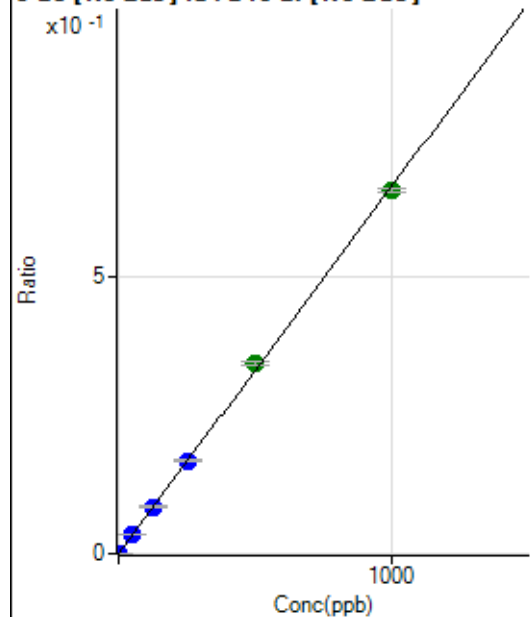


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8101721MS.b\
 Analysis File: P8101721MS.batch.bin
 DA Date-Time: 2021-10-17 17:49:55
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-10-17 10:24:42
2	005CALS.d	S02	2021-10-17 10:30:51
3	006CALS.d	S03	2021-10-17 10:33:57
4	007CALS.d	S04	2021-10-17 10:37:00
5	008CALS.d	S05	2021-10-17 10:40:06
6	009CALS.d	S06	2021-10-17 10:43:09
7	010CALS.d	S07	2021-10-17 10:46:14
8	011CALS.d	S08	2021-10-17 10:49:18

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	37.99	0.0000	P	36.1
2	☐	1.000	1.007	2898.39	0.0007	P	3.6
3	☐	50.000	53.598	153280.93	0.0355	P	1.5
4	☐	125.000	127.988	379131.11	0.0849	P	2.7
5	☐	250.000	252.924	756534.54	0.1677	P	2.2
6	☐	500.000	520.189	1472927.56	0.3449	A	1.7
7	☐	1000.000	988.621	2834664.95	0.6554	A	0.9
8	☐			373.27	0.0001	P	61.6

$$y = 6.6293\text{E-}004 * x + 9.1202\text{E-}006$$

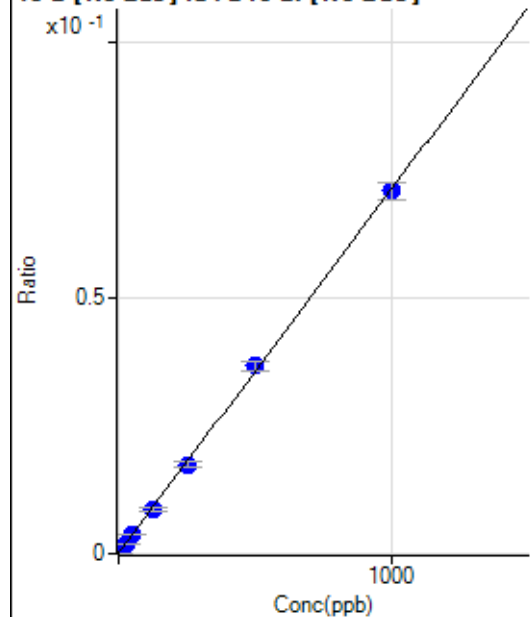
$$R = 0.9997$$

$$DL = 0.01488$$

$$BEC = 0.01376$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	439.92	0.0001	P	9.5
2	☐	25.000	23.720	7687.84	0.0018	P	4.2
3	☐	50.000	51.122	16154.37	0.0037	P	5.2
4	☐	125.000	119.894	38570.38	0.0086	P	8.8
5	☐	250.000	243.377	78585.68	0.0174	P	7.4
6	☐	500.000	514.330	156789.51	0.0367	P	5.6
7	☐	1000.000	995.105	306679.62	0.0709	P	4.8
8	☐			33799.67	0.0087	P	18.5

$$y = 7.1186\text{E-}005 * x + 1.0579\text{E-}004$$

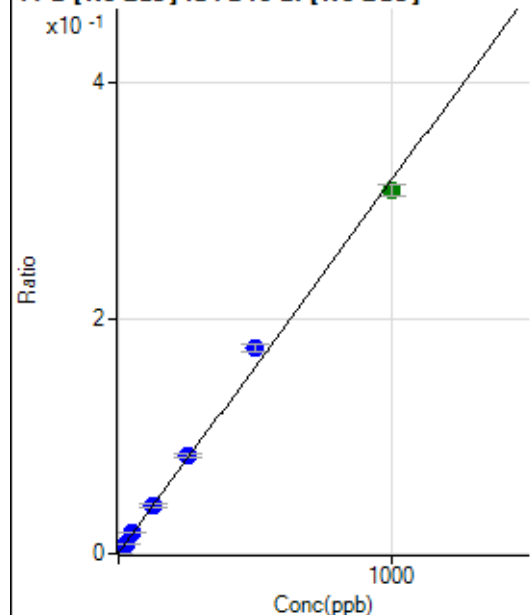
$$R = 0.9998$$

$$DL = 0.4236$$

$$BEC = 1.486$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2208.41	0.0005	P	1.7
2	☐	25.000	25.741	37223.81	0.0087	P	4.7
3	☐	50.000	54.525	76822.16	0.0178	P	4.9
4	☐	125.000	126.159	180846.51	0.0405	P	7.6
5	☐	250.000	260.774	375126.49	0.0832	P	4.5
6	☐	500.000	550.285	746972.73	0.1749	P	4.3
7	☐	1000.000	971.774	1333793.12	0.3085	A	3.0
8	☐			158508.99	0.0407	P	18.4

$$y = 3.1688\text{E-}004 * x + 5.3151\text{E-}004$$

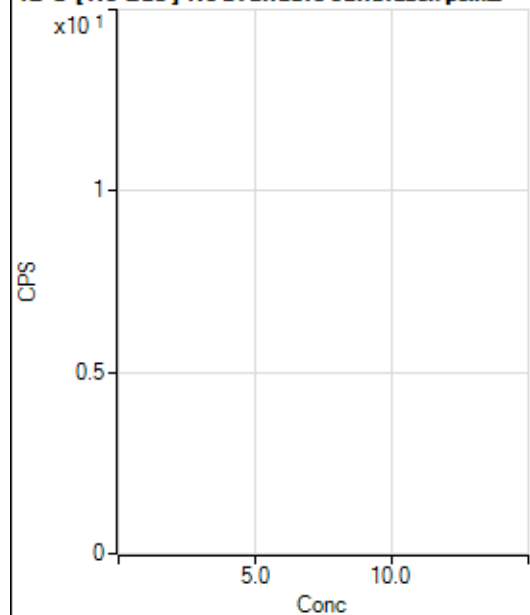
$$R = 0.9980$$

$$DL = 0.08642$$

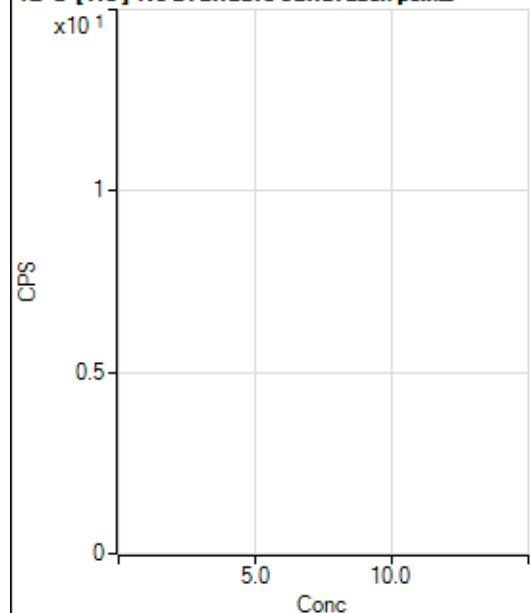
$$BEC = 1.677$$

Weight: <None>

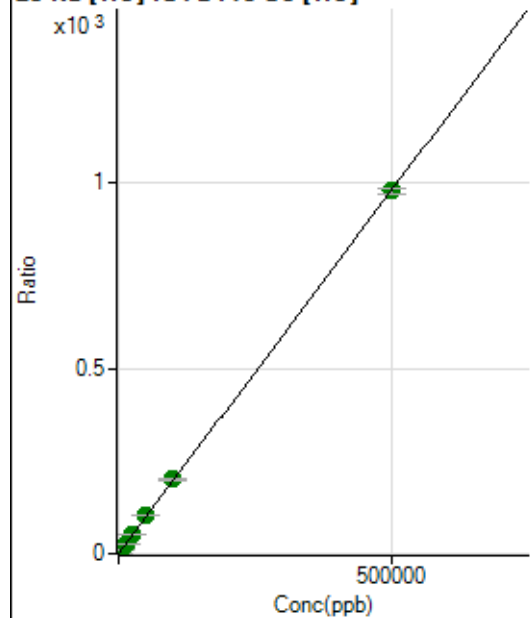
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6031874.01		A	0.5
2	☐			6275213.68		A	0.7
3	☐			8589098.63		A	1.1
4	☐			6835478.36		A	1.2
5	☐			6815408.31		A	1.9
6	☐			7101745.91		A	3.2
7	☐			8079654.26		A	1.1
8	☐			6740084.96		A	2.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			60558.74		P	1.2
2	☐			61437.72		P	2.1
3	☐			87499.85		P	1.3
4	☐			70012.09		P	1.3
5	☐			72543.28		P	1.6
6	☐			75128.56		P	1.2
7	☐			84387.14		P	0.5
8	☐			78526.60		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23597.36	0.0959	P	3.5
2	☐	500.000	507.088	278265.03	1.0909	P	1.5
3	☐	5000.000	5221.579	2665192.48	10.3417	A	1.4
4	☐	12500.000	12968.322	6494802.40	25.5424	A	0.1
5	☐	25000.000	25587.805	12453614.08	50.3045	A	2.7
6	☐	50000.000	52064.386	24424132.66	102.2570	A	1.9
7	☐	100000.00	101884.96	47823647.25	200.0154	A	4.6
8	☐	500000.00	499373.24	247596394.4	979.9699	A	1.6

$$y = 0.0020 * x + 0.0959$$

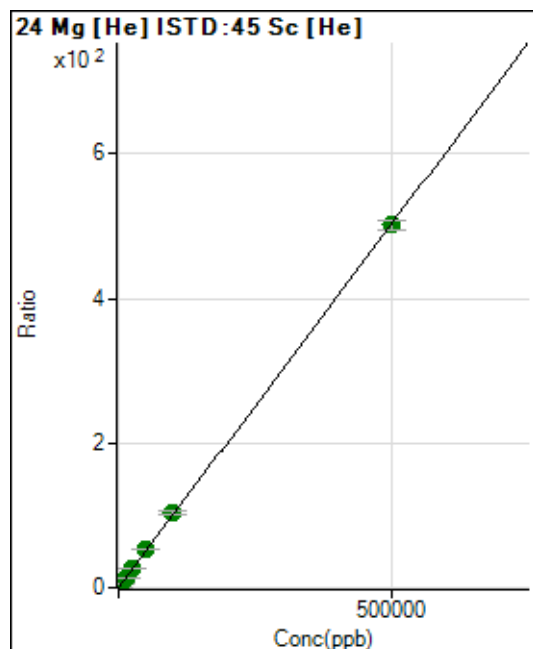
$$R = 1.0000$$

$$DL = 5.15$$

$$BEC = 48.87$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	322.23	0.0013	P	12.2
2	☐	500.000	509.636	131092.94	0.5140	P	1.9
3	☐	5000.000	5344.883	1385838.15	5.3780	A	2.8
4	☐	12500.000	13211.153	3379373.95	13.2910	A	1.0
5	☐	25000.000	26200.207	6525016.94	26.3573	A	2.7
6	☐	50000.000	52587.918	12635534.83	52.9018	A	2.3
7	☐	100000.00	103198.25	24831572.08	103.8130	A	2.8
8	☐	500000.00	499020.31	126824943.1	501.9879	A	2.6

$$y = 0.0010 * x + 0.0013$$

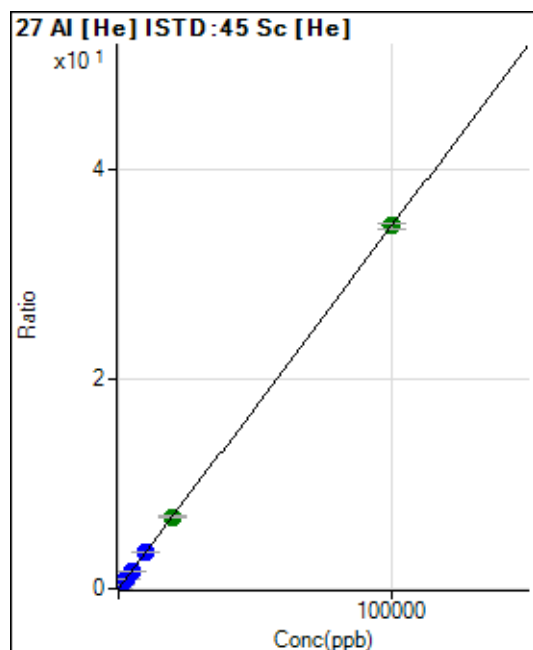
$$R = 1.0000$$

$$DL = 0.4767$$

$$BEC = 1.299$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	130.40	0.0005	P	16.8
2	☐	20.000	21.323	2017.81	0.0079	P	4.5
3	☐	1000.000	985.952	88117.10	0.3419	P	1.6
4	☐	2500.000	2452.397	216059.31	0.8497	P	0.2
5	☐	5000.000	4900.845	420261.35	1.6975	P	1.2
6	☐	10000.000	9883.921	817640.17	3.4229	P	0.6
7	☐	20000.000	19732.616	1634267.99	6.8332	A	3.4
8	☐	100000.00	100071.37	8754927.53	34.6513	A	1.8

$$y = 3.4626E-004 * x + 5.2981E-004$$

$$R = 1.0000$$

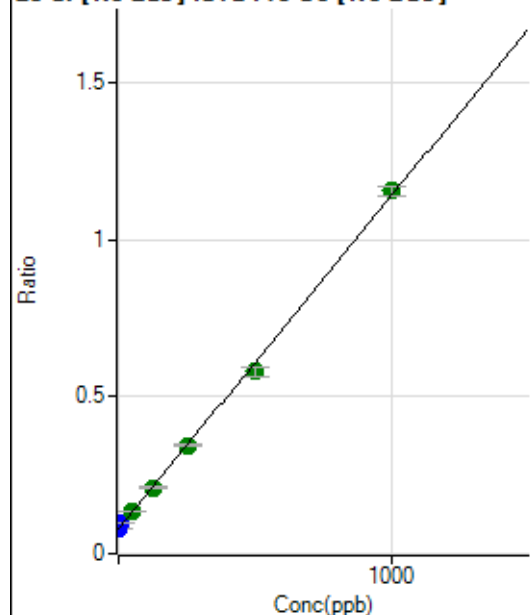
$$DL = 0.7703$$

$$BEC = 1.53$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	638754.61	0.0789	P	4.0
2	☐	10.000	18.962	799492.90	0.0990	P	3.6
3	☐	50.000	53.295	1113831.79	0.1354	A	1.7
4	☐	125.000	124.501	1783577.36	0.2109	A	3.1
5	☐	250.000	251.107	2840000.37	0.3452	A	2.7
6	☐	500.000	470.898	4639655.27	0.5783	A	4.4
7	☐	1000.000	1014.082	9548353.43	1.1543	A	2.4
8	☐			1072951.11	0.1400	A	8.4

$$y = 0.0011 * x + 0.0789$$

R = 0.9993

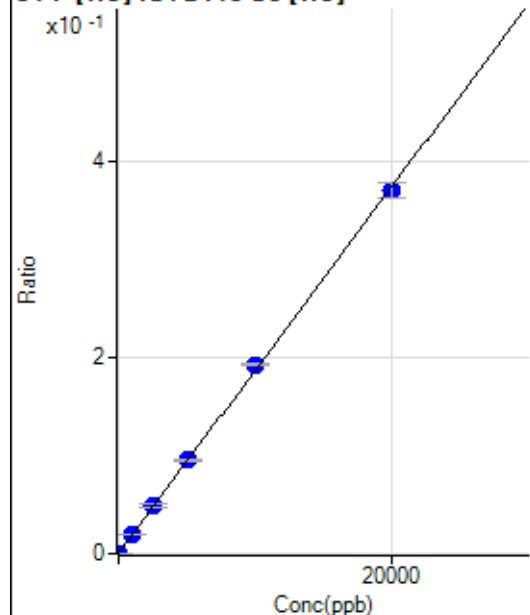
DL = 8.995

BEC = 74.4

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	3.843	113.90	0.0005	P	50.2
2	☐	0.000	-3.843	80.56	0.0003	P	6.4
3	☐	1000.000	1053.890	5173.30	0.0201	P	4.3
4	☐	2500.000	2603.949	12466.78	0.0490	P	5.3
5	☐	5000.000	5096.358	23672.73	0.0956	P	1.2
6	☐	10000.000	10323.310	46166.13	0.1933	P	1.5
7	☐	20000.000	19798.567	88528.74	0.3703	P	4.3
8	☐			130.56	0.0005	P	26.2

