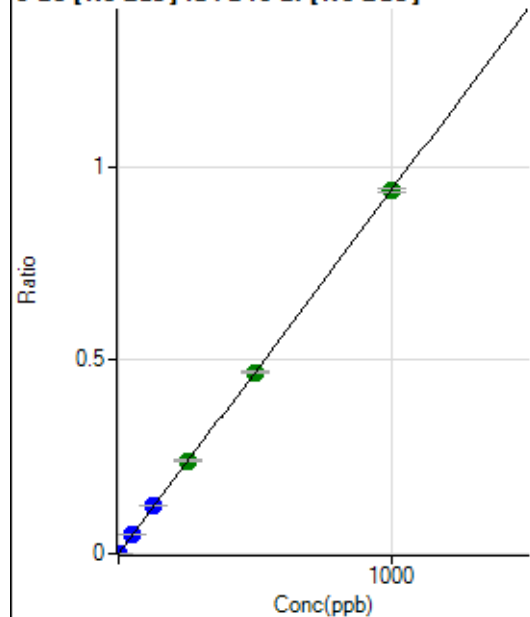


Calibration for 021LCSE.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7031224-MS.b\
 Analysis File: P7031224-MS.batch.bin
 DA Date-Time: 2024-03-13 09:24:50
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-03-12 09:16:28
2	006CALS.d	S02	2024-03-12 09:23:02
3	007CALS.d	S03	2024-03-12 09:26:18
4	008CALS.d	S04	2024-03-12 09:29:14
5	009CALS.d	S05	2024-03-12 09:32:02
6	010CALS.d	S06	2024-03-12 09:34:49
7	011CALS.d	S07	2024-03-12 09:37:35
8	012CALS.d	S08	2024-03-12 09:40:24

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	96.67	0.0000	P	15.1
2	☐	1.000	1.017	4716.31	0.0010	P	3.9
3	☐	50.000	53.432	245957.02	0.0502	P	2.3
4	☐	125.000	130.826	596885.64	0.1229	P	0.6
5	☐	250.000	255.431	1132071.91	0.2399	A	1.7
6	☐	500.000	499.413	2166867.92	0.4690	A	1.2
7	☐	1000.000	998.036	4143697.30	0.9373	A	1.1
8	☐			1131.16	0.0003	P	12.3

$$y = 9.3915E-004 * x + 1.9991E-005$$

$$R = 1.0000$$

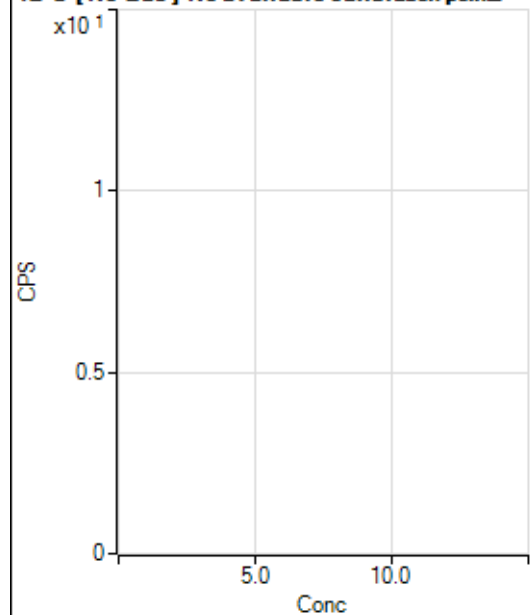
$$DL = 0.009629$$

$$BEC = 0.02129$$

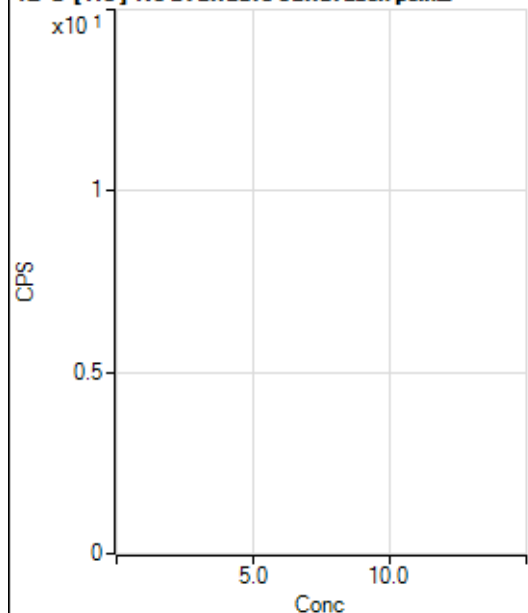
Weight: <None>

Min Conc: 0

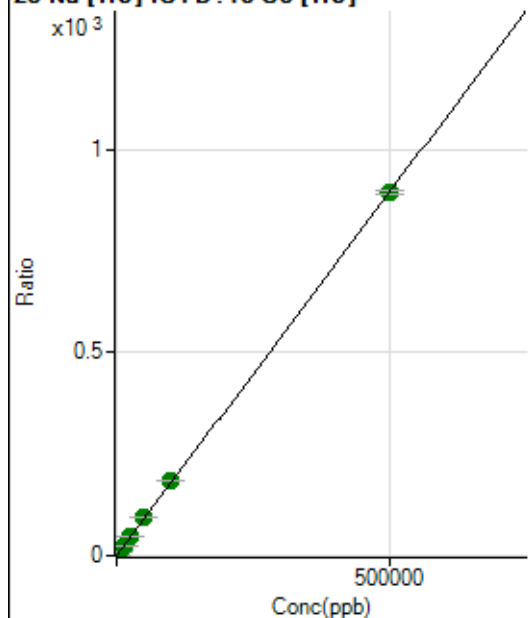
12 C [No Gas] No available calibration points



	Rj 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	37103.47	0.0466	P	1.1
2	☐	500.000	491.774	741226.20	0.9266	P	0.7
3	☐	5000.000	5267.700	7415336.42	9.4730	A	0.7
4	☐	12500.000	13368.111	18408670.56	23.9683	A	0.4
5	☐	25000.000	26380.844	36180606.13	47.2540	A	0.6
6	☐	50000.000	51770.292	71426178.38	92.6873	A	0.5
7	☐	100000.00	103180.00	145852907.82	184.6828	A	0.8
8	☐	500000.00	499093.55	697371954.05	893.1530	A	1.0

$$y = 0.0018 * x + 0.0466$$

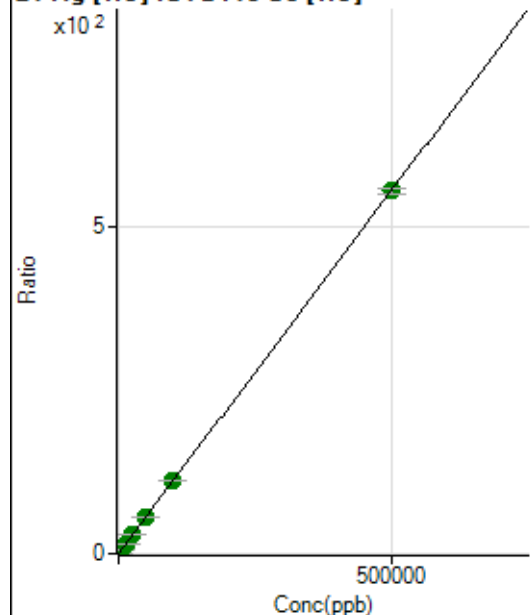
$$R = 1.0000$$

$$DL = 0.8803$$

$$BEC = 26.06$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	624.46	0.0008	P	12.6
2	☐	500.000	494.297	440481.26	0.5507	P	0.4
3	☐	5000.000	5217.523	4544143.86	5.8050	A	0.3
4	☐	12500.000	13085.547	11180795.53	14.5578	A	0.6
5	☐	25000.000	25820.331	21993570.23	28.7245	A	0.4
6	☐	50000.000	50602.461	43380186.58	56.2933	A	0.7
7	☐	100000.00	101523.14	89193020.89	112.9398	A	0.3
8	☐	500000.00	499577.30	433922700.20	555.7536	A	1.4

$$y = 0.0011 * x + 7.8488E-004$$

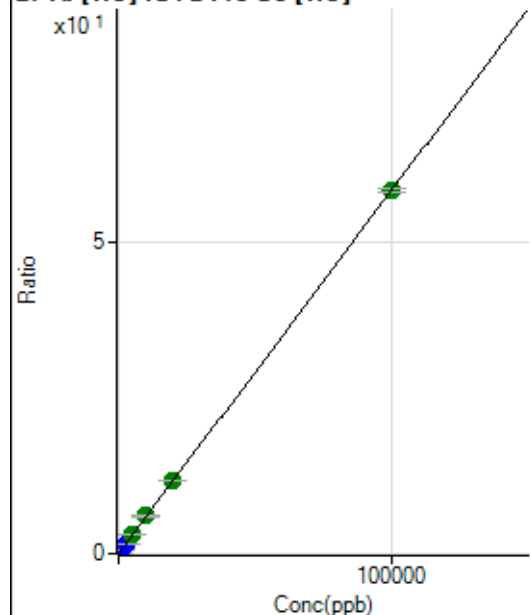
$$R = 1.0000$$

$$DL = 0.2659$$

$$BEC = 0.7055$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	842.25	0.0011	P	8.0
2	☐	20.000	18.960	9683.13	0.0121	P	0.4
3	☐	1000.000	1100.021	502501.41	0.6419	P	0.6
4	☐	2500.000	2700.935	1209362.37	1.5746	P	0.2
5	☐	5000.000	5248.151	2341860.19	3.0586	A	0.6
6	☐	10000.000	10344.150	4645036.18	6.0275	A	2.0
7	☐	20000.000	20301.651	9341630.14	11.8287	A	0.4
8	☐	100000.00	99886.824	45437749.88	58.1948	A	1.2

$$y = 5.8260E-004 * x + 0.0011$$

$$R = 1.0000$$

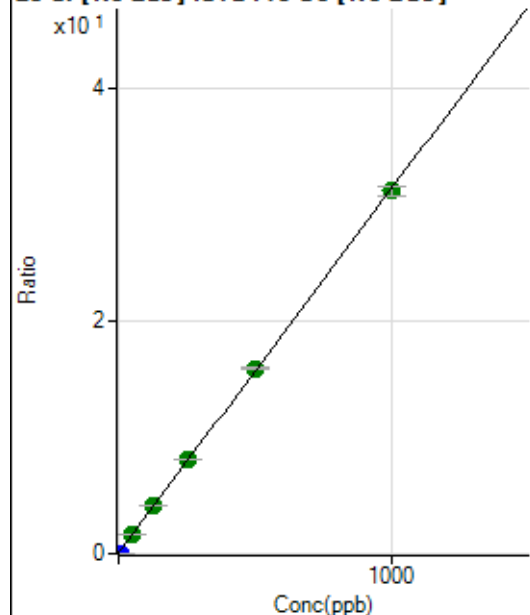
$$DL = 0.4352$$

$$BEC = 1.817$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	606668.41	0.0598	P	4.4
2	☐	10.000	0.192	674341.43	0.0658	P	4.1
3	☐	50.000	53.132	17638084.60	1.7254	A	0.9
4	☐	125.000	131.822	41736301.88	4.1921	A	0.3
5	☐	250.000	258.215	80271374.36	8.1542	A	0.8
6	☐	500.000	506.284	157783249.87	15.9305	A	0.6
7	☐	1000.000	993.893	307625077.64	31.2158	A	2.7
8	☐			1198019.96	0.1239	A	1.9

$$y = 0.0313 * x + 0.0598$$

$$R = 0.9998$$

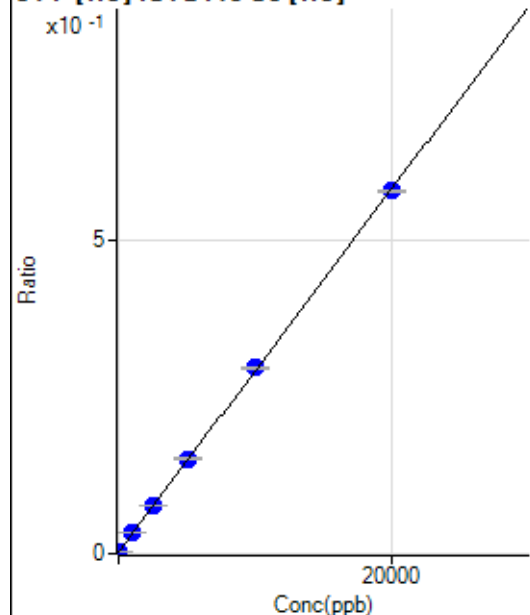
$$DL = 0.2498$$

$$BEC = 1.908$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.674	2333.53	0.0029	P	2.4
2	☐	0.000	15.674	3070.34	0.0038	P	1.8
3	☐	1000.000	1025.236	25831.91	0.0330	P	0.7
4	☐	2500.000	2569.786	59607.77	0.0776	P	1.3
5	☐	5000.000	5131.628	116084.58	0.1516	P	0.4
6	☐	10000.000	10123.913	227959.54	0.2958	P	0.4
7	☐	20000.000	19895.151	456517.82	0.5781	P	0.6
8	☐			2375.77	0.0030	P	6.5

$$y = 2.8885E-005 * x + 0.0034$$

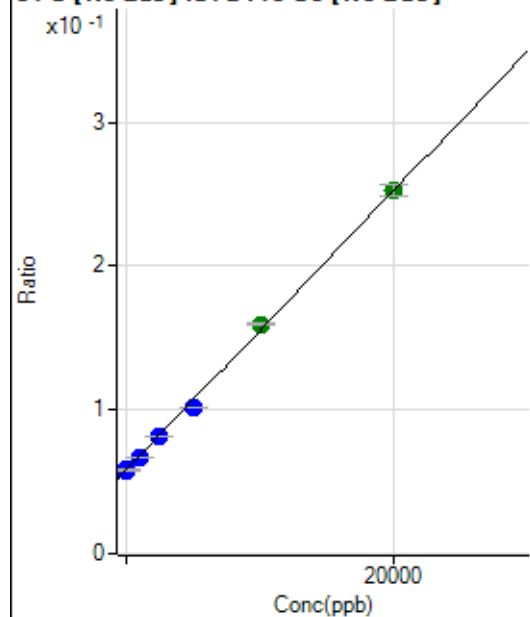
$$R = 0.9999$$

$$DL = 7.266$$

$$BEC = 117.2$$

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	-31.485	586538.80	0.0578	P	1.0
2	☐	0.000	31.485	598380.24	0.0584	P	1.1
3	☐	1000.000	914.687	685269.29	0.0670	P	0.8
4	☐	2500.000	2373.116	808742.67	0.0812	P	0.3
5	☐	5000.000	4469.344	1000639.18	0.1016	P	0.5
6	☐	10000.000	10426.426	1581274.75	0.1597	A	0.9
7	☐	20000.000	19939.577	2486051.20	0.2523	A	3.3
8	☐			515722.14	0.0533	P	1.2

