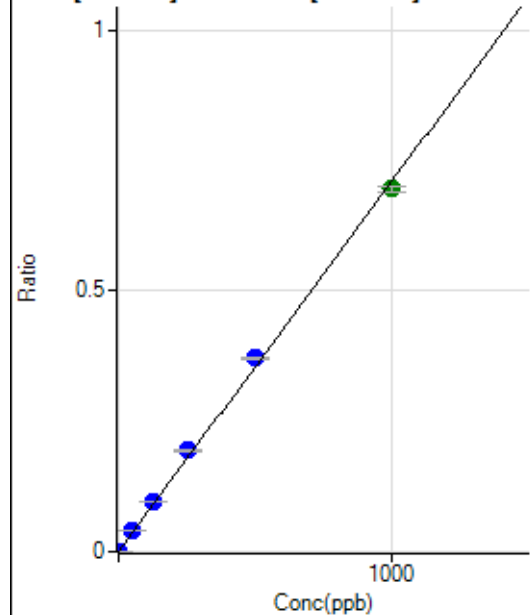


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7101823MS.b\
 Analysis File: P7101823MS.batch.bin
 DA Date-Time: 2023-10-20 12:37:55
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-10-18 12:03:14
2	006CALS.d	S02	2023-10-18 12:09:50
3	007CALS.d	S03	2023-10-18 12:13:07
4	008CALS.d	S04	2023-10-18 12:16:16
5	009CALS.d	S05	2023-10-18 12:19:14
6	010CALS.d	S06	2023-10-18 12:22:06
7	011CALS.d	S07	2023-10-18 12:24:53
8	012CALS.d	S08	2023-10-18 12:27:40

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	71.11	0.0000	P	18.3
2	☐	1.000	1.083	1422.30	0.0008	P	4.0
3	☐	50.000	56.466	70046.69	0.0400	P	0.1
4	☐	125.000	135.046	167087.35	0.0957	P	1.5
5	☐	250.000	273.748	328357.65	0.1940	P	1.5
6	☐	500.000	522.918	611362.54	0.3705	P	1.2
7	☐	1000.000	981.025	1120865.55	0.6950	A	1.4
8	☐			490.01	0.0003	P	17.1

$$y = 7.0840\text{E-}004 * x + 3.9944\text{E-}005$$

$$R = 0.9993$$

$$DL = 0.03096$$

$$BEC = 0.05639$$

Weight: <None>

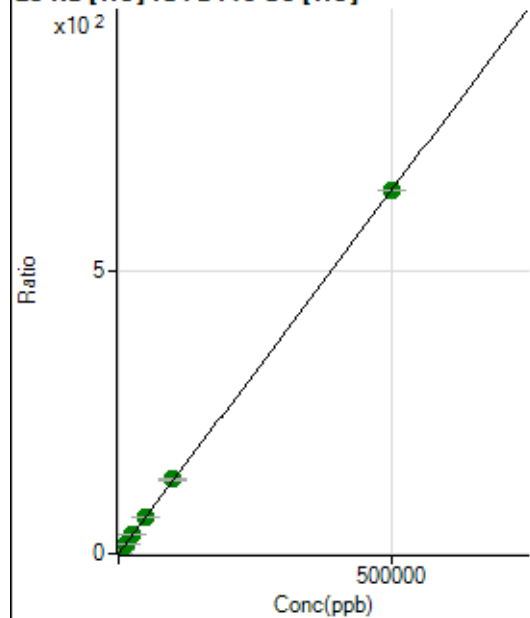
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9585.27	0.0287	P	1.6
2	☐	500.000	503.961	225694.22	0.6776	P	0.4
3	☐	5000.000	5272.579	2201886.25	6.8174	A	0.9
4	☐	12500.000	13013.538	5210926.73	16.7842	A	0.8
5	☐	25000.000	26746.666	10397189.43	34.4662	A	0.4
6	☐	50000.000	51526.654	19954884.01	66.3714	A	0.2
7	☐	100000.00	102232.20	38795333.31	131.6568	A	1.3
8	☐	500000.00	499297.99	180134330.6	642.8952	A	0.2

$$y = 0.0013 * x + 0.0287$$

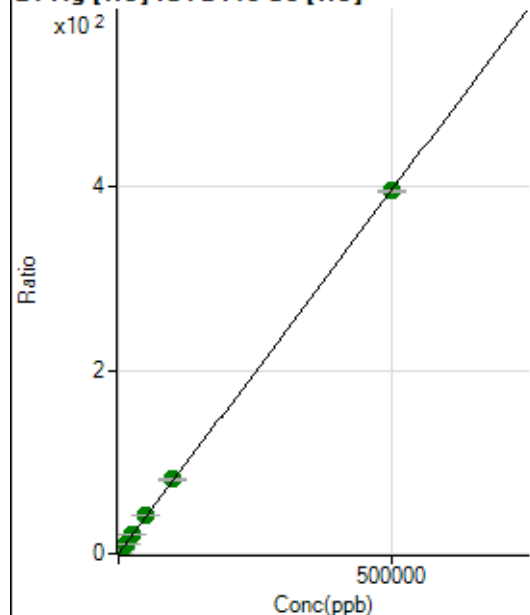
$$R = 1.0000$$

$$DL = 1.064$$

$$BEC = 22.32$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	958.93	0.0029	P	7.9
2	☐	500.000	498.943	132547.94	0.3980	P	0.9
3	☐	5000.000	5304.269	1357397.96	4.2029	A	1.6
4	☐	12500.000	13193.609	3244431.51	10.4500	A	0.3
5	☐	25000.000	26875.723	6420913.52	21.2838	A	0.9
6	☐	50000.000	51853.650	12345385.37	41.0621	A	0.8
7	☐	100000.00	102256.68	23860736.59	80.9727	A	0.8
8	☐	500000.00	499249.13	110764106.1	395.3227	A	0.3

$$y = 7.9183\text{E-}004 * x + 0.0029$$

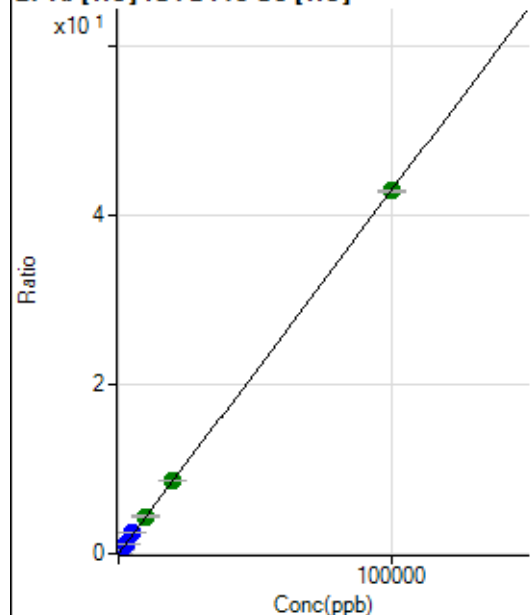
$$R = 1.0000$$

$$DL = 0.8576$$

$$BEC = 3.63$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	112.22	0.0003	P	21.1
2	☐	20.000	25.694	3786.06	0.0114	P	3.4
3	☐	1000.000	1102.435	152962.34	0.4736	P	1.1
4	☐	2500.000	2817.828	375660.21	1.2100	P	0.7
5	☐	5000.000	5663.918	733589.57	2.4317	P	0.6
6	☐	10000.000	10299.917	1329465.75	4.4219	A	0.8
7	☐	20000.000	20227.610	2558931.13	8.6836	A	0.4
8	☐	100000.00	99882.319	12013872.18	42.8777	A	0.3

$$y = 4.2928\text{E-}004 * x + 3.3620\text{E-}004$$

$$R = 1.0000$$

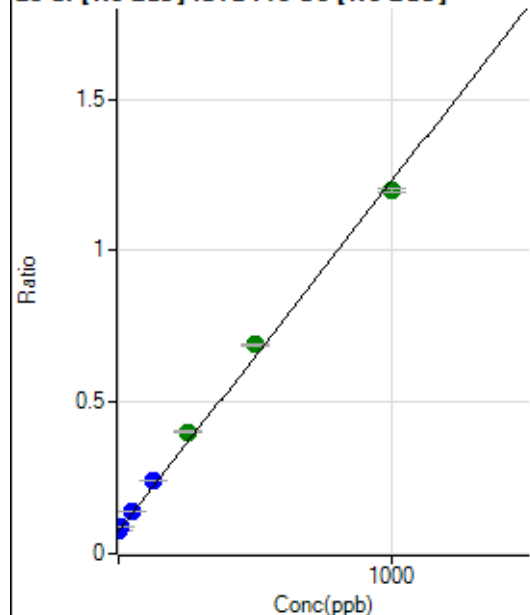
$$DL = 0.4946$$

$$BEC = 0.7832$$

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	299821.06	0.0737	P	0.7
2	☐	10.000	13.383	356289.41	0.0892	P	3.7
3	☐	50.000	55.893	553962.03	0.1383	P	0.6
4	☐	125.000	143.179	928867.43	0.2391	P	0.3
5	☐	250.000	284.644	1505086.07	0.4024	A	1.9
6	☐	500.000	532.409	2485195.85	0.6885	A	0.6
7	☐	1000.000	972.534	4285442.47	1.1968	A	1.0
8	☐			330423.13	0.0950	P	2.7

$$y = 0.0012 * x + 0.0737$$

R = 0.9985

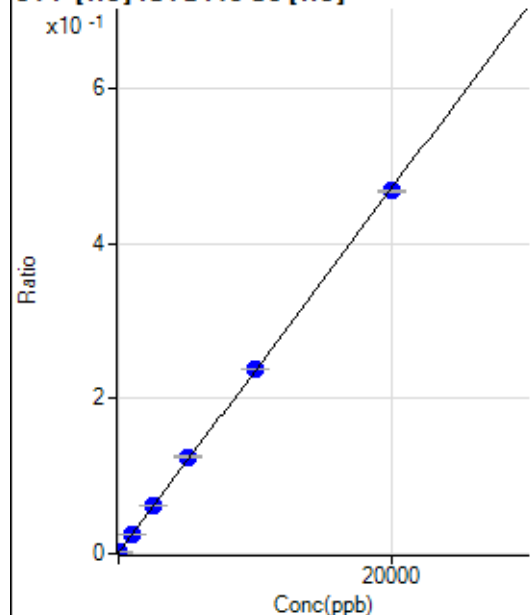
DL = 1.398

BEC = 63.85

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	-9.822	287.78	0.0009	P	2.3
2	☐	0.000	9.822	441.12	0.0013	P	6.4
3	☐	1000.000	1050.682	8330.11	0.0258	P	0.5
4	☐	2500.000	2586.305	19213.25	0.0619	P	1.6
5	☐	5000.000	5280.720	37777.72	0.1252	P	2.1
6	☐	10000.000	10107.878	71761.47	0.2387	P	0.4
7	☐	20000.000	19862.559	137903.36	0.4680	P	0.7
8	☐			287.79	0.0010	P	11.3

$$y = 2.3505E-005 * x + 0.0011$$

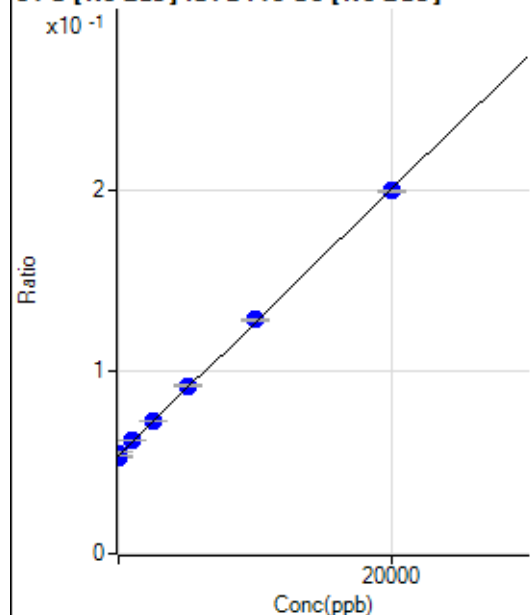
R = 0.9999

DL = 6.628

BEC = 46.52

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	-119.681	215880.21	0.0531	P	1.5
2	☐	0.000	119.681	219162.43	0.0548	P	2.4
3	☐	1000.000	1106.744	248708.42	0.0621	P	0.7
4	☐	2500.000	2551.609	282341.25	0.0727	P	0.7
5	☐	5000.000	5217.642	344898.87	0.0922	P	1.2
6	☐	10000.000	10195.542	464501.43	0.1287	P	0.7
7	☐	20000.000	19836.030	713828.07	0.1993	P	0.9
8	☐			174763.35	0.0503	P	1.3

$$y = 7.3291\text{E-}006 * x + 0.0540$$

$$R = 0.9998$$

$$DL = 439$$

$$BEC = 7364$$

Weight: <None>

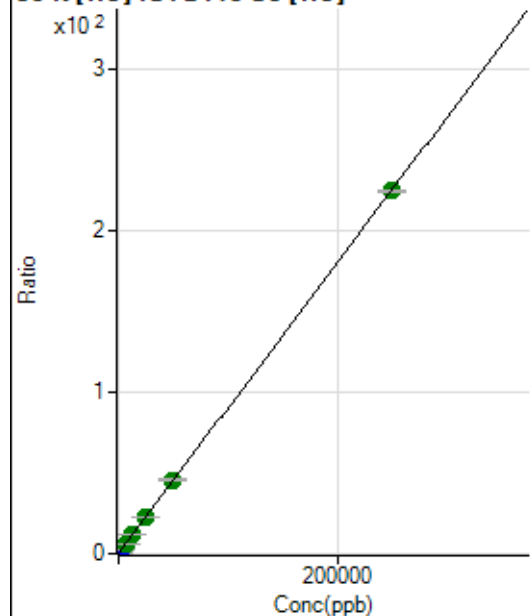
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57362.00	0.1720	P	0.9
2	☐	500.000	502.868	207567.77	0.6232	P	0.3
3	☐	2500.000	2798.003	866441.85	2.6826	P	0.7
4	☐	6250.000	6545.535	1876825.30	6.0453	A	1.4
5	☐	12500.000	13114.360	3601881.37	11.9395	A	0.7
6	☐	25000.000	25588.032	6954810.59	23.1322	A	0.1
7	☐	50000.000	50639.309	13440460.91	45.6107	A	0.8
8	☐	250000.00	249772.24	62843462.95	224.2932	A	0.6