$$y = 1.8684E-005 * x + 3.8767E-004$$

R = 0.9998

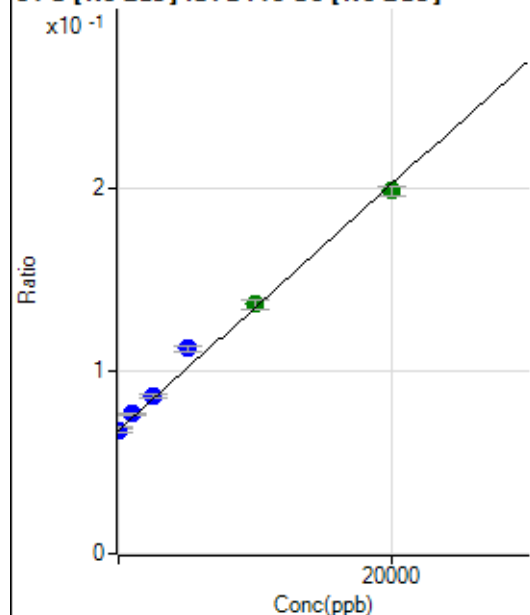
DL = 20.15

BEC = 20.75

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-40.846	545378.97	0.0673	P	3.2
2	☐	0.000	40.846	548185.81	0.0679	P	4.5
3	☐	1000.000	1293.227	627953.91	0.0763	P	1.2
4	☐	2500.000	2776.755	730258.11	0.0863	P	1.9
5	☐	5000.000	6606.940	922546.62	0.1122	P	2.8
6	☐	10000.000	10229.025	1096128.00	0.1366	A	3.4
7	☐	20000.000	19434.497	1643154.98	0.1987	A	2.7
8	☐			454509.79	0.0594	P	10.3

$$y = 6.7425E-006 * x + 0.0676$$

$$R = 0.9962$$

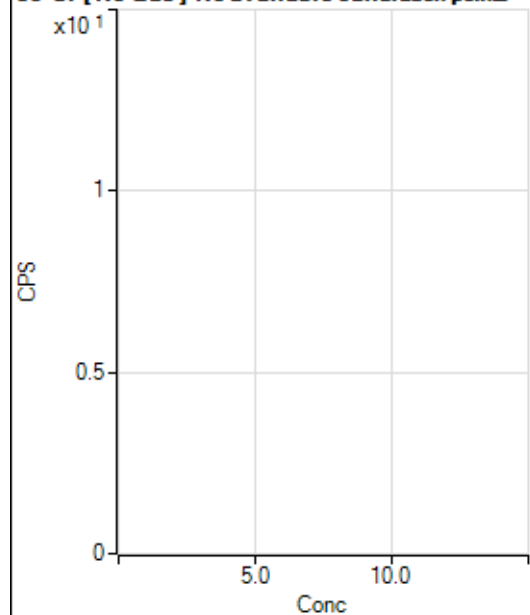
$$DL = 1155$$

$$BEC = 1.003E+04$$

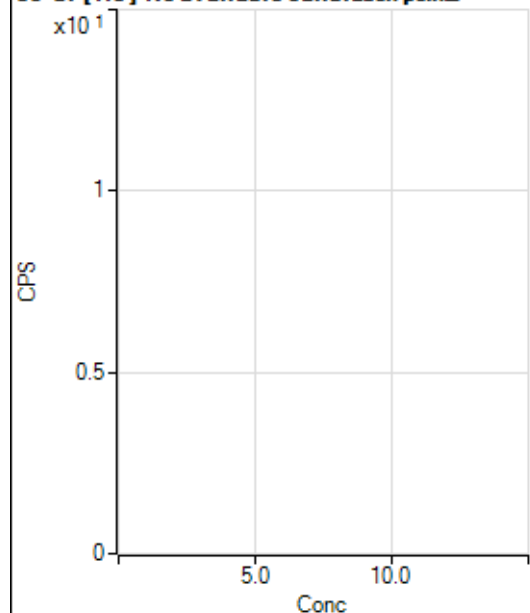
Weight: <None>

Min Conc: 0

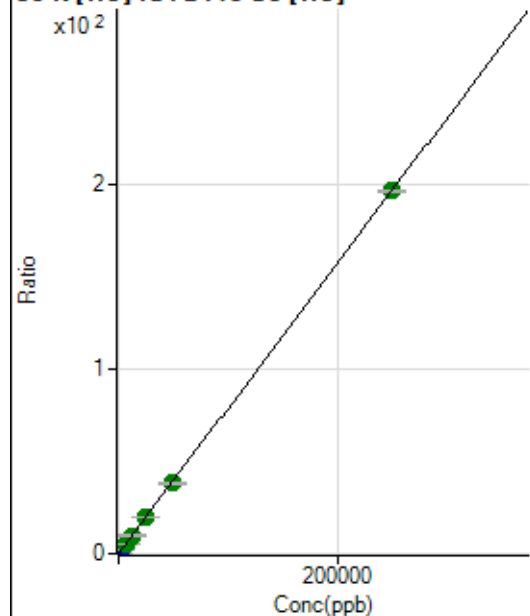
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1139525.23		M	1.8
2	☐			983236.35		P	2.6
3	☐			1124877.17		M	1.7
4	☐			1121623.31		M	1.3
5	☐			1052141.18		P	1.4
6	☐			1010925.66		P	4.0
7	☐			964011.39		P	1.5
8	☐			1287710.48		A	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6812.89		P	3.8
2	☐			5884.69		P	6.2
3	☐			7343.74		P	1.0
4	☐			6648.94		P	1.2
5	☐			6068.11		P	7.3
6	☐			5745.74		P	4.5
7	☐			5315.00		P	6.3
8	☐			8805.67		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20184.05	0.0820	P	4.4
2	☐	500.000	478.906	117061.52	0.4589	P	1.3
3	☐	2500.000	2553.475	539016.28	2.0916	P	1.6
4	☐	6250.000	6340.211	1289646.64	5.0717	A	1.6
5	☐	12500.000	12483.706	2452457.48	9.9065	A	2.3
6	☐	25000.000	25031.911	4725097.11	19.7817	A	1.1
7	☐	50000.000	48747.326	9192394.57	38.4454	A	3.5
8	☐	250000.00	250245.41	49783331.32	197.0211	A	0.8

$$y = 7.8698E-004 * x + 0.0820$$

$$R = 1.0000$$

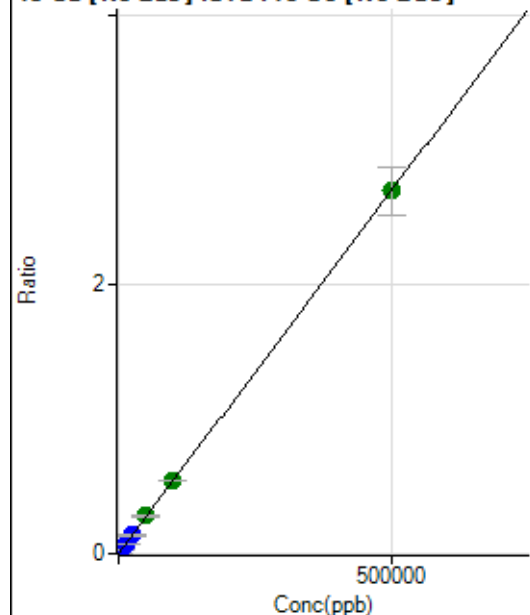
$$DL = 13.76$$

$$BEC = 104.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	509.95	0.0001	P	3.3
2	☐	500.000	472.013	21077.37	0.0026	P	4.3
3	☐	5000.000	5049.544	224679.51	0.0273	P	1.0
4	☐	12500.000	12336.821	563613.79	0.0666	P	1.9
5	☐	25000.000	25231.036	1120567.13	0.1362	P	1.9
6	☐	50000.000	52155.066	2258948.08	0.2815	A	4.2
7	☐	100000.00	100338.51	4479473.98	0.5416	A	1.9
8	☐	500000.00	499708.85	20599258.88	2.6969	A	13.3

$$y = 5.3968\text{E-}006 * x + 6.2956\text{E-}005$$

$$R = 1.0000$$

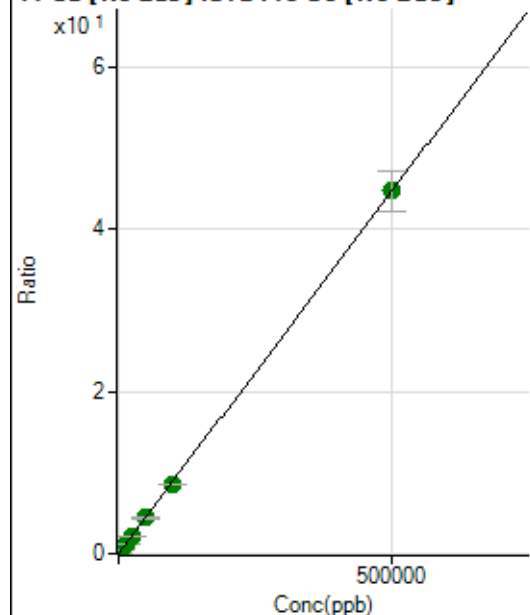
$$DL = 1.165$$

$$BEC = 11.67$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	49126.86	0.0061	P	3.2
2	☐	500.000	471.129	388122.19	0.0481	P	3.3
3	☐	5000.000	5000.522	3716156.45	0.4518	A	1.1
4	☐	12500.000	12140.088	9202897.88	1.0881	A	1.5
5	☐	25000.000	24294.287	17867436.39	2.1714	A	1.8
6	☐	50000.000	49627.842	35539376.80	4.4294	A	4.3
7	☐	100000.00	95606.139	70534812.43	8.5274	A	0.8
8	☐	500000.00	500960.29	341609122.7	44.6564	A	11.1

$$y = 8.9130\text{E-}005 * x + 0.0061$$

$$R = 1.0000$$

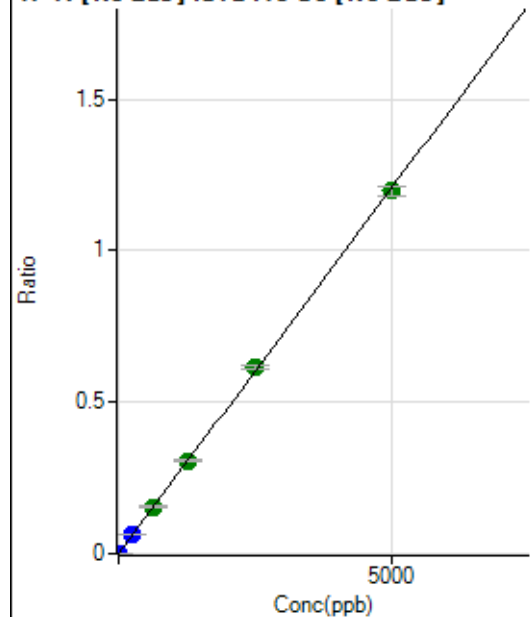
$$DL = 6.53$$

$$BEC = 68.06$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	238.90	0.0000	P	5.9
2	☐	5.000	5.183	10337.36	0.0013	P	3.0
3	☐	250.000	266.770	529632.23	0.0644	P	1.8
4	☐	625.000	642.573	1311162.43	0.1550	A	2.4
5	☐	1250.000	1273.739	2527571.91	0.3073	A	2.6
6	☐	2500.000	2553.992	4945729.06	0.6161	A	2.2
7	☐	5000.000	4964.034	9904592.32	1.1975	A	2.4
8	☐			2039.11	0.0003	P	45.3

$$y = 2.4123E-004 * x + 2.9474E-005$$

R = 0.9999

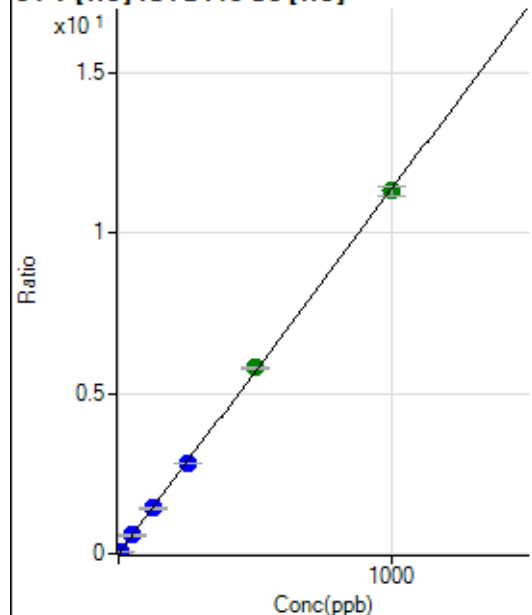
DL = 0.02168

BEC = 0.1222

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10.00	0.0000	P	33.6
2	☐	5.000	4.986	14484.09	0.0568	P	2.5
3	☐	50.000	50.328	147632.91	0.5729	P	1.2
4	☐	125.000	124.113	359190.48	1.4126	P	0.7
5	☐	250.000	248.921	701442.51	2.8332	P	1.3
6	☐	500.000	510.123	1386842.11	5.8061	A	1.2
7	☐	1000.000	995.303	2708945.20	11.3282	A	2.7
8	☐			430.01	0.0017	P	4.0

$$y = 0.0114 * x + 4.0709E-005$$

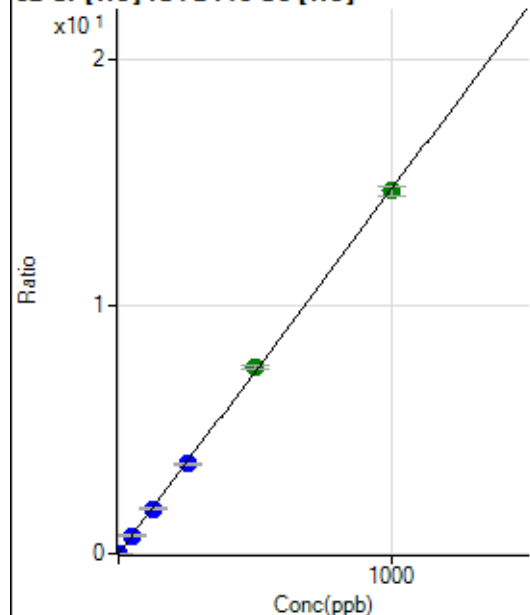
R = 0.9999

DL = 0.003606

BEC = 0.003577

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	900.04	0.0037	P	6.0
2	☐	2.000	1.906	8099.04	0.0317	P	1.5
3	☐	50.000	49.641	189421.66	0.7350	P	1.8
4	☐	125.000	123.469	463492.25	1.8227	P	0.9
5	☐	250.000	245.870	897775.30	3.6261	P	0.9
6	☐	500.000	511.602	1801293.29	7.5411	A	1.4
7	☐	1000.000	995.441	3507859.15	14.6696	A	3.0
8	☐			8573.78	0.0339	P	1.1

$$y = 0.0147 * x + 0.0037$$

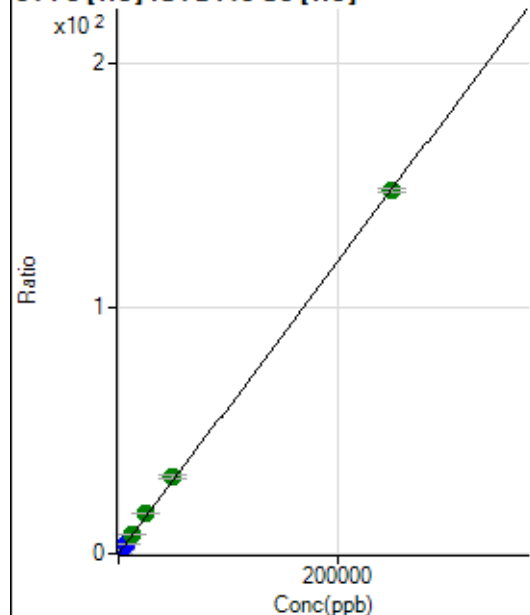
$$R = 0.9999$$

$$DL = 0.04494$$

$$BEC = 0.2483$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	731.51	0.0030	P	1.2
2	☐	50.000	52.435	8689.85	0.0341	P	7.3
3	☐	2500.000	2700.803	413857.83	1.6058	P	1.0
4	☐	6250.000	6690.637	1010402.06	3.9737	P	0.8
5	☐	12500.000	13575.631	1995157.45	8.0598	A	3.3
6	☐	25000.000	27311.767	3872472.16	16.2118	A	0.9
7	☐	50000.000	52820.885	7496708.85	31.3508	A	2.9
8	☐	250000.00	249137.84	37362190.19	147.8600	A	1.2