$$y = 9.7375E-006 * x + 0.0581$$

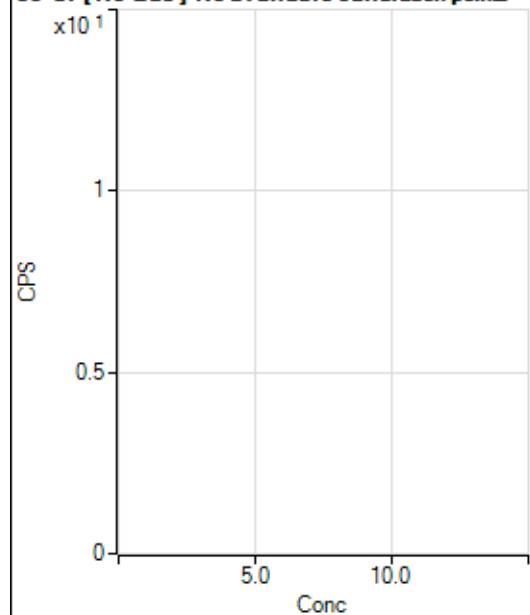
R = 0.9993

DL = 183.5

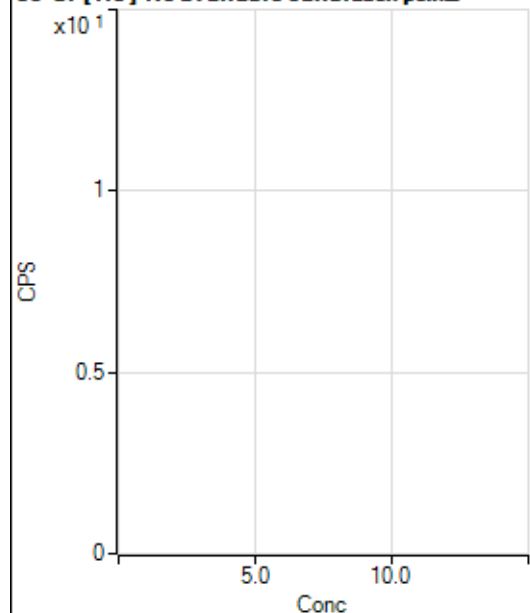
BEC = 5969

Weight: <None>

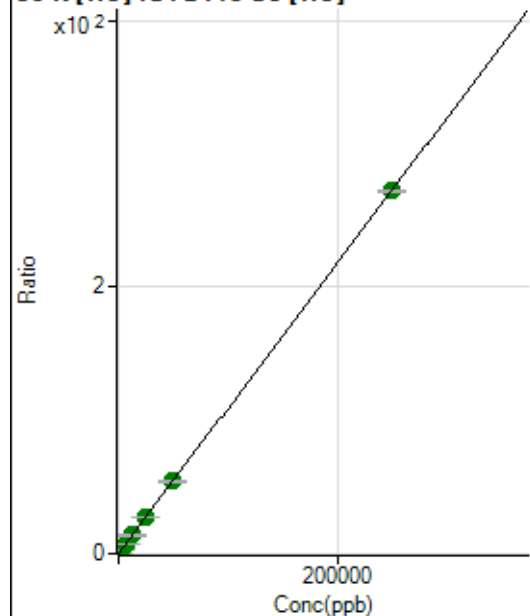
Min Conc: 0

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	94339.77	0.1186	P	0.1
2	☐	500.000	487.043	518633.43	0.6484	P	0.5
3	☐	2500.000	2552.473	2266272.24	2.8951	A	1.0
4	☐	6250.000	6294.903	5350098.19	6.9661	A	0.6
5	☐	12500.000	12518.521	10517226.72	13.7360	A	0.9
6	☐	25000.000	24795.165	20876007.46	27.0903	A	0.9
7	☐	50000.000	49623.945	42724221.03	54.0986	A	0.7
8	☐	250000.00	250093.14	212505174.61	272.1656	A	0.7

$$y = 0.0011 * x + 0.1186$$

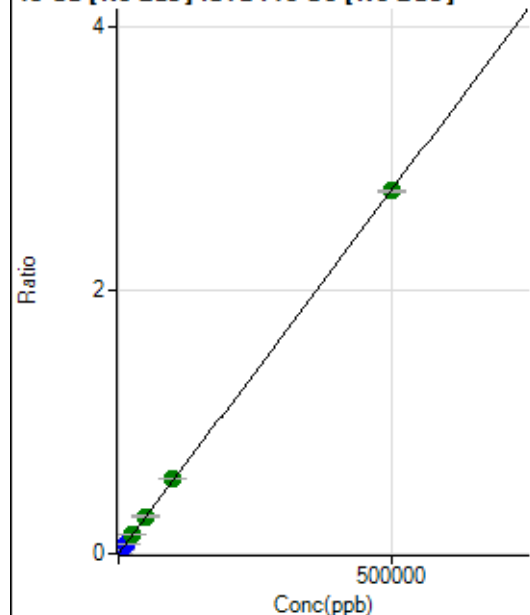
$$R = 1.0000$$

$$DL = 0.4149$$

$$BEC = 109$$

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	960.80	0.0001	P	4.4
2	☐	500.000	486.004	28405.55	0.0028	P	0.6
3	☐	5000.000	5351.357	302540.34	0.0296	P	1.0
4	☐	12500.000	13426.796	737815.20	0.0741	P	1.0
5	☐	25000.000	26130.261	1419128.12	0.1441	A	1.1
6	☐	50000.000	51516.346	2813736.26	0.2841	A	0.3
7	☐	100000.00	103382.96	5617800.47	0.5700	A	2.1
8	☐	500000.00	499088.59	26610951.11	2.7514	A	0.5

$$y = 5.5126\text{E-}006 * x + 9.4705\text{E-}005$$

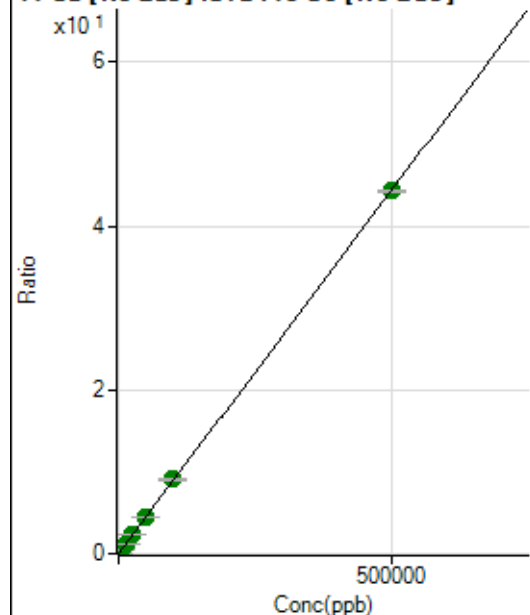
$$R = 1.0000$$

$$DL = 2.247$$

$$BEC = 17.18$$

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	16119.95	0.0016	P	3.2
2	☐	500.000	486.354	457788.61	0.0447	P	0.8
3	☐	5000.000	5101.937	4639723.06	0.4539	A	1.2
4	☐	12500.000	12868.248	11372988.75	1.1423	A	0.1
5	☐	25000.000	25631.954	22384060.17	2.2738	A	1.3
6	☐	50000.000	50944.160	44747183.84	4.5177	A	0.7
7	☐	100000.00	102611.62	89671265.82	9.0980	A	1.7
8	☐	500000.00	499341.44	428154737.88	44.2676	A	0.6

$$y = 8.8649\text{E-}005 * x + 0.0016$$

$$R = 1.0000$$

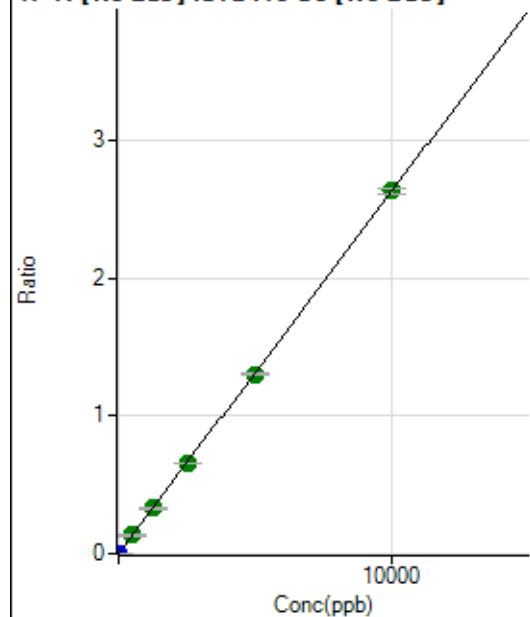
$$DL = 1.741$$

$$BEC = 17.93$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	143.34	0.0000	P	18.0
2	☐	5.000	4.763	12986.79	0.0013	P	3.2
3	☐	500.000	505.317	1360200.81	0.1331	A	1.5
4	☐	1250.000	1255.123	3289970.12	0.3305	A	1.4
5	☐	2500.000	2492.283	6459441.36	0.6562	A	1.6
6	☐	5000.000	4964.156	12945712.31	1.3070	A	0.2
7	☐	10000.000	10018.945	25999039.34	2.6379	A	1.9
8	☐			6328.04	0.0007	P	5.7

$$y = 2.6329E-004 * x + 1.4139E-005$$

$$R = 1.0000$$

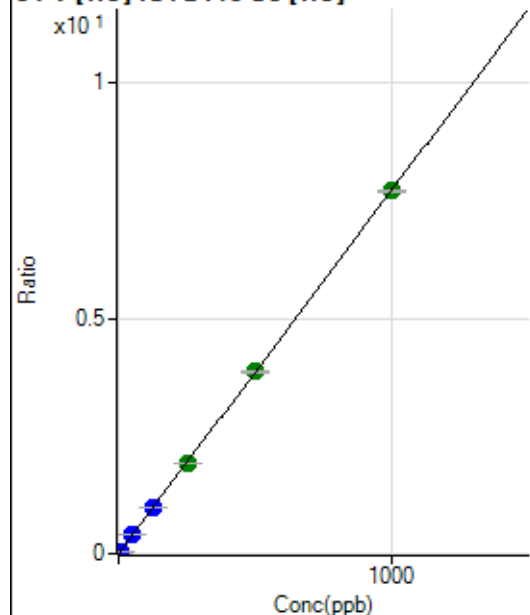
$$DL = 0.02903$$

$$BEC = 0.0537$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.89	0.0000	P	56.6
2	☐	5.000	4.782	29512.22	0.0369	P	0.6
3	☐	50.000	51.110	308496.80	0.3941	P	0.9
4	☐	125.000	127.689	756121.55	0.9845	P	0.9
5	☐	250.000	249.878	1475157.56	1.9266	A	0.1
6	☐	500.000	501.518	2979787.00	3.8668	A	0.8
7	☐	1000.000	998.881	6082186.71	7.7015	A	0.5
8	☐			3018.11	0.0039	P	1.5

$$y = 0.0077 * x + 2.3727E-005$$

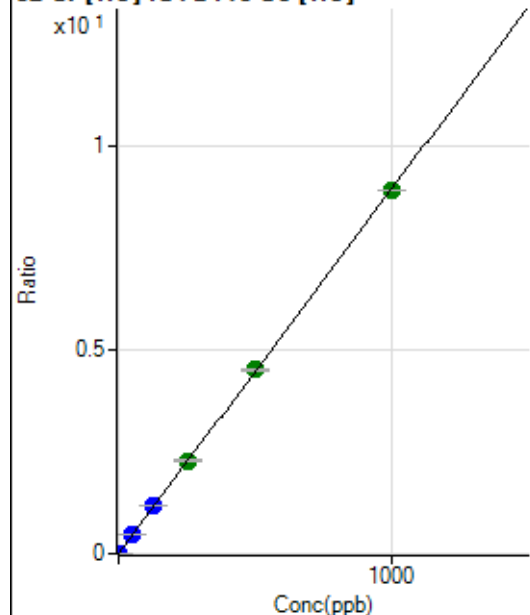
$$R = 1.0000$$

$$DL = 0.005229$$

$$BEC = 0.003077$$

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	2476.90	0.0031	P	5.0
2	☐	2.000	1.957	16473.53	0.0206	P	1.7
3	☐	50.000	52.228	367622.22	0.4696	P	0.4
4	☐	125.000	130.073	894702.75	1.1649	P	0.7
5	☐	250.000	254.633	1744001.87	2.2775	A	2.2
6	☐	500.000	505.459	3481643.18	4.5180	A	1.4
7	☐	1000.000	995.367	7023855.59	8.8939	A	0.2
8	☐			212104.59	0.2717	P	0.4

$$y = 0.0089 * x + 0.0031$$

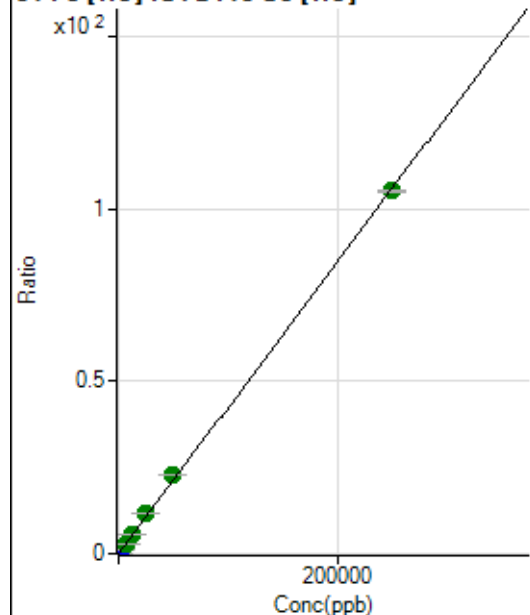
$$R = 1.0000$$

$$DL = 0.05251$$

$$BEC = 0.3485$$

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	2285.75	0.0029	P	3.2
2	☐	50.000	54.802	20810.00	0.0260	P	1.3
3	☐	2500.000	2910.683	964471.88	1.2321	P	0.3
4	☐	6250.000	7003.078	2273770.45	2.9603	A	0.9
5	☐	12500.000	13769.479	4454655.39	5.8179	A	0.5
6	☐	25000.000	27183.104	8848641.26	11.4826	A	0.8
7	☐	50000.000	53571.462	17869280.84	22.6267	A	0.3
8	☐	250000.00	248980.98	82100701.56	105.1502	A	0.6

