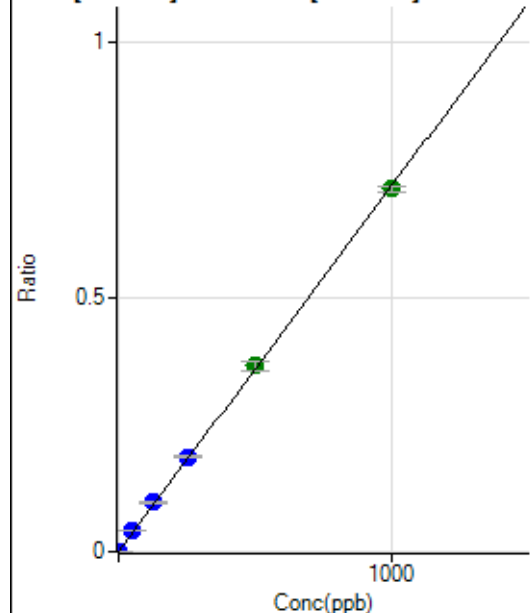


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7031423 MS1.b\
 Analysis File: P7031423 MS1.batch.bin
 DA Date-Time: 2023-03-14 22:06:46
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-14 13:07:28
2	006CALS.d	S02	2023-03-14 13:13:59
3	007CALS.d	S03	2023-03-14 13:17:13
4	008CALS.d	S04	2023-03-14 13:20:13
5	009CALS.d	S05	2023-03-14 13:23:03
6	010CALS.d	S06	2023-03-14 13:25:50
7	011CALS.d	S07	2023-03-14 13:28:35
8	012CALS.d	S08	2023-03-14 13:31:22

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	54.45	0.0000	P	14.4
2	☐	1.000	1.081	3602.67	0.0008	P	4.5
3	☐	50.000	55.688	179235.85	0.0400	P	1.1
4	☐	125.000	134.392	427764.81	0.0966	P	1.7
5	☐	250.000	259.755	829817.21	0.1866	P	1.1
6	☐	500.000	507.771	1577168.50	0.3648	A	4.8
7	☐	1000.000	992.217	2994746.48	0.7128	A	1.9
8	☐			625.58	0.0002	P	12.2

$$y = 7.1843\text{E-}004 * x + 1.2400\text{E-}005$$

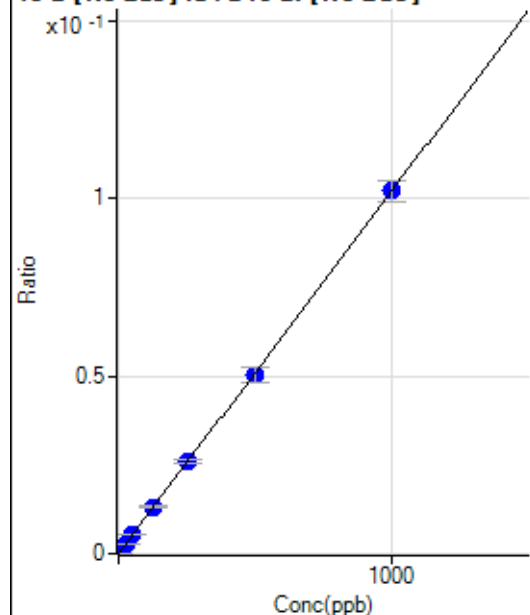
$$R = 0.9999$$

$$DL = 0.007463$$

$$BEC = 0.01726$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	255.56	0.0001	P	17.3
2	☐	25.000	24.989	11895.76	0.0026	P	9.7
3	☐	50.000	54.187	25038.12	0.0056	P	3.0
4	☐	125.000	128.991	58566.01	0.0132	P	5.3
5	☐	250.000	252.502	114846.87	0.0258	P	4.5
6	☐	500.000	494.315	218183.44	0.0505	P	8.5
7	☐	1000.000	1001.509	429408.40	0.1023	P	5.7
8	☐			23791.86	0.0063	P	18.8

$$y = 1.0204\text{E-}004 * x + 5.8175\text{E-}005$$

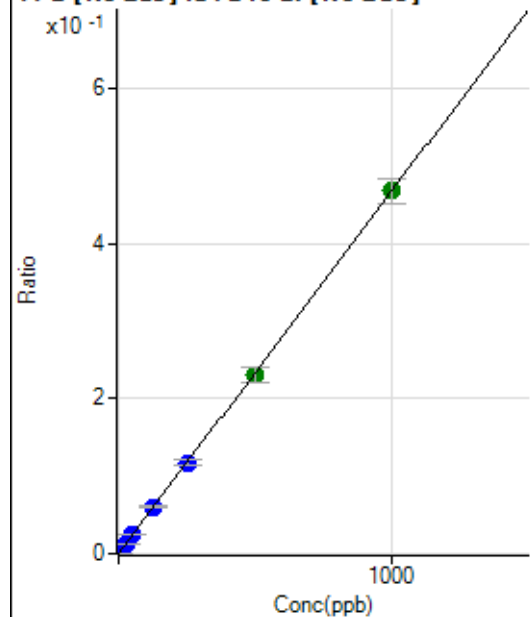
$$R = 1.0000$$

$$DL = 0.295$$

$$BEC = 0.5701$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1217.84	0.0003	P	6.5
2	☐	25.000	25.338	55336.61	0.0121	P	8.0
3	☐	50.000	54.394	115238.27	0.0257	P	2.8
4	☐	125.000	129.457	269444.17	0.0608	P	5.1
5	☐	250.000	251.370	524106.84	0.1178	P	4.8
6	☐	500.000	494.957	1001386.22	0.2318	A	8.5
7	☐	1000.000	1001.394	1967763.44	0.4686	A	6.8
8	☐			108054.53	0.0286	P	19.5

$$y = 4.6771\text{E-}004 * x + 2.7685\text{E-}004$$

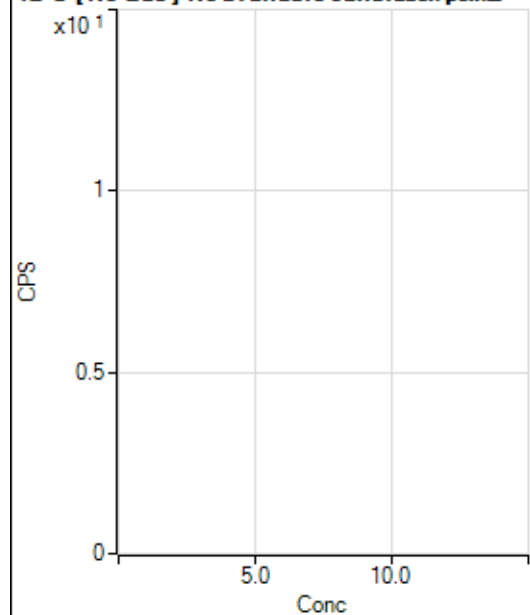
$$R = 1.0000$$

$$DL = 0.1148$$

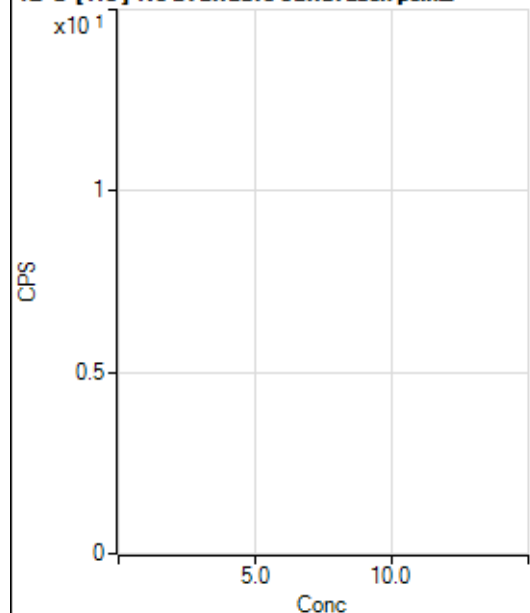
$$BEC = 0.5919$$

Weight: <None>

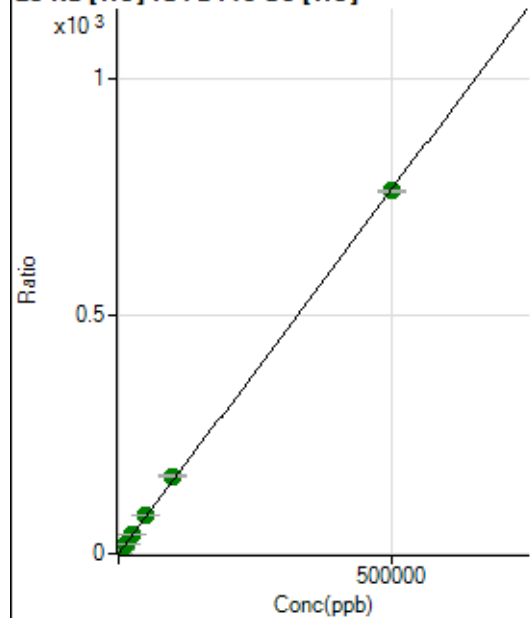
Min Conc: 0

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	26319.24	0.0422	P	0.9
2	☐	500.000	542.437	550034.63	0.8735	P	0.4
3	☐	5000.000	5517.769	5199046.42	8.4991	A	0.5
4	☐	12500.000	13539.085	12548786.62	20.7931	A	1.1
5	☐	25000.000	26798.380	24952973.52	41.1151	A	2.0
6	☐	50000.000	53068.566	49370895.93	81.3785	A	1.3
7	☐	100000.00	106619.61	100658426.2	163.4544	A	1.0
8	☐	500000.00	498248.10	447355024.4	763.6901	A	0.5

$$y = 0.0015 * x + 0.0422$$

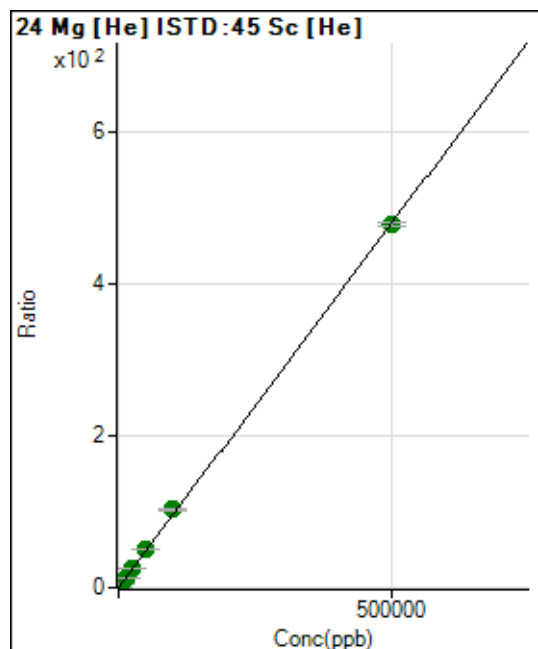
$$R = 0.9999$$

$$DL = 0.7836$$

$$BEC = 27.5$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	321.12	0.0005	P	4.7
2	☐	500.000	544.037	328437.63	0.5216	P	0.4
3	☐	5000.000	5639.473	3304646.93	5.4022	A	1.2
4	☐	12500.000	13643.000	7885890.86	13.0683	A	2.1
5	☐	25000.000	27095.975	15752765.32	25.9541	A	1.0
6	☐	50000.000	53580.117	31137067.31	51.3216	A	1.2
7	☐	100000.00	106992.26	63099275.73	102.4819	A	2.8
8	☐	500000.00	498103.72	279472800.2	477.1037	A	1.0

$$y = 9.5784\text{E-}004 * x + 5.1432\text{E-}004$$

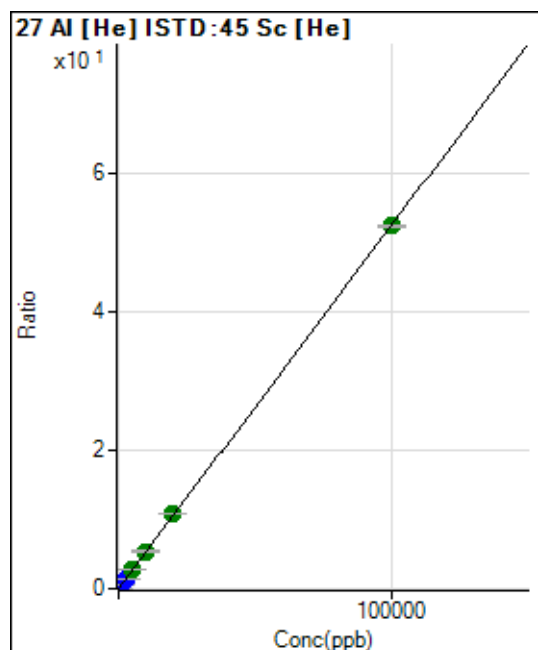
$$R = 0.9999$$

$$DL = 0.07573$$

$$BEC = 0.537$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	251.12	0.0004	P	6.9
2	☐	20.000	21.770	7449.64	0.0118	P	2.1
3	☐	1000.000	1109.892	356645.65	0.5830	P	0.6
4	☐	2500.000	2689.402	852244.08	1.4122	P	1.8
5	☐	5000.000	5228.328	1665883.62	2.7450	A	2.5
6	☐	10000.000	10303.477	3281810.85	5.4092	A	0.7
7	☐	20000.000	20555.311	6644653.37	10.7908	A	1.7
8	☐	100000.00	99841.339	30701521.49	52.4116	A	0.8

$$y = 5.2494\text{E-}004 * x + 4.0225\text{E-}004$$

$$R = 1.0000$$

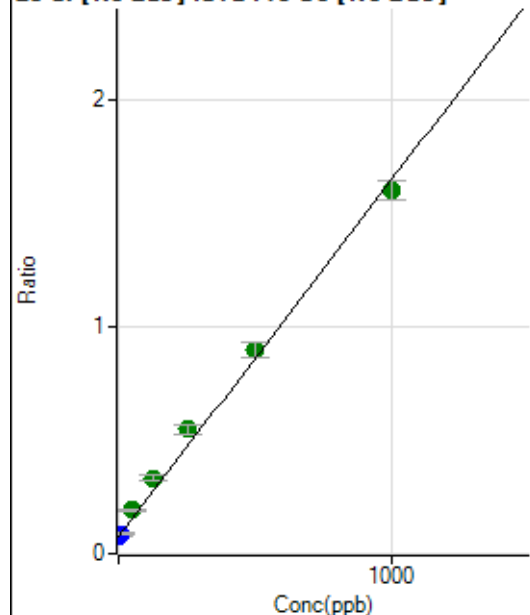
$$DL = 0.1584$$

$$BEC = 0.7663$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	560369.46	0.0752	P	1.2
2	☐	10.000	7.698	672595.30	0.0873	P	6.0
3	☐	50.000	74.280	1438652.18	0.1921	A	5.9
4	☐	125.000	163.823	2441275.82	0.3329	A	6.6
5	☐	250.000	300.905	3977353.27	0.5486	A	7.9
6	☐	500.000	524.628	6633096.50	0.9005	A	7.4
7	☐	1000.000	968.916	11845144.13	1.5994	A	5.3
8	☐			1385308.03	0.1973	A	6.3

$$y = 0.0016 * x + 0.0752$$

R = 0.9976

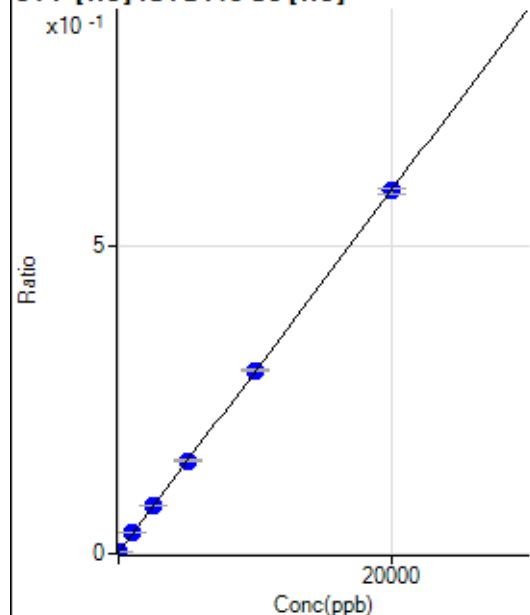
DL = 1.712

BEC = 47.81

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-12.367	1036.71	0.0017	P	9.8
2	☐	0.000	12.367	1504.53	0.0024	P	1.2
3	☐	1000.000	1050.222	20168.99	0.0330	P	0.6
4	☐	2500.000	2560.394	46755.61	0.0775	P	1.3
5	☐	5000.000	5035.110	91273.33	0.1504	P	1.9
6	☐	10000.000	10036.248	180654.49	0.2978	P	0.8
7	☐	20000.000	19963.038	363465.49	0.5903	P	1.6
8	☐			1208.95	0.0021	P	3.3