$$y = 5.9347E-004 * x + 0.0030$$

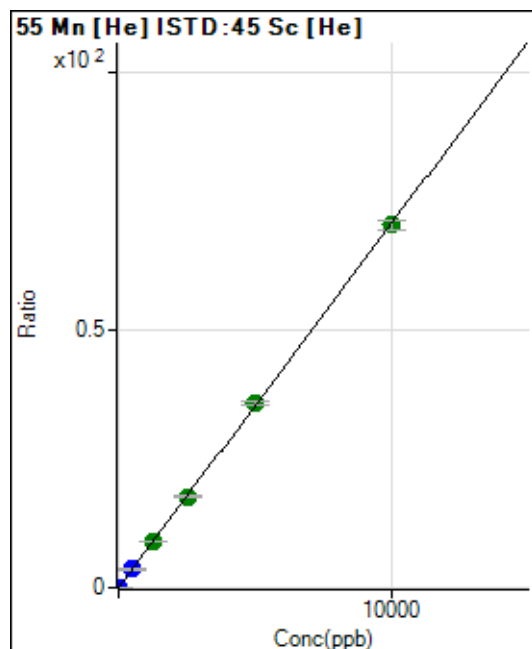
$$R = 0.9999$$

$$DL = 0.1808$$

$$BEC = 5.004$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	97.78	0.0004	P	20.7
2	☐	1.000	1.211	2281.31	0.0089	P	2.5
3	☐	500.000	505.080	918976.31	3.5659	P	1.4
4	☐	1250.000	1266.197	2272730.47	8.9388	A	1.6
5	☐	2500.000	2507.715	4382660.00	17.7030	A	2.4
6	☐	5000.000	5067.225	8544516.61	35.7713	A	1.8
7	☐	10000.000	9962.180	16818089.61	70.3262	A	2.7
8	☐			24687.01	0.0977	P	1.3

$$y = 0.0071 * x + 3.9835E-004$$

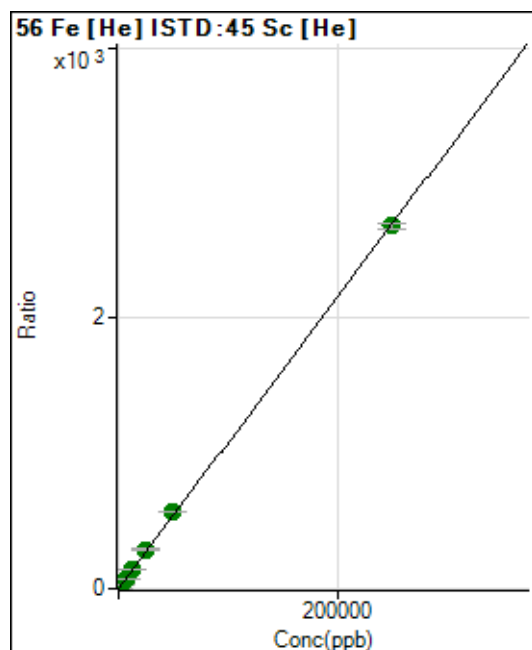
$$R = 1.0000$$

$$DL = 0.03501$$

$$BEC = 0.05643$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	5180.68	0.0211	P	4.8
2	☐	50.000	52.248	148771.46	0.5832	P	1.1
3	☐	2500.000	2691.238	7467013.88	28.9780	A	2.9
4	☐	6250.000	6677.647	18274507.58	71.8706	A	0.3
5	☐	12500.000	13236.542	35264185.05	142.4425	A	1.7
6	☐	25000.000	27020.924	69453908.50	290.7585	A	1.6
7	☐	50000.000	52765.567	135803978.0	567.7635	A	1.1
8	☐	250000.00	249195.36	677621296.6	2,681.292	A	1.7

$$y = 0.0108 * x + 0.0211$$

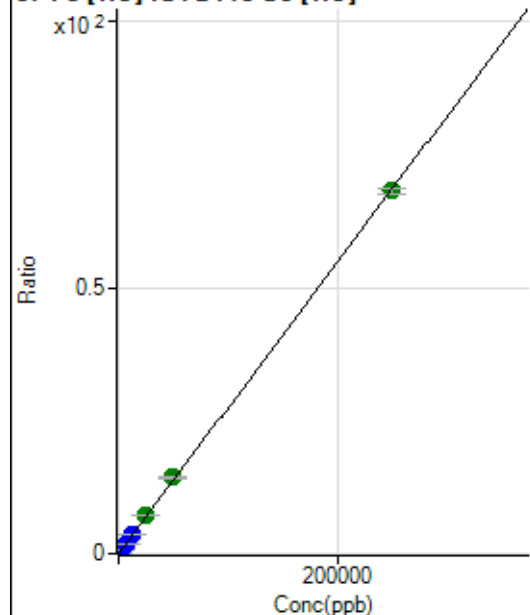
$$R = 0.9999$$

$$DL = 0.2823$$

$$BEC = 1.957$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	222.23	0.0009	P	13.0
2	☐	50.000	51.201	3800.58	0.0149	P	5.4
3	☐	2500.000	2615.275	184435.96	0.7157	P	1.6
4	☐	6250.000	6479.933	450536.00	1.7719	P	1.1
5	☐	12500.000	12970.946	877907.15	3.5460	P	1.0
6	☐	25000.000	26789.414	1749112.29	7.3226	A	1.4
7	☐	50000.000	52518.267	3432588.36	14.3545	A	2.8
8	☐	250000.00	249286.95	17214876.42	68.1328	A	1.6

$$y = 2.7331\text{E-}004 * x + 9.0432\text{E-}004$$

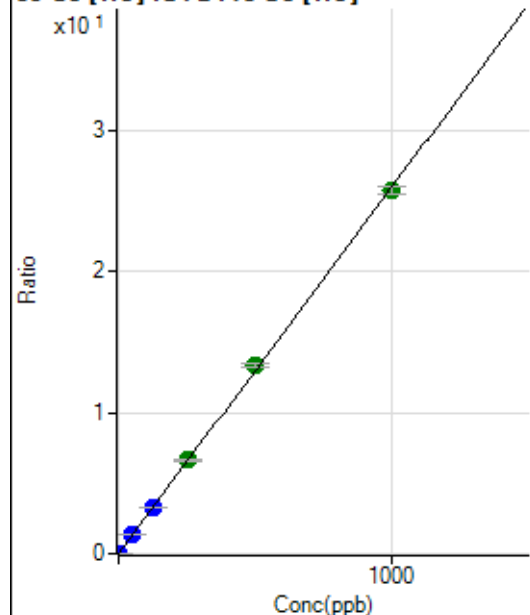
$$R = 0.9999$$

$$DL = 1.289$$

$$BEC = 3.309$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	74.45	0.0003	P	6.8
2	☐	1.000	0.959	6424.85	0.0252	P	3.0
3	☐	50.000	51.174	342393.54	1.3285	P	0.8
4	☐	125.000	126.087	832222.17	3.2729	P	0.2
5	☐	250.000	255.864	1644334.49	6.6413	A	2.3
6	☐	500.000	515.016	3192818.04	13.3677	A	2.3
7	☐	1000.000	990.832	6150585.11	25.7176	A	2.2
8	☐			15084.77	0.0597	P	1.1

$$y = 0.0260 * x + 3.0259\text{E-}004$$

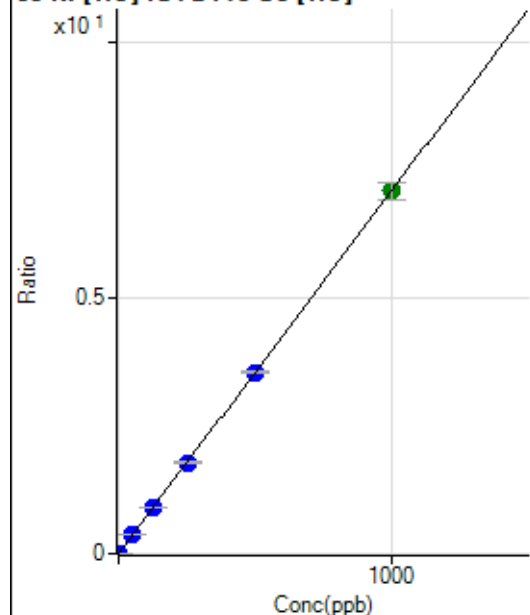
$$R = 0.9998$$

$$DL = 0.002378$$

$$BEC = 0.01166$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	294.45	0.0012	P	10.6
2	☐	1.000	1.063	2227.97	0.0087	P	4.4
3	☐	50.000	50.972	93514.93	0.3629	P	2.1
4	☐	125.000	125.084	225991.18	0.8888	P	0.9
5	☐	250.000	249.129	437949.21	1.7690	P	2.2
6	☐	500.000	500.227	848150.12	3.5508	P	0.7
7	☐	1000.000	1000.045	1696704.16	7.0975	A	4.8
8	☐			4828.64	0.0191	P	3.7

$$y = 0.0071 * x + 0.0012$$

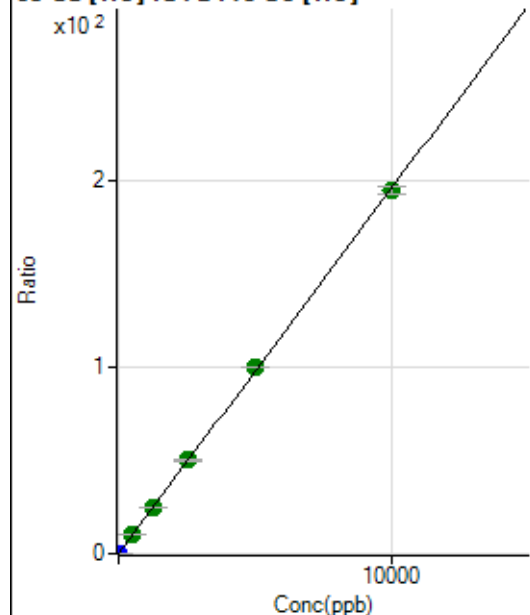
$$R = 1.0000$$

$$DL = 0.05328$$

$$BEC = 0.1681$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	960.04	0.0039	P	6.4
2	☐	2.000	1.826	10133.69	0.0397	P	2.7
3	☐	500.000	522.222	2642239.46	10.2534	A	2.3
4	☐	1250.000	1275.875	6368228.10	25.0451	A	0.6
5	☐	2500.000	2556.759	12423747.87	50.1846	A	2.6
6	☐	5000.000	5100.061	23910703.53	100.1013	A	0.7
7	☐	10000.000	9931.434	46617581.53	194.9252	A	2.1
8	☐			11390.22	0.0451	P	5.0

$$y = 0.0196 * x + 0.0039$$

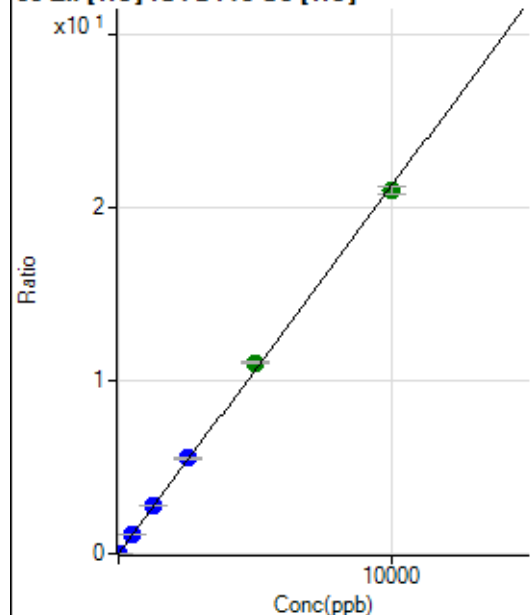
$$R = 0.9999$$

$$DL = 0.03831$$

$$BEC = 0.1985$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	664.46	0.0027	P	5.0
2	☐	2.000	2.090	1822.36	0.0071	P	5.1
3	☐	500.000	533.791	293093.83	1.1373	P	1.3
4	☐	1250.000	1306.459	706787.99	2.7796	P	0.5
5	☐	2500.000	2601.858	1369795.74	5.5329	P	1.5
6	☐	5000.000	5193.244	2637385.80	11.0409	A	0.5
7	☐	10000.000	9869.167	5017577.18	20.9796	A	2.1
8	☐			8213.57	0.0325	P	4.6

$$y = 0.0021 * x + 0.0027$$

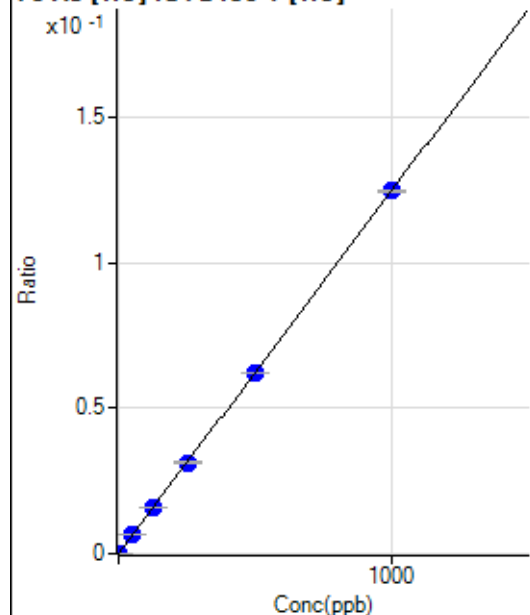
$$R = 0.9997$$

$$DL = 0.191$$

$$BEC = 1.27$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.67	0.0000	P	47.1
2	☐	1.000	0.999	335.37	0.0001	P	4.0
3	☐	50.000	52.075	17268.58	0.0065	P	1.2
4	☐	125.000	125.230	41673.56	0.0156	P	0.4
5	☐	250.000	251.647	81078.37	0.0313	P	2.8
6	☐	500.000	498.920	158012.65	0.0621	P	0.7
7	☐	1000.000	999.996	310030.01	0.1246	P	0.5
8	☐			101.01	0.0000	P	13.2

$$y = 1.2456E-004 * x + 2.2425E-006$$

$$R = 1.0000$$

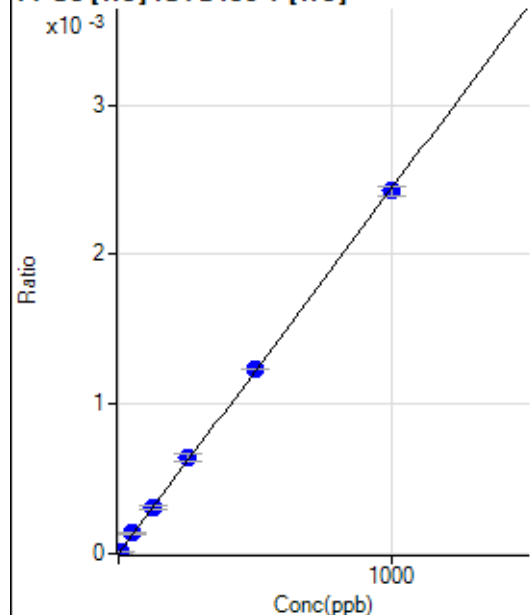
$$DL = 0.02546$$

$$BEC = 0.018$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	5.000	5.479	37.78	0.0000	P	41.1
3	☐	50.000	55.068	360.01	0.0001	P	1.9
4	☐	125.000	126.748	828.92	0.0003	P	10.1
5	☐	250.000	264.090	1667.90	0.0006	P	8.7
6	☐	500.000	504.576	3133.72	0.0012	P	0.4
7	☐	1000.000	993.715	6039.13	0.0024	P	2.4
8	☐			1.11	0.0000	P	173.2

$$y = 2.4408\text{E-}006 * x + 8.6219\text{E-}007$$

$$R = 0.9999$$

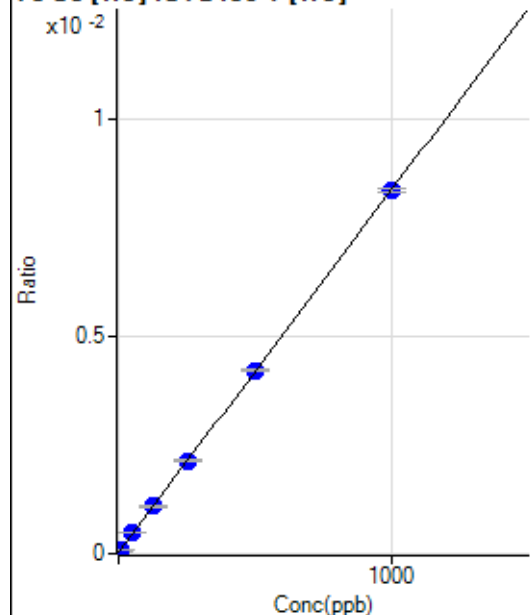
$$DL = 1.835$$

$$BEC = 0.3532$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	73.01	0.0000	P	6.4
2	☐	5.000	4.984	185.69	0.0001	P	6.6
3	☐	50.000	53.981	1272.85	0.0005	P	3.6
4	☐	125.000	126.575	2893.26	0.0011	P	3.9
5	☐	250.000	253.267	5532.31	0.0021	P	2.2
6	☐	500.000	502.856	10724.82	0.0042	P	0.5
7	☐	1000.000	997.359	20752.99	0.0083	P	0.9
8	☐			77.68	0.0000	P	14.6

