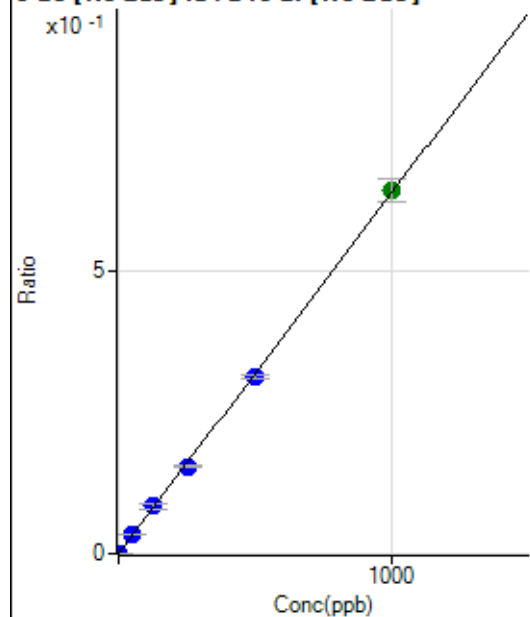


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072623 MS.b\
 Analysis File: P8072623 MS.batch.bin
 DA Date-Time: 2023-07-27 11:05:54
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-07-26 11:33:25
2	006CALS.d	S02	2023-07-26 11:39:38
3	007CALS.d	S03	2023-07-26 11:42:43
4	008CALS.d	S04	2023-07-26 11:45:47
5	009CALS.d	S05	2023-07-26 11:48:46
6	011CALS.d	S06	2023-07-26 11:54:44
7	012CALS.d	S07	2023-07-26 11:57:46
8	013CALS.d	S08	2023-07-26 12:00:44

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.58	0.0000	P	13.6
2	☐	1.000	1.019	1230.73	0.0007	P	6.4
3	☐	50.000	51.696	59658.05	0.0330	P	1.8
4	☐	125.000	130.761	147018.83	0.0836	P	9.3
5	☐	250.000	240.922	286611.15	0.1539	P	2.3
6	☐	500.000	489.848	563937.88	0.3130	P	1.9
7	☐	1000.000	1006.541	1108094.87	0.6431	A	6.3
8	☐			117.07	0.0001	P	9.3

$$y = 6.3890E-004 * x + 1.9061E-005$$

$$R = 0.9998$$

$$DL = 0.01217$$

$$BEC = 0.02983$$

Weight: <None>

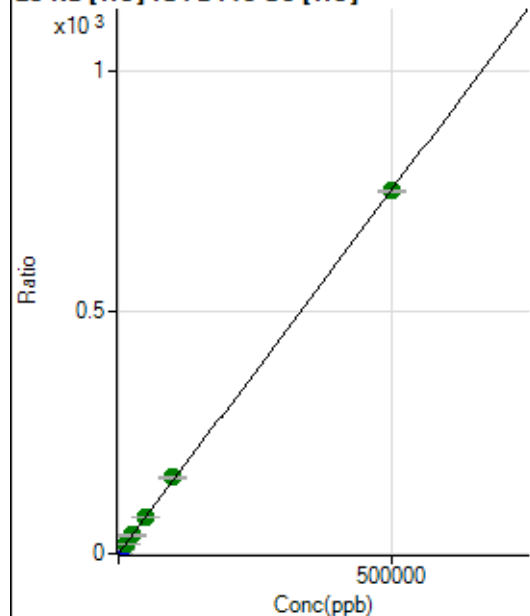
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2470911.86		A	0.2
2	☐			2521268.48		A	1.3
3	☐			2324920.54		A	2.5
4	☐			2205644.86		A	1.5
5	☐			2222656.36		A	1.3
6	☐			2348119.50		A	2.2
7	☐			2320807.30		A	1.0
8	☐			2265705.71		A	3.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32561.62		P	0.6
2	☐			36078.31		P	3.0
3	☐			31467.68		P	2.7
4	☐			30373.68		P	2.2
5	☐			31075.14		P	1.5
6	☐			33104.65		P	1.7
7	☐			32519.96		P	1.1
8	☐			35794.22		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21950.34	0.1799	P	2.7
2	☐	500.000	465.690	109375.12	0.8810	P	2.0
3	☐	5000.000	5330.847	1000793.38	8.2058	P	1.2
4	☐	12500.000	12906.739	2365955.15	19.6119	A	0.2
5	☐	25000.000	25175.794	4584843.55	38.0839	A	2.5
6	☐	50000.000	50728.903	8938841.87	76.5559	A	1.4
7	☐	100000.00	104440.03	17823429.74	157.4220	A	1.4
8	☐	500000.00	499016.87	87138509.59	751.4862	A	0.5

$$y = 0.0015 * x + 0.1799$$

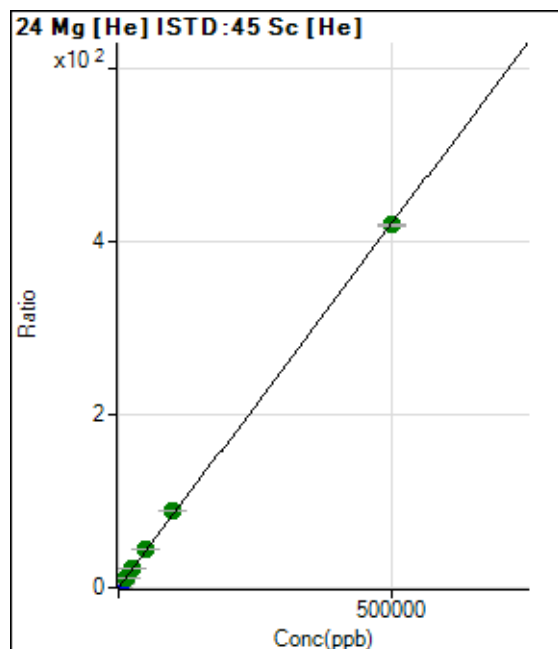
$$R = 1.0000$$

$$DL = 9.8$$

$$BEC = 119.5$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	119.45	0.0010	P	26.4
2	☐	500.000	471.910	49470.83	0.3985	P	0.1
3	☐	5000.000	5401.224	554994.94	4.5504	P	0.5
4	☐	12500.000	13044.869	1325498.44	10.9885	A	2.2
5	☐	25000.000	25952.950	2632080.42	21.8608	A	1.0
6	☐	50000.000	51813.967	5095914.44	43.6431	A	1.1
7	☐	100000.00	105776.37	10086707.43	89.0949	A	2.3
8	☐	500000.00	498598.07	48696316.02	419.9630	A	0.4

$$y = 8.4229\text{E-}004 * x + 9.7848\text{E-}004$$

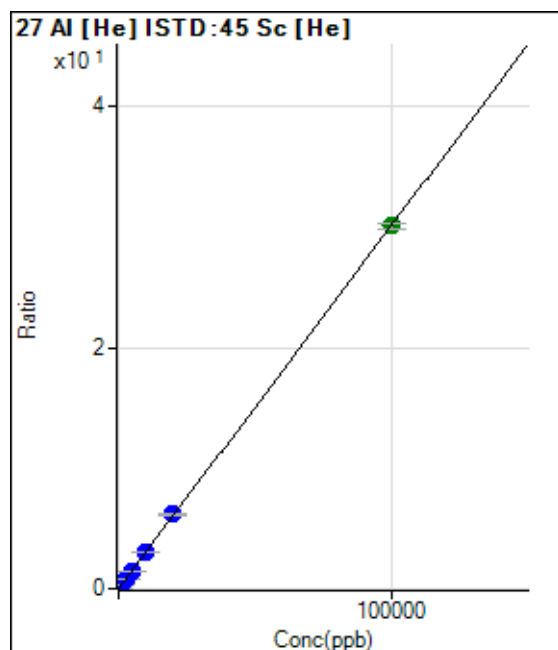
$$R = 0.9999$$

$$DL = 0.9202$$

$$BEC = 1.162$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.49	0.0006	P	15.0
2	☐	20.000	19.557	804.93	0.0065	P	4.2
3	☐	1000.000	1288.481	47386.90	0.3885	P	1.3
4	☐	2500.000	2513.293	91360.22	0.7573	P	0.8
5	☐	5000.000	4915.548	178264.98	1.4806	P	0.9
6	☐	10000.000	10070.002	354078.38	3.0326	P	1.9
7	☐	20000.000	20491.108	698530.13	6.1703	P	2.6
8	☐	100000.00	99895.784	3487756.41	30.0783	A	1.4

$$y = 3.0109\text{E-}004 * x + 5.9444\text{E-}004$$

$$R = 1.0000$$

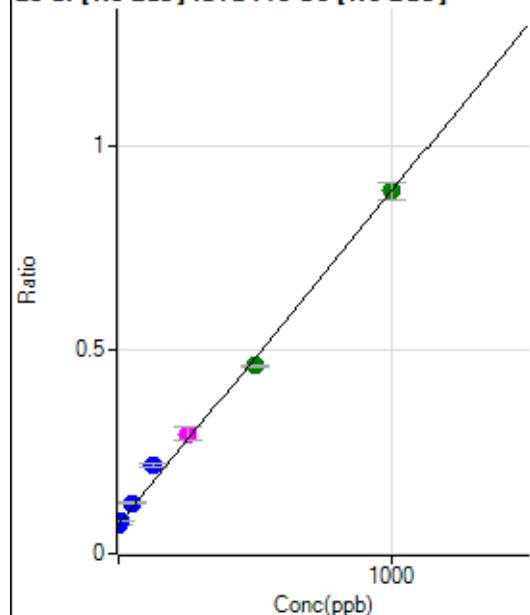
$$DL = 0.8881$$

$$BEC = 1.974$$

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	227928.86	0.0720	P	1.1
2	☐	10.000	11.030	255454.26	0.0810	P	1.7
3	☐	50.000	64.236	403327.02	0.1245	P	2.0
4	☐	125.000	176.295	654938.78	0.2161	P	5.7
5	☐	250.000	270.671	923957.94	0.2932	M	11.2
6	☐	500.000	474.706	1446349.91	0.4599	A	0.7
7	☐	1000.000	1000.345	2617738.45	0.8895	A	4.5
8	☐			476161.69	0.1686	P	5.1

$$y = 8.1729\text{E-}004 * x + 0.0720$$

$$R = 0.9981$$

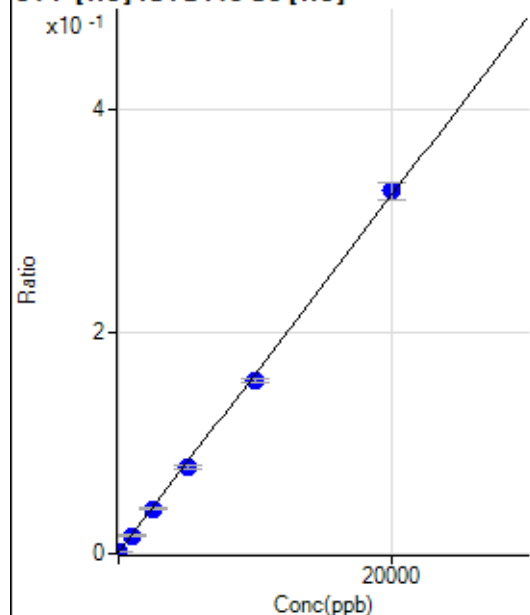
$$DL = 3.001$$

$$BEC = 88.06$$

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	-12.703	125.00	0.0010	P	17.7
2	☐	0.000	12.703	177.78	0.0014	P	11.5
3	☐	1000.000	930.160	1972.41	0.0162	P	13.5
4	☐	2500.000	2431.948	4864.84	0.0403	P	2.9
5	☐	5000.000	4734.102	9311.57	0.0773	P	5.1
6	☐	10000.000	9661.312	18281.38	0.1566	P	2.4
7	☐	20000.000	20247.817	36989.37	0.3268	P	4.6
8	☐			102.78	0.0009	P	38.7

$$y = 1.6079\text{E-}005 * x + 0.0012$$

$$R = 0.9997$$

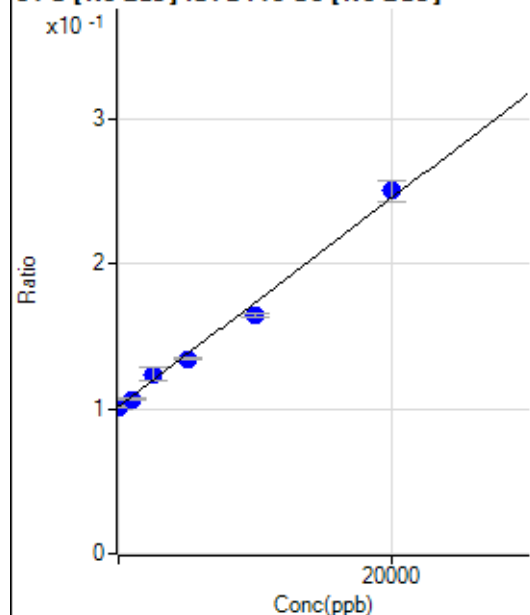
$$DL = 32.19$$

$$BEC = 76.39$$

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	-64.370	319967.45	0.1010	P	1.9
2	☐	0.000	64.370	321648.89	0.1020	P	1.2
3	☐	1000.000	705.246	345339.05	0.1066	P	1.6
4	☐	2500.000	3084.054	374593.70	0.1237	P	7.5
5	☐	5000.000	4572.596	423712.07	0.1344	P	0.8
6	☐	10000.000	8761.281	517297.80	0.1645	P	1.6
7	☐	20000.000	20667.942	735911.87	0.2502	P	5.7
8	☐			288208.22	0.1022	P	4.2