$$y = 8.9730E-004 * x + 0.1720$$

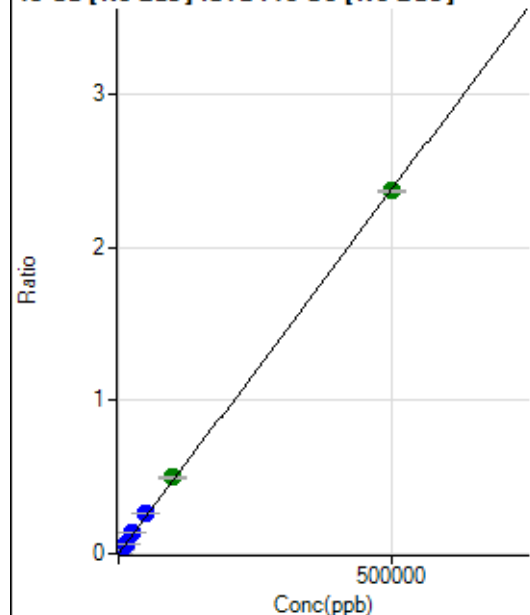
$$R = 1.0000$$

$$DL = 5.404$$

$$BEC = 191.6$$

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	1005.46	0.0002	P	4.5
2	☐	500.000	523.322	10931.75	0.0027	P	2.0
3	☐	5000.000	5599.889	107656.80	0.0269	P	0.4
4	☐	12500.000	13791.409	255729.38	0.0658	P	0.3
5	☐	25000.000	28062.530	499981.31	0.1337	P	0.4
6	☐	50000.000	55403.010	951654.88	0.2637	P	0.5
7	☐	100000.00	104413.40	1778428.71	0.4967	A	1.6
8	☐	500000.00	498385.58	8237865.46	2.3698	A	0.2

$$y = 4.7545\text{E-}006 * x + 2.4732\text{E-}004$$

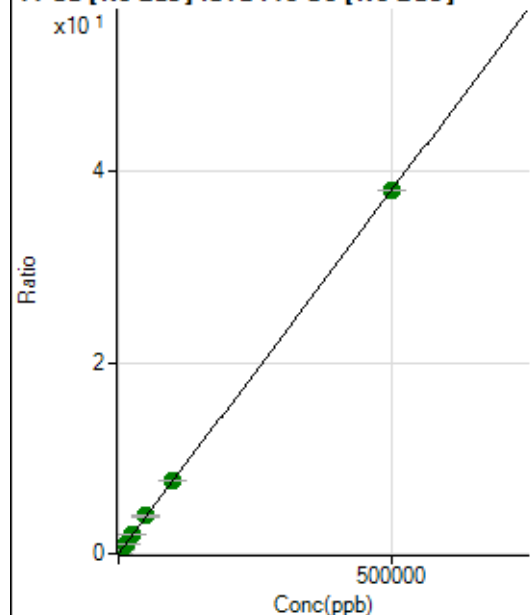
$$R = 0.9999$$

$$DL = 7.007$$

$$BEC = 52.02$$

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	26423.52	0.0065	P	2.4
2	☐	500.000	509.885	180664.74	0.0452	P	3.4
3	☐	5000.000	5285.499	1634114.56	0.4079	A	0.5
4	☐	12500.000	12758.241	3789721.86	0.9754	A	0.3
5	☐	25000.000	26134.123	7447708.08	1.9912	A	0.3
6	☐	50000.000	51871.313	14241273.94	3.9457	A	1.2
7	☐	100000.00	101009.62	27491182.57	7.6773	A	1.0
8	☐	500000.00	499544.91	131893725.1	37.9426	A	0.2

$$y = 7.5941\text{E-}005 * x + 0.0065$$

$$R = 1.0000$$

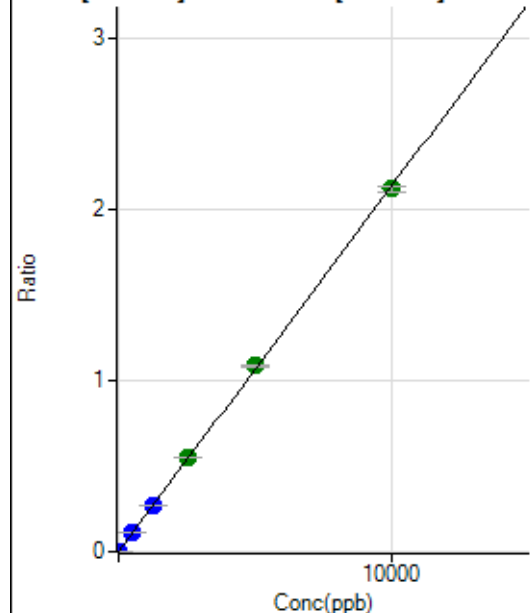
$$DL = 6.07$$

$$BEC = 85.57$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.22	0.0000	P	16.3
2	☐	5.000	5.137	4481.81	0.0011	P	5.1
3	☐	500.000	523.859	448217.83	0.1119	P	0.7
4	☐	1250.000	1284.100	1065377.40	0.2742	P	0.4
5	☐	2500.000	2584.042	2063819.47	0.5518	A	1.3
6	☐	5000.000	5088.731	3921848.73	1.0866	A	0.5
7	☐	10000.000	9929.168	7591346.55	2.1201	A	1.6
8	☐			1425.64	0.0004	P	18.7

$$y = 2.1352E-004 * x + 2.5137E-005$$

$$R = 0.9999$$

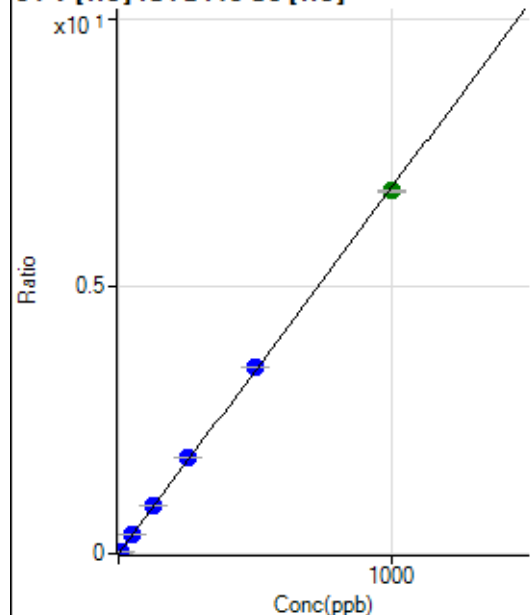
$$DL = 0.05753$$

$$BEC = 0.1177$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.45	0.0000	P	86.6
2	☐	5.000	4.683	10677.19	0.0321	P	1.1
3	☐	50.000	51.997	114918.72	0.3558	P	0.9
4	☐	125.000	129.252	274588.36	0.8844	P	0.5
5	☐	250.000	262.284	541404.69	1.7947	P	0.3
6	☐	500.000	509.949	1049092.95	3.4894	P	0.6
7	☐	1000.000	991.325	1998874.68	6.7832	A	0.7
8	☐			552.24	0.0020	P	10.3

$$y = 0.0068 * x + 1.3358E-005$$

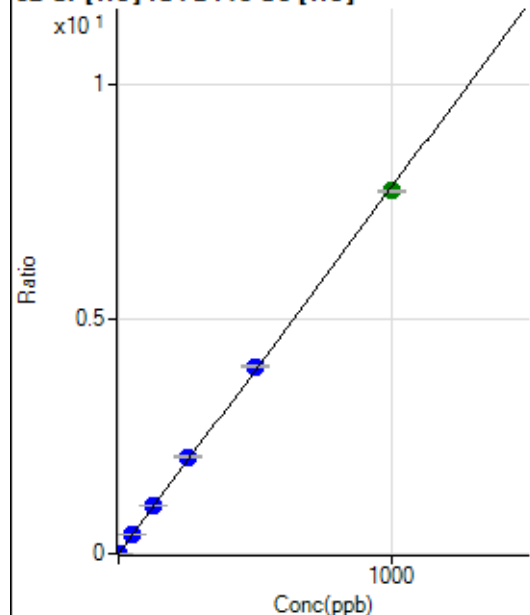
$$R = 0.9998$$

$$DL = 0.005073$$

$$BEC = 0.001952$$

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	1078.94	0.0032	P	4.2
2	☐	2.000	2.055	6414.74	0.0193	P	1.7
3	☐	50.000	53.101	134795.89	0.4173	P	1.0
4	☐	125.000	130.246	316350.53	1.0190	P	0.9
5	☐	250.000	264.312	622785.79	2.0645	P	0.4
6	☐	500.000	511.077	1199263.14	3.9889	P	0.5
7	☐	1000.000	990.072	2276197.07	7.7243	A	0.5
8	☐			6491.45	0.0232	P	4.3

$$y = 0.0078 * x + 0.0032$$

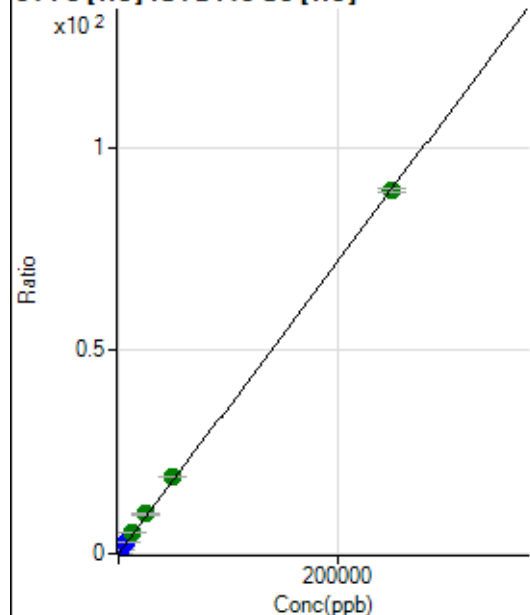
$$R = 0.9998$$

$$DL = 0.05214$$

$$BEC = 0.4148$$

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	1356.74	0.0041	P	9.4
2	☐	50.000	54.682	7887.70	0.0237	P	1.4
3	☐	2500.000	2960.760	344334.29	1.0661	P	1.0
4	☐	6250.000	7345.104	819284.99	2.6388	P	0.7
5	☐	12500.000	14044.212	1521048.27	5.0419	A	1.2
6	☐	25000.000	27111.312	2925094.75	9.7292	A	2.2
7	☐	50000.000	53283.101	5633566.51	19.1173	A	0.6
8	☐	250000.00	249023.05	25028458.24	89.3315	A	1.1

$$y = 3.5871E-004 * x + 0.0041$$

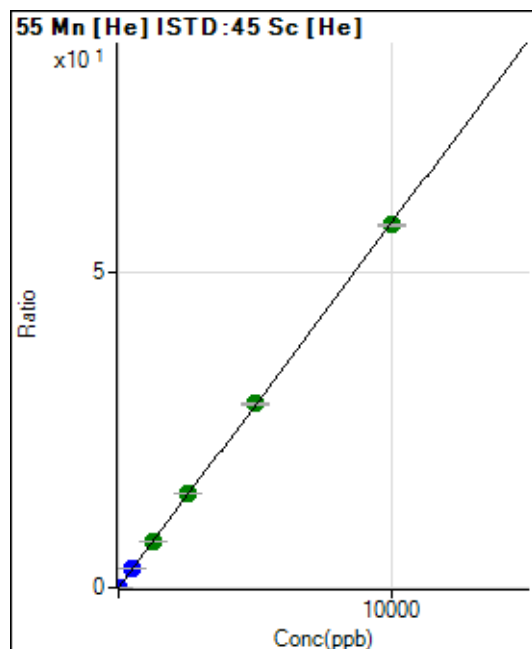
$$R = 0.9999$$

$$DL = 3.185$$

$$BEC = 11.34$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	183.34	0.0005	P	24.0
2	☐	1.000	1.001	2115.73	0.0064	P	4.6
3	☐	500.000	532.907	997826.00	3.0894	P	0.8
4	☐	1250.000	1280.076	2303704.95	7.4201	A	0.5
5	☐	2500.000	2590.265	4529421.35	15.0142	A	0.7
6	☐	5000.000	5052.880	8805556.47	29.2879	A	1.0
7	☐	10000.000	9945.589	16987400.30	57.6468	A	0.5
8	☐			8921.69	0.0318	P	1.5

$$y = 0.0058 * x + 5.4999E-004$$

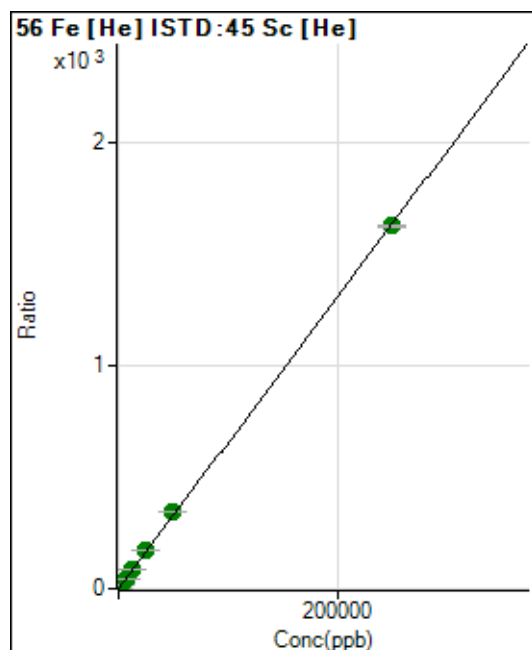
$$R = 0.9999$$

$$DL = 0.06838$$

$$BEC = 0.09489$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10422.59	0.0312	P	0.9
2	☐	50.000	54.580	128803.46	0.3867	P	1.0
3	☐	2500.000	2729.324	5751405.05	17.8067	A	0.7
4	☐	6250.000	6831.862	13823784.80	44.5256	A	0.9
5	☐	12500.000	13798.761	27119855.43	89.8994	A	0.1
6	☐	25000.000	26711.515	52313084.22	173.9972	A	0.4
7	☐	50000.000	52792.853	101326405.1	343.8591	A	1.0
8	☐	250000.00	249188.49	454730166.5	1,622.939	A	0.3