$$y = 8.3312\text{E-}006 * x + 2.8632\text{E-}005$$

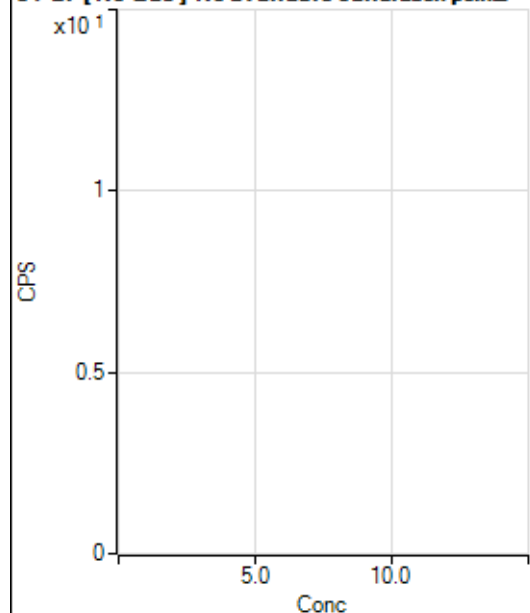
$$R = 1.0000$$

$$DL = 0.6617$$

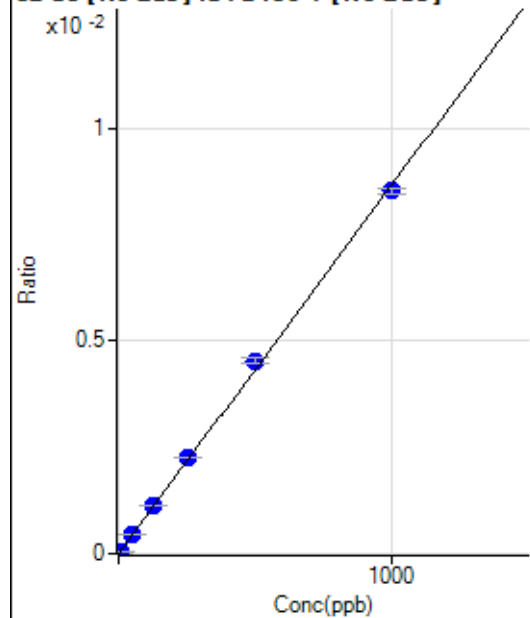
$$BEC = 3.437$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25843.83		P	1.4
2	☐			25329.19		P	1.8
3	☐			26118.03		P	0.8
4	☐			24897.74		P	1.3
5	☐			24744.34		P	5.2
6	☐			24576.96		P	1.6
7	☐			23614.30		P	3.7
8	☐			25920.69		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.55	0.0000	P	6430.
2	☐	5.000	5.758	1170.12	0.0000	P	7.0
3	☐	50.000	54.022	11146.52	0.0005	P	1.1
4	☐	125.000	129.911	27584.95	0.0011	P	1.8
5	☐	250.000	260.666	54490.13	0.0023	P	0.6
6	☐	500.000	523.256	105715.36	0.0045	P	3.0
7	☐	1000.000	984.887	206809.29	0.0085	P	1.9
8	☐			249.79	0.0000	P	52.3

$$y = 8.6549E-006 * x + 7.3495E-008$$

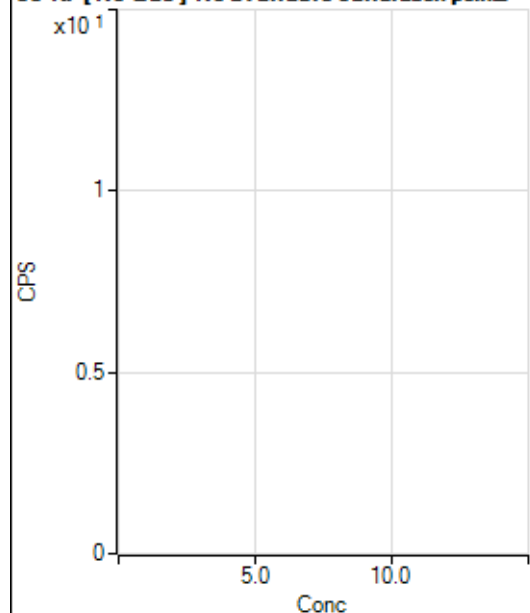
$$R = 0.9995$$

$$DL = 1.638$$

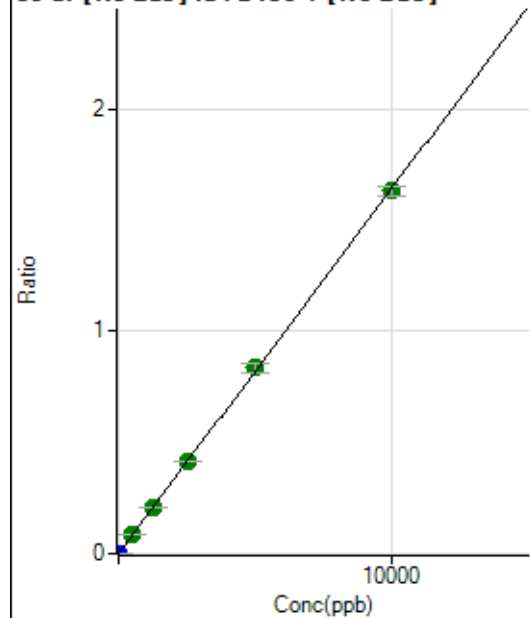
$$BEC = 0.008492$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1011.16		P	9.7
2	☐			962.27		P	11.8
3	☐			993.38		P	4.4
4	☐			1051.16		P	10.2
5	☐			982.27		P	5.1
6	☐			1041.16		P	1.3
7	☐			1040.05		P	7.7
8	☐			1098.95		P	10.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1586.25	0.0001	P	1.3
2	☐	1.000	1.147	5998.68	0.0003	P	2.1
3	☐	500.000	524.226	2052071.18	0.0861	A	1.0
4	☐	1250.000	1250.654	5036156.10	0.2053	A	0.3
5	☐	2500.000	2518.653	9982402.83	0.4133	A	1.0
6	☐	5000.000	5098.159	19521299.74	0.8365	A	4.8
7	☐	10000.000	9944.964	39586046.02	1.6318	A	2.8
8	☐			28446.62	0.0013	P	22.7

$$y = 1.6407E-004 * x + 6.7656E-005$$

$$R = 0.9999$$

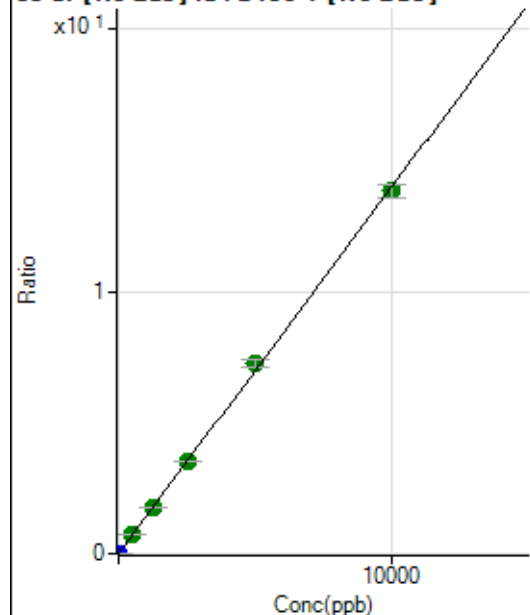
$$DL = 0.01615$$

$$BEC = 0.4124$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	530.58	0.0000	P	19.9
2	☐	1.000	1.131	37593.00	0.0016	P	1.0
3	☐	500.000	520.146	17330869.31	0.7270	A	0.9
4	☐	1250.000	1249.960	42858877.00	1.7470	A	1.6
5	☐	2500.000	2513.037	84830561.62	3.5123	A	0.5
6	☐	5000.000	5188.981	169261851.0	7.2523	A	4.1
7	☐	10000.000	9901.248	335664938.0	13.8383	A	3.7
8	☐			226228.50	0.0102	P	23.1

$$y = 0.0014 * x + 2.2602E-005$$

$$R = 0.9997$$

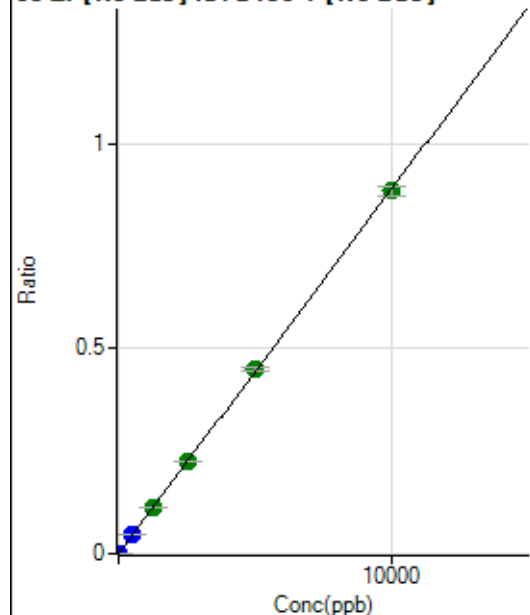
$$DL = 0.009645$$

$$BEC = 0.01617$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1008.40	0.0000	P	1.9
2	☐	1.000	9.803	21417.03	0.0009	P	0.6
3	☐	500.000	517.341	1095947.35	0.0460	P	1.4
4	☐	1250.000	1256.818	2738909.20	0.1116	A	0.9
5	☐	2500.000	2538.963	5446032.59	0.2255	A	0.4
6	☐	5000.000	5069.971	10510635.04	0.4502	A	2.3
7	☐	10000.000	9953.553	21441882.42	0.8838	A	2.4
8	☐			10284.66	0.0005	P	25.0

$$y = 8.8792E-005 * x + 4.3006E-005$$

$$R = 1.0000$$

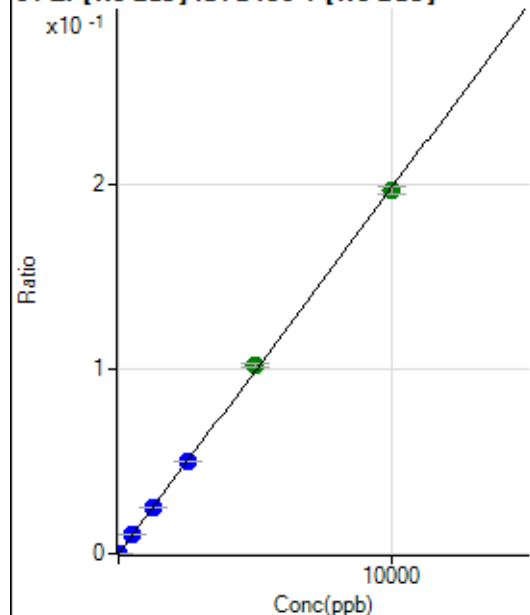
$$DL = 0.02823$$

$$BEC = 0.4843$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	230.57	0.0000	P	6.6
2	☐	1.000	9.345	4561.98	0.0002	P	1.5
3	☐	500.000	515.431	243182.64	0.0102	P	0.7
4	☐	1250.000	1252.383	607774.61	0.0248	P	1.5
5	☐	2500.000	2517.662	1202607.11	0.0498	P	1.1
6	☐	5000.000	5145.829	2375618.78	0.1018	A	2.7
7	☐	10000.000	9921.599	4759994.81	0.1962	A	2.2
8	☐			2325.27	0.0001	P	25.0

$$y = 1.9774\text{E-}005 * x + 9.8390\text{E-}006$$

$$R = 0.9998$$

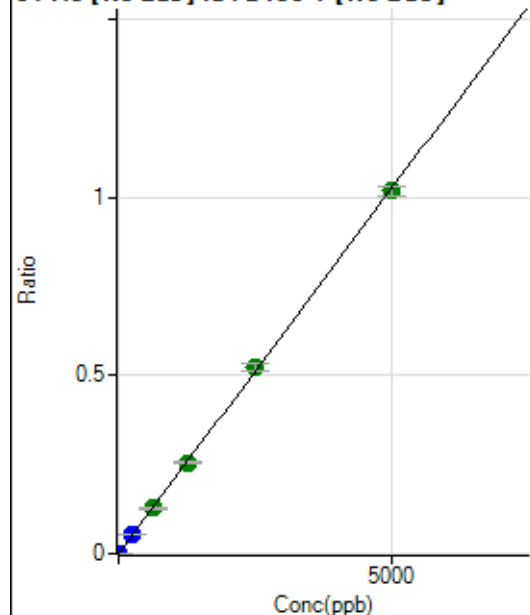
$$DL = 0.09807$$

$$BEC = 0.4976$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	433.35	0.0000	P	14.3
2	☐	5.000	4.913	24037.99	0.0010	P	1.8
3	☐	250.000	260.342	1271708.89	0.0534	P	0.9
4	☐	625.000	619.727	3114828.22	0.1270	A	2.3
5	☐	1250.000	1245.798	6164251.78	0.2552	A	1.4
6	☐	2500.000	2562.941	12254337.17	0.5251	A	4.0
7	☐	5000.000	4969.722	24698330.41	1.0181	A	2.6
8	☐			8714.18	0.0004	P	31.5

$$y = 2.0486\text{E-}004 * x + 1.8501\text{E-}005$$

$$R = 0.9999$$

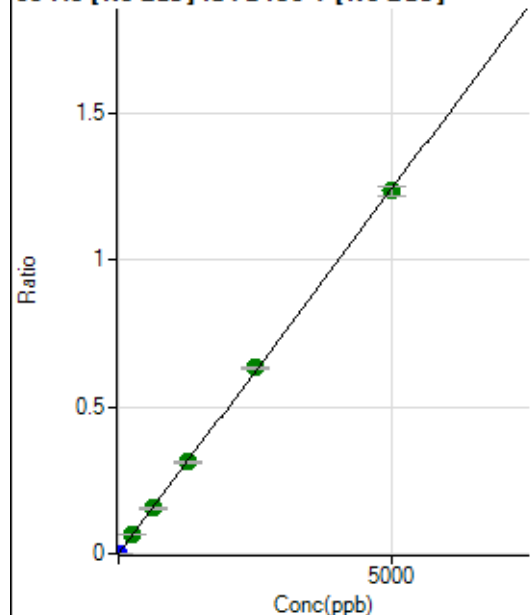
$$DL = 0.03885$$

$$BEC = 0.09031$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0000	P	48.9
2	☐	5.000	5.063	29537.57	0.0013	P	2.0
3	☐	250.000	255.613	1513302.10	0.0635	A	2.8
4	☐	625.000	623.589	3800002.91	0.1549	A	2.1
5	☐	1250.000	1254.421	7525939.75	0.3116	A	1.2
6	☐	2500.000	2546.398	14769578.80	0.6325	A	1.2
7	☐	5000.000	4975.591	29981243.73	1.2359	A	3.0
8	☐			7863.70	0.0004	P	38.5

$$y = 2.4839\text{E-}004 * x + 2.6159\text{E-}006$$

$$R = 0.9999$$

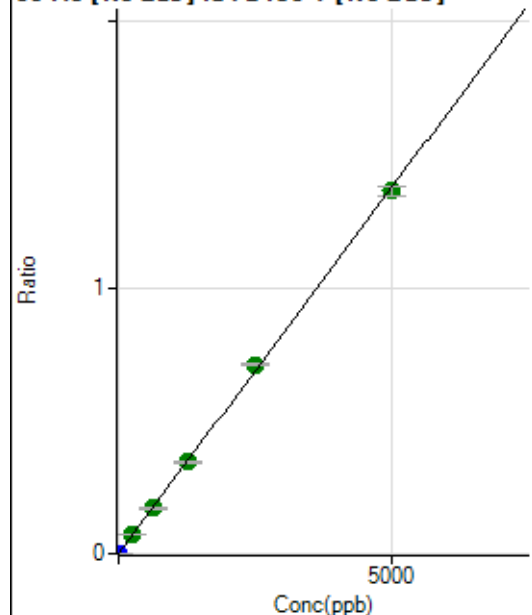
$$DL = 0.01544$$

$$BEC = 0.01053$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	188.90	0.0000	P	27.7
2	☐	5.000	5.029	32608.56	0.0014	P	2.0
3	☐	250.000	260.897	1710759.17	0.0718	A	1.2
4	☐	625.000	617.585	4167389.72	0.1699	A	2.3
5	☐	1250.000	1249.139	8298858.26	0.3436	A	1.2
6	☐	2500.000	2585.138	16605168.77	0.7111	A	1.1
7	☐	5000.000	4958.028	33084575.05	1.3638	A	2.5
8	☐			22939.14	0.0010	P	19.9

$$y = 2.7506\text{E-}004 * x + 8.0730\text{E-}006$$

$$R = 0.9998$$

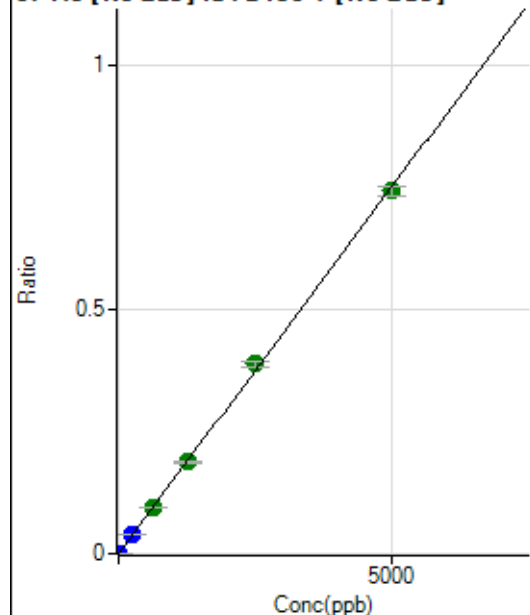
$$DL = 0.02435$$

$$BEC = 0.02935$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	62.6
2	☐	5.000	5.102	17973.17	0.0008	P	0.8
3	☐	250.000	262.649	939163.15	0.0394	P	1.6
4	☐	625.000	633.046	2329646.97	0.0950	A	2.2
5	☐	1250.000	1249.754	4528137.51	0.1875	A	0.6
6	☐	2500.000	2594.882	9087059.49	0.3893	A	2.8
7	☐	5000.000	4950.982	18017710.47	0.7427	A	2.5
8	☐			4712.08	0.0002	P	37.1