$$y = 7.1938\text{E-}006 * x + 0.1015$$

$$R = 0.9962$$

$$DL = 656.5$$

$$BEC = 1.411\text{E}+04$$

Weight: <None>

Min Conc: 0

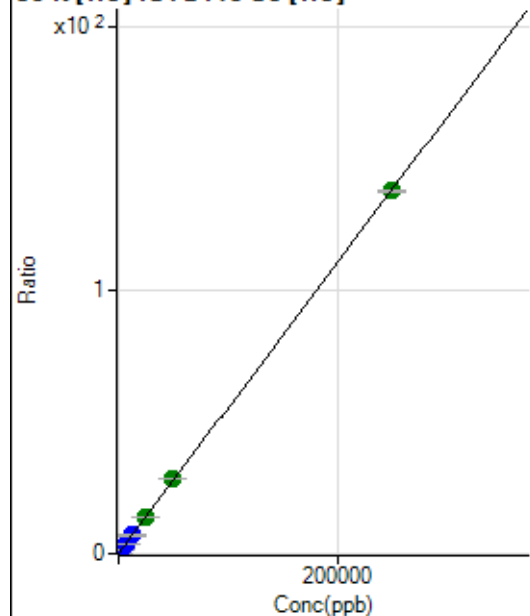
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96666.71		P	1.8
2	☐			94206.04		P	0.6
3	☐			105189.20		P	1.1
4	☐			102508.87		P	0.6
5	☐			102648.90		P	0.3
6	☐			100665.32		P	0.7
7	☐			105564.71		P	2.0
8	☐			112975.37		P	2.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			744.48		P	3.6
2	☐			688.93		P	10.6
3	☐			969.50		P	7.0
4	☐			808.38		P	3.6
5	☐			816.71		P	12.4
6	☐			752.82		P	11.3
7	☐			780.59		P	10.1
8	☐			1027.84		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11721.73	0.0960	P	3.0
2	☐	500.000	450.525	42747.40	0.3443	P	2.3
3	☐	2500.000	2565.520	184140.83	1.5096	P	1.4
4	☐	6250.000	6300.206	430353.19	3.5673	P	0.6
5	☐	12500.000	12419.294	835435.97	6.9388	P	0.9
6	☐	25000.000	25408.672	1645843.56	14.0957	A	1.3
7	☐	50000.000	51427.713	3219253.11	28.4317	A	1.2
8	☐	250000.00	249675.81	15962037.16	137.6625	A	0.8

$$y = 5.5098\text{E-}004 * x + 0.0960$$

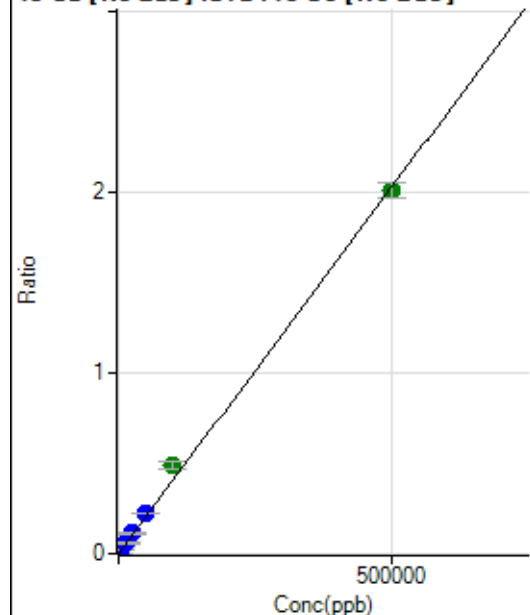
$$R = 1.0000$$

$$DL = 15.73$$

$$BEC = 174.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	208.31	0.0001	P	12.1
2	☐	500.000	447.541	5918.41	0.0019	P	2.2
3	☐	5000.000	5537.917	72808.30	0.0225	P	2.1
4	☐	12500.000	14633.680	179461.59	0.0593	P	7.9
5	☐	25000.000	27642.851	352774.30	0.1119	P	0.8
6	☐	50000.000	54663.031	695562.61	0.2212	P	1.0
7	☐	100000.00	120487.39	1433258.26	0.4875	A	7.1
8	☐	500000.00	495245.40	5652277.07	2.0036	A	4.1

$$y = 4.0456\text{E-}006 * x + 6.5786\text{E-}005$$

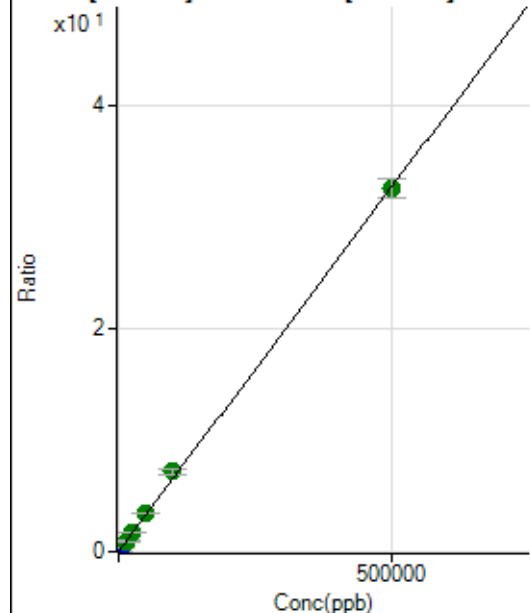
$$R = 0.9991$$

$$DL = 5.905$$

$$BEC = 16.26$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55301.36	0.0175	P	2.2
2	☐	500.000	435.023	144810.47	0.0459	P	1.1
3	☐	5000.000	5297.004	1178855.50	0.3638	P	1.1
4	☐	12500.000	14037.970	2831166.99	0.9353	A	8.6
5	☐	25000.000	26009.256	5415891.72	1.7180	A	1.6
6	☐	50000.000	52306.921	10808100.78	3.4374	A	1.9
7	☐	100000.00	109514.31	21106752.31	7.1777	A	6.5
8	☐	500000.00	497774.62	91819921.82	32.5629	A	5.2

$$y = 6.5382\text{E-}005 * x + 0.0175$$

$$R = 0.9998$$

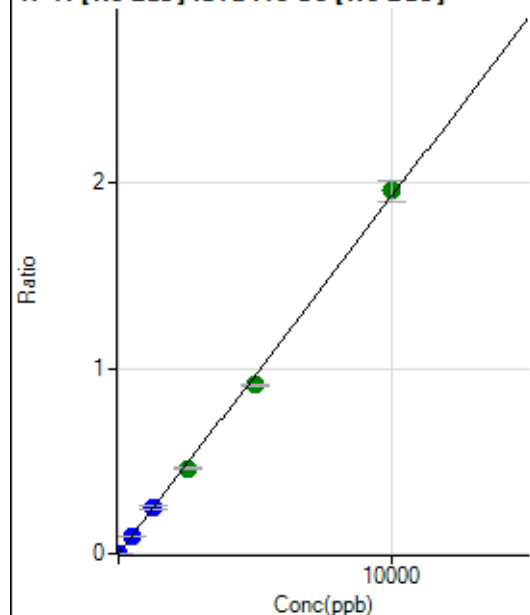
$$DL = 17.35$$

$$BEC = 267.1$$

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	102.78	0.0000	P	10.6
2	☐	5.000	4.611	2908.71	0.0009	P	7.3
3	☐	500.000	484.656	303142.40	0.0935	P	2.1
4	☐	1250.000	1293.088	755274.94	0.2495	P	8.8
5	☐	2500.000	2393.911	1456385.68	0.4619	A	1.4
6	☐	5000.000	4727.214	2868139.58	0.9122	A	1.1
7	☐	10000.000	10158.297	5764765.97	1.9601	A	6.1
8	☐			1170.58	0.0004	P	94.4

$$y = 1.9296\text{E-}004 * x + 3.2482\text{E-}005$$

$$R = 0.9994$$

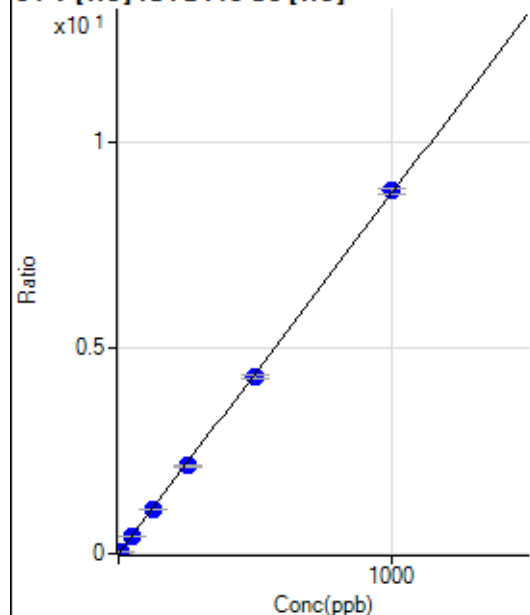
$$DL = 0.05343$$

$$BEC = 0.1683$$

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	17.78	0.0001	P	22.4
2	☐	5.000	4.437	4837.53	0.0390	P	4.4
3	☐	50.000	49.960	53330.08	0.4372	P	0.4
4	☐	125.000	121.215	127951.16	1.0606	P	1.0
5	☐	250.000	243.034	256013.13	2.1264	P	1.4
6	☐	500.000	490.598	501163.16	4.2923	P	2.0
7	☐	1000.000	1006.920	997452.43	8.8095	P	1.5
8	☐			795.35	0.0069	P	113.4

$$y = 0.0087 * x + 1.4583\text{E-}004$$

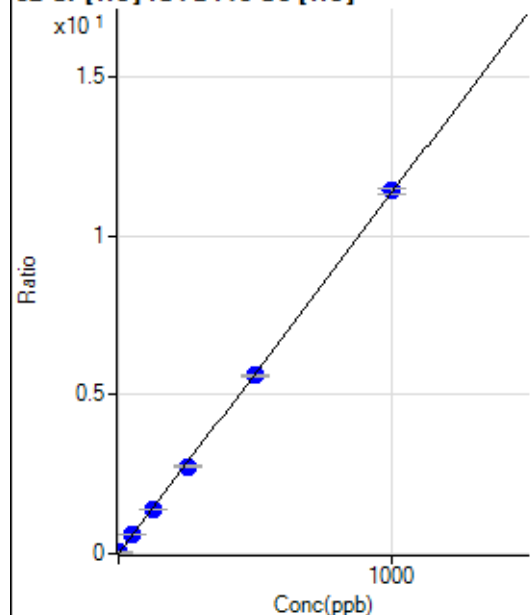
$$R = 0.9999$$

$$DL = 0.01122$$

$$BEC = 0.01667$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	963.38	0.0079	P	6.7
2	☐	2.000	1.993	3788.32	0.0305	P	2.2
3	☐	50.000	50.435	70793.95	0.5804	P	0.8
4	☐	125.000	123.514	170101.35	1.4100	P	1.1
5	☐	250.000	241.443	330979.89	2.7488	P	1.1
6	☐	500.000	493.309	654810.95	5.6080	P	0.6
7	☐	1000.000	1005.649	1293485.93	11.4242	P	1.3
8	☐			8913.20	0.0769	P	15.5

$$y = 0.0114 * x + 0.0079$$

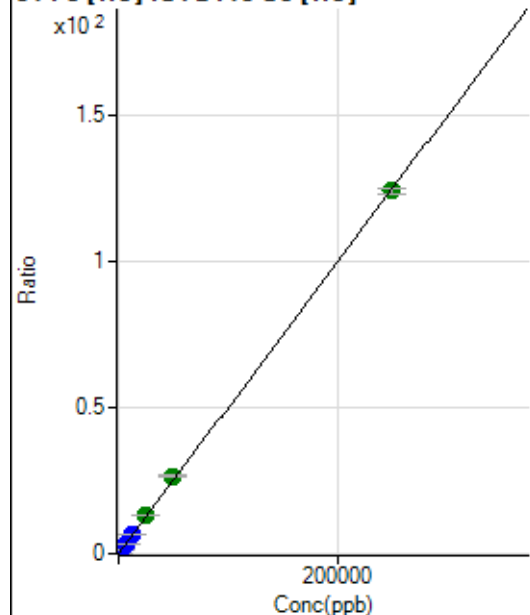
$$R = 0.9999$$

$$DL = 0.1391$$

$$BEC = 0.6955$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	542.61	0.0044	P	6.5
2	☐	50.000	49.482	3609.77	0.0291	P	3.3
3	☐	2500.000	2662.459	162164.84	1.3296	P	0.7
4	☐	6250.000	6432.922	386784.64	3.2062	P	1.2
5	☐	12500.000	12758.744	765141.00	6.3547	P	0.6
6	☐	25000.000	26387.090	1534006.25	13.1377	A	0.8
7	☐	50000.000	53084.546	2991861.06	26.4255	A	1.6
8	☐	250000.00	249225.24	14383196.73	124.0480	A	1.3

$$y = 4.9772E-004 * x + 0.0044$$

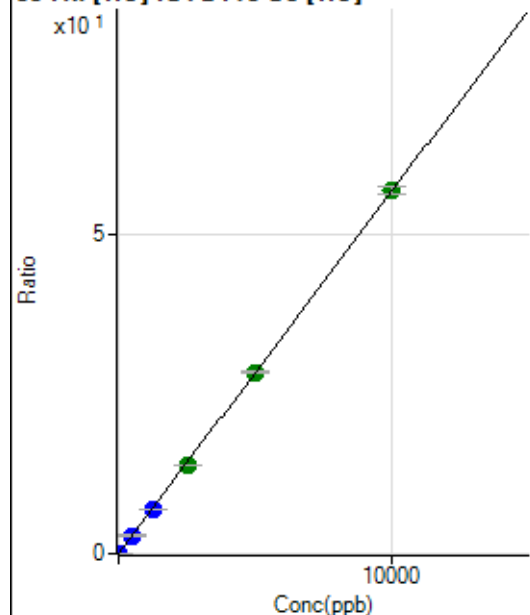
$$R = 0.9999$$

$$DL = 1.729$$

$$BEC = 8.928$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.00	0.0018	P	6.7
2	☐	1.000	1.014	937.82	0.0076	P	4.9
3	☐	500.000	502.554	347840.04	2.8519	P	1.1
4	☐	1250.000	1220.830	835451.99	6.9254	P	0.6
5	☐	2500.000	2447.949	1671823.88	13.8846	A	1.2
6	☐	5000.000	4997.401	3309397.62	28.3431	A	1.0
7	☐	10000.000	10017.831	6432585.95	56.8149	A	2.0
8	☐			8062.07	0.0696	P	65.5

$$y = 0.0057 * x + 0.0018$$

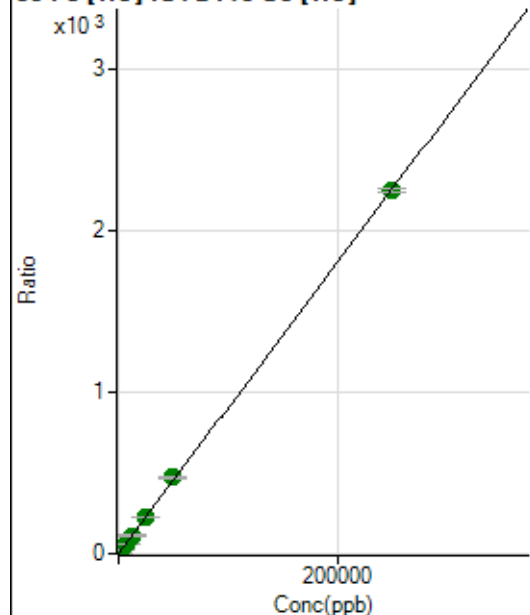
$$R = 1.0000$$

$$DL = 0.0641$$

$$BEC = 0.3179$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4337.77	0.0355	P	4.3
2	☐	50.000	48.077	58122.04	0.4681	P	0.2
3	☐	2500.000	2665.537	2929589.01	24.0197	A	0.9
4	☐	6250.000	6384.006	6933997.55	57.4780	A	1.0
5	☐	12500.000	12533.669	13581761.99	112.8118	A	2.6
6	☐	25000.000	25638.924	26941915.88	230.7311	A	0.8
7	☐	50000.000	52429.832	53419115.55	471.7920	A	1.0
8	☐	250000.00	249443.45	260245620.6	2,244.493	A	1.0