$$y = 0.0065 * x + 0.0312$$

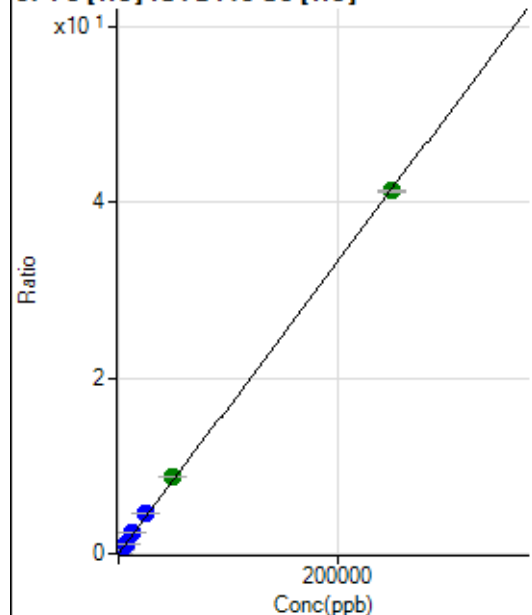
$$R = 0.9999$$

$$DL = 0.1255$$

$$BEC = 4.797$$

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	714.47	0.0021	P	3.7
2	☐	50.000	54.639	3730.50	0.0112	P	4.4
3	☐	2500.000	2856.213	153624.75	0.4756	P	0.6
4	☐	6250.000	7180.656	370234.56	1.1925	P	1.2
5	☐	12500.000	14521.105	726824.17	2.4094	P	0.6
6	☐	25000.000	28059.241	1399157.91	4.6537	P	0.1
7	☐	50000.000	52773.300	2578672.75	8.7507	A	0.5
8	☐	250000.00	249011.53	11566722.19	41.2823	A	0.3

$$y = 1.6578\text{E-}004 * x + 0.0021$$

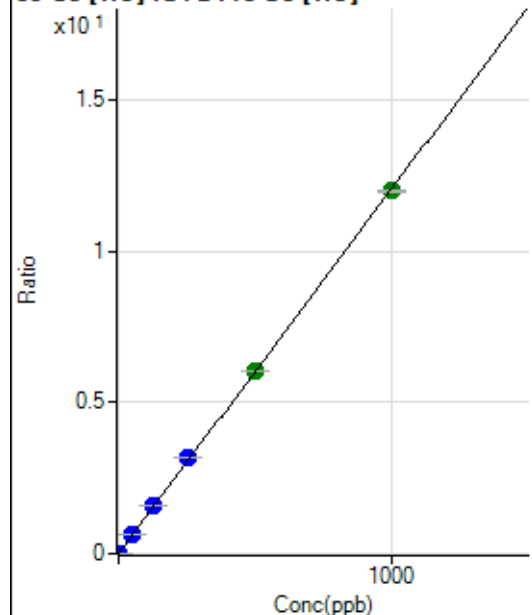
$$R = 0.9999$$

$$DL = 1.424$$

$$BEC = 12.92$$

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	38.89	0.0001	P	17.3
2	☐	1.000	0.966	3914.99	0.0118	P	5.2
3	☐	50.000	53.060	206577.13	0.6396	P	1.6
4	☐	125.000	131.329	491461.10	1.5830	P	0.7
5	☐	250.000	265.092	963872.08	3.1952	P	0.4
6	☐	500.000	500.257	1812791.95	6.0295	A	0.4
7	☐	1000.000	995.155	3534452.59	11.9943	A	0.9
8	☐			9529.80	0.0340	P	2.9

$$y = 0.0121 * x + 1.1650\text{E-}004$$

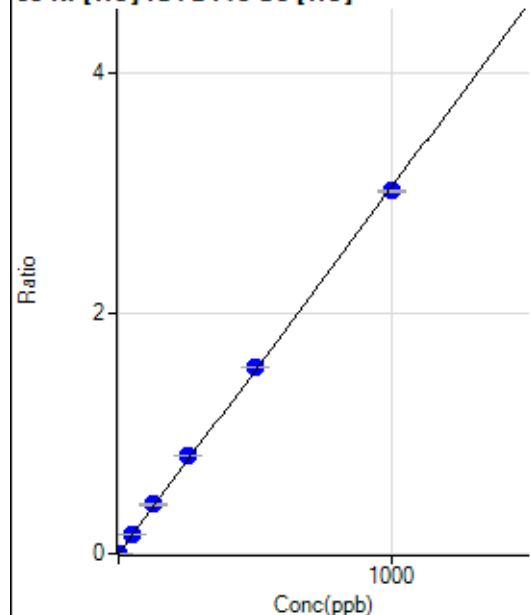
$$R = 0.9999$$

$$DL = 0.005024$$

$$BEC = 0.009666$$

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	264.45	0.0008	P	20.8
2	☐	1.000	1.096	1375.63	0.0041	P	10.0
3	☐	50.000	53.858	53215.04	0.1648	P	1.4
4	☐	125.000	133.822	126742.91	0.4082	P	0.8
5	☐	250.000	265.935	244490.38	0.8105	P	0.7
6	☐	500.000	508.879	466055.53	1.5501	P	0.5
7	☐	1000.000	990.281	888700.70	3.0158	P	0.7
8	☐			3014.78	0.0108	P	4.7

$$y = 0.0030 * x + 7.9206E-004$$

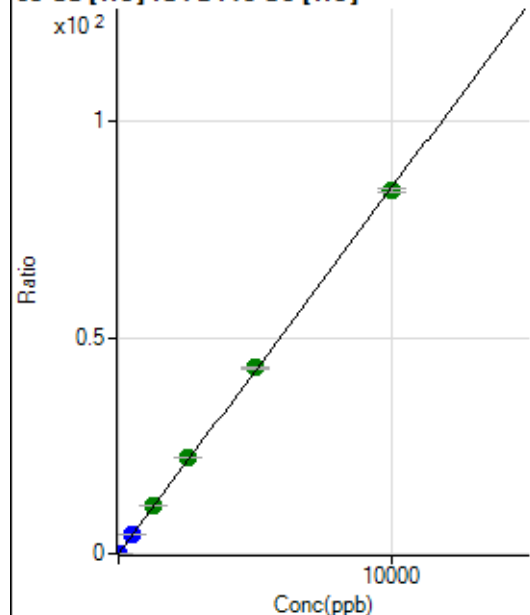
$$R = 0.9998$$

$$DL = 0.1622$$

$$BEC = 0.2601$$

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	982.26	0.0029	P	6.4
2	☐	2.000	2.111	6925.01	0.0208	P	1.7
3	☐	500.000	538.359	1471291.63	4.5553	P	0.6
4	☐	1250.000	1318.982	3463618.11	11.1562	A	0.7
5	☐	2500.000	2622.959	6691658.10	22.1825	A	0.6
6	☐	5000.000	5082.770	12922817.17	42.9825	A	0.5
7	☐	10000.000	9917.334	24712342.97	83.8632	A	1.0
8	☐			6181.35	0.0221	P	3.3

$$y = 0.0085 * x + 0.0029$$

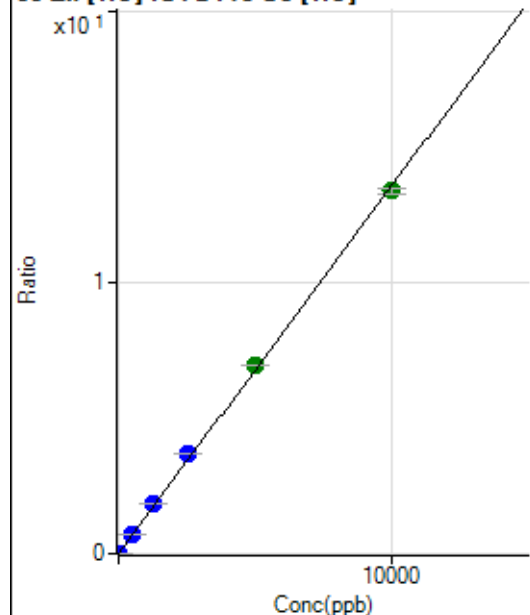
$$R = 0.9999$$

$$DL = 0.06731$$

$$BEC = 0.3481$$

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	517.79	0.0016	P	7.3
2	☐	2.000	2.149	1486.76	0.0045	P	7.0
3	☐	500.000	546.130	239470.00	0.7414	P	0.5
4	☐	1250.000	1346.146	566669.35	1.8252	P	0.8
5	☐	2500.000	2721.027	1112488.02	3.6878	P	0.4
6	☐	5000.000	5122.288	2086825.70	6.9409	A	0.4
7	☐	10000.000	9869.274	3940329.56	13.3718	A	1.3
8	☐			3807.19	0.0136	P	2.1

$$y = 0.0014 * x + 0.0016$$

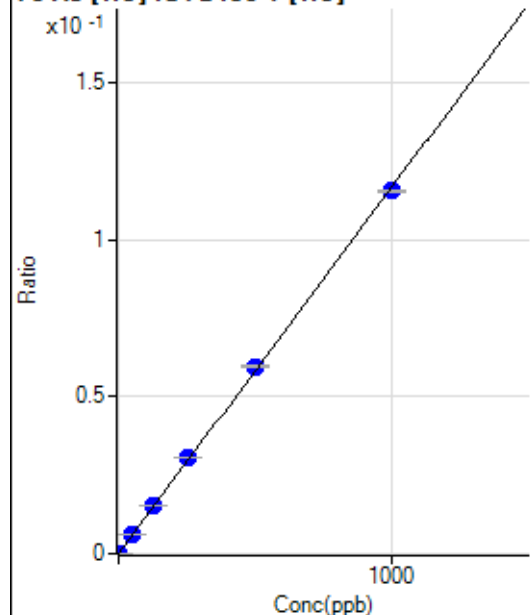
$$R = 0.9996$$

$$DL = 0.2519$$

$$BEC = 1.146$$

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	6.67	0.0000	P	86.6
2	☐	1.000	1.022	317.79	0.0001	P	13.1
3	☐	50.000	52.586	15609.41	0.0061	P	0.2
4	☐	125.000	130.885	37305.69	0.0153	P	2.4
5	☐	250.000	261.814	74325.86	0.0306	P	0.1
6	☐	500.000	510.331	143612.16	0.0596	P	0.8
7	☐	1000.000	991.016	277207.52	0.1157	P	0.8
8	☐			125.56	0.0001	P	15.2

$$y = 1.1678E-004 * x + 2.5593E-006$$

$$R = 0.9998$$

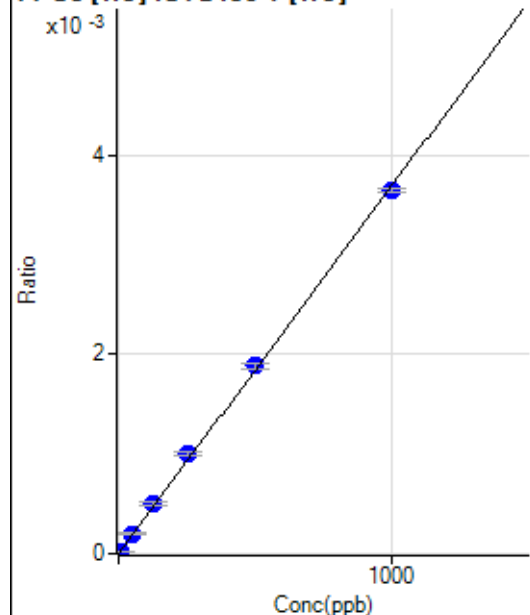
$$DL = 0.05695$$

$$BEC = 0.02191$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.021	57.78	0.0000	P	25.7
3	☐	50.000	53.245	498.90	0.0002	P	12.0
4	☐	125.000	136.135	1224.51	0.0005	P	8.9
5	☐	250.000	272.273	2440.23	0.0010	P	3.2
6	☐	500.000	511.253	4542.97	0.0019	P	3.6
7	☐	1000.000	987.246	8718.20	0.0036	P	1.1
8	☐			35.56	0.0000	P	38.0

$$y = 3.6870\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

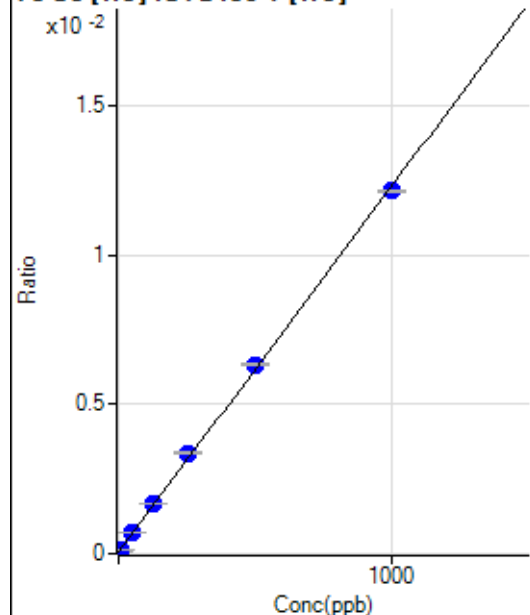
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.23	0.0001	P	22.5
2	☐	5.000	5.243	320.01	0.0001	P	6.2
3	☐	50.000	54.135	1832.35	0.0007	P	2.9
4	☐	125.000	131.662	4077.26	0.0017	P	1.8
5	☐	250.000	271.437	8221.24	0.0034	P	1.6
6	☐	500.000	511.450	15230.14	0.0063	P	1.0
7	☐	1000.000	987.875	29110.82	0.0122	P	0.8
8	☐			266.67	0.0001	P	1.3