$$y = 1.5001\text{E-}004 * x + 1.1886\text{E-}006$$

$$R = 0.9997$$

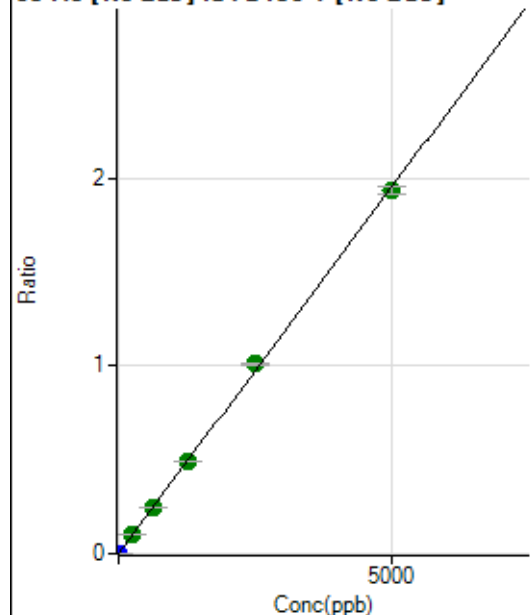
$$DL = 0.01489$$

$$BEC = 0.007924$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	119.45	0.0000	P	24.2
2	☐	5.000	5.091	46668.02	0.0020	P	2.0
3	☐	250.000	260.956	2426733.19	0.1018	A	0.9
4	☐	625.000	638.305	6108680.47	0.2490	A	0.8
5	☐	1250.000	1256.993	11842690.72	0.4903	A	0.2
6	☐	2500.000	2588.178	23572002.96	1.0096	A	1.7
7	☐	5000.000	4951.952	46862539.24	1.9316	A	2.2
8	☐			11683.37	0.0005	P	36.1

$$y = 3.9007\text{E-}004 * x + 5.0912\text{E-}006$$

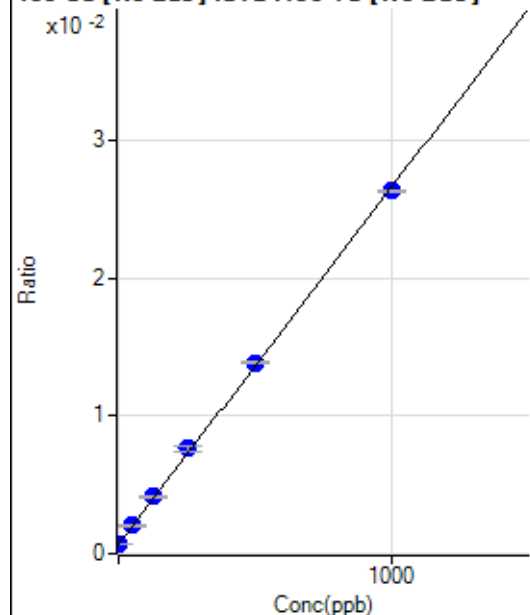
$$R = 0.9998$$

$$DL = 0.009465$$

$$BEC = 0.01305$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6751.83	0.0007	P	5.9
2	☐	1.000	0.822	7035.35	0.0007	P	1.0
3	☐	50.000	53.412	21475.59	0.0021	P	5.0
4	☐	125.000	133.458	44419.73	0.0041	P	3.3
5	☐	250.000	268.069	80524.72	0.0076	P	4.3
6	☐	500.000	508.586	147427.25	0.0138	P	1.1
7	☐	1000.000	989.962	285895.05	0.0263	P	0.8
8	☐			6359.99	0.0006	P	1.2

$$y = 2.5881\text{E-}005 * x + 6.7960\text{E-}004$$

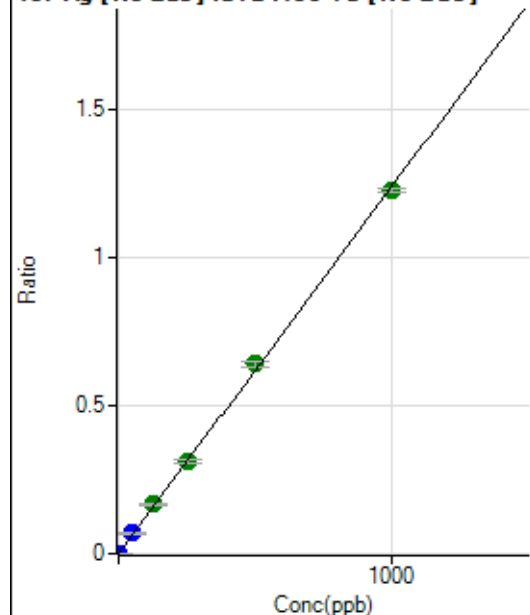
$$R = 0.9997$$

$$DL = 4.665$$

$$BEC = 26.26$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1166.75	0.0001	P	11.8
2	☐	1.000	1.008	13676.61	0.0014	P	3.6
3	☐	50.000	55.728	718516.62	0.0690	P	3.8
4	☐	125.000	135.294	1797841.49	0.1673	A	2.9
5	☐	250.000	252.965	3305161.75	0.3127	A	4.6
6	☐	500.000	516.753	6800912.30	0.6387	A	2.2
7	☐	1000.000	989.309	13289429.03	1.2226	A	0.9
8	☐			3539.46	0.0004	P	34.1

$$y = 0.0012 * x + 1.1747\text{E-}004$$

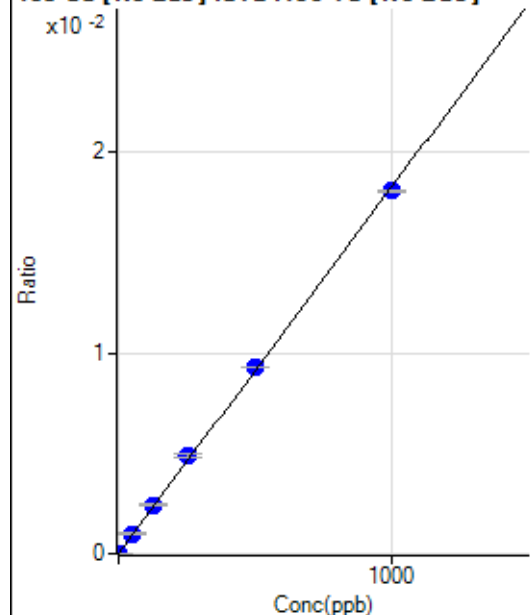
$$R = 0.9998$$

$$DL = 0.03359$$

$$BEC = 0.09507$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	62.50	0.0000	P	29.7
2	☐	1.000	1.037	252.78	0.0000	P	17.8
3	☐	50.000	54.525	10426.30	0.0010	P	4.1
4	☐	125.000	132.591	26063.57	0.0024	P	2.7
5	☐	250.000	265.536	51272.73	0.0049	P	4.3
6	☐	500.000	509.426	99038.80	0.0093	P	0.8
7	☐	1000.000	990.228	196435.74	0.0181	P	0.6
8	☐			155.56	0.0000	P	26.6

$$y = 1.8243\text{E-}005 * x + 6.2949\text{E-}006$$

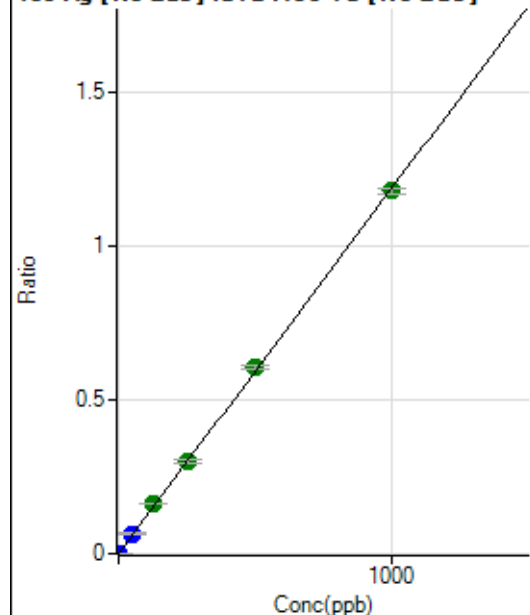
$$R = 0.9998$$

$$DL = 0.3078$$

$$BEC = 0.3451$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1083.41	0.0001	P	6.6
2	☐	1.000	0.970	12628.33	0.0013	P	0.6
3	☐	50.000	55.204	682707.34	0.0655	P	2.9
4	☐	125.000	134.520	1715055.54	0.1595	A	0.3
5	☐	250.000	250.490	3140011.10	0.2969	A	4.2
6	☐	500.000	508.856	6422421.98	0.6031	A	1.9
7	☐	1000.000	993.999	12804775.63	1.1780	A	1.5
8	☐			3219.93	0.0003	P	39.8

$$y = 0.0012 * x + 1.0904\text{E-}004$$

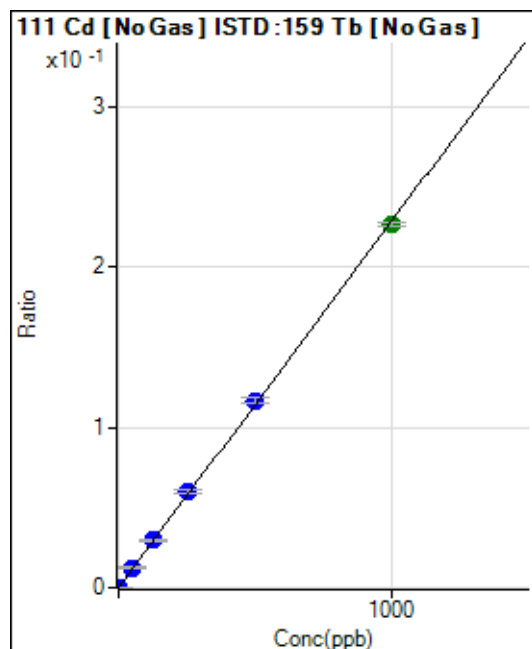
$$R = 0.9999$$

$$DL = 0.01817$$

$$BEC = 0.09202$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	673.10	0.0001	P	5.9
2	☐	1.000	1.039	3062.96	0.0003	P	3.6
3	☐	50.000	54.400	130261.55	0.0125	P	3.3
4	☐	125.000	130.457	321213.43	0.0299	P	3.2
5	☐	250.000	262.746	635830.76	0.0601	P	2.8
6	☐	500.000	510.630	1243649.26	0.1168	P	2.7
7	☐	1000.000	990.596	2462259.70	0.2265	A	0.9
8	☐			1231.30	0.0001	P	17.6

$$y = 2.2861\text{E-}004 * x + 6.7742\text{E-}005$$

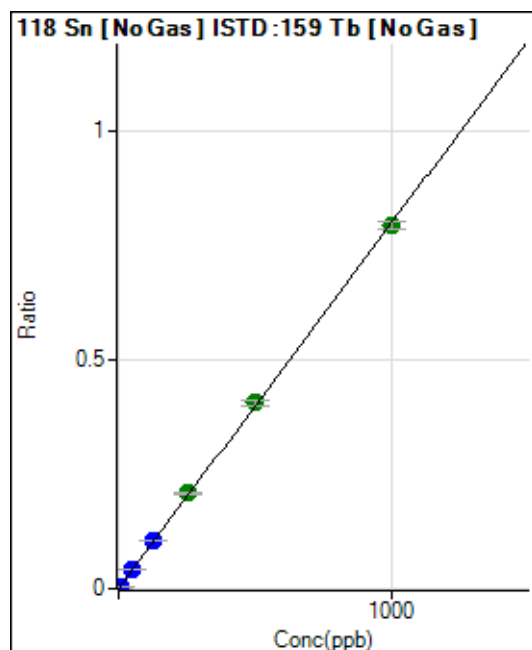
R = 0.9998

DL = 0.05277

BEC = 0.2963

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1966.88	0.0002	P	8.1
2	☐	5.000	5.102	42921.18	0.0043	P	2.7
3	☐	50.000	52.850	442289.85	0.0424	P	2.7
4	☐	125.000	130.162	1120648.75	0.1043	P	1.9
5	☐	250.000	260.804	2207330.39	0.2087	A	2.3
6	☐	500.000	508.407	4330742.85	0.4066	A	2.9
7	☐	1000.000	992.307	8624874.67	0.7935	A	2.0
8	☐			3581.13	0.0004	P	21.0

$$y = 7.9945\text{E-}004 * x + 1.9798\text{E-}004$$

R = 0.9999

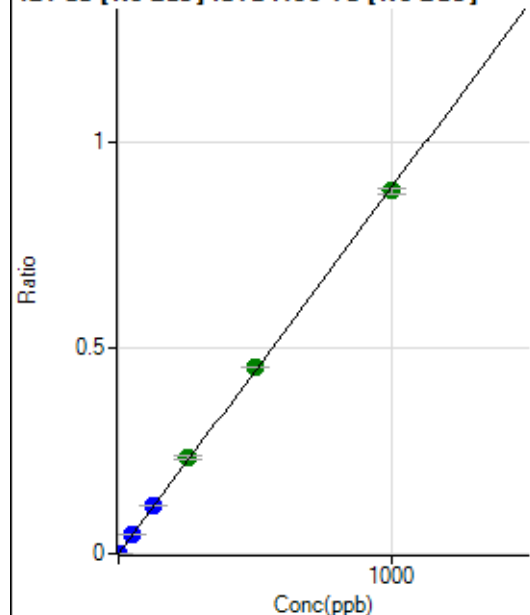
DL = 0.0602

BEC = 0.2476

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	32.8
2	☐	2.000	2.108	18885.85	0.0019	P	2.1
3	☐	50.000	53.049	492102.97	0.0472	P	2.8
4	☐	125.000	130.732	1251029.74	0.1164	P	1.5
5	☐	250.000	262.954	2475479.90	0.2341	A	2.3
6	☐	500.000	509.486	4830181.10	0.4536	A	0.9
7	☐	1000.000	991.150	9590812.97	0.8824	A	1.5
8	☐			6196.04	0.0006	P	19.2

$$y = 8.9023E-004 * x + 5.3060E-006$$

$$R = 0.9998$$

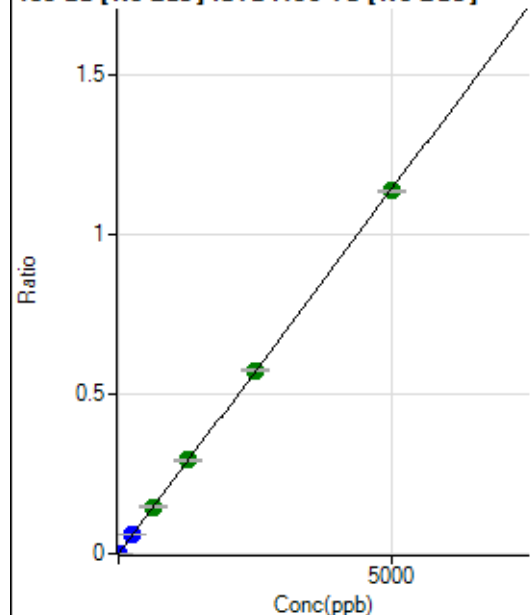
$$DL = 0.005861$$

$$BEC = 0.00596$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	21.1
2	☐	10.000	10.316	23657.35	0.0024	P	2.1
3	☐	250.000	262.805	624576.49	0.0599	P	3.0
4	☐	625.000	645.150	1581677.35	0.1472	A	2.2
5	☐	1250.000	1289.753	3111375.83	0.2942	A	1.6
6	☐	2500.000	2517.299	6115460.55	0.5742	A	1.0
7	☐	5000.000	4978.253	12342837.86	1.1355	A	0.6
8	☐			4256.38	0.0004	P	30.5

$$y = 2.2809E-004 * x + 4.1988E-006$$

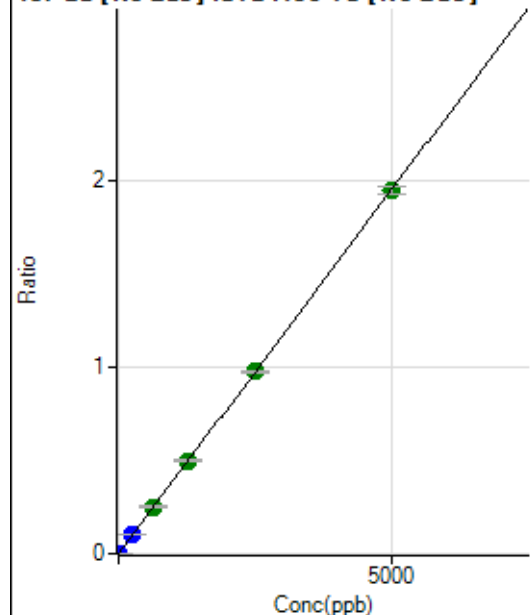
$$R = 1.0000$$

$$DL = 0.01164$$

$$BEC = 0.01841$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	22.7
2	☐	10.000	10.399	40737.20	0.0041	P	1.7
3	☐	250.000	264.861	1075069.01	0.1032	P	4.5
4	☐	625.000	645.421	2703042.21	0.2515	A	3.0
5	☐	1250.000	1279.202	5272941.18	0.4985	A	1.3
6	☐	2500.000	2506.785	10404417.94	0.9769	A	1.2
7	☐	5000.000	4986.010	21122016.79	1.9431	A	2.2
8	☐			7268.88	0.0008	P	29.0