$$y = 0.0090 * x + 0.0355$$

$$R = 0.9999$$

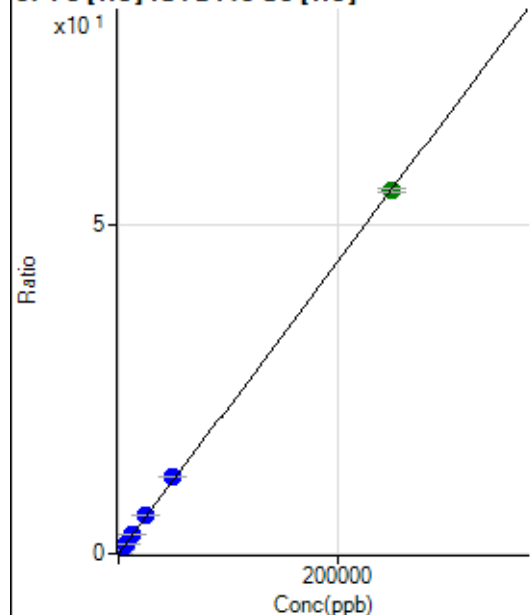
$$DL = 0.5042$$

$$BEC = 3.951$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	135.19	0.0011	P	21.0
2	☐	50.000	54.137	1626.05	0.0131	P	6.6
3	☐	2500.000	2677.958	72448.18	0.5940	P	1.8
4	☐	6250.000	6454.185	172524.02	1.4302	P	1.1
5	☐	12500.000	12738.436	339712.04	2.8216	P	1.8
6	☐	25000.000	26015.257	672720.00	5.7613	P	0.1
7	☐	50000.000	52832.504	1324637.08	11.6990	P	0.8
8	☐	250000.00	249313.16	6401019.30	55.2028	A	1.0

$$y = 2.2141\text{E-}004 * x + 0.0011$$

R = 0.9999

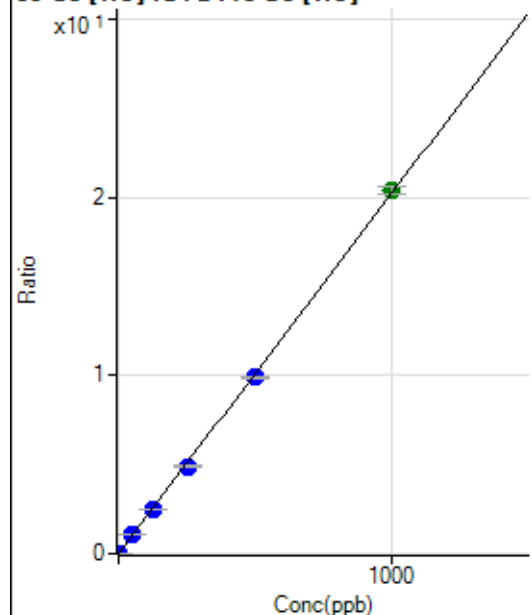
DL = 3.149

BEC = 5.006

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	177.78	0.0015	P	14.7
2	☐	1.000	0.900	2436.90	0.0196	P	3.0
3	☐	50.000	50.984	125792.67	1.0313	P	0.4
4	☐	125.000	123.852	301981.74	2.5033	P	0.8
5	☐	250.000	242.660	590387.52	4.9032	P	0.9
6	☐	500.000	489.327	1154334.70	9.8859	P	0.6
7	☐	1000.000	1007.266	2303716.20	20.3483	A	2.1
8	☐			6152.84	0.0531	P	22.2

$$y = 0.0202 * x + 0.0015$$

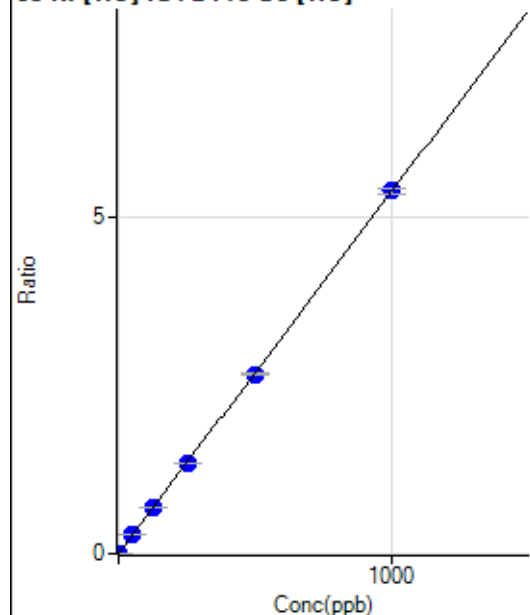
R = 0.9999

DL = 0.03181

BEC = 0.07217

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	144.45	0.0012	P	12.0
2	☐	1.000	1.029	834.48	0.0067	P	4.1
3	☐	50.000	52.620	34678.90	0.2843	P	0.9
4	☐	125.000	126.031	81945.43	0.6793	P	1.7
5	☐	250.000	247.807	160690.16	1.3346	P	0.5
6	☐	500.000	496.407	312000.08	2.6722	P	2.0
7	☐	1000.000	1002.085	610586.80	5.3931	P	1.9
8	☐			3374.94	0.0291	P	7.7

$$y = 0.0054 * x + 0.0012$$

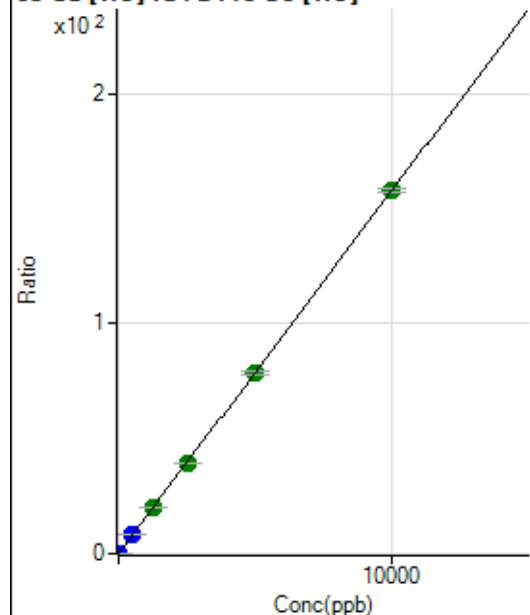
$$R = 1.0000$$

$$DL = 0.0791$$

$$BEC = 0.2198$$

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	637.80	0.0052	P	6.0
2	☐	2.000	1.923	4414.07	0.0356	P	2.8
3	☐	500.000	524.652	1009900.65	8.2796	P	0.8
4	☐	1250.000	1275.162	2426495.78	20.1161	A	2.5
5	☐	2500.000	2499.915	4747776.49	39.4320	A	1.1
6	☐	5000.000	4984.930	9180029.93	78.6238	A	1.6
7	☐	10000.000	10003.178	17863628.35	157.7679	A	1.0
8	☐			12202.68	0.1053	P	49.8

$$y = 0.0158 * x + 0.0052$$

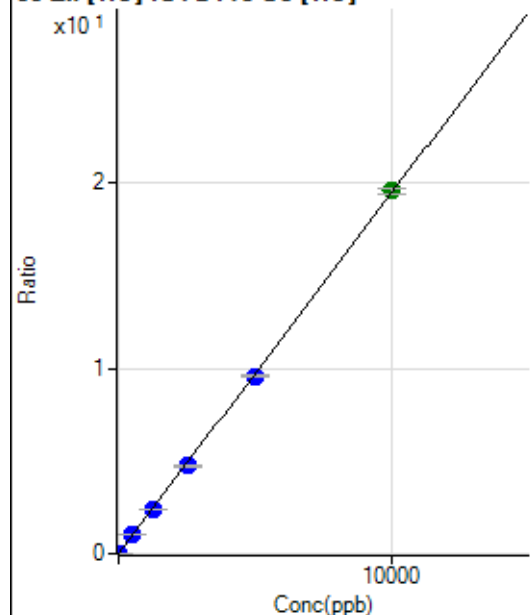
$$R = 1.0000$$

$$DL = 0.06009$$

$$BEC = 0.3313$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	110.00	0.0009	P	0.9
2	☐	2.000	2.233	651.14	0.0052	P	11.0
3	☐	500.000	516.453	122621.94	1.0053	P	0.3
4	☐	1250.000	1244.308	292047.06	2.4209	P	1.0
5	☐	2500.000	2428.786	568866.40	4.7246	P	0.4
6	☐	5000.000	4922.114	1117835.79	9.5739	P	1.4
7	☐	10000.000	10056.635	2214604.46	19.5599	A	1.3
8	☐			5839.30	0.0504	P	7.1

$$y = 0.0019 * x + 9.0123E-004$$

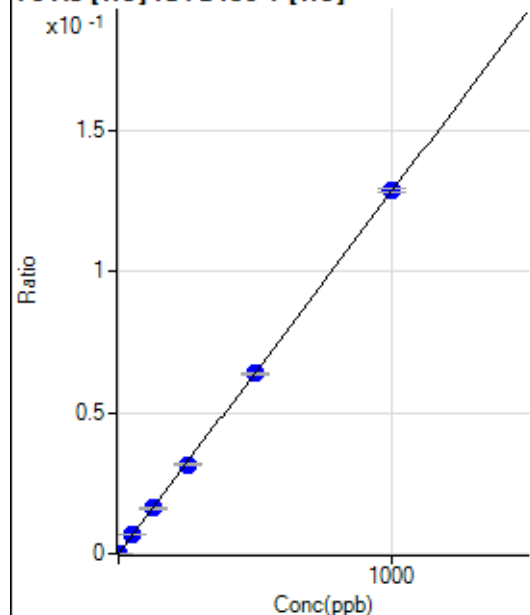
$$R = 0.9999$$

$$DL = 0.01309$$

$$BEC = 0.4634$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.33	0.0000	P	72.9
2	☐	1.000	0.863	119.01	0.0001	P	6.4
3	☐	50.000	50.724	6484.14	0.0065	P	0.8
4	☐	125.000	124.956	15823.08	0.0160	P	1.0
5	☐	250.000	246.332	30991.90	0.0316	P	1.4
6	☐	500.000	497.018	61295.36	0.0638	P	1.4
7	☐	1000.000	1002.378	120078.76	0.1287	P	0.9
8	☐			59.34	0.0001	P	42.5

$$y = 1.2841E-004 * x + 4.3929E-006$$

$$R = 1.0000$$

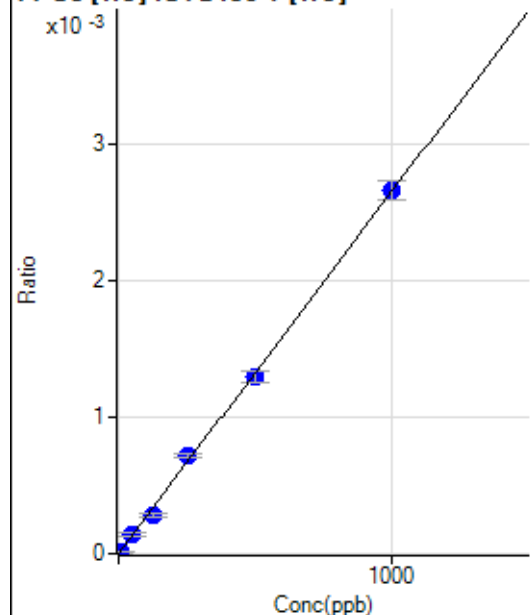
$$DL = 0.07485$$

$$BEC = 0.03421$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	3.618	11.11	0.0000	P	44.3
3	☐	50.000	54.057	143.34	0.0001	P	15.7
4	☐	125.000	107.373	281.12	0.0003	P	11.8
5	☐	250.000	269.906	700.03	0.0007	P	3.8
6	☐	500.000	488.121	1240.07	0.0013	P	6.2
7	☐	1000.000	1002.971	2474.69	0.0027	P	5.5
8	☐			22.22	0.0000	P	37.7

$$y = 2.6432\text{E-}006 * x + 1.1478\text{E-}006$$

$$R = 0.9995$$

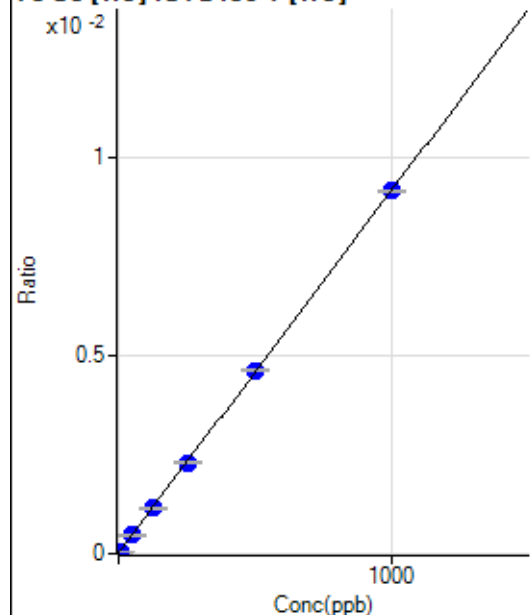
$$DL = 2.256$$

$$BEC = 0.4342$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.67	0.0000	P	30.8
2	☐	5.000	3.976	57.34	0.0001	P	14.1
3	☐	50.000	49.445	470.06	0.0005	P	5.6
4	☐	125.000	124.138	1140.83	0.0012	P	3.3
5	☐	250.000	249.108	2256.08	0.0023	P	2.5
6	☐	500.000	502.530	4443.49	0.0046	P	0.9
7	☐	1000.000	999.099	8563.47	0.0092	P	0.7
8	☐			57.34	0.0001	P	20.3

