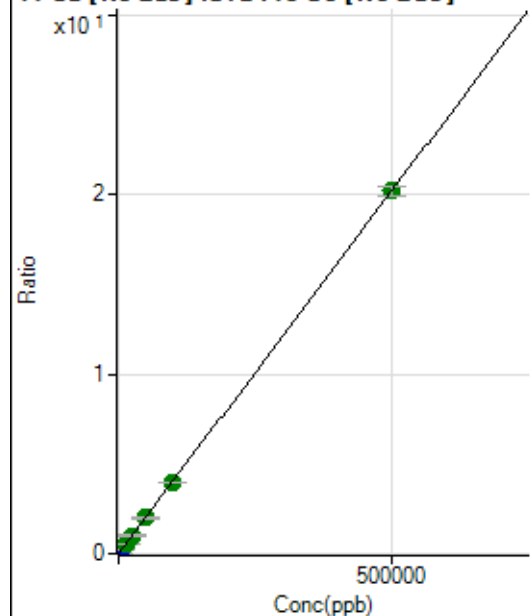
$$R = 1.0000$$

$$DL = 8.598$$

$$BEC = 52.75$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13975.49	0.0047	P	2.2
2	☐	50.000	51.361	20138.66	0.0068	P	1.2
3	☐	500.000	500.488	73008.87	0.0249	P	0.8
4	☐	5000.000	5030.449	620050.75	0.2075	P	2.1
5	☐	12500.000	12497.152	1528626.73	0.5086	A	2.1
6	☐	25000.000	24856.167	3060797.56	1.0068	A	2.4
7	☐	50000.000	49117.421	6125226.49	1.9850	A	1.6
8	☐	100000.00	98063.486	12527537.83	3.9583	A	0.9
9	☐	500000.00	500482.51	61547520.41	20.1824	A	2.3

$$y = 4.0316E-005 * x + 0.0047$$

$$R = 1.0000$$

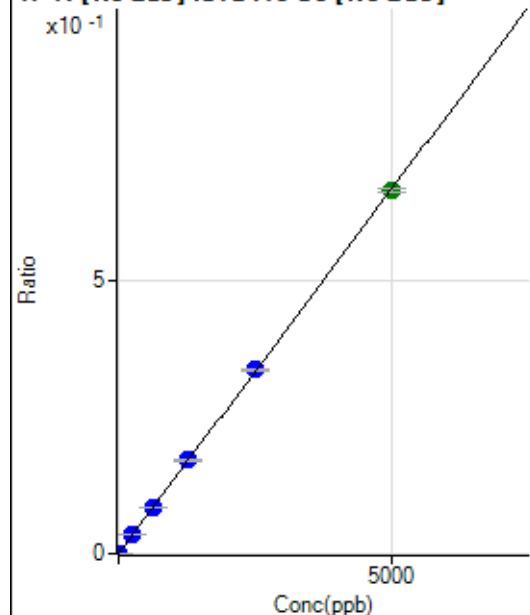
$$DL = 7.727$$

$$BEC = 117.4$$

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	338.90	0.0001	P	11.5
2	☐	0.500	0.752	636.15	0.0002	P	2.7
3	☐	5.000	4.995	2286.36	0.0008	P	5.2
4	☐	250.000	256.367	102377.86	0.0343	P	1.6
5	☐	625.000	642.399	257600.43	0.0857	P	0.4
6	☐	1250.000	1286.444	521236.52	0.1715	P	2.6
7	☐	2500.000	2521.464	1036896.32	0.3360	P	1.1
8	☐	5000.000	4977.664	2098948.18	0.6632	A	0.9
9	☐			500.02	0.0002	P	20.7

$$y = 1.3321\text{E-}004 * x + 1.1466\text{E-}004$$

$$R = 1.0000$$

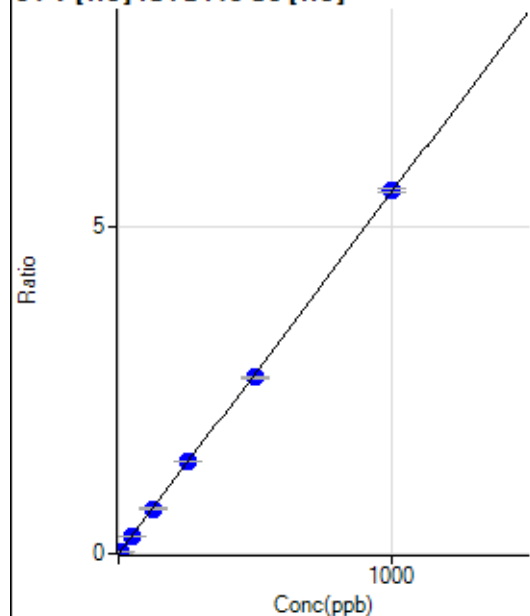
$$DL = 0.2979$$

$$BEC = 0.8608$$

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	8.89	0.0001	P	44.6
2	☐	0.500	0.521	393.34	0.0029	P	7.1
3	☐	5.000	4.932	3729.42	0.0273	P	1.0
4	☐	50.000	49.339	37333.07	0.2728	P	0.5
5	☐	125.000	124.982	94909.51	0.6909	P	1.2
6	☐	250.000	255.146	191914.53	1.4103	P	1.4
7	☐	500.000	488.076	375264.40	2.6977	P	1.0
8	☐	1000.000	1004.711	770384.70	5.5533	P	1.0
9	☐			100.00	0.0008	P	15.8

$$y = 0.0055 * x + 6.5250\text{E-}005$$

$$R = 0.9999$$

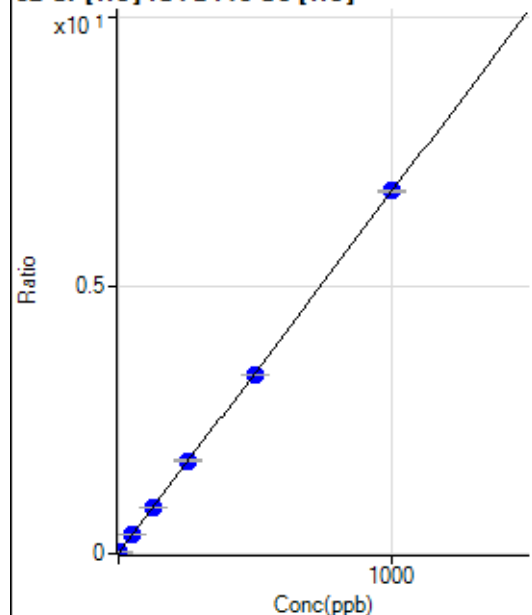
$$DL = 0.0158$$

$$BEC = 0.01181$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	776.69	0.0057	P	11.0
2	☐	0.500	0.167	907.82	0.0068	P	6.8
3	☐	2.000	2.063	2674.72	0.0196	P	2.0
4	☐	50.000	50.220	47173.12	0.3447	P	0.3
5	☐	125.000	125.803	117448.49	0.8549	P	0.7
6	☐	250.000	255.786	235731.00	1.7324	P	1.5
7	☐	500.000	492.033	462824.64	3.3271	P	0.1
8	☐	1000.000	1002.426	939548.45	6.7725	P	0.5
9	☐			6533.78	0.0498	P	5.0

$$y = 0.0068 * x + 0.0057$$

$$R = 0.9999$$

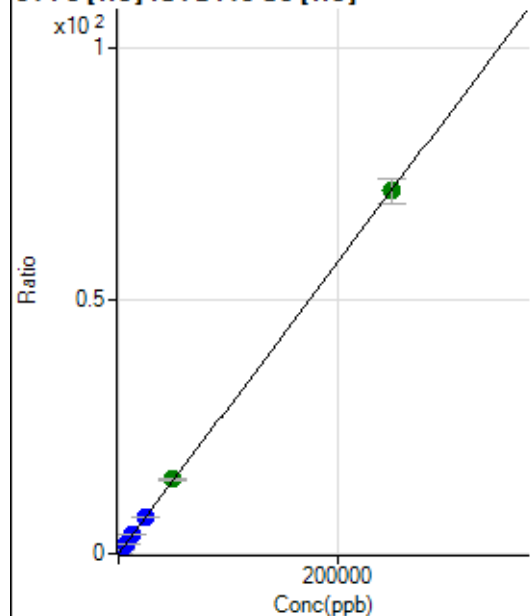
$$DL = 0.2781$$

$$BEC = 0.8406$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	425.94	0.0031	P	13.0
2	☐	5.000	5.237	616.69	0.0046	P	13.5
3	☐	50.000	54.385	2557.68	0.0187	P	6.3
4	☐	2500.000	2574.136	101646.01	0.7427	P	1.1
5	☐	6250.000	6502.004	257098.54	1.8713	P	0.7
6	☐	12500.000	13202.121	516608.14	3.7965	P	1.5
7	☐	25000.000	25273.706	1010594.76	7.2650	P	0.4
8	☐	50000.000	51375.540	2048189.88	14.7647	A	2.4
9	☐	250000.00	249655.37	9407279.26	71.7361	A	6.5

$$y = 2.8733E-004 * x + 0.0031$$

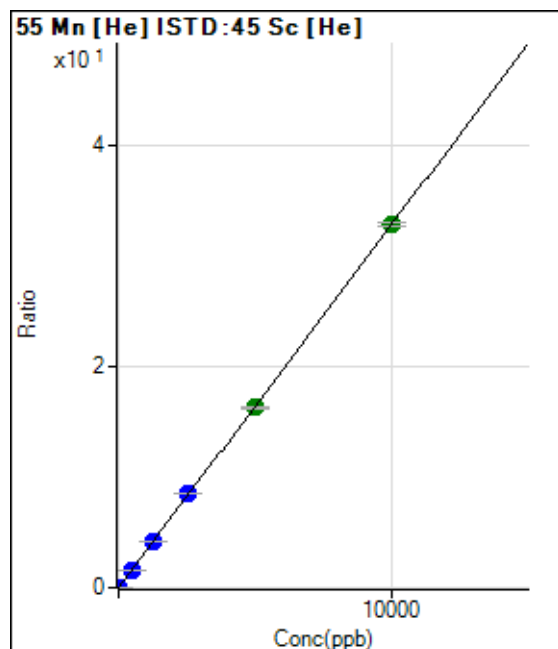
$$R = 1.0000$$

$$DL = 4.243$$

$$BEC = 10.85$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0003	P	20.6
2	☐	0.100	0.094	87.78	0.0007	P	20.8
3	☐	1.000	0.922	461.12	0.0034	P	9.1
4	☐	500.000	500.838	225299.91	1.6463	P	0.8
5	☐	1250.000	1271.709	574189.79	4.1796	P	1.0
6	☐	2500.000	2592.399	1159355.48	8.5198	P	1.3
7	☐	5000.000	4957.499	2266309.93	16.2922	A	0.7
8	☐	10000.000	9995.395	4556929.13	32.8482	A	0.9
9	☐			3075.92	0.0235	P	6.7

$$y = 0.0033 * x + 3.4911E-004$$

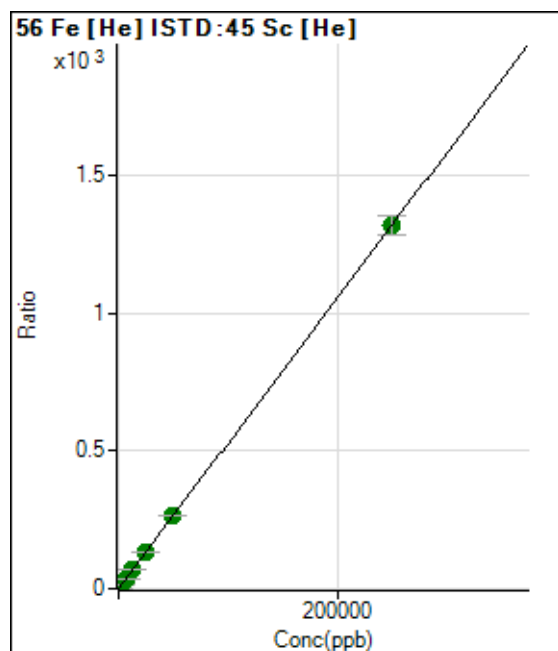
$$R = 0.9999$$

$$DL = 0.06552$$

$$BEC = 0.1062$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2265.03	0.0166	P	6.4
2	☐	50.000	5.232	5890.20	0.0441	P	2.6
3	☐	50.000	50.266	38400.04	0.2814	P	1.9
4	☐	2500.000	2554.650	1844586.11	13.4771	A	0.8
5	☐	6250.000	6336.447	4589165.21	33.4034	A	1.1
6	☐	12500.000	12846.895	9213365.66	67.7071	A	1.6
7	☐	25000.000	24647.431	18067758.16	129.8844	A	0.9
8	☐	50000.000	50236.832	36722621.65	264.7156	A	1.3
9	☐	250000.00	249967.84	172790226.0	1,317.102	A	5.2

$$y = 0.0053 * x + 0.0166$$

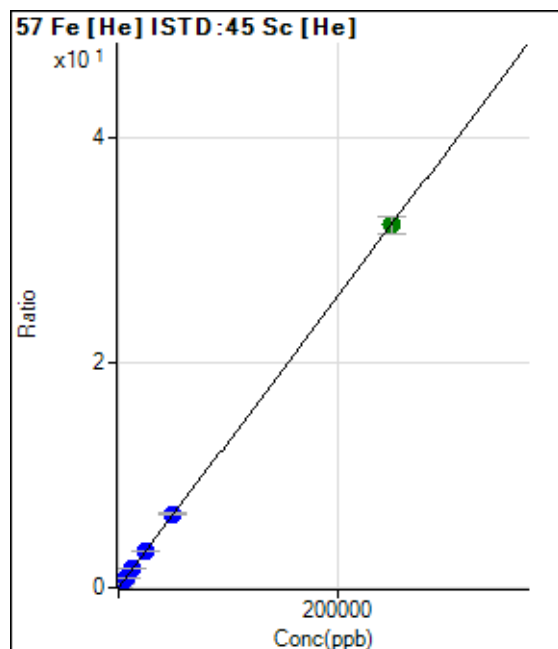
$$R = 1.0000$$

$$DL = 0.6073$$

$$BEC = 3.142$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	112.96	0.0008	P	21.0
2	☐	50.000	4.139	181.48	0.0014	P	7.6
3	☐	50.000	48.409	966.72	0.0071	P	5.3
4	☐	2500.000	2552.139	45264.60	0.3308	P	1.0
5	☐	6250.000	6395.309	113698.32	0.8276	P	0.9
6	☐	12500.000	12979.767	228458.68	1.6788	P	0.7
7	☐	25000.000	25062.395	450802.04	3.2408	P	0.8
8	☐	50000.000	50660.400	908644.55	6.5499	P	1.3
9	☐	250000.00	249833.54	4237742.54	32.2979	A	4.7