$$y = 2.9466E-005 * x + 0.0020$$

R = 1.0000

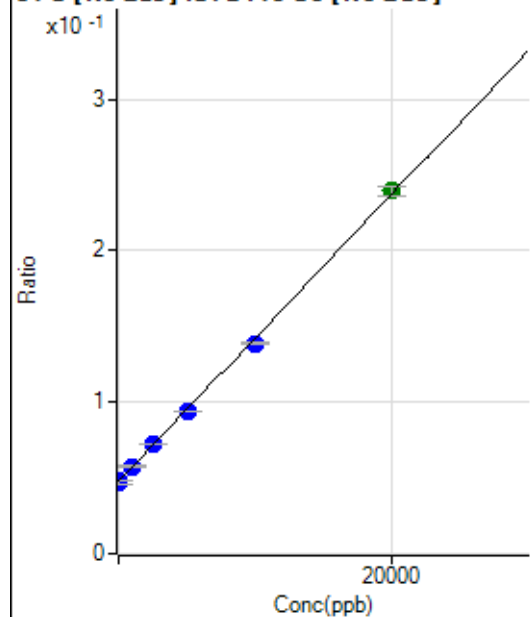
DL = 9.735

BEC = 68.73

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	45.898	358699.97	0.0481	P	1.2
2	☐	0.000	-45.898	364282.33	0.0473	P	4.5
3	☐	1000.000	1037.703	431105.60	0.0575	P	1.1
4	☐	2500.000	2551.696	527342.36	0.0719	P	0.6
5	☐	5000.000	4881.399	681431.24	0.0940	P	0.8
6	☐	10000.000	9588.995	1020723.91	0.1386	P	1.2
7	☐	20000.000	20226.806	1772937.56	0.2393	A	2.6
8	☐			305449.49	0.0435	P	2.9

$$y = 9.4741\text{E-}006 * x + 0.0477$$

R = 0.9996

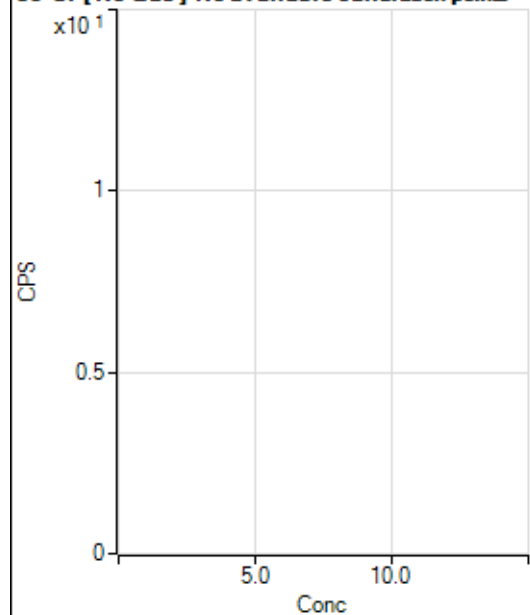
DL = 424.2

BEC = 5036

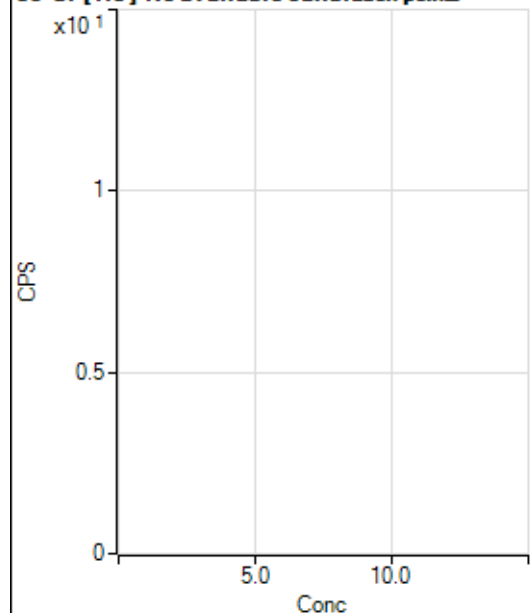
Weight: <None>

Min Conc: 0

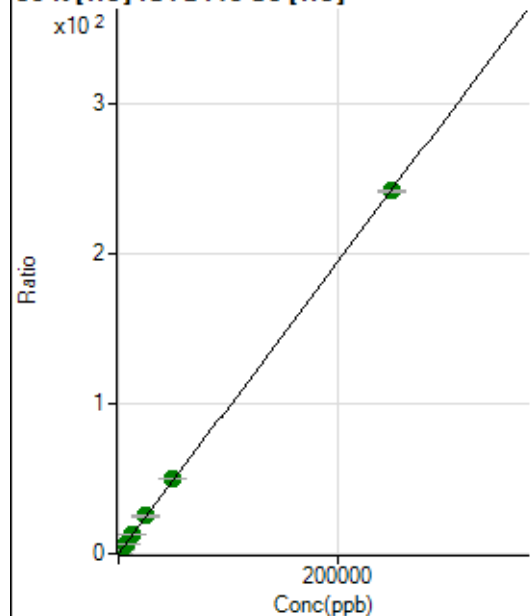
35 Cl [No Gas] No available calibration points



	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	69792.36	0.1118	P	1.1
2	☐	500.000	541.197	400324.03	0.6358	P	0.3
3	☐	2500.000	2686.474	1659509.42	2.7129	A	0.2
4	☐	6250.000	6490.713	3860069.98	6.3962	A	1.3
5	☐	12500.000	12979.223	7695134.47	12.6784	A	1.1
6	☐	25000.000	25864.751	15261098.10	25.1543	A	1.5
7	☐	50000.000	51774.968	30937798.71	50.2408	A	1.4
8	☐	250000.00	249526.60	141587129.0	241.7056	A	0.4

$$y = 9.6821\text{E-}004 * x + 0.1118$$

$$R = 1.0000$$

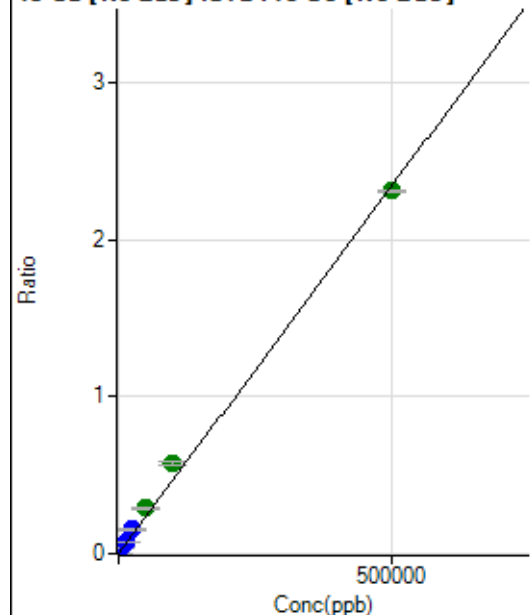
$$DL = 3.977$$

$$BEC = 115.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	225.56	0.0000	P	12.1
2	☐	500.000	573.746	20892.27	0.0027	P	5.9
3	☐	5000.000	6803.214	238481.75	0.0318	P	1.3
4	☐	12500.000	16490.065	565695.26	0.0771	P	1.1
5	☐	25000.000	32753.912	1110618.72	0.1531	P	1.6
6	☐	50000.000	61577.639	2120733.44	0.2879	A	3.6
7	☐	100000.00	122623.83	4246113.65	0.5733	A	3.7
8	☐	500000.00	493811.91	16214859.06	2.3085	A	0.3

$$y = 4.6748\text{E-}006 * x + 3.0290\text{E-}005$$

$$R = 0.9988$$

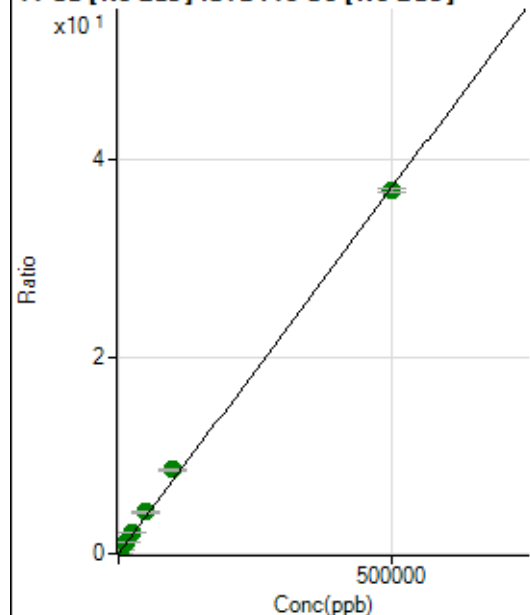
$$DL = 2.346$$

$$BEC = 6.48$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9770.39	0.0013	P	1.9
2	☐	500.000	568.206	334982.30	0.0435	P	5.0
3	☐	5000.000	5994.667	3342509.57	0.4462	A	2.3
4	☐	12500.000	14626.449	7972313.42	1.0868	A	1.0
5	☐	25000.000	29129.934	15686498.10	2.1632	A	2.2
6	☐	50000.000	56954.083	31146782.31	4.2281	A	1.8
7	☐	100000.00	114415.42	62908469.62	8.4926	A	2.9
8	☐	500000.00	496151.83	258641498.3	36.8229	A	0.9

$$y = 7.4214\text{E-}005 * x + 0.0013$$

$$R = 0.9995$$

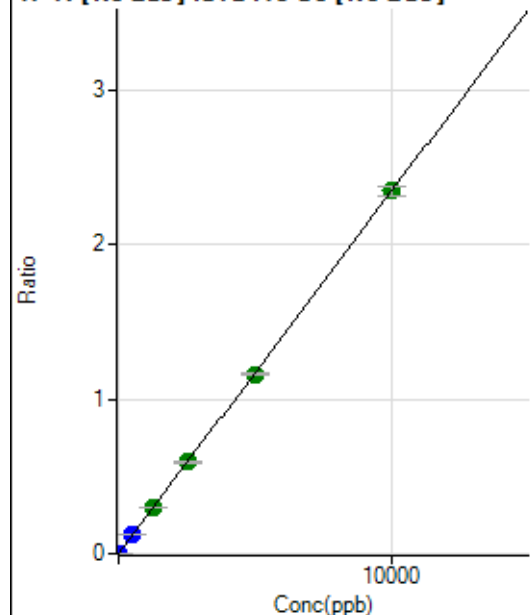
$$DL = 0.9978$$

$$BEC = 17.67$$

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	121.11	0.0000	P	10.0
2	☐	5.000	5.074	9284.04	0.0012	P	7.6
3	☐	500.000	527.361	926329.88	0.1237	P	1.7
4	☐	1250.000	1272.761	2188970.11	0.2984	A	1.3
5	☐	2500.000	2527.951	4298018.55	0.5927	A	2.0
6	☐	5000.000	4956.290	8560022.16	1.1620	A	1.6
7	☐	10000.000	10010.654	17385221.82	2.3470	A	2.7
8	☐			2109.05	0.0003	P	7.7

$$y = 2.3445\text{E-}004 * x + 1.6260\text{E-}005$$

$$R = 1.0000$$

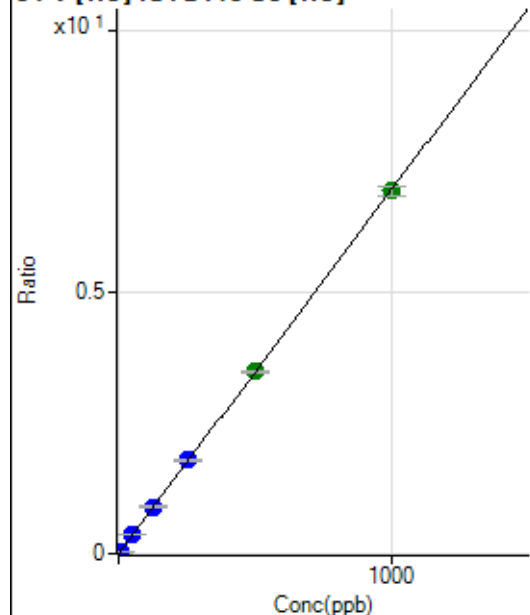
$$DL = 0.0208$$

$$BEC = 0.06935$$

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	6.66	0.0000	P	86.8
2	☐	5.000	5.014	21948.31	0.0349	P	1.4
3	☐	50.000	52.992	225290.97	0.3683	P	0.9
4	☐	125.000	128.538	539089.09	0.8933	P	1.9
5	☐	250.000	256.408	1081570.55	1.7820	P	1.3
6	☐	500.000	501.237	2113507.00	3.4836	A	0.7
7	☐	1000.000	997.188	4267165.36	6.9304	A	2.7
8	☐			692.24	0.0012	P	10.5

$$y = 0.0069 * x + 1.0681\text{E-}005$$

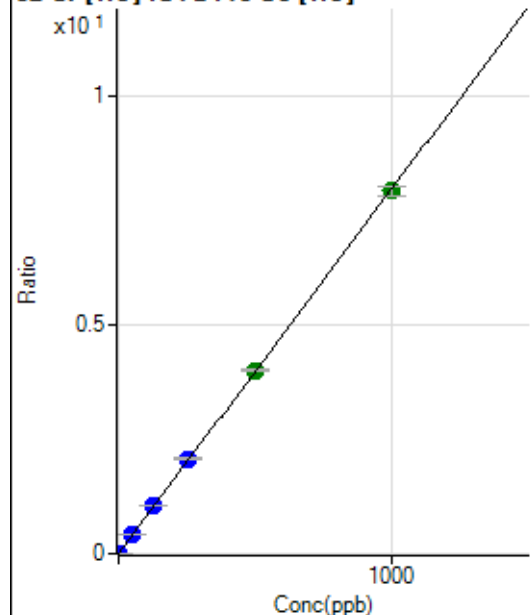
$$R = 1.0000$$

$$DL = 0.004001$$

$$BEC = 0.001537$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1354.52	0.0022	P	9.0
2	☐	2.000	2.023	11497.80	0.0183	P	2.3
3	☐	50.000	54.123	264675.13	0.4327	P	1.0
4	☐	125.000	131.813	634002.81	1.0507	P	2.2
5	☐	250.000	259.791	1255531.94	2.0687	P	1.4
6	☐	500.000	502.173	2424787.17	3.9967	A	0.8
7	☐	1000.000	995.408	4876692.98	7.9200	A	2.4
8	☐			33143.05	0.0566	P	0.1

$$y = 0.0080 * x + 0.0022$$

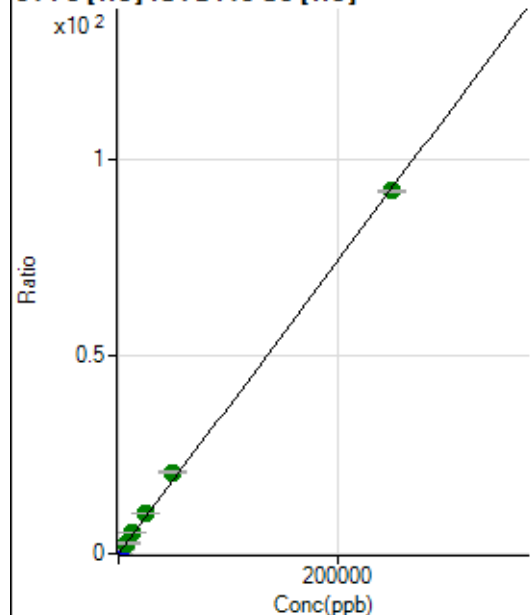
$$R = 0.9999$$

$$DL = 0.07356$$

$$BEC = 0.2728$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2469.12	0.0040	P	5.0
2	☐	50.000	61.608	16850.61	0.0268	P	1.6
3	☐	2500.000	3126.392	710358.62	1.1613	P	0.6
4	☐	6250.000	7174.022	1604779.73	2.6596	A	3.0
5	☐	12500.000	14056.816	3160551.41	5.2074	A	1.3
6	☐	25000.000	27833.474	6253481.16	10.3072	A	0.9
7	☐	50000.000	55440.243	12639082.03	20.5264	A	2.2
8	☐	250000.00	248521.39	53891808.64	91.9999	A	0.5