$$y = 1.2244\text{E-}005 * x + 5.8505\text{E-}005$$

$$R = 0.9996$$

$$DL = 3.229$$

$$BEC = 4.778$$

Weight: <None>

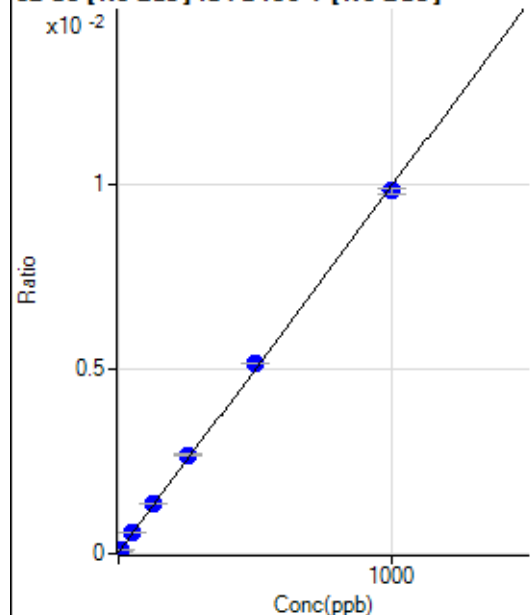
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20996.15		P	1.5
2	☐			20920.46		P	2.1
3	☐			20499.89		P	2.4
4	☐			19393.96		P	1.1
5	☐			18956.76		P	1.3
6	☐			18942.28		P	0.1
7	☐			18766.48		P	1.6
8	☐			20683.50		P	1.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			76.67		P	41.5
2	☐			48.89		P	49.3
3	☐			46.67		P	21.4
4	☐			61.11		P	8.3
5	☐			61.11		P	19.2
6	☐			98.89		P	7.8
7	☐			82.22		P	4.7
8	☐			405.57		P	10.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	446.56	0.0000	P	5.0
2	☐	5.000	4.868	1001.61	0.0001	P	4.1
3	☐	50.000	54.168	6675.08	0.0006	P	2.2
4	☐	125.000	131.668	15320.80	0.0013	P	1.5
5	☐	250.000	266.682	29828.90	0.0027	P	0.7
6	☐	500.000	515.158	56553.06	0.0051	P	0.4
7	☐	1000.000	987.209	106466.20	0.0098	P	1.4
8	☐			1017.62	0.0001	P	4.0

$$y = 9.9150\text{E-}006 * x + 3.8019\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.5738$$

$$BEC = 3.834$$

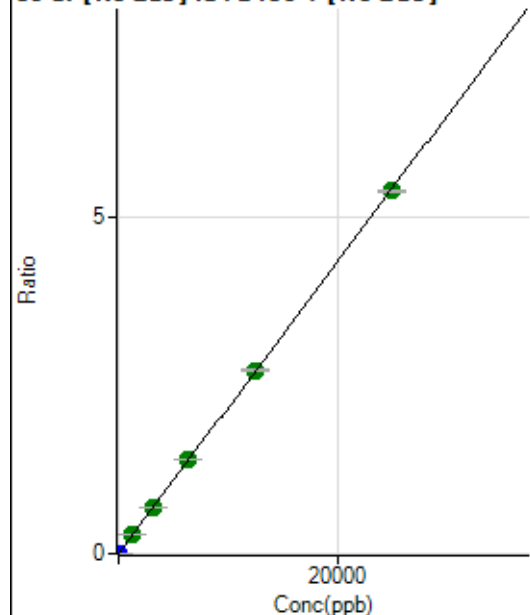
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			118.89		P	6.5
2	☐			117.78		P	16.1
3	☐			135.56		P	15.0
4	☐			111.11		P	18.3
5	☐			125.56		P	17.7
6	☐			126.67		P	16.4
7	☐			161.12		P	17.4
8	☐			154.45		P	16.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	275.56	0.0000	P	16.1
2	☐	1.000	0.923	2593.59	0.0002	P	4.7
3	☐	1250.000	1281.762	3227633.04	0.2781	A	0.1
4	☐	3125.000	3117.683	7711881.14	0.6763	A	1.0
5	☐	6250.000	6439.455	15534309.49	1.3968	A	1.0
6	☐	12500.000	12603.007	30044706.50	2.7338	A	1.1
7	☐	25000.000	24900.459	58523730.24	5.4013	A	0.7
8	☐			9052.97	0.0009	P	18.4

$$y = 2.1691\text{E-}004 * x + 2.3463\text{E-}005$$

$$R = 1.0000$$

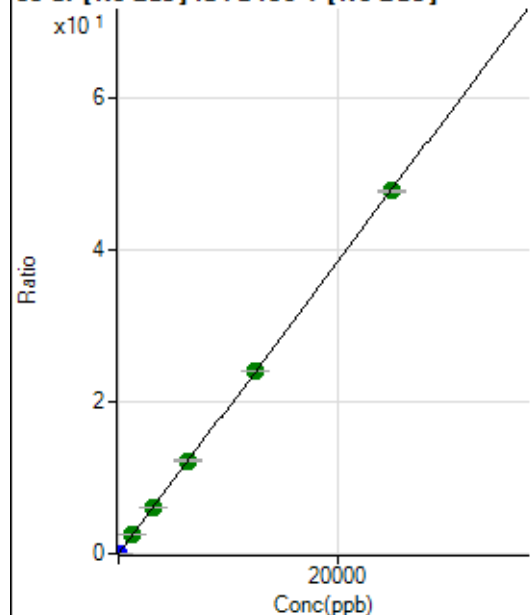
$$DL = 0.05218$$

$$BEC = 0.1082$$

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	365.56	0.0000	P	7.3
2	☐	1.000	0.936	21147.49	0.0018	P	2.6
3	☐	1250.000	1265.767	28134767.08	2.4238	A	0.5
4	☐	3125.000	3128.506	68314961.21	5.9906	A	0.1
5	☐	6250.000	6408.388	136465185.7	12.2710	A	1.1
6	☐	12500.000	12557.974	264276064.9	24.0465	A	0.3
7	☐	25000.000	24930.189	517242885.6	47.7372	A	0.8
8	☐			77628.32	0.0075	P	16.6

$$y = 0.0019 * x + 3.1123\text{E-}005$$

$$R = 1.0000$$

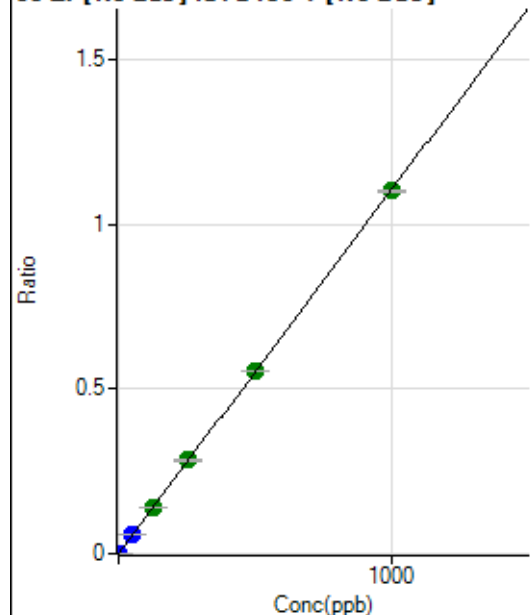
$$DL = 0.003572$$

$$BEC = 0.01625$$

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	434.46	0.0000	P	5.8
2	☐	1.000	0.905	12022.77	0.0010	P	2.6
3	☐	50.000	51.793	664490.16	0.0572	P	0.7
4	☐	125.000	126.407	1592614.32	0.1397	A	0.5
5	☐	250.000	257.369	3161963.84	0.2843	A	1.5
6	☐	500.000	501.664	6090234.01	0.5542	A	0.1
7	☐	1000.000	997.060	11933499.54	1.1013	A	0.3
8	☐			5793.42	0.0006	P	5.0

$$y = 0.0011 * x + 3.6991E-005$$

$$R = 1.0000$$

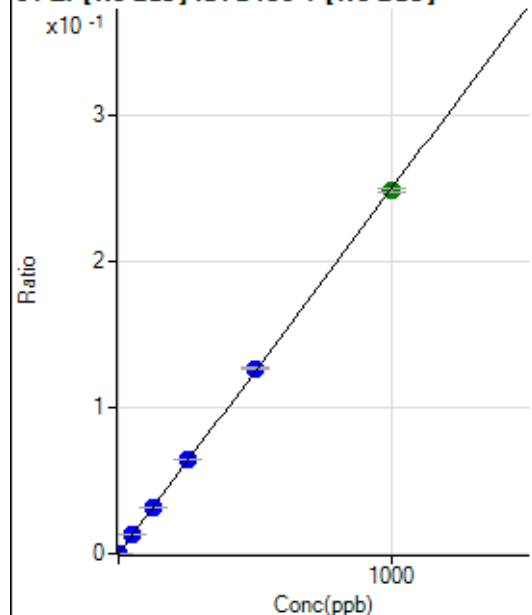
$$DL = 0.005827$$

$$BEC = 0.03349$$

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	104.45	0.0000	P	10.1
2	☐	1.000	0.919	2761.40	0.0002	P	6.1
3	☐	50.000	51.028	147894.02	0.0127	P	1.1
4	☐	125.000	125.903	358334.71	0.0314	P	0.7
5	☐	250.000	258.005	716000.50	0.0644	P	1.4
6	☐	500.000	507.840	1392712.06	0.1267	P	0.3
7	☐	1000.000	993.915	2687183.62	0.2480	A	1.2
8	☐			1264.51	0.0001	P	5.7

$$y = 2.4952E-004 * x + 8.8914E-006$$

$$R = 0.9999$$

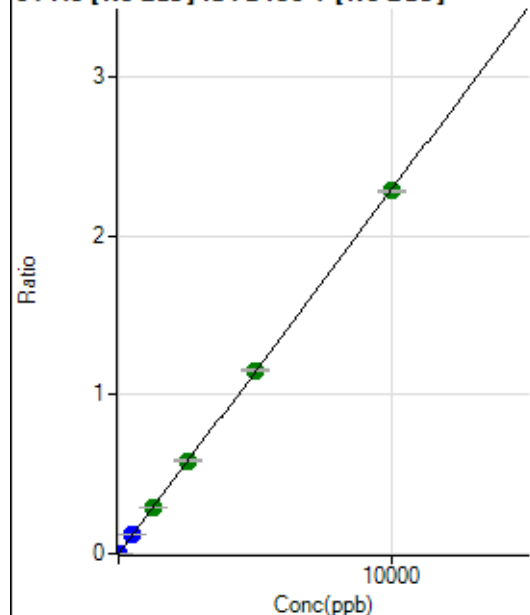
$$DL = 0.0108$$

$$BEC = 0.03563$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	135.56	0.0000	P	27.3
2	☐	5.000	5.447	14610.70	0.0013	P	4.7
3	☐	500.000	517.478	1376766.56	0.1186	P	0.3
4	☐	1250.000	1257.655	3286848.15	0.2882	A	1.0
5	☐	2500.000	2556.963	6516905.25	0.5860	A	1.2
6	☐	5000.000	5031.605	12673327.59	1.1532	A	0.8
7	☐	10000.000	9968.126	24753446.58	2.2845	A	0.4
8	☐			6768.31	0.0007	P	11.1

$$y = 2.2918\text{E-}004 * x + 1.1539\text{E-}005$$

$$R = 1.0000$$

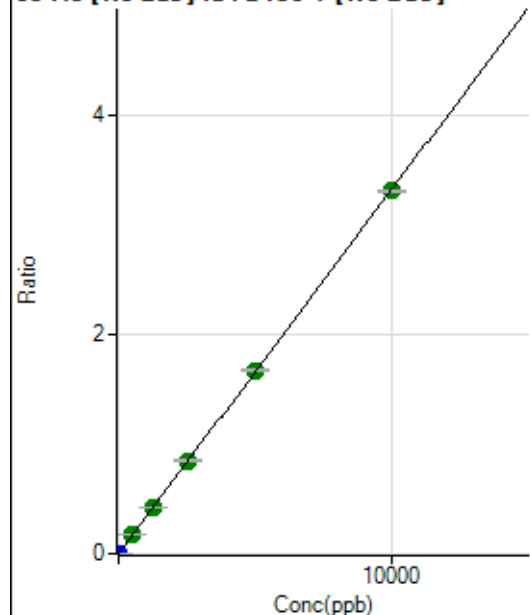
$$DL = 0.04128$$

$$BEC = 0.05035$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.66	0.0000	P	15.8
2	☐	5.000	4.725	18214.77	0.0016	P	3.3
3	☐	500.000	513.178	1975555.22	0.1702	A	1.8
4	☐	1250.000	1247.864	4719221.81	0.4138	A	0.3
5	☐	2500.000	2556.155	9427112.64	0.8477	A	1.2
6	☐	5000.000	5031.904	18339836.12	1.6688	A	0.8
7	☐	10000.000	9969.617	35824486.13	3.3063	A	0.4
8	☐			7534.25	0.0007	P	12.1

$$y = 3.3163\text{E-}004 * x + 3.1217\text{E-}006$$

$$R = 1.0000$$

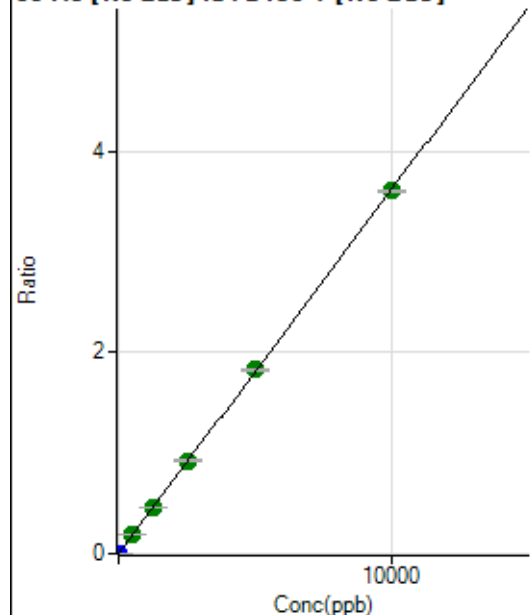
$$DL = 0.004468$$

$$BEC = 0.009413$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	86.67	0.0000	P	14.0
2	☐	5.000	4.756	20074.96	0.0017	P	3.1
3	☐	500.000	515.806	2169347.88	0.1869	A	1.2
4	☐	1250.000	1258.527	5199638.85	0.4560	A	0.4
5	☐	2500.000	2555.951	10297895.26	0.9260	A	1.3
6	☐	5000.000	5043.712	20082877.34	1.8273	A	0.3
7	☐	10000.000	9962.300	39107989.42	3.6094	A	0.9
8	☐			17028.97	0.0016	P	6.7