$$y = 1.2927\text{E-}004 * x + 8.2497\text{E-}004$$

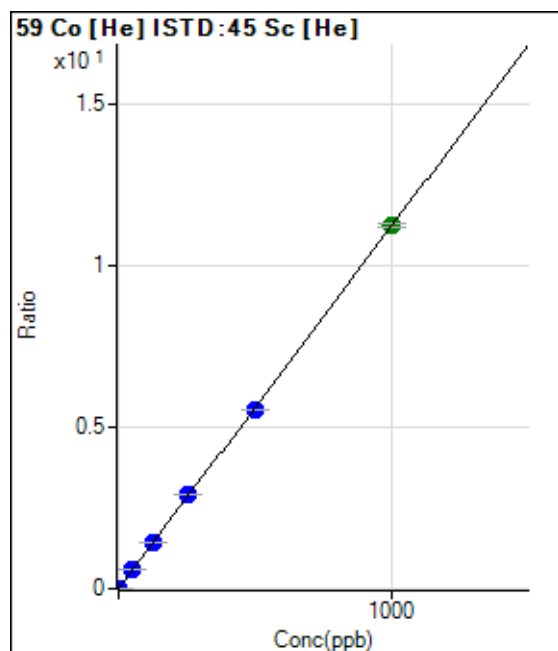
$$R = 1.0000$$

$$DL = 4.024$$

$$BEC = 6.382$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0003	P	25.5
2	☐	0.100	0.089	177.78	0.0013	P	8.7
3	☐	1.000	1.020	1609.00	0.0118	P	3.5
4	☐	50.000	50.737	78078.13	0.5705	P	0.8
5	☐	125.000	126.762	195760.19	1.4249	P	0.3
6	☐	250.000	259.019	396159.31	2.9112	P	1.1
7	☐	500.000	493.611	771685.68	5.5476	P	0.9
8	☐	1000.000	1000.683	1560127.63	11.2461	A	1.1
9	☐			2292.43	0.0175	P	6.3

$$y = 0.0112 * x + 3.2580\text{E-}004$$

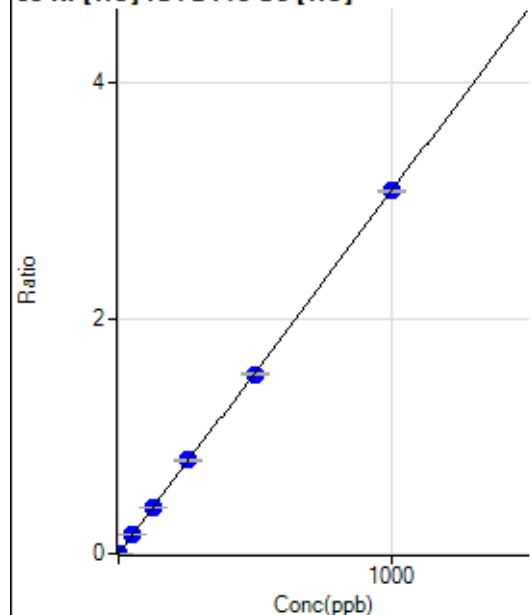
$$R = 0.9999$$

$$DL = 0.02219$$

$$BEC = 0.02899$$

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	27.78	0.0002	P	55.9
2	☐	0.100	0.107	71.11	0.0005	P	20.0
3	☐	1.000	1.009	452.23	0.0033	P	7.1
4	☐	50.000	50.808	21464.05	0.1568	P	0.8
5	☐	125.000	127.449	54006.37	0.3931	P	0.5
6	☐	250.000	257.758	108159.25	0.7948	P	1.4
7	☐	500.000	495.500	212516.13	1.5277	P	0.5
8	☐	1000.000	999.964	427690.72	3.0829	P	0.4
9	☐			1969.04	0.0150	P	2.0

$$y = 0.0031 * x + 2.0211E-004$$

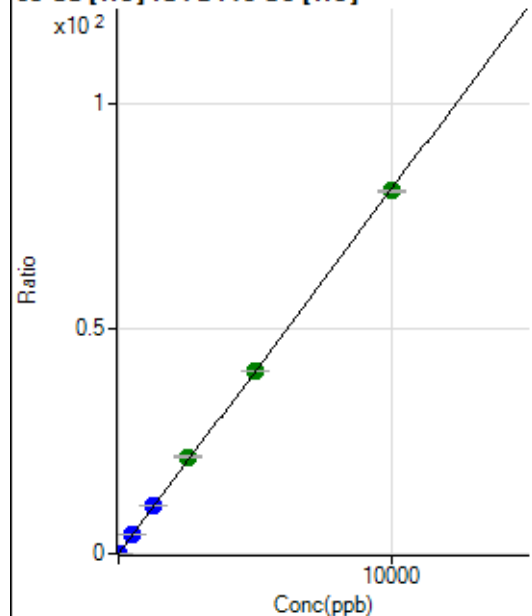
$$R = 1.0000$$

$$DL = 0.1099$$

$$BEC = 0.06556$$

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	388.90	0.0028	P	14.7
2	☐	0.200	0.235	634.47	0.0048	P	7.9
3	☐	2.000	2.118	2731.40	0.0200	P	1.9
4	☐	500.000	519.398	576465.04	4.2121	P	0.8
5	☐	1250.000	1304.280	1452547.24	10.5729	P	1.1
6	☐	2500.000	2645.556	2918759.64	21.4427	A	2.1
7	☐	5000.000	5015.046	5653951.16	40.6453	A	0.8
8	☐	10000.000	9948.333	11185078.17	80.6253	A	0.4
9	☐			6531.56	0.0498	P	6.5

$$y = 0.0081 * x + 0.0028$$

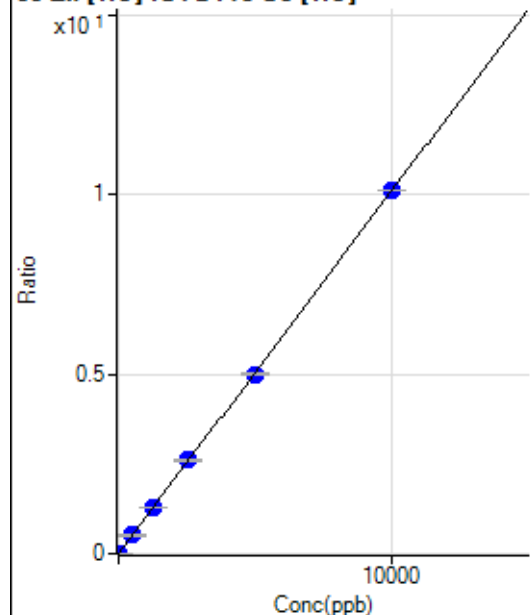
$$R = 0.9999$$

$$DL = 0.155$$

$$BEC = 0.3515$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.66	0.0005	P	21.6
2	☐	0.200	0.152	85.56	0.0006	P	29.5
3	☐	2.000	2.030	346.68	0.0025	P	11.9
4	☐	500.000	504.130	69798.29	0.5100	P	0.9
5	☐	1250.000	1274.587	177043.50	1.2887	P	1.3
6	☐	2500.000	2577.017	354500.69	2.6051	P	1.0
7	☐	5000.000	4945.366	695343.37	4.9987	P	0.6
8	☐	10000.000	10004.783	1402884.51	10.1122	P	0.2
9	☐			2141.30	0.0163	P	2.1

$$y = 0.0010 * x + 4.8671E-004$$

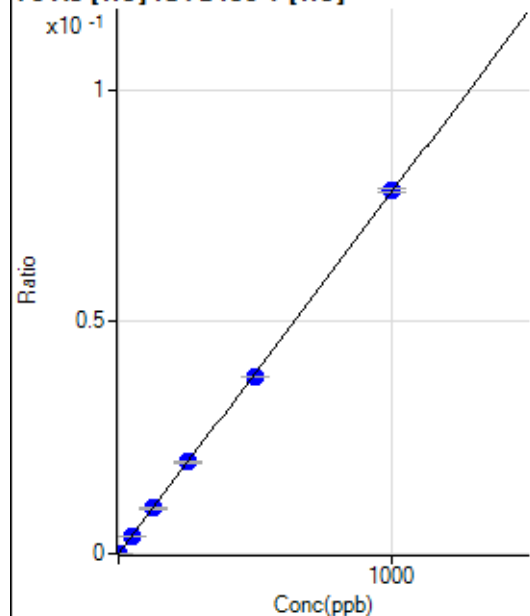
$$R = 0.9999$$

$$DL = 0.3119$$

$$BEC = 0.4816$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.00	0.0000	P	28.9
2	☒	0.100					
3	☐	1.000	1.050	106.34	0.0001	P	14.9
4	☐	50.000	49.820	4732.28	0.0039	P	0.5
5	☐	125.000	125.656	12127.09	0.0098	P	1.2
6	☐	250.000	254.899	24545.05	0.0199	P	1.8
7	☐	500.000	489.545	47889.17	0.0382	P	0.2
8	☐	1000.000	1003.930	98686.51	0.0783	P	1.0
9	☐			45.01	0.0000	P	24.8

$$y = 7.7955E-005 * x + 5.7298E-006$$

$$R = 0.9999$$

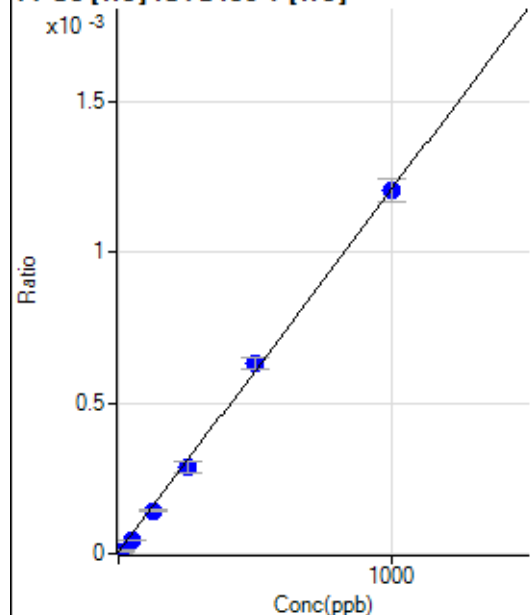
$$DL = 0.06367$$

$$BEC = 0.0735$$

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	6.67	0.0000	P	50.2
2	☐	0.500	-3.759	1.11	0.0000	P	173.
3	☐	5.000	3.066	11.11	0.0000	P	34.2
4	☐	50.000	33.452	55.55	0.0000	P	7.7
5	☐	125.000	114.261	176.67	0.0001	P	6.6
6	☐	250.000	234.536	354.45	0.0003	P	13.1
7	☐	500.000	519.769	791.14	0.0006	P	6.4
8	☐	1000.000	996.163	1516.77	0.0012	P	6.2
9	☐			6.67	0.0000	P	4.5

$$y = 1.2024\text{E-}006 * x + 5.4526\text{E-}006$$

$$R = 0.9995$$

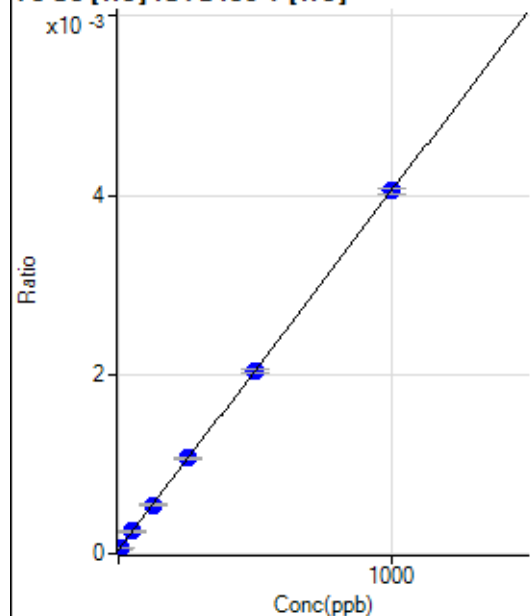
$$DL = 6.824$$

$$BEC = 4.535$$

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	52.34	0.0000	P	14.6
2	☐	0.500	-0.603	48.00	0.0000	P	25.6
3	☐	5.000	4.725	75.01	0.0001	P	23.8
4	☐	50.000	50.895	300.37	0.0002	P	5.1
5	☐	125.000	125.044	673.08	0.0005	P	2.9
6	☐	250.000	255.331	1316.53	0.0011	P	2.4
7	☐	500.000	498.021	2558.49	0.0020	P	1.3
8	☐	1000.000	999.608	5106.11	0.0040	P	1.3
9	☐			59.01	0.0000	P	7.5