$$y = 4.2231E-004 * x + 0.0029$$

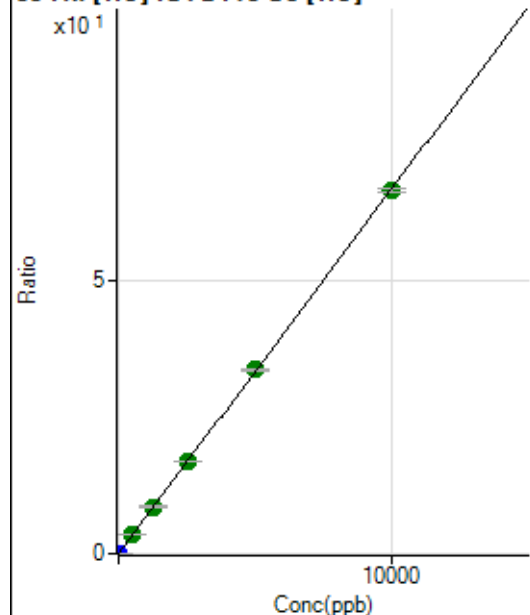
$$R = 0.9999$$

$$DL = 0.6496$$

$$BEC = 6.803$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	212.23	0.0003	P	5.0
2	☐	1.000	0.956	5309.86	0.0066	P	2.3
3	☐	500.000	510.774	2665263.19	3.4048	A	1.8
4	☐	1250.000	1286.824	6587707.47	8.5775	A	1.4
5	☐	2500.000	2548.782	13007985.08	16.9890	A	0.2
6	☐	5000.000	5058.850	25985258.50	33.7196	A	1.0
7	☐	10000.000	9953.238	52393329.78	66.3428	A	0.9
8	☐			51443.11	0.0659	P	1.0

$$y = 0.0067 * x + 2.6675E-004$$

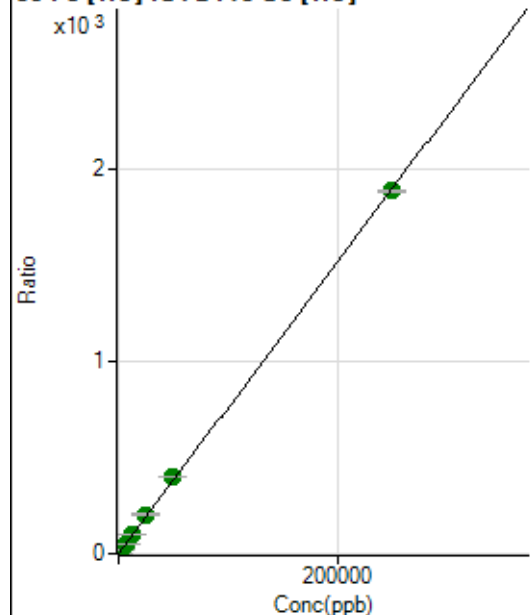
$$R = 1.0000$$

$$DL = 0.005954$$

$$BEC = 0.04002$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14433.79	0.0181	P	2.1
2	☐	50.000	52.649	333367.93	0.4168	P	0.8
3	☐	2500.000	2738.681	16246142.54	20.7536	A	0.7
4	☐	6250.000	6901.608	40147249.40	52.2725	A	0.3
5	☐	12500.000	13508.572	78324628.83	102.2961	A	0.4
6	☐	25000.000	26995.827	157524694.32	204.4126	A	1.2
7	☐	50000.000	52817.801	315832630.85	399.9194	A	0.2
8	☐	250000.00	249167.75	1473022395.8	1,886.550	A	0.4

$$y = 0.0076 * x + 0.0181$$

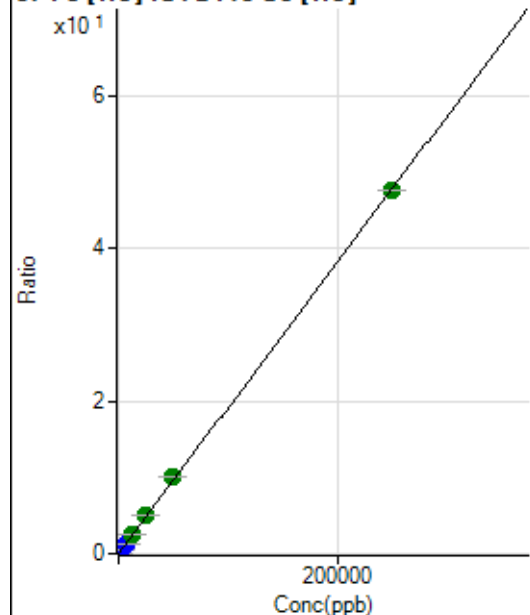
$$R = 0.9999$$

$$DL = 0.1512$$

$$BEC = 2.396$$

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	998.93	0.0013	P	0.9
2	☐	50.000	56.012	9541.99	0.0119	P	0.3
3	☐	2500.000	2894.201	432691.56	0.5527	P	1.2
4	☐	6250.000	7189.149	1053076.25	1.3711	P	0.5
5	☐	12500.000	13633.443	1990020.14	2.5991	A	0.7
6	☐	25000.000	26915.551	3953186.92	5.1300	A	1.1
7	☐	50000.000	52371.479	7882054.12	9.9806	A	0.7
8	☐	250000.00	249250.05	37084624.72	47.4954	A	0.1

$$y = 1.9055\text{E-}004 * x + 0.0013$$

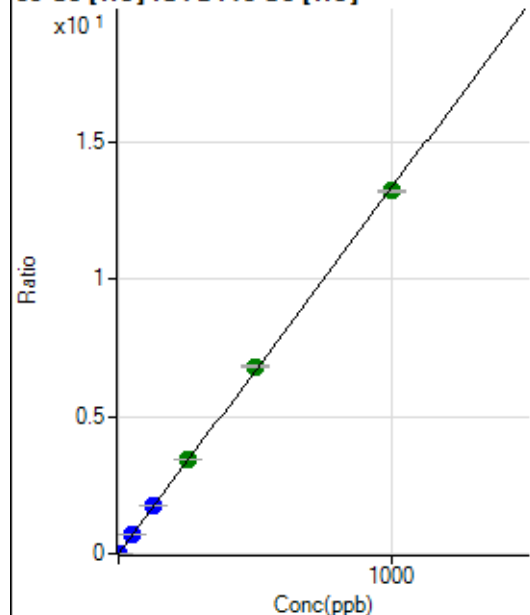
R = 0.9999

DL = 0.1798

BEC = 6.589

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	101.11	0.0001	P	17.1
2	☐	1.000	1.023	10989.68	0.0137	P	1.2
3	☐	50.000	52.739	549622.07	0.7021	P	0.4
4	☐	125.000	130.413	1333346.48	1.7360	P	0.3
5	☐	250.000	257.470	2624199.86	3.4273	A	0.9
6	☐	500.000	511.162	5243441.07	6.8042	A	0.9
7	☐	1000.000	991.738	10425402.41	13.2011	A	0.4
8	☐			32198.97	0.0412	P	0.5

$$y = 0.0133 * x + 1.2711\text{E-}004$$

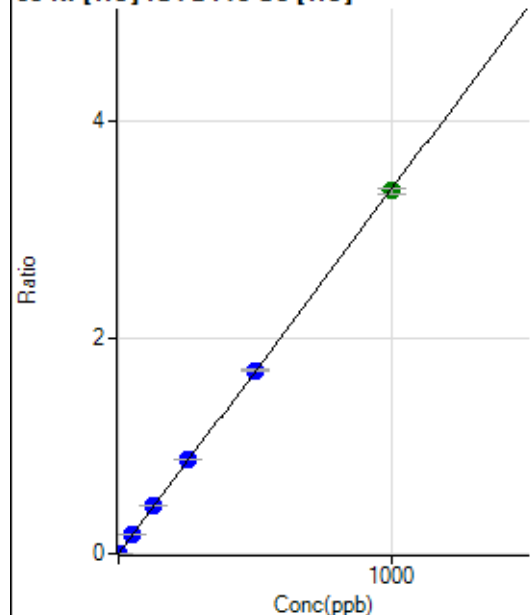
R = 0.9999

DL = 0.004895

BEC = 0.009549

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	64.44	0.0001	P	11.9
2	☐	1.000	1.016	2805.85	0.0035	P	4.2
3	☐	50.000	53.209	140558.92	0.1796	P	0.9
4	☐	125.000	132.136	342375.71	0.4458	P	1.0
5	☐	250.000	257.605	665347.61	0.8690	P	1.1
6	☐	500.000	503.654	1309229.23	1.6990	P	0.7
7	☐	1000.000	995.219	2651223.92	3.3570	A	1.2
8	☐			51921.67	0.0665	P	0.6

$$y = 0.0034 * x + 8.0989E-005$$

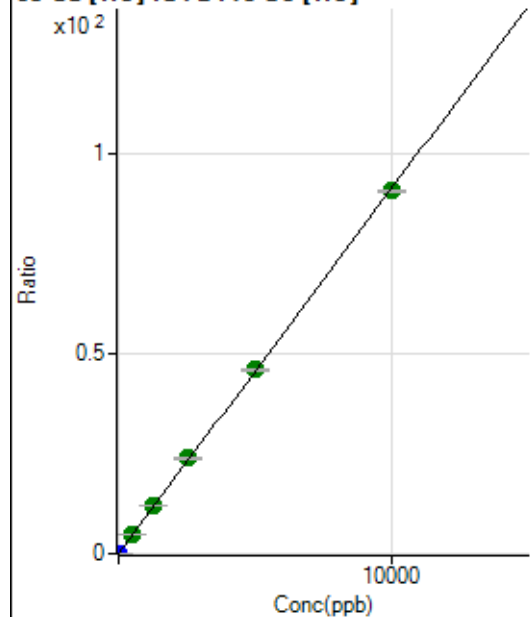
$$R = 0.9999$$

$$DL = 0.008537$$

$$BEC = 0.02401$$

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	2046.83	0.0026	P	5.3
2	☐	2.000	1.919	16038.70	0.0201	P	0.9
3	☐	500.000	533.624	3806609.63	4.8628	A	0.4
4	☐	1250.000	1332.116	9320120.69	12.1355	A	1.1
5	☐	2500.000	2620.239	18274372.37	23.8677	A	1.2
6	☐	5000.000	5044.966	35411815.03	45.9521	A	0.6
7	☐	10000.000	9935.512	71467793.94	90.4951	A	0.3
8	☐			28076.34	0.0360	P	2.6

$$y = 0.0091 * x + 0.0026$$

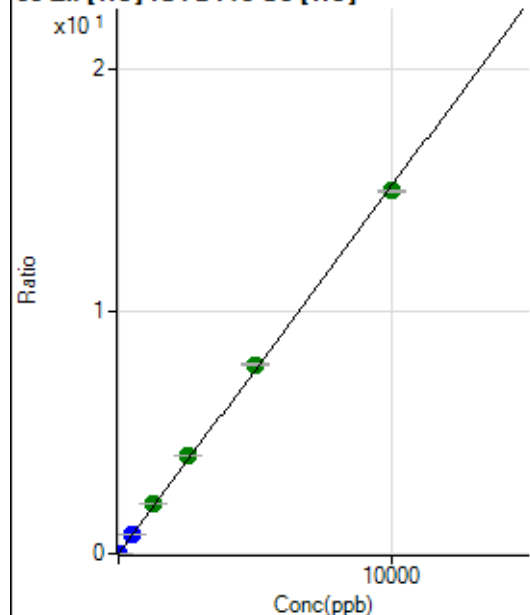
$$R = 0.9999$$

$$DL = 0.04522$$

$$BEC = 0.2825$$

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	1277.85	0.0016	P	2.9
2	☐	5.000	4.517	6764.92	0.0085	P	3.6
3	☐	500.000	547.424	651312.83	0.8320	P	0.1
4	☐	1250.000	1342.384	1565245.43	2.0379	A	0.6
5	☐	2500.000	2653.319	3083042.76	4.0266	A	0.5
6	☐	5000.000	5151.527	6023355.40	7.8163	A	0.8
7	☐	10000.000	9871.988	11827910.24	14.9770	A	0.8
8	☐			18993.29	0.0243	P	1.5

$$y = 0.0015 * x + 0.0016$$

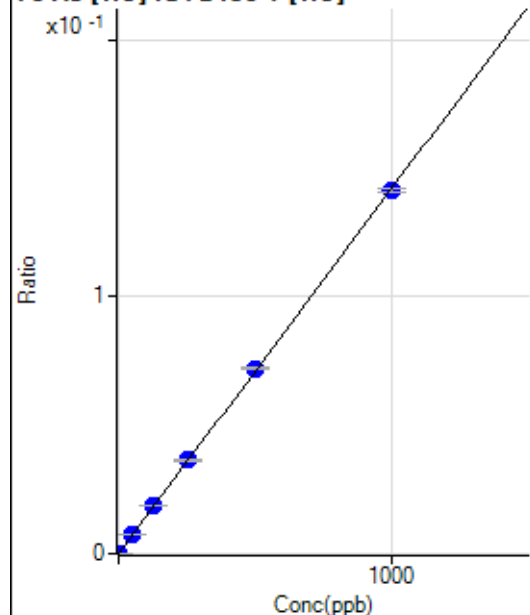
$$R = 0.9997$$

$$DL = 0.09146$$

$$BEC = 1.059$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.67	0.0000	P	50.6
2	☐	1.000	1.025	761.14	0.0001	P	5.6
3	☐	50.000	52.305	37674.35	0.0074	P	1.8
4	☐	125.000	129.780	92420.70	0.0184	P	0.2
5	☐	250.000	256.253	183783.51	0.0364	P	1.0
6	☐	500.000	507.117	365533.05	0.0721	P	0.6
7	☐	1000.000	994.166	734130.14	0.1413	P	1.1
8	☐			501.13	0.0001	P	11.1

$$y = 1.4213E-004 * x + 1.3098E-006$$

$$R = 0.9999$$

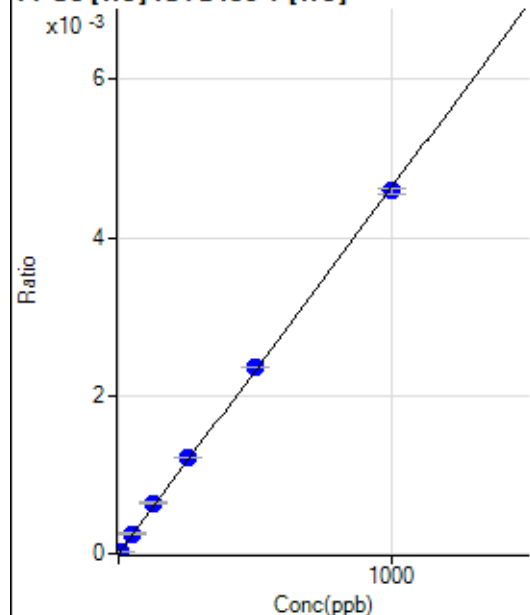
$$DL = 0.01399$$

$$BEC = 0.009215$$

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	5.046	121.11	0.0000	P	15.7
3	☐	50.000	53.929	1266.74	0.0002	P	5.0
4	☐	125.000	137.245	3187.04	0.0006	P	3.3
5	☐	250.000	261.535	6116.89	0.0012	P	0.3
6	☐	500.000	509.211	11970.47	0.0024	P	0.5
7	☐	1000.000	990.784	23859.29	0.0046	P	1.3
8	☐			132.23	0.0000	P	6.0

