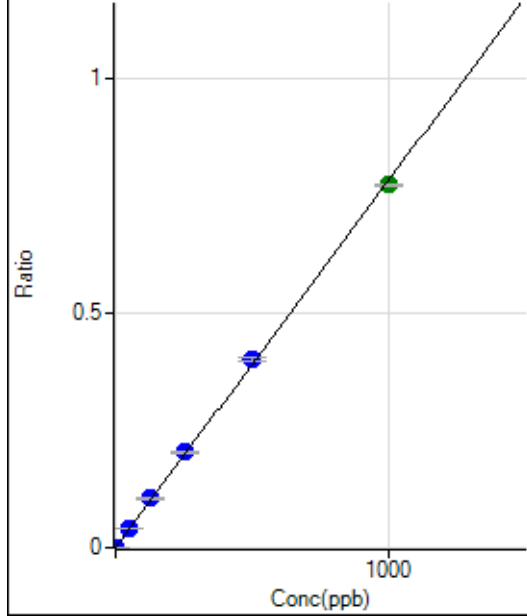


Calibration for 017ICSA.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7040623 MS.b\
 Analysis File: P7040623 MS.batch.bin
 DA Date-Time: 2023-04-11 08:38:51
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-04-06 14:22:17
2	006CALS.d	S02	2023-04-06 14:28:49
3	007CALS.d	S03	2023-04-06 14:32:05
4	008CALS.d	S04	2023-04-06 14:35:12
5	009CALS.d	S05	2023-04-06 14:38:53
6	010CALS.d	S06	2023-04-06 14:41:45
7	011CALS.d	S07	2023-04-06 14:44:30
8	012CALS.d	S08	2023-04-06 14:47:18

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0000	P	25.5
2	☐	1.000	1.128	1672.33	0.0009	P	7.2
3	☐	50.000	53.699	74354.31	0.0420	P	2.9
4	☐	125.000	135.047	181895.59	0.1055	P	4.9
5	☐	250.000	260.678	353508.21	0.2037	P	1.8
6	☐	500.000	514.830	694497.23	0.4022	P	2.2
7	☐	1000.000	988.475	1305850.49	0.7722	A	0.7
8	☐			565.57	0.0004	P	6.9

$$y = 7.8114\text{E-}004 * x + 3.8634\text{E-}005$$

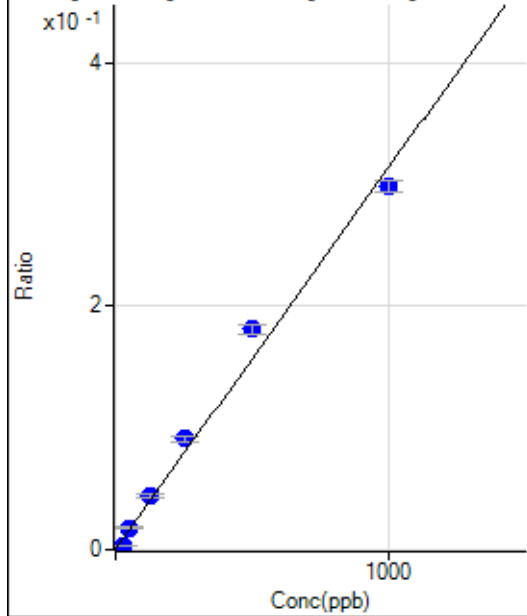
$$R = 0.9997$$

$$DL = 0.03784$$

$$BEC = 0.04946$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	331.12	0.0002	P	12.6
2	☐	25.000	8.527	5197.58	0.0029	P	2.2
3	☐	50.000	56.739	31803.81	0.0180	P	8.3
4	☐	125.000	141.182	76533.15	0.0444	P	8.7
5	☐	250.000	289.243	157698.93	0.0909	P	4.3
6	☐	500.000	576.726	312525.20	0.1810	P	4.5
7	☐	1000.000	949.878	503903.25	0.2980	P	3.3
8	☐			18427.86	0.0123	P	14.8

$$y = 3.1353\text{E-}004 * x + 1.8323\text{E-}004$$

$$R = 0.9939$$

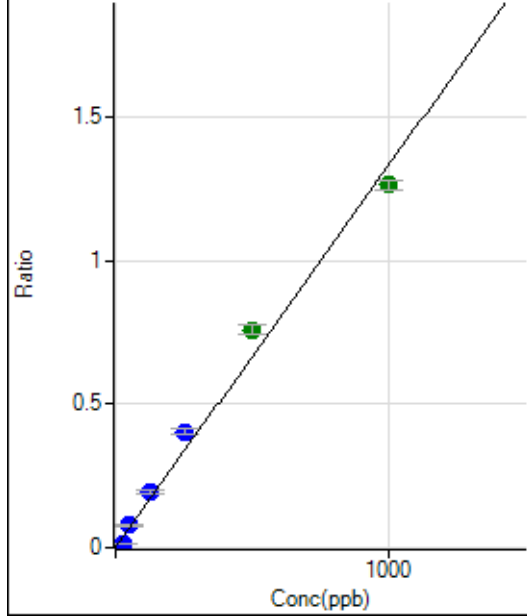
$$DL = 0.2206$$

$$BEC = 0.5844$$

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	1572.32	0.0009	P	4.0
2	☐	25.000	8.717	22731.22	0.0125	P	3.5
3	☐	50.000	59.270	141315.23	0.0799	P	7.5
4	☐	125.000	146.052	336738.77	0.1955	P	7.4
5	☐	250.000	302.607	701253.35	0.4041	P	5.1
6	☐	500.000	569.608	1312083.53	0.7599	A	4.6
7	☐	1000.000	949.356	2140822.59	1.2660	A	2.9
8	☐			81103.71	0.0539	P	15.3

$$y = 0.0013 * x + 8.6954E-004$$

$$R = 0.9938$$

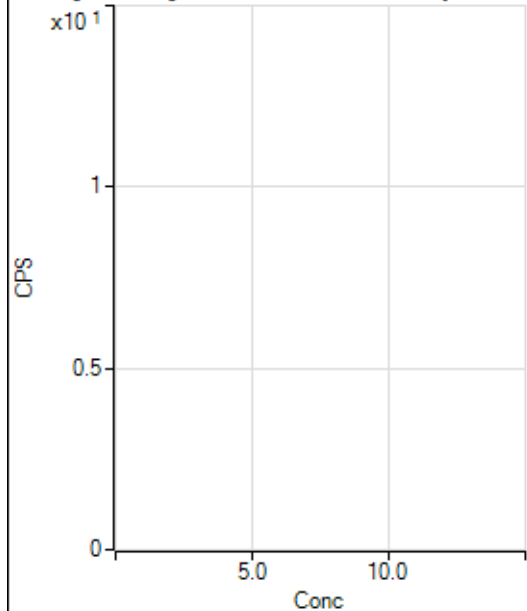
$$DL = 0.0775$$

$$BEC = 0.6525$$

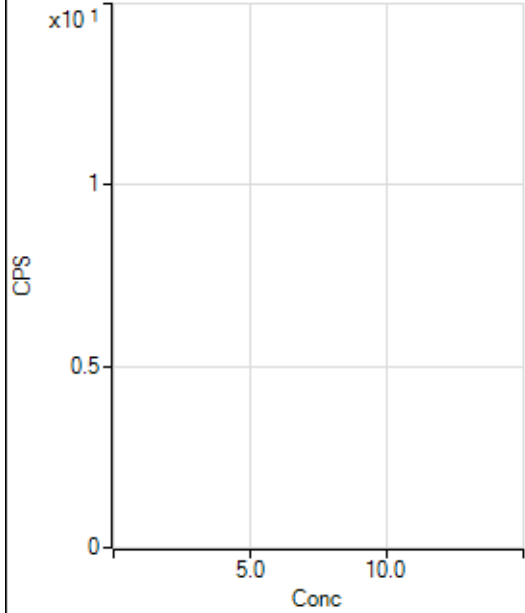
Weight: <None>

Min Conc: 0

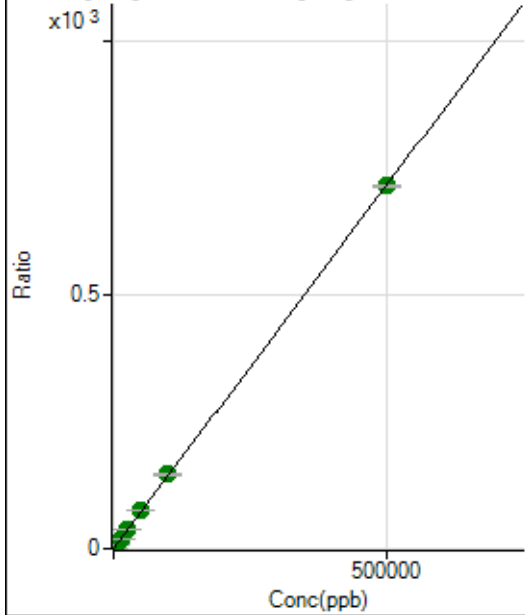
12 C [No Gas] No available calibration points



	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	12010.33	0.0382	P	1.4
2	☐	500.000	515.459	246988.37	0.7770	P	0.7
3	☐	5000.000	5348.704	2411234.84	7.7043	A	1.3
4	☐	12500.000	13168.347	5734792.69	18.9118	A	1.1
5	☐	25000.000	26120.184	11376203.16	37.4752	A	0.3
6	☐	50000.000	52139.136	22864953.55	74.7670	A	0.8
7	☐	100000.00	102193.77	44730494.89	146.5082	A	1.7
8	☐	500000.00	499271.11	194279297.1	715.6224	A	0.2

$$y = 0.0014 * x + 0.0382$$

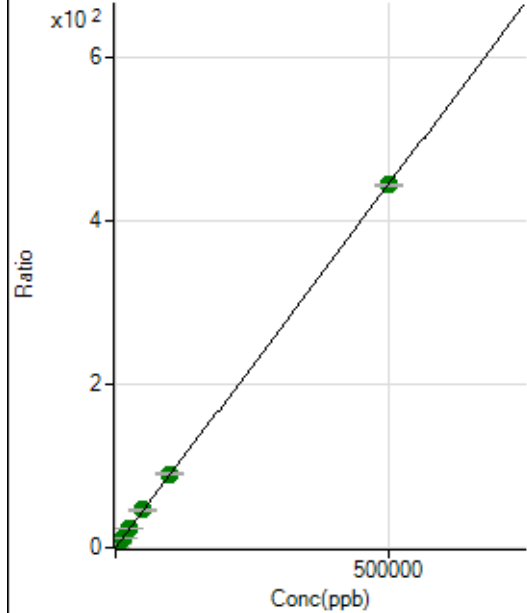
$$R = 1.0000$$

$$DL = 1.121$$

$$BEC = 26.65$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	484.46	0.0015	P	6.7
2	☐	500.000	509.680	144755.82	0.4554	P	0.5
3	☐	5000.000	5388.913	1502229.23	4.7999	A	1.6
4	☐	12500.000	13399.742	3618576.89	11.9329	A	0.2
5	☐	25000.000	26021.212	7033860.45	23.1712	A	0.9
6	☐	50000.000	51723.816	14085053.96	46.0572	A	1.2
7	☐	100000.00	101243.26	27524052.65	90.1501	A	1.6
8	☐	500000.00	499501.51	120746374.8	444.7655	A	0.2

$$y = 8.9042\text{E-}004 * x + 0.0015$$

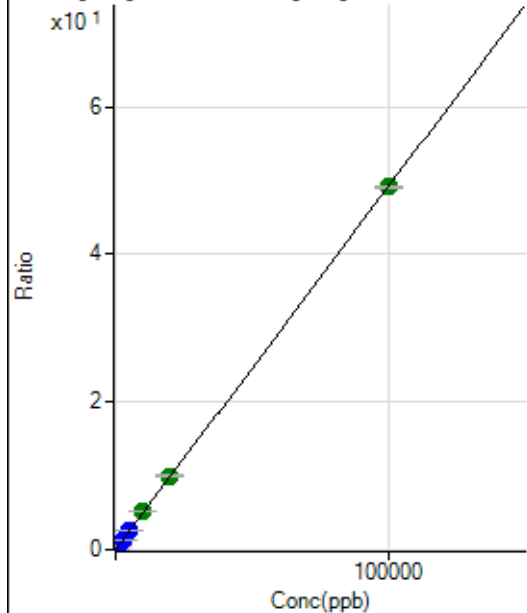
$$R = 1.0000$$

$$DL = 0.3453$$

$$BEC = 1.73$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.22	0.0003	P	27.4
2	☐	20.000	20.731	3344.84	0.0105	P	2.8
3	☐	1000.000	1104.975	170229.75	0.5439	P	0.3
4	☐	2500.000	2721.568	406092.03	1.3391	P	0.7
5	☐	5000.000	5243.529	783127.67	2.5797	P	0.2
6	☐	10000.000	10416.680	1567199.60	5.1246	A	0.5
7	☐	20000.000	20332.169	3053555.06	10.0022	A	2.5
8	☐	100000.00	99873.133	13338272.58	49.1305	A	0.7

$$y = 4.9193\text{E-}004 * x + 3.2482\text{E-}004$$

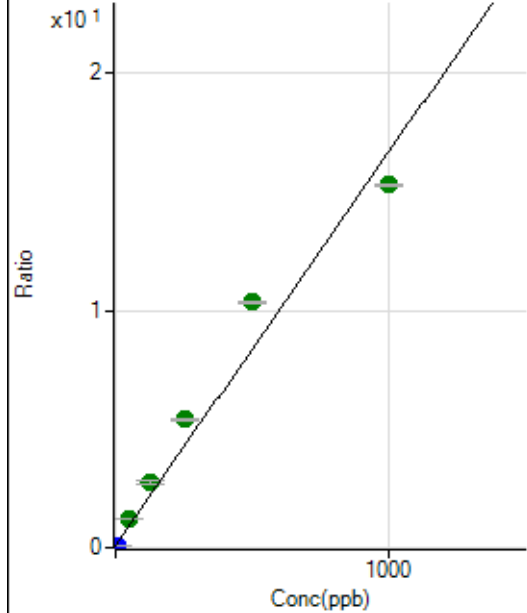
$$R = 1.0000$$

$$DL = 0.5423$$

$$BEC = 0.6603$$

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	323917.67	0.0837	P	0.8
2	☐	10.000	0.566	372184.12	0.0931	P	0.9
3	☐	50.000	67.924	4626159.44	1.2090	A	3.5
4	☐	125.000	162.040	10137523.74	2.7681	A	6.7
5	☐	250.000	321.199	20319087.61	5.4047	A	2.3
6	☐	500.000	618.449	38717591.64	10.3290	A	0.4
7	☐	1000.000	917.544	57575182.47	15.2839	A	0.8
8	☐			748617.38	0.2209	P	10.3