$$y = 3.8970E-004 * x + 5.2994E-006$$

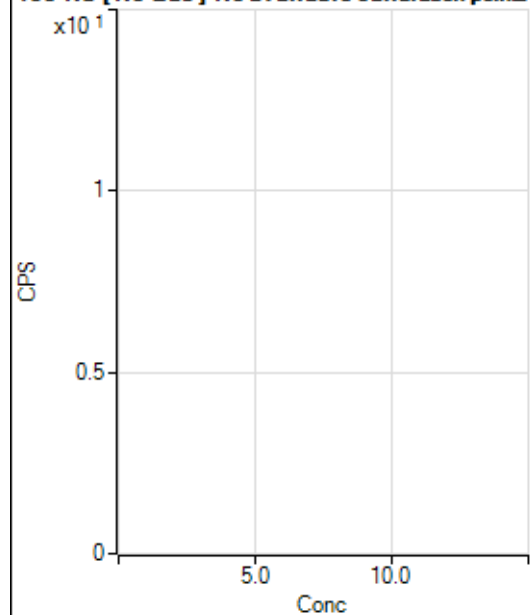
$$R = 1.0000$$

$$DL = 0.009276$$

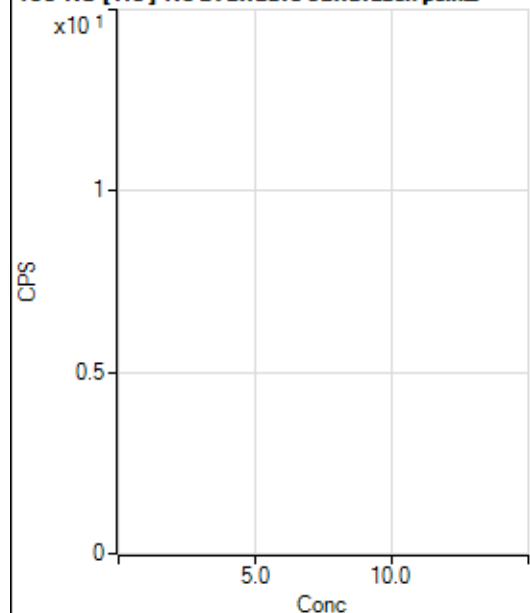
$$BEC = 0.0136$$

Weight: <None>

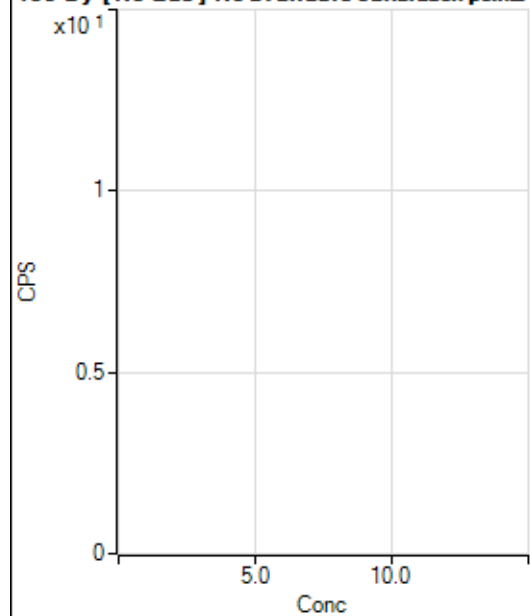
Min Conc: 0

150 Nd [No Gas] No available calibration points

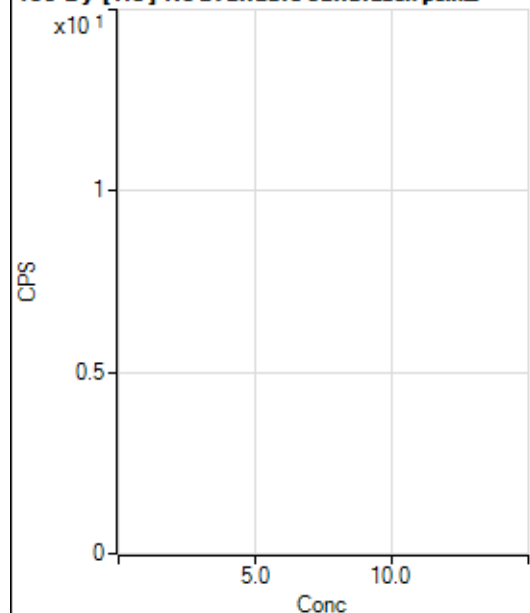
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	173.2
2	☐			13.33		P	50.0
3	☐			20.00		P	57.7
4	☐			82.22		P	30.7
5	☐			140.00		P	36.0
6	☐			317.79		P	8.7
7	☐			535.58		P	10.6
8	☐			88.89		P	35.4

150 Nd [He] No available calibration points

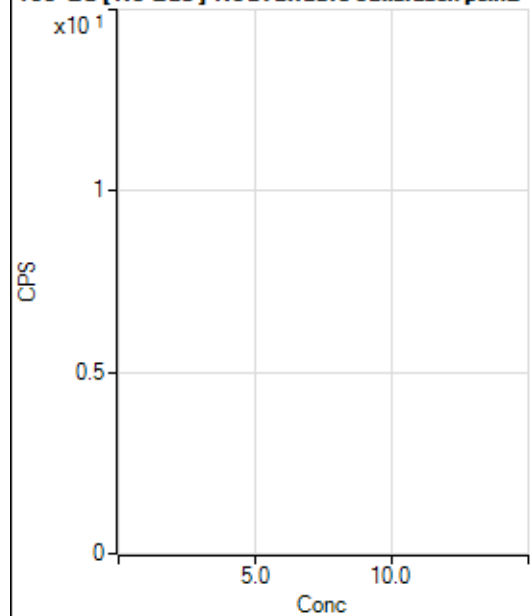
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			1.11		P	173.2
4	☐			6.67		P	50.0
5	☐			7.78		P	99.0
6	☐			24.44		P	41.7
7	☐			45.56		P	22.4
8	☐			24.44		P	47.9

156 Dy [No Gas] No available calibration points

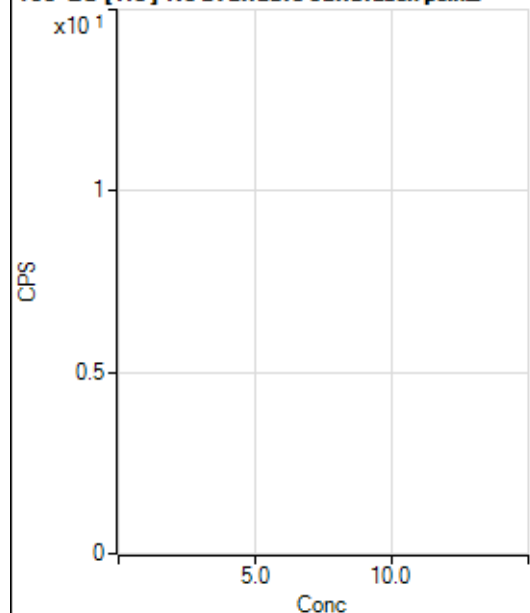
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	43.3
2	☐			16.67		P	NaN
3	☐			50.00		P	16.7
4	☐			77.78		P	37.6
5	☐			125.01		P	23.1
6	☐			266.68		P	8.3
7	☐			475.02		P	8.8
8	☐			1680.71		P	2.0

156 Dy [He] No available calibration points

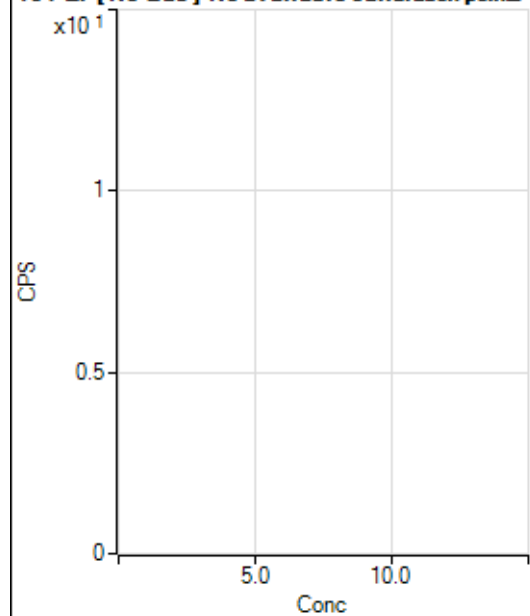
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			0.00		P	
3	☐			11.11		P	45.8
4	☐			22.22		P	31.2
5	☐			52.22		P	35.2
6	☐			121.11		P	1.6
7	☐			190.00		P	9.3
8	☐			858.92		P	8.8

160 Gd [No Gas] Noavailable calibration poin_

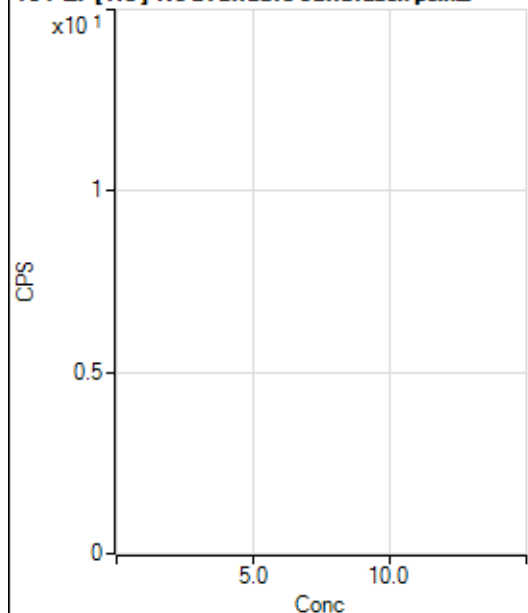
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			72.22		P	46.6
2	☐			100.00		P	50.7
3	☐			108.34		P	15.4
4	☐			125.00		P	24.0
5	☐			158.34		P	13.9
6	☐			250.01		P	12.0
7	☐			386.13		P	6.2
8	☐			1489.02		P	4.7

160 Gd [He] No available calibration points

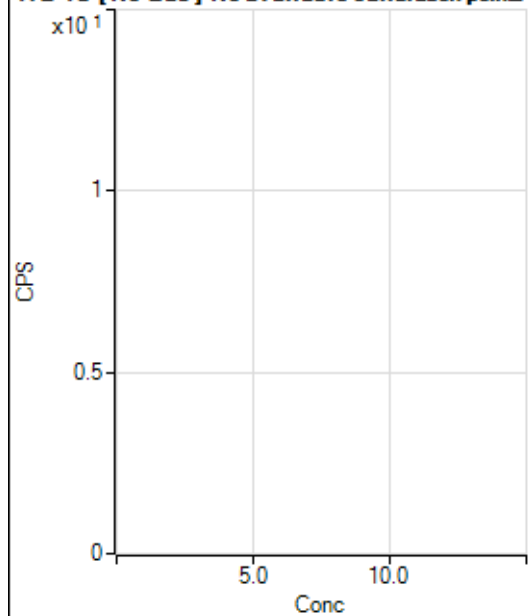
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			54.44		P	9.4
2	☐			72.22		P	26.2
3	☐			73.33		P	15.7
4	☐			104.44		P	12.1
5	☐			101.11		P	23.2
6	☐			148.89		P	18.1
7	☐			216.67		P	7.0
8	☐			914.49		P	8.5

164 Er [No Gas] No available calibration points

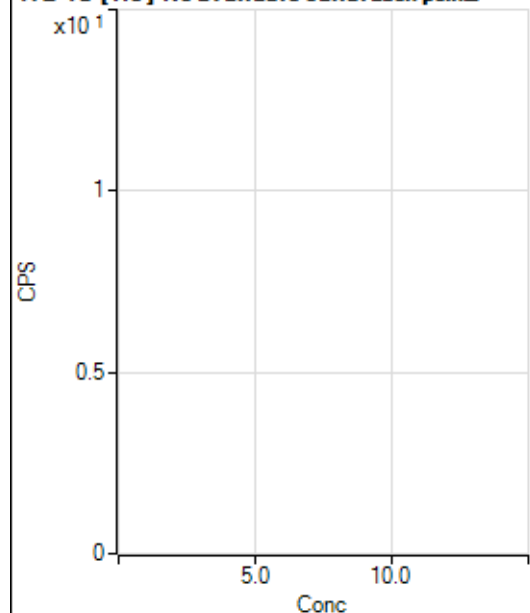
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.22		P	50.9
2	☐			75.00		P	33.3
3	☐			86.11		P	11.2
4	☐			61.11		P	77.5
5	☐			127.78		P	7.5
6	☐			80.56		P	23.9
7	☐			125.00		P	13.3
8	☐			308.35		P	28.5

164 Er [He] No available calibration points

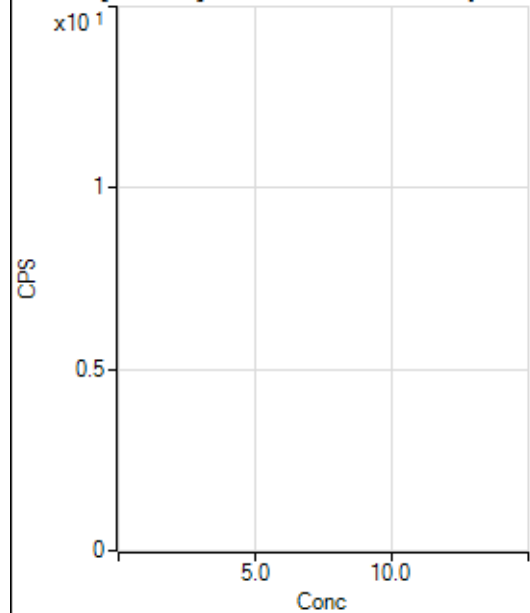
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			32.22		P	12.0
2	☐			24.44		P	20.8
3	☐			33.33		P	10.0
4	☐			48.89		P	34.3
5	☐			43.33		P	58.1
6	☐			48.89		P	65.5
7	☐			70.00		P	29.0
8	☐			126.67		P	14.7

172 Yb [No Gas] No available calibration points

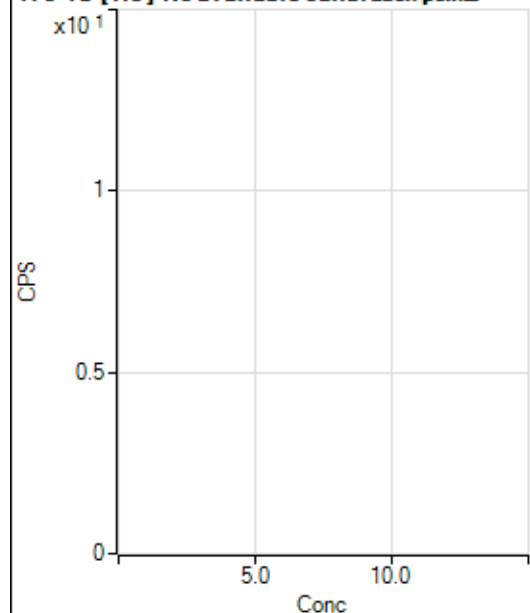
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			41.66		P	34.6
2	☐			36.11		P	66.6
3	☐			30.56		P	56.8
4	☐			27.78		P	17.3
5	☐			44.45		P	84.6
6	☐			33.33		P	50.0
7	☐			27.78		P	45.8
8	☐			141.68		P	10.2