$$y = 4.0083\text{E-}006 * x + 4.2838\text{E-}005$$

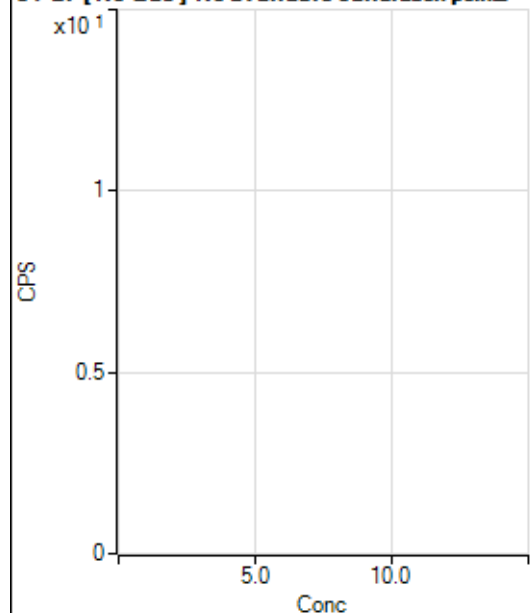
$$R = 1.0000$$

$$DL = 4.691$$

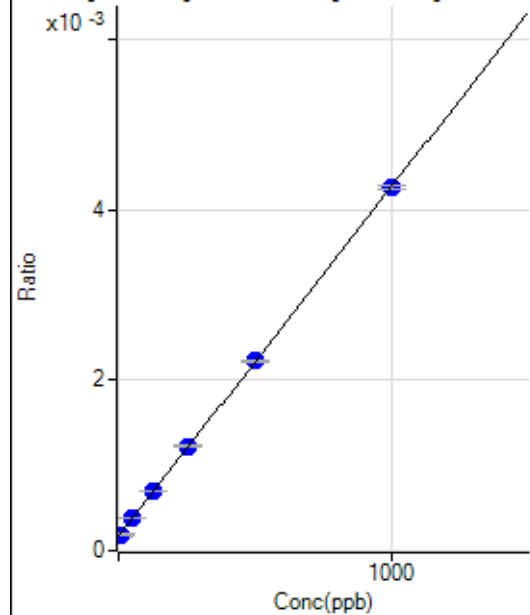
$$BEC = 10.69$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5049.43		P	3.2
2	☐			5156.28		P	11.8
3	☐			4799.11		P	4.8
4	☐			4632.22		P	5.4
5	☐			4815.83		P	6.2
6	☐			4725.68		P	4.1
7	☐			4992.72		P	7.4
8	☐			5179.65		P	8.8
9	☐			5413.31		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1669.73	0.0002	P	4.6
2	☒	0.500					
3	☐	5.000	5.118	1852.85	0.0002	P	4.3
4	☐	50.000	51.244	3767.02	0.0004	P	3.0
5	☐	125.000	130.797	6984.13	0.0007	P	1.1
6	☐	250.000	257.037	12330.07	0.0012	P	1.0
7	☐	500.000	501.412	22712.80	0.0022	P	0.4
8	☐	1000.000	996.747	44492.59	0.0043	P	1.1
9	☐			1749.12	0.0002	P	5.4

$$y = 4.1032E-006 * x + 1.6975E-004$$

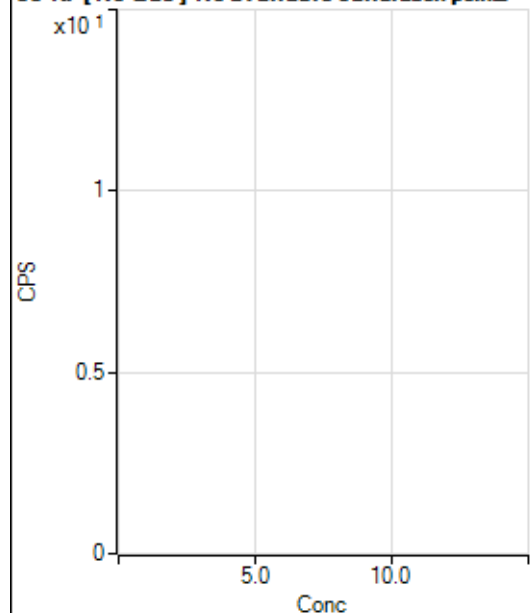
$$R = 1.0000$$

$$DL = 5.669$$

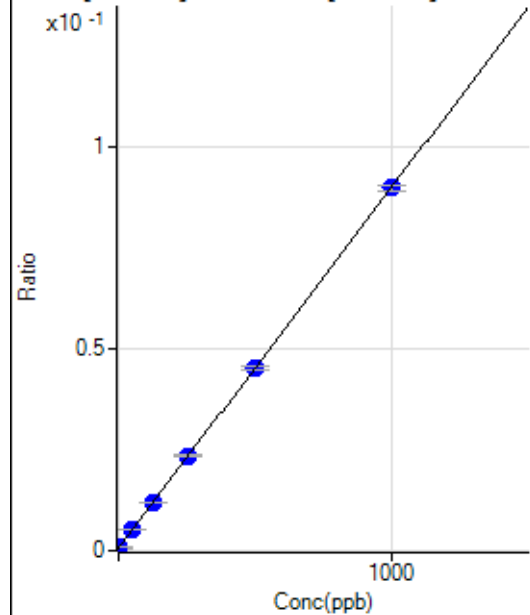
$$BEC = 41.37$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4251.80		P	2.7
2	☐			4284.04		P	1.4
3	☐			4438.52		P	1.0
4	☐			4358.50		P	4.0
5	☐			4236.24		P	2.6
6	☐			4246.25		P	0.6
7	☐			4461.87		P	2.1
8	☐			4284.03		P	2.2
9	☐			4248.46		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6801.85	0.0007	P	6.1
2	☐	0.100	0.199	6951.88	0.0007	P	0.3
3	☐	1.000	1.448	7974.72	0.0008	P	2.3
4	☐	50.000	50.566	51684.75	0.0052	P	0.8
5	☐	125.000	127.042	119186.80	0.0121	P	1.2
6	☐	250.000	254.829	236462.33	0.0235	P	2.8
7	☐	500.000	499.273	462425.59	0.0454	P	1.9
8	☐	1000.000	998.872	940519.25	0.0900	P	1.5
9	☐			11947.09	0.0012	P	1.3

$$y = 8.9451\text{E-}005 * x + 6.9160\text{E-}004$$

$$R = 1.0000$$

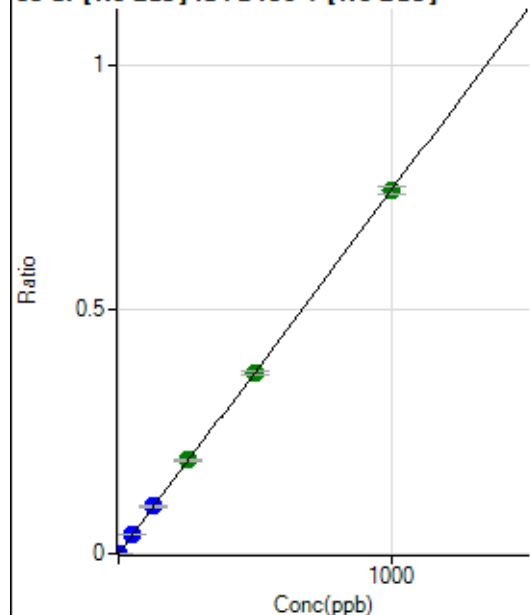
$$DL = 1.404$$

$$BEC = 7.732$$

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	38.89	0.0000	P	33.0
2	☐	0.100	0.117	891.72	0.0001	P	8.2
3	☐	1.000	1.077	7830.16	0.0008	P	5.0
4	☐	50.000	51.691	381772.56	0.0385	P	0.5
5	☐	125.000	129.719	955504.21	0.0967	P	1.3
6	☐	250.000	257.965	1935441.02	0.1922	A	1.5
7	☐	500.000	498.418	3786401.60	0.3714	A	2.0
8	☐	1000.000	998.125	7768097.14	0.7437	A	2.1
9	☐			43568.84	0.0043	P	1.1

$$y = 7.4508\text{E-}004 * x + 3.9564\text{E-}006$$

$$R = 1.0000$$

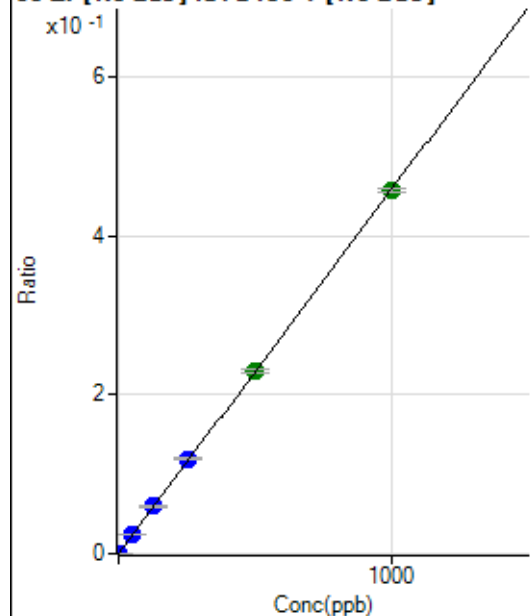
$$DL = 0.005264$$

$$BEC = 0.00531$$

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	250.01	0.0000	P	26.3
2	☐	0.100	0.118	777.82	0.0001	P	9.6
3	☐	1.000	1.063	4987.14	0.0005	P	1.8
4	☐	50.000	51.451	234293.10	0.0236	P	0.8
5	☐	125.000	129.911	589701.89	0.0596	P	1.3
6	☐	250.000	259.578	1199856.58	0.1192	P	1.8
7	☐	500.000	501.789	2348616.31	0.2303	A	1.3
8	☐	1000.000	996.025	4775144.77	0.4572	A	1.1
9	☐			1619.59	0.0002	P	8.0

$$y = 4.5896\text{E-}004 * x + 2.5413\text{E-}005$$

$$R = 0.9999$$

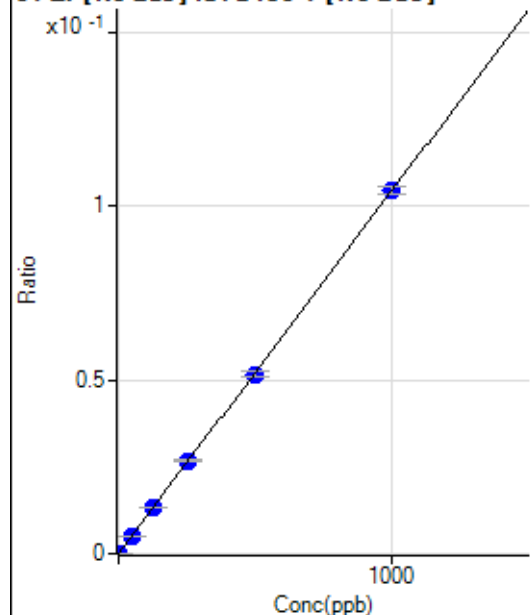
$$DL = 0.04376$$

$$BEC = 0.05537$$

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	58.33	0.0000	P	38.0
2	☐	0.100	0.085	144.45	0.0000	P	27.1
3	☐	1.000	1.049	1119.52	0.0001	P	10.2
4	☐	50.000	49.386	51083.03	0.0052	P	0.6
5	☐	125.000	126.268	130163.93	0.0132	P	2.2
6	☐	250.000	255.748	268509.23	0.0267	P	1.6
7	☐	500.000	495.402	526562.06	0.0516	P	2.5
8	☐	1000.000	1000.734	1089717.51	0.1043	P	2.2
9	☐			325.01	0.0000	P	18.4

$$y = 1.0424\text{E-}004 * x + 5.9335\text{E-}006$$

$$R = 1.0000$$

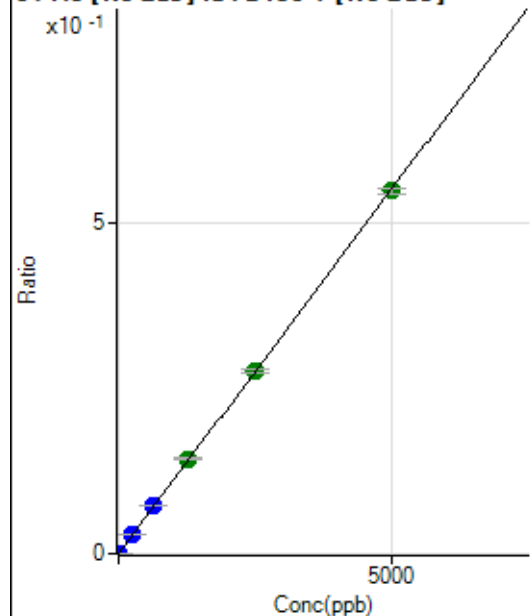
$$DL = 0.06489$$

$$BEC = 0.05692$$

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	108.34	0.0000	P	28.3
2	☐	0.500	0.501	650.04	0.0001	P	8.9
3	☐	5.000	5.198	5673.56	0.0006	P	1.9
4	☐	250.000	259.245	283382.25	0.0286	P	1.5
5	☐	625.000	652.964	711806.59	0.0720	P	1.7
6	☐	1250.000	1297.706	1440815.36	0.1431	A	2.6
7	☐	2500.000	2509.707	2821465.26	0.2767	A	2.2
8	☐	5000.000	4979.262	5734534.98	0.5490	A	1.5
9	☐			1730.71	0.0002	P	3.4

$$y = 1.1026\text{E-}004 * x + 1.1028\text{E-}005$$

$$R = 0.9999$$

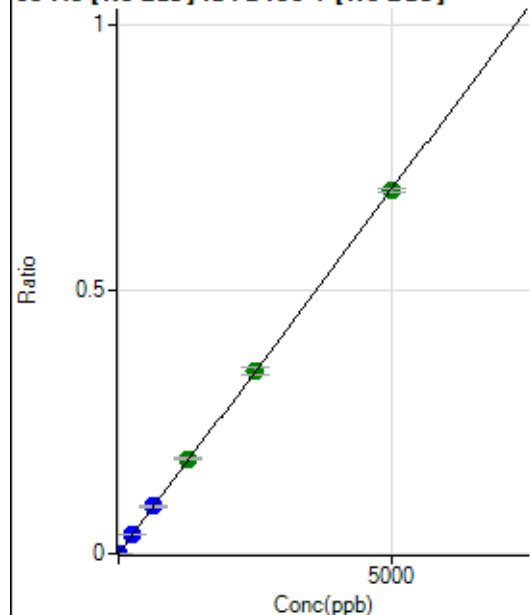
$$DL = 0.08491$$

$$BEC = 0.1$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	67.2
2	☐	0.500	0.512	716.71	0.0001	P	5.0
3	☐	5.000	4.979	6693.46	0.0007	P	2.0
4	☐	250.000	253.825	346986.41	0.0350	P	0.6
5	☐	625.000	650.101	886281.53	0.0897	P	2.3
6	☐	1250.000	1298.784	1803639.10	0.1791	A	2.0
7	☐	2500.000	2508.147	3525689.32	0.3459	A	4.5
8	☐	5000.000	4980.401	7174837.49	0.6869	A	1.1
9	☐			1936.29	0.0002	P	10.4