$$y = 9.1688\text{E-}006 * x + 1.9063\text{E-}005$$

$$R = 1.0000$$

$$DL = 1.919$$

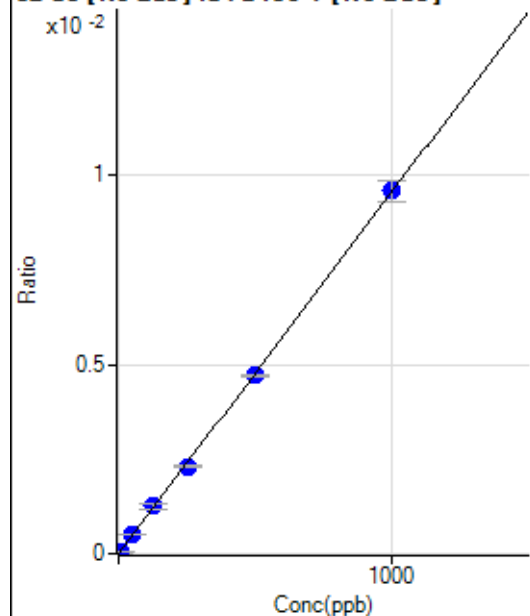
$$BEC = 2.079$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2953.18		P	3.9
2	☐			3000.39		P	6.0
3	☐			2711.45		P	1.8
4	☐			2675.32		P	5.6
5	☐			2722.57		P	5.7
6	☐			2522.52		P	2.2
7	☐			2572.53		P	3.6
8	☐			3592.22		P	4.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-20.41	0.0000	P	-148.
2	☐	5.000	4.806	362.05	0.0000	P	6.0
3	☐	50.000	51.596	4031.40	0.0005	P	2.1
4	☐	125.000	131.907	9943.29	0.0013	P	12.3
5	☐	250.000	241.382	19751.31	0.0023	P	1.0
6	☐	500.000	493.971	38589.77	0.0047	P	1.3
7	☐	1000.000	1004.227	75299.49	0.0096	P	5.6
8	☐			393.71	0.0001	P	11.2

$$y = 9.5524E-006 * x - 2.5432E-006$$

$$R = 0.9999$$

$$DL = 1.187$$

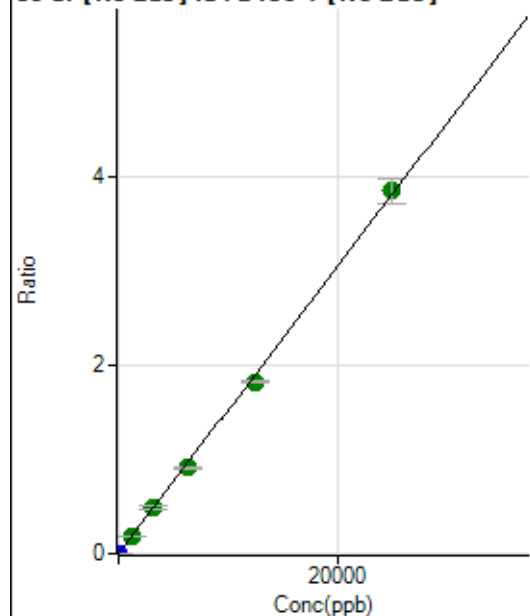
$$BEC = -0.2662$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			220.39		P	8.2
2	☐			240.39		P	1.1
3	☐			229.56		P	10.1
4	☐			231.22		P	6.8
5	☐			228.72		P	8.2
6	☐			229.55		P	1.1
7	☐			249.55		P	2.8
8	☐			217.48		P	3.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	552.82	0.0001	P	26.6
2	☐	1.000	0.817	1602.93	0.0002	P	11.2
3	☐	1250.000	1247.585	1558975.69	0.1896	A	1.3
4	☐	3125.000	3209.095	3861255.38	0.4876	A	10.2
5	☐	6250.000	5973.765	7782532.20	0.9076	A	1.7
6	☐	12500.000	11996.451	14912718.73	1.8225	A	1.4
7	☐	25000.000	25310.442	30174115.95	3.8451	A	7.0
8	☐			4337.80	0.0006	P	68.3

$$y = 1.5191\text{E-}004 * x + 6.7961\text{E-}005$$

$$R = 0.9996$$

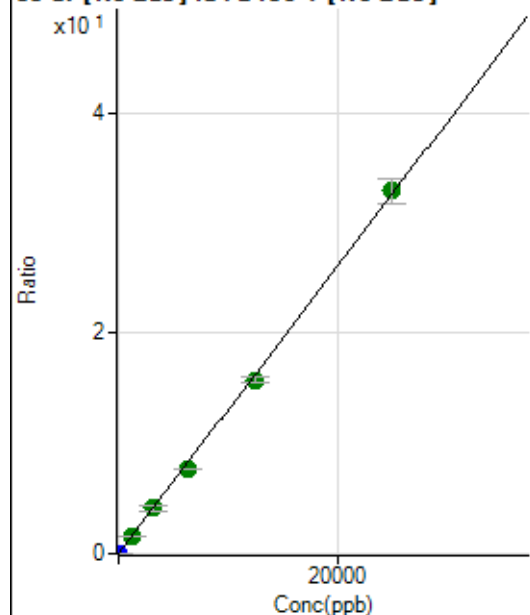
$$DL = 0.3566$$

$$BEC = 0.4474$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2776.30	0.0003	P	107.4
2	☐	1.000	0.777	11333.19	0.0014	P	4.2
3	☐	1250.000	1235.224	13240128.25	1.6102	A	0.8
4	☐	3125.000	3167.521	32674991.01	4.1286	A	11.1
5	☐	6250.000	5862.603	65527234.10	7.6411	A	1.0
6	☐	12500.000	12118.763	129216179.2	15.7948	A	2.5
7	☐	25000.000	25282.891	258631741.8	32.9516	A	6.6
8	☐			36493.47	0.0049	P	71.1

$$y = 0.0013 * x + 3.4403E-004$$

$$R = 0.9997$$

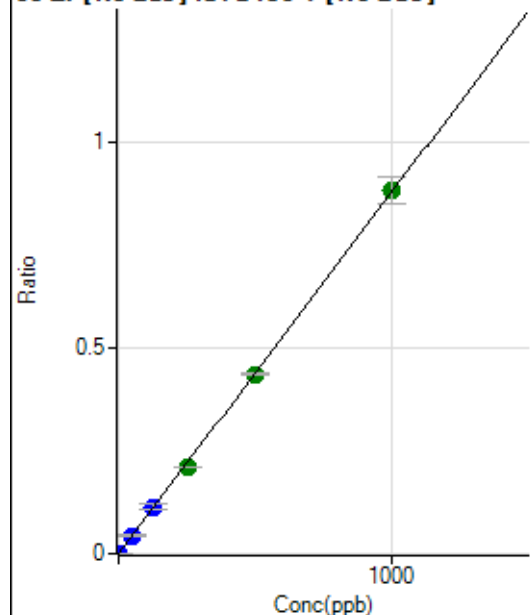
$$DL = 0.8507$$

$$BEC = 0.264$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	497.32	0.0001	P	43.7
2	☐	1.000	0.860	6824.03	0.0008	P	4.1
3	☐	50.000	50.224	363427.18	0.0442	P	1.3
4	☐	125.000	130.125	905557.88	0.1144	P	11.1
5	☐	250.000	240.012	1809360.20	0.2110	A	0.2
6	☐	500.000	495.722	3565404.51	0.4357	A	1.4
7	☐	1000.000	1003.984	6923844.77	0.8824	A	7.3
8	☐			3275.70	0.0004	P	22.8

$$y = 8.7885E-004 * x + 6.1229E-005$$

$$R = 0.9999$$

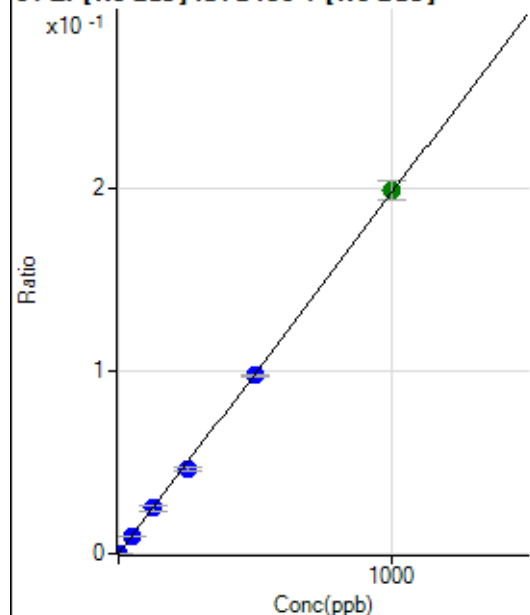
$$DL = 0.09134$$

$$BEC = 0.06967$$

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	119.45	0.0000	P	44.3
2	☐	1.000	0.794	1433.44	0.0002	P	3.8
3	☐	50.000	49.389	80343.28	0.0098	P	2.3
4	☐	125.000	126.970	198527.93	0.0251	P	11.6
5	☐	250.000	234.577	397444.54	0.0464	P	2.5
6	☐	500.000	494.139	798779.18	0.0976	P	1.5
7	☐	1000.000	1006.570	1561304.22	0.1988	A	5.5
8	☐			722.30	0.0001	P	36.0

$$y = 1.9753\text{E-}004 * x + 1.4724\text{E-}005$$

$$R = 0.9998$$

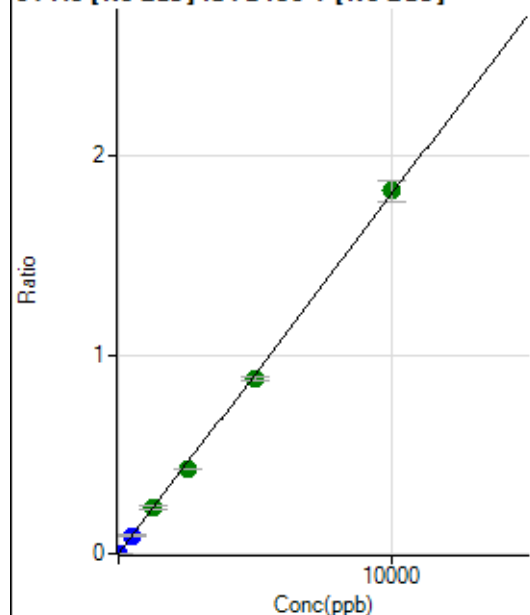
$$DL = 0.09897$$

$$BEC = 0.07454$$

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	676.07	0.0001	P	148.2
2	☐	5.000	4.797	7955.24	0.0010	P	1.2
3	☐	500.000	507.442	755604.07	0.0919	P	1.3
4	☐	1250.000	1295.158	1856417.27	0.2344	A	10.1
5	☐	2500.000	2354.408	3653125.17	0.4260	A	1.6
6	☐	5000.000	4876.237	7218898.86	0.8823	A	1.8
7	☐	10000.000	10092.263	14336597.89	1.8260	A	5.6
8	☐			5838.52	0.0008	P	28.8

$$y = 1.8092\text{E-}004 * x + 8.4163\text{E-}005$$

$$R = 0.9997$$

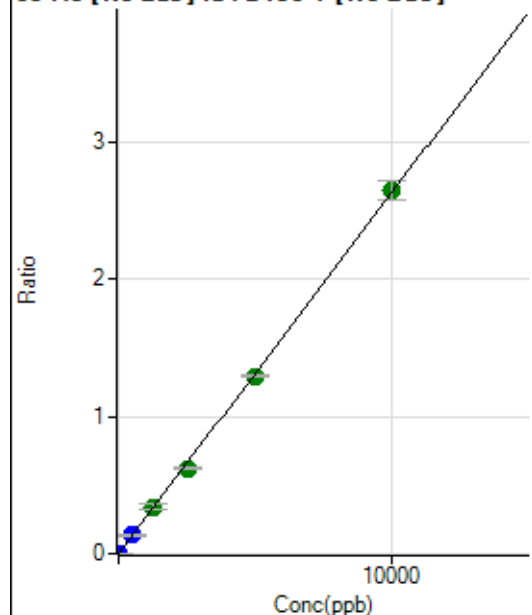
$$DL = 2.068$$

$$BEC = 0.4652$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	812.93	0.0001	P	164.5
2	☐	5.000	4.155	9951.03	0.0012	P	3.1
3	☐	500.000	507.935	1096854.61	0.1334	P	1.4
4	☐	1250.000	1299.662	2699772.09	0.3412	A	11.2
5	☐	2500.000	2362.165	5316273.86	0.6200	A	1.0
6	☐	5000.000	4930.918	10588324.11	1.2941	A	1.6
7	☐	10000.000	10062.396	20735695.60	2.6407	A	5.3
8	☐			8132.41	0.0011	P	34.9

$$y = 2.6242\text{E-}004 * x + 1.0135\text{E-}004$$

$$R = 0.9998$$

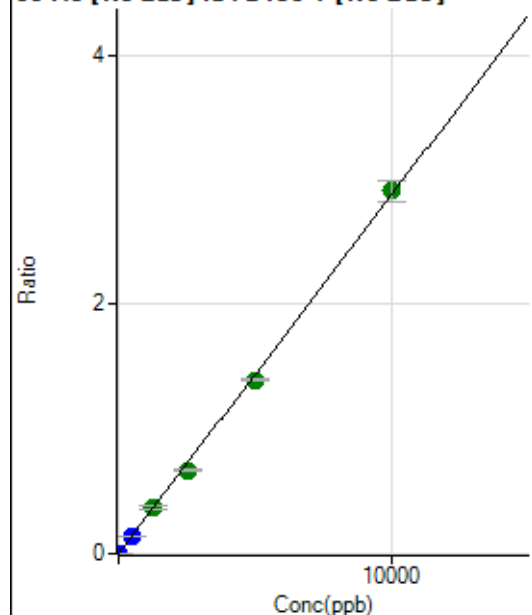
$$DL = 1.907$$

$$BEC = 0.3862$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	994.22	0.0001	P	151.9
2	☐	5.000	4.221	11185.36	0.0013	P	1.7
3	☐	500.000	504.146	1193889.35	0.1452	P	1.0
4	☐	1250.000	1292.479	2945783.03	0.3721	A	10.5
5	☐	2500.000	2329.350	5748831.12	0.6704	A	1.0
6	☐	5000.000	4848.728	11417303.55	1.3954	A	1.7
7	☐	10000.000	10112.782	22849614.23	2.9102	A	5.6
8	☐			8935.29	0.0012	P	28.1

$$y = 2.8776\text{E-}004 * x + 1.2379\text{E-}004$$

$$R = 0.9996$$

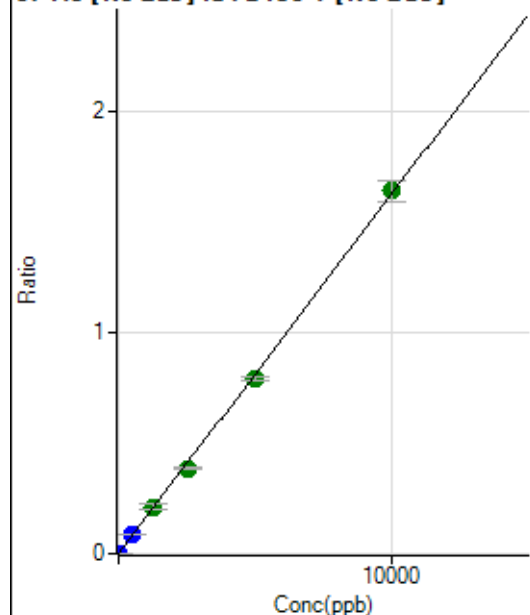
$$DL = 1.961$$

$$BEC = 0.4302$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	397.70	0.0000	P	169.7
2	☐	5.000	4.358	6337.70	0.0008	P	5.2
3	☐	500.000	511.938	685701.94	0.0834	P	0.3
4	☐	1250.000	1309.392	1686566.86	0.2132	A	11.8
5	☐	2500.000	2368.745	3307043.11	0.3857	A	1.3
6	☐	5000.000	4866.994	6483543.46	0.7924	A	1.5
7	☐	10000.000	10091.296	12899078.58	1.6429	A	5.6
8	☐			5177.40	0.0007	P	32.7