172 Yb [He] No available calibration points

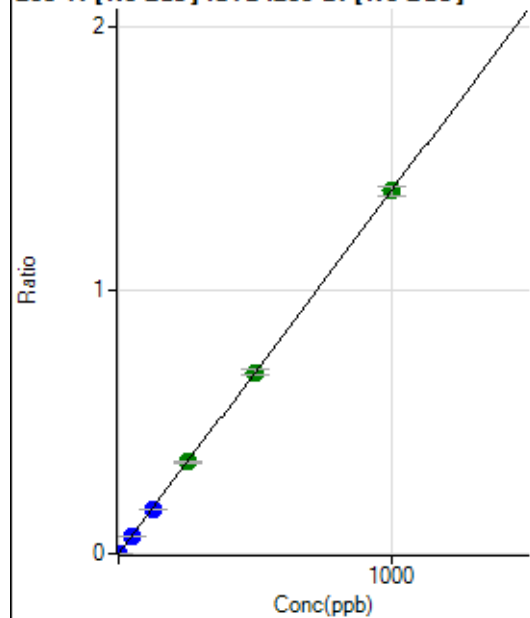
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			20.37		P	103.2
2	☐			18.52		P	17.3
3	☐			20.37		P	15.7
4	☐			27.78		P	69.3
5	☐			20.37		P	31.5
6	☐			20.37		P	78.7
7	☐			40.74		P	68.6
8	☐			57.41		P	14.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1533.47		P	14.8
2	☐			1314.00		P	2.6
3	☐			2855.95		P	8.7
4	☐			5287.32		P	5.2
5	☐			9047.80		P	4.3
6	☐			17400.84		P	1.8
7	☐			33286.98		P	3.6
8	☐			1327.89		P	11.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4736.11		P	0.5
2	☐			4191.48		P	1.8
3	☐			5180.75		P	5.1
4	☐			6240.47		P	0.3
5	☐			8601.10		P	2.9
6	☐			13021.48		P	3.0
7	☐			21523.39		P	1.8
8	☐			4410.08		P	7.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	350.02	0.0001	P	4.7
2	☐	1.000	0.963	7163.31	0.0014	P	3.9
3	☐	50.000	49.620	353750.03	0.0685	P	2.4
4	☐	125.000	121.272	902466.56	0.1672	P	1.2
5	☐	250.000	253.368	1883258.81	0.3493	A	1.7
6	☐	500.000	499.563	3775305.34	0.6886	A	2.9
7	☐	1000.000	999.861	7396330.20	1.3782	A	2.6
8	☐			1702.95	0.0004	P	38.0

$$y = 0.0014 * x + 6.8317E-005$$

$$R = 1.0000$$

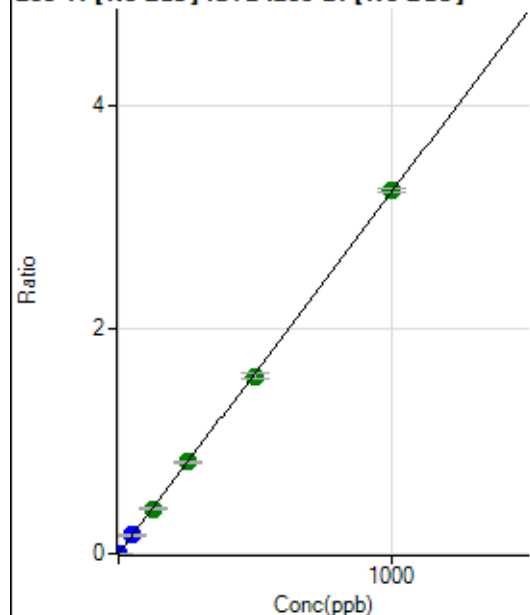
$$DL = 0.006996$$

$$BEC = 0.04957$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	811.16	0.0002	P	3.2
2	☐	1.000	0.944	16430.28	0.0032	P	2.4
3	☐	50.000	50.779	847331.76	0.1640	P	1.9
4	☐	125.000	124.746	2172527.04	0.4026	A	2.9
5	☐	250.000	254.834	4432981.13	0.8222	A	2.3
6	☐	500.000	490.547	8675641.95	1.5826	A	3.0
7	☐	1000.000	1003.511	17375533.03	3.2374	A	0.9
8	☐			3989.64	0.0009	P	29.0

$$y = 0.0032 * x + 1.5835E-004$$

$$R = 0.9999$$

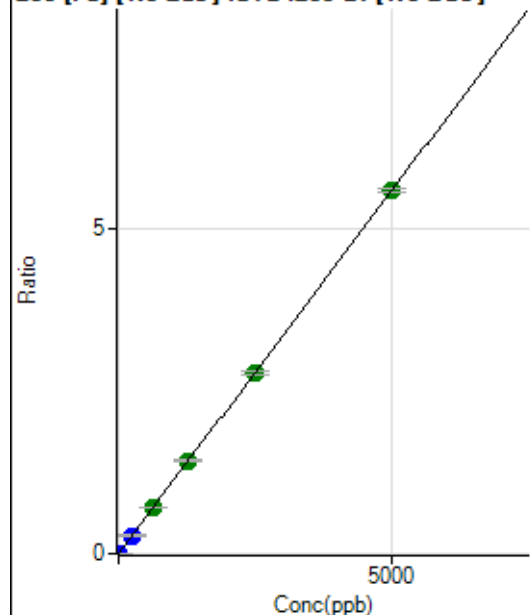
$$DL = 0.004753$$

$$BEC = 0.04909$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	729.66	0.0001	P	10.5
2	☐	1.000	0.952	6192.33	0.0012	P	2.5
3	☐	250.000	248.347	1436954.14	0.2781	P	3.6
4	☐	625.000	634.814	3835477.34	0.7107	A	1.8
5	☐	1250.000	1274.094	7689845.89	1.4263	A	2.3
6	☐	2500.000	2485.276	15254044.44	2.7819	A	2.2
7	☐	5000.000	5000.194	30040791.88	5.5969	A	0.9
8	☐			14725.25	0.0033	P	20.0

$$y = 0.0011 * x + 1.4226E-004$$

$$R = 1.0000$$

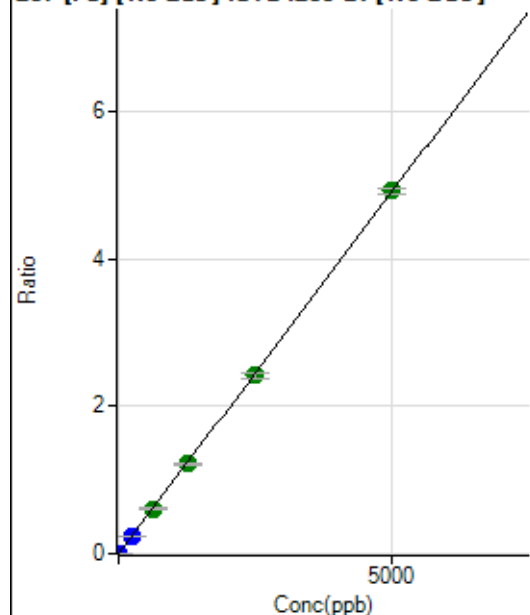
$$DL = 0.03989$$

$$BEC = 0.1271$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	687.07	0.0001	P	6.2
2	☐	1.000	1.009	5764.37	0.0011	P	4.0
3	☐	250.000	246.289	1249130.03	0.2417	P	0.8
4	☐	625.000	621.717	3291415.96	0.6100	A	2.4
5	☐	1250.000	1241.680	6567460.56	1.2181	A	1.9
6	☐	2500.000	2464.093	13249279.58	2.4171	A	3.4
7	☐	5000.000	5020.630	26434303.83	4.9248	A	1.6
8	☐			12977.16	0.0029	P	20.8

$$y = 9.8088E-004 * x + 1.3418E-004$$

$$R = 1.0000$$

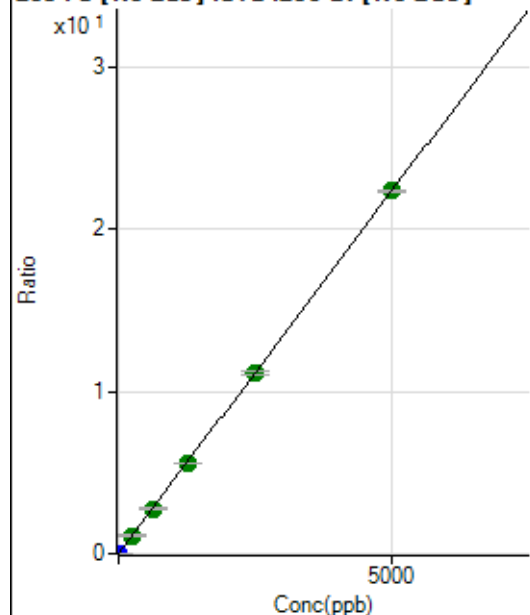
$$DL = 0.02532$$

$$BEC = 0.1368$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3020.57	0.0006	P	5.3
2	☐	1.000	0.966	25115.49	0.0049	P	2.9
3	☐	250.000	251.666	5805947.79	1.1234	A	1.0
4	☐	625.000	621.472	14965224.61	2.7733	A	2.1
5	☐	1250.000	1245.747	29970034.00	5.5586	A	1.6
6	☐	2500.000	2490.465	60922079.37	11.1120	A	2.3
7	☐	5000.000	5006.189	119890280.9	22.3361	A	0.8
8	☐			59436.46	0.0132	P	21.2

$$y = 0.0045 * x + 5.8925E-004$$

$$R = 1.0000$$

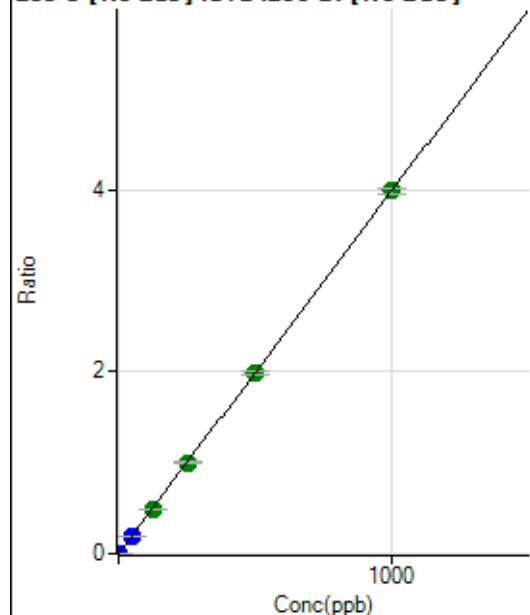
$$DL = 0.0212$$

$$BEC = 0.1321$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	101.0
2	☐	1.000	0.901	18416.63	0.0036	P	5.4
3	☐	50.000	48.905	1007097.74	0.1949	P	1.2
4	☐	125.000	122.256	2629492.48	0.4872	A	1.7
5	☐	250.000	251.011	5393588.62	1.0003	A	1.0
6	☐	500.000	497.840	10877950.33	1.9839	A	2.0
7	☐	1000.000	1001.225	21414159.85	3.9899	A	1.6
8	☐			2286.45	0.0005	P	67.3

$$y = 0.0040 * x + 3.2806E-006$$

$$R = 1.0000$$

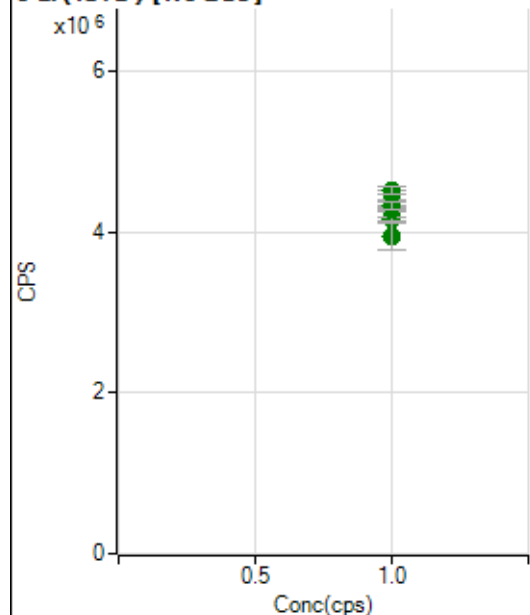
$$DL = 0.002495$$

$$BEC = 0.0008232$$

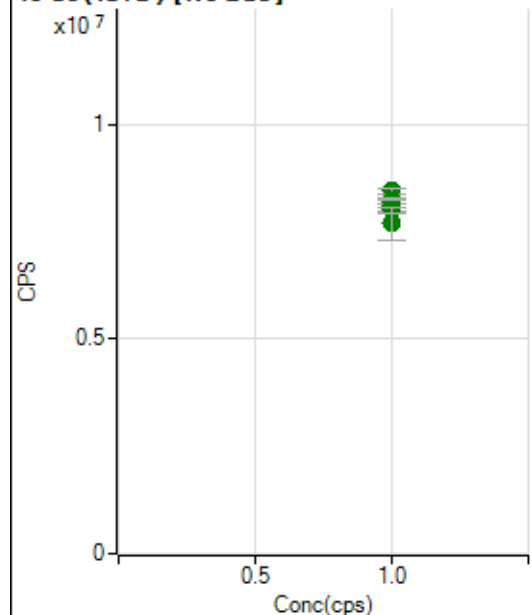
Weight: <None>

Min Conc: 0

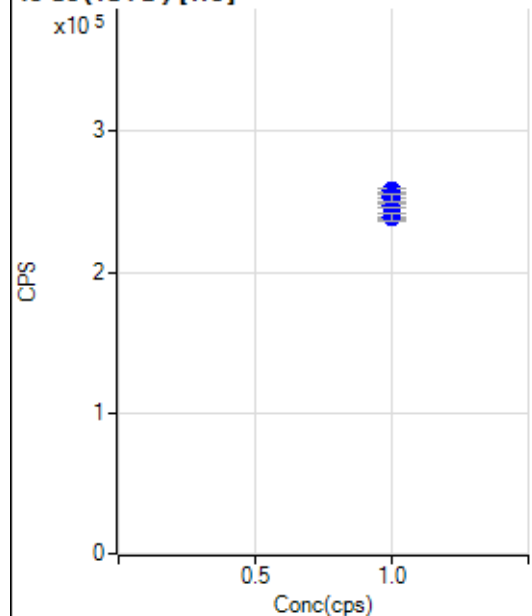
6 Li (ISTD) [No Gas]



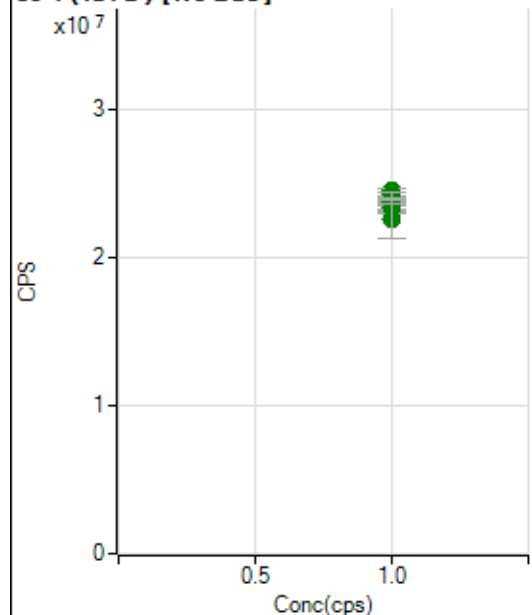
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4155457.29		A	1.1
2	☐	1.000		4284571.21		A	0.4
3	☐	1.000		4313106.70		A	0.8
4	☐	1.000		4470018.96		A	2.6
5	☐	1.000		4513234.24		A	2.3
6	☐	1.000		4271456.39		A	1.1
7	☐	1.000		4325480.88		A	1.9
8	☐	1.000		3939255.18		A	8.7

45 Sc (ISTD) [No Gas]

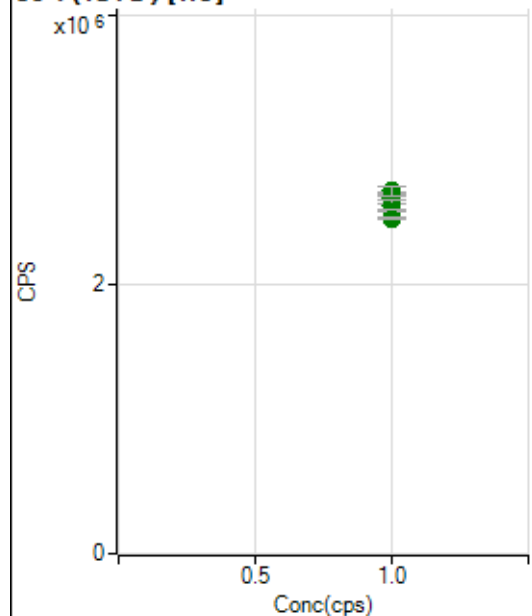
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8104081.68		A	3.5
2	☐	1.000		8082814.53		A	3.8
3	☐	1.000		8226399.04		A	1.3
4	☐	1.000		8459164.67		A	1.7
5	☐	1.000		8227503.07		A	2.0
6	☐	1.000		8030128.21		A	2.9
7	☐	1.000		8271543.91		A	0.5
8	☐	1.000		7706352.18		A	10.0

45 Sc (ISTD) [He]

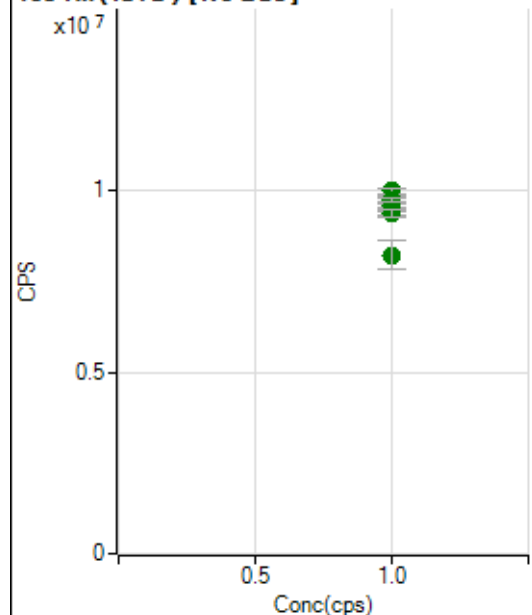
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		246271.05		P	3.2
2	☐	1.000		255112.31		P	1.7
3	☐	1.000		257742.52		P	1.3
4	☐	1.000		254274.68		P	1.1
5	☐	1.000		247593.39		P	0.9
6	☐	1.000		238870.49		P	0.7
7	☐	1.000		239229.99		P	2.3
8	☐	1.000		252703.20		P	1.7