$$y = 0.0166 * x + 0.0837$$

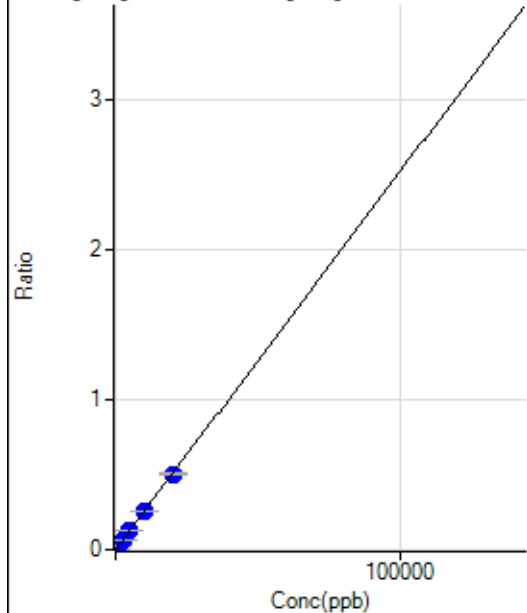
$$R = 0.9849$$

$$DL = 0.1264$$

$$BEC = 5.054$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-9.911	256.67	0.0008	P	3.4
2	☐	0.000	9.911	418.90	0.0013	P	7.2
3	☐	1000.000	1035.825	8534.67	0.0273	P	4.0
4	☐	2500.000	2593.722	20222.34	0.0667	P	0.3
5	☐	5000.000	5015.968	38845.94	0.1280	P	1.0
6	☐	10000.000	10159.851	78931.01	0.2581	P	0.8
7	☐	20000.000	19902.576	154068.95	0.5046	P	1.2
8	☐			321.12	0.0012	P	7.0

$$y = 2.5299E-005 * x + 0.0011$$

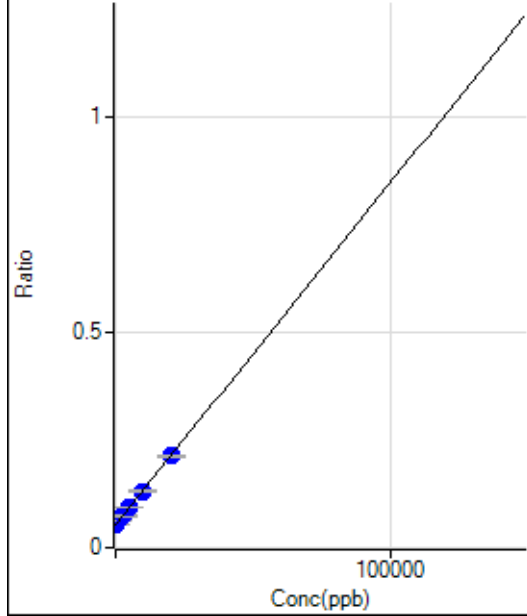
$$R = 0.9999$$

$$DL = 7.291$$

$$BEC = 42.17$$

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	51.889	207372.46	0.0536	P	1.1
2	☐	0.000	-51.889	210976.13	0.0528	P	0.6
3	☐	1000.000	1228.023	241010.89	0.0630	P	0.7
4	☐	2500.000	2778.151	276060.69	0.0753	P	4.8
5	☐	5000.000	4995.119	349633.13	0.0930	P	1.2
6	☐	10000.000	9853.420	493654.65	0.1317	P	0.5
7	☐	20000.000	20028.340	801465.60	0.2128	P	0.6
8	☐			179240.00	0.0528	P	1.9

$$y = 7.9672E-006 * x + 0.0532$$

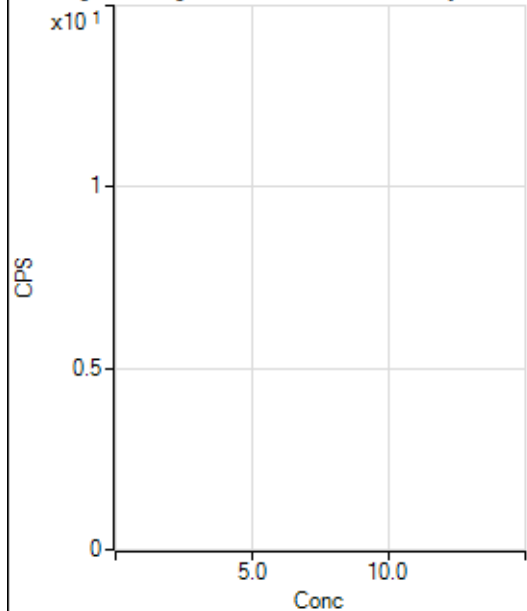
$$R = 0.9998$$

$$DL = 174.7$$

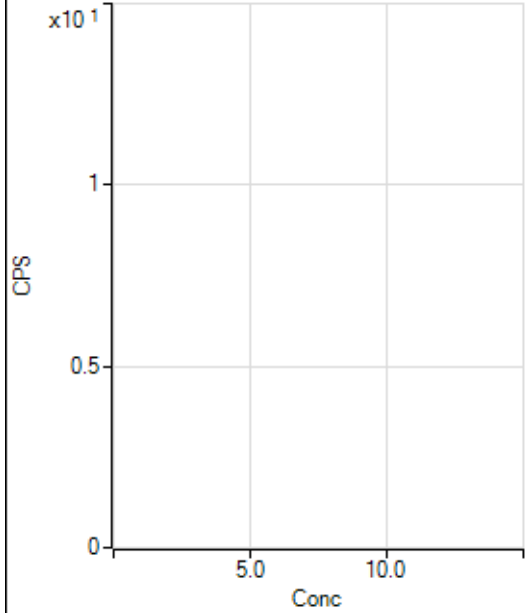
$$BEC = 6676$$

Weight: <None>

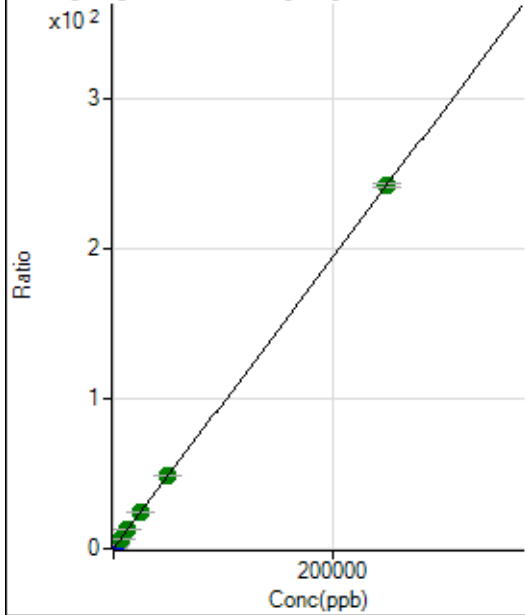
Min Conc: 0

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	49710.89	0.1581	P	1.0
2	☐	500.000	514.027	208050.92	0.6545	P	0.5
3	☐	2500.000	2721.144	871905.79	2.7858	P	0.5
4	☐	6250.000	6485.422	1947041.18	6.4208	A	0.8
5	☐	12500.000	12680.207	3765127.58	12.4028	A	0.4
6	☐	25000.000	25404.728	7550761.62	24.6903	A	1.7
7	☐	50000.000	50163.286	14838547.70	48.5985	A	1.1
8	☐	250000.00	249909.73	65559750.14	241.4843	A	1.1

$$y = 9.6565E-004 * x + 0.1581$$

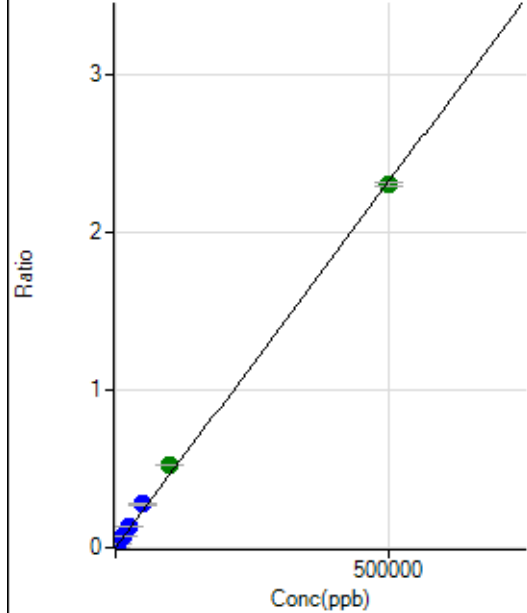
$$R = 1.0000$$

$$DL = 4.774$$

$$BEC = 163.7$$

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	85.56	0.0000	P	12.7
2	☐	500.000	505.860	9464.14	0.0024	P	2.0
3	☐	5000.000	6085.965	108072.24	0.0282	P	2.4
4	☐	12500.000	15640.425	265730.57	0.0725	P	6.2
5	☐	25000.000	29907.423	521462.01	0.1387	P	1.8
6	☐	50000.000	59243.463	1029796.42	0.2747	P	0.8
7	☐	100000.00	113487.40	1982438.55	0.5262	A	0.8
8	☐	500000.00	496043.42	7800410.51	2.3001	A	0.9

$$y = 4.6368\text{E-}006 * x + 2.2129\text{E-}005$$

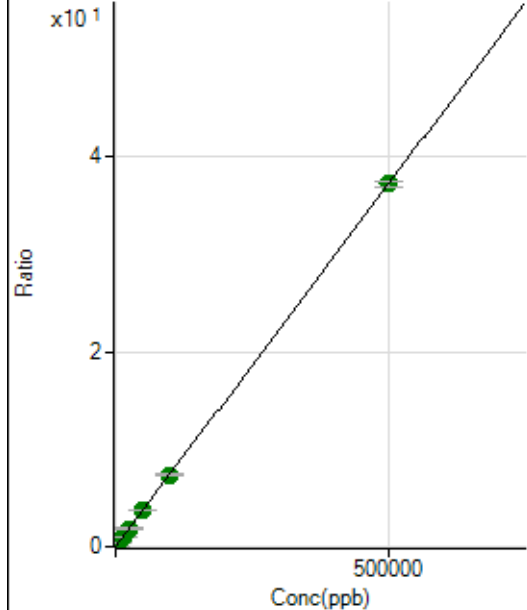
$$R = 0.9995$$

$$DL = 1.82$$

$$BEC = 4.772$$

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	8651.99	0.0022	P	1.9
2	☐	500.000	523.927	164950.35	0.0413	P	0.1
3	☐	5000.000	5061.838	1451514.20	0.3793	A	1.7
4	☐	12500.000	13010.519	3557850.61	0.9714	A	6.5
5	☐	25000.000	25117.683	7042808.27	1.8733	A	1.9
6	☐	50000.000	50085.772	13993755.11	3.7332	A	1.2
7	☐	100000.00	99292.148	27869941.38	7.3986	A	0.8
8	☐	500000.00	500113.70	126343031.6	37.2561	A	1.3

$$y = 7.4491\text{E-}005 * x + 0.0022$$

$$R = 1.0000$$

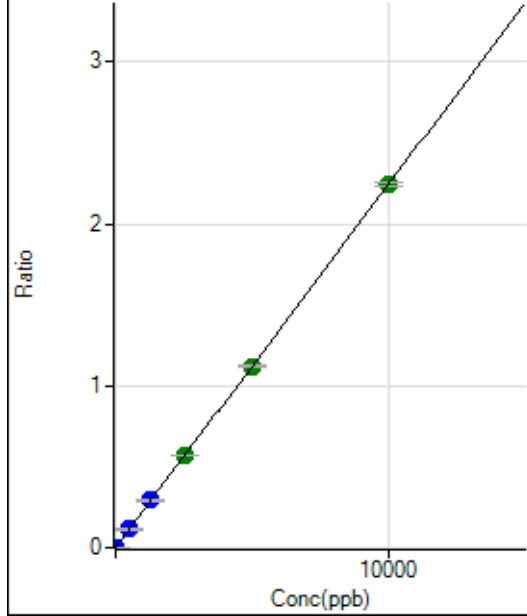
$$DL = 1.667$$

$$BEC = 30.02$$

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	76.66	0.0000	P	33.6
2	☐	5.000	4.750	4342.89	0.0011	P	4.0
3	☐	500.000	508.484	436923.11	0.1142	P	2.3
4	☐	1250.000	1301.228	1070026.94	0.2922	P	6.5
5	☐	2500.000	2533.508	2138744.03	0.5688	A	0.8
6	☐	5000.000	5000.836	4208547.72	1.1227	A	0.4
7	☐	10000.000	9984.378	8443797.16	2.2416	A	1.0
8	☐			1237.84	0.0004	P	18.0

$$y = 2.2451\text{E-}004 * x + 1.9848\text{E-}005$$

$$R = 1.0000$$

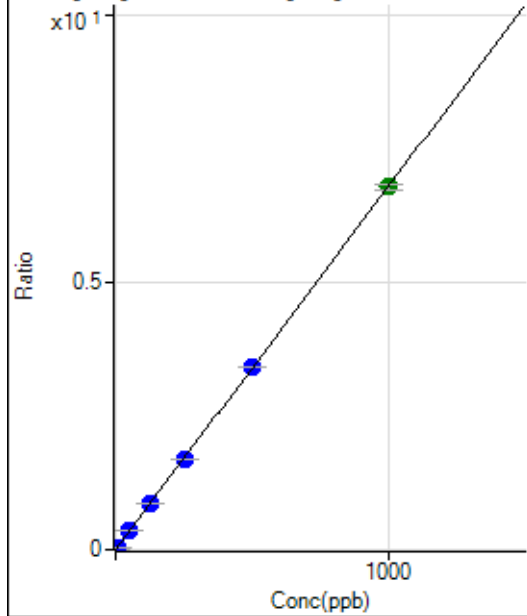
$$DL = 0.0892$$

$$BEC = 0.08841$$

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	5.56	0.0000	P	35.0
2	☐	5.000	4.944	10704.97	0.0337	P	1.2
3	☐	50.000	50.650	107941.33	0.3449	P	0.4
4	☐	125.000	128.146	264585.88	0.8725	P	1.2
5	☐	250.000	250.651	518050.10	1.7066	P	0.5
6	☐	500.000	501.877	1044992.10	3.4170	P	0.4
7	☐	1000.000	998.473	2075519.29	6.7981	A	1.7
8	☐			625.58	0.0023	P	6.3

$$y = 0.0068 * x + 1.7687\text{E-}005$$

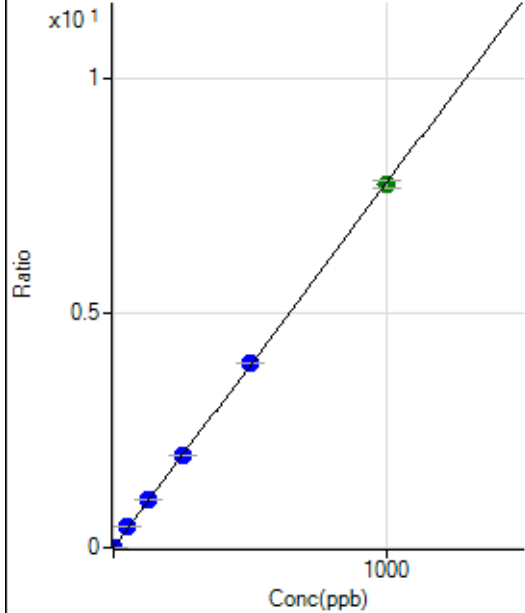
$$R = 1.0000$$

$$DL = 0.002725$$

$$BEC = 0.002598$$

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	764.47	0.0024	P	9.0
2	☐	2.000	2.006	5728.91	0.0180	P	4.0
3	☐	50.000	56.158	137343.00	0.4388	P	0.9
4	☐	125.000	129.483	305854.39	1.0086	P	0.9
5	☐	250.000	253.969	599843.53	1.9760	P	0.1
6	☐	500.000	506.418	1204215.29	3.9377	P	0.8
7	☐	1000.000	994.931	2361074.69	7.7339	A	2.3
8	☐			15979.66	0.0589	P	1.0