$$y = 4.6350\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

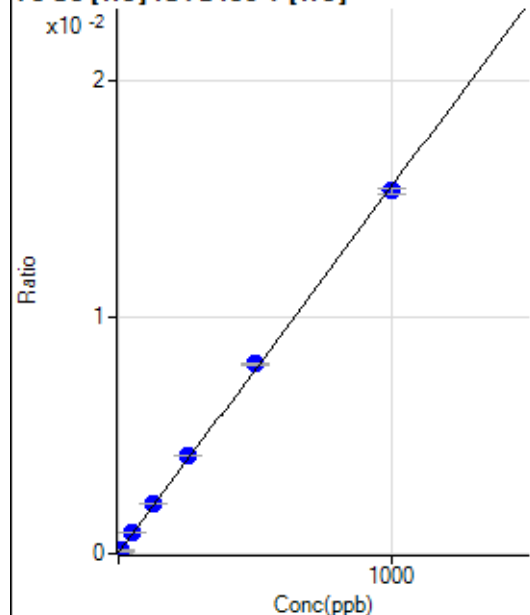
$$DL = 0$$

$$BEC = 0$$

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	213.34	0.0000	P	15.8
2	☐	5.000	5.243	636.68	0.0001	P	13.0
3	☐	50.000	54.530	4496.28	0.0009	P	2.0
4	☐	125.000	133.347	10563.87	0.0021	P	0.8
5	☐	250.000	263.823	20843.62	0.0041	P	0.4
6	☐	500.000	514.742	40672.38	0.0080	P	0.7
7	☐	1000.000	987.902	79764.40	0.0154	P	1.6
8	☐			732.25	0.0001	P	6.8

$$y = 1.5499\text{E-}005 * x + 4.1824\text{E-}005$$

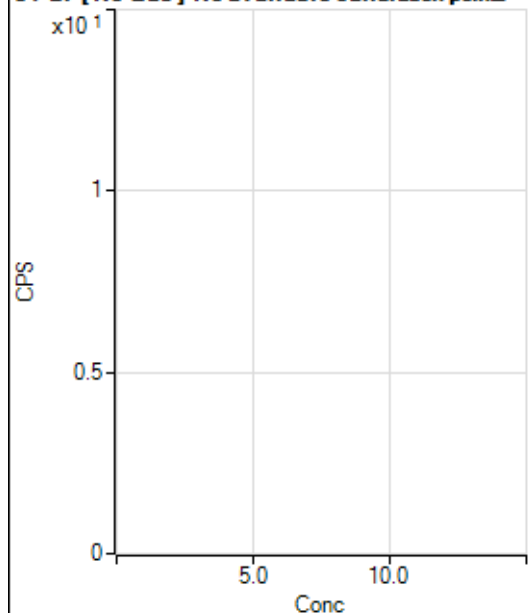
$$R = 0.9997$$

$$DL = 1.282$$

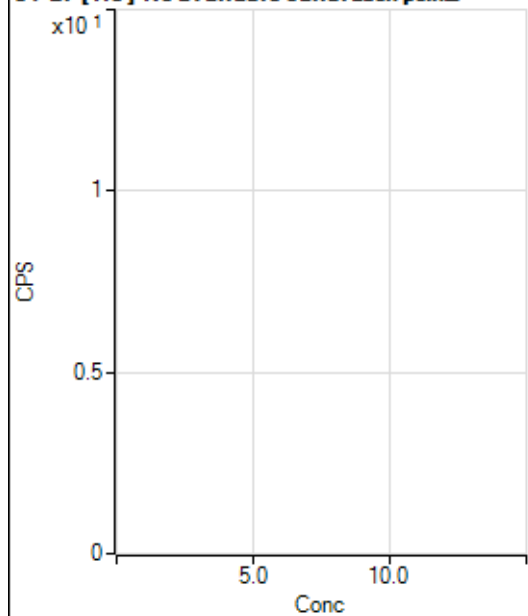
$$BEC = 2.699$$

Weight: <None>

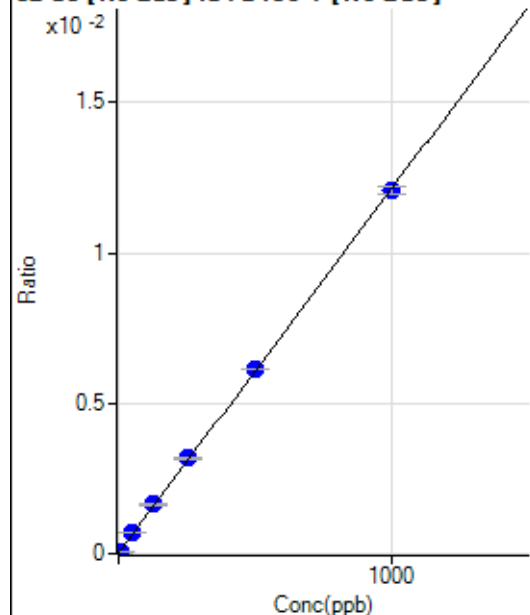
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15352.53		P	2.4
2	☐			15642.84		P	3.3
3	☐			15536.05		P	2.6
4	☐			15090.02		P	1.3
5	☐			15204.60		P	1.8
6	☐			15652.83		P	0.7
7	☐			17068.86		P	2.5
8	☐			19748.91		P	2.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			164.45		P	23.8
2	☐			134.45		P	22.5
3	☐			140.00		P	15.6
4	☐			130.00		P	9.2
5	☐			146.67		P	25.6
6	☐			146.67		P	12.7
7	☐			206.67		P	20.1
8	☐			642.24		P	4.9

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	572.99	0.0000	P	10.8
2	☐	5.000	5.177	2036.93	0.0001	P	2.0
3	☐	50.000	53.646	15918.34	0.0007	P	0.7
4	☐	125.000	133.342	38080.45	0.0016	P	1.1
5	☐	250.000	259.565	73861.90	0.0032	P	1.0
6	☐	500.000	503.608	143927.61	0.0061	P	0.5
7	☐	1000.000	994.579	279971.49	0.0121	P	2.1
8	☐			2062.04	0.0001	P	0.3

$$y = 1.2108\text{E-}005 * x + 2.4541\text{E-}005$$

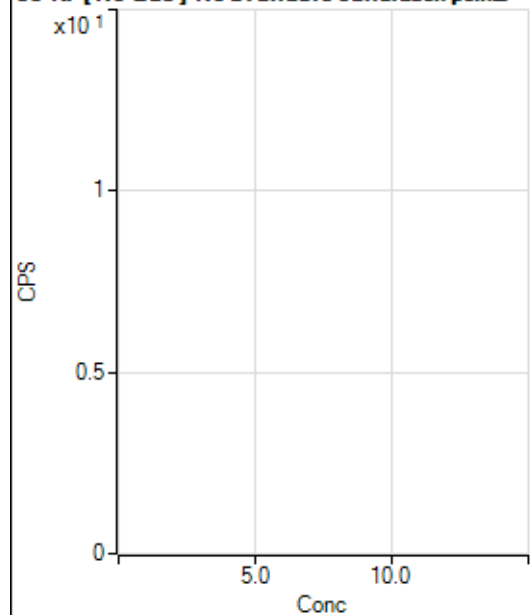
$$R = 0.9999$$

$$DL = 0.6579$$

$$BEC = 2.027$$

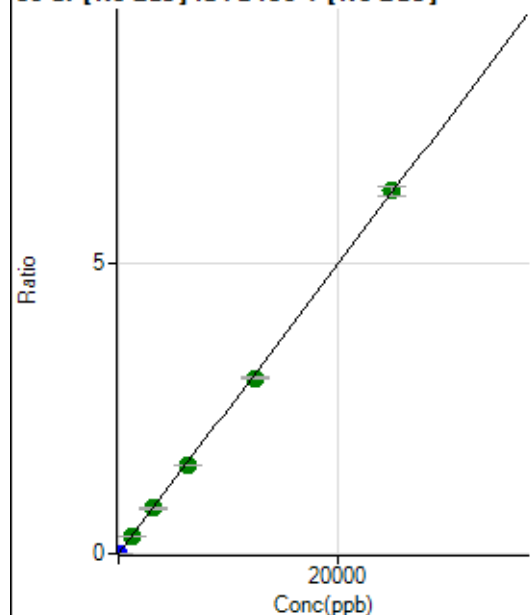
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			245.56		P	14.9
2	☐			234.45		P	1.6
3	☐			226.67		P	7.4
4	☐			228.89		P	6.6
5	☐			253.34		P	12.7
6	☐			255.56		P	2.7
7	☐			296.67		P	10.0
8	☐			267.78		P	8.3

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	418.90	0.0000	P	11.5
2	☐	1.000	0.964	5997.94	0.0003	P	1.5
3	☐	1250.000	1244.213	7283352.67	0.3084	A	1.3
4	☐	3125.000	3141.156	18091165.98	0.7787	A	0.4
5	☐	6250.000	6162.118	35620252.25	1.5275	A	0.8
6	☐	12500.000	12202.088	71109430.61	3.0247	A	0.6
7	☐	25000.000	25169.196	144746127.85	6.2391	A	2.4
8	☐			29677.90	0.0013	P	7.6

$$y = 2.4789E-004 * x + 1.7930E-005$$

$$R = 0.9999$$

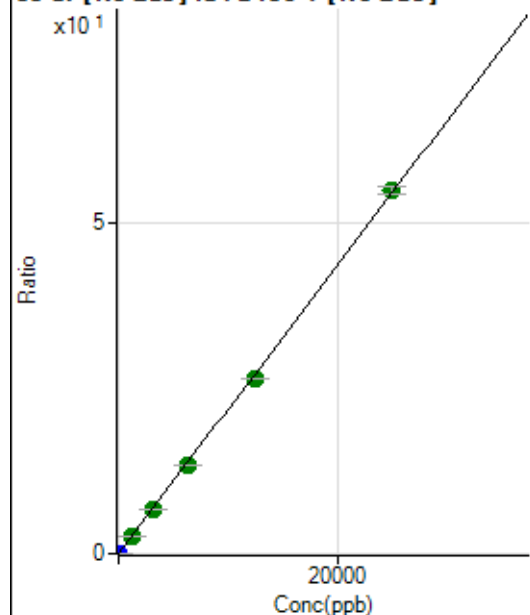
$$DL = 0.02496$$

$$BEC = 0.07233$$

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	630.02	0.0000	P	15.7
2	☐	1.000	0.945	48583.25	0.0021	P	1.0
3	☐	1250.000	1235.374	63405686.83	2.6851	A	0.7
4	☐	3125.000	3093.317	156210074.34	6.7233	A	0.1
5	☐	6250.000	6136.754	311029284.25	13.3381	A	1.3
6	☐	12500.000	12174.805	622084866.28	26.4617	A	0.3
7	☐	25000.000	25195.601	1270727883.2	54.7622	A	2.3
8	☐			257369.62	0.0115	P	8.8

$$y = 0.0022 * x + 2.6983E-005$$

$$R = 0.9999$$

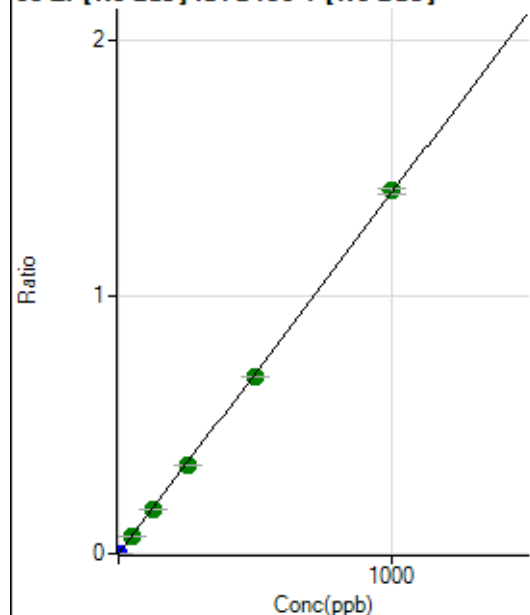
$$DL = 0.005835$$

$$BEC = 0.01241$$

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	911.15	0.0000	P	3.9
2	☐	1.000	0.881	29790.24	0.0013	P	0.2
3	☐	50.000	49.774	1651196.87	0.0699	A	0.7
4	☐	125.000	124.748	4070345.01	0.1752	A	0.3
5	☐	250.000	245.388	8035253.49	0.3446	A	0.8
6	☐	500.000	490.281	16183871.84	0.6884	A	0.2
7	☐	1000.000	1006.055	32777436.46	1.4126	A	1.4
8	☐			15777.46	0.0007	P	0.8

$$y = 0.0014 * x + 3.9007E-005$$

$$R = 0.9999$$

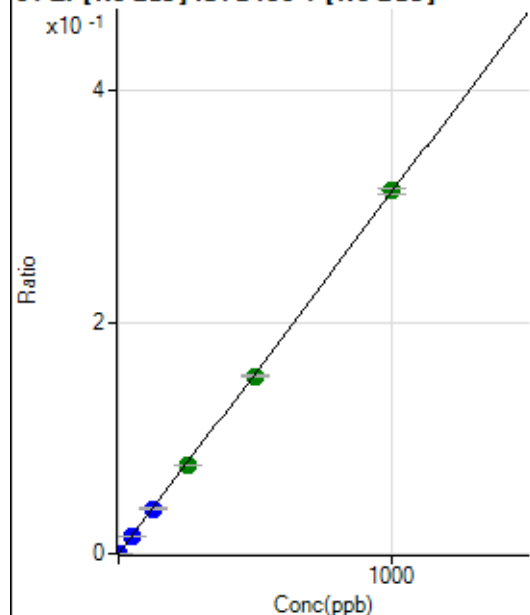
$$DL = 0.003212$$

$$BEC = 0.02778$$

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	197.78	0.0000	P	8.3
2	☐	1.000	0.868	6523.74	0.0003	P	0.6
3	☐	50.000	49.412	364365.68	0.0154	P	0.8
4	☐	125.000	124.914	905992.96	0.0390	P	0.4
5	☐	250.000	246.547	1794581.33	0.0770	A	0.8
6	☐	500.000	492.244	3612069.71	0.1536	A	1.3
7	☐	1000.000	1004.781	7276498.71	0.3136	A	1.8
8	☐			3552.69	0.0002	P	4.5