$$y = 3.7017E-004 * x + 0.0040$$

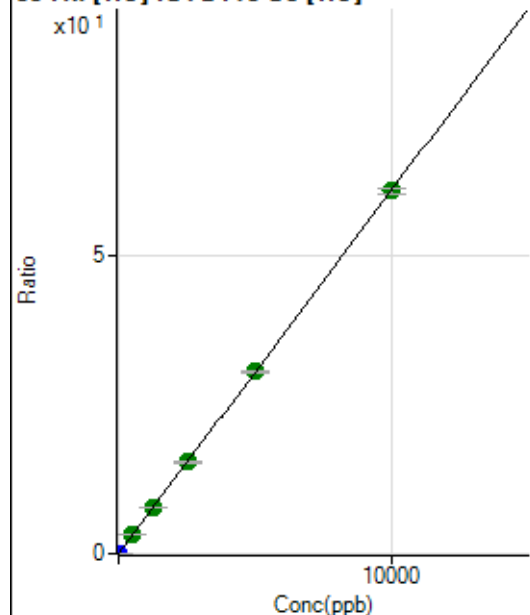
$$R = 0.9997$$

$$DL = 1.604$$

$$BEC = 10.68$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	141.11	0.0002	P	3.7
2	☐	1.000	1.076	4273.98	0.0068	P	0.7
3	☐	500.000	527.297	1966327.64	3.2144	A	0.5
4	☐	1250.000	1272.766	4681983.30	7.7585	A	1.7
5	☐	2500.000	2515.976	9307893.47	15.3366	A	1.9
6	☐	5000.000	5018.055	18558150.56	30.5884	A	0.8
7	☐	10000.000	9982.768	37469877.77	60.8513	A	1.9
8	☐			17459.14	0.0298	P	3.3

$$y = 0.0061 * x + 2.2603E-004$$

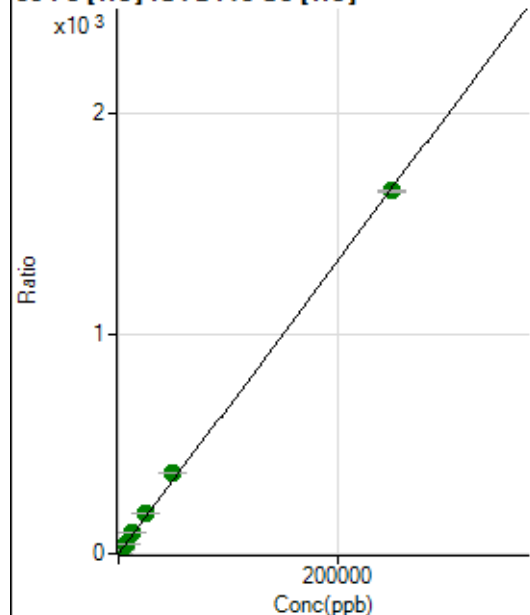
$$R = 1.0000$$

$$DL = 0.00409$$

$$BEC = 0.03708$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17341.23	0.0278	P	1.0
2	☐	50.000	60.372	269789.57	0.4285	P	0.7
3	☐	2500.000	2895.634	11773460.52	19.2465	A	0.2
4	☐	6250.000	7051.063	28260076.24	46.8266	A	1.3
5	☐	12500.000	14006.139	56442534.16	92.9883	A	0.7
6	☐	25000.000	27939.962	112525711.6	185.4688	A	0.7
7	☐	50000.000	55124.175	225318969.9	365.8938	A	1.1
8	☐	250000.00	248581.87	966477736.7	1,649.896	A	0.4

$$y = 0.0066 * x + 0.0278$$

$$R = 0.9997$$

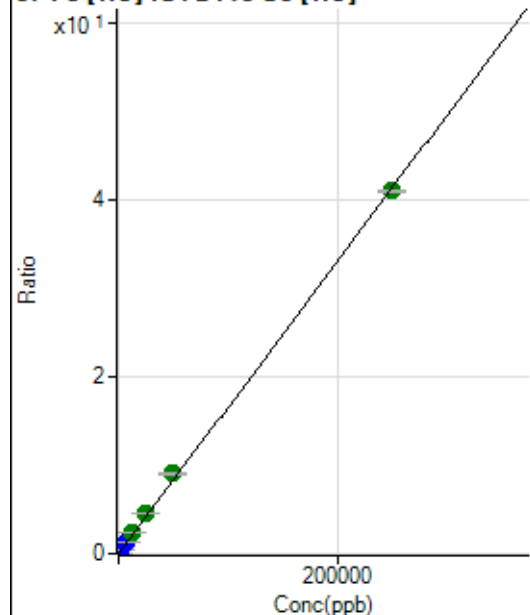
$$DL = 0.1277$$

$$BEC = 4.185$$

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	706.69	0.0011	P	13.9
2	☐	50.000	61.643	7117.30	0.0113	P	2.7
3	☐	2500.000	3096.562	313245.28	0.5121	P	0.7
4	☐	6250.000	7541.712	751672.89	1.2456	P	1.6
5	☐	12500.000	14061.926	1409069.89	2.3214	A	1.2
6	☐	25000.000	28161.095	2819958.33	4.6479	A	0.9
7	☐	50000.000	54688.625	5557731.65	9.0251	A	1.2
8	☐	250000.00	248629.80	24033421.86	41.0267	A	0.5

$$y = 1.6501E-004 * x + 0.0011$$

$$R = 0.9998$$

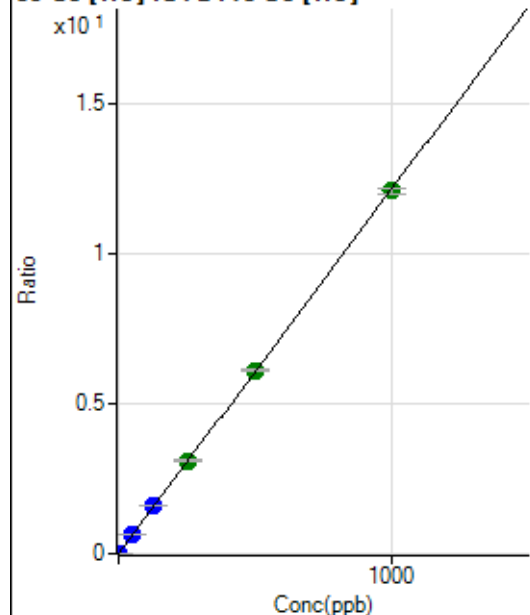
$$DL = 2.859$$

$$BEC = 6.859$$

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	88.89	0.0001	P	21.9
2	☐	1.000	1.015	7838.77	0.0124	P	1.4
3	☐	50.000	54.331	402940.82	0.6587	P	0.4
4	☐	125.000	132.228	967314.07	1.6029	P	1.9
5	☐	250.000	255.502	1879741.08	3.0972	A	1.6
6	☐	500.000	503.664	3704245.57	6.1053	A	0.3
7	☐	1000.000	995.673	7431781.70	12.0691	A	1.7
8	☐			7604.22	0.0130	P	1.9

$$y = 0.0121 * x + 1.4236E-004$$

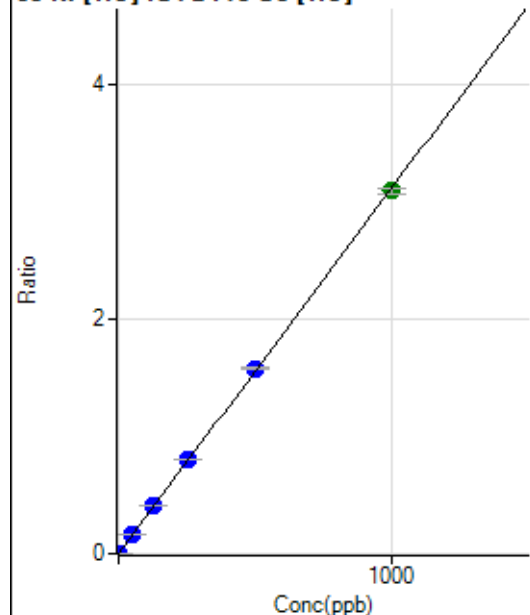
$$R = 1.0000$$

$$DL = 0.007718$$

$$BEC = 0.01174$$

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	46.67	0.0001	P	49.4
2	☐	1.000	1.065	2135.73	0.0034	P	4.4
3	☐	50.000	54.087	103103.49	0.1685	P	1.5
4	☐	125.000	131.451	247162.16	0.4095	P	1.0
5	☐	250.000	258.123	488040.09	0.8041	P	1.1
6	☐	500.000	507.466	959066.16	1.5808	P	0.7
7	☐	1000.000	993.226	1905170.21	3.0939	A	1.4
8	☐			4062.81	0.0069	P	2.0

$$y = 0.0031 * x + 7.4715E-005$$

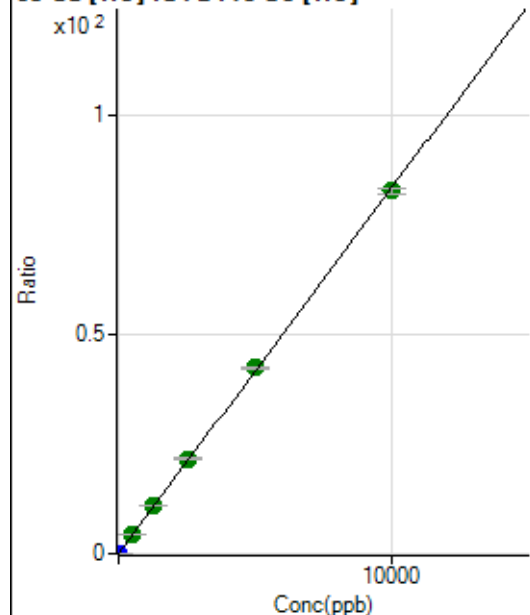
$$R = 0.9999$$

$$DL = 0.03556$$

$$BEC = 0.02399$$

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	1701.23	0.0027	P	2.7
2	☐	2.000	2.075	12603.17	0.0200	P	1.2
3	☐	500.000	547.186	2790343.22	4.5614	A	0.6
4	☐	1250.000	1314.546	6611821.29	10.9544	A	0.3
5	☐	2500.000	2589.488	13094943.14	21.5762	A	1.7
6	☐	5000.000	5084.731	25702571.84	42.3644	A	0.9
7	☐	10000.000	9924.835	50917270.91	82.6881	A	1.6
8	☐			6399.20	0.0109	P	4.4

$$y = 0.0083 * x + 0.0027$$

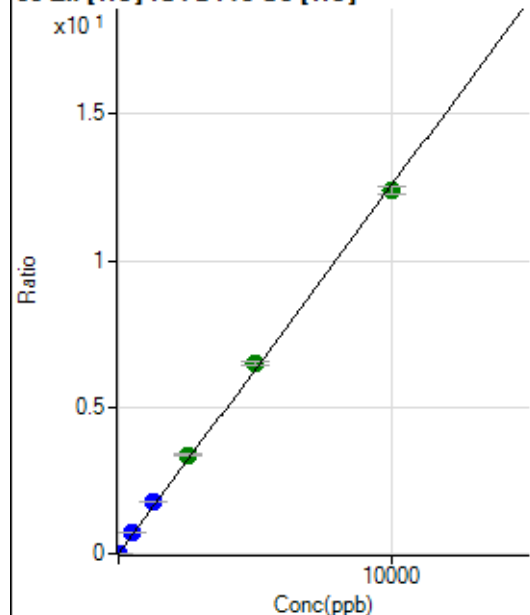
$$R = 0.9999$$

$$DL = 0.02604$$

$$BEC = 0.3271$$

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	421.12	0.0007	P	11.3
2	☐	2.000	2.420	2340.20	0.0037	P	6.8
3	☐	500.000	575.260	442553.74	0.7235	P	1.3
4	☐	1250.000	1398.605	1060938.35	1.7580	P	1.5
5	☐	2500.000	2667.775	2034776.65	3.3527	A	2.0
6	☐	5000.000	5171.217	3942594.73	6.4983	A	1.2
7	☐	10000.000	9850.109	7621389.05	12.3773	A	2.0
8	☐			3664.93	0.0063	P	1.4

$$y = 0.0013 * x + 6.7440E-004$$

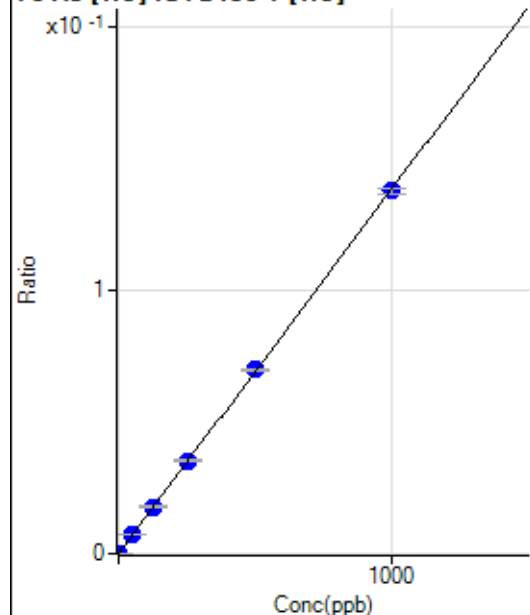
$$R = 0.9996$$

$$DL = 0.1819$$

$$BEC = 0.5367$$

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	4.44	0.0000	P	42.7
2	☐	1.000	1.115	576.68	0.0002	P	8.5
3	☐	50.000	51.622	26286.69	0.0071	P	0.6
4	☐	125.000	128.930	64079.74	0.0178	P	3.6
5	☐	250.000	255.834	128295.44	0.0354	P	1.5
6	☐	500.000	504.380	256126.14	0.0697	P	1.6
7	☐	1000.000	995.779	506940.45	0.1376	P	1.6
8	☐			85.56	0.0000	P	23.0

$$y = 1.3818E-004 * x + 1.1944E-006$$

$$R = 1.0000$$

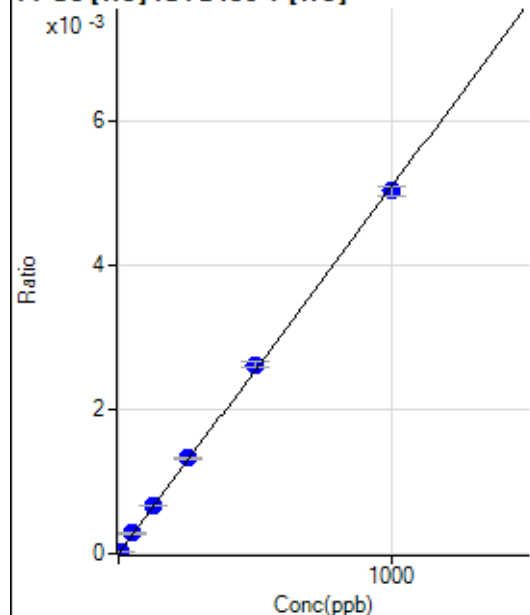
$$DL = 0.01107$$

$$BEC = 0.008644$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.341	101.11	0.0000	P	13.4
3	☐	50.000	56.194	1054.49	0.0003	P	4.4
4	☐	125.000	130.210	2385.77	0.0007	P	2.7
5	☐	250.000	261.039	4826.40	0.0013	P	2.5
6	☐	500.000	515.070	9639.87	0.0026	P	2.5
7	☐	1000.000	988.742	18557.29	0.0050	P	2.4
8	☐			6.67	0.0000	P	50.5

$$y = 5.0933\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

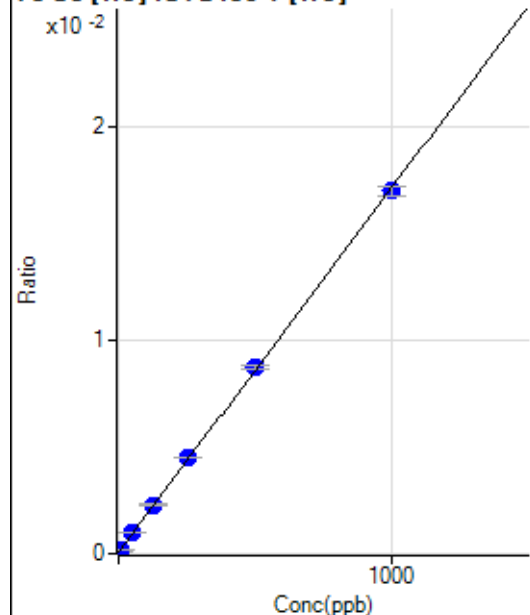
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	238.89	0.0001	P	7.8
2	☐	5.000	5.300	575.57	0.0002	P	0.1
3	☐	50.000	55.549	3734.95	0.0010	P	2.5
4	☐	125.000	129.324	8183.44	0.0023	P	2.3
5	☐	250.000	260.029	16362.48	0.0045	P	0.9
6	☐	500.000	508.636	32183.89	0.0088	P	1.2
7	☐	1000.000	992.355	62717.87	0.0170	P	2.5
8	☐			302.23	0.0001	P	4.2