$$y = 1.3792\text{E-}004 * x + 2.5460\text{E-}006$$

$$R = 0.9999$$

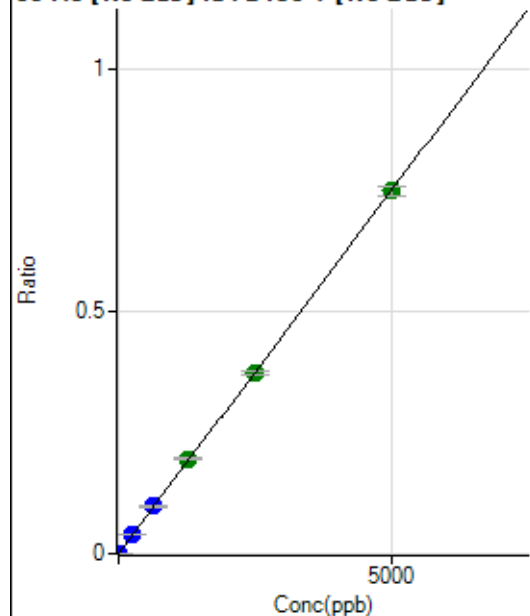
$$DL = 0.03719$$

$$BEC = 0.01846$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	33.8
2	☐	0.500	0.474	763.93	0.0001	P	5.3
3	☐	5.000	5.150	7577.27	0.0008	P	2.5
4	☐	250.000	255.149	379896.05	0.0383	P	0.9
5	☐	625.000	650.936	966415.22	0.0978	P	2.7
6	☐	1250.000	1299.969	1966004.80	0.1953	A	2.3
7	☐	2500.000	2481.302	3799614.28	0.3727	A	2.7
8	☐	5000.000	4993.357	7834100.96	0.7500	A	2.4
9	☐			3275.47	0.0003	P	5.5

$$y = 1.5020\text{E-}004 * x + 6.7880\text{E-}006$$

$$R = 0.9999$$

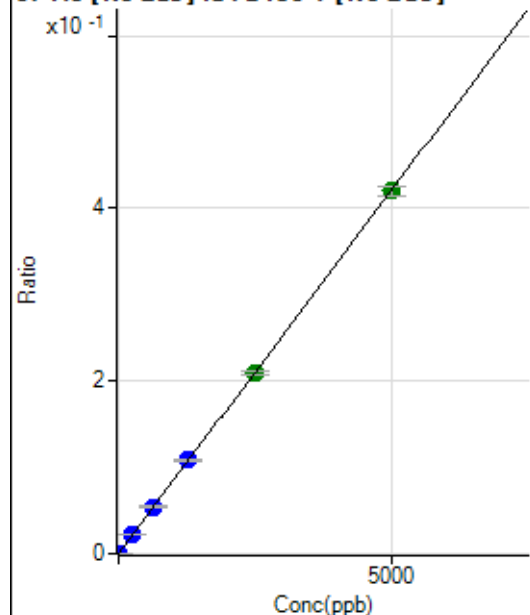
$$DL = 0.04576$$

$$BEC = 0.04519$$

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	19.45	0.0000	P	24.1
2	☐	0.500	0.468	405.57	0.0000	P	5.2
3	☐	5.000	5.062	4156.30	0.0004	P	9.9
4	☐	250.000	253.697	211667.20	0.0214	P	1.8
5	☐	625.000	641.339	533663.17	0.0540	P	2.3
6	☐	1250.000	1286.817	1090721.94	0.1083	P	2.2
7	☐	2500.000	2491.448	2138500.39	0.2097	A	2.7
8	☐	5000.000	4992.845	4390275.05	0.4203	A	3.0
9	☐			1147.30	0.0001	P	8.1

$$y = 8.4182\text{E-}005 * x + 1.9755\text{E-}006$$

$$R = 1.0000$$

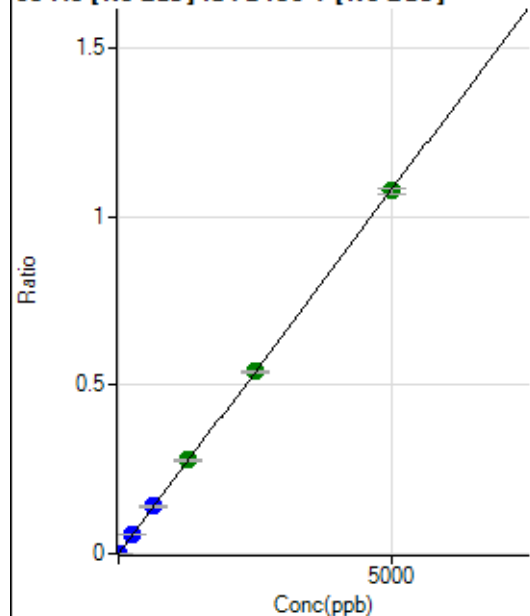
$$DL = 0.01698$$

$$BEC = 0.02347$$

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	25.00	0.0000	P	66.2
2	☐	0.500	0.503	1088.96	0.0001	P	9.4
3	☐	5.000	4.954	10404.18	0.0011	P	4.7
4	☐	250.000	257.670	551090.25	0.0556	P	1.1
5	☐	625.000	648.825	1383950.38	0.1400	P	2.2
6	☐	1250.000	1290.102	2803173.85	0.2784	A	2.0
7	☐	2500.000	2501.523	5504540.84	0.5398	A	1.4
8	☐	5000.000	4985.852	11238028.72	1.0759	A	1.4
9	☐			2972.63	0.0003	P	7.2

$$y = 2.1579\text{E-}004 * x + 2.5344\text{E-}006$$

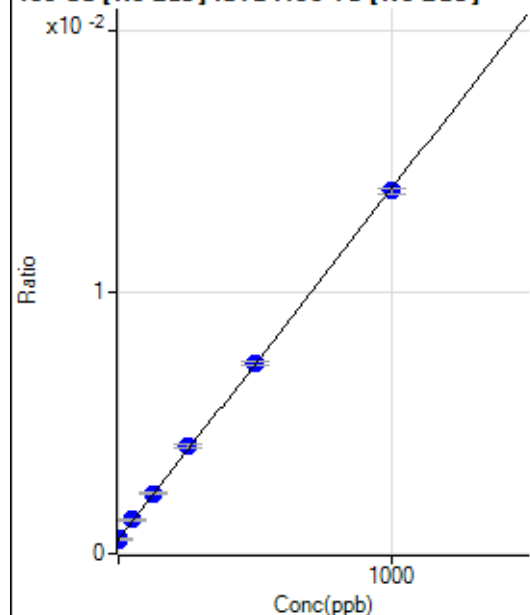
$$R = 1.0000$$

$$DL = 0.02333$$

$$BEC = 0.01174$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2366.94	0.0006	P	7.4
2	☐	0.100	1.708	2433.63	0.0006	P	5.3
3	☐	1.000	-0.480	2291.92	0.0005	P	6.6
4	☐	50.000	55.571	5534.57	0.0013	P	3.5
5	☐	125.000	130.146	9953.89	0.0023	P	4.6
6	☐	250.000	267.243	18245.87	0.0041	P	3.9
7	☐	500.000	502.504	32781.31	0.0073	P	1.8
8	☐	1000.000	993.517	64557.31	0.0139	P	1.5
9	☐			2305.81	0.0005	P	3.6

$$y = 1.3429\text{E-}005 * x + 5.5178\text{E-}004$$

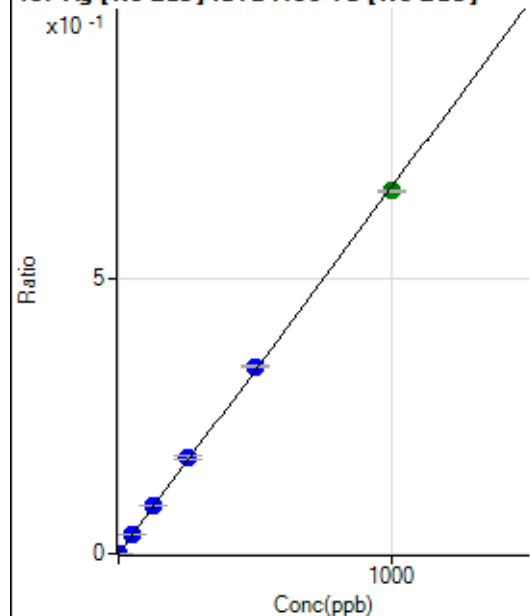
$$R = 0.9998$$

$$DL = 9.08$$

$$BEC = 41.09$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	114.
2	☐	0.100	0.070	219.45	0.0001	P	28.4
3	☐	1.000	0.997	2805.92	0.0007	P	6.1
4	☐	50.000	53.352	151105.02	0.0354	P	1.4
5	☐	125.000	132.854	382175.36	0.0883	P	1.3
6	☐	250.000	264.016	772972.21	0.1754	P	3.4
7	☐	500.000	511.129	1524754.19	0.3396	P	0.3
8	☐	1000.000	989.782	3055404.06	0.6575	A	0.8
9	☐			902.83	0.0002	P	13.7

$$y = 6.6432\text{E-}004 * x + 5.1776\text{E-}006$$

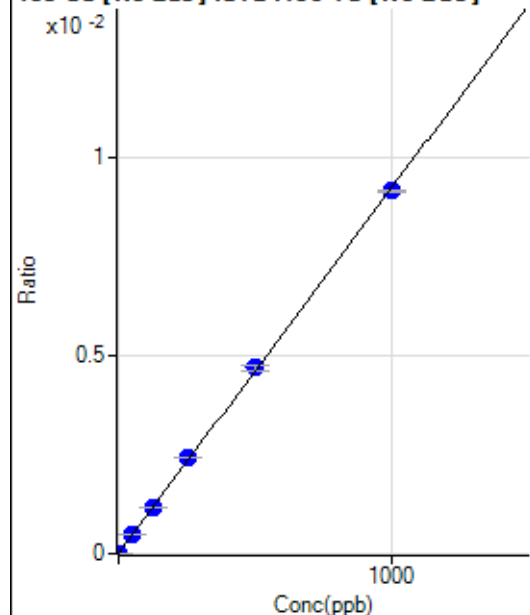
$$R = 0.9998$$

$$DL = 0.0268$$

$$BEC = 0.007794$$

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	23.61	0.0000	P	20.3
2	☐	0.100	0.009	23.61	0.0000	P	27.9
3	☐	1.000	0.766	52.78	0.0000	P	51.2
4	☐	50.000	51.396	2040.46	0.0005	P	1.8
5	☐	125.000	126.225	5055.17	0.0012	P	2.1
6	☐	250.000	262.802	10688.97	0.0024	P	1.7
7	☐	500.000	508.294	21035.63	0.0047	P	2.9
8	☐	1000.000	992.430	42477.77	0.0091	P	0.5
9	☐			38.89	0.0000	P	71.8

$$y = 9.2060\text{E-}006 * x + 5.5028\text{E-}006$$

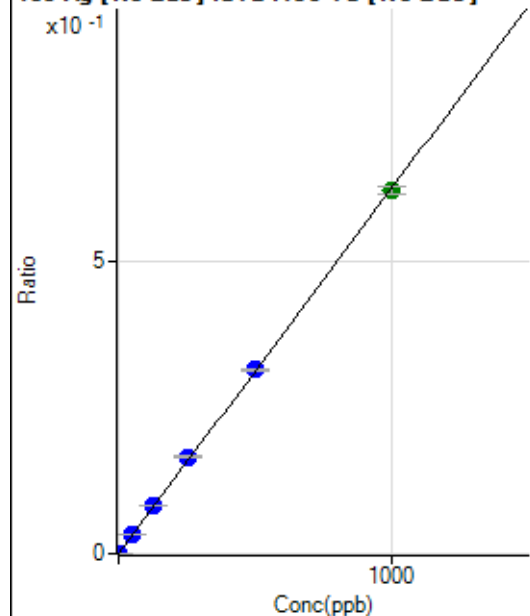
$$R = 0.9999$$

$$DL = 0.3632$$

$$BEC = 0.5977$$

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	2.78	0.0000	P	173.
2	☐	0.100	0.090	241.68	0.0001	P	12.8
3	☐	1.000	1.026	2697.56	0.0006	P	2.7
4	☐	50.000	53.522	142513.83	0.0334	P	1.5
5	☐	125.000	132.780	359127.79	0.0829	P	0.9
6	☐	250.000	264.675	728672.25	0.1653	P	2.8
7	☐	500.000	503.087	1411118.10	0.3142	P	0.8
8	☐	1000.000	993.639	2884044.16	0.6207	A	2.1
9	☐			730.60	0.0002	P	13.5