$$y = 1.6280\text{E-}004 * x + 4.9609\text{E-}005$$

$$R = 0.9997$$

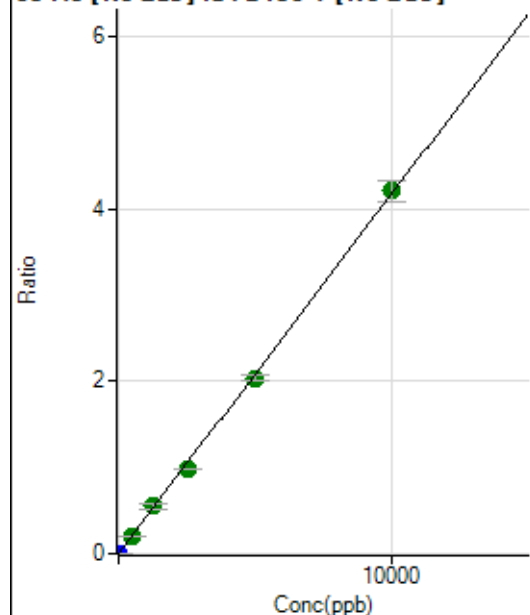
$$DL = 1.551$$

$$BEC = 0.3047$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1290.93	0.0002	P	167.8
2	☐	5.000	4.244	16137.55	0.0019	P	0.2
3	☐	500.000	504.873	1733412.52	0.2108	A	0.8
4	☐	1250.000	1309.877	4327693.59	0.5467	A	10.9
5	☐	2500.000	2353.432	8421423.37	0.9821	A	1.8
6	☐	5000.000	4882.647	16666701.07	2.0373	A	3.0
7	☐	10000.000	10087.591	33049504.21	4.2090	A	5.6
8	☐			13069.05	0.0017	P	30.2

$$y = 4.1723\text{E-}004 * x + 1.6099\text{E-}004$$

$$R = 0.9997$$

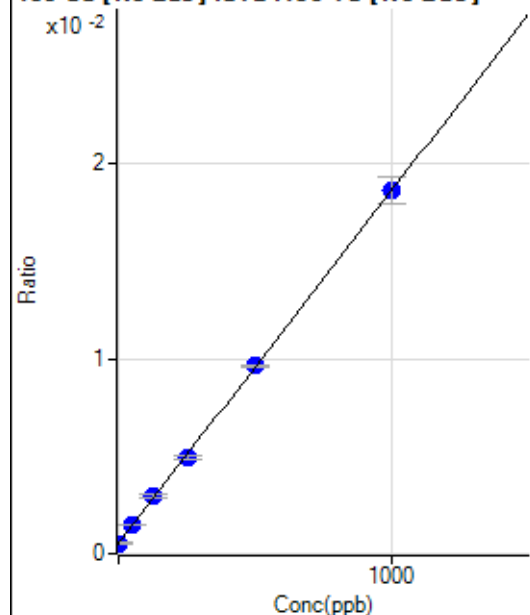
$$DL = 1.942$$

$$BEC = 0.3858$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3339.39	0.0005	P	4.9
2	☐	1.000	-0.753	3392.17	0.0005	P	7.2
3	☐	50.000	52.390	9506.36	0.0015	P	5.7
4	☐	125.000	134.874	18315.31	0.0030	P	7.2
5	☐	250.000	242.587	32293.90	0.0049	P	3.1
6	☐	500.000	502.693	61431.98	0.0096	P	1.7
7	☐	1000.000	999.155	115464.72	0.0186	P	7.6
8	☐			2655.89	0.0004	P	5.6

$$y = 1.8071\text{E-}005 * x + 5.3718\text{E-}004$$

$$R = 0.9999$$

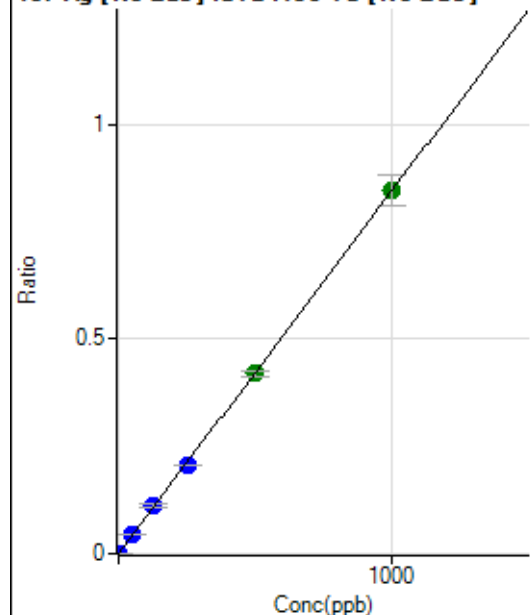
$$DL = 4.394$$

$$BEC = 29.73$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	258.44	0.0000	P	111.3
2	☐	1.000	0.951	5467.91	0.0008	P	4.2
3	☐	50.000	52.344	283095.09	0.0442	P	0.9
4	☐	125.000	133.254	691096.17	0.1124	P	9.5
5	☐	250.000	245.369	1358057.12	0.2069	P	1.1
6	☐	500.000	497.536	2677898.11	0.4196	A	3.6
7	☐	1000.000	1001.241	5240619.69	0.8443	A	8.5
8	☐			900.06	0.0002	P	11.7

$$y = 8.4318\text{E-}004 * x + 4.2398\text{E-}005$$

$$R = 0.9999$$

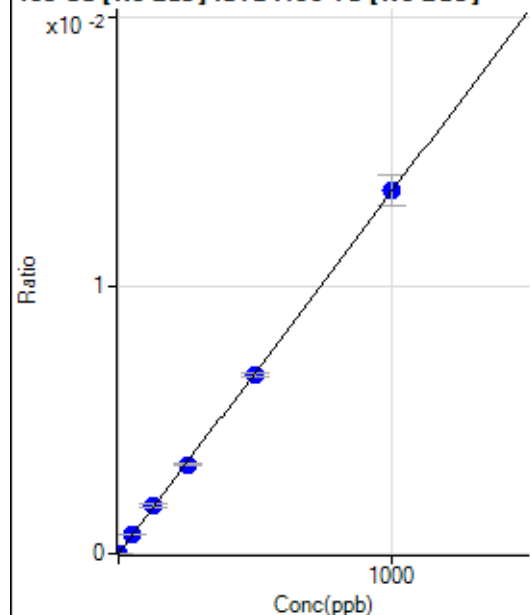
$$DL = 0.1679$$

$$BEC = 0.05028$$

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	25.00	0.0000	P	30.1
2	☐	1.000	1.210	131.95	0.0000	P	18.0
3	☐	50.000	52.139	4532.75	0.0007	P	3.4
4	☐	125.000	131.777	10965.60	0.0018	P	8.2
5	☐	250.000	245.969	21804.87	0.0033	P	2.3
6	☐	500.000	493.777	42555.91	0.0067	P	2.8
7	☐	1000.000	1003.165	84034.59	0.0135	P	8.5
8	☐			119.45	0.0000	P	13.7

$$y = 1.3492\text{E-}005 * x + 4.0316\text{E-}006$$

$$R = 0.9999$$

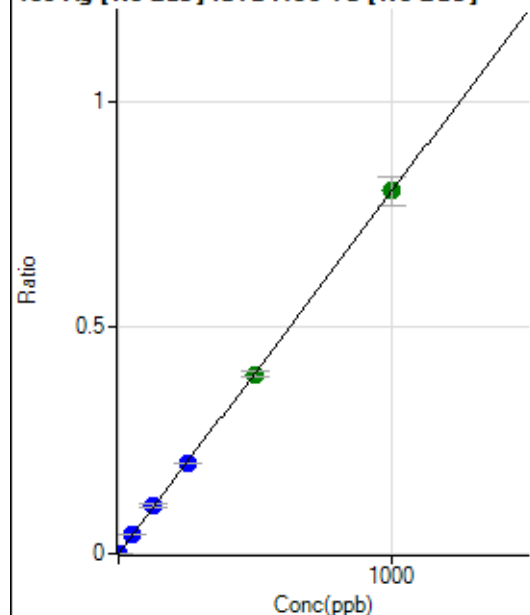
$$DL = 0.2698$$

$$BEC = 0.2988$$

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	150.05	0.0000	P	123.7
2	☐	1.000	0.915	4906.56	0.0008	P	3.2
3	☐	50.000	52.024	267110.38	0.0417	P	1.4
4	☐	125.000	132.051	650037.56	0.1058	P	10.3
5	☐	250.000	248.037	1303718.88	0.1986	P	0.5
6	☐	500.000	495.408	2532728.64	0.3967	A	2.7
7	☐	1000.000	1001.804	4981853.71	0.8023	A	7.8
8	☐			916.75	0.0002	P	21.2

$$y = 8.0079\text{E-}004 * x + 2.4666\text{E-}005$$

$$R = 1.0000$$

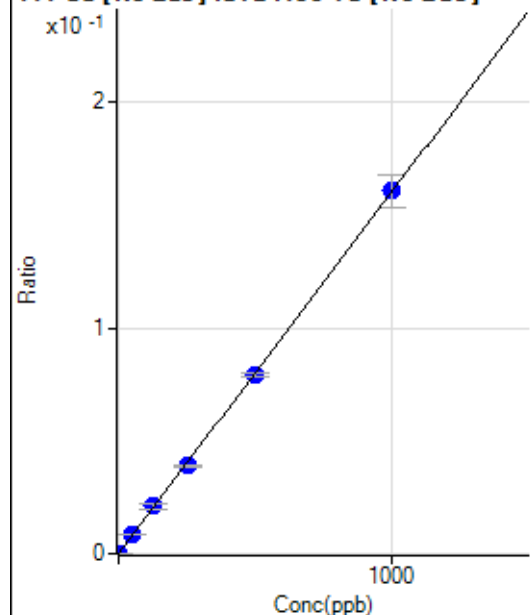
$$DL = 0.1143$$

$$BEC = 0.0308$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.17	0.0000	P	32.6
2	☐	1.000	0.892	1018.59	0.0002	P	3.5
3	☐	50.000	51.284	52750.44	0.0082	P	1.9
4	☐	125.000	131.171	129319.54	0.0210	P	9.7
5	☐	250.000	242.244	254855.46	0.0388	P	1.7
6	☐	500.000	494.710	506177.51	0.0793	P	2.7
7	☐	1000.000	1003.749	998413.96	0.1609	P	8.7
8	☐			569.53	0.0001	P	7.5

$$y = 1.6025\text{E-}004 * x + 1.4246\text{E-}005$$

$$R = 0.9999$$

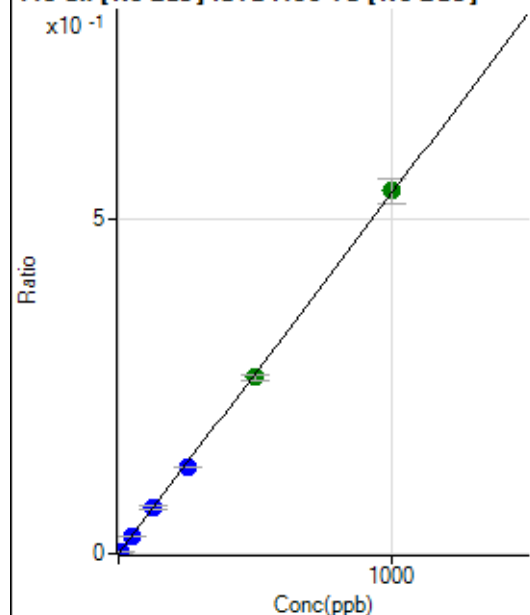
$$DL = 0.08689$$

$$BEC = 0.0889$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD:159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	536.15	0.0001	P	17.9
2	☐	5.000	4.461	16076.50	0.0025	P	1.3
3	☐	50.000	49.674	171439.06	0.0268	P	0.9
4	☐	125.000	129.107	426431.59	0.0694	P	10.5
5	☐	250.000	240.333	847318.76	0.1291	P	1.8
6	☐	500.000	488.656	1675644.15	0.2624	A	2.3
7	☐	1000.000	1007.595	3361033.58	0.5410	A	6.9
8	☐			2397.52	0.0004	P	11.5

$$y = 5.3685\text{E-}004 * x + 8.6442\text{E-}005$$

$$R = 0.9998$$

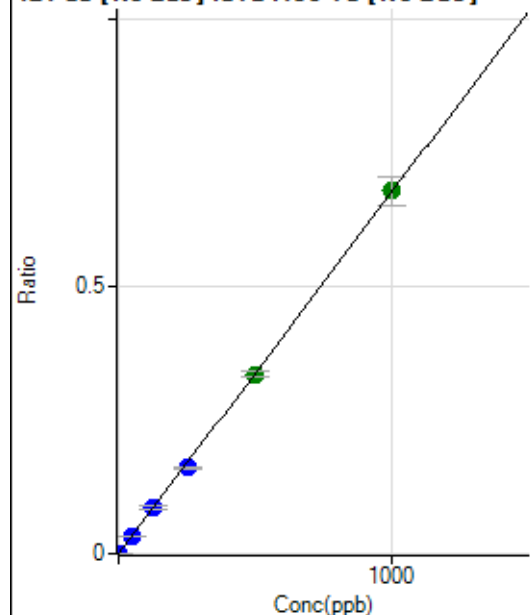
$$DL = 0.08656$$

$$BEC = 0.161$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.15	0.0000	P	93.6
2	☐	2.000	1.779	7971.96	0.0012	P	1.7
3	☐	50.000	49.601	215209.90	0.0336	P	2.3
4	☐	125.000	126.769	527580.19	0.0858	P	9.5
5	☐	250.000	238.531	1059382.76	0.1614	P	1.9
6	☐	500.000	496.219	2143398.20	0.3358	A	3.1
7	☐	1000.000	1004.557	4220853.31	0.6797	A	7.8
8	☐			2044.67	0.0003	P	12.4