$$y = 1.7091\text{E-}005 * x + 6.4314\text{E-}005$$

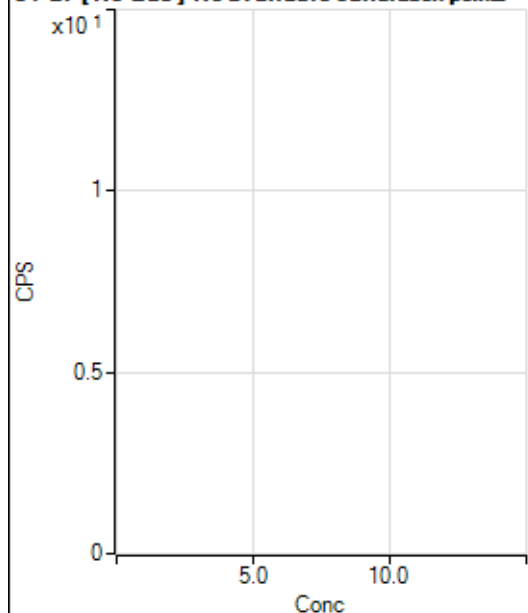
$$R = 0.9999$$

$$DL = 0.8825$$

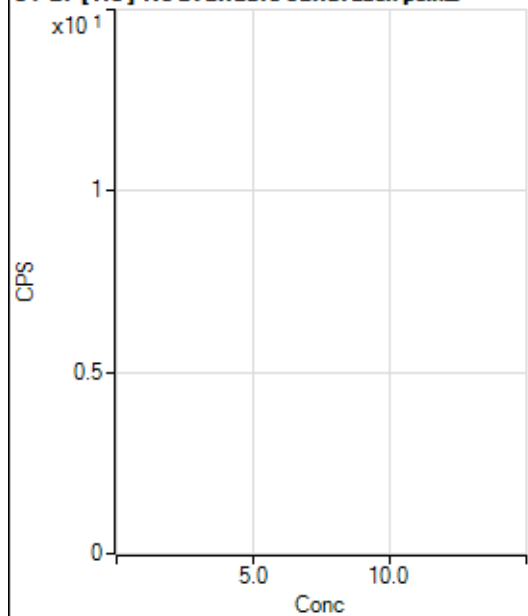
$$BEC = 3.763$$

Weight: <None>

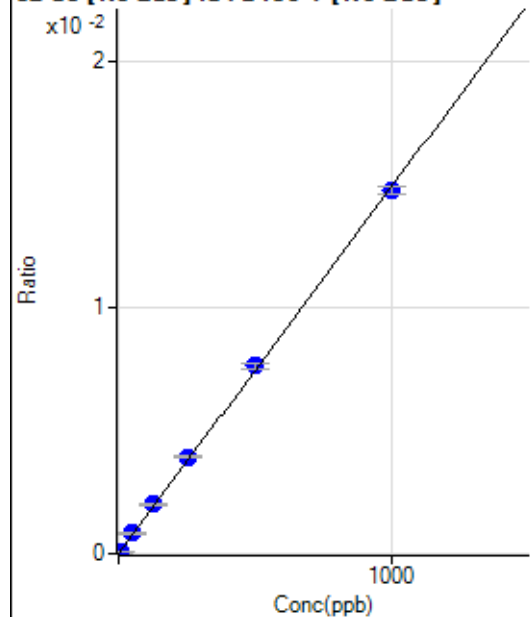
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34723.25		P	1.8
2	☐			34571.75		P	0.4
3	☐			33119.58		P	3.5
4	☐			32679.73		P	1.8
5	☐			32697.49		P	2.1
6	☐			34389.16		P	2.0
7	☐			35309.05		P	1.0
8	☐			35684.33		P	2.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			62.22		P	15.5
2	☐			77.78		P	28.5
3	☐			77.78		P	9.9
4	☐			86.67		P	16.8
5	☐			83.33		P	17.4
6	☐			74.44		P	2.6
7	☐			110.00		P	24.8
8	☐			105.56		P	21.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	49.66	0.0000	P	51.5
2	☐	5.000	4.722	1185.65	0.0001	P	11.9
3	☐	50.000	55.187	12946.99	0.0008	P	2.0
4	☐	125.000	133.633	31257.32	0.0020	P	1.7
5	☐	250.000	263.999	61057.11	0.0039	P	2.1
6	☐	500.000	512.484	120252.61	0.0076	P	2.7
7	☐	1000.000	988.921	238136.02	0.0147	P	2.2
8	☐			279.67	0.0000	P	8.6

$$y = 1.4908\text{E-}005 * x + 3.1795\text{E-}006$$

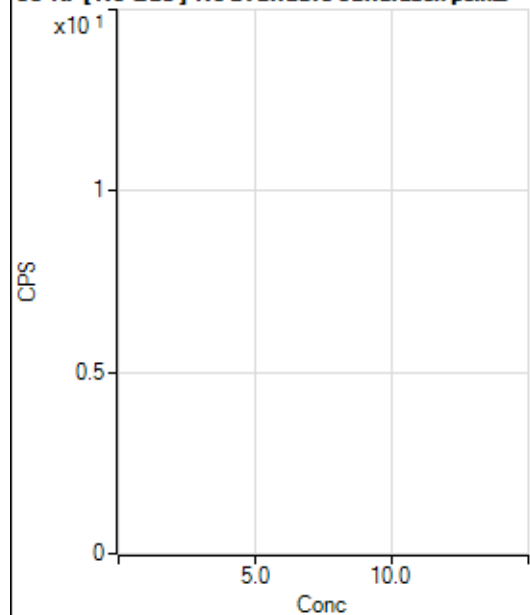
$$R = 0.9998$$

$$DL = 0.3293$$

$$BEC = 0.2133$$

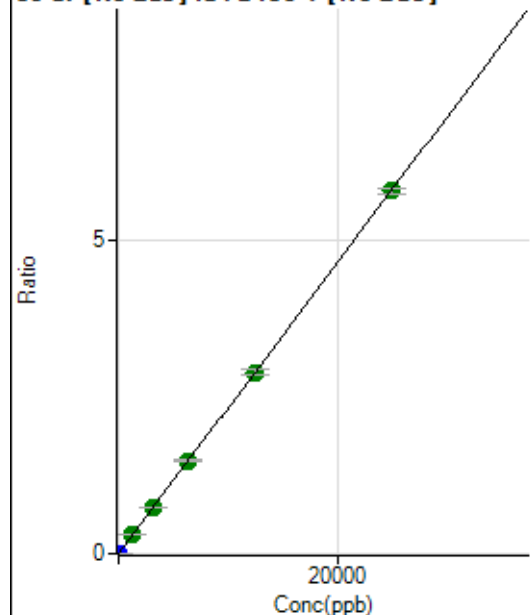
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			213.34		P	10.9
2	☐			217.78		P	18.3
3	☐			226.67		P	8.9
4	☐			208.90		P	21.2
5	☐			226.67		P	12.0
6	☐			247.78		P	13.1
7	☐			292.23		P	2.6
8	☐			287.79		P	6.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	380.01	0.0000	P	13.2
2	☐	1.000	0.975	4040.60	0.0003	P	3.8
3	☐	1250.000	1308.296	4754549.41	0.3033	A	0.7
4	☐	3125.000	3201.026	11624191.50	0.7420	A	0.6
5	☐	6250.000	6390.850	22963481.60	1.4814	A	2.0
6	☐	12500.000	12466.738	45464196.54	2.8898	A	3.0
7	☐	25000.000	24969.000	93471323.05	5.7877	A	1.3
8	☐			23389.83	0.0016	P	4.7

$$y = 2.3179E-004 * x + 2.4321E-005$$

$$R = 1.0000$$

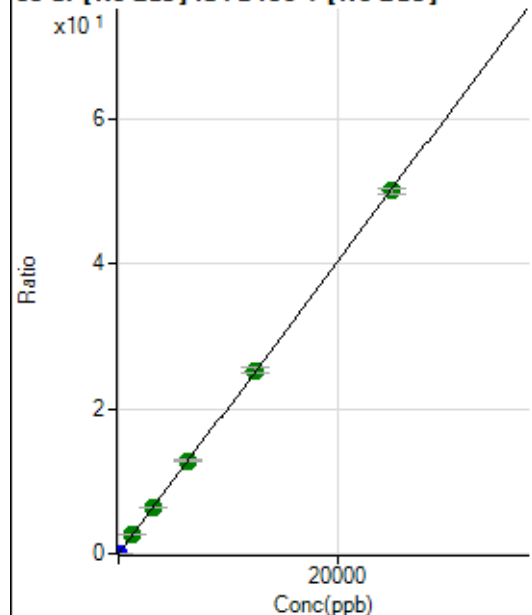
$$DL = 0.04143$$

$$BEC = 0.1049$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	205.56	0.0000	P	18.0
2	☐	1.000	0.981	32030.51	0.0020	P	3.9
3	☐	1250.000	1307.417	41177396.61	2.6267	A	1.2
4	☐	3125.000	3202.813	100806267.3	6.4347	A	0.6
5	☐	6250.000	6389.163	198984097.0	12.8362	A	1.6
6	☐	12500.000	12584.582	397774407.4	25.2832	A	3.2
7	☐	25000.000	24910.321	808231116.8	50.0463	A	1.7
8	☐			198755.88	0.0137	P	5.7

$$y = 0.0020 * x + 1.3152E-005$$

$$R = 1.0000$$

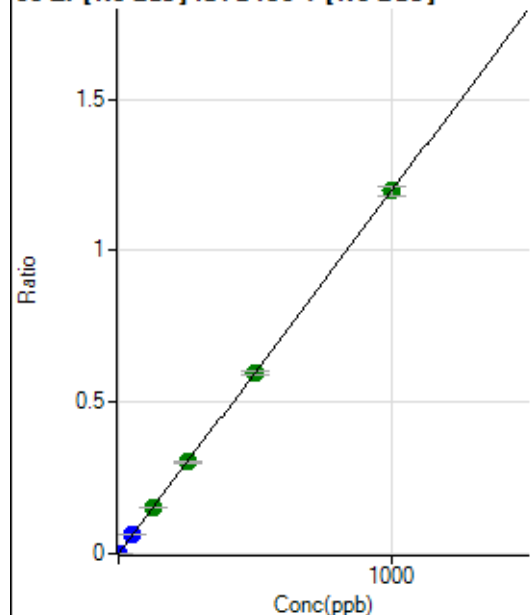
$$DL = 0.003526$$

$$BEC = 0.006546$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	634.46	0.0000	P	8.7
2	☐	1.000	0.980	19582.03	0.0012	P	4.7
3	☐	50.000	53.224	999114.33	0.0637	P	1.5
4	☐	125.000	127.171	2384485.38	0.1522	A	2.1
5	☐	250.000	251.861	4673184.27	0.3014	A	1.8
6	☐	500.000	497.809	9372965.97	0.5958	A	2.9
7	☐	1000.000	1000.198	19329448.74	1.1970	A	2.6
8	☐			4091.71	0.0003	P	5.6

$$y = 0.0012 * x + 4.0617E-005$$

$$R = 1.0000$$

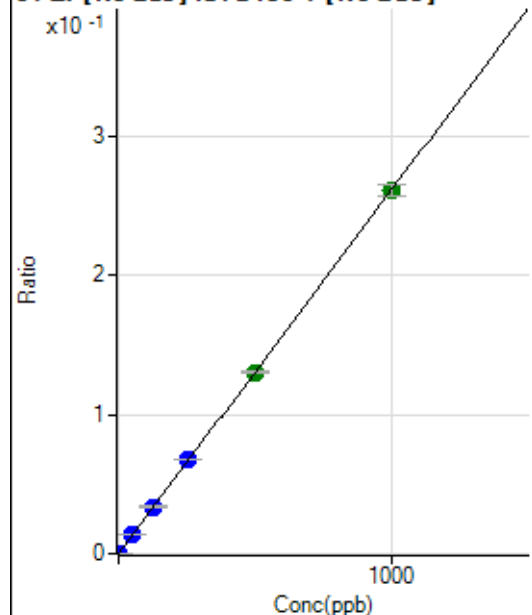
$$DL = 0.008876$$

$$BEC = 0.03394$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	110.00	0.0000	P	6.6
2	☐	1.000	0.991	4290.67	0.0003	P	1.6
3	☐	50.000	53.544	219288.55	0.0140	P	0.8
4	☐	125.000	129.161	528432.87	0.0337	P	0.9
5	☐	250.000	258.758	1047510.76	0.0676	P	1.2
6	☐	500.000	499.140	2050675.80	0.1303	A	1.8
7	☐	1000.000	997.543	4206177.02	0.2605	A	3.3
8	☐			840.03	0.0001	P	5.1

$$y = 2.6111E-004 * x + 7.0485E-006$$

$$R = 1.0000$$

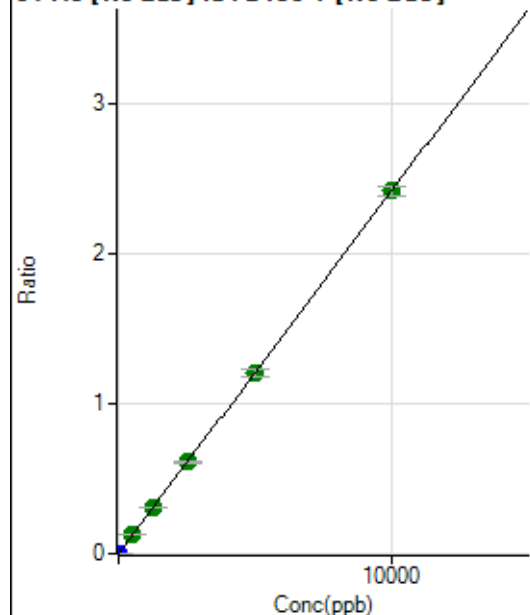
$$DL = 0.005367$$

$$BEC = 0.02699$$

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	215.56	0.0000	P	10.2
2	☐	5.000	5.719	22494.03	0.0014	P	4.9
3	☐	500.000	525.348	1988288.06	0.1268	A	1.5
4	☐	1250.000	1270.593	4805219.65	0.3067	A	0.9
5	☐	2500.000	2523.232	9442824.44	0.6091	A	1.1
6	☐	5000.000	4976.333	18899502.49	1.2013	A	3.7
7	☐	10000.000	10002.184	38992869.97	2.4145	A	2.4
8	☐			8250.18	0.0006	P	4.8

$$y = 2.4140\text{E-}004 * x + 1.3803\text{E-}005$$

$$R = 1.0000$$

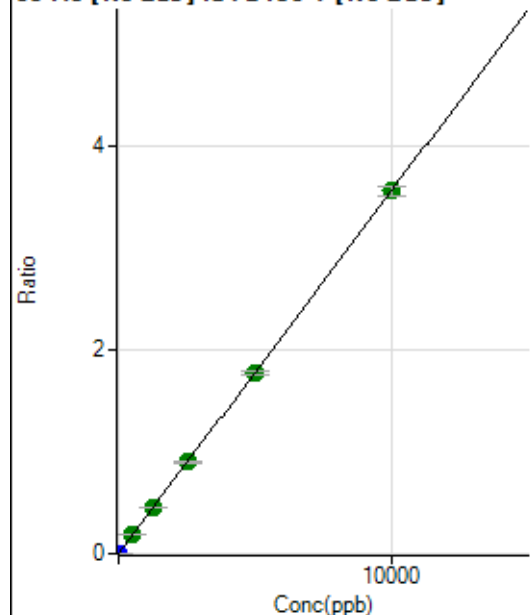
$$DL = 0.01754$$

$$BEC = 0.05718$$

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	25.56	0.0000	P	83.9
2	☐	5.000	4.856	27905.54	0.0017	P	2.8
3	☐	500.000	529.609	2953357.73	0.1884	A	0.9
4	☐	1250.000	1261.939	7031796.15	0.4489	A	1.3
5	☐	2500.000	2528.697	13944218.54	0.8995	A	1.0
6	☐	5000.000	4984.279	27893693.47	1.7730	A	3.0
7	☐	10000.000	9997.713	57430884.15	3.5563	A	2.5
8	☐			13906.80	0.0010	P	13.8