$$y = 3.1211E-004 * x + 8.4671E-006$$

$$R = 0.9999$$

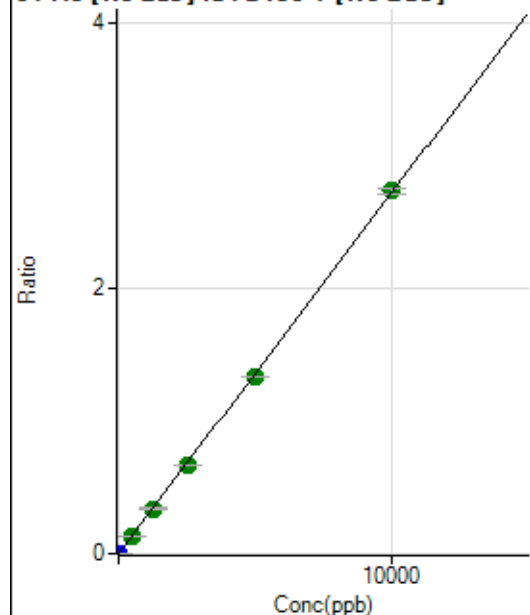
$$DL = 0.006775$$

$$BEC = 0.02713$$

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	351.12	0.0000	P	13.1
2	☐	5.000	5.399	34683.23	0.0015	P	0.3
3	☐	500.000	497.492	3199422.32	0.1355	A	1.2
4	☐	1250.000	1249.896	7908216.13	0.3404	A	0.9
5	☐	2500.000	2466.048	15659912.41	0.6715	A	0.4
6	☐	5000.000	4904.972	31401187.87	1.3357	A	0.5
7	☐	10000.000	10056.140	63540845.72	2.7384	A	1.5
8	☐			37140.39	0.0017	P	2.3

$$y = 2.7231\text{E-}004 * x + 1.5036\text{E-}005$$

$$R = 0.9999$$

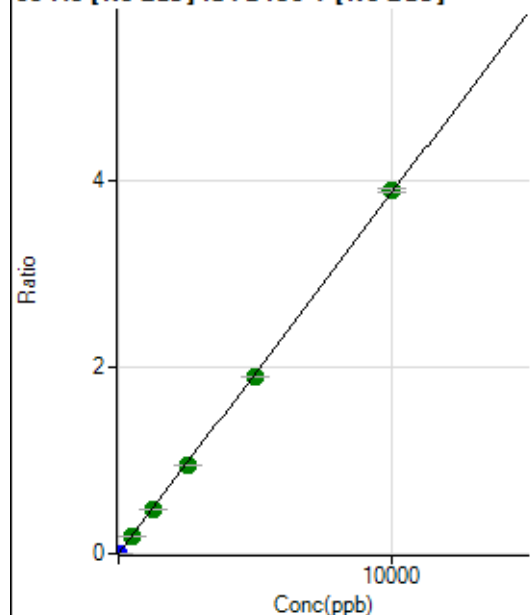
$$DL = 0.02163$$

$$BEC = 0.05522$$

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	87.78	0.0000	P	4.5
2	☐	5.000	4.651	42112.62	0.0018	P	0.9
3	☐	500.000	497.134	4542062.29	0.1923	A	1.1
4	☐	1250.000	1240.861	11154410.81	0.4801	A	0.7
5	☐	2500.000	2461.371	22207160.50	0.9523	A	1.0
6	☐	5000.000	4893.747	44512879.89	1.8934	A	0.4
7	☐	10000.000	10064.070	90355521.99	3.8939	A	1.2
8	☐			56136.09	0.0025	P	2.2

$$y = 3.8691\text{E-}004 * x + 3.7585\text{E-}006$$

$$R = 0.9999$$

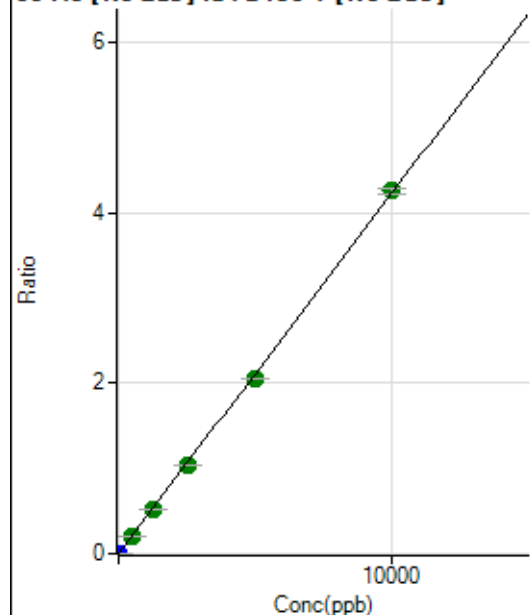
$$DL = 0.001312$$

$$BEC = 0.009714$$

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	175.56	0.0000	P	13.5
2	☐	5.000	4.733	46912.72	0.0020	P	0.8
3	☐	500.000	493.816	4931537.84	0.2088	A	1.0
4	☐	1250.000	1238.125	12164306.21	0.5236	A	1.2
5	☐	2500.000	2462.828	24286023.25	1.0415	A	1.2
6	☐	5000.000	4864.117	48355999.28	2.0569	A	0.1
7	☐	10000.000	10079.028	98891108.53	4.2622	A	1.9
8	☐			66885.42	0.0030	P	2.6

$$y = 4.2288\text{E-}004 * x + 7.5181\text{E-}006$$

$$R = 0.9999$$

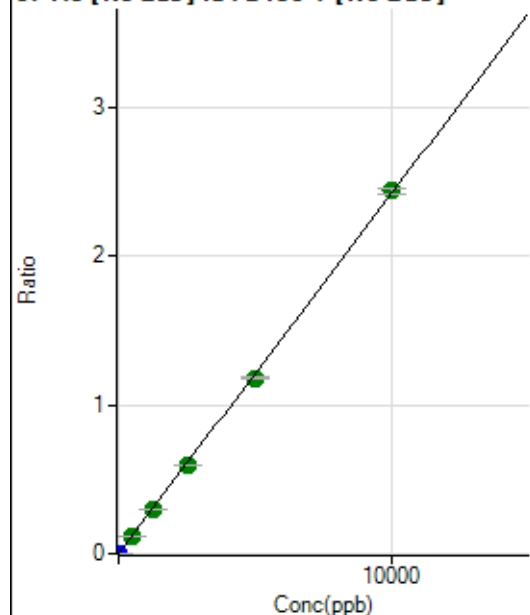
$$DL = 0.00718$$

$$BEC = 0.01778$$

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	54.44	0.0000	P	18.9
2	☐	5.000	4.685	26505.17	0.0011	P	0.6
3	☐	500.000	494.808	2824554.37	0.1196	A	1.7
4	☐	1250.000	1247.552	7006944.76	0.3016	A	0.8
5	☐	2500.000	2459.250	13863156.05	0.5945	A	1.0
6	☐	5000.000	4875.315	27706174.31	1.1786	A	0.4
7	☐	10000.000	10073.096	56499915.82	2.4351	A	1.8
8	☐			33745.62	0.0015	P	3.5

$$y = 2.4174\text{E-}004 * x + 2.3320\text{E-}006$$

$$R = 0.9999$$

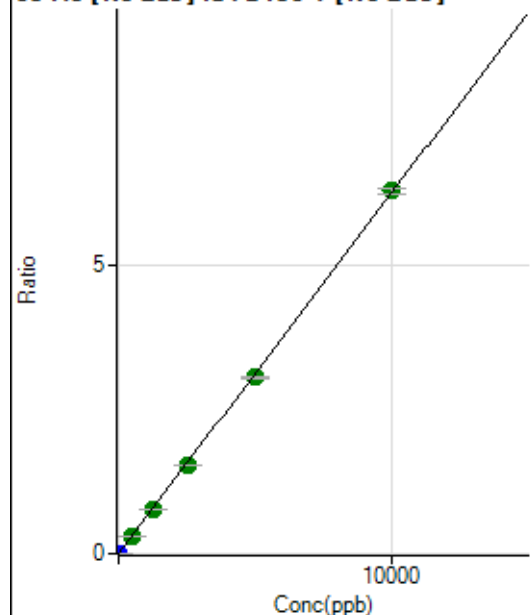
$$DL = 0.005481$$

$$BEC = 0.009647$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	128.89	0.0000	P	12.9
2	☐	5.000	4.673	68170.18	0.0029	P	0.6
3	☐	500.000	496.532	7310171.77	0.3096	A	1.8
4	☐	1250.000	1245.952	18048289.73	0.7768	A	0.9
5	☐	2500.000	2461.205	35783835.02	1.5345	A	0.8
6	☐	5000.000	4891.872	71704336.71	3.0500	A	1.2
7	☐	10000.000	10064.442	145592500.05	6.2751	A	1.9
8	☐			85478.21	0.0038	P	2.4

$$y = 6.2349\text{E-}004 * x + 5.5194\text{E-}006$$

$$R = 0.9999$$

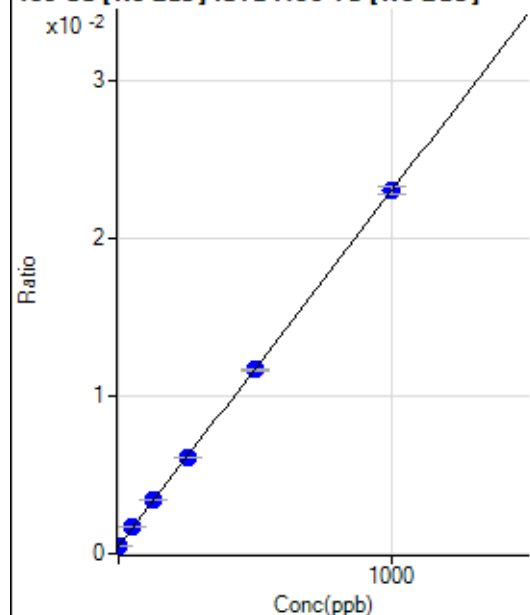
$$DL = 0.003428$$

$$BEC = 0.008853$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10155.86	0.0005	P	4.1
2	☐	1.000	0.703	10660.65	0.0005	P	1.9
3	☐	50.000	52.733	36169.47	0.0017	P	0.5
4	☐	125.000	130.707	74227.26	0.0034	P	0.8
5	☐	250.000	251.772	134161.48	0.0062	P	0.2
6	☐	500.000	497.097	254547.08	0.0117	P	1.4
7	☐	1000.000	1000.159	488554.00	0.0230	P	2.1
8	☐			9757.80	0.0005	P	2.3

$$y = 2.2557\text{E-}005 * x + 4.7808\text{E-}004$$

$$R = 1.0000$$

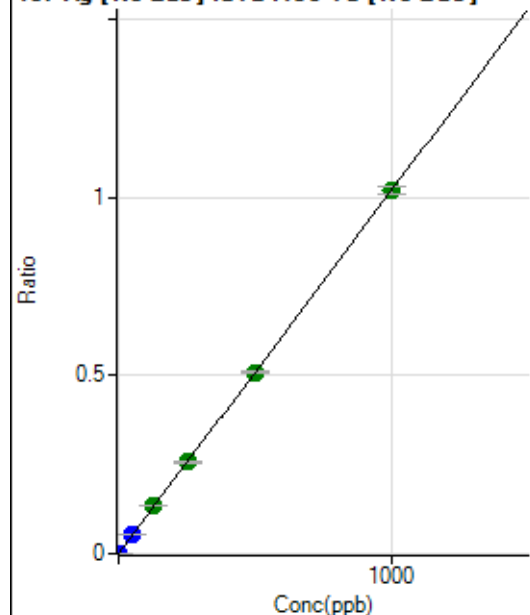
$$DL = 2.605$$

$$BEC = 21.19$$

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	160.01	0.0000	P	12.8
2	☐	1.000	0.948	21049.80	0.0010	P	3.0
3	☐	50.000	52.764	1168045.00	0.0539	P	0.8
4	☐	125.000	130.921	2894475.34	0.1336	A	0.4
5	☐	250.000	252.371	5611646.93	0.2576	A	1.2
6	☐	500.000	499.611	11101664.28	0.5099	A	1.1
7	☐	1000.000	998.724	21612653.84	1.0192	A	2.0
8	☐			7873.32	0.0004	P	7.0

$$y = 0.0010 * x + 7.5311E-006$$

$$R = 1.0000$$

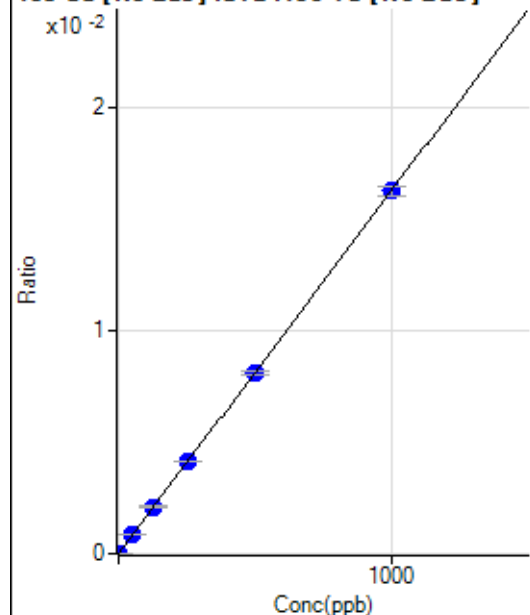
$$DL = 0.00283$$

$$BEC = 0.00738$$

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	26.67	0.0000	P	50.4
2	☐	1.000	0.951	361.12	0.0000	P	4.6
3	☐	50.000	53.288	18818.95	0.0009	P	1.8
4	☐	125.000	129.627	45687.21	0.0021	P	1.8
5	☐	250.000	253.037	89670.21	0.0041	P	0.5
6	☐	500.000	497.749	176233.20	0.0081	P	1.2
7	☐	1000.000	999.623	344655.55	0.0163	P	2.6
8	☐			277.78	0.0000	P	5.0