$$y = 3.6230\text{E-}004 * x + 7.3793\text{E-}006$$

$$R = 1.0000$$

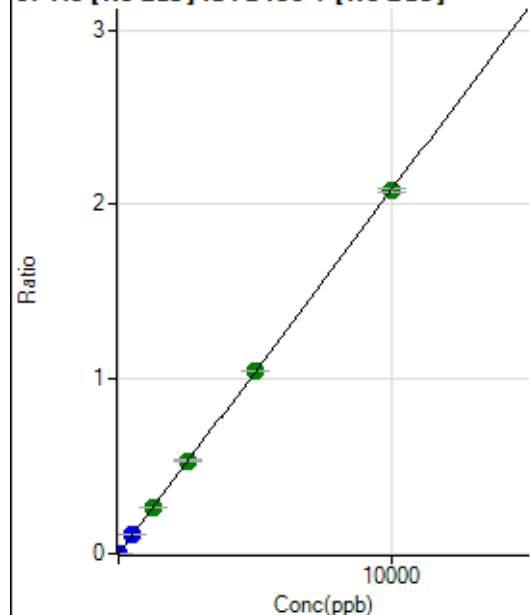
$$DL = 0.008536$$

$$BEC = 0.02037$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24.45	0.0000	P	92.9
2	☐	5.000	4.748	11495.75	0.0010	P	5.7
3	☐	500.000	520.593	1259096.45	0.1085	P	0.9
4	☐	1250.000	1254.394	2980441.03	0.2614	A	0.5
5	☐	2500.000	2556.233	5922992.34	0.5326	A	1.1
6	☐	5000.000	5019.017	11492858.58	1.0457	A	0.5
7	☐	10000.000	9974.854	22518910.22	2.0783	A	0.9
8	☐			4717.49	0.0005	P	14.4

$$y = 2.0835\text{E-}004 * x + 2.0827\text{E-}006$$

$$R = 1.0000$$

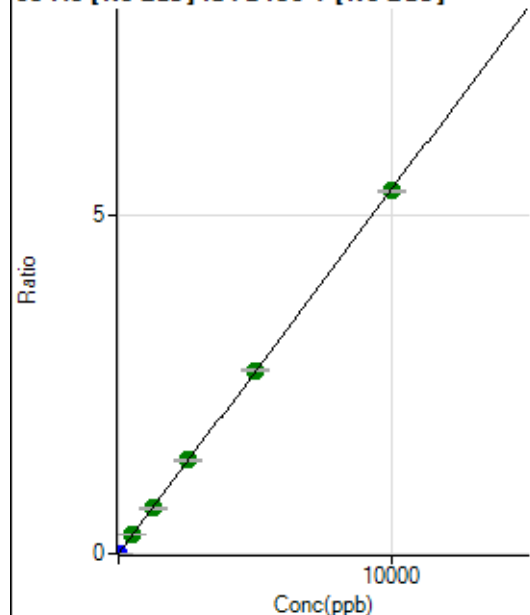
$$DL = 0.02785$$

$$BEC = 0.009996$$

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	47.78	0.0000	P	10.5
2	☐	5.000	4.663	29084.52	0.0025	P	3.0
3	☐	500.000	505.446	3149285.72	0.2713	A	1.0
4	☐	1250.000	1250.849	7656551.21	0.6714	A	1.9
5	☐	2500.000	2569.107	15335901.99	1.3790	A	1.0
6	☐	5000.000	5037.684	29718489.56	2.7041	A	0.5
7	☐	10000.000	9963.503	57948807.47	5.3481	A	0.4
8	☐			11806.10	0.0011	P	14.8

$$y = 5.3677\text{E-}004 * x + 4.0672\text{E-}006$$

$$R = 1.0000$$

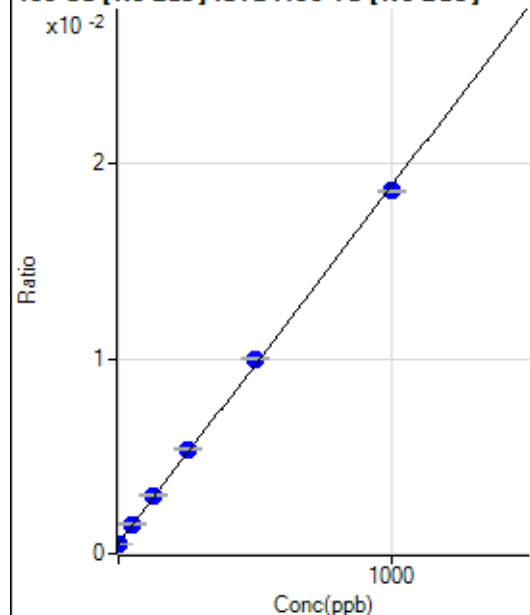
$$DL = 0.002388$$

$$BEC = 0.007577$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5625.59	0.0005	P	3.7
2	☐	1.000	0.429	5613.36	0.0005	P	2.9
3	☐	50.000	54.865	16430.53	0.0015	P	3.1
4	☐	125.000	134.791	32124.39	0.0030	P	1.5
5	☐	250.000	264.646	57554.67	0.0054	P	0.7
6	☐	500.000	517.071	106517.55	0.0100	P	0.7
7	☐	1000.000	986.336	197372.71	0.0186	P	0.6
8	☐			4808.61	0.0005	P	0.2

$$y = 1.8344\text{E-}005 * x + 5.1814\text{E-}004$$

$$R = 0.9996$$

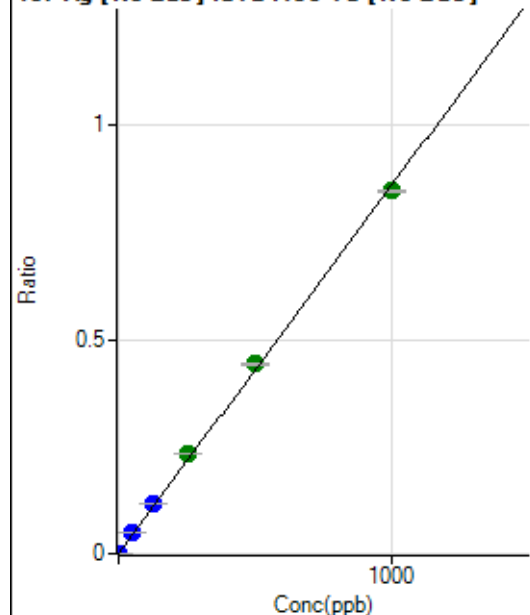
$$DL = 3.122$$

$$BEC = 28.25$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0000	P	24.4
2	☐	1.000	0.993	9186.32	0.0009	P	0.7
3	☐	50.000	57.055	528204.00	0.0490	P	2.7
4	☐	125.000	137.292	1266732.47	0.1179	P	0.7
5	☐	250.000	270.933	2492748.91	0.2327	A	0.3
6	☐	500.000	514.902	4708883.30	0.4422	A	1.8
7	☐	1000.000	985.427	8975112.23	0.8464	A	0.9
8	☐			2343.55	0.0002	P	10.0

$$y = 8.5887\text{E-}004 * x + 7.4666\text{E-}006$$

$$R = 0.9996$$

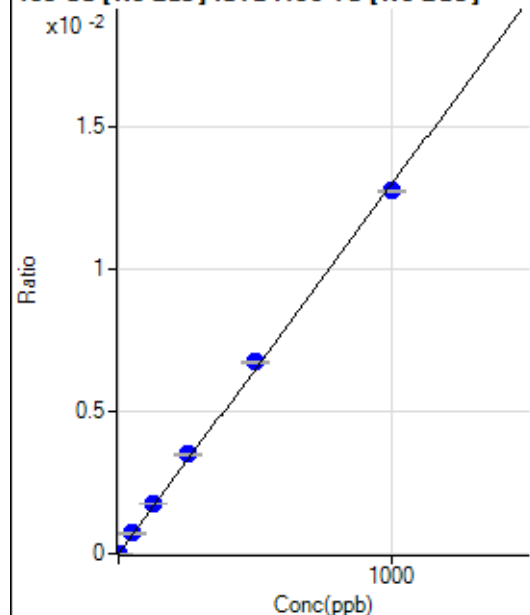
$$DL = 0.006375$$

$$BEC = 0.008693$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.45	0.0000	P	47.7
2	☐	1.000	0.998	152.23	0.0000	P	11.4
3	☐	50.000	54.674	7666.53	0.0007	P	0.9
4	☐	125.000	136.208	19011.45	0.0018	P	0.1
5	☐	250.000	268.844	37403.73	0.0035	P	0.6
6	☐	500.000	520.807	72016.44	0.0068	P	1.0
7	☐	1000.000	983.251	135389.99	0.0128	P	0.7
8	☐			91.11	0.0000	P	19.5

$$y = 1.2983\text{E-}005 * x + 1.3285\text{E-}006$$

$$R = 0.9994$$

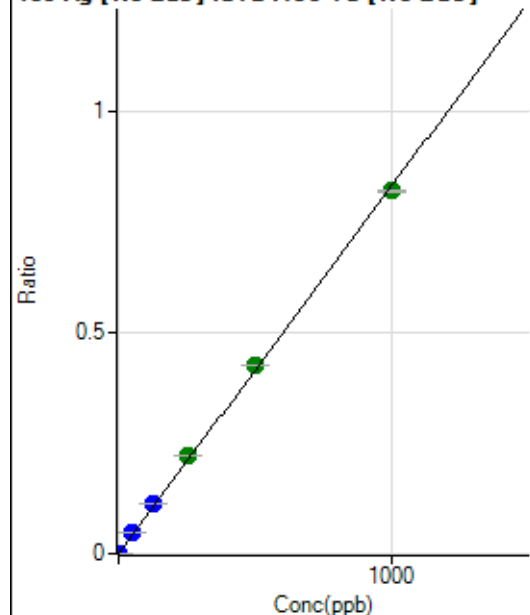
$$DL = 0.1464$$

$$BEC = 0.1023$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	24.1
2	☐	1.000	1.003	8897.24	0.0008	P	3.6
3	☐	50.000	56.257	502872.23	0.0467	P	2.7
4	☐	125.000	135.728	1209172.12	0.1126	P	1.1
5	☐	250.000	267.929	2380387.45	0.2222	A	0.1
6	☐	500.000	512.893	4529645.00	0.4254	A	0.6
7	☐	1000.000	987.418	8684410.98	0.8189	A	0.4
8	☐			2122.40	0.0002	P	12.1

$$y = 8.2938\text{E-}004 * x + 1.9450\text{E-}006$$

$$R = 0.9997$$

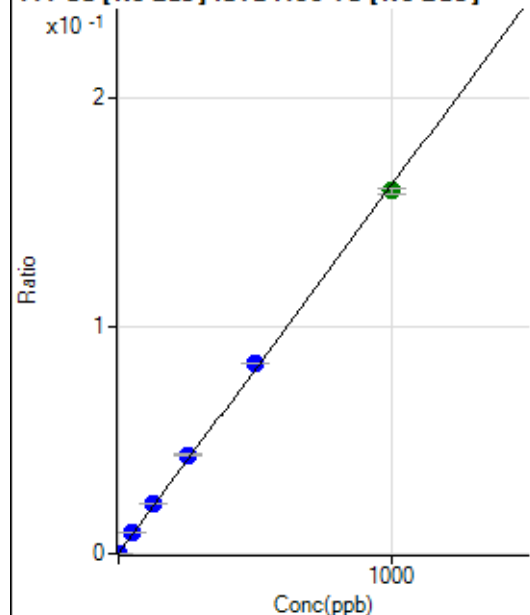
$$DL = 0.001696$$

$$BEC = 0.002345$$

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	1120.56	0.0001	P	3.5
2	☐	1.000	1.076	2957.37	0.0003	P	8.4
3	☐	50.000	55.973	98773.11	0.0092	P	3.0
4	☐	125.000	135.348	236471.86	0.0220	P	1.4
5	☐	250.000	268.144	466133.59	0.0435	P	0.6
6	☐	500.000	518.187	894418.24	0.0840	P	0.3
7	☐	1000.000	984.778	1691878.54	0.1595	A	1.4
8	☐			1893.55	0.0002	P	3.4

$$y = 1.6190\text{E-}004 * x + 1.0321\text{E-}004$$

$$R = 0.9996$$

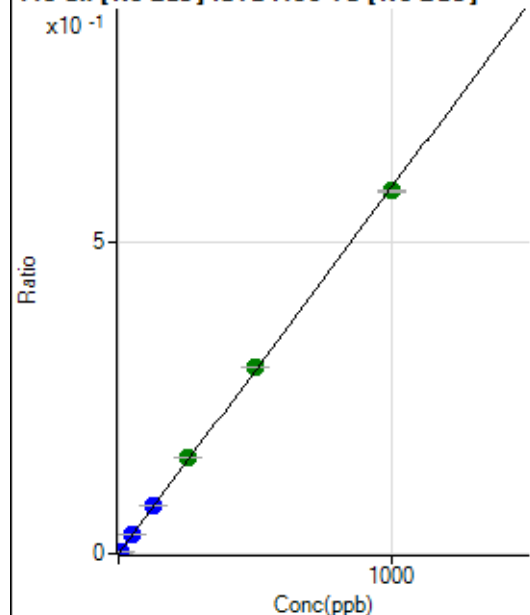
$$DL = 0.06603$$

$$BEC = 0.6375$$

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	800.03	0.0001	P	4.4
2	☐	5.000	4.957	31851.84	0.0030	P	3.5
3	☐	50.000	53.256	337964.66	0.0314	P	1.5
4	☐	125.000	129.810	819764.92	0.0763	P	1.2
5	☐	250.000	262.349	1651436.59	0.1542	A	0.8
6	☐	500.000	510.698	3194842.52	0.3000	A	0.3
7	☐	1000.000	990.800	6172086.78	0.5820	A	0.5
8	☐			3753.86	0.0004	P	5.2

$$y = 5.8736\text{E-}004 * x + 7.3702\text{E-}005$$

$$R = 0.9998$$

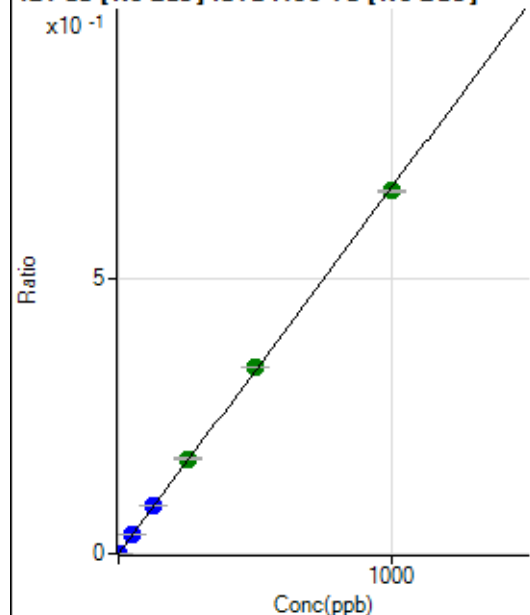
$$DL = 0.01653$$

$$BEC = 0.1255$$

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	42.22	0.0000	P	25.6
2	☐	2.000	1.989	14144.81	0.0013	P	4.7
3	☐	50.000	52.987	379688.36	0.0352	P	2.9
4	☐	125.000	129.390	924045.79	0.0860	P	0.7
5	☐	250.000	259.458	1847759.80	0.1725	A	1.0
6	☐	500.000	511.200	3618887.66	0.3399	A	0.2
7	☐	1000.000	991.337	6988890.17	0.6591	A	0.8
8	☐			3843.89	0.0004	P	3.0