$$y = 3.5571\text{E-}004 * x + 1.6358\text{E-}006$$

$$R = 1.0000$$

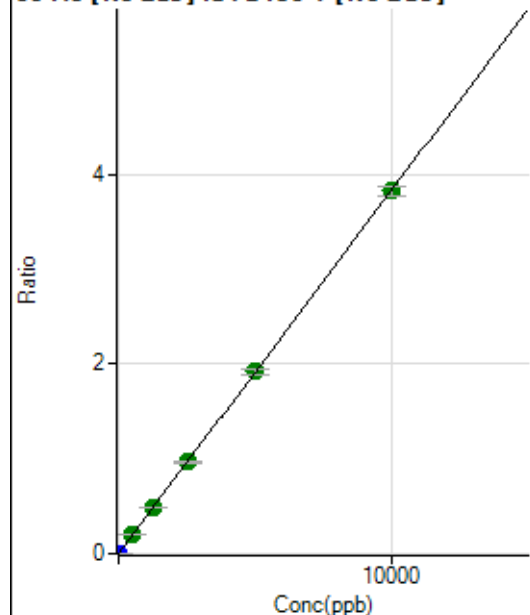
$$DL = 0.01158$$

$$BEC = 0.004599$$

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	116.67	0.0000	P	23.8
2	☐	5.000	4.921	30510.78	0.0019	P	3.3
3	☐	500.000	527.072	3162012.49	0.2017	A	1.5
4	☐	1250.000	1255.183	7524305.58	0.4803	A	1.7
5	☐	2500.000	2532.368	15022603.66	0.9691	A	1.7
6	☐	5000.000	5007.237	30147376.49	1.9162	A	2.5
7	☐	10000.000	9986.288	61715521.30	3.8215	A	2.4
8	☐			26893.70	0.0019	P	2.9

$$y = 3.8268\text{E-}004 * x + 7.4774\text{E-}006$$

$$R = 1.0000$$

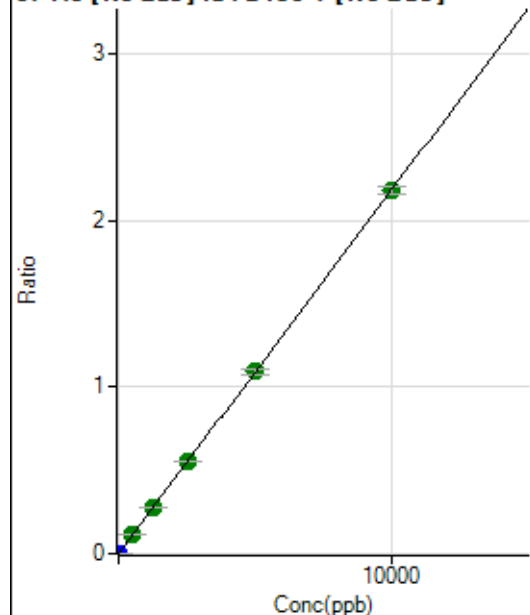
$$DL = 0.01395$$

$$BEC = 0.01954$$

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	25.55	0.0000	P	51.8
2	☐	5.000	4.897	17260.30	0.0011	P	4.0
3	☐	500.000	522.248	1785736.47	0.1139	A	1.7
4	☐	1250.000	1265.996	4325929.62	0.2761	A	0.9
5	☐	2500.000	2541.278	8592929.18	0.5543	A	1.3
6	☐	5000.000	5014.891	17209491.69	1.0938	A	2.9
7	☐	10000.000	9979.123	35151356.98	2.1766	A	2.3
8	☐			6654.91	0.0005	P	3.3

$$y = 2.1812\text{E-}004 * x + 1.6309\text{E-}006$$

$$R = 1.0000$$

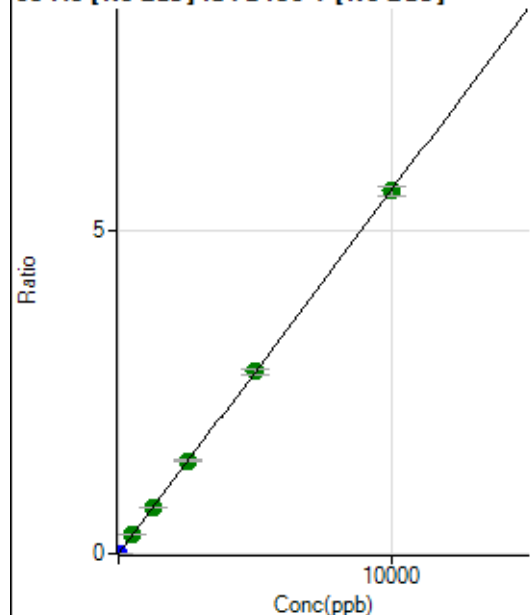
$$DL = 0.01161$$

$$BEC = 0.007477$$

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	48.89	0.0000	P	54.8
2	☐	5.000	4.889	44300.27	0.0027	P	4.5
3	☐	500.000	524.225	4610503.92	0.2941	A	2.2
4	☐	1250.000	1261.498	11086907.75	0.7078	A	1.3
5	☐	2500.000	2545.865	22140974.39	1.4283	A	2.0
6	☐	5000.000	5009.821	44220623.78	2.8107	A	3.0
7	☐	10000.000	9980.975	90430468.66	5.5997	A	2.6
8	☐			13767.74	0.0009	P	12.0

$$y = 5.6104\text{E-}004 * x + 3.1374\text{E-}006$$

$$R = 1.0000$$

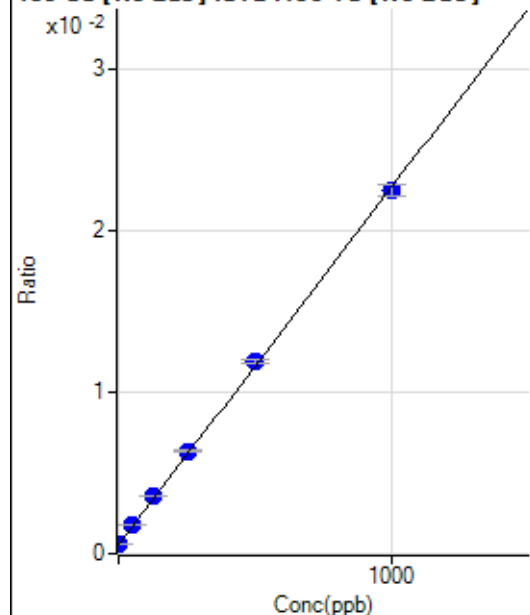
$$DL = 0.009196$$

$$BEC = 0.005592$$

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	7189.63	0.0006	P	1.9
2	☐	1.000	1.724	7965.59	0.0006	P	1.2
3	☐	50.000	55.547	23439.00	0.0018	P	1.6
4	☐	125.000	135.797	46625.83	0.0036	P	0.8
5	☐	250.000	260.572	83513.37	0.0063	P	1.6
6	☐	500.000	511.354	156593.78	0.0119	P	1.9
7	☐	1000.000	990.052	301422.77	0.0225	P	3.0
8	☐			6895.04	0.0006	P	4.3

$$y = 2.2124\text{E-}005 * x + 5.5611\text{E-}004$$

$$R = 0.9998$$

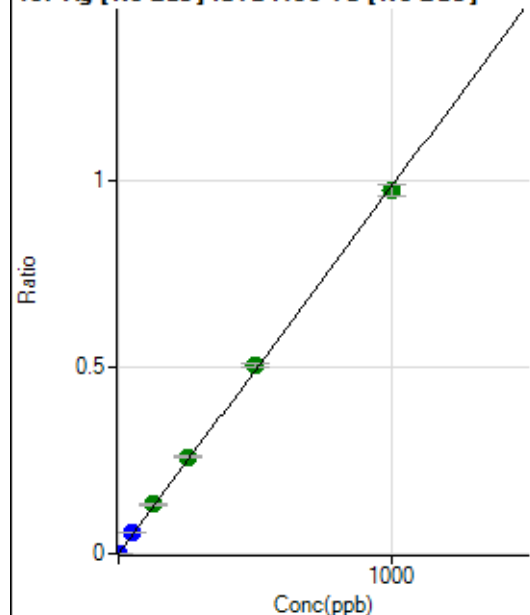
$$DL = 1.411$$

$$BEC = 25.14$$

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	77.78	0.0000	P	23.2
2	☐	1.000	1.080	14330.51	0.0011	P	3.1
3	☐	50.000	57.000	736791.22	0.0561	P	2.1
4	☐	125.000	134.187	1729637.53	0.1321	A	1.8
5	☐	250.000	263.856	3431527.21	0.2597	A	0.9
6	☐	500.000	513.254	6665434.06	0.5052	A	1.7
7	☐	1000.000	988.411	13056489.25	0.9729	A	3.1
8	☐			4858.64	0.0004	P	3.3

$$y = 9.8432\text{E-}004 * x + 6.0275\text{E-}006$$

$$R = 0.9997$$

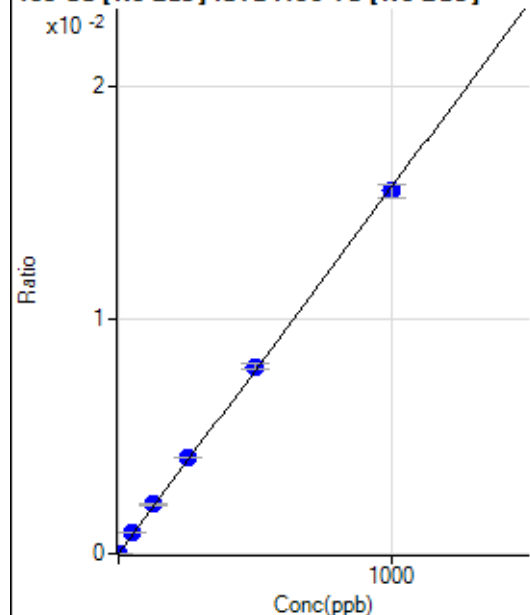
$$DL = 0.004266$$

$$BEC = 0.006124$$

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	17.78	0.0000	P	38.9
2	☐	1.000	1.060	241.12	0.0000	P	12.5
3	☐	50.000	55.792	11498.00	0.0009	P	2.1
4	☐	125.000	134.231	27560.74	0.0021	P	1.9
5	☐	250.000	261.140	54083.85	0.0041	P	0.6
6	☐	500.000	511.460	105754.57	0.0080	P	2.4
7	☐	1000.000	990.042	208217.89	0.0155	P	3.4
8	☐			107.78	0.0000	P	17.7

$$y = 1.5670\text{E-}005 * x + 1.3732\text{E-}006$$

$$R = 0.9998$$

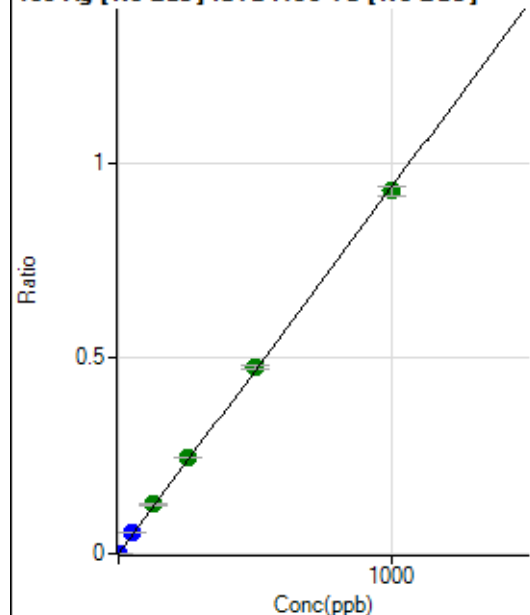
$$DL = 0.1023$$

$$BEC = 0.08763$$

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	28.89	0.0000	P	27.7
2	☐	1.000	1.070	13488.62	0.0010	P	2.7
3	☐	50.000	56.759	699582.55	0.0533	P	2.2
4	☐	125.000	133.806	1644596.59	0.1256	A	1.9
5	☐	250.000	262.282	3252670.96	0.2462	A	0.7
6	☐	500.000	511.156	6329831.02	0.4798	A	2.1
7	☐	1000.000	989.912	12470747.17	0.9291	A	2.7
8	☐			4610.78	0.0004	P	2.1

$$y = 9.3862\text{E-}004 * x + 2.2289\text{E-}006$$

$$R = 0.9998$$

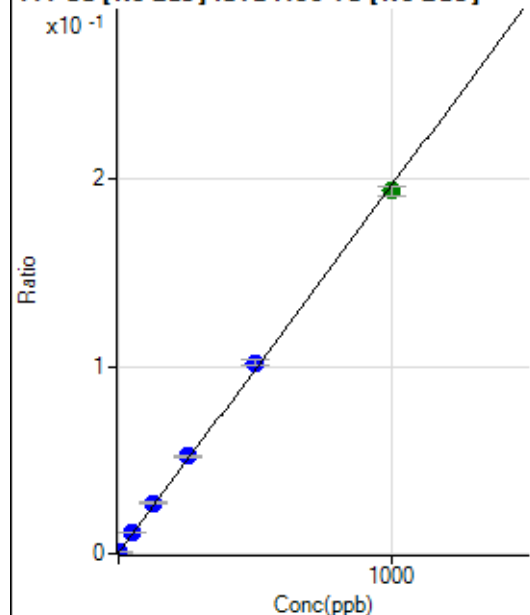
$$DL = 0.001974$$

$$BEC = 0.002375$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5026.96	0.0004	P	1.9
2	☐	1.000	1.150	8231.88	0.0006	P	1.0
3	☐	50.000	56.524	150616.67	0.0115	P	1.1
4	☐	125.000	136.316	355029.40	0.0271	P	2.2
5	☐	250.000	263.669	688063.72	0.0521	P	1.2
6	☐	500.000	518.065	1345036.21	0.1020	P	2.4
7	☐	1000.000	985.810	2598940.67	0.1936	A	2.7
8	☐			5427.77	0.0005	P	4.2

$$y = 1.9604\text{E-}004 * x + 3.8883\text{E-}004$$

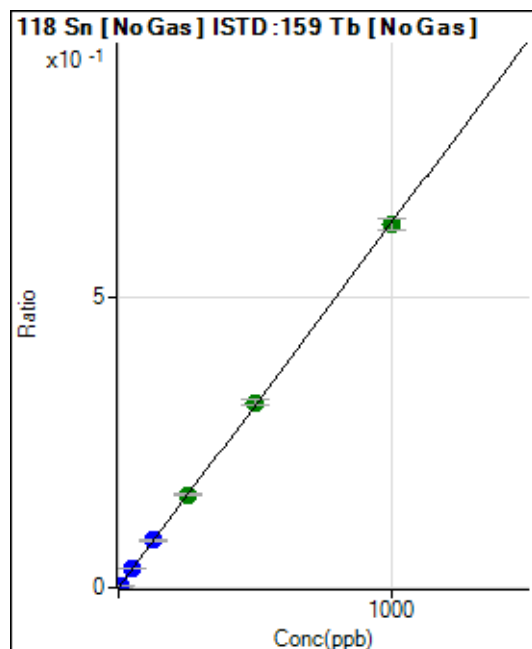
$$R = 0.9996$$

$$DL = 0.1146$$

$$BEC = 1.983$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1384.53	0.0001	P	7.2
2	☐	5.000	5.419	47064.61	0.0035	P	4.1
3	☐	50.000	53.559	443473.28	0.0338	P	1.9
4	☐	125.000	129.813	1069910.57	0.0817	P	1.5
5	☐	250.000	254.769	2117396.72	0.1602	A	0.8
6	☐	500.000	507.625	4210950.74	0.3192	A	3.0
7	☐	1000.000	994.213	8388236.06	0.6250	A	3.3
8	☐			3782.76	0.0003	P	2.5

$$y = 6.2858\text{E-}004 * x + 1.0713\text{E-}004$$

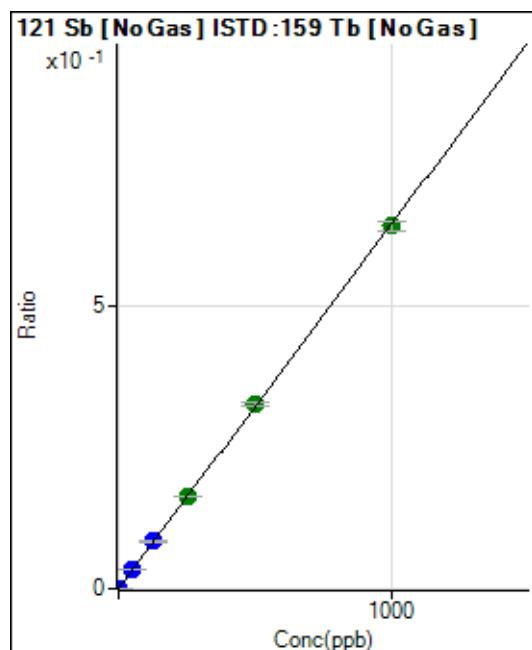
$$R = 0.9999$$

$$DL = 0.03656$$

$$BEC = 0.1704$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	23.5
2	☐	2.000	2.015	17448.48	0.0013	P	3.5
3	☐	50.000	53.221	450941.81	0.0343	P	1.8
4	☐	125.000	130.167	1099815.36	0.0840	P	1.7
5	☐	250.000	254.812	2172311.90	0.1644	A	0.7
6	☐	500.000	505.585	4303894.24	0.3262	A	2.1
7	☐	1000.000	995.198	8617795.15	0.6421	A	2.8
8	☐			3945.02	0.0003	P	8.8