$$y = 0.0078 * x + 0.0024$$

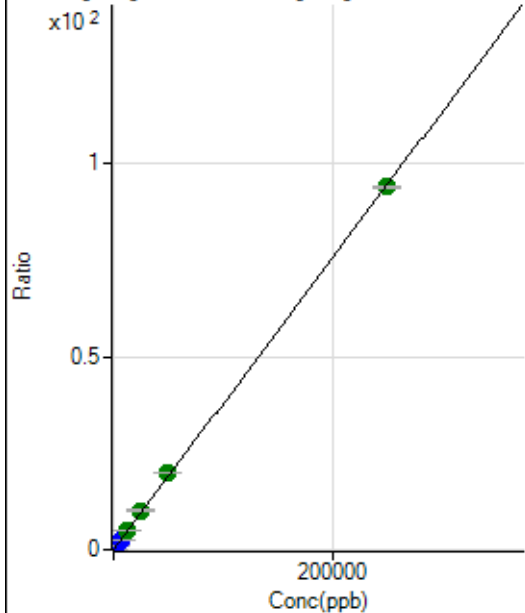
$$R = 0.9999$$

$$DL = 0.08436$$

$$BEC = 0.3128$$

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	1388.97	0.0044	P	3.1
2	☐	50.000	55.255	8026.64	0.0252	P	2.5
3	☐	2500.000	2874.393	340568.98	1.0881	P	0.6
4	☐	6250.000	7092.725	812264.99	2.6786	P	0.6
5	☐	12500.000	13767.276	1577069.49	5.1950	A	0.5
6	☐	25000.000	27026.432	3117392.11	10.1941	A	1.5
7	☐	50000.000	52822.923	6081396.65	19.9200	A	2.3
8	☐	250000.00	249144.59	25502210.73	93.9381	A	0.5

$$y = 3.7702E-004 * x + 0.0044$$

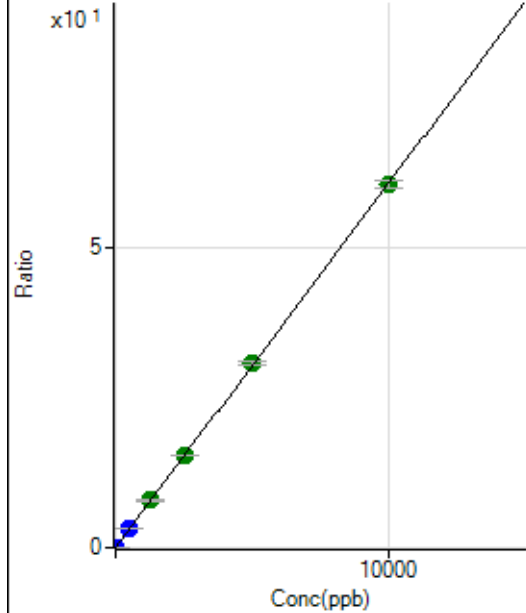
$$R = 0.9999$$

$$DL = 1.092$$

$$BEC = 11.72$$

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	91.11	0.0003	P	24.2
2	☐	1.000	1.020	2054.60	0.0065	P	2.9
3	☐	500.000	515.357	976674.91	3.1206	P	0.9
4	☐	1250.000	1295.161	2378071.96	7.8419	A	0.9
5	☐	2500.000	2521.207	4634004.62	15.2651	A	0.1
6	☐	5000.000	5056.266	9361835.97	30.6138	A	1.6
7	☐	10000.000	9960.152	18410458.76	60.3047	A	2.3
8	☐			8065.56	0.0297	P	0.6

$$y = 0.0061 * x + 2.8972E-004$$

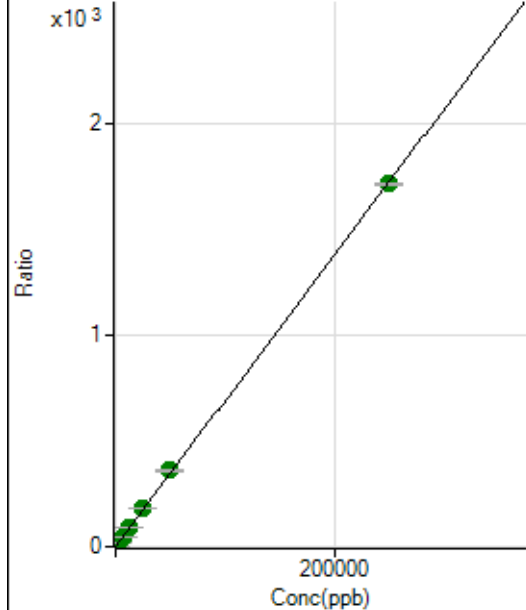
$$R = 1.0000$$

$$DL = 0.03479$$

$$BEC = 0.04785$$

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	8250.10	0.0262	P	1.0
2	☐	50.000	53.044	124371.56	0.3913	P	0.6
3	☐	2500.000	2779.209	5993559.56	19.1510	A	2.0
4	☐	6250.000	6910.193	14427872.84	47.5778	A	0.4
5	☐	12500.000	13383.137	27964309.30	92.1205	A	0.7
6	☐	25000.000	26678.724	56150917.50	183.6123	A	1.0
7	☐	50000.000	52546.430	110408975.0	361.6174	A	1.4
8	☐	250000.00	249259.38	465658553.0	1,715.271	A	0.9

$$y = 0.0069 * x + 0.0262$$

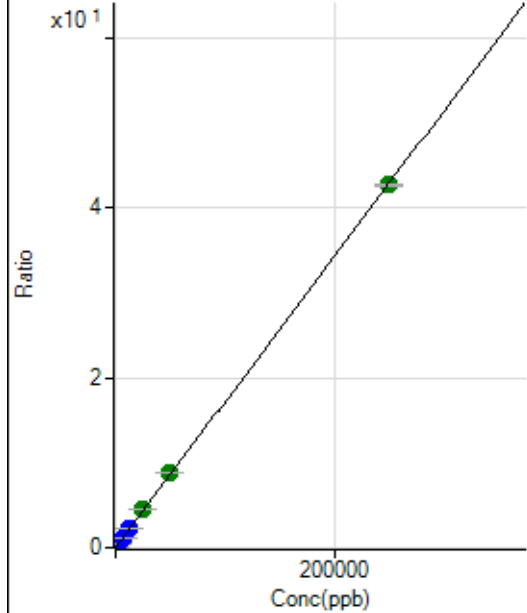
$$R = 0.9999$$

$$DL = 0.1093$$

$$BEC = 3.813$$

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	311.12	0.0010	P	22.6
2	☐	50.000	53.879	3245.94	0.0102	P	3.2
3	☐	2500.000	2804.528	150562.45	0.4811	P	0.5
4	☐	6250.000	6962.709	361719.99	1.1928	P	0.3
5	☐	12500.000	13447.521	699072.29	2.3029	P	0.5
6	☐	25000.000	26612.236	1393456.18	4.5564	A	1.6
7	☐	50000.000	51456.157	2689716.46	8.8090	A	1.2
8	☐	250000.00	249479.30	11593832.74	42.7058	A	0.4

$$y = 1.7118\text{E-}004 * x + 9.8869\text{E-}004$$

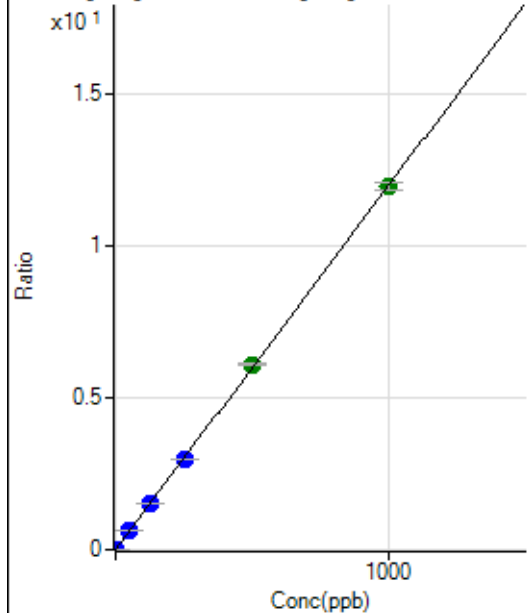
$$R = 1.0000$$

$$DL = 3.922$$

$$BEC = 5.776$$

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	46.67	0.0001	P	43.3
2	☐	1.000	0.977	3768.28	0.0119	P	2.2
3	☐	50.000	50.756	190419.17	0.6084	P	0.6
4	☐	125.000	127.163	462159.20	1.5241	P	0.6
5	☐	250.000	246.476	896696.83	2.9539	P	0.5
6	☐	500.000	507.719	1860739.73	6.0846	A	0.9
7	☐	1000.000	996.713	3646709.84	11.9447	A	2.0
8	☐			3435.98	0.0127	P	2.5

$$y = 0.0120 * x + 1.4858\text{E-}004$$

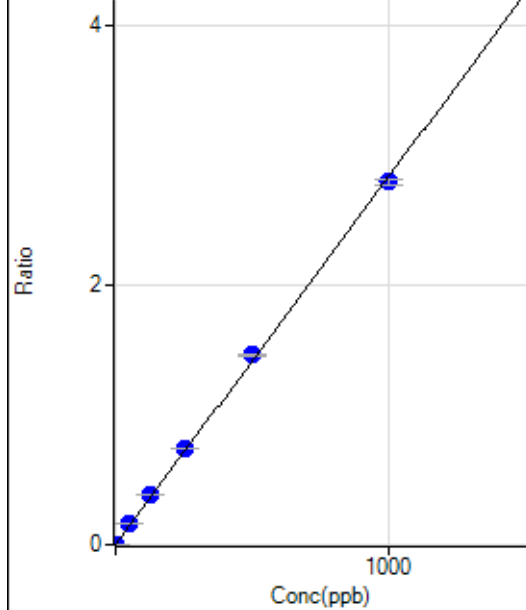
$$R = 0.9999$$

$$DL = 0.01609$$

$$BEC = 0.0124$$

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	63.33	0.0002	P	13.5
2	☐	1.000	0.949	917.81	0.0029	P	2.4
3	☐	50.000	57.509	50997.42	0.1629	P	0.9
4	☐	125.000	136.143	116890.08	0.3855	P	0.9
5	☐	250.000	263.325	226263.92	0.7454	P	0.3
6	☐	500.000	516.528	447059.33	1.4619	P	0.9
7	☐	1000.000	986.637	852502.32	2.7922	P	1.5
8	☐			2036.83	0.0075	P	3.5

$$y = 0.0028 * x + 2.0134E-004$$

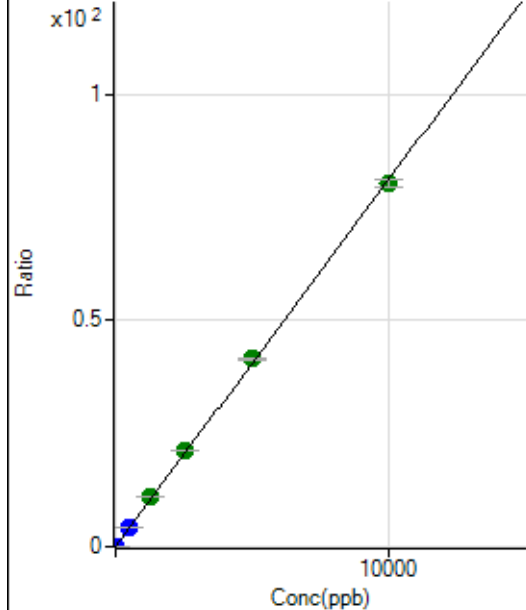
$$R = 0.9997$$

$$DL = 0.0288$$

$$BEC = 0.07115$$

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	692.24	0.0022	P	2.5
2	☐	2.000	2.014	5892.31	0.0185	P	1.5
3	☐	500.000	513.267	1303750.08	4.1656	P	0.9
4	☐	1250.000	1364.763	3357749.92	11.0726	A	0.7
5	☐	2500.000	2633.051	6484527.33	21.3604	A	0.9
6	☐	5000.000	5128.113	12721750.09	41.5994	A	1.3
7	☐	10000.000	9887.672	24486684.64	80.2070	A	2.2
8	☐			3372.63	0.0124	P	1.7

$$y = 0.0081 * x + 0.0022$$

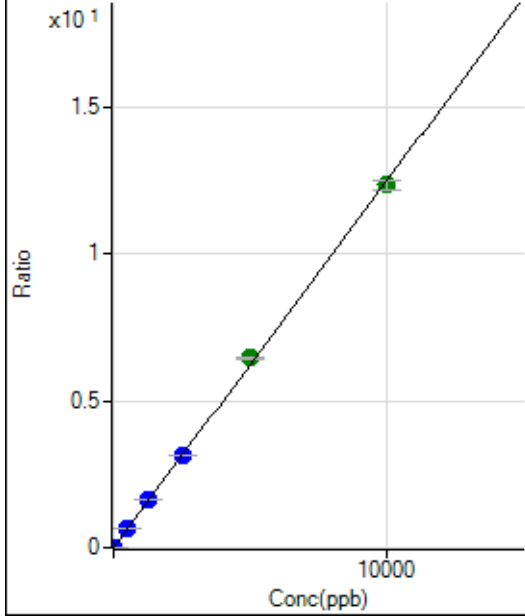
$$R = 0.9997$$

$$DL = 0.02047$$

$$BEC = 0.2714$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	135.56	0.0004	P	29.9
2	☐	2.000	2.262	1034.49	0.0033	P	10.4
3	☐	500.000	514.803	201138.47	0.6427	P	0.9
4	☐	1250.000	1295.901	490374.58	1.6171	P	0.5
5	☐	2500.000	2499.676	946767.47	3.1188	P	0.4
6	☐	5000.000	5180.635	1976584.90	6.4634	A	1.1
7	☐	10000.000	9903.286	3771707.41	12.3550	A	2.7
8	☐			2370.21	0.0087	P	2.2

$$y = 0.0012 * x + 4.3135E-004$$

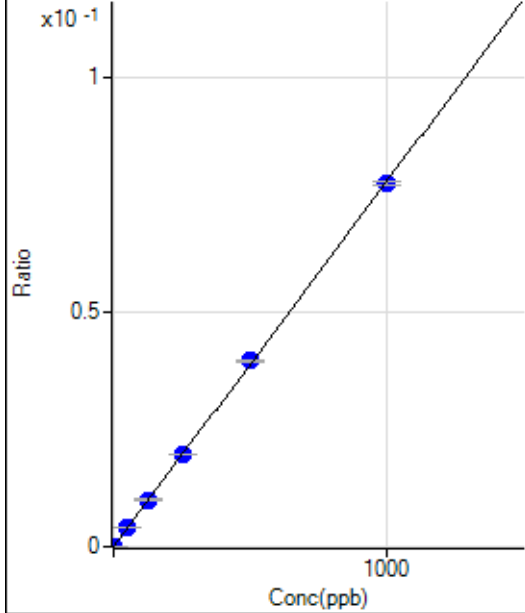
$$R = 0.9998$$

$$DL = 0.3104$$

$$BEC = 0.3458$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.
2	☐	1.000	0.986	257.78	0.0001	P	10.5
3	☐	50.000	51.710	13083.64	0.0040	P	1.8
4	☐	125.000	128.316	32140.33	0.0100	P	1.6
5	☐	250.000	252.122	63021.93	0.0196	P	0.5
6	☐	500.000	508.871	127648.51	0.0396	P	0.8
7	☐	1000.000	994.534	248669.26	0.0774	P	1.2
8	☐			62.22	0.0000	P	27.0

$$y = 7.7816E-005 * x + 6.6843E-007$$

$$R = 0.9999$$

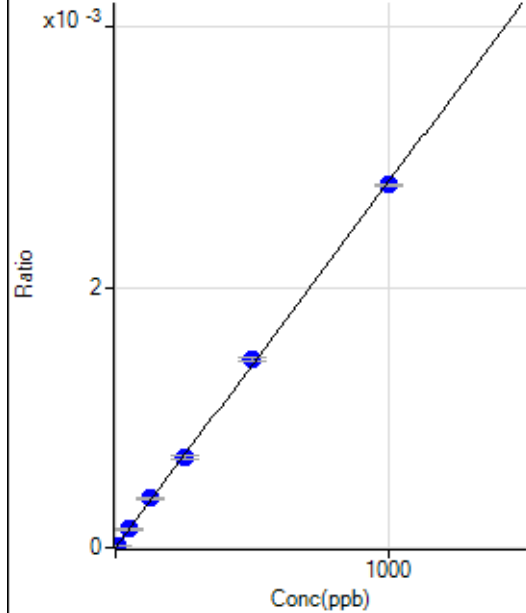
$$DL = 0.04463$$

$$BEC = 0.00859$$

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	4.741	44.45	0.0000	P	45.1
3	☐	50.000	49.993	456.68	0.0001	P	7.4
4	☐	125.000	135.835	1228.95	0.0004	P	4.3
5	☐	250.000	246.339	2223.52	0.0007	P	3.0
6	☐	500.000	514.964	4664.11	0.0014	P	2.2
7	☐	1000.000	992.080	8956.11	0.0028	P	0.7
8	☐			1.11	0.0000	P	173.