$$y = 6.2464\text{E-}004 * x + 6.4841\text{E-}007$$

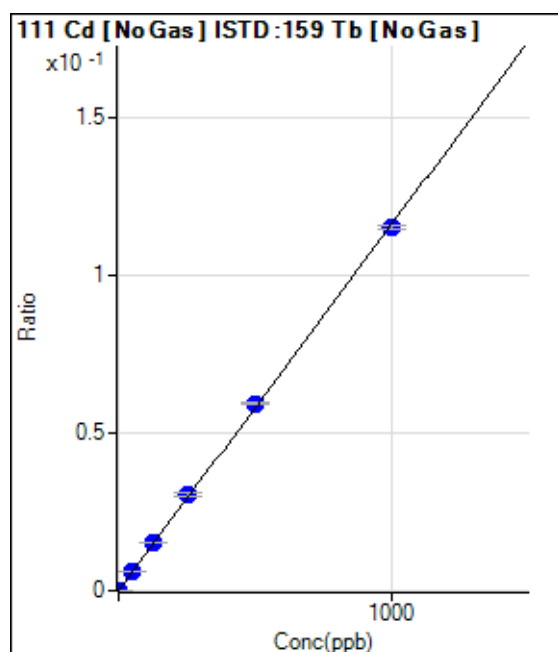
$$R = 0.9999$$

$$DL = 0.005394$$

$$BEC = 0.001038$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.54	0.0000	P	6.7
2	☐	0.100	0.116	167.65	0.0000	P	14.4
3	☐	1.000	1.203	697.11	0.0002	P	7.5
4	☐	50.000	52.505	26115.82	0.0061	P	2.0
5	☐	125.000	130.904	65968.67	0.0152	P	1.8
6	☐	250.000	263.302	134951.22	0.0306	P	3.1
7	☐	500.000	510.215	266328.95	0.0593	P	0.7
8	☐	1000.000	990.704	535020.74	0.1151	P	1.0
9	☐			335.30	0.0001	P	9.1

$$y = 1.1620\text{E-}004 * x + 2.6004\text{E-}005$$

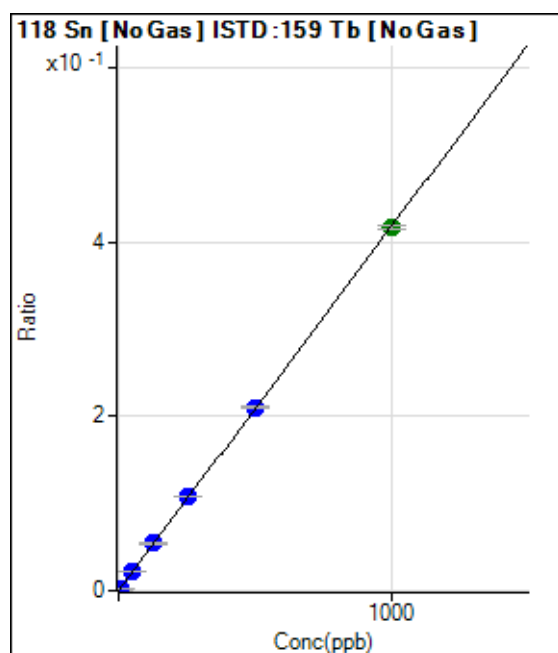
$$R = 0.9998$$

$$DL = 0.04525$$

$$BEC = 0.2238$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0000	P	31.9
2	☐	0.500	0.513	1052.85	0.0002	P	1.7
3	☐	5.000	5.059	9042.10	0.0022	P	1.3
4	☐	50.000	52.286	93426.64	0.0219	P	2.3
5	☐	125.000	130.113	235966.94	0.0545	P	1.4
6	☐	250.000	259.158	478344.52	0.1085	P	1.6
7	☐	500.000	502.389	944369.48	0.2103	P	0.9
8	☐	1000.000	995.762	1936660.46	0.4168	A	0.9
9	☐			855.60	0.0002	P	8.5

$$y = 4.1856\text{E-}004 * x + 3.3683\text{E-}005$$

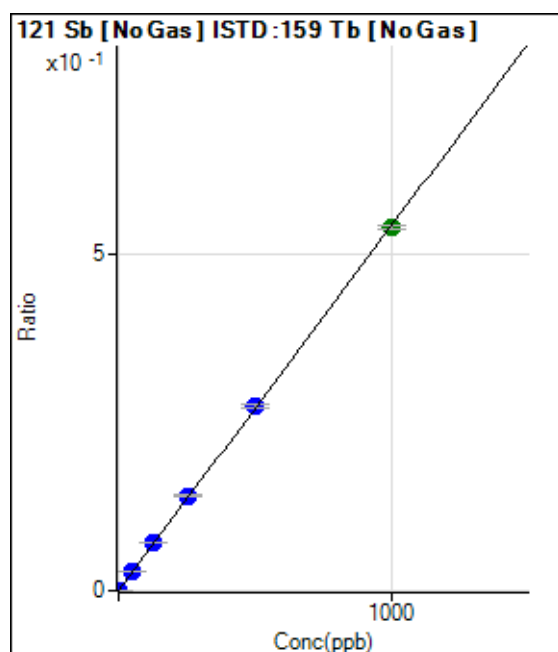
$$R = 0.9999$$

$$DL = 0.07697$$

$$BEC = 0.08047$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	32.9
2	☐	0.200	0.211	522.25	0.0001	P	15.1
3	☐	2.000	1.965	4520.31	0.0011	P	1.4
4	☐	50.000	51.518	119232.87	0.0280	P	1.4
5	☐	125.000	129.621	304666.86	0.0704	P	0.7
6	☐	250.000	260.522	623322.23	0.1414	P	2.0
7	☐	500.000	505.719	1232517.83	0.2745	P	1.3
8	☐	1000.000	993.856	2506733.00	0.5394	A	1.2
9	☐			1277.87	0.0003	P	10.9

$$y = 5.4276\text{E-}004 * x + 9.0688\text{E-}006$$

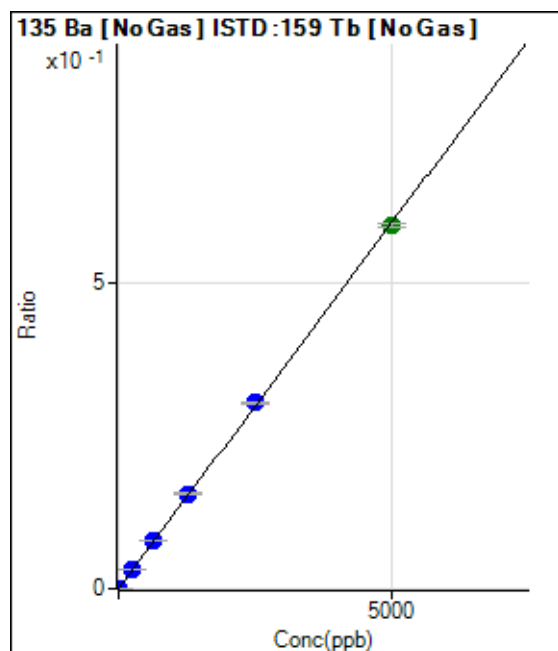
$$R = 0.9999$$

$$DL = 0.01648$$

$$BEC = 0.01671$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.
2	☐	1.000	1.135	583.36	0.0001	P	1.2
3	☐	10.000	10.423	5248.38	0.0012	P	3.8
4	☐	250.000	259.806	132459.50	0.0311	P	2.3
5	☐	625.000	651.603	337431.21	0.0779	P	0.6
6	☐	1250.000	1298.518	684410.89	0.1553	P	3.2
7	☐	2500.000	2543.793	1366003.40	0.3042	P	1.6
8	☐	5000.000	4962.158	2757688.54	0.5934	A	1.1
9	☐			886.17	0.0002	P	20.9

$$y = 1.1959\text{E-}004 * x + 1.9439\text{E-}006$$

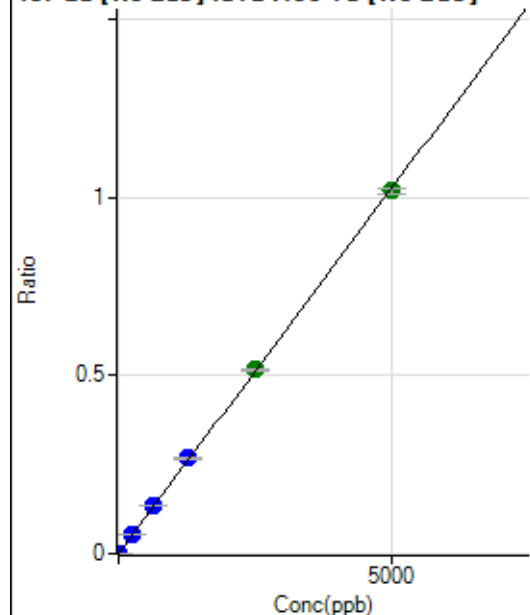
$$R = 0.9999$$

$$DL = 0.04883$$

$$BEC = 0.01625$$

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	19.44	0.0000	P	65.3
2	☐	1.000	0.951	844.50	0.0002	P	18.2
3	☐	10.000	10.744	9272.87	0.0022	P	3.3
4	☐	250.000	262.553	229312.19	0.0538	P	2.0
5	☐	625.000	659.741	585249.54	0.1352	P	2.2
6	☐	1250.000	1311.933	1184798.05	0.2688	P	2.2
7	☐	2500.000	2526.104	2323976.42	0.5176	A	1.0
8	☐	5000.000	4966.493	4727438.52	1.0176	A	1.6
9	☐			1597.36	0.0004	P	11.4

$$y = 2.0488E-004 * x + 4.5294E-006$$

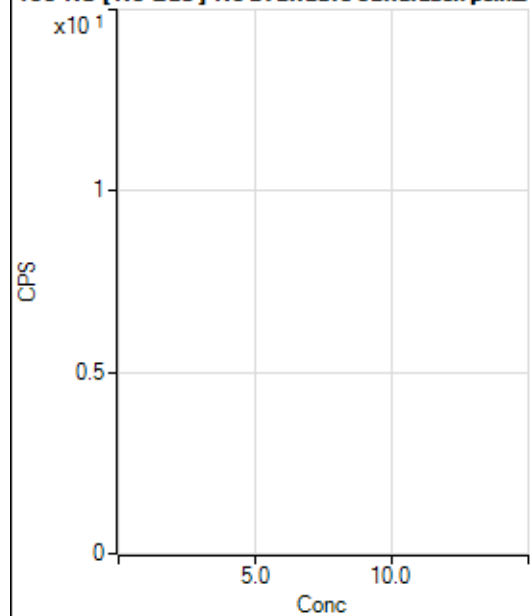
$$R = 0.9999$$

$$DL = 0.04333$$

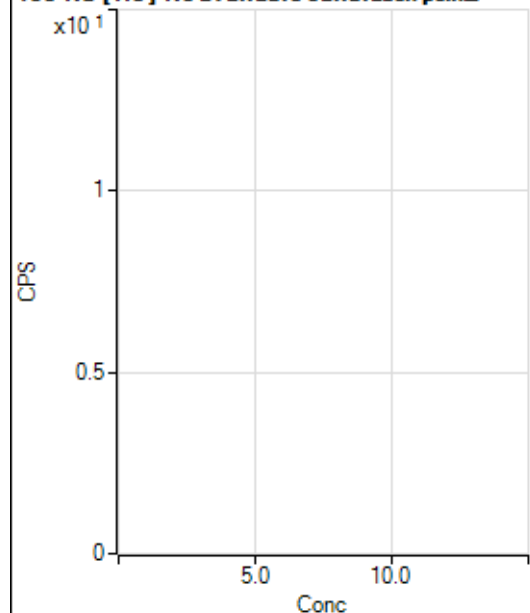
$$BEC = 0.02211$$

Weight: <None>

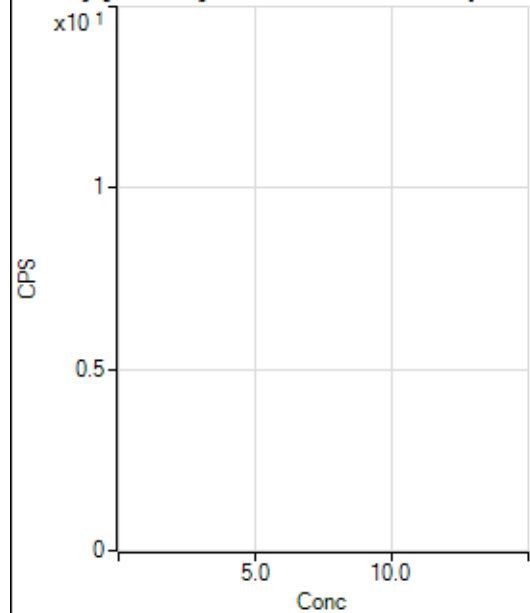
Min Conc: 0

150 Nd [No Gas] No available calibration points

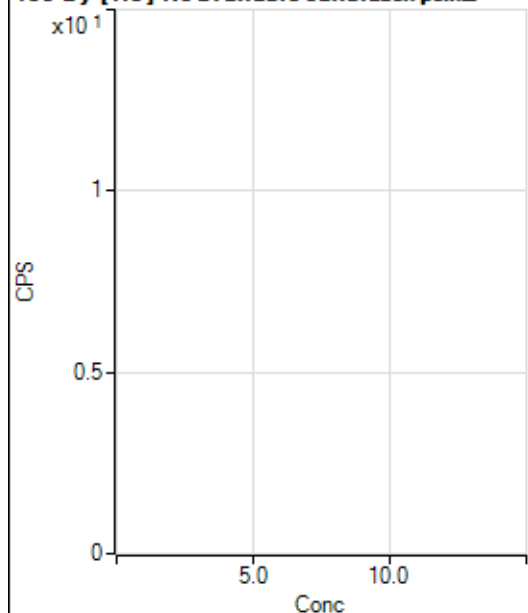
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	86.6
2	☐			20.00		P	0.0
3	☐			2.22		P	173.
4	☐			15.55		P	24.8
5	☐			26.67		P	25.0
6	☐			40.00		P	16.7
7	☐			95.56		P	22.4
8	☐			124.45		P	21.7
9	☐			24.45		P	83.3