$$y = 6.4523\text{E-}004 * x + 2.0578\text{E-}006$$

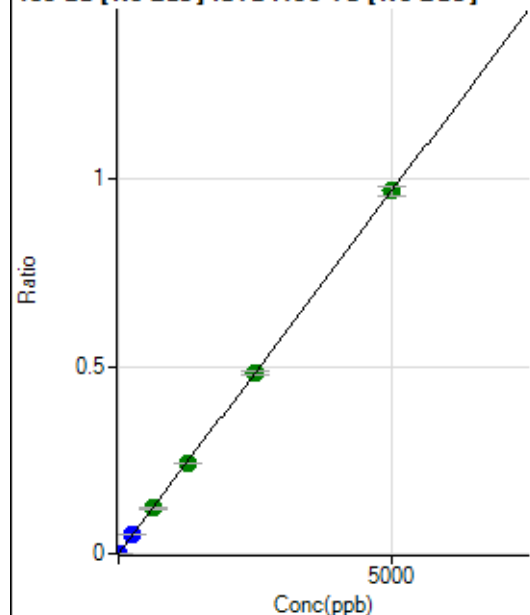
$$R = 1.0000$$

$$DL = 0.002249$$

$$BEC = 0.003189$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18.89	0.0000	P	11.7
2	☐	10.000	9.543	24764.91	0.0018	P	1.9
3	☐	250.000	255.458	649149.05	0.0494	P	1.7
4	☐	625.000	626.668	1587913.36	0.1213	A	2.4
5	☐	1250.000	1242.202	3176021.58	0.2404	A	1.2
6	☐	2500.000	2491.913	6361888.24	0.4822	A	2.8
7	☐	5000.000	5005.512	12999463.56	0.9686	A	2.9
8	☐			5840.13	0.0005	P	3.8

$$y = 1.9351\text{E-}004 * x + 1.4629\text{E-}006$$

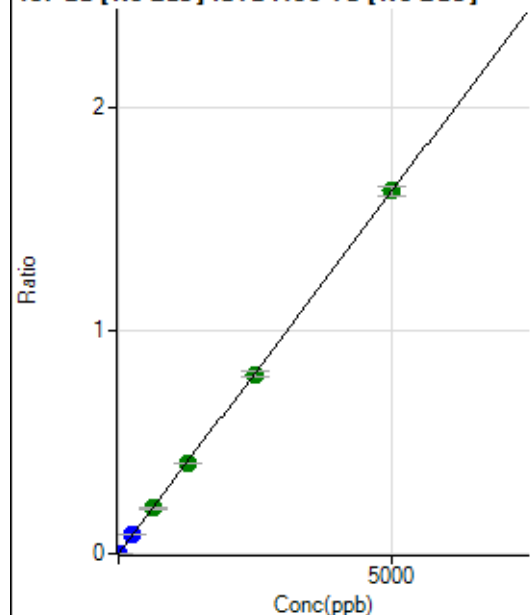
$$R = 1.0000$$

$$DL = 0.002654$$

$$BEC = 0.007559$$

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	38.89	0.0000	P	45.4
2	☐	10.000	9.709	42243.99	0.0032	P	3.4
3	☐	250.000	259.155	1104176.59	0.0841	P	1.3
4	☐	625.000	631.648	2683386.24	0.2049	A	2.9
5	☐	1250.000	1250.494	5360403.63	0.4057	A	1.6
6	☐	2500.000	2479.010	10611418.04	0.8043	A	2.4
7	☐	5000.000	5009.083	21812435.79	1.6252	A	2.3
8	☐			9806.82	0.0008	P	4.5

$$y = 3.2445\text{E-}004 * x + 2.9929\text{E-}006$$

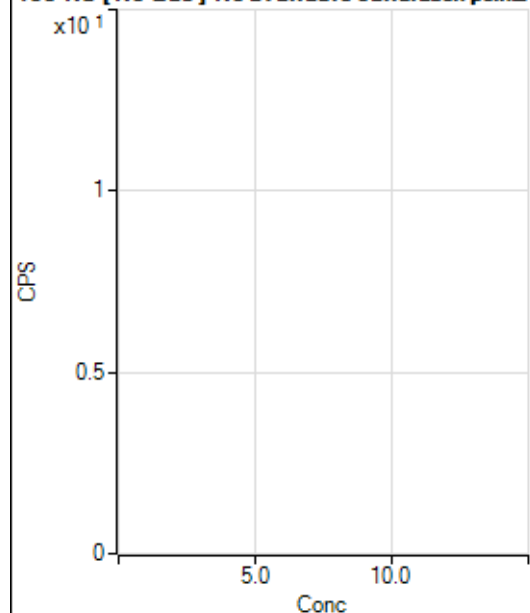
$$R = 1.0000$$

$$DL = 0.01256$$

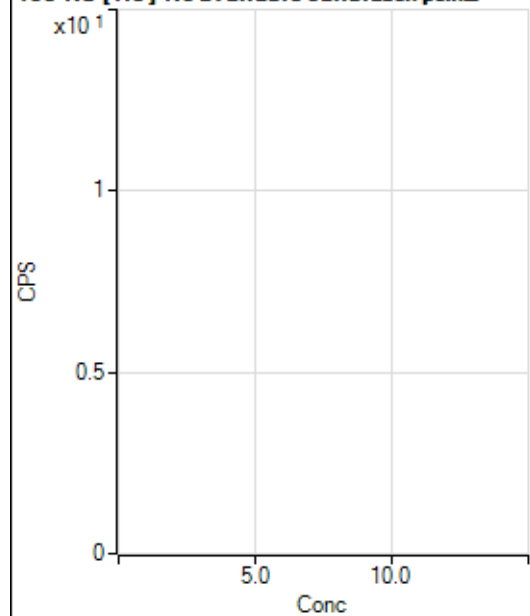
$$BEC = 0.009225$$

Weight: <None>

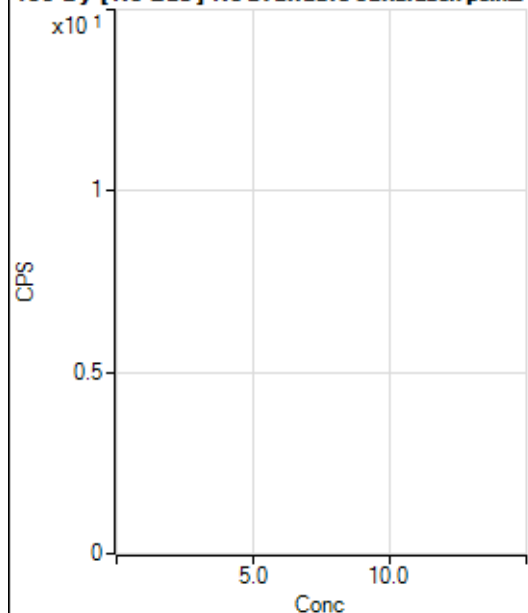
Min Conc: 0

150 Nd [No Gas] No available calibration points

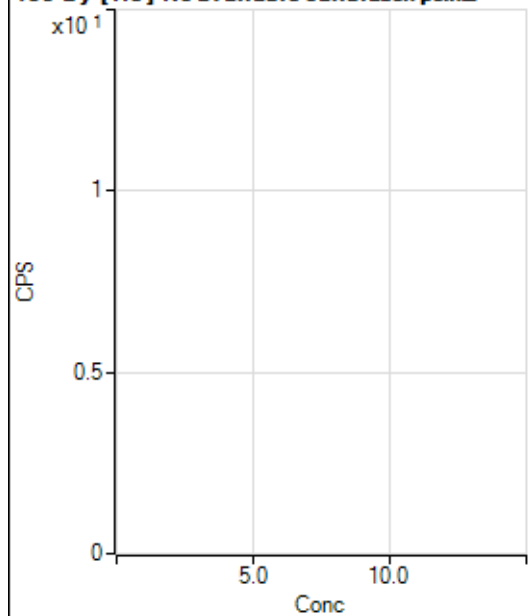
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			12.22		P	56.8
3	☐			98.89		P	10.8
4	☐			233.34		P	6.2
5	☐			450.01		P	3.2
6	☐			813.37		P	3.3
7	☐			1555.66		P	7.2
8	☐			82.22		P	14.2

150 Nd [He] No available calibration points

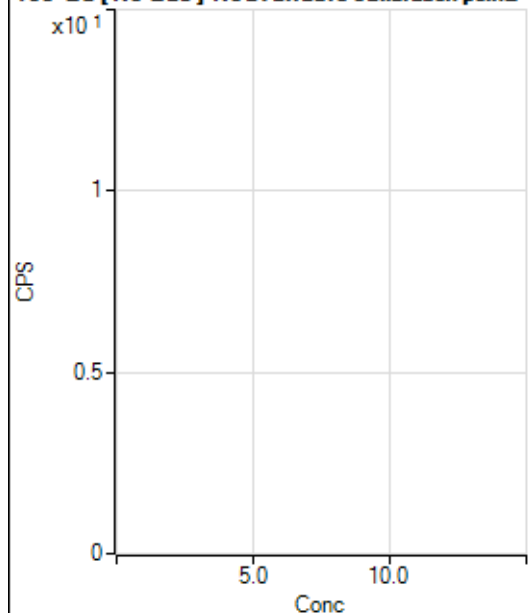
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	86.6
3	☐			24.44		P	7.9
4	☐			40.00		P	30.0
5	☐			64.44		P	15.8
6	☐			142.22		P	21.3
7	☐			305.56		P	10.7
8	☐			34.45		P	11.2

156 Dy [No Gas] No available calibration points

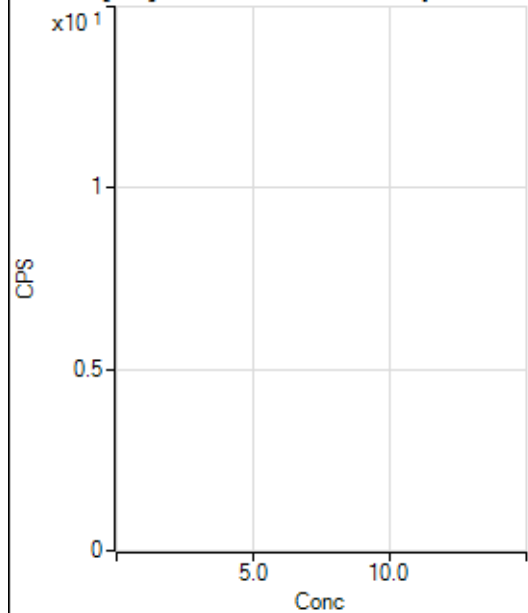
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			16.67		P	40.0
3	☐			61.11		P	22.0
4	☐			108.89		P	10.7
5	☐			212.23		P	4.0
6	☐			357.79		P	8.8
7	☐			720.02		P	1.6
8	☐			2131.30		P	7.0

156 Dy [He] No available calibration points

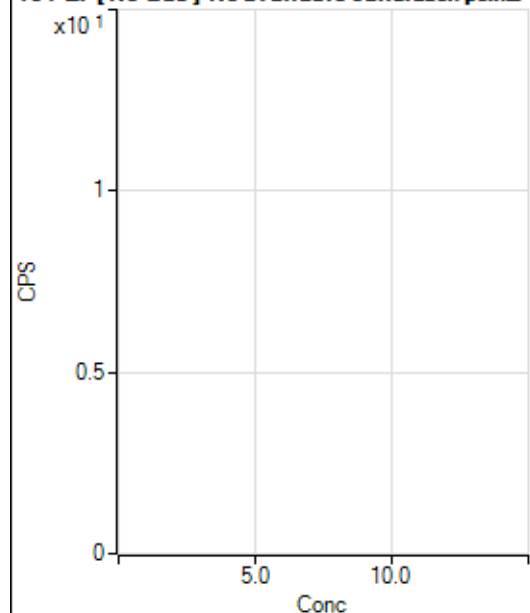
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			10.00		P	0.0
3	☐			47.78		P	21.3
4	☐			114.45		P	4.4
5	☐			190.00		P	17.3
6	☐			434.46		P	9.9
7	☐			888.93		P	2.4
8	☐			1342.30		P	7.7

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

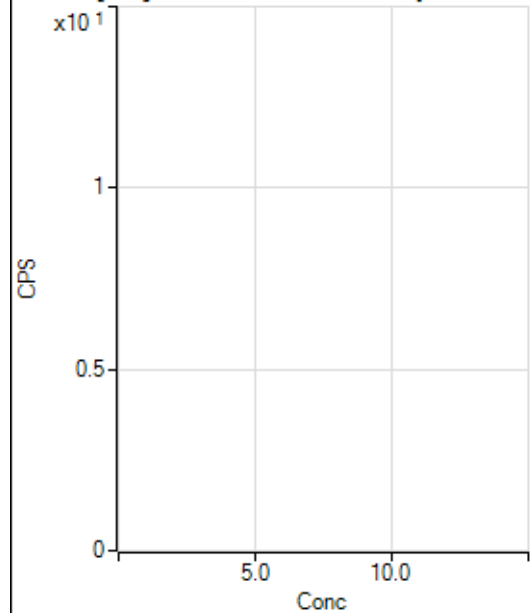
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.00		P	27.3
2	☐			96.67		P	30.1
3	☐			124.45		P	14.8
4	☐			145.56		P	9.5
5	☐			226.67		P	25.1
6	☐			317.78		P	4.4
7	☐			643.36		P	11.2
8	☐			2286.88		P	5.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			484.46		P	9.9
2	☐			540.01		P	10.8
3	☐			540.02		P	1.2
4	☐			562.24		P	5.0
5	☐			650.02		P	14.4
6	☐			682.25		P	10.5
7	☐			877.82		P	8.8
8	☐			2114.63		P	3.1