$$y = 2.8095\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

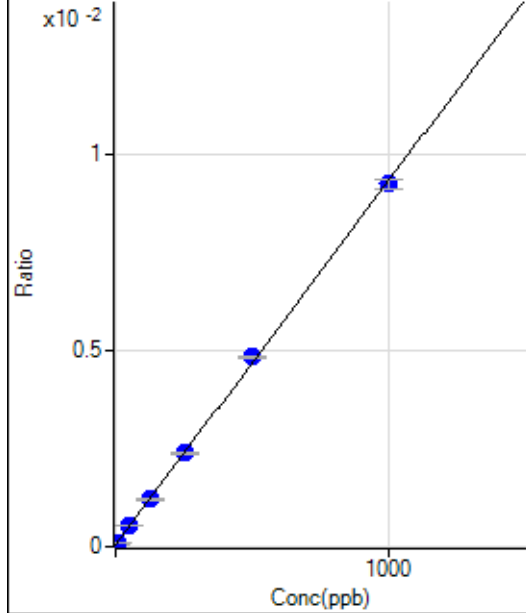
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	10.9
2	☐	5.000	5.516	347.78	0.0001	P	5.9
3	☐	50.000	52.686	1760.13	0.0005	P	1.7
4	☐	125.000	123.829	3863.88	0.0012	P	3.6
5	☐	250.000	251.488	7655.37	0.0024	P	1.0
6	☐	500.000	515.955	15580.52	0.0048	P	0.5
7	☐	1000.000	991.660	29692.01	0.0092	P	2.7
8	☐			173.34	0.0001	P	19.1

$$y = 9.2641\text{E-}006 * x + 5.3329\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.883$$

$$BEC = 5.756$$

Weight: <None>

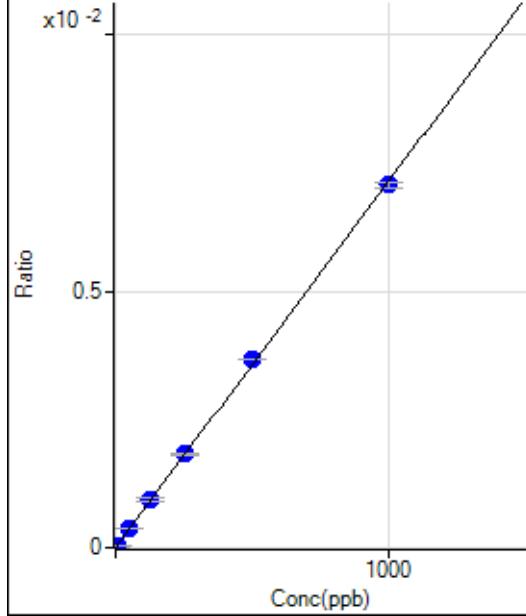
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35324.65		P	0.9
2	☐			36022.96		P	0.9
3	☐			35339.07		P	1.1
4	☐			34511.66		P	1.2
5	☐			34223.14		P	2.2
6	☐			34414.56		P	1.0
7	☐			33889.01		P	2.0
8	☐			33290.95		P	1.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			81.11		P	16.6
2	☐			75.56		P	12.7
3	☐			64.45		P	10.8
4	☐			71.11		P	30.5
5	☐			65.56		P	15.5
6	☐			77.78		P	23.6
7	☐			74.45		P	14.4
8	☐			92.22		P	20.9

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.88	0.0000	P	56.6
2	☐	5.000	4.932	522.94	0.0000	P	13.1
3	☐	50.000	51.863	5224.75	0.0004	P	1.7
4	☐	125.000	132.742	12835.07	0.0009	P	7.2
5	☐	250.000	255.315	25524.17	0.0018	P	1.4
6	☐	500.000	513.874	51196.63	0.0037	P	0.7
7	☐	1000.000	990.674	99491.96	0.0071	P	1.5
8	☐			219.84	0.0000	P	4.2

$$y = 7.1407\text{E-}006 * x + 1.6265\text{E-}006$$

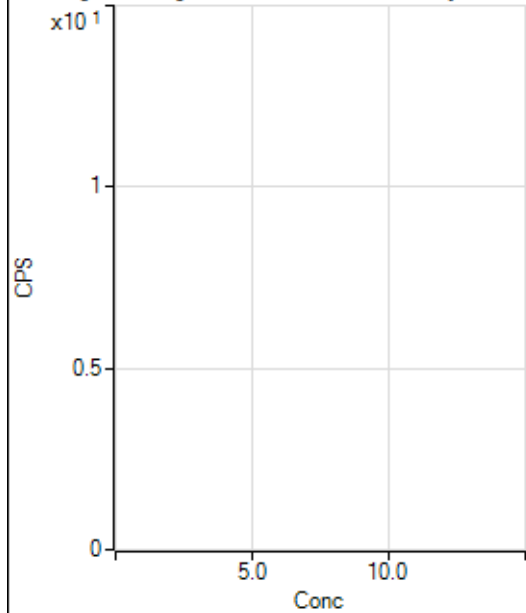
$$R = 0.9998$$

$$DL = 0.3867$$

$$BEC = 0.2278$$

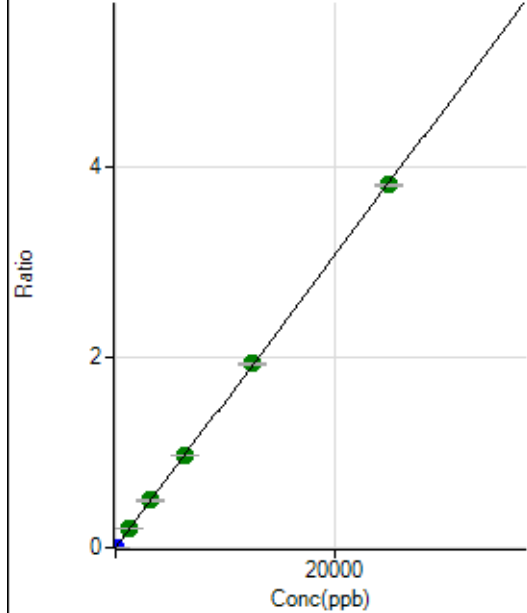
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			91.11		P	14.8
2	☐			98.89		P	27.5
3	☐			84.44		P	22.8
4	☐			72.22		P	25.4
5	☐			96.67		P	12.4
6	☐			101.11		P	25.0
7	☐			115.56		P	22.0
8	☐			104.45		P	16.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	168.89	0.0000	P	14.5
2	☐	1.000	0.903	2136.84	0.0002	P	3.9
3	☐	1250.000	1276.526	2749299.44	0.1957	A	1.6
4	☐	3125.000	3259.824	6761079.83	0.4998	A	5.4
5	☐	6250.000	6310.529	13535305.63	0.9676	A	0.6
6	☐	12500.000	12646.802	27043016.26	1.9392	A	1.2
7	☐	25000.000	24893.288	53672815.87	3.8169	A	0.5
8	☐			13149.33	0.0011	P	9.7

$$y = 1.5333\text{E-}004 * x + 1.1978\text{E-}005$$

$$R = 1.0000$$

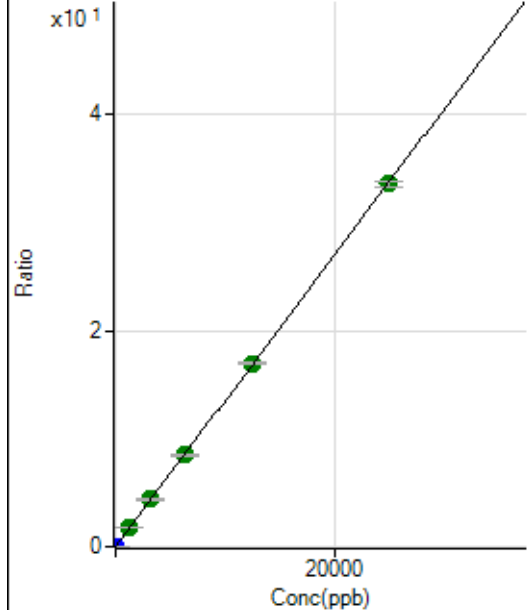
$$DL = 0.03395$$

$$BEC = 0.07812$$

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	133.34	0.0000	P	9.3
2	☐	1.000	0.945	18206.91	0.0013	P	1.2
3	☐	1250.000	1280.092	24225644.08	1.7249	A	2.2
4	☐	3125.000	3259.779	59426880.23	4.3924	A	4.7
5	☐	6250.000	6287.499	118506018.2	8.4720	A	1.1
6	☐	12500.000	12584.278	236475794.2	16.9566	A	1.2
7	☐	25000.000	24930.135	472306521.8	33.5919	A	1.9
8	☐			114843.57	0.0094	P	10.1

$$y = 0.0013 * x + 9.4610\text{E-}006$$

$$R = 1.0000$$

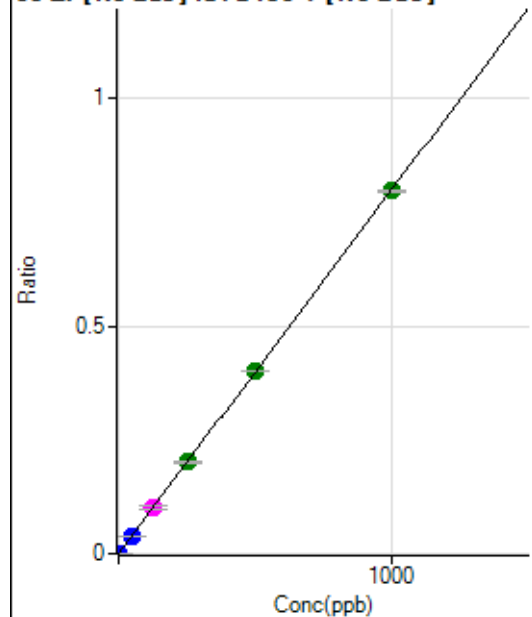
$$DL = 0.001957$$

$$BEC = 0.007021$$

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	380.01	0.0000	P	7.5
2	☐	1.000	0.909	10690.64	0.0008	P	1.4
3	☐	50.000	49.038	550368.38	0.0392	P	3.0
4	☐	125.000	127.324	1374687.04	0.1017	M	7.6
5	☐	250.000	252.805	2824258.57	0.2019	A	1.8
6	☐	500.000	502.938	5601675.54	0.4017	A	0.7
7	☐	1000.000	997.588	11203168.86	0.7967	A	0.6
8	☐			2408.00	0.0002	P	14.0

$$y = 7.9859\text{E-}004 * x + 2.6955\text{E-}005$$

$$R = 1.0000$$

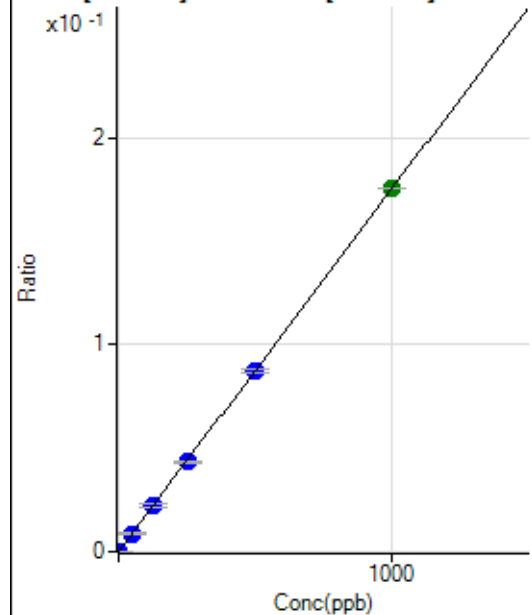
$$DL = 0.007579$$

$$BEC = 0.03375$$

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	64.44	0.0000	P	21.1
2	☐	1.000	0.920	2350.21	0.0002	P	1.4
3	☐	50.000	49.875	122689.62	0.0087	P	2.7
4	☐	125.000	128.756	304856.32	0.0225	P	6.3
5	☐	250.000	247.233	605468.69	0.0433	P	1.9
6	☐	500.000	497.890	1215584.33	0.0872	P	2.2
7	☐	1000.000	1001.283	2465071.74	0.1753	A	0.1
8	☐			510.01	0.0000	P	20.3

$$y = 1.7506\text{E-}004 * x + 4.5689\text{E-}006$$

$$R = 1.0000$$

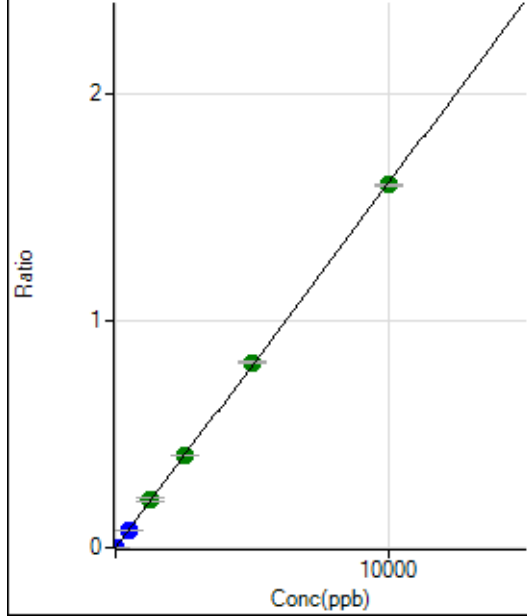
$$DL = 0.01649$$

$$BEC = 0.0261$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	124.45	0.0000	P	13.7
2	☐	5.000	5.430	12504.31	0.0009	P	2.8
3	☐	500.000	490.858	1107069.42	0.0788	P	2.6
4	☐	1250.000	1310.289	2845180.62	0.2104	A	6.2
5	☐	2500.000	2524.851	5670957.48	0.4054	A	1.2
6	☐	5000.000	5070.321	11353940.25	0.8141	A	0.9
7	☐	10000.000	9951.548	22469610.22	1.5979	A	0.5
8	☐			4716.37	0.0004	P	14.8