150 Nd [He] No available calibration points

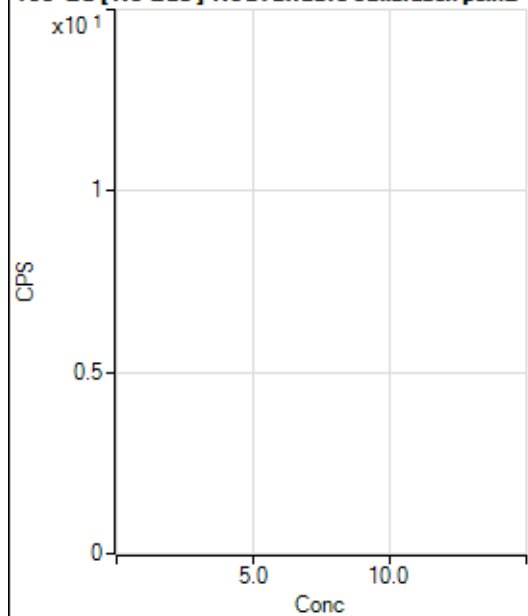
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			3.33		P	100.
5	☐			6.66		P	86.6
6	☐			2.22		P	173.
7	☐			15.55		P	24.8
8	☐			10.00		P	88.2
9	☐			12.22		P	68.7

156 Dy [No Gas] No available calibration points

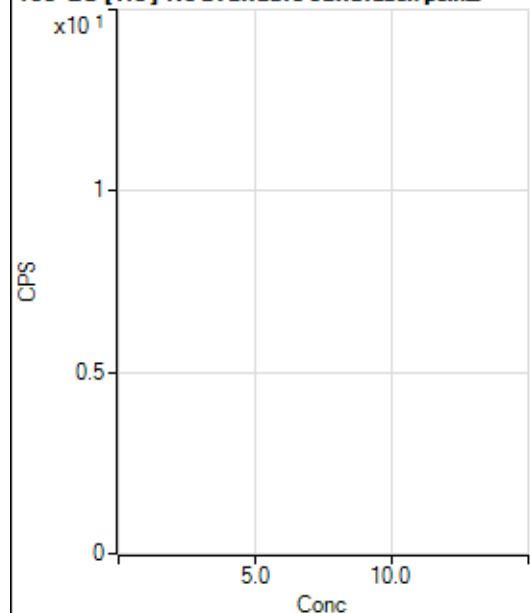
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.66		P	86.6
2	☐			8.33		P	100.
3	☐			11.11		P	114.
4	☐			19.44		P	65.5
5	☐			38.89		P	32.7
6	☐			66.67		P	25.0
7	☐			61.11		P	7.9
8	☐			130.56		P	16.1
9	☐			463.91		P	17.4

156 Dy [He] No available calibration points

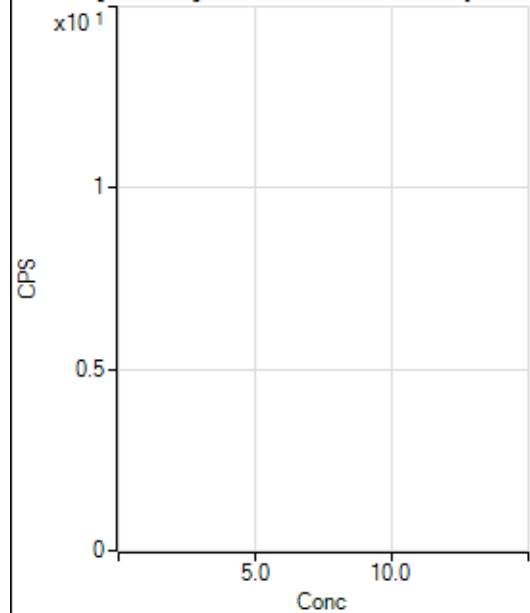
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			2.22		P	173.
3	☐			1.11		P	173.
4	☐			4.45		P	86.6
5	☐			11.11		P	17.3
6	☐			23.33		P	28.6
7	☐			34.44		P	29.6
8	☐			96.67		P	18.2
9	☐			312.23		P	12.7

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

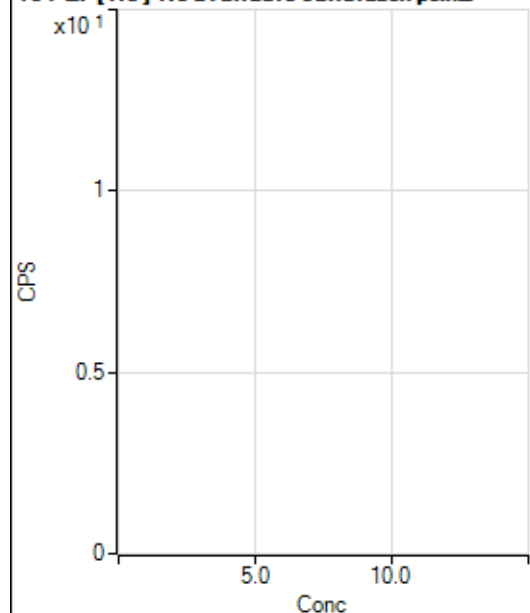
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	39.7
2	☐			58.34		P	14.3
3	☐			27.78		P	34.6
4	☐			36.11		P	70.5
5	☐			77.78		P	34.4
6	☐			69.45		P	25.0
7	☐			97.22		P	30.1
8	☐			163.89		P	12.8
9	☐			702.82		P	4.9

160 Gd [He] No available calibration points

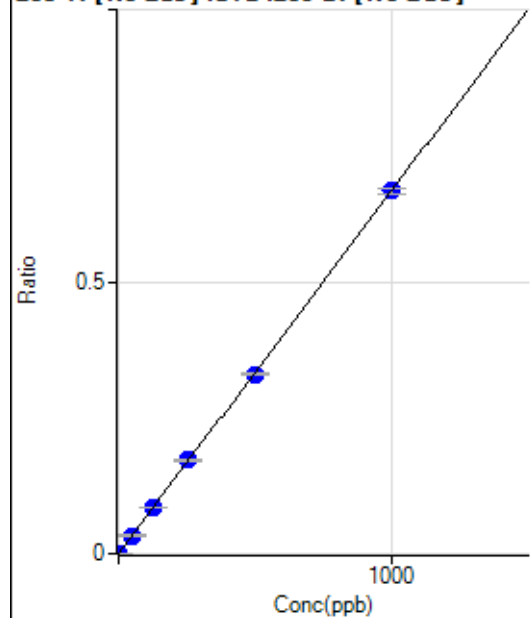
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	52.9
2	☐			13.33		P	50.0
3	☐			12.22		P	68.7
4	☐			21.11		P	24.1
5	☐			26.67		P	37.5
6	☐			23.33		P	14.3
7	☐			53.33		P	31.2
8	☐			83.33		P	21.2
9	☐			380.01		P	4.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	17.3
2	☐			22.22		P	57.3
3	☐			27.78		P	75.5
4	☐			16.67		P	50.0
5	☐			30.55		P	15.7
6	☐			55.56		P	56.8
7	☐			38.89		P	81.1
8	☐			52.78		P	18.2
9	☐			94.45		P	51.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.8
2	☐			14.44		P	35.3
3	☐			10.00		P	33.3
4	☐			10.00		P	33.3
5	☐			6.67		P	50.0
6	☐			10.00		P	66.7
7	☐			27.78		P	61.6
8	☐			16.67		P	40.0
9	☐			44.45		P	24.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.23	0.0000	P	59.2
2	☐	0.100	0.087	200.01	0.0001	P	38.4
3	☐	1.000	1.009	1552.92	0.0007	P	1.4
4	☐	50.000	50.029	74006.31	0.0334	P	1.5
5	☐	125.000	127.401	188525.18	0.0851	P	0.4
6	☐	250.000	258.044	388176.11	0.1723	P	1.1
7	☐	500.000	495.327	763830.42	0.3306	P	1.7
8	☐	1000.000	1000.024	1568276.83	0.6675	P	1.5
9	☐			155.56	0.0001	P	6.7

$$y = 6.6747\text{E-}004 * x + 3.2700\text{E-}005$$

$$R = 1.0000$$

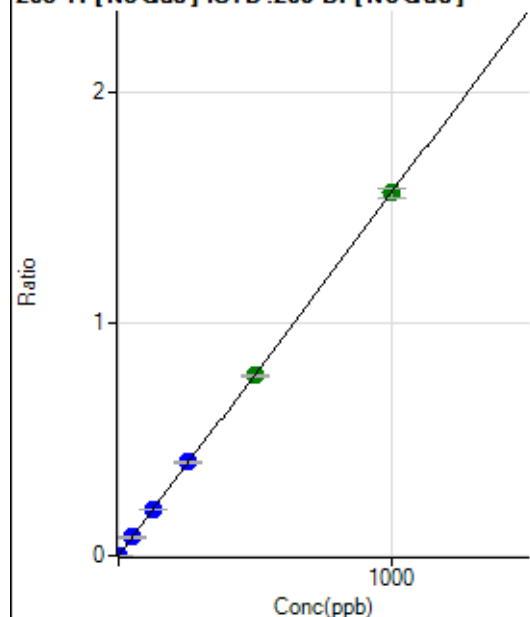
$$DL = 0.08707$$

$$BEC = 0.04899$$

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	147.23	0.0001	P	38.8
2	☐	0.100	0.101	497.25	0.0002	P	17.1
3	☐	1.000	0.957	3439.47	0.0016	P	5.3
4	☐	50.000	50.564	175378.73	0.0792	P	1.2
5	☐	125.000	127.264	441589.04	0.1993	P	0.8
6	☐	250.000	257.786	909302.56	0.4035	P	1.3
7	☐	500.000	496.274	1794723.33	0.7768	A	0.8
8	☐	1000.000	999.605	3676118.66	1.5646	A	2.3
9	☐			250.01	0.0001	P	17.7

$$y = 0.0016 * x + 6.6537E-005$$

$$R = 1.0000$$

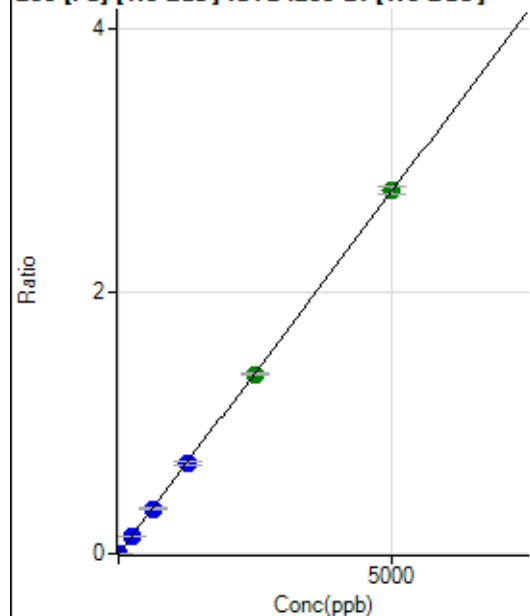
$$DL = 0.04943$$

$$BEC = 0.04251$$

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	92.59	0.0000	P	26.4
2	☐	0.100	0.082	192.60	0.0001	P	20.3
3	☐	1.000	0.965	1264.90	0.0006	P	1.3
4	☐	250.000	246.462	301258.74	0.1361	P	1.9
5	☐	625.000	622.023	760909.57	0.3434	P	0.7
6	☐	1250.000	1248.895	1553127.94	0.6893	P	2.8
7	☐	2500.000	2480.495	3163121.54	1.3691	A	1.1
8	☐	5000.000	5010.578	6497925.32	2.7656	A	2.1
9	☐			13038.20	0.0058	P	2.8

$$y = 5.5193E-004 * x + 4.2192E-005$$

$$R = 1.0000$$

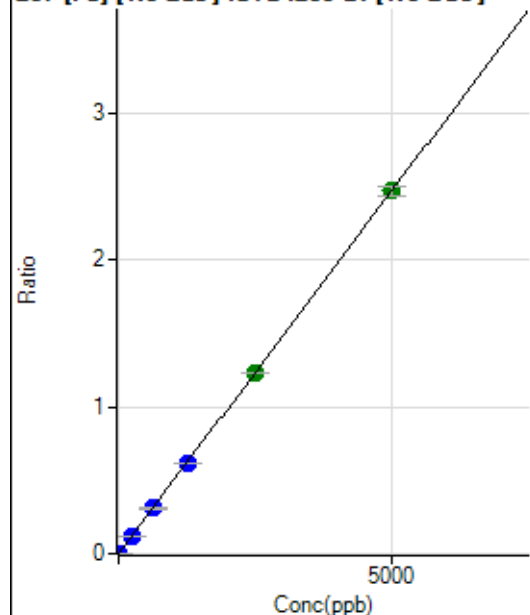
$$DL = 0.0606$$

$$BEC = 0.07644$$

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	66.67	0.0000	P	45.4
2	☐	0.100	0.086	161.11	0.0001	P	11.6
3	☐	1.000	1.020	1176.00	0.0005	P	7.3
4	☐	250.000	244.938	267997.16	0.1211	P	2.2
5	☐	625.000	627.094	686685.93	0.3099	P	1.4
6	☐	1250.000	1249.461	1391292.03	0.6174	P	0.6
7	☐	2500.000	2490.995	2843696.39	1.2308	A	0.5
8	☐	5000.000	5004.629	5810273.34	2.4728	A	3.0
9	☐			11605.39	0.0052	P	2.3

$$y = 4.9409\text{E-}004 * x + 3.0466\text{E-}005$$

$$R = 1.0000$$

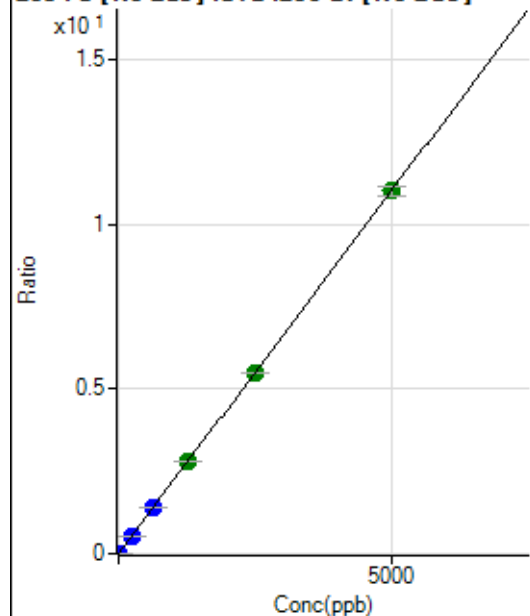
$$DL = 0.08402$$

$$BEC = 0.06166$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	320.38	0.0001	P	20.0
2	☐	0.100	0.092	770.39	0.0003	P	7.1
3	☐	1.000	1.012	5232.00	0.0024	P	3.5
4	☐	250.000	247.628	1209877.43	0.5464	P	1.4
5	☐	625.000	632.606	3093162.67	1.3958	P	0.5
6	☐	1250.000	1266.572	6296468.49	2.7944	A	1.2
7	☐	2500.000	2492.569	12705325.60	5.4991	A	0.7
8	☐	5000.000	4998.741	25911274.53	11.0280	A	2.3
9	☐			51646.20	0.0231	P	1.1