$$y = 1.6259E-005 * x + 1.2570E-006$$

$$R = 1.0000$$

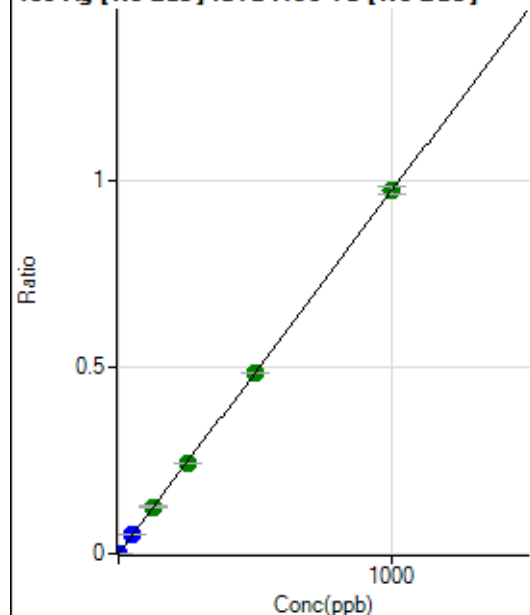
$$DL = 0.1168$$

$$BEC = 0.07731$$

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	93.34	0.0000	P	33.1
2	☐	1.000	0.956	20191.95	0.0009	P	2.2
3	☐	50.000	52.688	1113334.39	0.0513	P	1.2
4	☐	125.000	129.631	2735785.38	0.1263	A	0.5
5	☐	250.000	250.347	5313899.26	0.2439	A	0.4
6	☐	500.000	497.315	10548747.20	0.4845	A	0.3
7	☐	1000.000	1000.543	20669368.17	0.9747	A	2.1
8	☐			7215.20	0.0004	P	7.0

$$y = 9.7418\text{E-}004 * x + 4.3973\text{E-}006$$

$$R = 1.0000$$

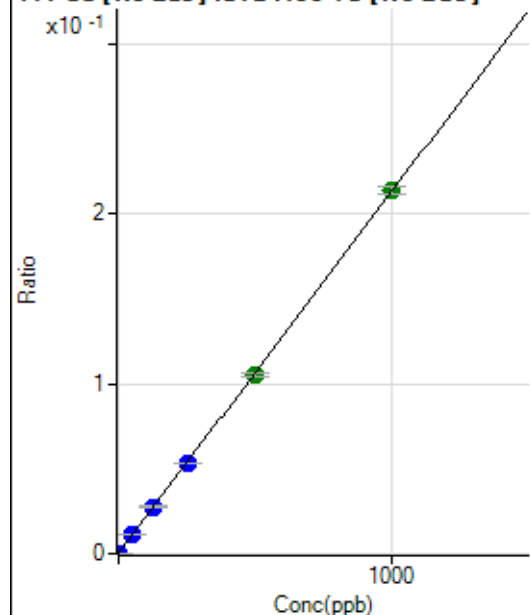
$$DL = 0.004487$$

$$BEC = 0.004514$$

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	7120.43	0.0003	P	4.1
2	☐	1.000	0.948	11584.82	0.0005	P	2.3
3	☐	50.000	51.847	246374.72	0.0114	P	0.2
4	☐	125.000	128.418	598741.36	0.0276	P	1.2
5	☐	250.000	248.941	1160579.01	0.0533	P	0.5
6	☐	500.000	494.964	2298577.36	0.1056	A	2.0
7	☐	1000.000	1002.263	4525962.50	0.2134	A	2.2
8	☐			9567.45	0.0005	P	1.1

$$y = 2.1262\text{E-}004 * x + 3.3518\text{E-}004$$

$$R = 1.0000$$

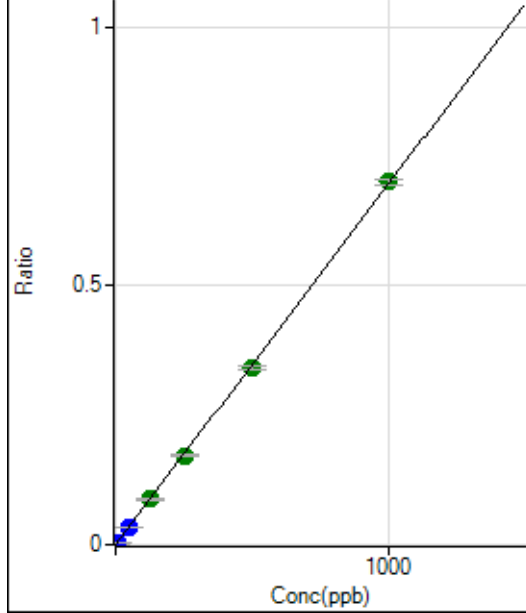
$$DL = 0.1933$$

$$BEC = 1.576$$

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	1776.79	0.0001	P	0.9
2	☐	5.000	4.639	71499.53	0.0033	P	0.8
3	☐	50.000	49.743	752753.53	0.0347	P	0.6
4	☐	125.000	125.287	1890856.71	0.0873	A	0.8
5	☐	250.000	246.717	3743494.74	0.1718	A	1.1
6	☐	500.000	490.193	7430535.51	0.3413	A	1.7
7	☐	1000.000	1005.703	14846366.03	0.7001	A	1.7
8	☐			17580.82	0.0009	P	0.6

$$y = 6.9603\text{E-}004 * x + 8.3643\text{E-}005$$

$$R = 0.9999$$

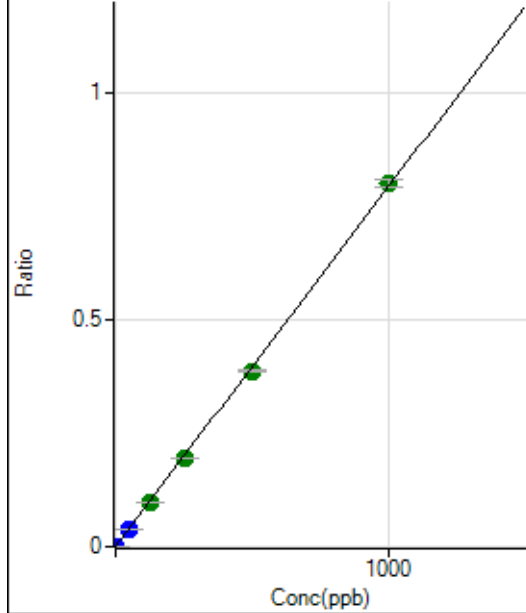
$$DL = 0.00339$$

$$BEC = 0.1202$$

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	132.23	0.0000	P	15.0
2	☐	2.000	1.815	31258.43	0.0014	P	1.3
3	☐	50.000	49.324	850316.34	0.0392	P	0.3
4	☐	125.000	124.145	2137414.08	0.0987	A	0.8
5	☐	250.000	246.388	4266411.77	0.1958	A	1.5
6	☐	500.000	487.484	8435240.50	0.3874	A	0.8
7	☐	1000.000	1007.302	16975016.55	0.8005	A	2.1
8	☐			12505.55	0.0006	P	7.1

$$y = 7.9470\text{E-}004 * x + 6.2238\text{E-}006$$

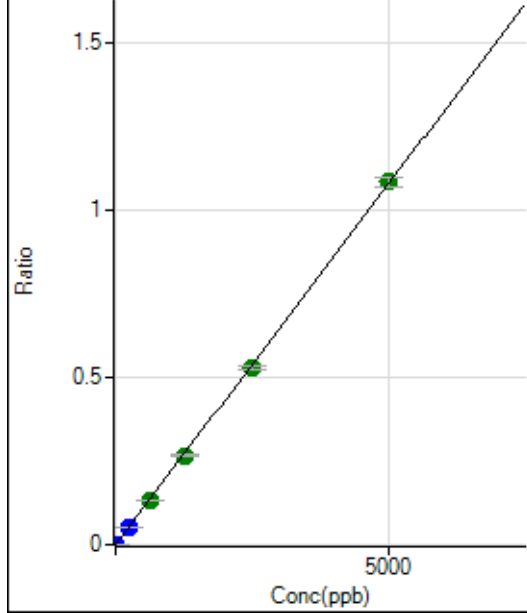
$$R = 0.9999$$

$$DL = 0.003532$$

$$BEC = 0.007832$$

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	42.22	0.0000	P	32.0
2	☐	10.000	8.861	41343.22	0.0019	P	3.2
3	☐	250.000	240.906	1128570.88	0.0520	P	0.8
4	☐	625.000	622.729	2913674.19	0.1345	A	0.4
5	☐	1250.000	1235.322	5813339.22	0.2668	A	1.3
6	☐	2500.000	2451.587	11528731.21	0.5295	A	1.3
7	☐	5000.000	5028.617	23031102.15	1.0861	A	2.3
8	☐			13190.65	0.0007	P	2.0

$$y = 2.1598\text{E-}004 * x + 1.9882\text{E-}006$$

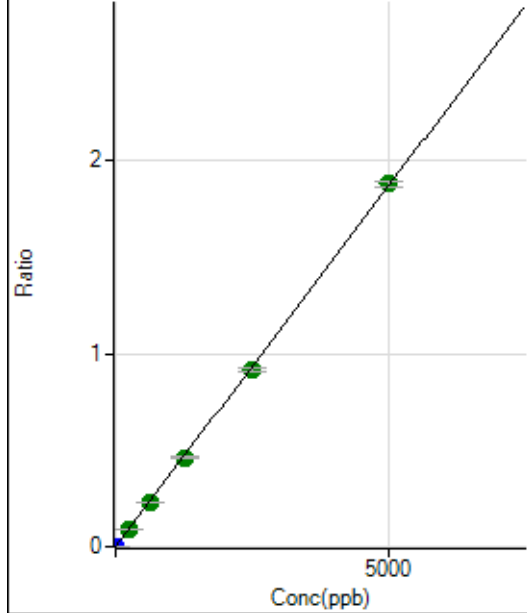
$$R = 0.9999$$

$$DL = 0.008836$$

$$BEC = 0.009206$$

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	78.89	0.0000	P	32.9
2	☐	10.000	8.927	72171.82	0.0033	P	1.8
3	☐	250.000	251.711	2042719.41	0.0942	A	0.9
4	☐	625.000	623.216	5051182.95	0.2332	A	0.8
5	☐	1250.000	1236.121	10077000.82	0.4625	A	0.6
6	☐	2500.000	2453.158	19983779.28	0.9178	A	1.4
7	☐	5000.000	5027.030	39886519.13	1.8808	A	1.8
8	☐			22723.78	0.0011	P	2.8

$$y = 3.7414\text{E-}004 * x + 3.7154\text{E-}006$$

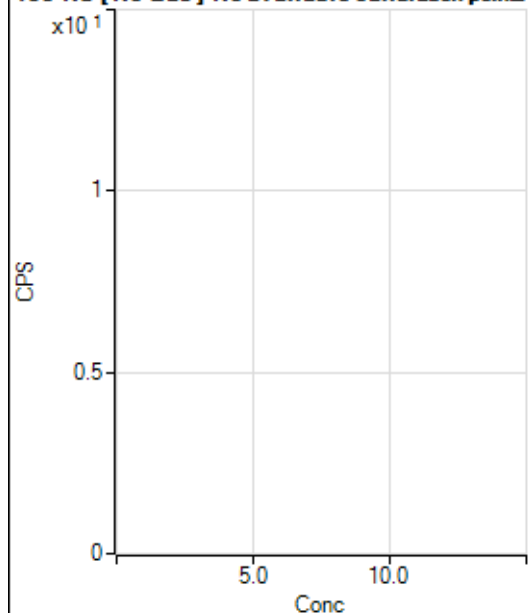
$$R = 0.9999$$

$$DL = 0.00981$$

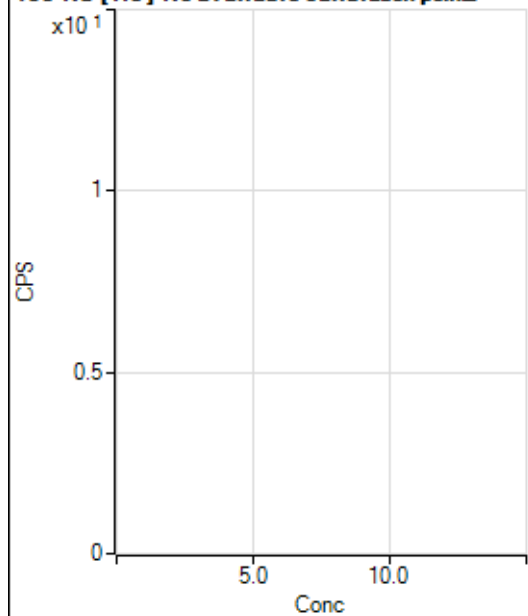
$$BEC = 0.009931$$

Weight: <None>

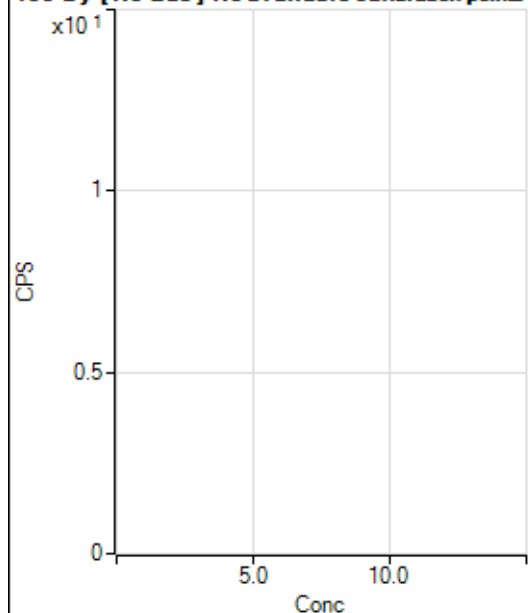
Min Conc: 0

150 Nd [No Gas] No available calibration points

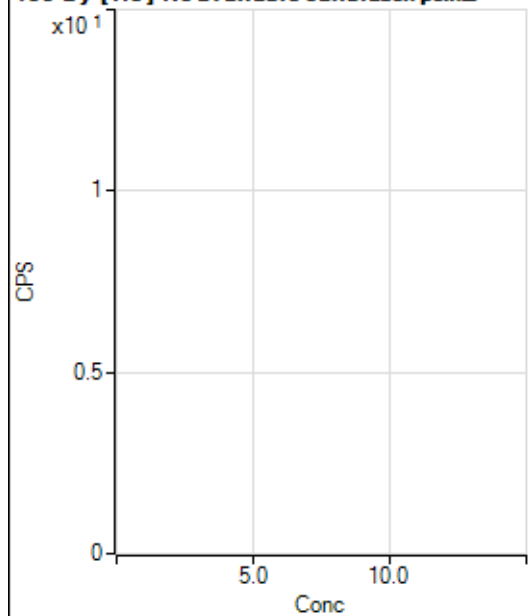
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.7
2	☐			27.78		P	30.2
3	☐			158.89		P	5.3
4	☐			287.79		P	14.0
5	☐			564.46		P	7.6
6	☐			1063.39		P	5.5
7	☐			2274.65		P	3.3
8	☐			556.68		P	1.0