$$y = 1.6057E-004 * x + 8.8327E-006$$

$$R = 0.9999$$

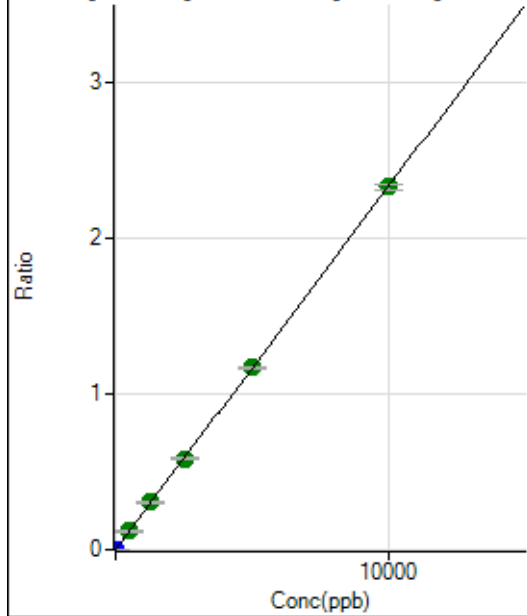
$$DL = 0.02267$$

$$BEC = 0.05501$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0000	P	18.9
2	☐	5.000	4.573	15179.07	0.0011	P	1.2
3	☐	500.000	503.893	1650046.17	0.1175	A	1.2
4	☐	1250.000	1302.044	4104225.28	0.3035	A	6.7
5	☐	2500.000	2502.720	8161476.89	0.5835	A	1.0
6	☐	5000.000	5018.619	16316616.42	1.1700	A	1.1
7	☐	10000.000	9983.310	32725665.90	2.3274	A	1.3
8	☐			5640.05	0.0005	P	14.5

$$y = 2.3313E-004 * x + 3.1535E-006$$

$$R = 1.0000$$

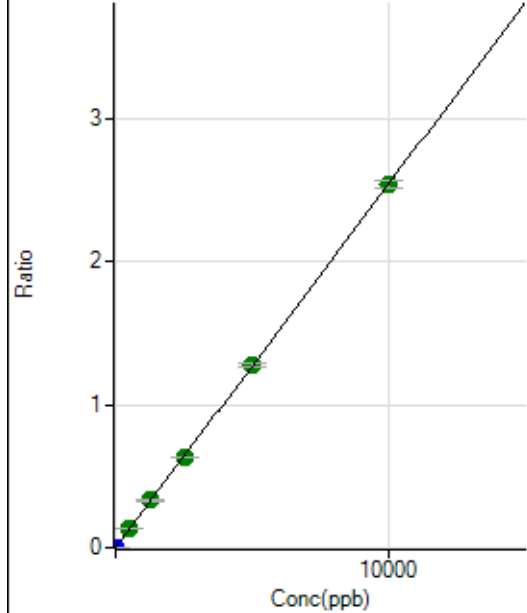
$$DL = 0.00768$$

$$BEC = 0.01353$$

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	91.11	0.0000	P	24.9
2	☐	5.000	4.659	16906.50	0.0012	P	0.5
3	☐	500.000	511.309	1825718.10	0.1300	A	0.9
4	☐	1250.000	1299.171	4465141.67	0.3303	A	6.7
5	☐	2500.000	2490.759	8856467.65	0.6332	A	1.3
6	☐	5000.000	5026.626	17819509.32	1.2778	A	1.3
7	☐	10000.000	9982.286	35677150.30	2.5375	A	2.0
8	☐			17587.38	0.0014	P	6.0

$$y = 2.5420\text{E-}004 * x + 6.4695\text{E-}006$$

$$R = 1.0000$$

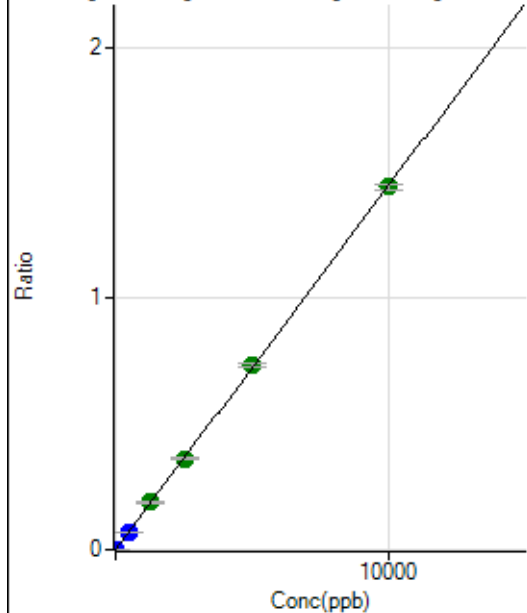
$$DL = 0.01903$$

$$BEC = 0.02545$$

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	21.11	0.0000	P	39.7
2	☐	5.000	4.597	9476.48	0.0007	P	2.0
3	☐	500.000	490.942	999094.30	0.0711	P	2.6
4	☐	1250.000	1301.739	2550862.41	0.1886	A	6.0
5	☐	2500.000	2502.718	5072664.68	0.3626	A	0.9
6	☐	5000.000	5059.185	10223264.43	0.7331	A	1.8
7	☐	10000.000	9963.714	20299028.59	1.4437	A	1.8
8	☐			3644.94	0.0003	P	16.1

$$y = 1.4490\text{E-}004 * x + 1.4981\text{E-}006$$

$$R = 1.0000$$

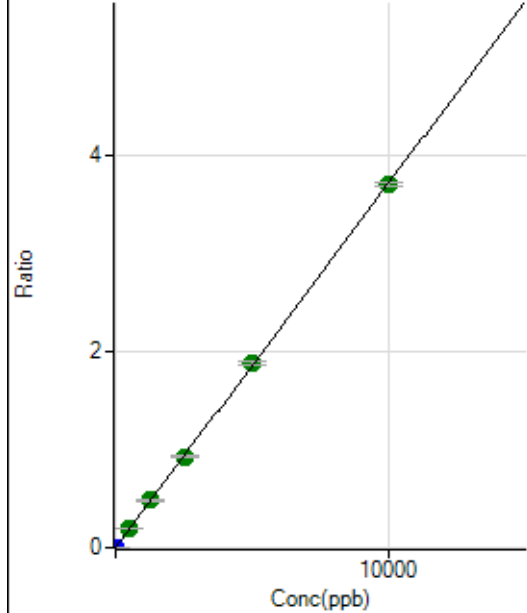
$$DL = 0.01232$$

$$BEC = 0.01034$$

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	68.89	0.0000	P	24.1
2	☐	5.000	4.594	24324.77	0.0017	P	0.5
3	☐	500.000	506.126	2644110.01	0.1882	A	1.1
4	☐	1250.000	1304.414	6562479.63	0.4851	A	5.3
5	☐	2500.000	2507.104	13043238.28	0.9325	A	1.1
6	☐	5000.000	5065.818	26275506.55	1.8841	A	1.6
7	☐	10000.000	9958.207	52079025.89	3.7037	A	1.0
8	☐			8667.14	0.0007	P	17.3

$$y = 3.7193\text{E-}004 * x + 4.8850\text{E-}006$$

$$R = 1.0000$$

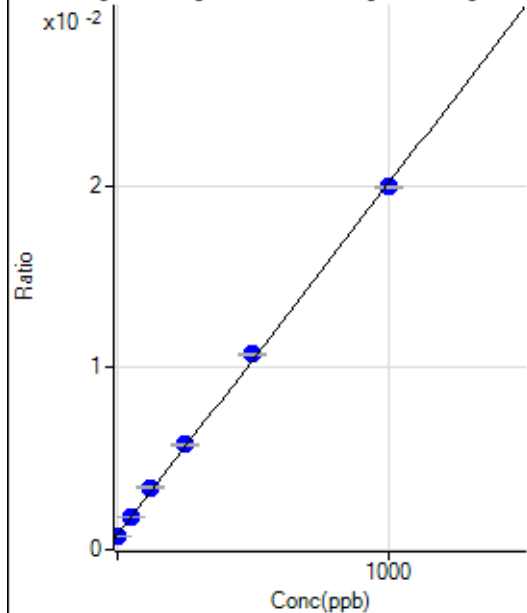
$$DL = 0.009499$$

$$BEC = 0.01313$$

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	6380.34	0.0007	P	1.6
2	☐	1.000	1.230	6579.33	0.0008	P	1.9
3	☐	50.000	55.841	15449.38	0.0018	P	2.3
4	☐	125.000	137.186	28221.90	0.0034	P	3.8
5	☐	250.000	258.746	49380.31	0.0058	P	0.4
6	☐	500.000	514.759	92109.59	0.0107	P	1.2
7	☐	1000.000	988.618	172792.56	0.0199	P	0.5
8	☐			5700.05	0.0008	P	0.7

$$y = 1.9424\text{E-}005 * x + 7.4058\text{E-}004$$

$$R = 0.9998$$

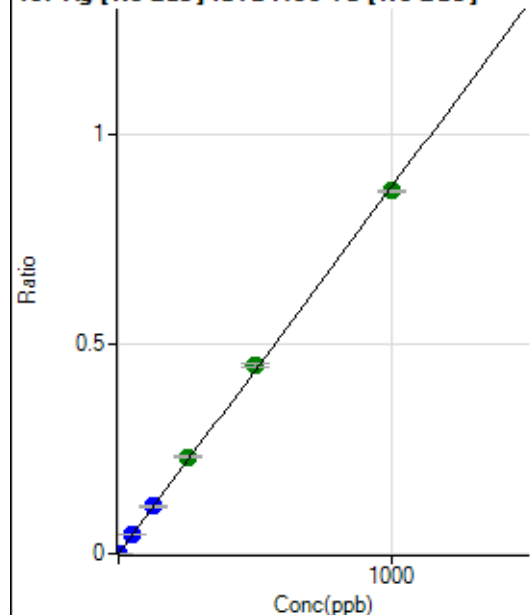
$$DL = 1.875$$

$$BEC = 38.13$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	76.67	0.0000	P	11.6
2	☐	1.000	0.981	7473.09	0.0009	P	1.7
3	☐	50.000	51.641	382808.77	0.0452	P	2.7
4	☐	125.000	129.267	937188.79	0.1132	P	6.6
5	☐	250.000	264.118	1980561.64	0.2313	A	1.2
6	☐	500.000	512.783	3851175.01	0.4490	A	2.0
7	☐	1000.000	989.464	7506535.37	0.8664	A	0.7
8	☐			2679.16	0.0004	P	8.4

$$y = 8.7565\text{E-}004 * x + 8.8994\text{E-}006$$

$$R = 0.9998$$

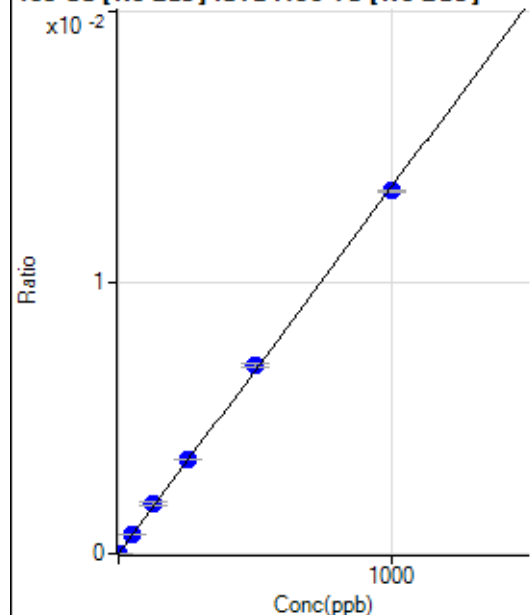
$$DL = 0.003539$$

$$BEC = 0.01016$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12.22	0.0000	P	41.7
2	☐	1.000	1.061	135.56	0.0000	P	14.3
3	☐	50.000	53.572	6134.68	0.0007	P	2.3
4	☐	125.000	137.620	15390.47	0.0019	P	7.6
5	☐	250.000	257.329	29766.12	0.0035	P	0.7
6	☐	500.000	513.506	59479.03	0.0069	P	1.6
7	☐	1000.000	989.659	115785.32	0.0134	P	0.7
8	☐			60.00	0.0000	P	10.5

$$y = 1.3502\text{E-}005 * x + 1.4186\text{E-}006$$

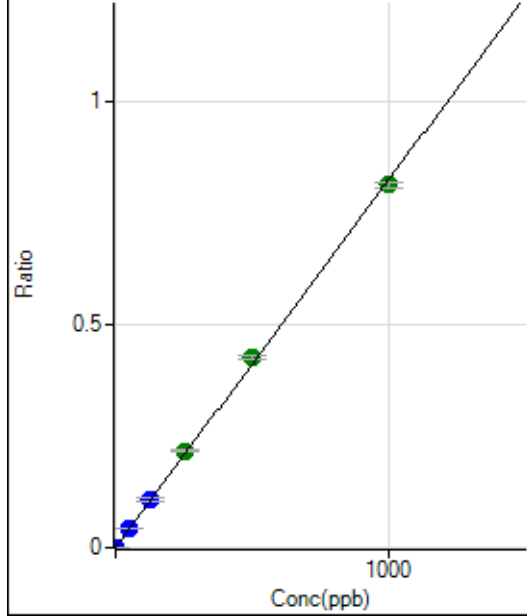
$$R = 0.9998$$

$$DL = 0.1313$$

$$BEC = 0.1051$$

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	21.11	0.0000	P	50.5
2	☐	1.000	0.997	7084.02	0.0008	P	1.4
3	☐	50.000	51.607	359672.81	0.0425	P	3.1
4	☐	125.000	129.849	885387.09	0.1069	P	5.9
5	☐	250.000	263.583	1858507.26	0.2170	A	0.9
6	☐	500.000	517.775	3656563.63	0.4263	A	1.6
7	☐	1000.000	987.030	7040645.87	0.8127	A	1.5
8	☐			2505.80	0.0003	P	8.1

$$y = 8.2338\text{E-}004 * x + 2.4483\text{E-}006$$

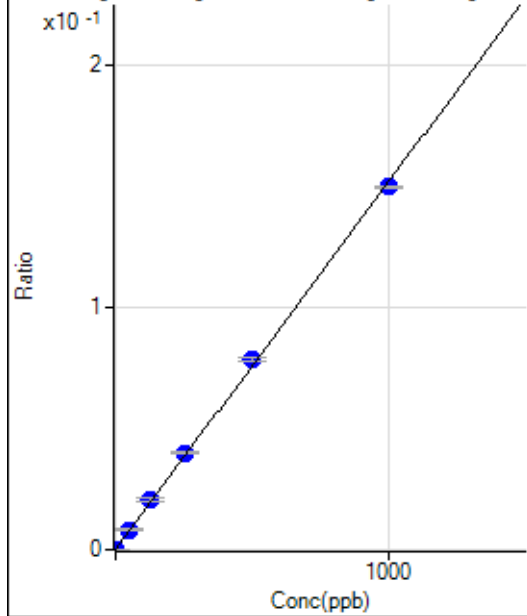
$$R = 0.9997$$

$$DL = 0.004504$$

$$BEC = 0.002974$$

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	638.37	0.0001	P	1.9
2	☐	1.000	1.082	2050.92	0.0002	P	6.0
3	☐	50.000	54.386	70482.45	0.0083	P	2.7
4	☐	125.000	137.086	172843.38	0.0209	P	6.5
5	☐	250.000	262.573	341841.33	0.0399	P	1.0
6	☐	500.000	516.583	673000.86	0.0785	P	1.4
7	☐	1000.000	986.835	1298049.54	0.1498	P	0.6
8	☐			949.12	0.0001	P	3.7