89 Y (ISTD) [No Gas]

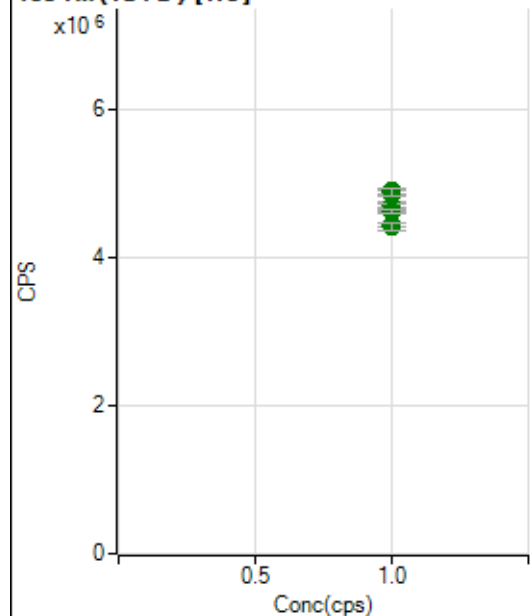
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		23445024.09		A	1.1
2	☐	1.000		23445632.43		A	2.5
3	☐	1.000		23838195.20		A	1.0
4	☐	1.000		24535055.47		A	1.0
5	☐	1.000		24152612.98		A	0.4
6	☐	1.000		23355097.16		A	2.6
7	☐	1.000		24267128.25		A	1.9
8	☐	1.000		22614427.72		A	11.2

89 Y (ISTD) [He]

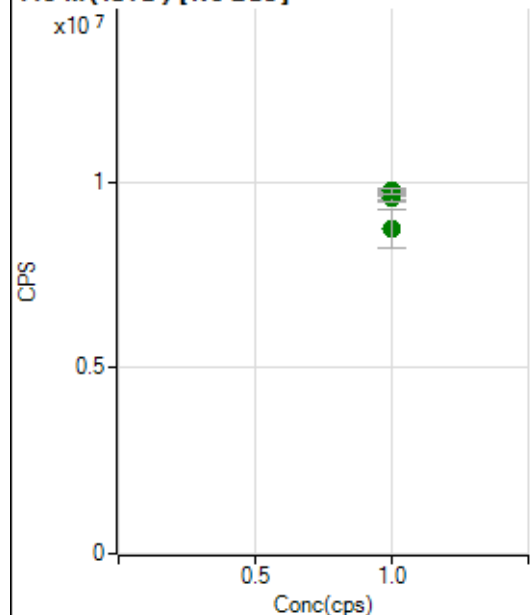
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2547642.79		A	3.7
2	☐	1.000		2646699.75		A	1.2
3	☐	1.000		2661465.07		A	0.9
4	☐	1.000		2671319.73		A	0.4
5	☐	1.000		2587782.69		A	2.7
6	☐	1.000		2542676.63		A	0.7
7	☐	1.000		2489053.12		A	0.3
8	☐	1.000		2692604.84		A	2.4

103 Rh (ISTD) [No Gas]

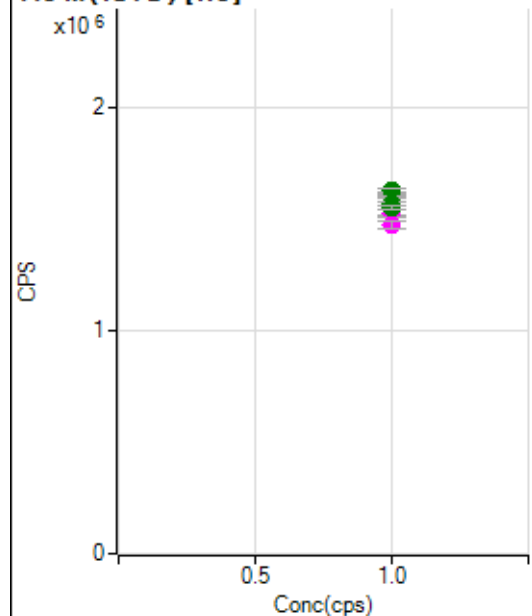
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9493706.81		A	1.1
2	☐	1.000		9575063.67		A	1.4
3	☐	1.000		9768579.91		A	1.5
4	☐	1.000		9998324.61		A	1.8
5	☐	1.000		9762977.39		A	1.1
6	☐	1.000		9361082.85		A	1.0
7	☐	1.000		9386630.59		A	1.9
8	☐	1.000		8231175.88		A	9.6

103 Rh (ISTD) [He]

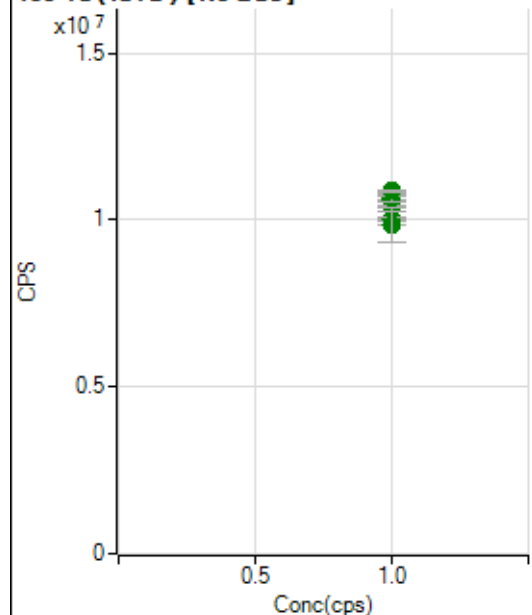
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4682834.62		A	2.7
2	☐	1.000		4863451.94		A	1.5
3	☐	1.000		4895108.71		A	1.5
4	☐	1.000		4876100.62		A	2.2
5	☐	1.000		4705979.13		A	1.1
6	☐	1.000		4609719.59		A	1.0
7	☐	1.000		4448571.32		A	1.2
8	☐	1.000		4413542.33		A	2.5

115 In (ISTD) [No Gas]

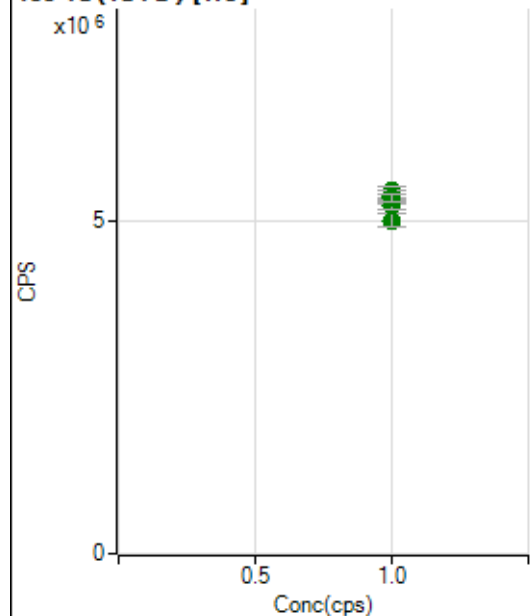
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9637502.21		A	2.5
2	☐	1.000		9550289.85		A	2.1
3	☐	1.000		9719275.29		A	0.9
4	☐	1.000		9685419.08		A	1.5
5	☐	1.000		9722755.05		A	1.6
6	☐	1.000		9586016.93		A	2.2
7	☐	1.000		9751388.58		A	1.2
8	☐	1.000		8740403.51		A	11.4

115 In (ISTD) [He]

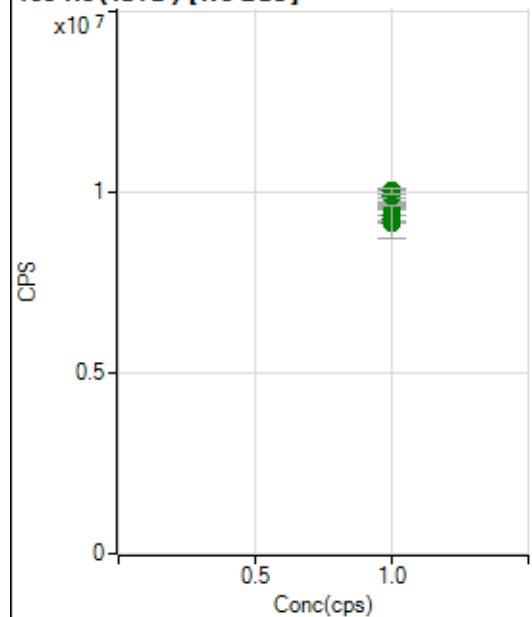
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1554660.54		A	5.1
2	☐	1.000		1609458.32		A	1.8
3	☐	1.000		1627599.29		A	1.9
4	☐	1.000		1599269.02		A	0.5
5	☐	1.000		1568680.55		A	1.5
6	☐	1.000		1526957.22		M	2.0
7	☐	1.000		1474361.64		M	2.2
8	☐	1.000		1551374.52		A	1.1

159 Tb (ISTD) [No Gas]

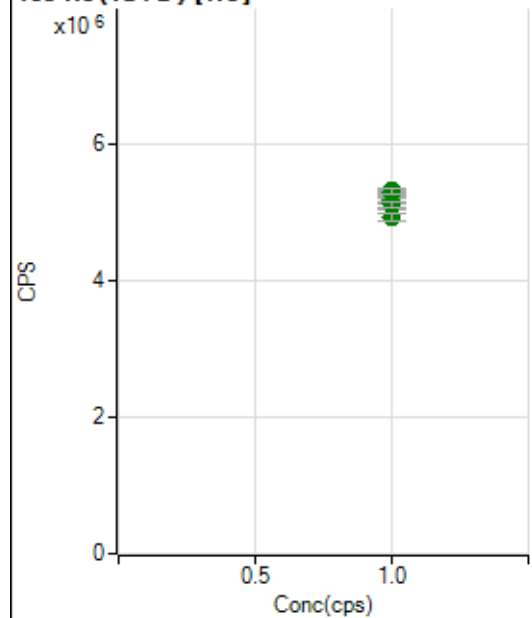
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9940290.82		A	1.4
2	☐	1.000		10038006.65		A	1.5
3	☐	1.000		10426077.55		A	3.7
4	☐	1.000		10751555.40		A	2.5
5	☐	1.000		10580016.16		A	3.3
6	☐	1.000		10650285.53		A	1.6
7	☐	1.000		10869918.03		A	0.4
8	☐	1.000		9834475.76		A	10.6

159 Tb (ISTD) [He]

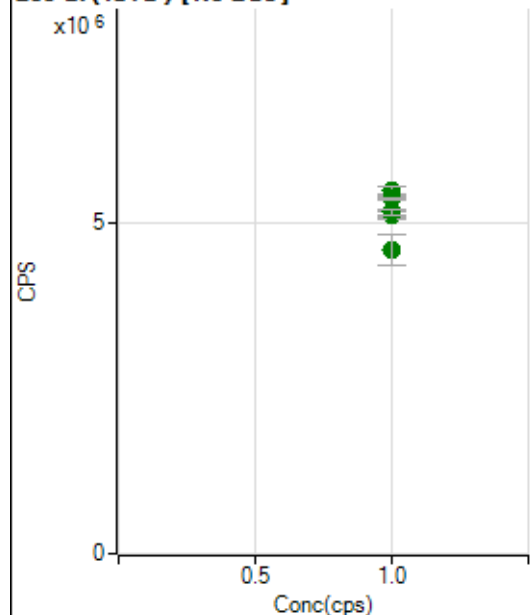
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4998269.16		A	4.0
2	☐	1.000		5277782.45		A	0.3
3	☐	1.000		5449501.52		A	2.1
4	☐	1.000		5380996.27		A	2.7
5	☐	1.000		5326116.90		A	0.9
6	☐	1.000		5252423.04		A	0.2
7	☐	1.000		5227568.43		A	2.1
8	☐	1.000		5350478.63		A	2.2

165 Ho (ISTD) [No Gas]

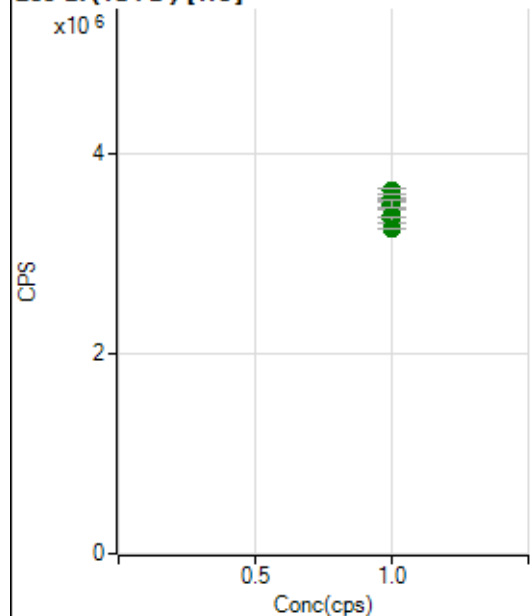
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9245808.02		A	2.8
2	☐	1.000		9366875.82		A	3.6
3	☐	1.000		9613671.83		A	0.4
4	☐	1.000		9662888.93		A	0.4
5	☐	1.000		9865556.91		A	3.2
6	☐	1.000		9905536.85		A	1.1
7	☐	1.000		10029534.86		A	1.3
8	☐	1.000		9165926.24		A	9.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4932208.89		A	2.0
2	☐	1.000		5138493.71		A	3.2
3	☐	1.000		5323419.09		A	0.4
4	☐	1.000		5192689.44		A	1.8
5	☐	1.000		5233690.16		A	0.5
6	☐	1.000		5201358.71		A	1.2
7	☐	1.000		5122940.55		A	2.0
8	☐	1.000		5313844.67		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5123893.26		A	1.6
2	☐	1.000		5128355.96		A	2.6
3	☐	1.000		5168279.12		A	1.8
4	☐	1.000		5396781.69		A	1.2
5	☐	1.000		5391869.36		A	0.6
6	☐	1.000		5484823.67		A	2.7
7	☐	1.000		5367334.43		A	0.8
8	☐	1.000		4583947.33		A	9.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3371718.21		A	4.2
2	☐	1.000		3475124.15		A	2.3
3	☐	1.000		3621047.55		A	1.9
4	☐	1.000		3536117.76		A	0.5
5	☐	1.000		3549265.26		A	2.1
6	☐	1.000		3493173.25		A	2.0
7	☐	1.000		3331513.59		A	1.8
8	☐	1.000		3241189.43		A	0.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8101721MS.b
Acq. Date-Time 2021-10-17 09:09:59
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		15355	153552.58			0.456	5.000
24		129611	1296111.22			1.003	5.000
25		17946	179459.13			1.161	5.000
26		20833	208331.22			1.087	5.000
59		37506	375057.66			1.092	5.000
113		14245	142453.54			1.242	5.000
115		45665	456652.48			1.908	5.000
206		14199	141991.28			1.613	5.000
207		11848	118479.80			1.709	5.000
208		29308	293080.15			1.343	5.000
220		1	7.90			22.555	

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

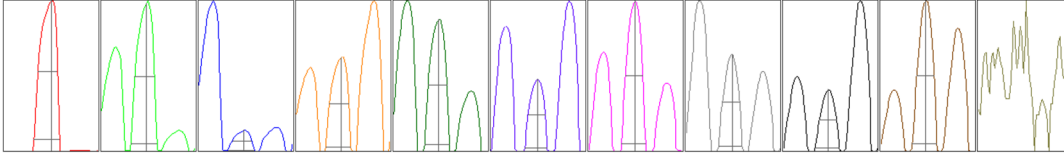
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	15299	15291	15425	15325	15436
24	130909	128151	130805	128391	129799
25	17714	18032	18256	17828	17900
26	20575	20967	21146	20688	20790
59	37178	37661	38063	37035	37592
113	14013	14267	14481	14146	14319
115	45626	46728	46315	44627	45030
206	13898	14127	14273	14171	14527
207	11569	11810	11996	11776	12089
208	28722	29188	29589	29306	29735

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	25558.56	9.05	8.90 - 9.10	
24	220577.66	23.95	23.90 - 24.10	
25	30364.67	24.95	24.90 - 25.10	
26	34274.07	25.95	25.90 - 26.10	
59	66175.47	58.95	58.90 - 59.10	
113	27633.67	113.00	112.90 - 113.10	
115	87914.59	115.00	114.90 - 115.10	
206	27392.67	206.00	205.90 - 206.10	
207	22793.01	206.95	206.90 - 207.10	
208	55615.73	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.809	0.900	
24	0.63	0.826	0.900	
25	0.63	0.831	0.900	
26	0.63	0.787	0.900	
59	0.60	0.786	0.900	
113	0.54	0.697	0.900	
115	0.54	0.768	0.900	
206	0.54	0.745	0.900	
207	0.54	0.776	0.900	
208	0.55	0.777	0.900	
220	0.72			

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	8.5 V	Deflect	15.2 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 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	124	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.8 mm
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EM

Discriminator	3.8 mV	Analog HV	2261 V	Pulse HV	1551 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8409	84093.33			0.847	
89		23713	237129.84			1.012	
205		15475	154754.13			1.228	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8478	8449	8303	8372	8446
89	23973	23939	23482	23472	23699
205	15643	15699	15296	15446	15293

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	8.5 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 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	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.8 mm	Torch V	-0.8 mm		
EM					
Discriminator	3.8 mV	Analog HV	2261 V	Pulse HV	1551 V