$$y = 6.6481\text{E-}004 * x + 3.8916\text{E-}006$$

$$R = 0.9999$$

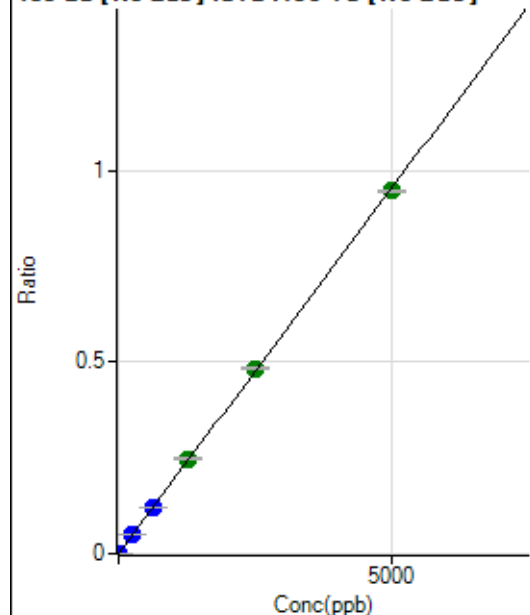
$$DL = 0.004499$$

$$BEC = 0.005854$$

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	24.44	0.0000	P	20.4
2	☐	10.000	9.388	19123.99	0.0018	P	2.3
3	☐	250.000	257.424	528938.27	0.0491	P	2.1
4	☐	625.000	628.340	1286649.52	0.1198	P	0.9
5	☐	1250.000	1299.314	2653224.54	0.2477	A	0.6
6	☐	2500.000	2539.884	5155499.19	0.4842	A	1.3
7	☐	5000.000	4966.942	10040875.54	0.9468	A	0.4
8	☐			5645.62	0.0006	P	5.3

$$y = 1.9063\text{E-}004 * x + 2.2501\text{E-}006$$

$$R = 0.9999$$

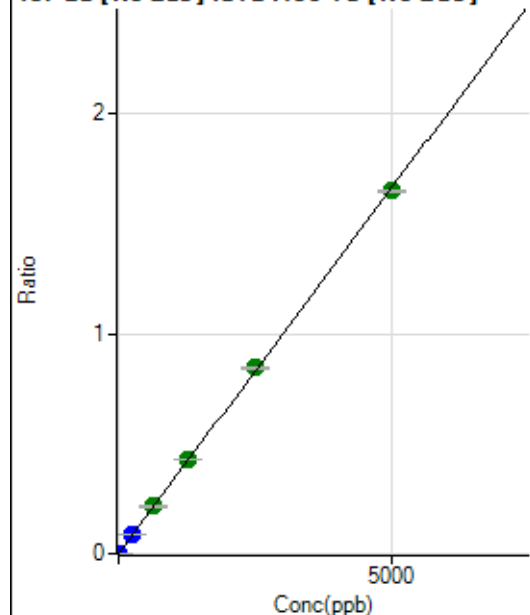
$$DL = 0.007207$$

$$BEC = 0.0118$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0000	P	37.3
2	☐	10.000	9.422	33428.13	0.0031	P	2.8
3	☐	250.000	257.837	922891.18	0.0856	P	2.5
4	☐	625.000	646.393	2305645.28	0.2147	A	2.0
5	☐	1250.000	1297.580	4616045.91	0.4309	A	0.4
6	☐	2500.000	2545.542	9001484.45	0.8454	A	0.6
7	☐	5000.000	4962.269	17475811.27	1.6479	A	0.7
8	☐			9616.66	0.0010	P	4.9

$$y = 3.3209\text{E-}004 * x + 3.4845\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01174$$

$$BEC = 0.01049$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			11.11		P	45.8
3	☐			66.67		P	13.2
4	☐			157.78		P	23.4
5	☐			313.34		P	2.8
6	☐			560.02		P	8.4
7	☐			1046.72		P	3.9
8	☐			341.12		P	7.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			8.89		P	78.1
3	☐			23.33		P	37.8
4	☐			18.89		P	27.0
5	☐			55.56		P	13.9
6	☐			101.11		P	10.1
7	☐			177.78		P	20.6
8	☐			148.89		P	20.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	132.
2	☐			7.78		P	65.5
3	☐			36.67		P	18.2
4	☐			76.67		P	52.7
5	☐			126.67		P	23.4
6	☐			293.34		P	10.4
7	☐			602.24		P	5.8
8	☐			1696.79		P	3.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			11.11		P	75.5
3	☐			37.78		P	5.1
4	☐			83.33		P	12.0
5	☐			152.23		P	12.1
6	☐			283.34		P	5.1
7	☐			531.13		P	5.8
8	☐			1045.61		P	10.3

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

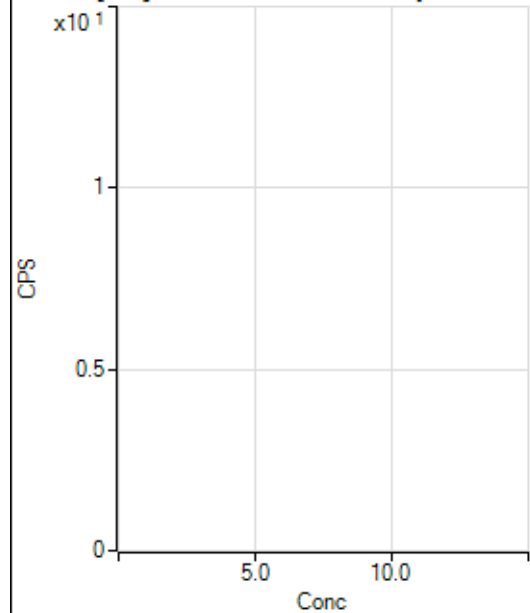
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	40.1
2	☐			72.22		P	25.4
3	☐			91.11		P	12.8
4	☐			110.00		P	18.4
5	☐			170.00		P	17.6
6	☐			267.78		P	10.7
7	☐			445.57		P	8.3
8	☐			1827.92		P	2.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			307.78		P	6.5
2	☐			318.90		P	3.2
3	☐			343.34		P	18.2
4	☐			296.67		P	13.2
5	☐			352.23		P	3.3
6	☐			407.79		P	5.7
7	☐			508.90		P	6.9
8	☐			1444.53		P	2.8

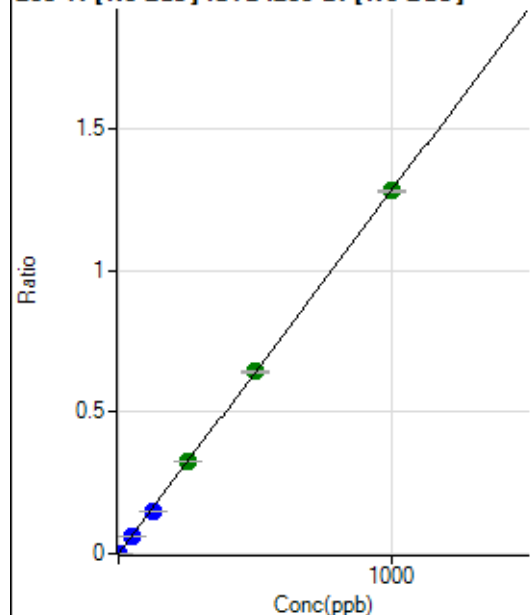
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.67		P	19.2
2	☐			84.44		P	2.3
3	☐			82.22		P	29.9
4	☐			102.22		P	19.1
5	☐			111.11		P	15.1
6	☐			138.89		P	7.7
7	☐			147.78		P	18.4
8	☐			293.34		P	10.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	27.7
2	☐			37.78		P	10.2
3	☐			37.78		P	10.2
4	☐			44.44		P	42.7
5	☐			66.67		P	26.5
6	☐			65.56		P	19.2
7	☐			87.78		P	15.8
8	☐			155.56		P	14.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	155.56	0.0000	P	21.9
2	☐	1.000	0.857	7071.89	0.0011	P	2.0
3	☐	50.000	47.326	382098.05	0.0607	P	2.0
4	☐	125.000	116.839	943337.76	0.1498	P	0.6
5	☐	250.000	254.287	2028861.85	0.3260	A	0.8
6	☐	500.000	501.338	3951004.59	0.6427	A	0.3
7	☐	1000.000	999.413	7658005.30	1.2812	A	0.8
8	☐			1460.10	0.0003	P	20.9

$$y = 0.0013 * x + 2.4547E-005$$

$$R = 0.9999$$

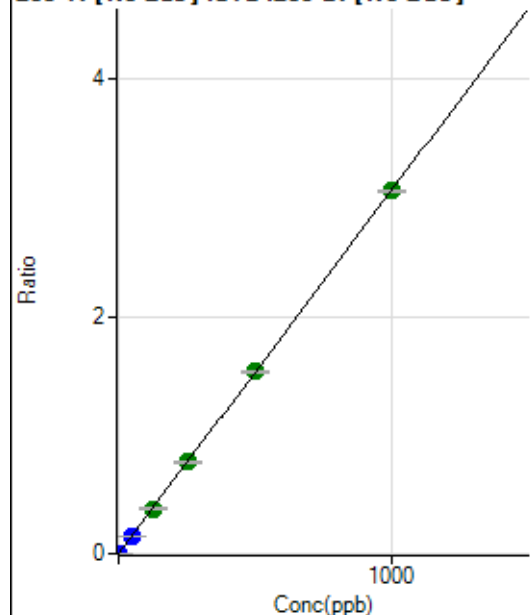
$$DL = 0.01258$$

$$BEC = 0.01915$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	324.45	0.0001	P	4.9
2	☐	1.000	0.875	17186.51	0.0027	P	3.6
3	☐	50.000	47.149	909728.75	0.1445	P	0.6
4	☐	125.000	123.586	2384496.94	0.3786	A	1.7
5	☐	250.000	253.460	4831964.51	0.7765	A	2.1
6	☐	500.000	501.508	9444271.73	1.5363	A	1.1
7	☐	1000.000	998.700	18286778.75	3.0593	A	0.7
8	☐			3469.38	0.0007	P	18.3

$$y = 0.0031 * x + 5.1302E-005$$

$$R = 1.0000$$

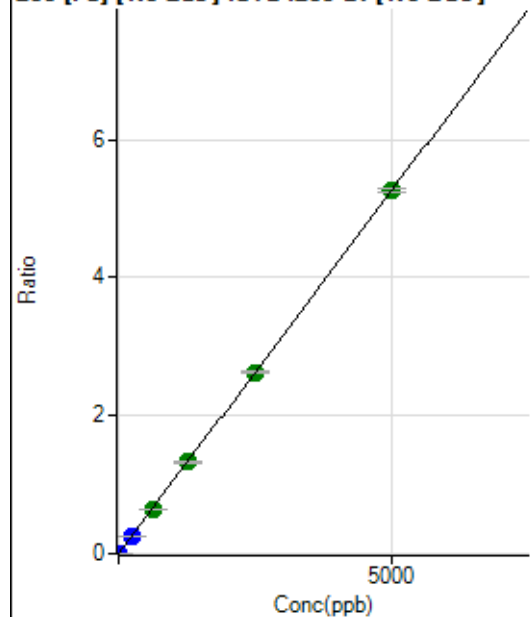
$$DL = 0.002445$$

$$BEC = 0.01675$$

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	366.68	0.0001	P	10.8
2	☐	1.000	0.856	6030.29	0.0010	P	3.4
3	☐	250.000	237.478	1572260.43	0.2497	P	0.6
4	☐	625.000	619.054	4098588.90	0.6508	A	0.2
5	☐	1250.000	1265.656	8280357.72	1.3306	A	1.5
6	☐	2500.000	2496.787	16135554.62	2.6248	A	0.8
7	☐	5000.000	4999.062	31412418.14	5.2552	A	1.2
8	☐			13490.16	0.0026	P	7.0

$$y = 0.0011 * x + 5.8057E-005$$

$$R = 1.0000$$

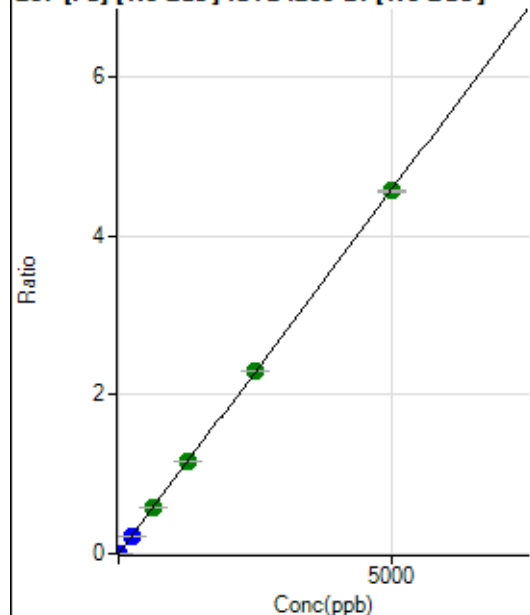
$$DL = 0.01782$$

$$BEC = 0.05523$$

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	327.79	0.0001	P	20.8
2	☐	1.000	0.855	5246.61	0.0008	P	3.8
3	☐	250.000	236.087	1359623.19	0.2159	P	0.9
4	☐	625.000	625.868	3604451.06	0.5724	A	0.6
5	☐	1250.000	1267.060	7211245.86	1.1587	A	0.9
6	☐	2500.000	2515.580	14141903.26	2.3004	A	0.1
7	☐	5000.000	4988.532	27267266.26	4.5618	A	0.8
8	☐			11474.95	0.0022	P	6.3