$$y = 6.7663\text{E-}004 * x + 2.6336\text{E-}005$$

$$R = 0.9999$$

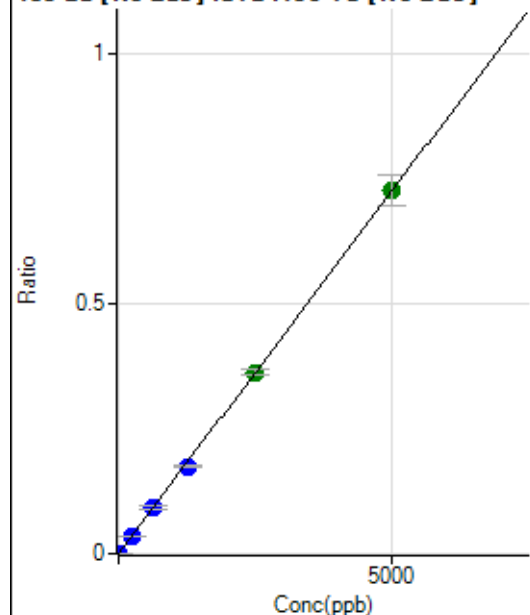
$$DL = 0.1093$$

$$BEC = 0.03892$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.35	0.0000	P	62.2
2	☐	10.000	8.932	8519.60	0.0013	P	1.9
3	☐	250.000	247.468	229717.29	0.0358	P	2.0
4	☐	625.000	634.101	564631.73	0.0918	P	9.4
5	☐	1250.000	1196.017	1136497.72	0.1732	P	2.4
6	☐	2500.000	2507.194	2317149.57	0.3630	A	3.1
7	☐	5000.000	5008.890	4501145.37	0.7252	A	8.6
8	☐			2611.45	0.0004	P	11.4

$$y = 1.4478\text{E-}004 * x + 2.1657\text{E-}005$$

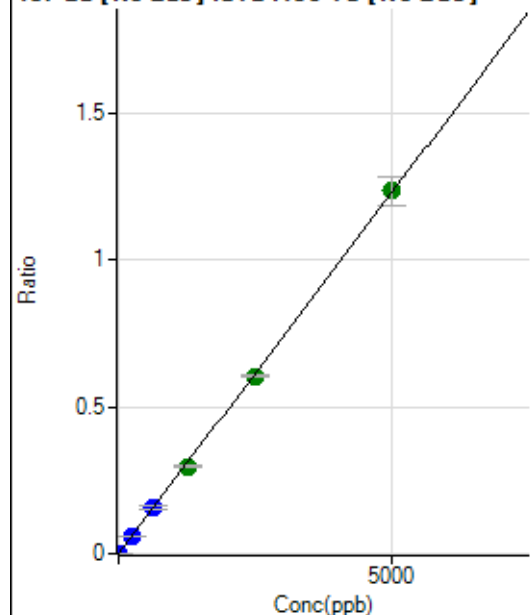
$$R = 0.9999$$

$$DL = 0.2791$$

$$BEC = 0.1496$$

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	227.83	0.0000	P	86.4
2	☐	10.000	9.035	14633.29	0.0023	P	3.8
3	☐	250.000	249.422	393126.23	0.0614	P	2.6
4	☐	625.000	647.903	979579.42	0.1593	P	9.5
5	☐	1250.000	1209.752	1952062.39	0.2974	A	2.1
6	☐	2500.000	2461.949	3864647.70	0.6053	A	1.9
7	☐	5000.000	5026.255	7674004.16	1.2357	A	7.7
8	☐			4934.38	0.0008	P	3.3

$$y = 2.4584E-004 * x + 3.7143E-005$$

$$R = 0.9999$$

$$DL = 0.3915$$

$$BEC = 0.1511$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.34		P	86.6
2	☐			22.22		P	17.3
3	☐			26.67		P	25.0
4	☐			51.11		P	52.7
5	☐			60.00		P	29.4
6	☐			144.45		P	2.7
7	☐			246.67		P	13.5
8	☐			162.22		P	2.4

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			2.22		P	86.6
3	☐			3.33		P	0.0
4	☐			3.33		P	100.1
5	☐			7.78		P	137.8
6	☐			8.89		P	21.6
7	☐			22.22		P	37.8
8	☐			47.78		P	28.2

156 Dy [No Gas] No available calibration points

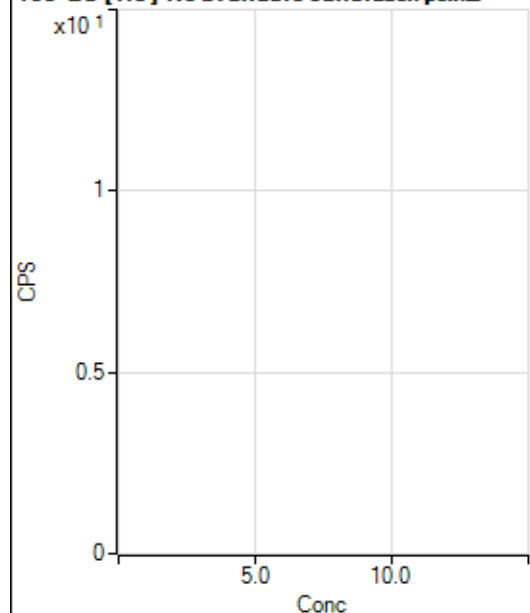
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			111.11		P	24.1
2	☐			72.22		P	17.6
3	☐			94.45		P	20.4
4	☐			105.56		P	32.9
5	☐			158.34		P	34.5
6	☐			177.78		P	7.2
7	☐			347.23		P	17.7
8	☐			963.95		P	12.6

156 Dy [He] No available calibration points

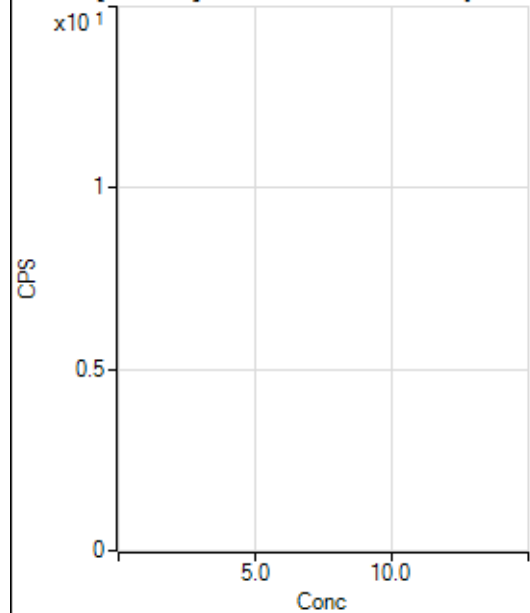
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	124.9
2	☐			5.55		P	124.9
3	☐			16.67		P	52.9
4	☐			22.22		P	37.8
5	☐			34.45		P	11.2
6	☐			88.89		P	12.1
7	☐			138.89		P	16.0
8	☐			464.46		P	11.8

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.56		P	23.9
2	☐			102.78		P	32.8
3	☐			125.00		P	26.7
4	☐			105.56		P	12.1
5	☐			133.34		P	16.5
6	☐			205.56		P	10.2
7	☐			258.34		P	17.1
8	☐			977.84		P	13.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			92.22		P	23.5
2	☐			100.00		P	10.0
3	☐			90.00		P	9.8
4	☐			78.89		P	2.4
5	☐			111.11		P	7.6
6	☐			125.56		P	17.7
7	☐			203.34		P	13.4
8	☐			641.14		P	1.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	65.5
2	☐			55.56		P	52.7
3	☐			47.22		P	66.8
4	☐			58.33		P	65.5
5	☐			63.89		P	39.8
6	☐			66.67		P	43.3
7	☐			66.67		P	43.3
8	☐			186.12		P	9.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	14.3
2	☐			24.44		P	47.9
3	☐			21.11		P	39.7
4	☐			17.78		P	39.0
5	☐			25.56		P	32.8
6	☐			17.78		P	84.6
7	☐			36.66		P	41.7
8	☐			68.89		P	18.3

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	21.7
2	☐			33.34		P	86.6
3	☐			52.78		P	24.1
4	☐			55.56		P	37.8
5	☐			30.55		P	15.7
6	☐			100.00		P	0.0
7	☐			119.45		P	16.1
8	☐			127.78		P	38.2

172 Yb [He] No available calibration points

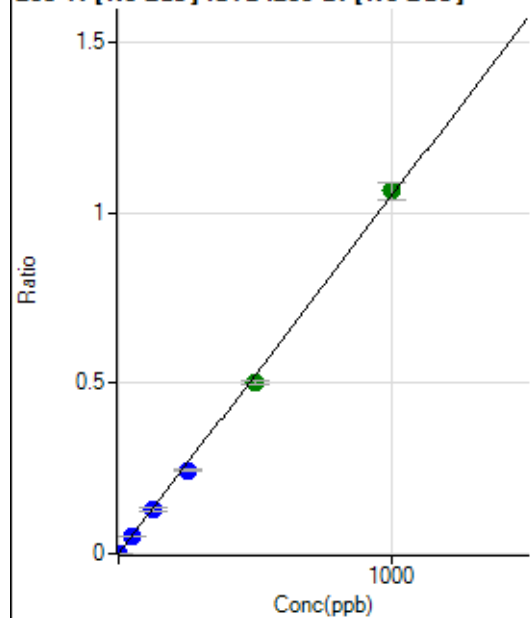
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.52		P	34.6
2	☐			12.96		P	24.8
3	☐			14.82		P	57.3
4	☐			25.93		P	44.6
5	☐			18.52		P	34.6
6	☐			33.33		P	44.1
7	☐			74.08		P	15.6
8	☐			66.67		P	8.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1211.20		P	5.6
2	☐			1188.98		P	13.0
3	☐			2114.12		P	4.1
4	☐			3367.20		P	5.6
5	☐			6015.42		P	1.4
6	☐			10190.39		P	3.2
7	☐			19615.13		P	1.5
8	☐			1022.29		P	13.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6512.83		P	4.3
2	☐			6460.96		P	0.4
3	☐			6731.47		P	1.7
4	☐			7652.35		P	3.5
5	☐			8508.42		P	1.8
6	☐			10534.01		P	2.8
7	☐			15090.39		P	2.0
8	☐			6336.82		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	172.23	0.0000	P	52.8
2	☐	1.000	0.817	3831.23	0.0009	P	4.6
3	☐	50.000	48.257	220877.80	0.0507	P	2.0
4	☐	125.000	124.648	541736.92	0.1309	P	9.5
5	☐	250.000	233.421	1078203.82	0.2450	P	3.1
6	☐	500.000	479.804	2175089.92	0.5036	A	2.0
7	☐	1000.000	1014.374	4337155.13	1.0646	A	5.0
8	☐			997.29	0.0003	P	22.3

$$y = 0.0010 * x + 4.0739E-005$$

$$R = 0.9995$$

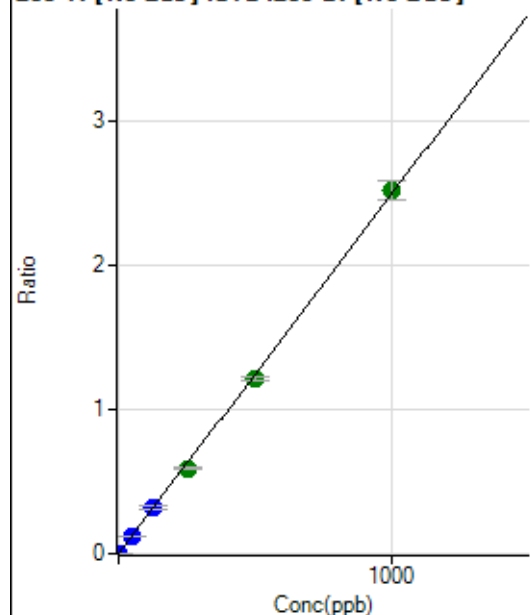
$$DL = 0.0615$$

$$BEC = 0.03882$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	319.48	0.0001	P	34.7
2	☐	1.000	0.916	10045.84	0.0024	P	1.5
3	☐	50.000	48.171	522326.49	0.1198	P	1.2
4	☐	125.000	127.503	1312392.75	0.3171	P	9.9
5	☐	250.000	237.844	2602920.59	0.5914	A	2.4
6	☐	500.000	486.480	5224323.34	1.2096	A	1.8
7	☐	1000.000	1009.577	10226049.62	2.5103	A	5.2
8	☐			2344.75	0.0006	P	7.2

$$y = 0.0025 * x + 7.5460E-005$$

$$R = 0.9998$$

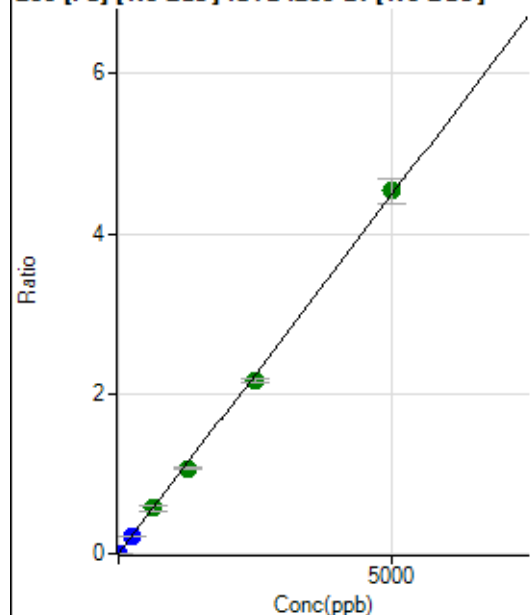
$$DL = 0.03156$$

$$BEC = 0.03035$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	540.77	0.0001	P	13.5
2	☐	1.000	0.914	4037.90	0.0009	P	9.7
3	☐	250.000	231.896	906631.25	0.2080	P	1.3
4	☐	625.000	632.925	2346185.35	0.5676	A	11.7
5	☐	1250.000	1189.853	4695534.19	1.0668	A	1.9
6	☐	2500.000	2412.554	9341919.65	2.1630	A	2.1
7	☐	5000.000	5058.675	18469380.27	4.5353	A	6.6
8	☐			7904.42	0.0021	P	8.5