$$y = 0.0022 * x + 1.4574\text{E-}004$$

$$R = 1.0000$$

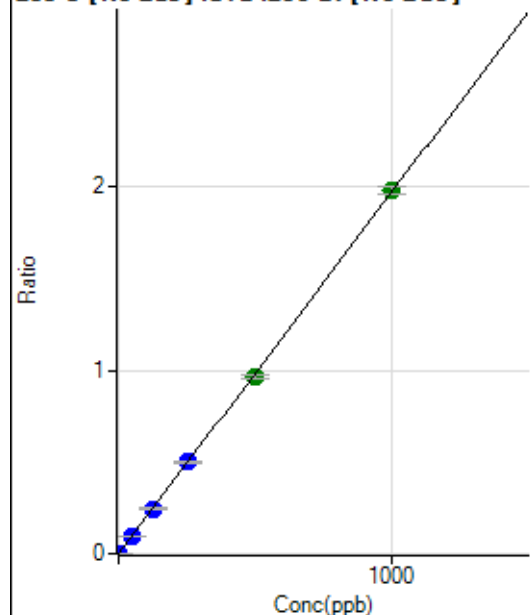
$$DL = 0.0397$$

$$BEC = 0.06606$$

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	5.55	0.0000	P	86.7
2	☐	0.100	0.099	436.13	0.0002	P	0.9
3	☐	1.000	0.939	4067.44	0.0018	P	7.4
4	☐	50.000	49.831	217149.19	0.0981	P	1.5
5	☐	125.000	124.917	544804.48	0.2458	P	1.5
6	☐	250.000	253.395	1123600.71	0.4987	P	2.6
7	☐	500.000	488.918	2223003.46	0.9622	A	1.5
8	☐	1000.000	1004.711	4645691.60	1.9773	A	2.1
9	☐			494.47	0.0002	P	8.8

$$y = 0.0020 * x + 2.5143E-006$$

$$R = 0.9999$$

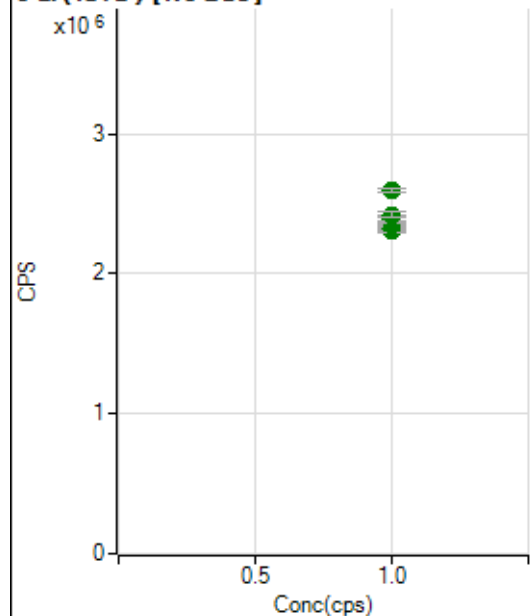
$$DL = 0.003321$$

$$BEC = 0.001278$$

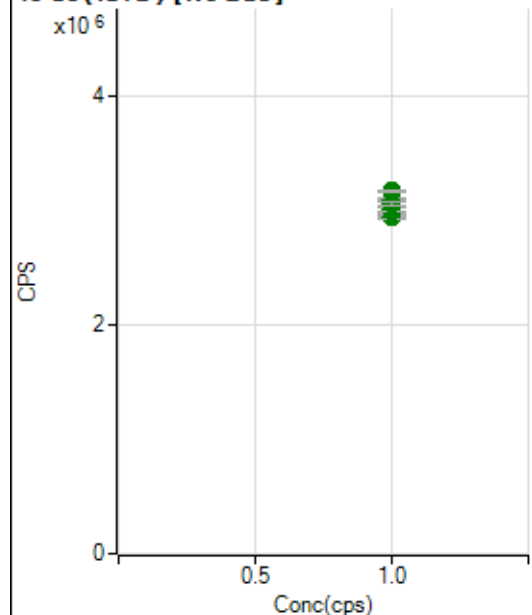
Weight: <None>

Min Conc: 0

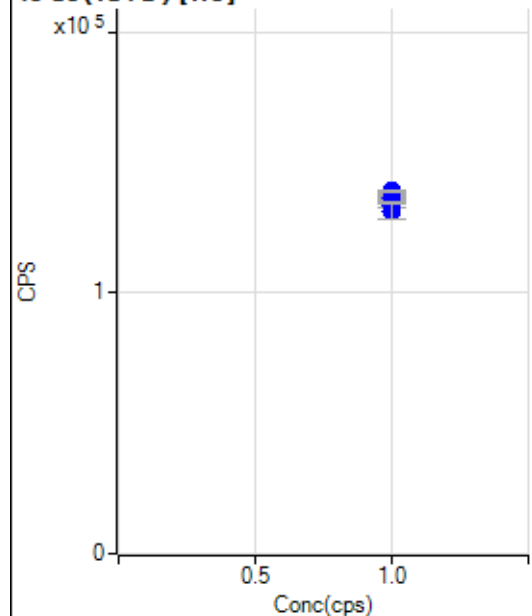
6 Li (ISTD) [No Gas]



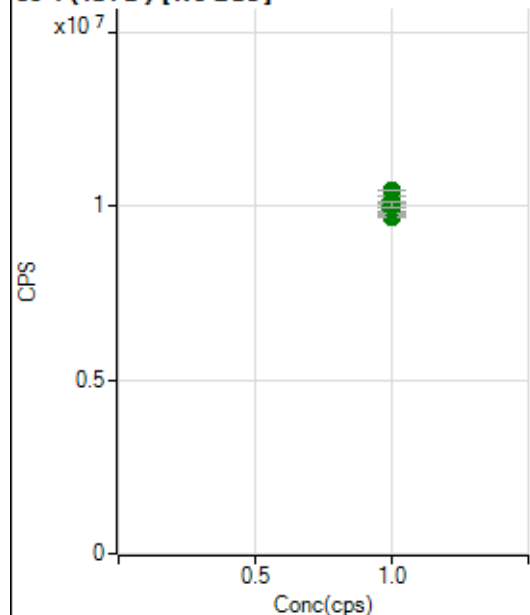
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2318891.48		A	1.4
2	☐	1.000		2312974.41		A	0.9
3	☐	1.000		2318965.55		A	2.5
4	☐	1.000		2349161.44		A	1.1
5	☐	1.000		2363070.31		A	1.0
6	☐	1.000		2386170.56		A	2.6
7	☐	1.000		2372568.68		A	0.5
8	☐	1.000		2422128.31		A	2.1
9	☐	1.000		2590597.67		A	1.2

45 Sc (ISTD) [No Gas]

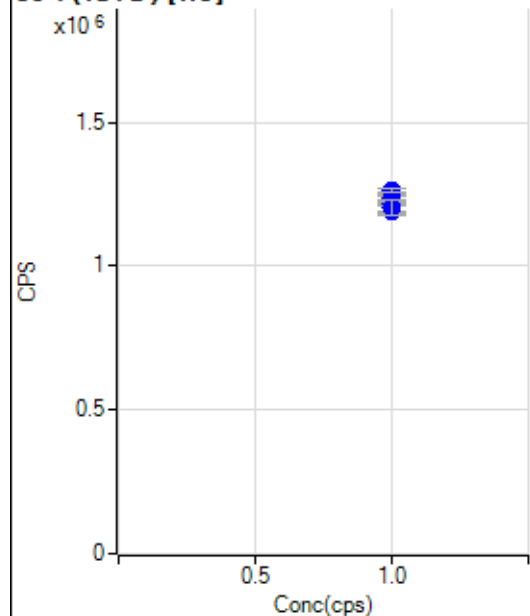
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2953764.85		A	0.9
2	☐	1.000		2960468.91		A	0.6
3	☐	1.000		2931062.62		A	1.0
4	☐	1.000		2988208.71		A	1.5
5	☐	1.000		3006261.66		A	1.3
6	☐	1.000		3041235.83		A	3.3
7	☐	1.000		3086010.61		A	0.6
8	☐	1.000		3164841.06		A	0.8
9	☐	1.000		3049904.82		A	1.1

45 Sc (ISTD) [He]

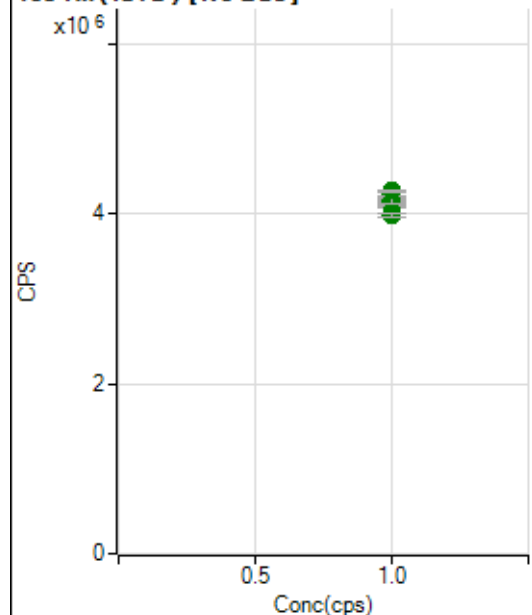
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		136738.36		P	1.6
2	☐	1.000		133474.28		P	1.0
3	☐	1.000		136471.51		P	1.2
4	☐	1.000		136861.73		P	1.0
5	☐	1.000		137385.49		P	0.6
6	☐	1.000		136095.76		P	1.5
7	☐	1.000		139106.06		P	0.3
8	☐	1.000		138730.94		P	0.5
9	☐	1.000		131385.52		P	4.3

89 Y (ISTD) [No Gas]

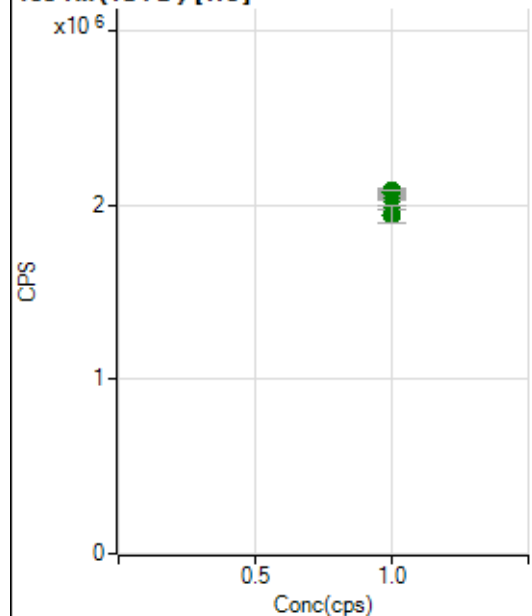
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9835419.09		A	0.7
2	☐	1.000		9800311.45		A	0.9
3	☐	1.000		9711877.08		A	0.6
4	☐	1.000		9911520.06		A	1.1
5	☐	1.000		9887281.59		A	1.9
6	☐	1.000		10071183.32		A	1.7
7	☐	1.000		10198873.81		A	2.2
8	☐	1.000		10445223.18		A	0.1
9	☐	1.000		10044678.67		A	1.4

89 Y (ISTD) [He]

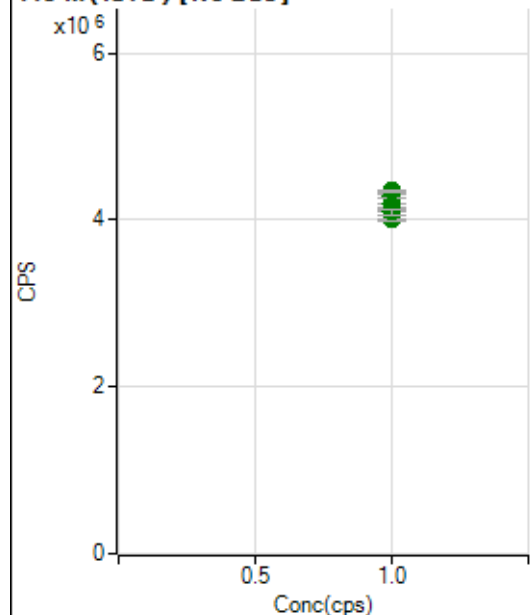
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1222098.35		P	0.9
2	☐	1.000		1187521.66		P	0.3
3	☐	1.000		1213971.55		P	0.6
4	☐	1.000		1216722.25		P	0.8
5	☐	1.000		1237372.55		P	1.0
6	☐	1.000		1235150.34		P	2.3
7	☐	1.000		1254688.00		P	0.5
8	☐	1.000		1260989.18		P	1.2
9	☐	1.000		1201209.64		P	4.5