$$y = 1.5175\text{E-}004 * x + 7.4098\text{E-}005$$

$$R = 0.9997$$

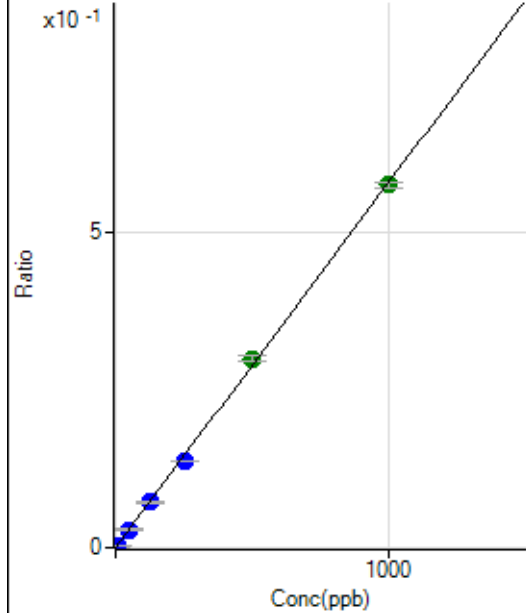
$$DL = 0.02769$$

$$BEC = 0.4883$$

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	647.80	0.0001	P	5.8
2	☐	5.000	4.649	23780.82	0.0028	P	0.4
3	☐	50.000	49.619	243451.82	0.0288	P	2.4
4	☐	125.000	124.599	597122.28	0.0721	P	6.2
5	☐	250.000	237.585	1176933.03	0.1374	P	0.9
6	☐	500.000	518.327	2570912.23	0.2998	A	2.8
7	☐	1000.000	994.011	4979319.37	0.5748	A	1.7
8	☐			2775.85	0.0004	P	5.4

$$y = 5.7816\text{E-}004 * x + 7.5184\text{E-}005$$

$$R = 0.9997$$

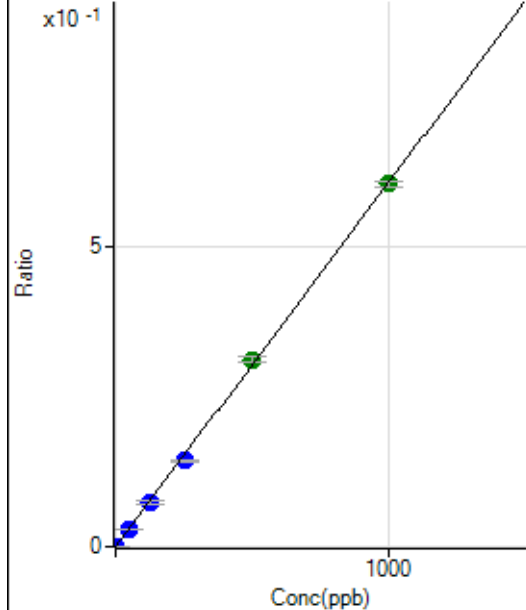
$$DL = 0.02258$$

$$BEC = 0.13$$

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	37.78	0.0000	P	31.0
2	☐	2.000	1.886	9889.04	0.0011	P	0.9
3	☐	50.000	48.099	247162.31	0.0292	P	2.4
4	☐	125.000	123.120	618651.24	0.0747	P	7.1
5	☐	250.000	235.901	1226285.47	0.1432	P	0.7
6	☐	500.000	513.674	2674248.41	0.3118	A	2.8
7	☐	1000.000	997.018	5243080.83	0.6052	A	1.6
8	☐			3052.57	0.0004	P	1.6

$$y = 6.0701\text{E-}004 * x + 4.3852\text{E-}006$$

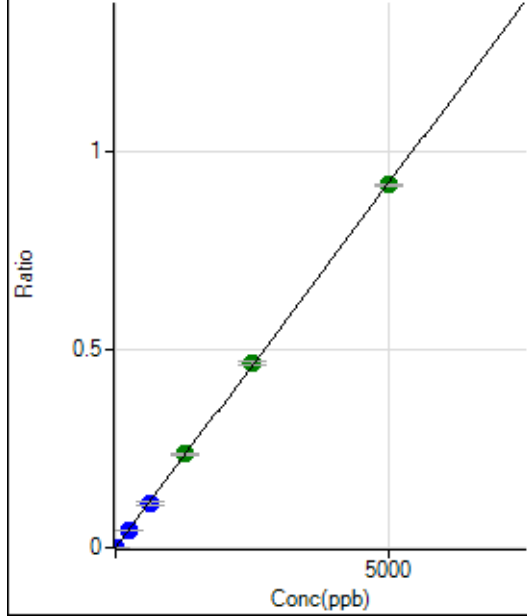
$$R = 0.9998$$

$$DL = 0.006725$$

$$BEC = 0.007224$$

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	13.33	0.0000	P	90.0
2	☐	10.000	8.967	14241.65	0.0017	P	2.3
3	☐	250.000	236.072	368386.39	0.0435	P	2.4
4	☐	625.000	605.160	923623.96	0.1116	P	6.7
5	☐	1250.000	1283.043	2025578.22	0.2365	A	1.2
6	☐	2500.000	2531.983	4003512.89	0.4668	A	2.0
7	☐	5000.000	4978.926	7952678.14	0.9179	A	0.6
8	☐			4280.68	0.0006	P	3.5

$$y = 1.8436\text{E-}004 * x + 1.5455\text{E-}006$$

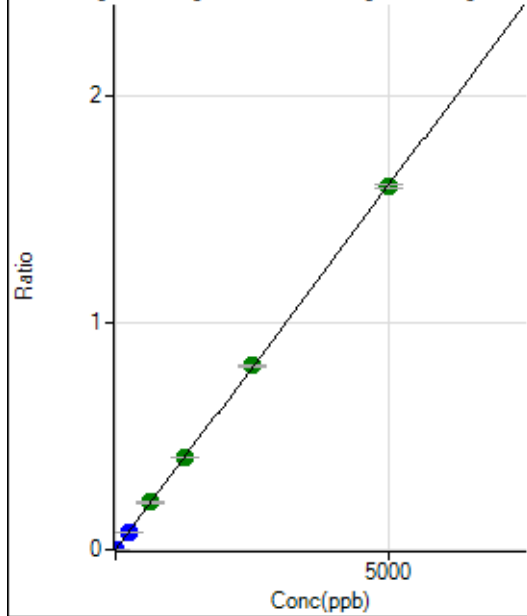
$$R = 0.9999$$

$$DL = 0.02262$$

$$BEC = 0.008383$$

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	25.56	0.0000	P	19.9
2	☐	10.000	9.046	25028.73	0.0029	P	1.8
3	☐	250.000	234.684	637939.21	0.0754	P	2.4
4	☐	625.000	650.341	1729196.29	0.2089	A	6.4
5	☐	1250.000	1263.934	3475913.00	0.4059	A	0.6
6	☐	2500.000	2529.595	6967542.60	0.8124	A	1.0
7	☐	5000.000	4979.319	13853585.49	1.5991	A	0.9
8	☐			7428.68	0.0010	P	4.9

$$y = 3.2114\text{E-}004 * x + 2.9662\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.005514$$

$$BEC = 0.009236$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

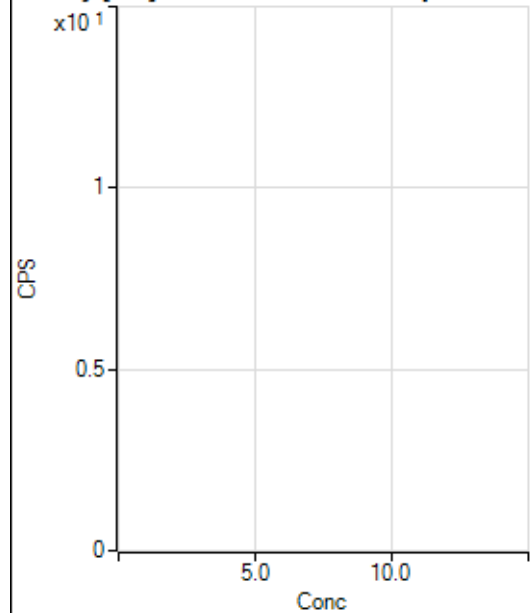
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			5.55		P	124.
3	☐			90.00		P	14.8
4	☐			192.22		P	20.7
5	☐			386.67		P	7.7
6	☐			796.70		P	2.9
7	☐			1441.20		P	4.6
8	☐			42.22		P	36.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	173.
3	☐			23.33		P	24.7
4	☐			25.56		P	39.8
5	☐			98.89		P	9.7
6	☐			142.23		P	9.8
7	☐			288.90		P	8.7
8	☐			32.22		P	6.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			13.33		P	66.2
3	☐			40.00		P	16.7
4	☐			84.45		P	8.2
5	☐			131.11		P	34.1
6	☐			275.56		P	21.0
7	☐			518.90		P	8.2
8	☐			1248.96		P	4.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			6.67		P	50.0
3	☐			27.78		P	59.2
4	☐			67.78		P	12.4
5	☐			111.11		P	9.6
6	☐			254.45		P	4.2
7	☐			434.45		P	4.6
8	☐			792.25		P	5.1

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

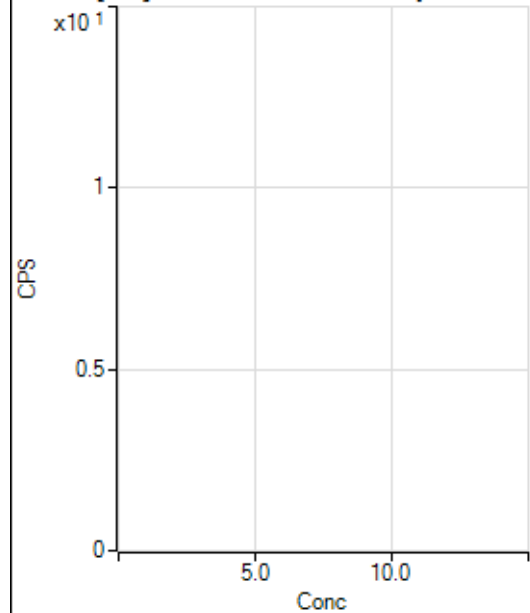
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	31.9
2	☐			38.89		P	27.5
3	☐			51.11		P	38.2
4	☐			81.11		P	6.3
5	☐			125.56		P	10.7
6	☐			194.45		P	19.0
7	☐			392.23		P	1.8
8	☐			1358.97		P	3.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			203.34		P	10.0
2	☐			217.78		P	6.2
3	☐			235.56		P	4.3
4	☐			234.45		P	8.3
5	☐			280.01		P	4.3
6	☐			334.45		P	6.5
7	☐			485.57		P	4.4
8	☐			1063.38		P	4.4

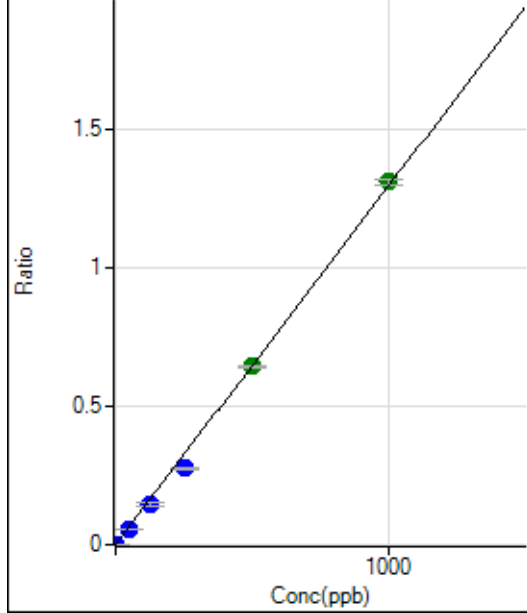
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			64.44		P	15.8
2	☐			51.11		P	26.4
3	☐			53.33		P	33.1
4	☐			55.56		P	15.1
5	☐			90.00		P	23.1
6	☐			127.78		P	6.0
7	☐			147.78		P	24.8
8	☐			97.78		P	12.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	39.6
2	☐			32.22		P	29.8
3	☐			53.33		P	21.7
4	☐			55.56		P	39.0
5	☐			48.89		P	21.9
6	☐			76.67		P	15.1
7	☐			95.56		P	23.7
8	☐			67.78		P	10.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0000	P	30.3
2	☐	1.000	0.798	5780.17	0.0010	P	0.5
3	☐	50.000	42.530	300764.24	0.0551	P	2.0
4	☐	125.000	112.126	764422.54	0.1451	P	6.2
5	☐	250.000	213.503	1512186.44	0.2763	P	2.0
6	☐	500.000	498.427	3471527.21	0.6451	A	1.1
7	☐	1000.000	1011.894	6852148.16	1.3097	A	1.6
8	☐			672.24	0.0002	P	21.5

$$y = 0.0013 * x + 1.1778E-005$$

$$R = 0.9993$$

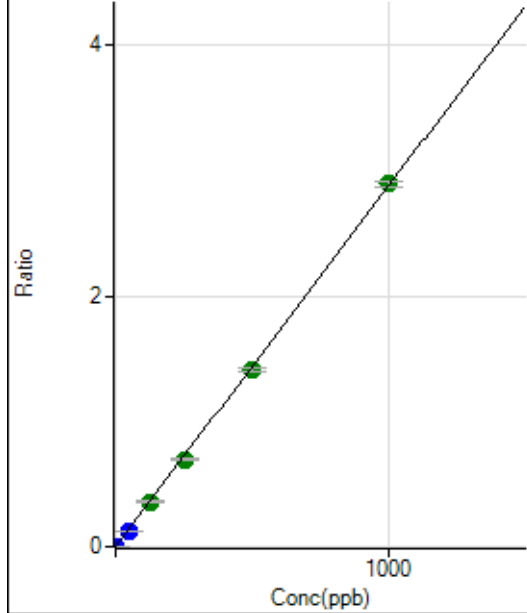
$$DL = 0.008268$$

$$BEC = 0.0091$$

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	174.05	0.0000	P	10.9
2	☐	1.000	0.875	14085.02	0.0025	P	1.6
3	☐	50.000	40.816	640952.78	0.1173	P	2.5
4	☐	125.000	125.164	1895135.91	0.3598	A	5.7
5	☐	250.000	241.414	3796952.65	0.6939	A	1.7
6	☐	500.000	492.022	7609476.94	1.4141	A	2.2
7	☐	1000.000	1006.574	15135546.58	2.8930	A	1.5
8	☐			1212.24	0.0003	P	23.6

$$y = 0.0029 * x + 3.1299E-005$$

$$R = 0.9999$$

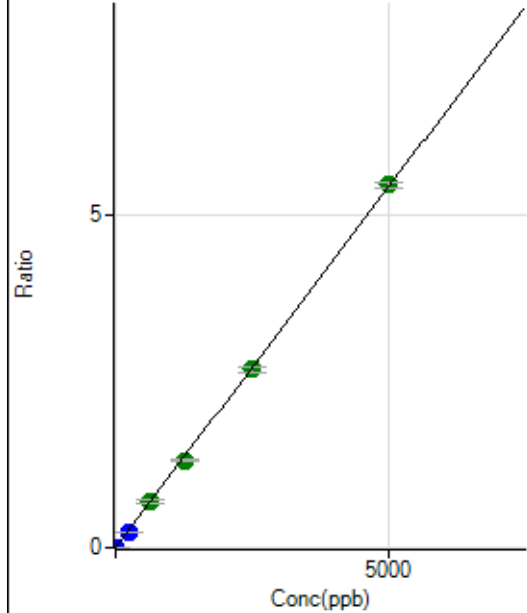
$$DL = 0.003569$$

$$BEC = 0.01089$$

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	340.01	0.0001	P	7.8
2	☐	1.000	0.793	5098.78	0.0009	P	3.6
3	☐	250.000	210.910	1250445.76	0.2289	P	3.3
4	☐	625.000	638.362	3648242.93	0.6928	A	6.6
5	☐	1250.000	1210.235	7186421.63	1.3133	A	2.3
6	☐	2500.000	2465.368	14395333.67	2.6753	A	3.0
7	☐	5000.000	5027.542	28542993.19	5.4557	A	1.7
8	☐			4969.85	0.0012	P	10.0