$$y = 9.1445E-004 * x + 5.1728E-005$$

$$R = 1.0000$$

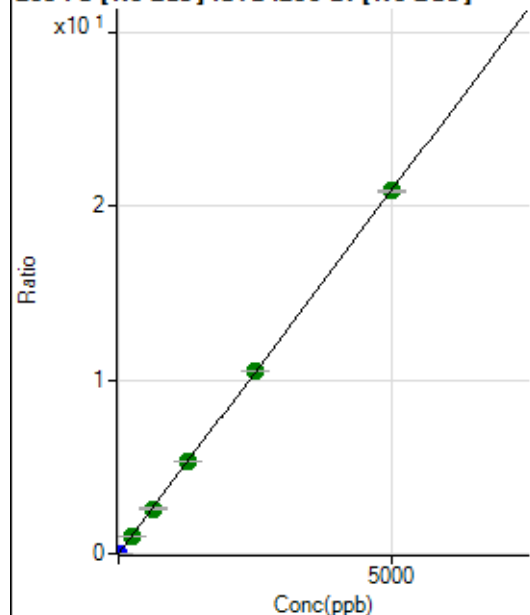
$$DL = 0.0353$$

$$BEC = 0.05657$$

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	1547.83	0.0002	P	4.5
2	☐	1.000	0.855	24015.19	0.0038	P	2.5
3	☐	250.000	243.415	6406622.53	1.0175	A	0.9
4	☐	625.000	621.451	16356349.83	2.5973	A	0.7
5	☐	1250.000	1264.062	32878158.47	5.2829	A	0.7
6	☐	2500.000	2506.486	64395613.48	10.4751	A	0.1
7	☐	5000.000	4994.014	124750631.2	20.8706	A	0.5
8	☐			52742.50	0.0102	P	6.2

$$y = 0.0042 * x + 2.4478E-004$$

$$R = 1.0000$$

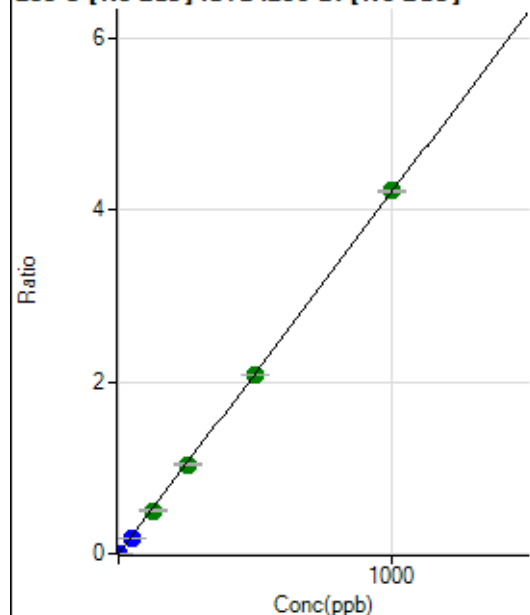
$$DL = 0.007943$$

$$BEC = 0.05857$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.66	0.0000	P	87.1
2	☐	1.000	0.836	22103.94	0.0035	P	3.4
3	☐	50.000	44.759	1184224.98	0.1881	P	1.7
4	☐	125.000	119.301	3157368.95	0.5013	A	0.9
5	☐	250.000	247.094	6462399.49	1.0384	A	0.8
6	☐	500.000	495.074	12789835.92	2.0805	A	0.4
7	☐	1000.000	1004.164	25223816.29	4.2199	A	0.4
8	☐			8104.78	0.0016	P	9.0

$$y = 0.0042 * x + 1.0572E-006$$

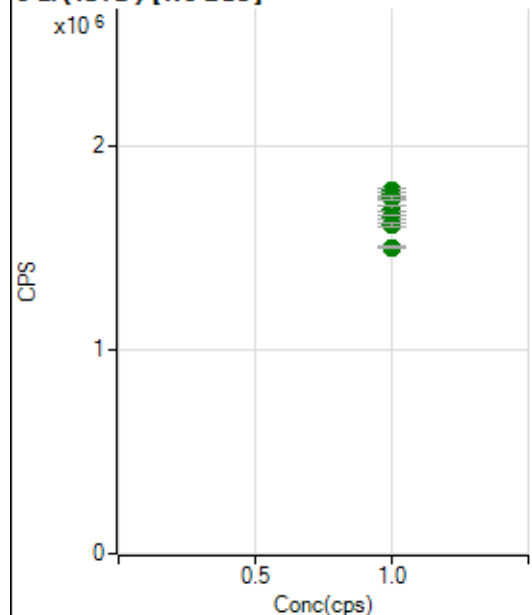
$$R = 1.0000$$

$$DL = 0.0006577$$

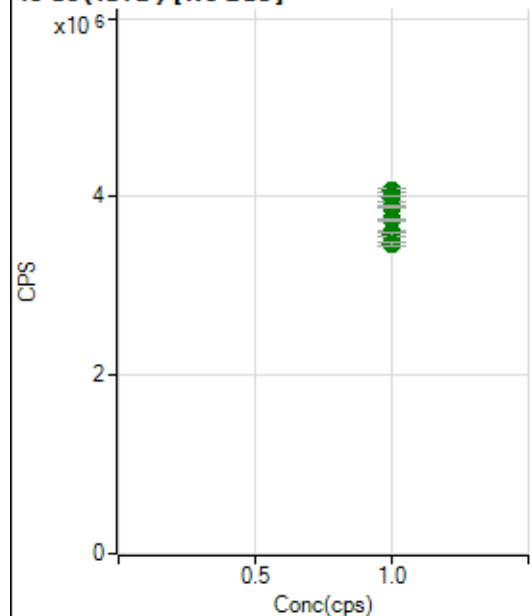
$$BEC = 0.0002516$$

Weight: <None>

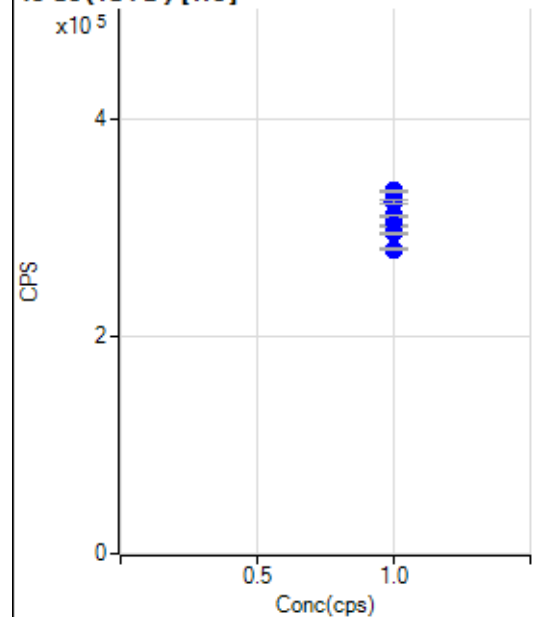
Min Conc: 0

6 Li (ISTD) [No Gas]

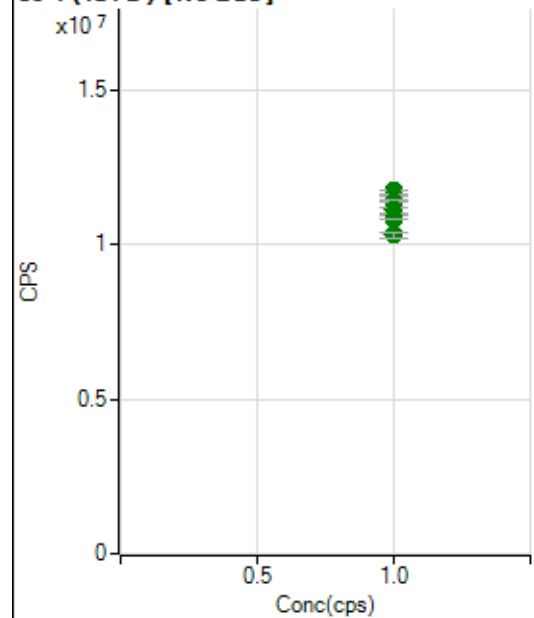
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1781616.74		A	1.1
2	☐	1.000		1762838.67		A	1.5
3	☐	1.000		1749392.60		A	0.3
4	☐	1.000		1746081.99		A	1.5
5	☐	1.000		1693169.11		A	1.8
6	☐	1.000		1650309.52		A	1.0
7	☐	1.000		1612921.21		A	1.1
8	☐	1.000		1505863.40		A	0.9

45 Sc (ISTD) [No Gas]

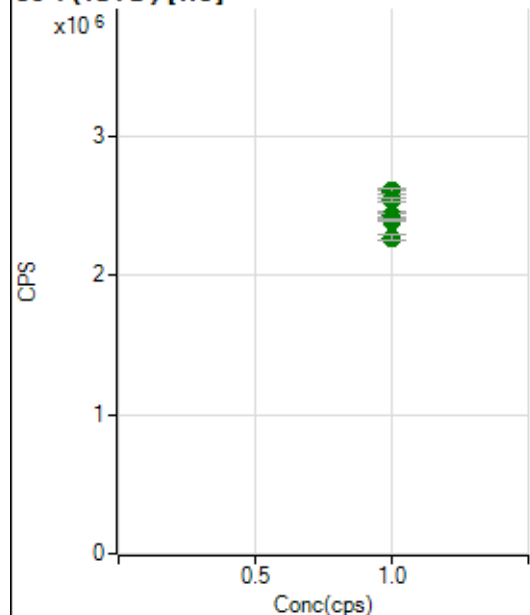
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4066680.53		A	1.1
2	☐	1.000		3997857.82		A	2.9
3	☐	1.000		4006298.86		A	0.1
4	☐	1.000		3885400.12		A	0.5
5	☐	1.000		3740462.69		A	1.0
6	☐	1.000		3609445.74		A	0.4
7	☐	1.000		3581025.43		A	1.0
8	☐	1.000		3476172.65		A	1.4

45 Sc (ISTD) [He]

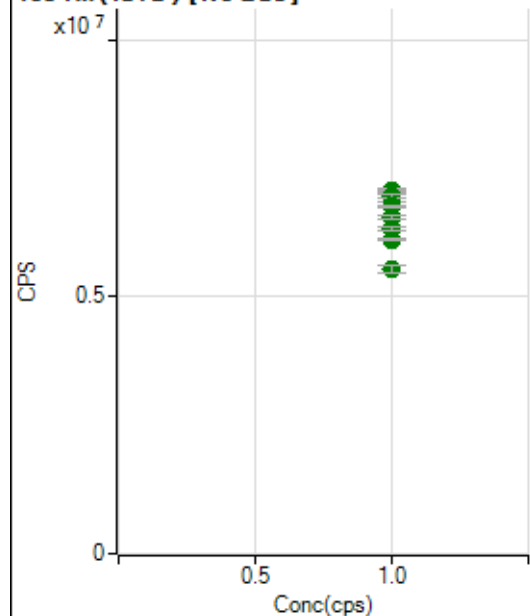
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		333609.11		P	0.9
2	☐	1.000		333080.66		P	0.3
3	☐	1.000		323002.48		P	1.2
4	☐	1.000		310472.92		P	0.4
5	☐	1.000		301669.22		P	0.6
6	☐	1.000		300655.75		P	0.3
7	☐	1.000		294687.88		P	0.7
8	☐	1.000		280191.04		P	0.9

89 Y (ISTD) [No Gas]

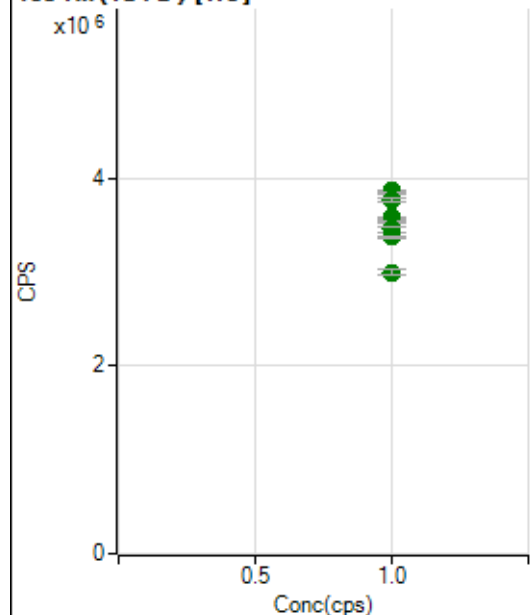
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11745677.88		A	0.2
2	☐	1.000		11607909.41		A	3.1
3	☐	1.000		11607903.99		A	0.6
4	☐	1.000		11403613.02		A	0.7
5	☐	1.000		11121783.86		A	1.4
6	☐	1.000		10990232.20		A	0.2
7	☐	1.000		10835450.12		A	0.5
8	☐	1.000		10314965.40		A	1.9

89 Y (ISTD) [He]

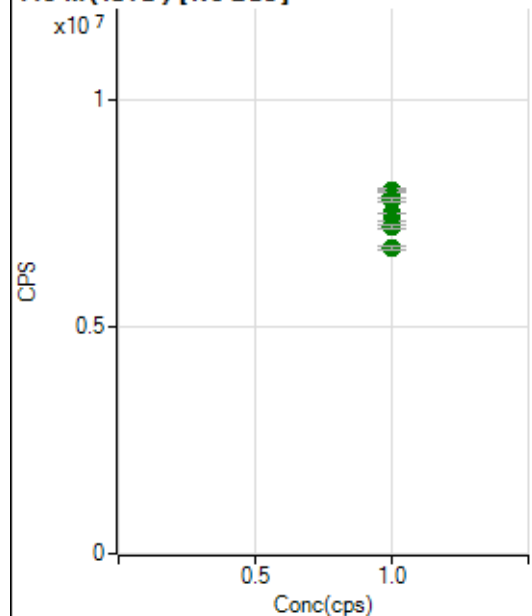
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2603505.41		A	1.1
2	☐	1.000		2609477.39		A	1.6
3	☐	1.000		2540731.87		A	1.0
4	☐	1.000		2440697.36		A	1.2
5	☐	1.000		2430693.39		A	1.3
6	☐	1.000		2409669.24		A	1.1
7	☐	1.000		2395225.68		A	0.6
8	☐	1.000		2275182.52		A	1.3