103 Rh (ISTD) [No Gas]

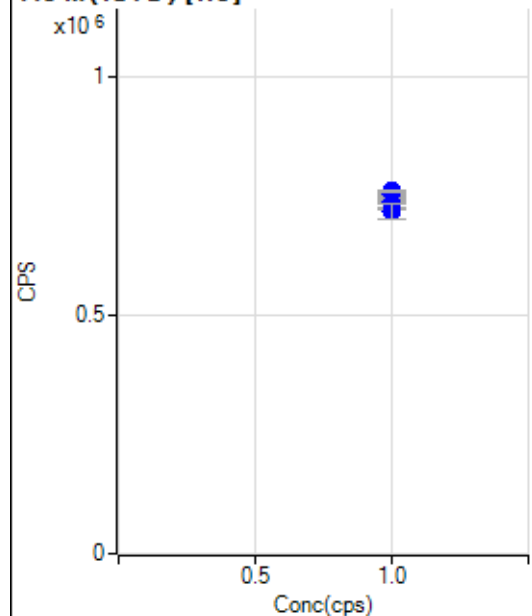
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4100211.03		A	1.4
2	☐	1.000		4113783.56		A	1.1
3	☐	1.000		4084745.71		A	1.0
4	☐	1.000		4147345.53		A	1.6
5	☐	1.000		4117984.60		A	1.7
6	☐	1.000		4220551.75		A	2.6
7	☐	1.000		4169077.65		A	2.1
8	☐	1.000		4265077.87		A	0.8
9	☐	1.000		3989484.20		A	1.1

103 Rh (ISTD) [He]

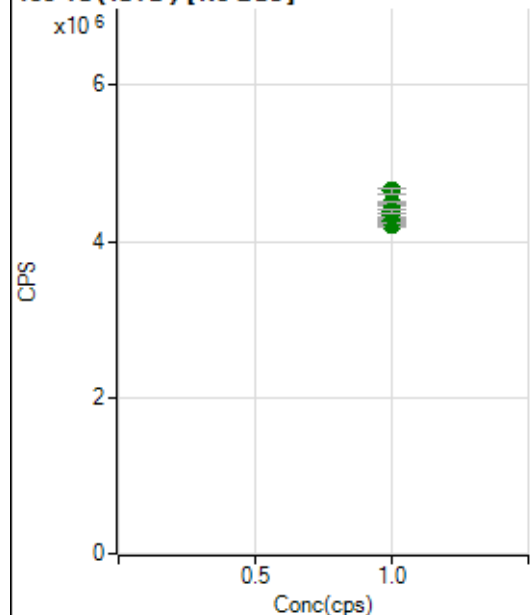
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2050565.40		A	1.8
2	☐	1.000		1974628.32		A	0.1
3	☐	1.000		2045122.52		A	0.6
4	☐	1.000		2053534.71		A	2.0
5	☐	1.000		2065854.38		A	0.4
6	☐	1.000		2078628.18		A	2.0
7	☐	1.000		2071058.03		A	1.6
8	☐	1.000		2080962.80		A	0.1
9	☐	1.000		1944464.38		A	4.8

115 In (ISTD) [No Gas]

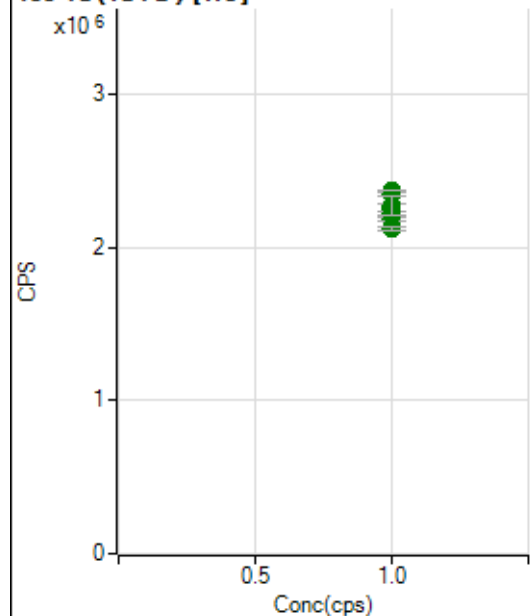
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4135106.95		A	0.9
2	☐	1.000		4140443.15		A	1.0
3	☐	1.000		4004794.91		A	0.8
4	☐	1.000		4129585.34		A	1.0
5	☐	1.000		4158550.94		A	1.5
6	☐	1.000		4200621.19		A	3.0
7	☐	1.000		4290208.71		A	1.2
8	☐	1.000		4349541.16		A	0.8
9	☐	1.000		4095652.71		A	1.9

115 In (ISTD) [He]

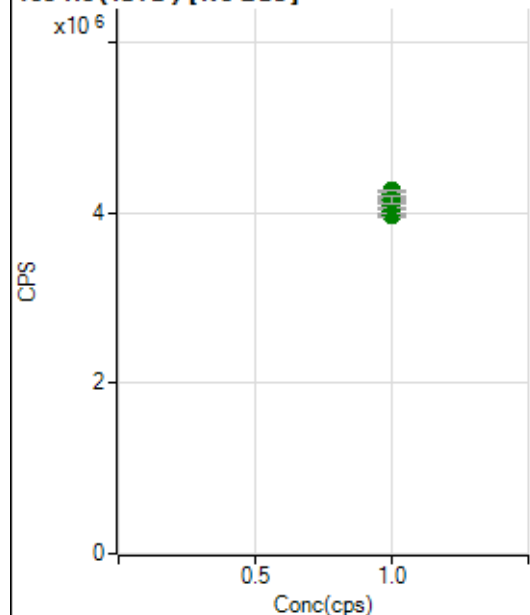
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		741876.13		P	1.3
2	☐	1.000		723491.83		P	0.7
3	☐	1.000		737658.20		P	0.8
4	☐	1.000		747531.13		P	0.4
5	☐	1.000		751920.91		P	0.1
6	☐	1.000		752906.84		P	1.6
7	☐	1.000		760391.51		P	0.6
8	☐	1.000		759263.45		P	0.5
9	☐	1.000		718080.27		P	4.5

159 Tb (ISTD) [No Gas]

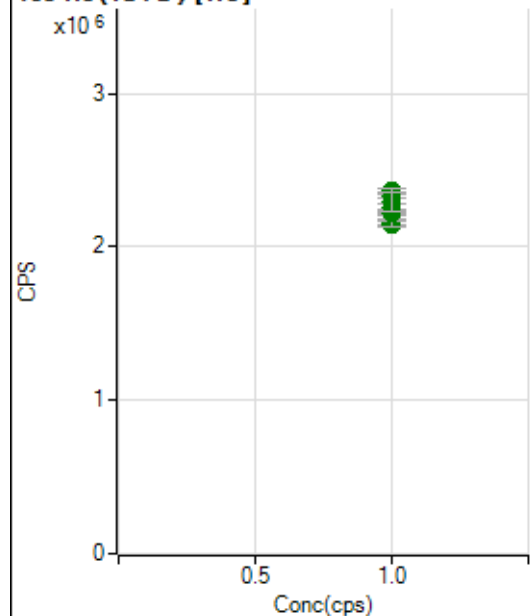
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4289798.96		A	0.2
2	☐	1.000		4236672.12		A	1.7
3	☐	1.000		4203413.30		A	0.5
4	☐	1.000		4263078.75		A	1.1
5	☐	1.000		4330217.15		A	1.2
6	☐	1.000		4409148.51		A	2.1
7	☐	1.000		4490458.13		A	0.8
8	☐	1.000		4646772.15		A	1.9
9	☐	1.000		4383841.81		A	1.2

159 Tb (ISTD) [He]

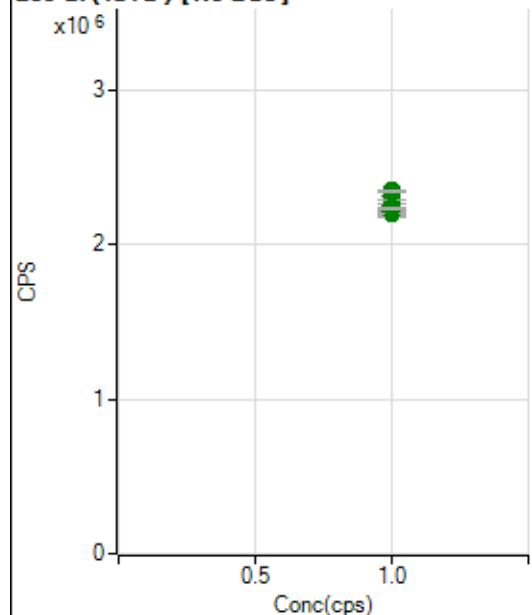
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2188031.22		A	0.8
2	☐	1.000		2124311.39		A	1.3
3	☐	1.000		2209415.02		A	0.4
4	☐	1.000		2221802.78		A	1.2
5	☐	1.000		2263588.26		A	1.9
6	☐	1.000		2246340.63		A	3.3
7	☐	1.000		2350395.99		A	0.8
8	☐	1.000		2370867.29		A	0.2
9	☐	1.000		2271656.17		A	5.6

165 Ho (ISTD) [No Gas]

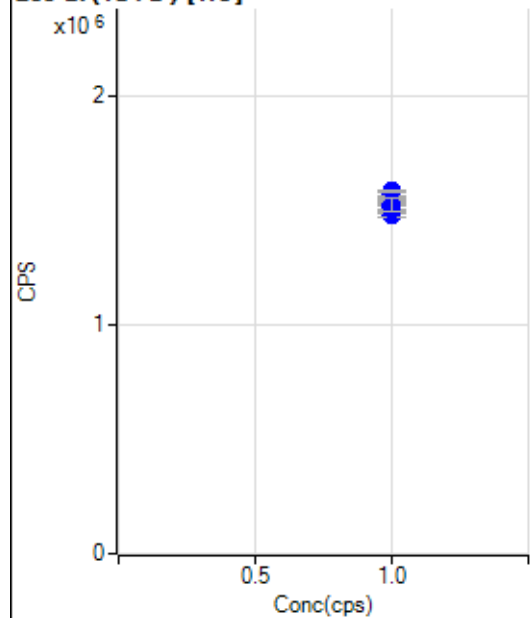
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4001000.52		A	1.3
2	☐	1.000		3972350.87		A	1.2
3	☐	1.000		3969968.01		A	0.9
4	☐	1.000		4019310.03		A	0.9
5	☐	1.000		4080738.07		A	1.2
6	☐	1.000		4143133.82		A	0.9
7	☐	1.000		4212194.32		A	2.4
8	☐	1.000		4255453.61		A	0.3
9	☐	1.000		4143636.16		A	2.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2161537.92		A	1.5
2	☐	1.000		2148209.97		A	1.7
3	☐	1.000		2213566.88		A	0.8
4	☐	1.000		2217962.07		A	0.9
5	☐	1.000		2234916.51		A	0.4
6	☐	1.000		2255638.58		A	1.8
7	☐	1.000		2334167.17		A	1.1
8	☐	1.000		2364242.99		A	1.2
9	☐	1.000		2292722.69		A	5.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2201738.25		A	2.0
2	☐	1.000		2205531.98		A	1.2
3	☐	1.000		2199872.09		A	1.3
4	☐	1.000		2214391.51		A	1.6
5	☐	1.000		2216152.26		A	0.7
6	☐	1.000		2253485.35		A	1.1
7	☐	1.000		2310606.75		A	2.2
8	☐	1.000		2349402.72		A	0.7
9	☐	1.000		2236372.15		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1513343.31		P	0.9
2	☐	1.000		1476004.28		P	1.0
3	☐	1.000		1500421.33		P	0.6
4	☐	1.000		1527342.65		P	0.7
5	☐	1.000		1536097.18		P	0.4
6	☐	1.000		1531711.37		P	1.8
7	☐	1.000		1572245.79		P	1.1
8	☐	1.000		1584746.52		P	0.6
9	☐	1.000		1524226.59		P	4.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8031721MS.b
Acq. Date-Time 2021-03-17 12:34:52
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		5331	53313.92			1.824	5.000
24		65808	658075.24			1.542	5.000
25		8717	87168.50			1.685	5.000
26		9855	98546.10			2.011	5.000
59		10114	101135.08			1.977	5.000
113		3811	38107.98			2.175	5.000
115		12737	127373.86			2.004	5.000
206		4043	40431.59			3.259	5.000
207		3387	33865.85			3.243	5.000
208		8346	83463.68			2.548	5.000
220		1	10.90			31.515	

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

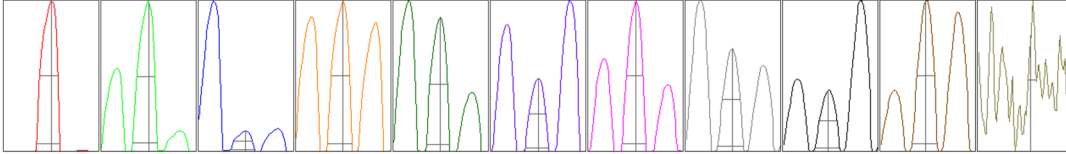
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5421	5188	5279	5366	5403
24	66145	64587	64944	66329	67032
25	8826	8519	8606	8853	8781
26	9917	9605	9687	10043	10021
59	10154	9823	10010	10281	10300
113	3832	3712	3736	3882	3892
115	12985	12426	12521	12789	12967
206	4093	3842	3999	4088	4193
207	3391	3269	3287	3463	3522
208	8394	8029	8247	8524	8538

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	9868.47	9.05	8.90 - 9.10	
24	119732.47	24.05	23.90 - 24.10	
25	15932.19	25.00	24.90 - 25.10	
26	17907.49	26.00	25.90 - 26.10	
59	19364.85	59.00	58.90 - 59.10	
113	7590.02	113.05	112.90 - 113.10	
115	25471.62	115.05	114.90 - 115.10	
206	7544.20	206.00	205.90 - 206.10	
207	6333.40	206.95	206.90 - 207.10	
208	15725.07	207.95	207.90 - 208.10	
220	1.55	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.735	0.900	
24	0.56	0.780	0.900	
25	0.58	0.764	0.900	
26	0.58	0.782	0.900	
59	0.55	0.733	0.900	
113	0.52	0.730	0.900	
115	0.51	0.759	0.900	
206	0.56	0.815	0.900	
207	0.55	0.781	0.900	
208	0.55	0.785	0.900	
220	0.24			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.9 V	Deflect	14.4 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.0 mm
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EM

Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2332	23320.19			2.533	
89		12757	127565.72			2.112	
205		4000	40003.81			2.053	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2348	2345	2229	2373	2366
89	12835	12816	12289	12985	12857
205	4035	4033	3855	4055	4024

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.9 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	1.3 mm	Torch V	-1.0 mm		
EM					
Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V