$$y = 8.9651E-004 * x + 1.2738E-004$$

$$R = 0.9997$$

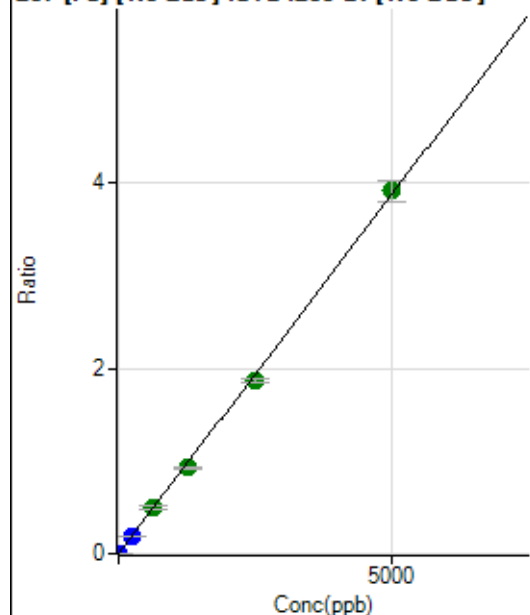
$$DL = 0.05733$$

$$BEC = 0.1421$$

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	451.88	0.0001	P	22.7
2	☐	1.000	0.895	3411.77	0.0008	P	7.8
3	☐	250.000	238.790	806540.93	0.1850	P	1.0
4	☐	625.000	647.212	2075012.14	0.5013	A	9.9
5	☐	1250.000	1200.978	4093943.96	0.9302	A	2.1
6	☐	2500.000	2410.085	8060692.48	1.8666	A	2.5
7	☐	5000.000	5054.997	15947512.05	3.9150	A	5.6
8	☐			6920.53	0.0018	P	2.9

$$y = 7.7446\text{E-}004 * x + 1.0658\text{E-}004$$

$$R = 0.9997$$

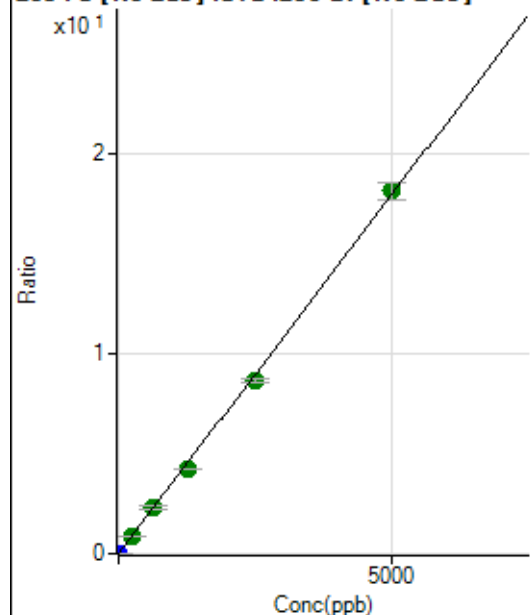
$$DL = 0.09391$$

$$BEC = 0.1376$$

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	2107.58	0.0005	P	15.5
2	☐	1.000	0.910	16061.17	0.0038	P	10.6
3	☐	250.000	238.511	3732297.96	0.8564	A	1.3
4	☐	625.000	636.148	9449689.86	2.2833	A	10.0
5	☐	1250.000	1181.306	18658256.72	4.2395	A	1.6
6	☐	2500.000	2419.940	37501486.42	8.6843	A	2.6
7	☐	5000.000	5056.385	73930071.91	18.1450	A	4.9
8	☐			32122.25	0.0085	P	6.7

$$y = 0.0036 * x + 4.9667\text{E-}004$$

$$R = 0.9997$$

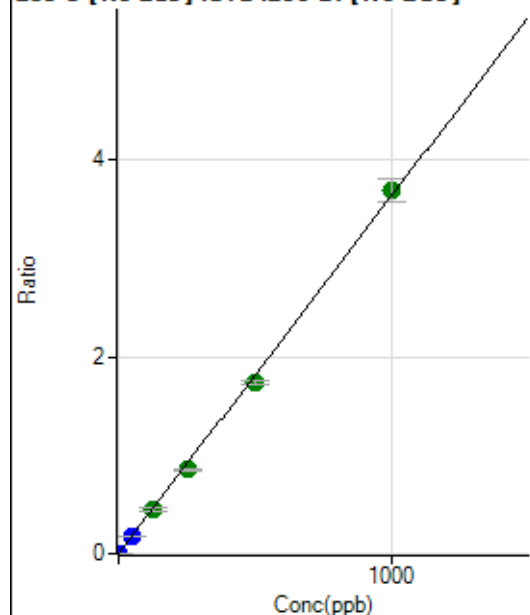
$$DL = 0.0645$$

$$BEC = 0.1384$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	180.59	0.0000	P	70.4
2	☐	1.000	0.889	13961.82	0.0033	P	5.8
3	☐	50.000	47.093	745729.42	0.1711	P	0.3
4	☐	125.000	123.817	1863942.53	0.4497	A	7.8
5	☐	250.000	235.304	3761127.52	0.8546	A	2.0
6	☐	500.000	479.768	7524450.08	1.7425	A	2.6
7	☐	1000.000	1014.083	14998216.48	3.6830	A	6.2
8	☐			1627.94	0.0004	P	5.4

$$y = 0.0036 * x + 4.2666E-005$$

$$R = 0.9996$$

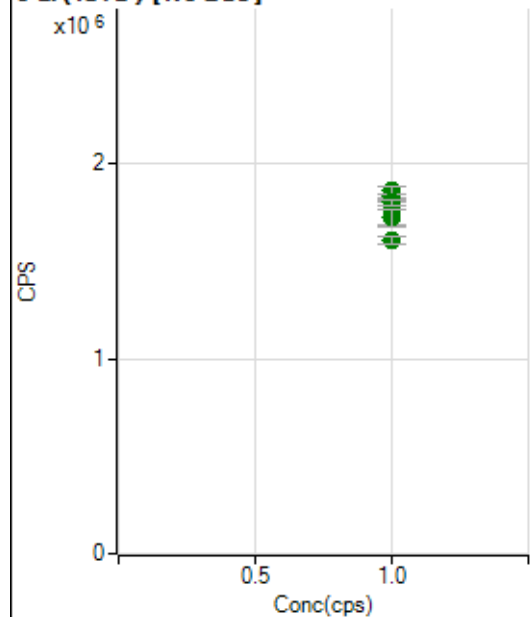
$$DL = 0.02481$$

$$BEC = 0.01175$$

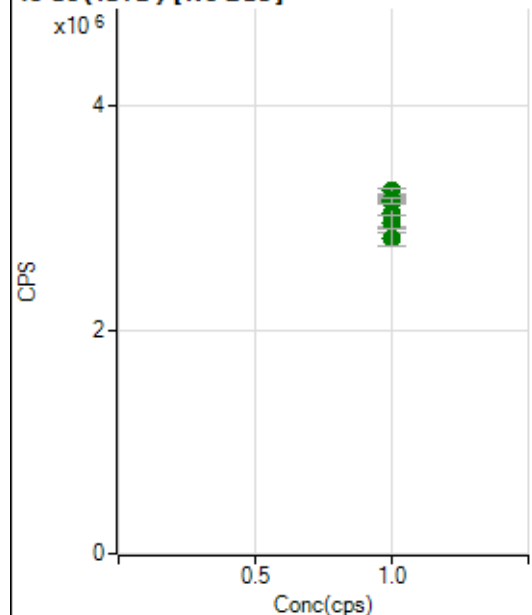
Weight: <None>

Min Conc: 0

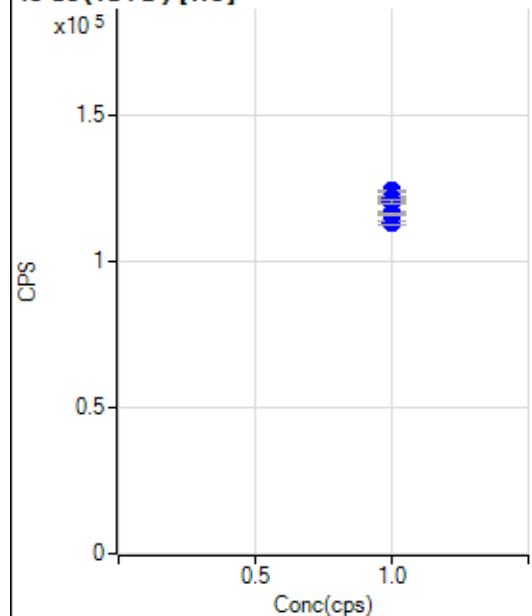
6 Li (ISTD) [No Gas]



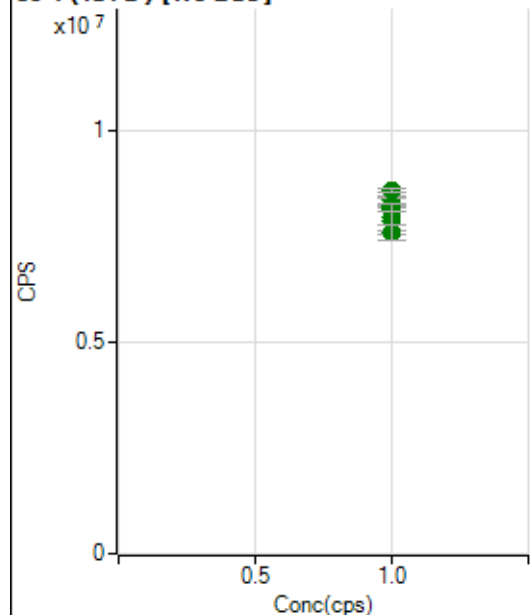
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1814398.63		A	1.2
2	☐	1.000		1836458.46		A	1.0
3	☐	1.000		1805558.03		A	1.7
4	☐	1.000		1769294.81		A	9.0
5	☐	1.000		1862378.65		A	2.2
6	☐	1.000		1802163.68		A	1.8
7	☐	1.000		1726646.32		A	5.1
8	☐	1.000		1613665.95		A	2.4

45 Sc (ISTD) [No Gas]

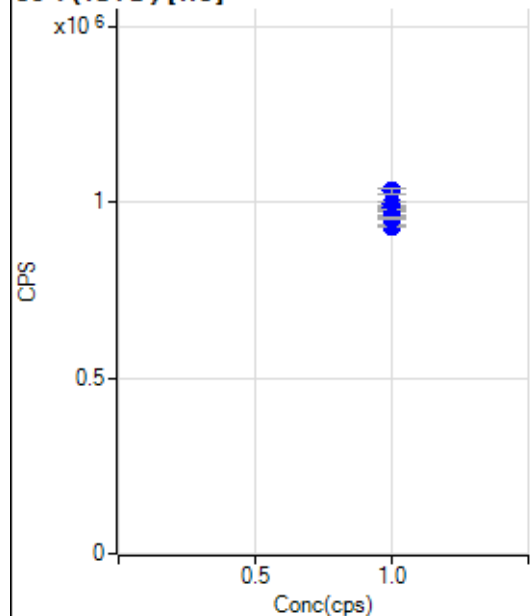
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3167278.63		A	1.5
2	☐	1.000		3154647.42		A	1.1
3	☐	1.000		3240759.71		A	1.4
4	☐	1.000		3039880.96		A	7.5
5	☐	1.000		3152841.65		A	1.3
6	☐	1.000		3144631.38		A	1.7
7	☐	1.000		2947757.04		A	5.6
8	☐	1.000		2824976.76		A	5.3

45 Sc (ISTD) [He]

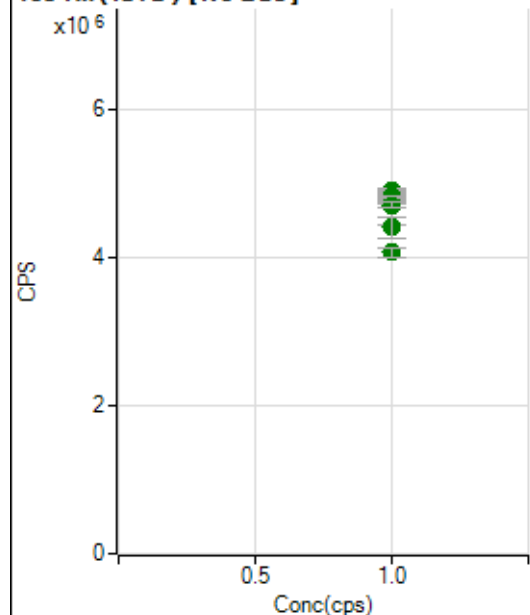
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		122062.74		P	0.9
2	☐	1.000		124154.48		P	0.6
3	☐	1.000		121970.87		P	1.0
4	☐	1.000		120639.44		P	0.8
5	☐	1.000		120407.40		P	1.2
6	☐	1.000		116765.77		P	0.6
7	☐	1.000		113234.62		P	1.3
8	☐	1.000		115952.63		P	0.6

89 Y (ISTD) [No Gas]

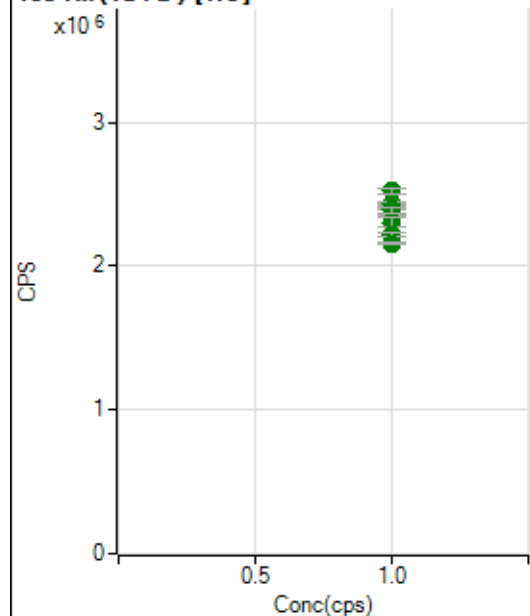
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8152851.68		A	1.7
2	☐	1.000		8354546.89		A	2.2
3	☐	1.000		8222625.43		A	0.9
4	☐	1.000		7976824.67		A	10.7
5	☐	1.000		8575430.43		A	1.0
6	☐	1.000		8184413.56		A	2.6
7	☐	1.000		7867715.16		A	5.5
8	☐	1.000		7572025.23		A	4.7

89 Y (ISTD) [He]

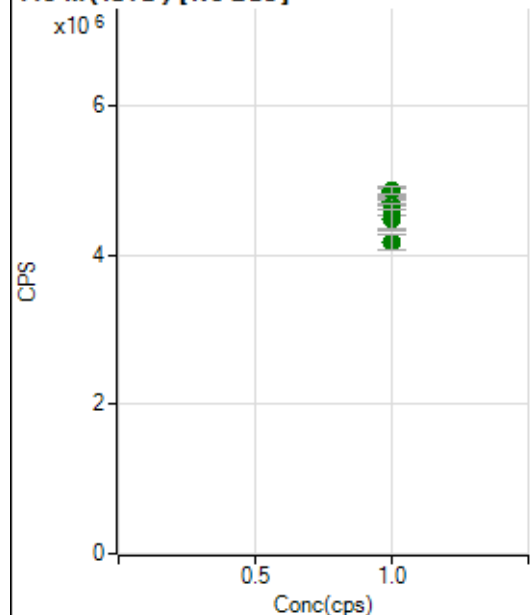
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		980186.25		P	1.4
2	☐	1.000		1033332.76		P	1.5
3	☐	1.000		994752.23		P	1.4
4	☐	1.000		985897.59		P	0.8
5	☐	1.000		979625.40		P	0.2
6	☐	1.000		960372.02		P	0.7
7	☐	1.000		932899.46		P	0.5
8	☐	1.000		954949.42		P	0.3