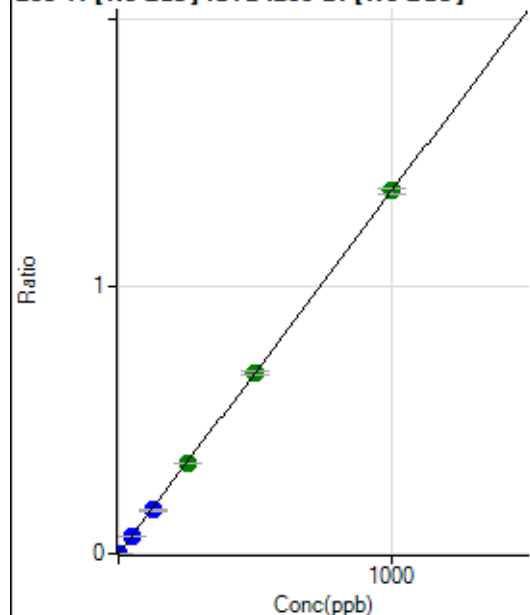
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			107.78		P	9.4
2	☐			112.22		P	23.1
3	☐			98.89		P	15.9
4	☐			132.22		P	27.8
5	☐			113.33		P	5.9
6	☐			112.23		P	24.0
7	☐			157.78		P	7.4
8	☐			200.00		P	13.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.33		P	43.1
2	☐			54.45		P	37.4
3	☐			54.44		P	25.5
4	☐			68.89		P	2.8
5	☐			65.55		P	16.3
6	☐			68.89		P	14.0
7	☐			100.00		P	20.0
8	☐			110.00		P	16.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0000	P	35.0
2	☐	1.000	0.906	11101.29	0.0012	P	2.3
3	☐	50.000	48.463	576492.94	0.0658	P	2.5
4	☐	125.000	119.838	1413030.90	0.1626	P	1.8
5	☐	250.000	250.766	2955366.66	0.3403	A	0.9
6	☐	500.000	498.378	5765833.04	0.6763	A	2.1
7	☐	1000.000	1001.342	11441787.19	1.3588	A	1.5
8	☐			973.38	0.0001	P	5.6

$$y = 0.0014 * x + 8.4591E-006$$

$$R = 1.0000$$

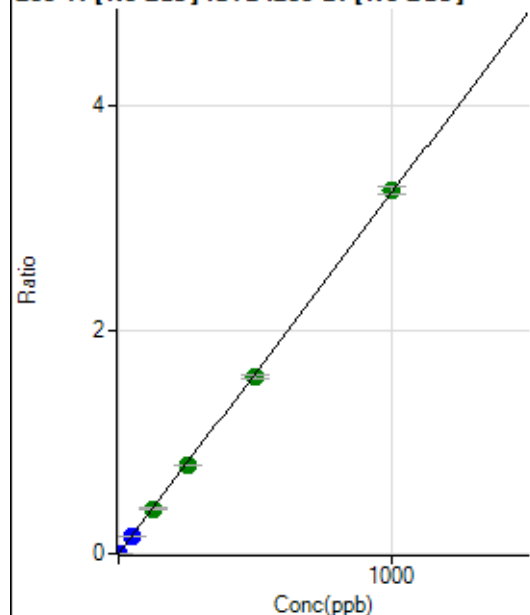
$$DL = 0.006553$$

$$BEC = 0.006234$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	180.00	0.0000	P	18.5
2	☐	1.000	0.893	26023.79	0.0029	P	2.2
3	☐	50.000	48.428	1369022.01	0.1562	P	2.2
4	☐	125.000	124.550	3489985.37	0.4016	A	1.3
5	☐	250.000	246.108	6892742.05	0.7936	A	0.4
6	☐	500.000	491.570	13514200.50	1.5851	A	2.2
7	☐	1000.000	1005.323	27296660.15	3.2417	A	2.2
8	☐			2150.20	0.0003	P	7.7

$$y = 0.0032 * x + 2.0777E-005$$

$$R = 0.9999$$

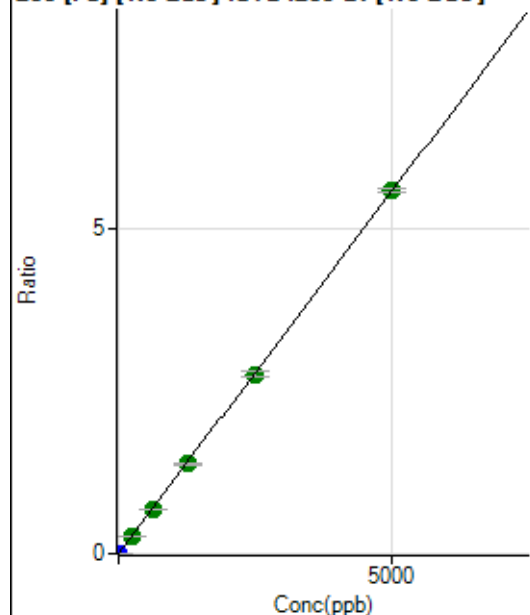
$$DL = 0.003575$$

$$BEC = 0.006443$$

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	224.45	0.0000	P	8.4
2	☐	1.000	0.883	9060.86	0.0010	P	2.4
3	☐	250.000	250.695	2451137.38	0.2796	A	1.1
4	☐	625.000	618.235	5991257.62	0.6894	A	0.9
5	☐	1250.000	1239.070	12000458.85	1.3818	A	1.5
6	☐	2500.000	2481.683	23594536.04	2.7675	A	2.8
7	☐	5000.000	5012.702	47072836.52	5.5899	A	1.2
8	☐			7037.44	0.0011	P	3.9

$$y = 0.0011 * x + 2.5912E-005$$

$$R = 1.0000$$

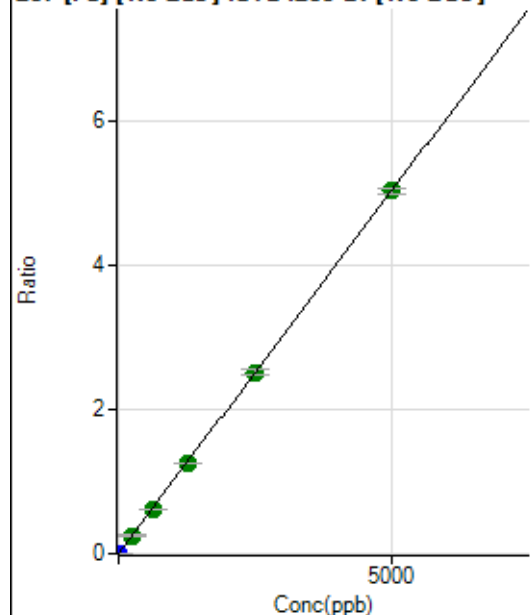
$$DL = 0.00587$$

$$BEC = 0.02324$$

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	195.56	0.0000	P	15.2
2	☐	1.000	0.859	7967.96	0.0009	P	3.6
3	☐	250.000	251.019	2215645.05	0.2528	A	3.4
4	☐	625.000	621.019	5434569.64	0.6254	A	0.5
5	☐	1250.000	1243.319	10873756.64	1.2520	A	1.0
6	☐	2500.000	2502.172	21481966.49	2.5197	A	2.5
7	☐	5000.000	5001.031	42407717.70	5.0360	A	1.4
8	☐			5991.38	0.0009	P	2.8

$$y = 0.0010 * x + 2.2574E-005$$

$$R = 1.0000$$

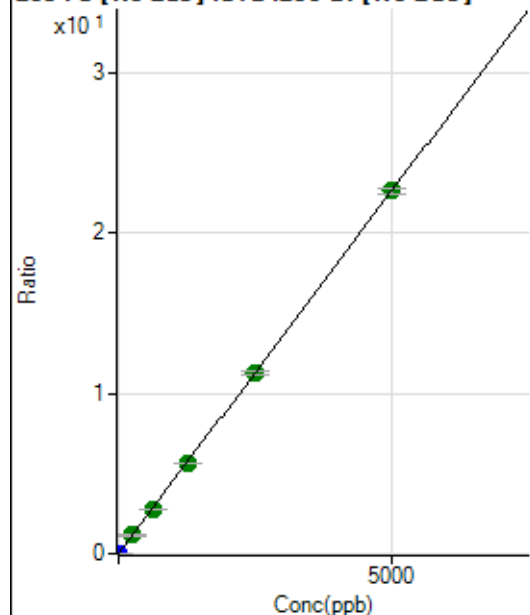
$$DL = 0.01024$$

$$BEC = 0.02242$$

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	876.69	0.0001	P	3.7
2	☐	1.000	0.868	36096.72	0.0040	P	2.1
3	☐	250.000	252.312	9993811.59	1.1400	A	1.8
4	☐	625.000	620.905	24377598.73	2.8053	A	0.7
5	☐	1250.000	1243.936	48810499.27	5.6201	A	1.0
6	☐	2500.000	2495.606	96128529.54	11.2750	A	1.7
7	☐	5000.000	5004.109	190381622.7	22.6082	A	1.4
8	☐			27612.30	0.0041	P	3.8

$$y = 0.0045 * x + 1.0123E-004$$

$$R = 1.0000$$

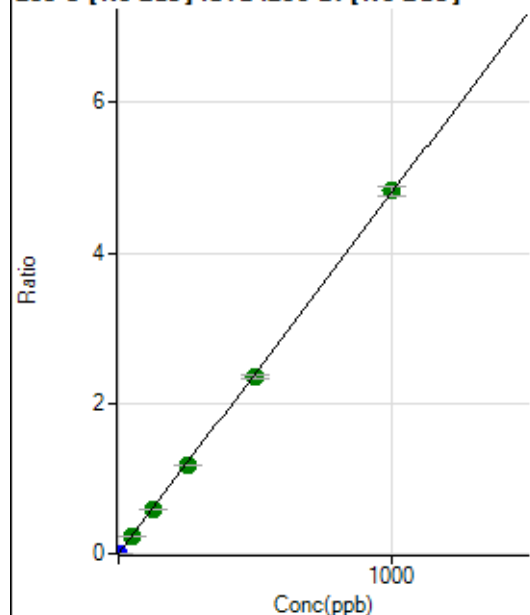
$$DL = 0.002492$$

$$BEC = 0.02241$$

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	16.67	0.0000	P	52.7
2	☐	1.000	0.823	35399.64	0.0039	P	3.9
3	☐	50.000	48.568	2040676.95	0.2328	A	2.5
4	☐	125.000	122.464	5100968.78	0.5870	A	1.2
5	☐	250.000	247.008	10283008.46	1.1840	A	0.7
6	☐	500.000	489.663	20010698.04	2.3471	A	2.2
7	☐	1000.000	1006.306	40614755.23	4.8235	A	2.3
8	☐			2170.21	0.0003	P	10.6

$$y = 0.0048 * x + 1.9225E-006$$

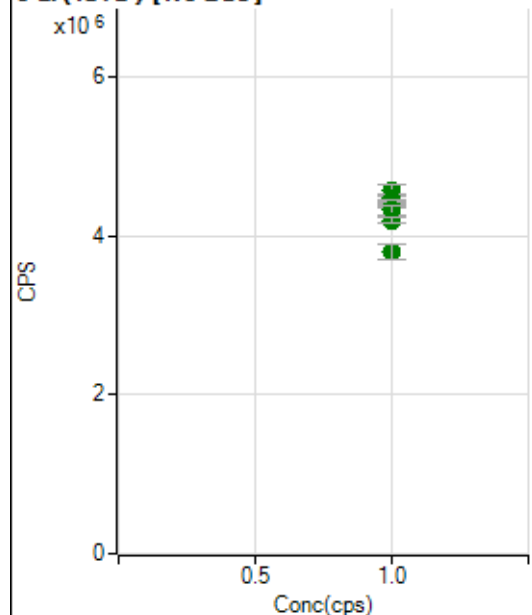
$$R = 0.9999$$

$$DL = 0.0006345$$

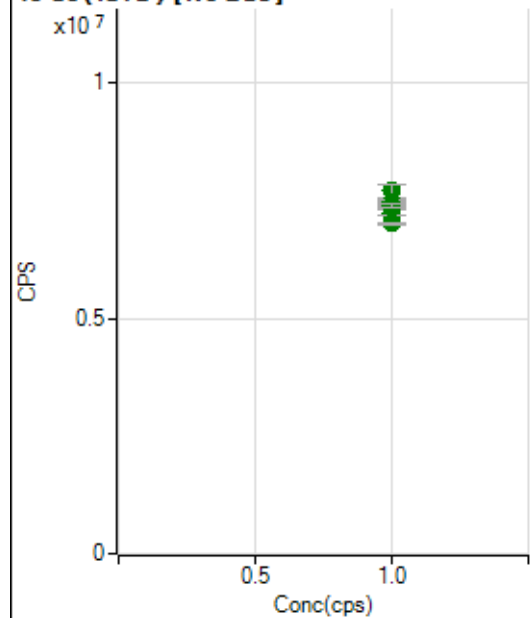
$$BEC = 0.0004011$$

Weight: <None>

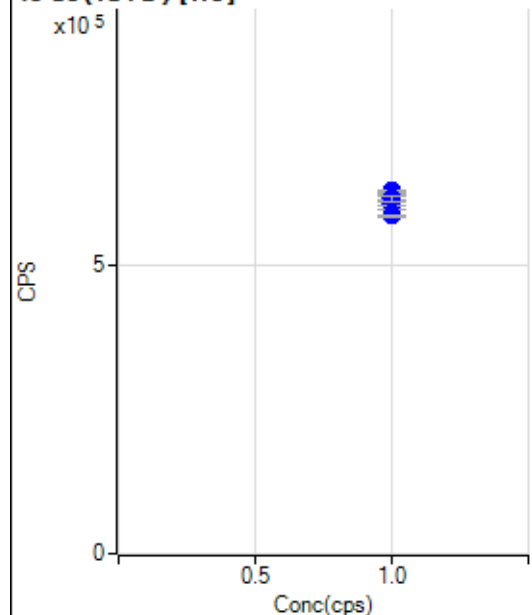
Min Conc: 0

6 Li (ISTD) [No Gas]

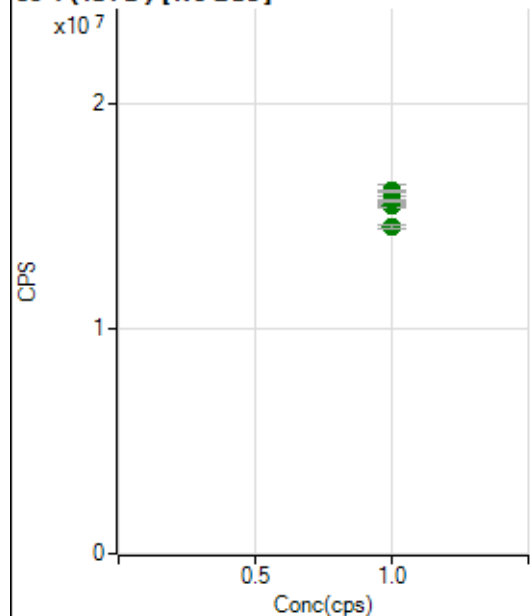
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4398254.03		A	1.8
2	☐	1.000		4569995.94		A	3.1
3	☐	1.000		4479298.37		A	2.0
4	☐	1.000		4430081.84		A	0.4
5	☐	1.000		4446431.36		A	0.7
6	☐	1.000		4326766.71		A	2.6
7	☐	1.000		4202059.35		A	1.8
8	☐	1.000		3803623.52		A	5.0

45 Sc (ISTD) [No Gas]

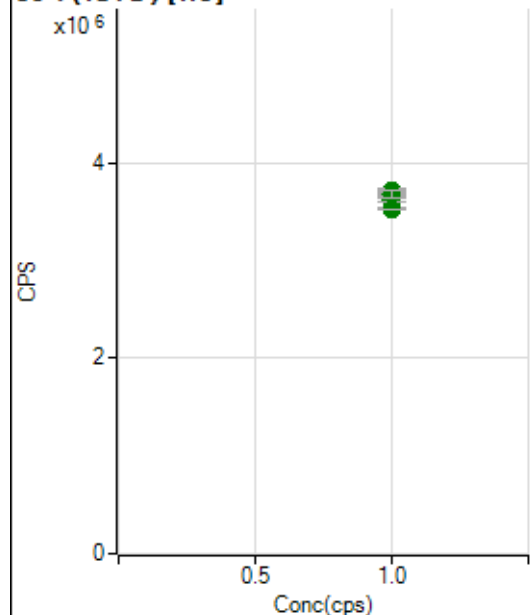
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7450771.90		A	1.0
2	☐	1.000		7714356.55		A	4.0
3	☐	1.000		7492117.80		A	1.0
4	☐	1.000		7336020.65		A	1.0
5	☐	1.000		7253006.35		A	1.3
6	☐	1.000		7367019.54		A	0.7
7	☐	1.000		7409117.67		A	1.2
8	☐	1.000		7024096.98		A	0.4

45 Sc (ISTD) [He]

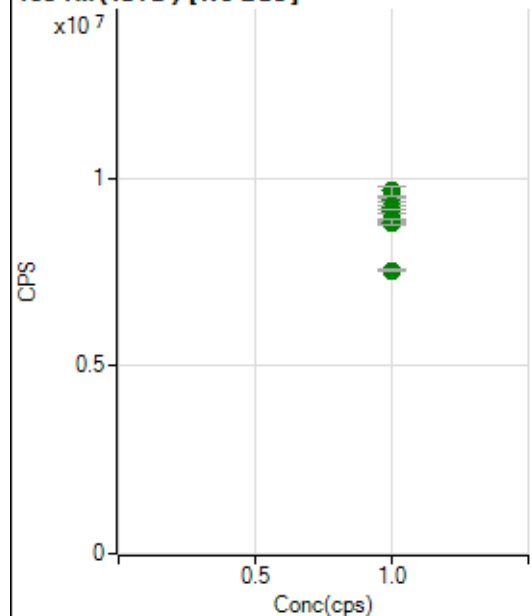
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		624335.39		P	0.2
2	☐	1.000		629666.41		P	0.6
3	☐	1.000		611718.74		P	0.5
4	☐	1.000		603591.45		P	1.8
5	☐	1.000		606989.56		P	1.1
6	☐	1.000		606734.26		P	1.0
7	☐	1.000		615860.52		P	1.3
8	☐	1.000		585789.61		P	0.6