150 Nd [He] No available calibration points

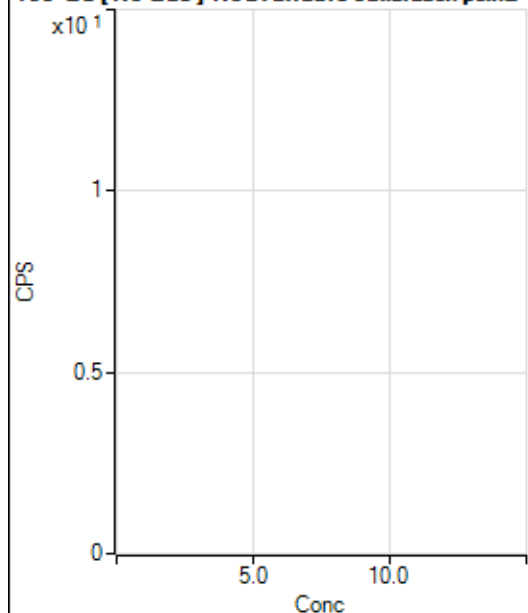
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			8.89		P	78.1
3	☐			37.78		P	27.0
4	☐			80.00		P	18.2
5	☐			143.34		P	18.5
6	☐			315.56		P	6.0
7	☐			640.02		P	9.6
8	☐			312.23		P	4.0

156 Dy [No Gas] No available calibration points

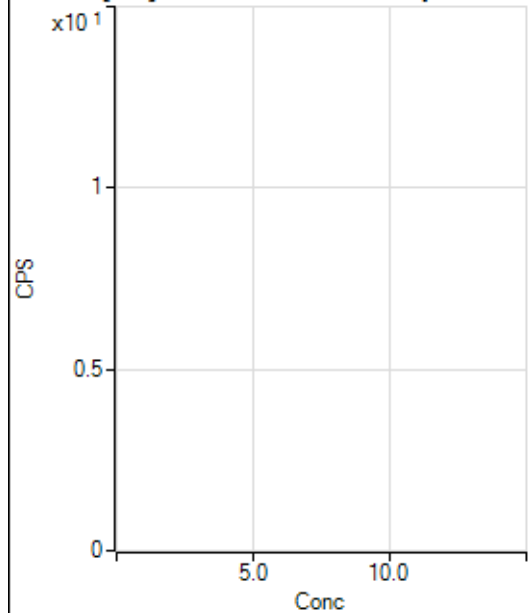
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.45		P	48.0
2	☐			17.78		P	10.8
3	☐			88.89		P	25.0
4	☐			211.11		P	8.1
5	☐			415.57		P	11.0
6	☐			758.92		P	12.1
7	☐			1482.32		P	7.0
8	☐			3737.20		P	3.8

156 Dy [He] No available calibration points

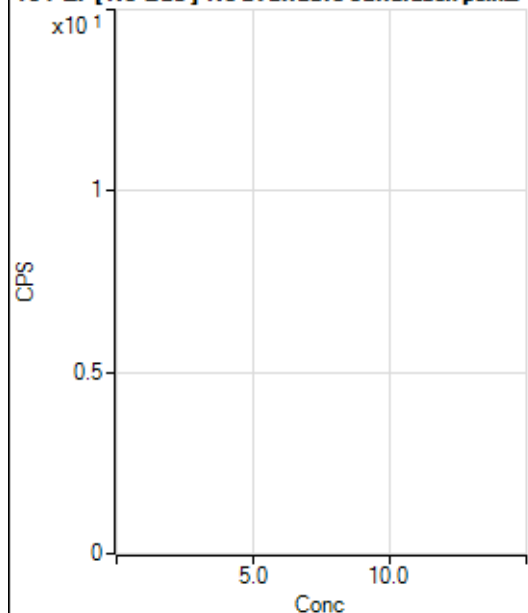
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			8.89		P	173.
3	☐			67.78		P	19.9
4	☐			224.45		P	18.9
5	☐			378.90		P	14.0
6	☐			778.92		P	3.0
7	☐			1641.23		P	7.3
8	☐			2513.58		P	4.1

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

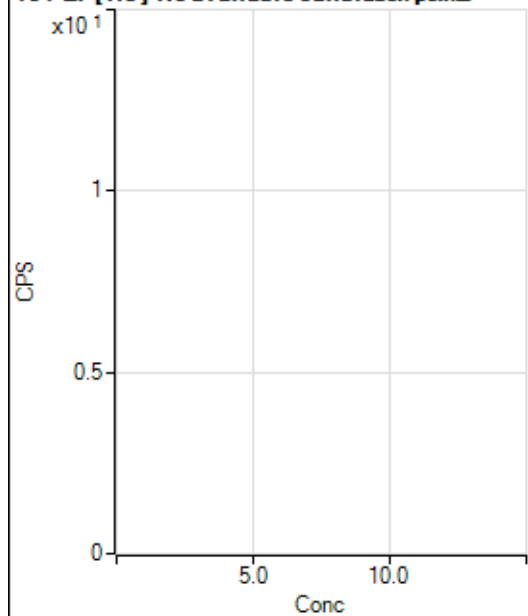
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			147.78		P	29.4
2	☐			165.56		P	15.4
3	☐			211.12		P	16.1
4	☐			304.45		P	7.0
5	☐			435.57		P	11.5
6	☐			687.80		P	7.4
7	☐			1398.97		P	2.1
8	☐			3929.48		P	5.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			726.69		P	8.0
2	☐			731.14		P	5.3
3	☐			782.25		P	1.5
4	☐			775.58		P	1.7
5	☐			890.04		P	6.0
6	☐			1080.05		P	5.4
7	☐			1508.99		P	5.1
8	☐			3107.05		P	6.8

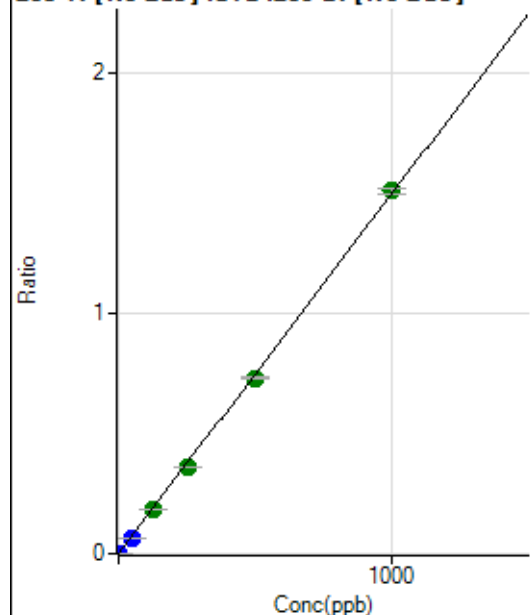
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			162.23		P	21.1
2	☐			176.67		P	13.6
3	☐			210.00		P	28.9
4	☐			293.34		P	5.2
5	☐			321.12		P	6.3
6	☐			448.90		P	12.5
7	☐			746.69		P	9.4
8	☐			650.02		P	15.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			98.89		P	39.1
2	☐			81.11		P	6.3
3	☐			115.56		P	10.1
4	☐			147.78		P	9.1
5	☐			160.00		P	23.2
6	☐			257.78		P	0.7
7	☐			445.57		P	6.5
8	☐			378.90		P	4.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	256.67	0.0000	P	5.1
2	☐	1.000	0.843	16878.34	0.0013	P	2.0
3	☐	50.000	44.894	902336.88	0.0672	P	1.4
4	☐	125.000	123.329	2449254.22	0.1846	A	1.2
5	☐	250.000	240.941	4772756.49	0.3607	A	1.0
6	☐	500.000	487.873	9453732.08	0.7304	A	1.1
7	☐	1000.000	1008.792	18748730.55	1.5102	A	1.4
8	☐			7372.08	0.0007	P	6.7

$$y = 0.0015 * x + 1.9649E-005$$

$$R = 0.9998$$

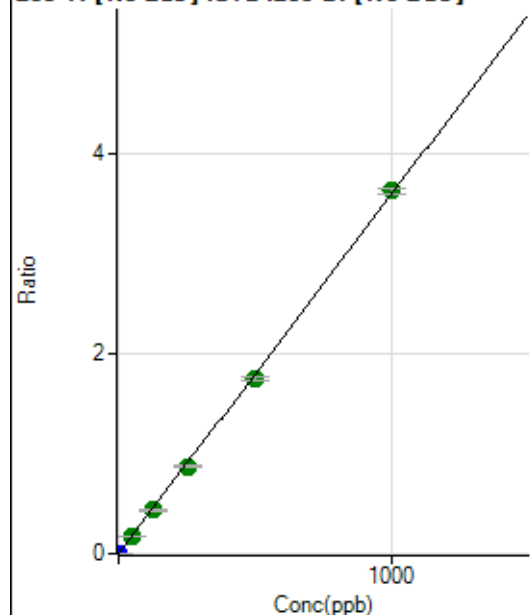
$$DL = 0.002015$$

$$BEC = 0.01313$$

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	598.91	0.0000	P	8.3
2	☐	1.000	0.837	40208.02	0.0031	P	2.4
3	☐	50.000	47.624	2296744.82	0.1711	A	1.2
4	☐	125.000	121.036	5767123.32	0.4348	A	2.6
5	☐	250.000	243.002	11550123.58	0.8729	A	1.3
6	☐	500.000	486.552	22622563.27	1.7478	A	1.3
7	☐	1000.000	1009.088	44997138.77	3.6248	A	1.9
8	☐			17514.78	0.0016	P	5.6

$$y = 0.0036 * x + 4.5839E-005$$

$$R = 0.9998$$

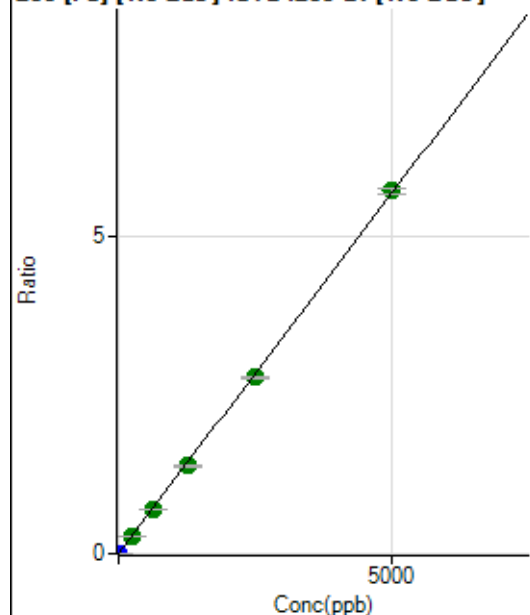
$$DL = 0.003162$$

$$BEC = 0.01276$$

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	235.56	0.0000	P	15.0
2	☐	1.000	0.887	13481.32	0.0010	P	4.5
3	☐	250.000	241.430	3671833.52	0.2736	A	1.5
4	☐	625.000	611.747	9193311.32	0.6931	A	2.4
5	☐	1250.000	1217.899	18258127.64	1.3799	A	1.7
6	☐	2500.000	2447.705	35896762.80	2.7733	A	1.4
7	☐	5000.000	5036.258	70841888.94	5.7062	A	1.4
8	☐			35490.66	0.0033	P	0.8

$$y = 0.0011 * x + 1.8029E-005$$

$$R = 0.9999$$

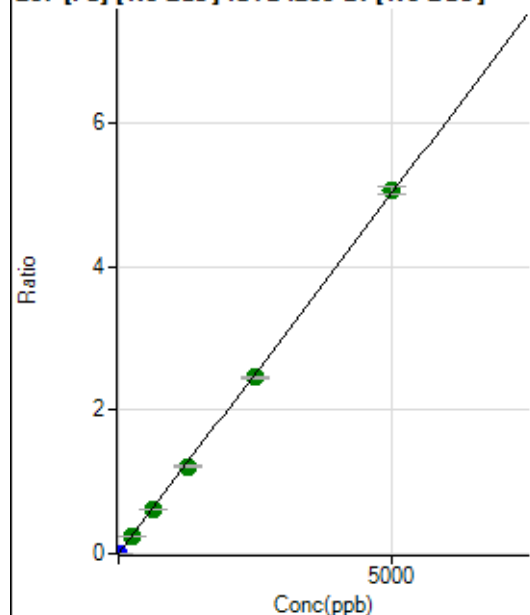
$$DL = 0.007147$$

$$BEC = 0.01591$$

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	215.56	0.0000	P	10.9
2	☐	1.000	0.908	12234.54	0.0009	P	1.8
3	☐	250.000	241.879	3261842.97	0.2430	A	0.5
4	☐	625.000	609.711	8124916.34	0.6125	A	1.4
5	☐	1250.000	1211.278	16101181.98	1.2169	A	1.6
6	☐	2500.000	2447.602	31826328.97	2.4589	A	1.6
7	☐	5000.000	5038.197	62828800.73	5.0614	A	2.2
8	☐			30389.54	0.0029	P	1.1

$$y = 0.0010 * x + 1.6503E-005$$

$$R = 0.9999$$

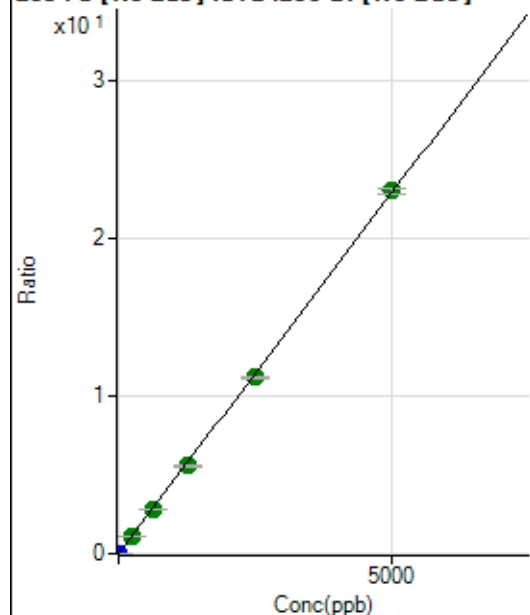
$$DL = 0.005378$$

$$BEC = 0.01643$$

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	1482.29	0.0001	P	14.2
2	☐	1.000	0.896	55445.08	0.0042	P	3.0
3	☐	250.000	240.562	14766522.14	1.1001	A	0.1
4	☐	625.000	611.843	37112532.22	2.7978	A	1.4
5	☐	1250.000	1216.125	73581351.82	5.5610	A	1.5
6	☐	2500.000	2453.556	145219998.95	11.2193	A	1.1
7	☐	5000.000	5033.807	285739889.63	23.0178	A	1.9
8	☐			140342.00	0.0132	P	2.1