103 Rh(ISTD) [No Gas]

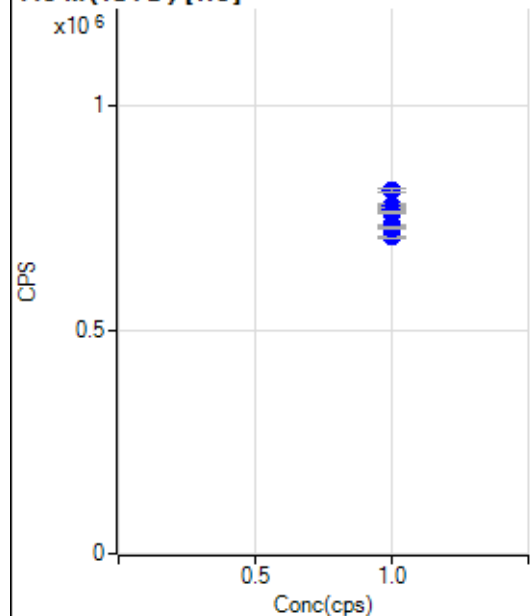
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4791790.77		A	2.4
2	☐	1.000		4801175.93		A	1.1
3	☐	1.000		4901417.08		A	0.7
4	☐	1.000		4690368.59		A	10.0
5	☐	1.000		4831077.19		A	0.6
6	☐	1.000		4712425.11		A	1.7
7	☐	1.000		4409944.37		A	6.2
8	☐	1.000		4071104.00		A	2.8

103 Rh(ISTD) [He]

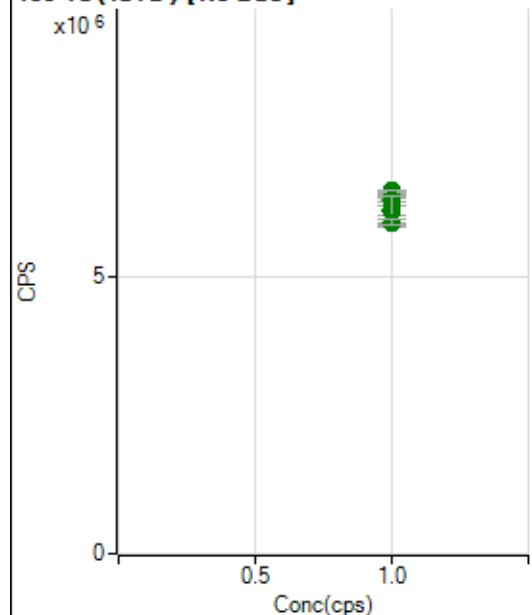
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2426256.33		A	0.9
2	☐	1.000		2523531.07		A	1.9
3	☐	1.000		2433245.76		A	1.0
4	☐	1.000		2373053.64		A	1.8
5	☐	1.000		2388152.73		A	1.9
6	☐	1.000		2305451.96		A	2.7
7	☐	1.000		2219123.53		A	1.2
8	☐	1.000		2157364.80		A	0.6

115 In (ISTD) [No Gas]

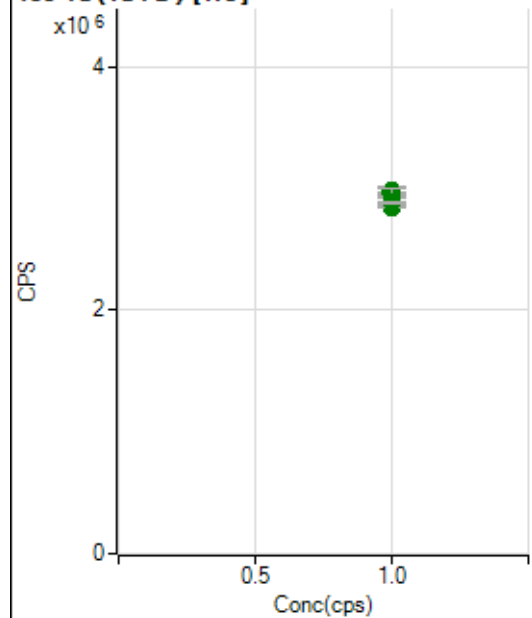
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4700363.04		A	1.3
2	☐	1.000		4840185.43		A	2.0
3	☐	1.000		4799806.33		A	0.6
4	☐	1.000		4539580.19		A	9.6
5	☐	1.000		4853289.67		A	2.2
6	☐	1.000		4607664.02		A	3.1
7	☐	1.000		4479506.74		A	6.1
8	☐	1.000		4170065.69		A	4.7

115 In (ISTD) [He]

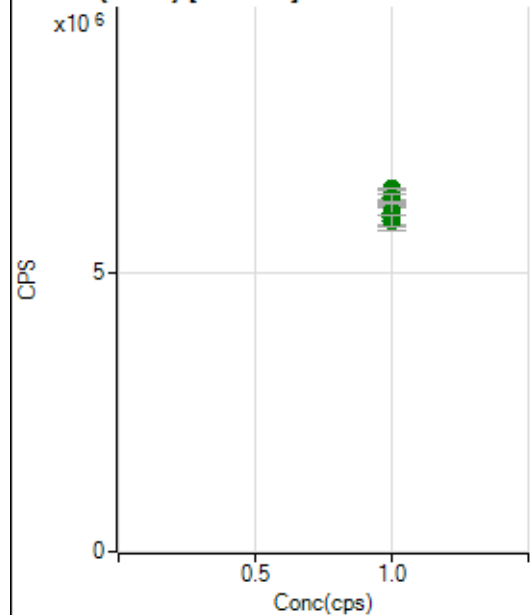
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		773741.55		P	1.1
2	☐	1.000		810184.65		P	1.0
3	☐	1.000		778767.05		P	1.0
4	☐	1.000		769944.76		P	0.9
5	☐	1.000		761643.47		P	0.4
6	☐	1.000		734410.02		P	0.5
7	☐	1.000		706454.30		P	1.2
8	☐	1.000		727445.70		P	0.4

159 Tb (ISTD) [No Gas]

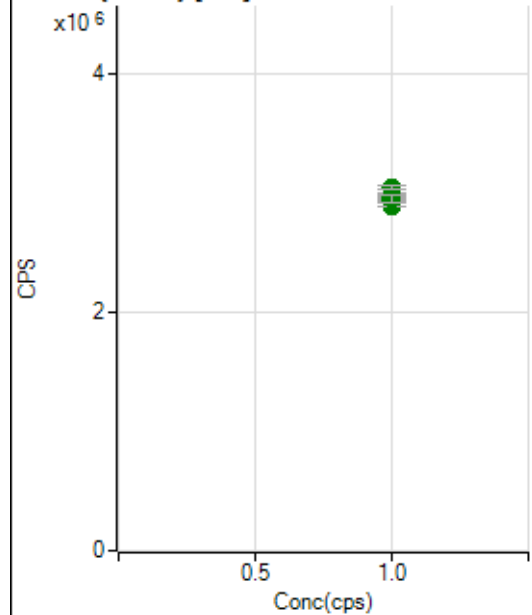
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6222041.16		A	2.7
2	☐	1.000		6479721.50		A	0.5
3	☐	1.000		6408473.10		A	1.1
4	☐	1.000		6184180.60		A	9.1
5	☐	1.000		6562967.82		A	0.3
6	☐	1.000		6387276.23		A	3.1
7	☐	1.000		6234129.35		A	7.6
8	☐	1.000		5999162.76		A	1.9

159 Tb (ISTD) [He]

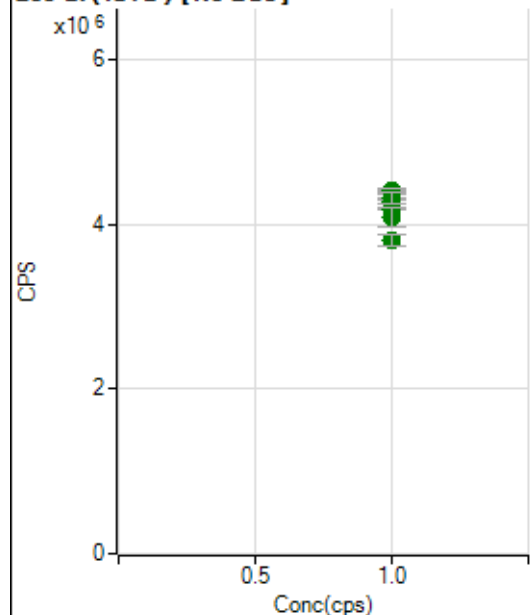
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2877092.80		A	0.7
2	☐	1.000		2978335.76		A	1.1
3	☐	1.000		2978013.39		A	2.6
4	☐	1.000		2973889.26		A	1.2
5	☐	1.000		2959734.40		A	2.5
6	☐	1.000		2862658.15		A	2.0
7	☐	1.000		2846094.54		A	0.4
8	☐	1.000		2884933.53		A	0.4

165 Ho (ISTD) [No Gas]

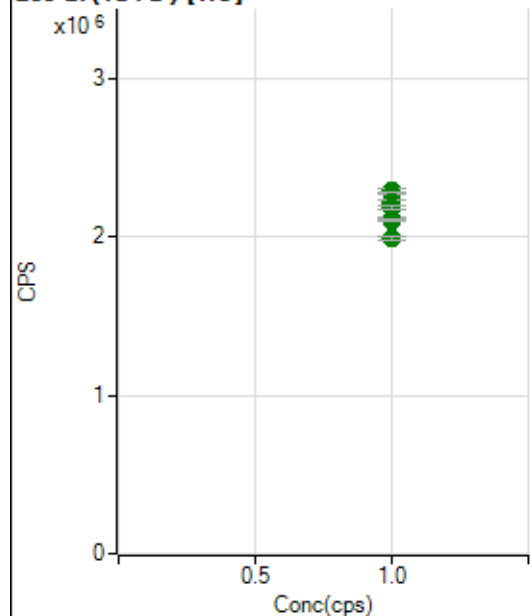
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6220464.81		A	1.3
2	☐	1.000		6243743.80		A	0.4
3	☐	1.000		6328907.35		A	0.3
4	☐	1.000		6015813.20		A	7.8
5	☐	1.000		6525630.31		A	0.8
6	☐	1.000		6363479.05		A	2.7
7	☐	1.000		6080278.26		A	7.1
8	☐	1.000		5937318.23		A	3.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2942632.01		A	2.0
2	☐	1.000		3031258.67		A	1.8
3	☐	1.000		2972962.35		A	0.2
4	☐	1.000		2960130.65		A	1.8
5	☐	1.000		3042772.70		A	1.1
6	☐	1.000		2934221.17		A	1.1
7	☐	1.000		2886428.98		A	0.3
8	☐	1.000		2950137.60		A	2.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4250496.78		A	3.0
2	☐	1.000		4267689.48		A	0.9
3	☐	1.000		4358891.12		A	1.8
4	☐	1.000		4165770.84		A	9.8
5	☐	1.000		4401498.44		A	1.1
6	☐	1.000		4320433.86		A	2.9
7	☐	1.000		4081429.35		A	5.5
8	☐	1.000		3805876.37		A	3.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2211289.15		A	1.5
2	☐	1.000		2291080.26		A	1.3
3	☐	1.000		2274118.52		A	0.6
4	☐	1.000		2219021.56		A	1.8
5	☐	1.000		2189940.50		A	1.1
6	☐	1.000		2111351.01		A	1.0
7	☐	1.000		2106103.42		A	0.7
8	☐	1.000		1993779.57		A	1.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8072623 MS.b

Acq. Date-Time 2023-07-26 10:50:04

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		7387	73874.59			2.595	5.000
24		287021	2870212.66			2.474	5.000
25		39488	394880.11			2.445	5.000
26		46828	468282.27			2.445	5.000
59		57754	577539.58			3.126	5.000
113		6358	63575.85			2.885	5.000
115		77782	777821.94			2.901	5.000
206		20884	208836.70			3.246	5.000
207		18569	185687.63			2.922	5.000
208		45113	451134.94			3.509	5.000
220		0	2.50			37.417	

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

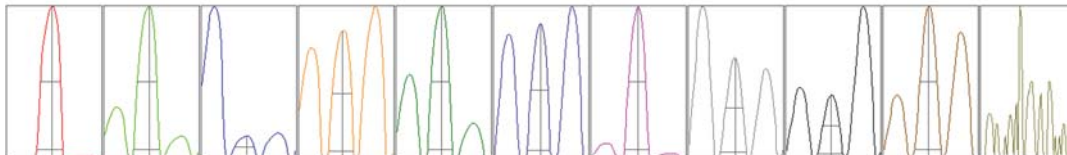
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7347	7585	7531	7379	7095
24	290013	293826	290051	285849	275367
25	39207	40612	39881	39727	38013
26	46491	48018	47432	47171	45030
59	57332	60028	58294	58063	55053
113	6341	6563	6440	6378	6066
115	77228	79979	79242	78266	74196
206	20566	21525	21222	21257	19848
207	18344	19107	18738	18916	17739
208	44306	46943	45630	45857	42832

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12313.51	8.95	8.90 - 9.10	
24	498213.81	23.95	23.90 - 24.10	
25	67595.81	24.95	24.90 - 25.10	
26	78360.65	25.90	25.90 - 26.10	
59	103117.14	58.95	58.90 - 59.10	
113	12443.74	113.00	112.90 - 113.10	
115	150794.09	115.00	114.90 - 115.10	
206	39530.87	206.00	205.90 - 206.10	
207	35346.01	206.95	206.90 - 207.10	
208	85581.97	207.95	207.90 - 208.10	
220	0.00	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.821	0.900	
24	0.62	0.823	0.900	
25	0.61	0.790	0.900	
26	0.63	0.787	0.900	
59	0.59	0.782	0.900	
113	0.53	0.733	0.900	
115	0.53	0.773	0.900	
206	0.53	0.820	0.900	
207	0.53	0.787	0.900	
208	0.53	0.833	0.900	
220	0.30	0.300		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 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	10.2 V	Deflect	13.8 V
Extract 2	-235.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	130 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9996	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.9 mm
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EM

Discriminator	4.5 mV	Analog HV	2311 V	Pulse HV	1655 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14321	143209.52			0.598	
89		33926	339262.07			0.580	
205		17541	175411.07			1.243	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14362	14372	14364	14170	14338
89	34154	33903	33907	33627	34039
205	17613	17803	17557	17201	17531

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 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	10.2 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-235.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	125	Axis Gain	0.9996	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.9 mm
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EM

Discriminator	4.5 mV	Analog HV	2311 V	Pulse HV	1655 V
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