$$y = 0.0011 * x + 6.1129E-005$$

$$R = 0.9999$$

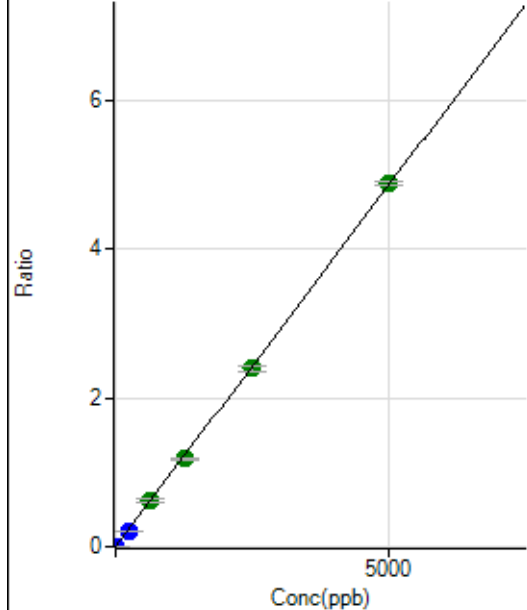
$$DL = 0.01318$$

$$BEC = 0.05633$$

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	303.34	0.0001	P	8.1
2	☐	1.000	0.781	4488.56	0.0008	P	1.4
3	☐	250.000	209.395	1108817.07	0.2030	P	3.0
4	☐	625.000	645.694	3295080.95	0.6258	A	7.3
5	☐	1250.000	1218.801	6463499.49	1.1813	A	2.9
6	☐	2500.000	2466.594	12863593.97	2.3906	A	2.5
7	☐	5000.000	5023.946	25475051.84	4.8691	A	1.2
8	☐			4189.59	0.0010	P	14.3

$$y = 9.6918E-004 * x + 5.4545E-005$$

$$R = 0.9999$$

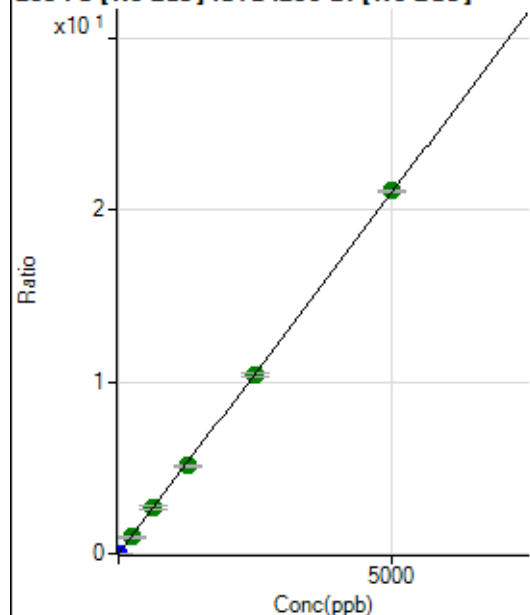
$$DL = 0.01366$$

$$BEC = 0.05628$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1368.71	0.0002	P	3.3
2	☐	1.000	0.808	20145.14	0.0036	P	1.0
3	☐	250.000	226.914	5205632.98	0.9530	A	2.9
4	☐	625.000	638.842	14128947.05	2.6827	A	6.3
5	☐	1250.000	1212.475	27857310.15	5.0912	A	2.8
6	☐	2500.000	2466.099	55719676.74	10.3550	A	2.2
7	☐	5000.000	5025.756	110409386.6	21.1026	A	0.6
8	☐			18564.12	0.0044	P	12.2

$$y = 0.0042 * x + 2.4606E-004$$

$$R = 0.9999$$

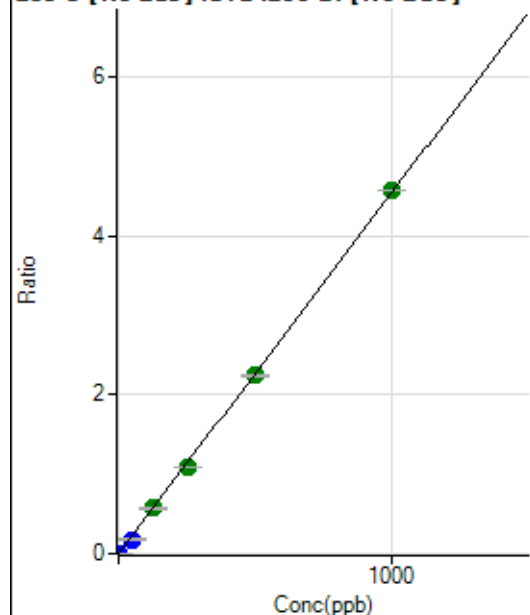
$$DL = 0.00575$$

$$BEC = 0.0586$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	0.753	18909.15	0.0034	P	0.9
3	☐	50.000	39.577	980156.13	0.1794	P	3.0
4	☐	125.000	126.705	3025811.86	0.5745	A	6.2
5	☐	250.000	239.451	5941002.69	1.0856	A	1.6
6	☐	500.000	493.538	12041001.77	2.2376	A	1.6
7	☐	1000.000	1006.177	23868464.09	4.5619	A	0.0
8	☐			1725.69	0.0004	P	27.3

$$y = 0.0045 * x + 1.9945E-006$$

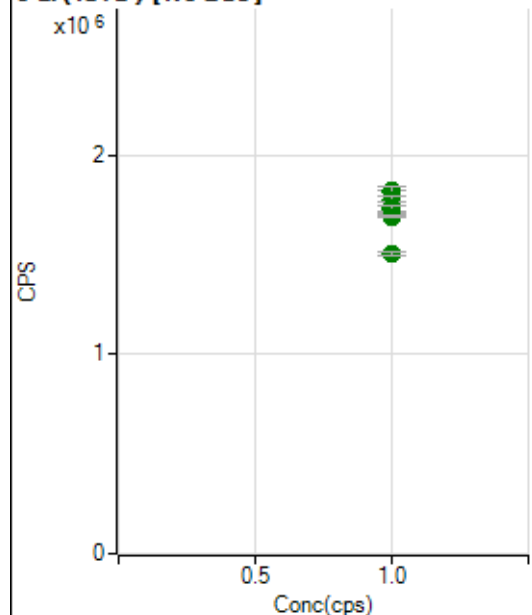
$$R = 0.9999$$

$$DL = 0.001143$$

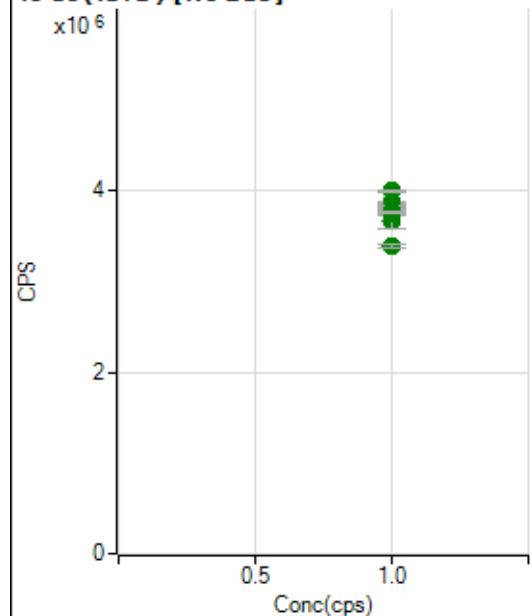
$$BEC = 0.0004399$$

Weight: <None>

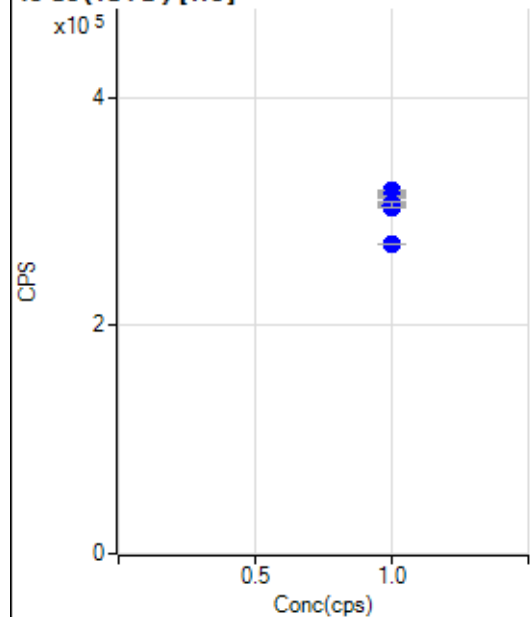
Min Conc: 0

6 Li (ISTD) [No Gas]

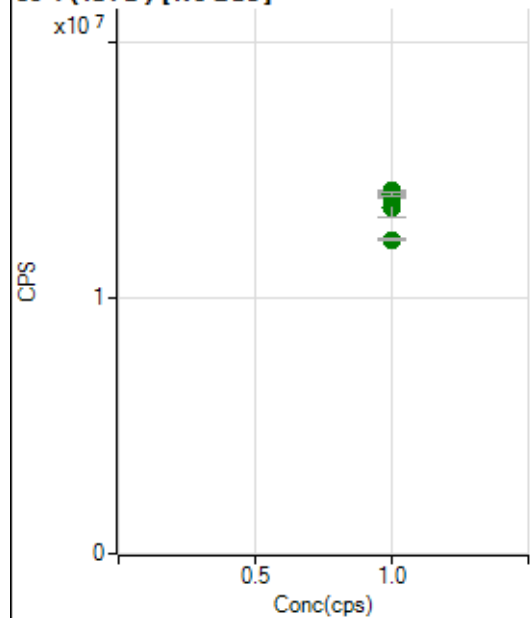
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1808883.88		A	1.4
2	☐	1.000		1820055.01		A	2.5
3	☐	1.000		1771799.16		A	2.5
4	☐	1.000		1725996.80		A	4.2
5	☐	1.000		1736064.40		A	1.6
6	☐	1.000		1727182.48		A	1.8
7	☐	1.000		1691183.45		A	0.8
8	☐	1.000		1505138.41		A	1.2

45 Sc (ISTD) [No Gas]

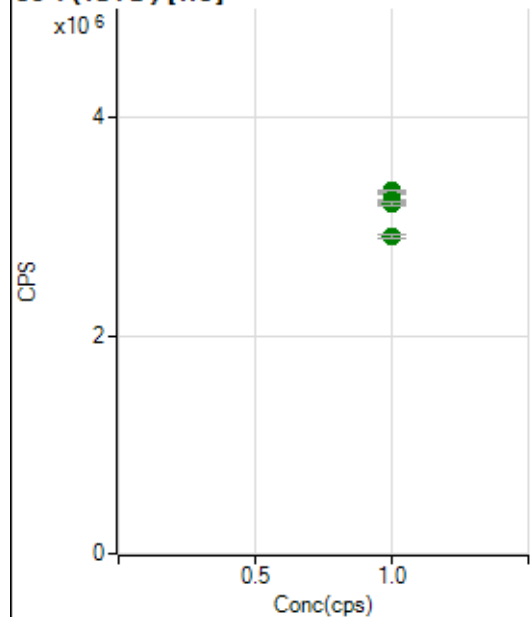
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3868742.16		A	0.9
2	☐	1.000		3997442.03		A	0.6
3	☐	1.000		3827115.95		A	0.7
4	☐	1.000		3671079.39		A	5.3
5	☐	1.000		3760315.85		A	1.5
6	☐	1.000		3748441.26		A	0.2
7	☐	1.000		3767028.56		A	0.6
8	☐	1.000		3391644.84		A	1.5

45 Sc (ISTD) [He]

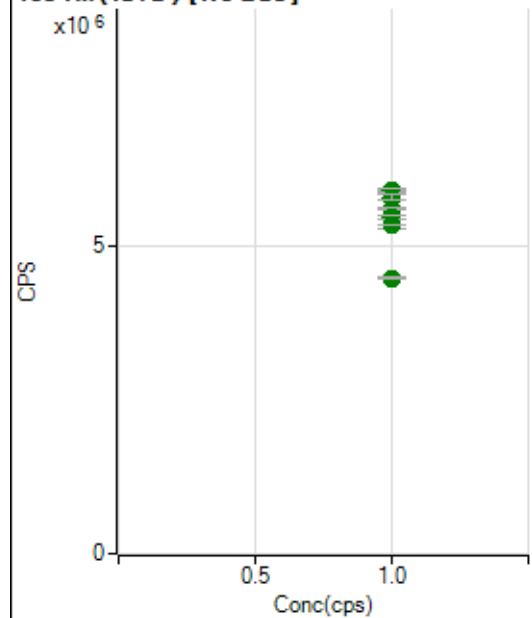
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		314438.18		P	0.5
2	☐	1.000		317887.03		P	0.4
3	☐	1.000		312990.08		P	0.7
4	☐	1.000		303244.97		P	0.3
5	☐	1.000		303567.91		P	0.5
6	☐	1.000		305821.77		P	0.6
7	☐	1.000		305370.20		P	1.7
8	☐	1.000		271482.45		P	0.4

89 Y (ISTD) [No Gas]

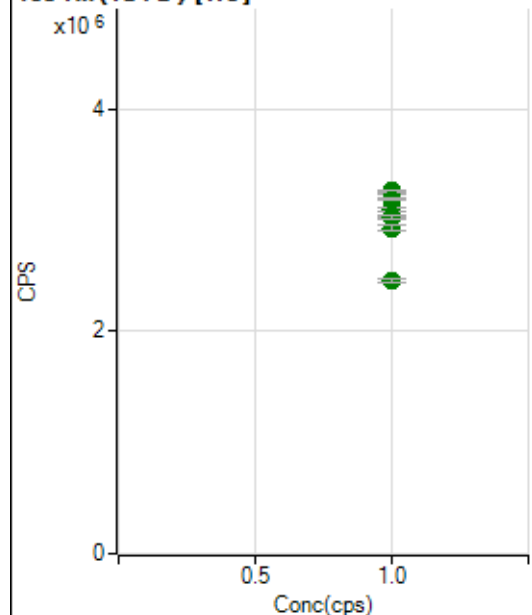
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14095611.04		A	0.5
2	☐	1.000		14196259.51		A	0.4
3	☐	1.000		14046982.29		A	1.1
4	☐	1.000		13551754.52		A	5.2
5	☐	1.000		13988794.79		A	0.9
6	☐	1.000		13946333.68		A	0.5
7	☐	1.000		14062518.12		A	1.4
8	☐	1.000		12284132.60		A	0.5