103 Rh (ISTD) [No Gas]

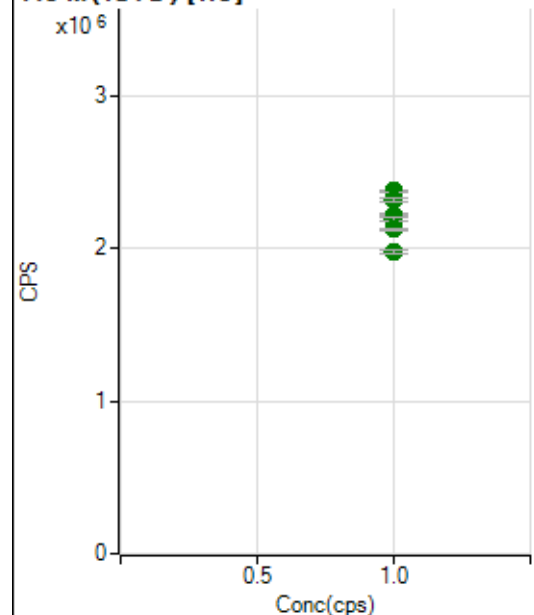
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7065324.55		A	1.0
2	☐	1.000		6956130.24		A	3.2
3	☐	1.000		6963540.18		A	1.0
4	☐	1.000		6767299.34		A	0.8
5	☐	1.000		6539828.58		A	1.0
6	☐	1.000		6330931.78		A	1.0
7	☐	1.000		6122117.13		A	1.1
8	☐	1.000		5539436.03		A	2.4

103 Rh (ISTD) [He]

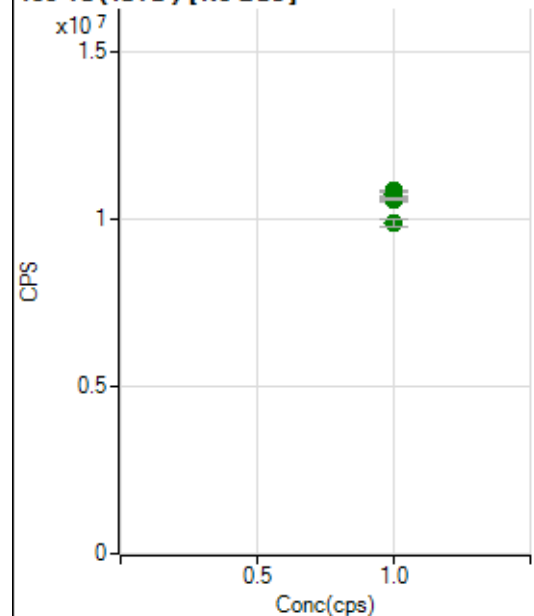
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3860239.22		A	0.1
2	☐	1.000		3834442.13		A	0.6
3	☐	1.000		3767958.28		A	0.7
4	☐	1.000		3570658.94		A	0.7
5	☐	1.000		3529486.62		A	1.0
6	☐	1.000		3448914.19		A	1.3
7	☐	1.000		3369406.10		A	0.3
8	☐	1.000		2993738.36		A	2.4

115 In (ISTD) [No Gas]

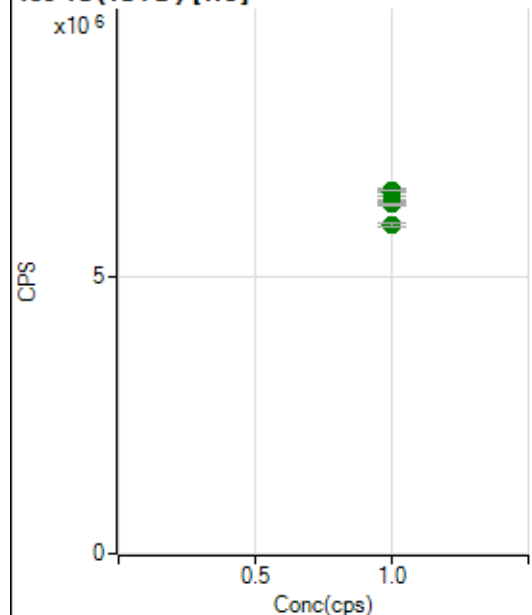
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8004872.84		A	0.2
2	☐	1.000		7898177.91		A	3.7
3	☐	1.000		7909560.49		A	1.6
4	☐	1.000		7800666.73		A	1.2
5	☐	1.000		7508999.85		A	0.4
6	☐	1.000		7341175.00		A	0.3
7	☐	1.000		7218097.44		A	0.9
8	☐	1.000		6747333.30		A	1.4

115 In (ISTD) [He]

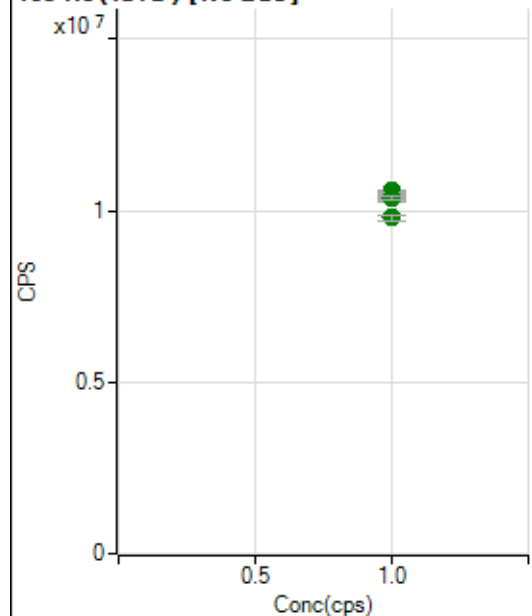
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2378837.81		A	0.7
2	☐	1.000		2372156.37		A	0.2
3	☐	1.000		2318321.14		A	0.9
4	☐	1.000		2221796.51		A	1.4
5	☐	1.000		2213361.72		A	1.1
6	☐	1.000		2190232.88		A	1.3
7	☐	1.000		2125522.93		A	0.2
8	☐	1.000		1981097.27		A	1.5

159 Tb (ISTD) [No Gas]

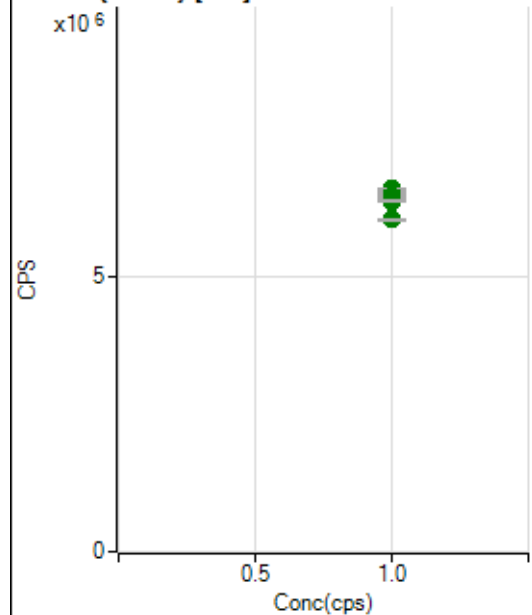
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10855922.47		A	0.5
2	☐	1.000		10677515.88		A	3.1
3	☐	1.000		10780926.92		A	1.8
4	☐	1.000		10742434.29		A	1.4
5	☐	1.000		10712052.90		A	0.0
6	☐	1.000		10648261.23		A	0.4
7	☐	1.000		10604567.27		A	0.5
8	☐	1.000		9911777.28		A	2.2

159 Tb (ISTD) [He]

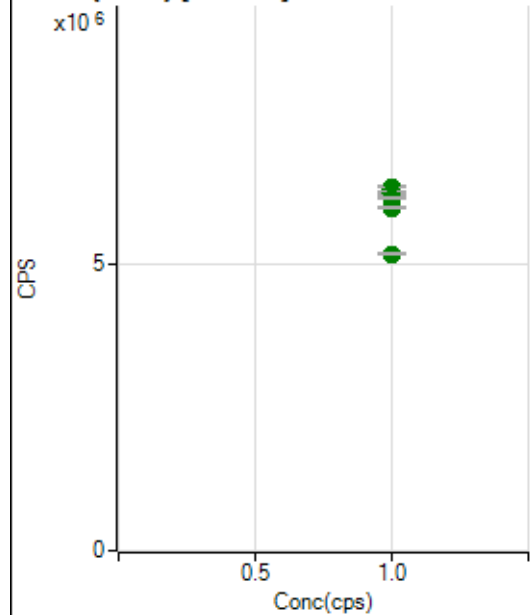
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6543965.94		A	0.6
2	☐	1.000		6566047.61		A	1.1
3	☐	1.000		6531153.65		A	1.5
4	☐	1.000		6343252.40		A	0.7
5	☐	1.000		6386996.50		A	0.5
6	☐	1.000		6338889.70		A	0.3
7	☐	1.000		6322910.46		A	0.5
8	☐	1.000		5952384.08		A	1.2

165 Ho (ISTD) [No Gas]

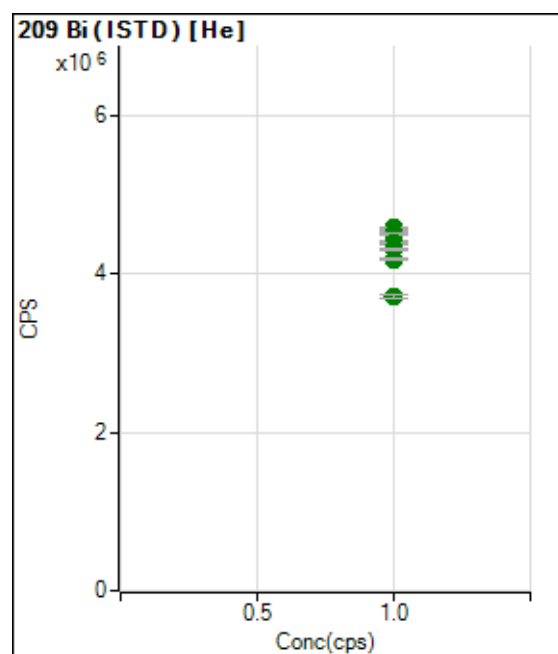
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10576667.07		A	0.8
2	☐	1.000		10394704.29		A	2.7
3	☐	1.000		10556231.58		A	1.0
4	☐	1.000		10509984.64		A	0.9
5	☐	1.000		10487852.34		A	0.6
6	☐	1.000		10344790.96		A	0.7
7	☐	1.000		10372120.82		A	0.7
8	☐	1.000		9786168.74		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6549544.69		A	0.3
2	☐	1.000		6586755.60		A	0.2
3	☐	1.000		6464555.53		A	0.9
4	☐	1.000		6366145.95		A	0.6
5	☐	1.000		6438032.54		A	0.8
6	☐	1.000		6414604.07		A	0.5
7	☐	1.000		6378422.54		A	0.5
8	☐	1.000		6028641.92		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6321762.82		A	1.7
2	☐	1.000		6294672.55		A	2.4
3	☐	1.000		6296802.34		A	1.4
4	☐	1.000		6297433.52		A	1.0
5	☐	1.000		6223800.88		A	0.9
6	☐	1.000		6147545.46		A	0.4
7	☐	1.000		5977351.92		A	0.3
8	☐	1.000		5174813.57		A	1.1



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4544175.28		A	0.5
2	☐	1.000		4577488.37		A	0.4
3	☐	1.000		4506061.53		A	0.7
4	☐	1.000		4381619.66		A	1.2
5	☐	1.000		4380919.00		A	0.8
6	☐	1.000		4310262.30		A	0.4
7	☐	1.000		4184328.79		A	0.5
8	☐	1.000		3714047.06		A	1.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7101823MS.b
Acq. Date-Time 2023-10-18 11:17:08
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		8470	84702.49			0.684	5.000
24		63121	631212.57			0.842	5.000
25		8329	83286.70			0.824	5.000
26		9379	93789.89			0.422	5.000
59		80173	801734.79			0.257	5.000
113		12654	126538.20			0.483	5.000
115		155776	1557759.64			0.492	5.000
206		35243	352428.88			0.375	5.000
207		32369	323686.22			0.264	5.000
208		76617	766171.68			0.315	5.000
220		0	3.20			28.384	

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

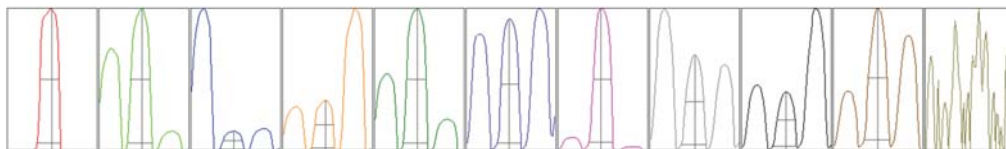
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8531	8524	8424	8470	8402
24	62441	62834	63044	63775	63512
25	8225	8302	8341	8372	8403
26	9340	9400	9333	9399	9422
59	80224	80114	80073	80500	79957
113	12708	12707	12602	12676	12576
115	156530	156193	156192	154684	155281
206	35308	35196	35282	35388	35040
207	32496	32370	32371	32351	32255
208	76767	76239	76523	76836	76721

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	13536.66	9.00	8.90 - 9.10	
24	102282.14	23.95	23.90 - 24.10	
25	13422.29	24.95	24.90 - 25.10	
26	15393.95	25.95	25.90 - 26.10	
59	125489.05	58.95	58.90 - 59.10	
113	21853.78	112.95	112.90 - 113.10	
115	265440.29	114.95	114.90 - 115.10	
206	60326.08	206.05	205.90 - 206.10	
207	54280.24	207.00	206.90 - 207.10	
208	130229.39	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.780	0.900	
24	0.65	0.830	0.900	
25	0.65	0.820	0.900	
26	0.63	0.768	0.900	
59	0.67	0.826	0.900	
113	0.59	0.795	0.900	
115	0.59	0.811	0.900	
206	0.60	0.826	0.900	
207	0.60	0.795	0.900	
208	0.61	0.852	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	14.8 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	1.0 mm
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EM

Discriminator	4.8 mV	Analog HV	2297 V	Pulse HV	1372 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		25319	253188.38			1.445	
89		33223	332229.44			1.336	
205		37096	370963.68			1.733	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25748	24822	25122	25329	25574
89	33832	32716	32928	33154	33484
205	37756	36076	37008	37134	37508

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	1.0 mm
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EM

Discriminator	4.8 mV	Analog HV	2297 V	Pulse HV	1372 V
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