89 Y (ISTD) [No Gas]

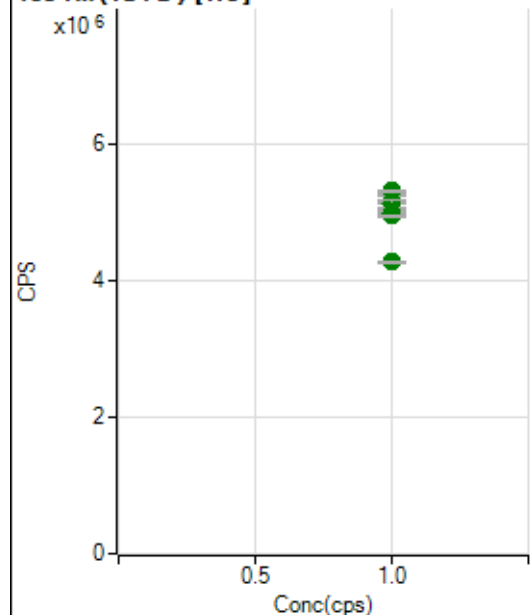
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15611186.15		A	1.1
2	☐	1.000		16148581.56		A	3.1
3	☐	1.000		15677301.71		A	0.6
4	☐	1.000		15666645.74		A	1.2
5	☐	1.000		15503842.96		A	1.3
6	☐	1.000		15734891.43		A	0.6
7	☐	1.000		16151108.37		A	0.8
8	☐	1.000		14525994.92		A	1.1

89 Y (ISTD) [He]

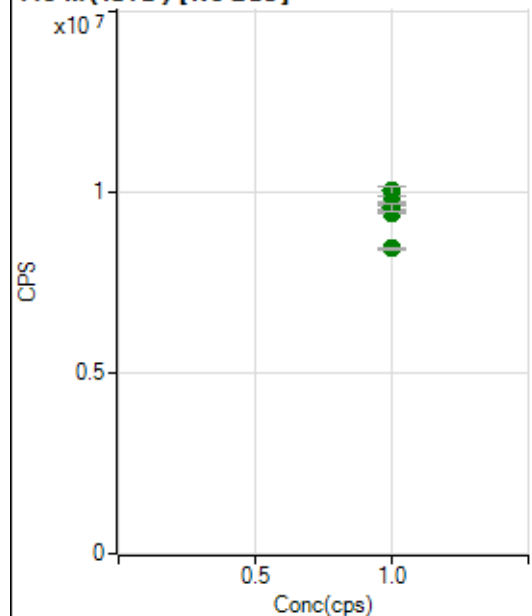
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3713340.15		A	0.6
2	☐	1.000		3715953.94		A	1.0
3	☐	1.000		3684594.25		A	0.4
4	☐	1.000		3599405.47		A	3.2
5	☐	1.000		3629683.69		A	1.6
6	☐	1.000		3675579.29		A	1.6
7	☐	1.000		3684974.70		A	1.8
8	☐	1.000		3526182.34		A	0.5

103 Rh (ISTD) [No Gas]

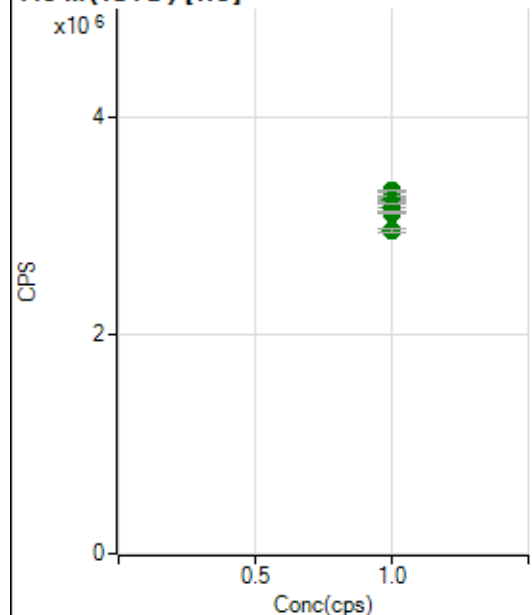
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9421629.79		A	1.0
2	☐	1.000		9651662.28		A	2.9
3	☐	1.000		9217107.64		A	1.3
4	☐	1.000		9095936.05		A	0.8
5	☐	1.000		8887694.45		A	0.3
6	☐	1.000		8808151.19		A	0.4
7	☐	1.000		8822029.52		A	1.6
8	☐	1.000		7539419.68		A	0.7

103 Rh (ISTD) [He]

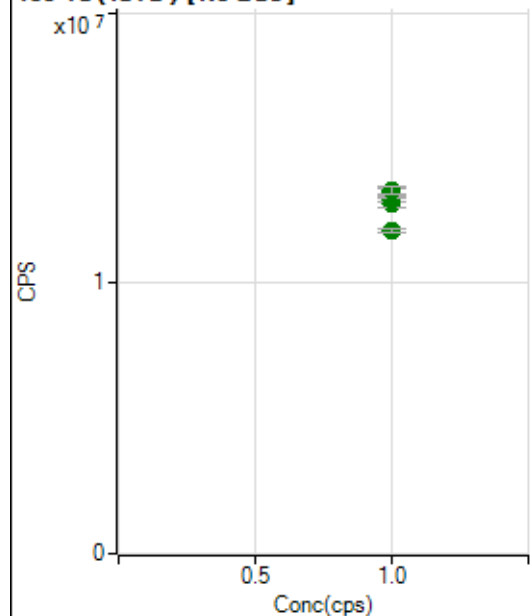
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5250674.57		A	0.7
2	☐	1.000		5308748.60		A	0.6
3	☐	1.000		5143129.47		A	0.3
4	☐	1.000		5111893.53		A	3.1
5	☐	1.000		5022045.62		A	1.2
6	☐	1.000		4978920.06		A	1.2
7	☐	1.000		4950105.27		A	0.6
8	☐	1.000		4264481.81		A	1.1

115 In (ISTD) [No Gas]

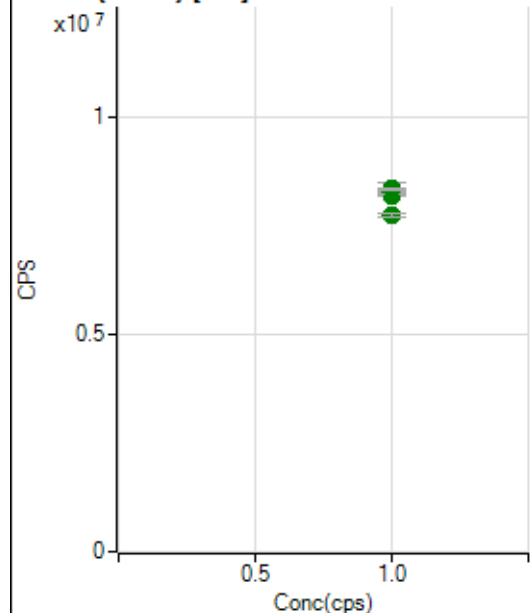
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9623909.87		A	0.6
2	☐	1.000		10020089.68		A	2.7
3	☐	1.000		9721145.44		A	0.3
4	☐	1.000		9665075.21		A	1.3
5	☐	1.000		9451348.26		A	0.8
6	☐	1.000		9394206.03		A	0.4
7	☐	1.000		9562961.60		A	2.0
8	☐	1.000		8433396.57		A	0.6

115 In (ISTD) [He]

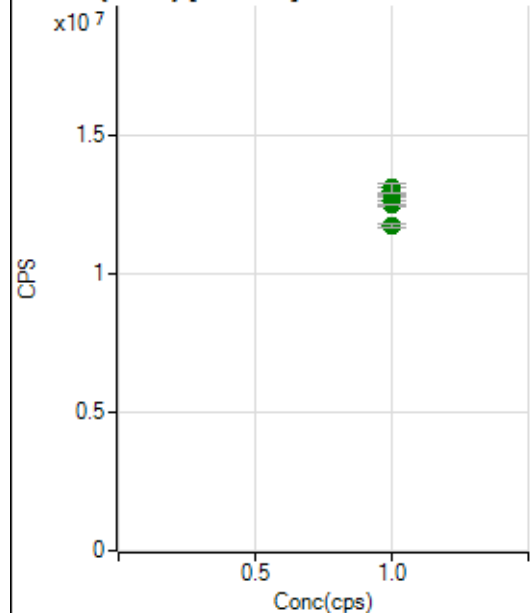
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3245252.11		A	0.9
2	☐	1.000		3318295.46		A	0.7
3	☐	1.000		3239280.30		A	0.9
4	☐	1.000		3220193.03		A	3.0
5	☐	1.000		3193034.43		A	1.4
6	☐	1.000		3157224.62		A	2.3
7	☐	1.000		3119401.16		A	0.4
8	☐	1.000		2953787.51		A	0.8

159 Tb (ISTD) [No Gas]

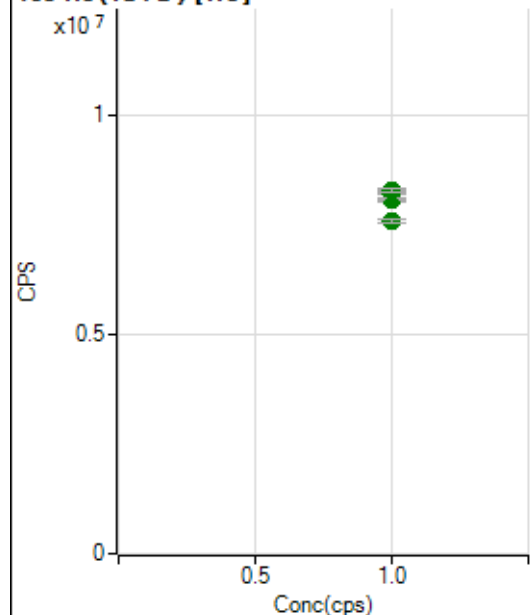
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12929610.64		A	1.7
2	☐	1.000		13403328.97		A	1.9
3	☐	1.000		13132564.80		A	1.2
4	☐	1.000		13096143.42		A	1.1
5	☐	1.000		13212667.44		A	0.6
6	☐	1.000		13194203.41		A	0.6
7	☐	1.000		13425611.05		A	2.1
8	☐	1.000		11954727.46		A	1.7

159 Tb (ISTD) [He]

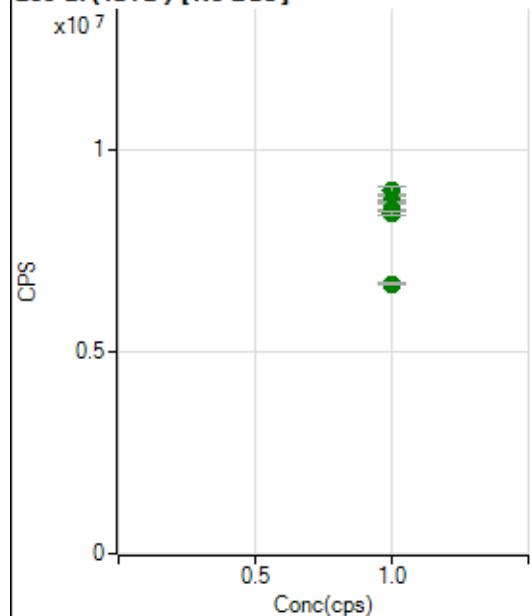
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8183229.25		A	0.3
2	☐	1.000		8294007.31		A	0.8
3	☐	1.000		8226779.46		A	0.3
4	☐	1.000		8336931.47		A	3.1
5	☐	1.000		8270742.52		A	1.8
6	☐	1.000		8260071.06		A	1.2
7	☐	1.000		8340899.67		A	0.6
8	☐	1.000		7726184.68		A	1.2

165 Ho (ISTD) [No Gas]

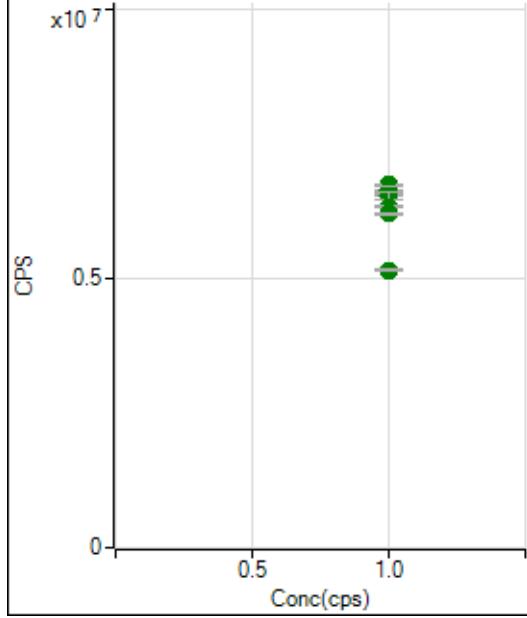
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12497105.37		A	1.8
2	☐	1.000		12949063.69		A	2.3
3	☐	1.000		12645536.06		A	2.2
4	☐	1.000		12805652.58		A	0.8
5	☐	1.000		12803473.00		A	0.0
6	☐	1.000		12921053.83		A	0.1
7	☐	1.000		13086393.41		A	2.6
8	☐	1.000		11710515.10		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8059766.41		A	0.4
2	☐	1.000		8240095.99		A	0.9
3	☐	1.000		8087121.76		A	0.4
4	☐	1.000		8215714.39		A	1.8
5	☐	1.000		8212473.77		A	2.6
6	☐	1.000		8192584.67		A	1.6
7	☐	1.000		8283654.95		A	1.2
8	☐	1.000		7594781.83		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8661274.38		A	0.6
2	☐	1.000		8971942.02		A	2.0
3	☐	1.000		8767991.47		A	1.9
4	☐	1.000		8690022.65		A	0.9
5	☐	1.000		8685298.41		A	0.5
6	☐	1.000		8525982.58		A	0.2
7	☐	1.000		8421922.51		A	1.5
8	☐	1.000		6670114.14		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6611764.21		A	0.5
2	☐	1.000		6727735.60		A	0.5
3	☐	1.000		6588357.75		A	0.5
4	☐	1.000		6623203.86		A	2.6
5	☐	1.000		6520545.25		A	2.1
6	☐	1.000		6325210.67		A	0.7
7	☐	1.000		6189669.00		A	0.8
8	☐	1.000		5148971.94		A	0.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7031423 MS1.b
Acq. Date-Time 2023-03-14 11:55:44
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		17044	170442.24			0.155	5.000
24		174270	1742703.69			0.240	5.000
25		24691	246914.34			0.549	5.000
26		27801	278006.88			0.605	5.000
59		111639	1116393.40			0.659	5.000
113		11313	113127.76			0.739	5.000
115		143512	1435119.24			0.535	5.000
206		36540	365397.70			0.450	5.000
207		33525	335248.95			0.368	5.000
208		79113	791126.89			0.423	5.000
220		0	2.20			47.128	

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

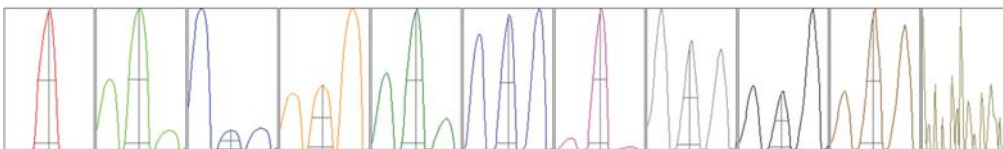
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17038	17083	17009	17046	17045
24	173669	174676	174658	174229	174120
25	24692	24622	24896	24719	24529
26	27577	27673	27948	27949	27857
59	111655	110686	112273	111155	112428
113	11187	11415	11329	11343	11290
115	143794	143173	144699	143190	142704
206	36770	36640	36372	36414	36503
207	33522	33679	33340	33509	33574
208	79221	79106	79564	79037	78636

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	31456.28	9.00	8.90 - 9.10	
24	290037.32	23.95	23.90 - 24.10	
25	39507.78	24.95	24.90 - 25.10	
26	44979.60	25.95	25.90 - 26.10	
59	216249.32	59.00	58.90 - 59.10	
113	25456.83	113.05	112.90 - 113.10	
115	319453.69	115.05	114.90 - 115.10	
206	77514.36	205.95	205.90 - 206.10	
207	72413.52	206.95	206.90 - 207.10	
208	173125.73	207.95	207.90 - 208.10	
220	0.00	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.815	0.900	
24	0.64	0.824	0.900	
25	0.65	0.793	0.900	
26	0.65	0.831	0.900	
59	0.53	0.767	0.900	
113	0.45	0.683	0.900	
115	0.45	0.683	0.900	
206	0.46	0.770	0.900	
207	0.46	0.727	0.900	
208	0.46	0.752	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

0.82 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	9.2 V	Deflect	15.4 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 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	170 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.2 mm
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EM

Discriminator	3.1 mV	Analog HV	2255 V	Pulse HV	1483 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		36665	366645.24			0.469	
89		62734	627338.13			3.026	
205		32774	327744.37			1.080	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	36416	36599	36859	36663	36785
89	63819	64174	60409	60939	64327
205	32448	32362	33129	33080	32853

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	9.3 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.2 mm
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EM

Discriminator	3.1 mV	Analog HV	2255 V	Pulse HV	1483 V
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