89 Y(ISTD) [He]

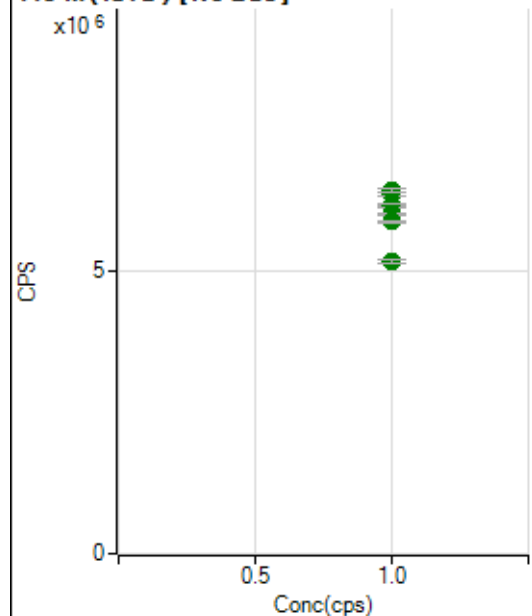
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3313827.04		A	0.4
2	☐	1.000		3330699.60		A	0.7
3	☐	1.000		3251053.46		A	0.3
4	☐	1.000		3219101.55		A	1.3
5	☐	1.000		3212265.65		A	0.8
6	☐	1.000		3223704.15		A	0.9
7	☐	1.000		3213428.46		A	1.1
8	☐	1.000		2919666.41		A	1.3

103 Rh(ISTD) [No Gas]

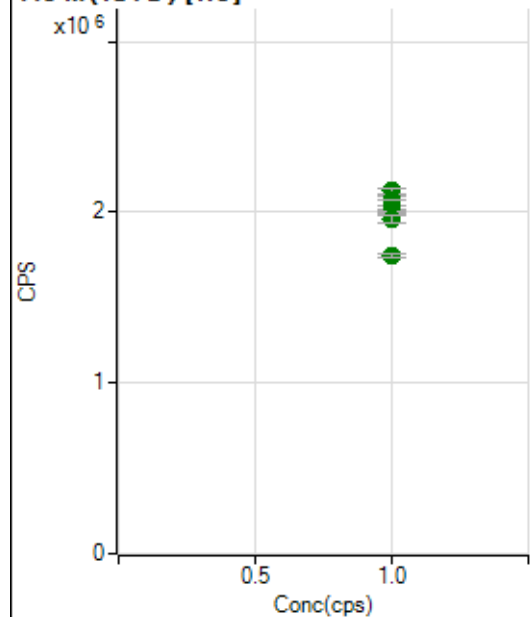
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5890786.30		A	0.8
2	☐	1.000		5893827.34		A	1.1
3	☐	1.000		5784709.15		A	1.5
4	☐	1.000		5422925.51		A	5.7
5	☐	1.000		5601106.72		A	0.3
6	☐	1.000		5465062.77		A	1.4
7	☐	1.000		5339148.15		A	0.5
8	☐	1.000		4475255.70		A	0.6

103 Rh (ISTD) [He]

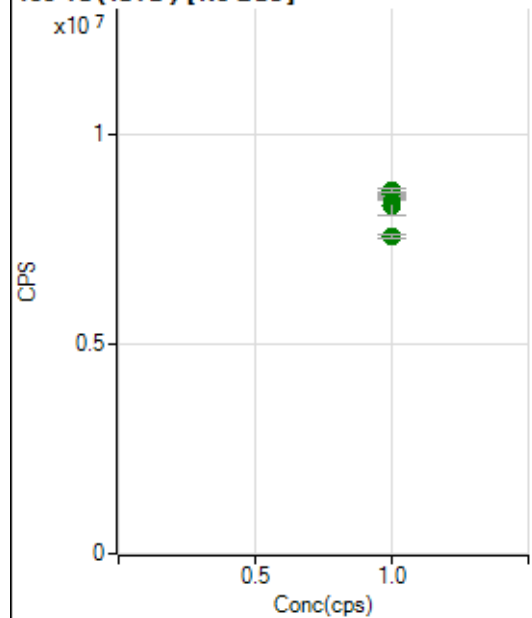
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3249246.27		A	0.7
2	☐	1.000		3263773.53		A	0.3
3	☐	1.000		3187417.63		A	0.6
4	☐	1.000		3098230.61		A	1.2
5	☐	1.000		3045888.01		A	1.7
6	☐	1.000		3025570.89		A	0.7
7	☐	1.000		2927897.87		A	2.1
8	☐	1.000		2454709.20		A	1.2

115 In (ISTD) [No Gas]

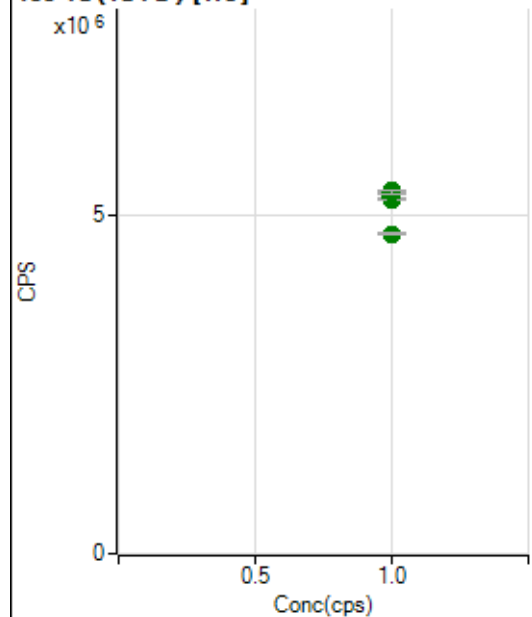
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6346757.41		A	0.8
2	☐	1.000		6403791.25		A	1.2
3	☐	1.000		6154066.47		A	0.8
4	☐	1.000		5988942.18		A	5.4
5	☐	1.000		6135296.68		A	1.2
6	☐	1.000		5992847.29		A	0.1
7	☐	1.000		5866018.29		A	0.4
8	☐	1.000		5160034.78		A	1.0

115 In (ISTD) [He]

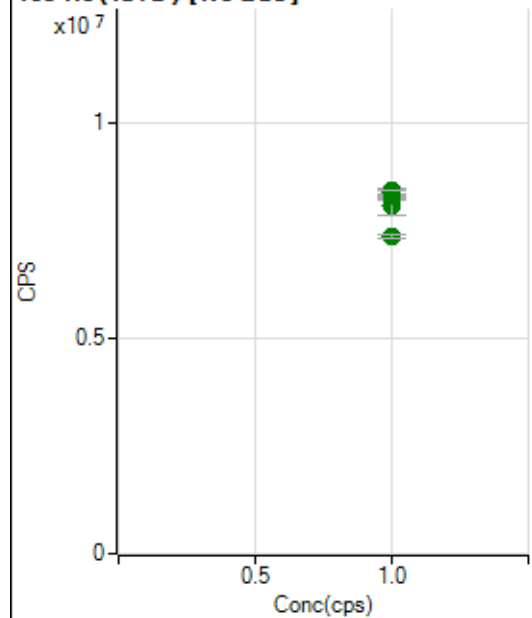
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2099326.83		A	0.7
2	☐	1.000		2124185.87		A	1.6
3	☐	1.000		2072900.21		A	0.4
4	☐	1.000		2015813.63		A	2.0
5	☐	1.000		2013143.70		A	0.4
6	☐	1.000		2000555.75		A	0.5
7	☐	1.000		1961457.59		A	2.0
8	☐	1.000		1747288.90		A	1.4

159 Tb (ISTD) [No Gas]

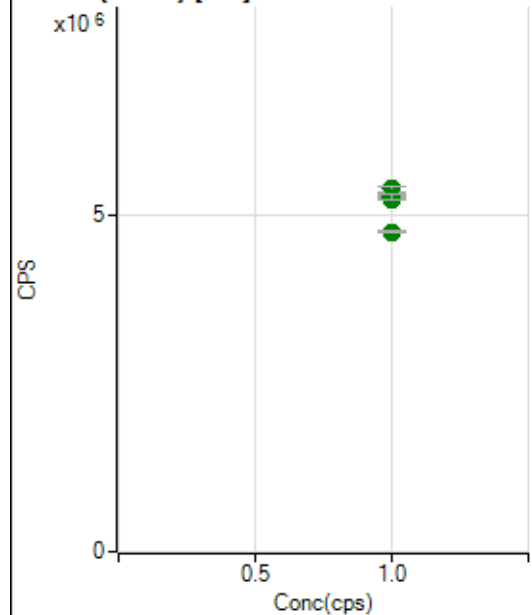
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8615438.34		A	0.2
2	☐	1.000		8606675.57		A	0.2
3	☐	1.000		8465215.99		A	0.8
4	☐	1.000		8299239.88		A	5.5
5	☐	1.000		8563519.80		A	0.4
6	☐	1.000		8577527.37		A	1.0
7	☐	1.000		8664126.95		A	1.0
8	☐	1.000		7568025.79		A	1.1

159 Tb (ISTD) [He]

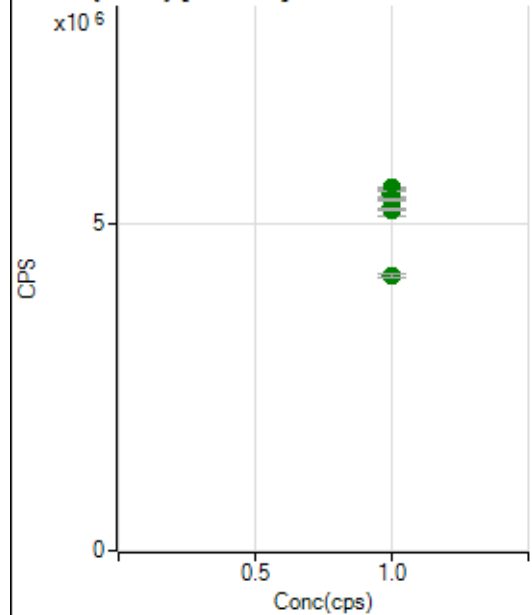
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5324600.09		A	0.4
2	☐	1.000		5361859.95		A	0.4
3	☐	1.000		5288160.23		A	1.6
4	☐	1.000		5240335.23		A	0.2
5	☐	1.000		5267574.33		A	1.3
6	☐	1.000		5337900.44		A	0.5
7	☐	1.000		5335246.59		A	1.1
8	☐	1.000		4731284.48		A	1.0

165 Ho (ISTD) [No Gas]

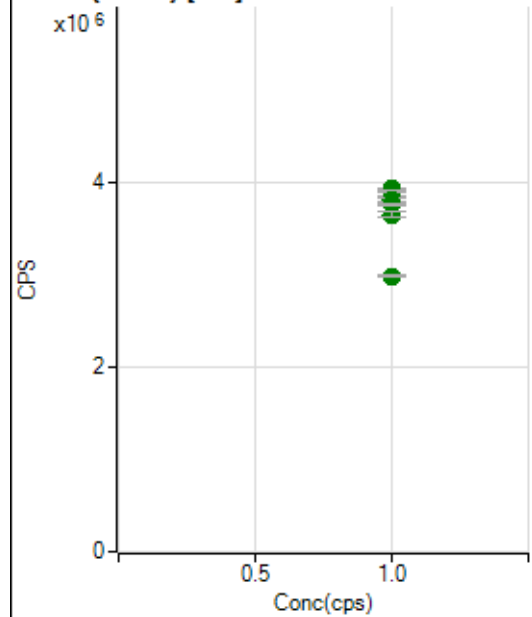
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8303289.81		A	1.1
2	☐	1.000		8364215.29		A	1.5
3	☐	1.000		8223936.96		A	0.3
4	☐	1.000		8086905.78		A	5.5
5	☐	1.000		8314772.10		A	0.3
6	☐	1.000		8413404.11		A	1.5
7	☐	1.000		8427091.40		A	0.1
8	☐	1.000		7371242.67		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5316899.36		A	0.3
2	☐	1.000		5300613.25		A	0.4
3	☐	1.000		5277877.49		A	1.3
4	☐	1.000		5228065.72		A	0.9
5	☐	1.000		5242515.48		A	0.6
6	☐	1.000		5379235.37		A	1.9
7	☐	1.000		5255923.25		A	1.3
8	☐	1.000		4741139.62		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5562568.88		A	0.4
2	☐	1.000		5534319.92		A	0.7
3	☐	1.000		5463725.65		A	1.5
4	☐	1.000		5278450.41		A	5.3
5	☐	1.000		5473195.20		A	1.6
6	☐	1.000		5381462.90		A	0.7
7	☐	1.000		5232143.60		A	0.6
8	☐	1.000		4214894.73		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3930554.25		A	0.2
2	☐	1.000		3919912.44		A	0.1
3	☐	1.000		3903436.19		A	0.8
4	☐	1.000		3820521.19		A	1.2
5	☐	1.000		3818474.70		A	1.2
6	☐	1.000		3765535.92		A	0.5
7	☐	1.000		3651867.69		A	1.4
8	☐	1.000		2988707.21		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7040623 MS.b

Acq. Date-Time 2023-04-06 13:46:41

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		7802	78017.38			0.392	5.000
24		80873	808733.23			0.663	5.000
25		11267	112667.16			0.394	5.000
26		13058	130577.78			0.522	5.000
59		56668	566681.11			0.633	5.000
113		7456	74561.52			0.739	5.000
115		98885	988849.71			0.638	5.000
206		24511	245113.95			0.658	5.000
207		22767	227667.78			0.490	5.000
208		52856	528562.43			0.566	5.000
220		0	1.40			92.444	

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

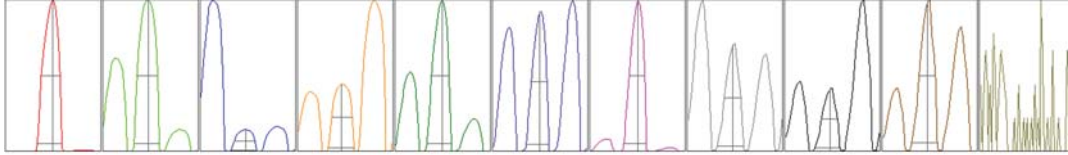
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7796	7751	7813	7823	7825
24	80213	80549	80926	81632	81047
25	11223	11226	11261	11303	11321
26	13030	12976	13027	13139	13117
59	56474	56219	56613	57138	56896
113	7407	7406	7484	7536	7448
115	98571	98222	99849	99140	98643
206	24267	24440	24614	24672	24564
207	22645	22677	22752	22905	22855
208	52591	52615	52716	53151	53207

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	14213.63	9.00	8.90 - 9.10	
24	131256.84	23.95	23.90 - 24.10	
25	18285.12	24.95	24.90 - 25.10	
26	20777.95	25.90	25.90 - 26.10	
59	107886.64	59.00	58.90 - 59.10	
113	15589.42	113.00	112.90 - 113.10	
115	207437.62	115.05	114.90 - 115.10	
206	48531.35	205.95	205.90 - 206.10	
207	43970.23	206.95	206.90 - 207.10	
208	105773.03	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.778	0.900	
24	0.66	0.792	0.900	
25	0.64	0.806	0.900	
26	0.65	0.826	0.900	
59	0.55	0.781	0.900	
113	0.48	0.725	0.900	
115	0.49	0.719	0.900	
206	0.52	0.831	0.900	
207	0.51	0.780	0.900	
208	0.51	0.808	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	8.8 V	Deflect	15.8 V
Extract 2	-105.0 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		19067	190665.40			0.374	
89		27752	277519.91			0.350	
205		22579	225792.32			0.346	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	19007	19053	19021	19187	19063
89	27768	27786	27603	27870	27733
205	22633	22606	22497	22663	22496

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	8.7 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-90.0 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	180 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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