$$y = 0.0046 * x + 1.1341E-004$$

$$R = 0.9999$$

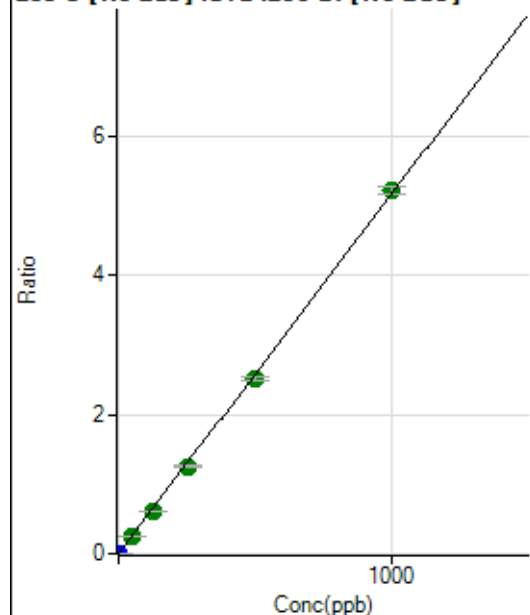
$$DL = 0.01054$$

$$BEC = 0.0248$$

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	36.66	0.0000	P	42.6
2	☐	1.000	0.786	53598.47	0.0041	P	1.1
3	☐	50.000	46.713	3240982.35	0.2415	A	0.6
4	☐	125.000	119.213	8173682.66	0.6162	A	1.4
5	☐	250.000	241.478	16514592.25	1.2482	A	1.7
6	☐	500.000	488.165	32658592.85	2.5232	A	2.2
7	☐	1000.000	1008.936	64734757.92	5.2150	A	2.2
8	☐			18400.62	0.0017	P	6.2

$$y = 0.0052 * x + 2.8137E-006$$

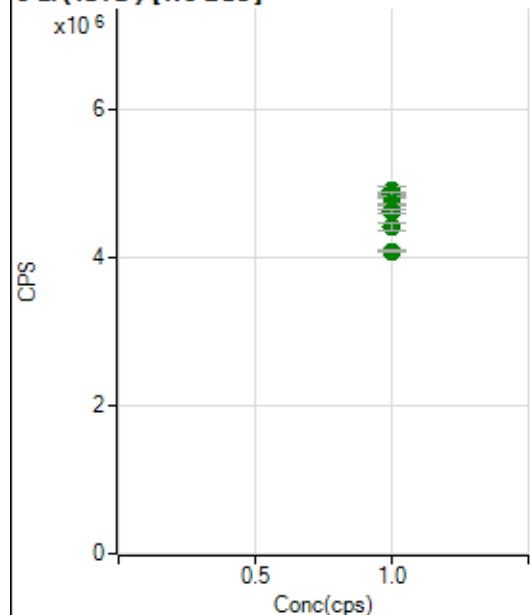
$$R = 0.9999$$

$$DL = 0.000695$$

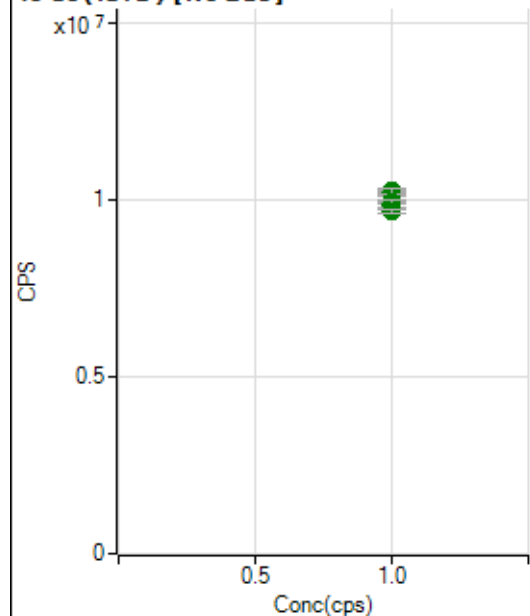
$$BEC = 0.0005444$$

Weight: <None>

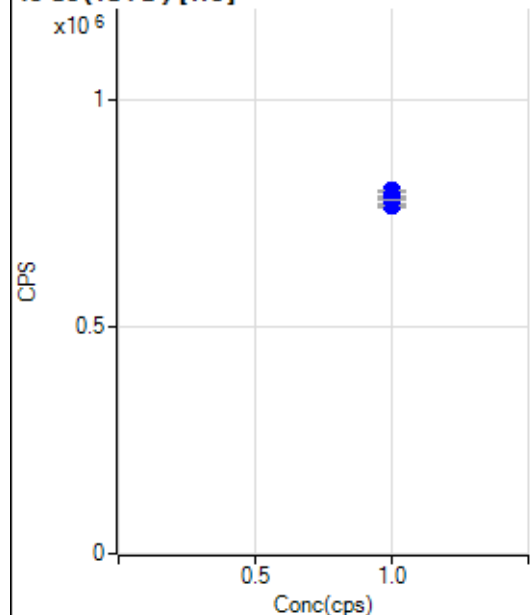
Min Conc: 0

6 Li (ISTD) [No Gas]

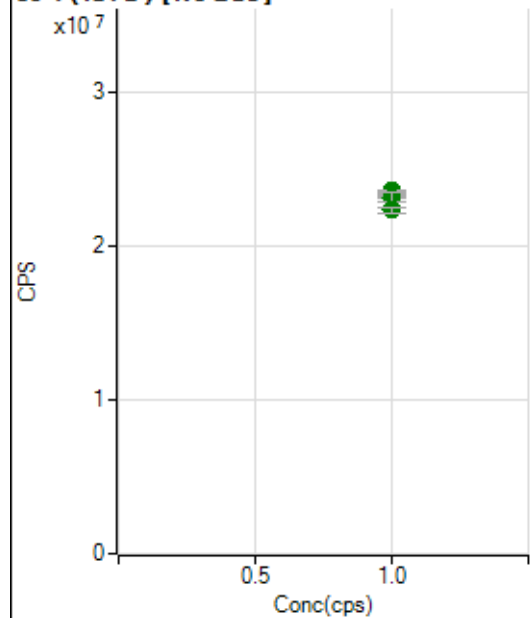
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4832553.19		A	1.5
2	☐	1.000		4838503.02		A	0.7
3	☐	1.000		4900962.11		A	2.0
4	☐	1.000		4857420.38		A	1.1
5	☐	1.000		4719081.28		A	0.6
6	☐	1.000		4620183.89		A	1.2
7	☐	1.000		4421585.59		A	2.7
8	☐	1.000		4089294.45		A	1.0

45 Sc (ISTD) [No Gas]

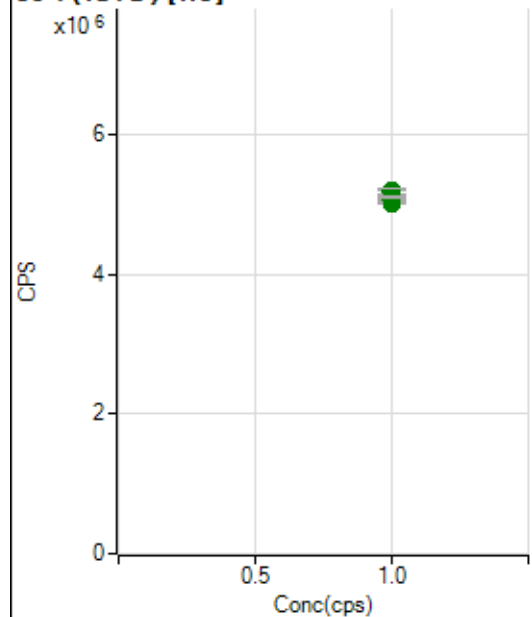
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10145056.72		A	1.0
2	☐	1.000		10240375.40		A	0.4
3	☐	1.000		10223591.24		A	1.2
4	☐	1.000		9955891.17		A	0.9
5	☐	1.000		9844732.08		A	1.1
6	☐	1.000		9904660.69		A	0.5
7	☐	1.000		9858577.91		A	2.1
8	☐	1.000		9672102.98		A	0.9

45 Sc (ISTD) [He]

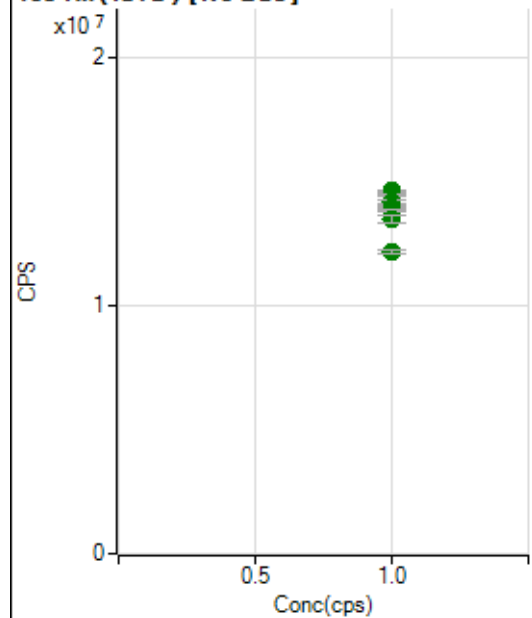
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		795652.13		P	0.2
2	☐	1.000		799926.96		P	0.8
3	☐	1.000		782801.39		P	0.3
4	☐	1.000		768045.50		P	0.7
5	☐	1.000		765676.93		P	0.6
6	☐	1.000		770622.46		P	0.3
7	☐	1.000		789741.73		P	0.2
8	☐	1.000		780804.72		P	0.3

89 Y (ISTD) [No Gas]

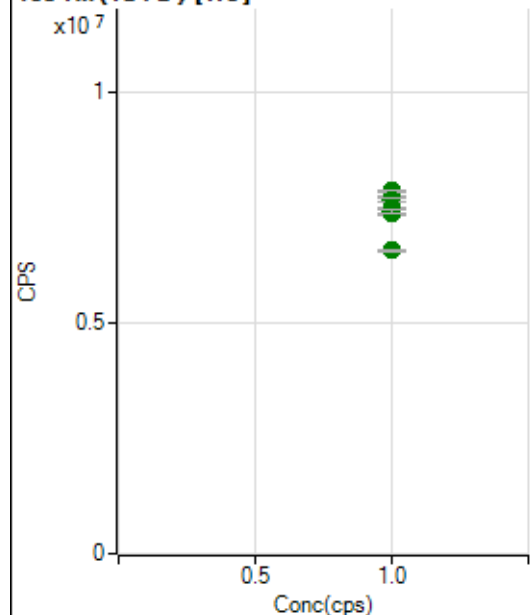
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		23355239.09		A	0.5
2	☐	1.000		23352544.10		A	0.5
3	☐	1.000		23614821.04		A	0.8
4	☐	1.000		23234061.04		A	0.8
5	☐	1.000		23319429.10		A	0.4
6	☐	1.000		23508787.71		A	0.8
7	☐	1.000		23209526.88		A	2.6
8	☐	1.000		22352823.56		A	1.2

89 Y(ISTD) [He]

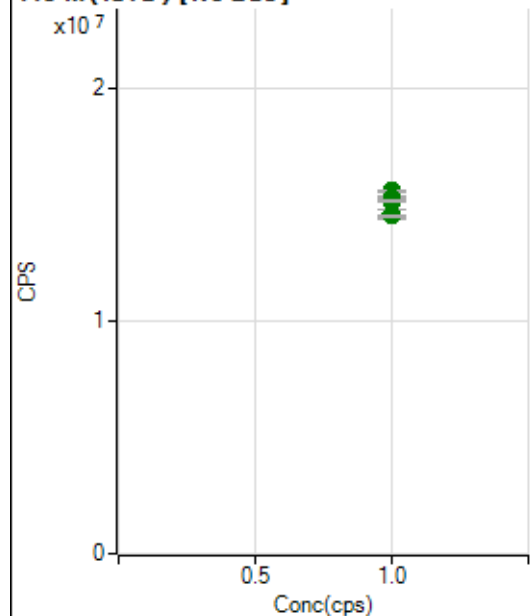
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5102955.20		A	0.8
2	☐	1.000		5175797.91		A	0.7
3	☐	1.000		5068335.20		A	2.2
4	☐	1.000		5010218.54		A	0.3
5	☐	1.000		5046006.87		A	0.4
6	☐	1.000		5071677.07		A	0.8
7	☐	1.000		5196121.10		A	1.4
8	☐	1.000		5108481.59		A	0.2

103 Rh(ISTD) [No Gas]

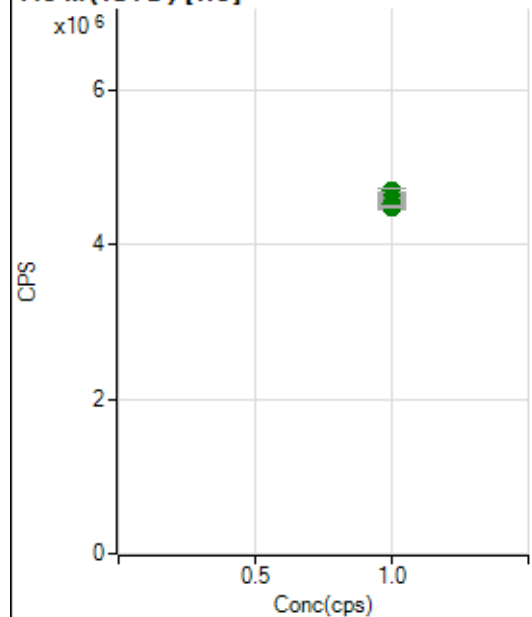
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14509481.03		A	1.1
2	☐	1.000		14613674.65		A	0.2
3	☐	1.000		14456436.45		A	0.8
4	☐	1.000		14148398.82		A	1.1
5	☐	1.000		13979142.57		A	0.8
6	☐	1.000		13830682.29		A	0.2
7	☐	1.000		13445633.96		A	2.4
8	☐	1.000		12169673.98		A	1.0

103 Rh (ISTD) [He]

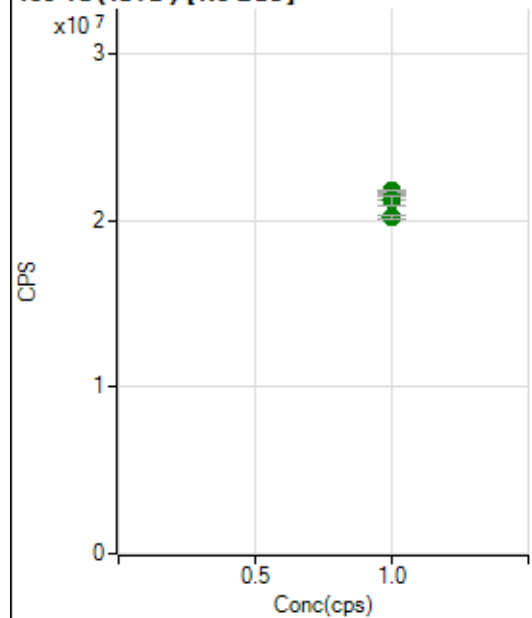
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7732952.87		A	0.6
2	☐	1.000		7869306.69		A	0.7
3	☐	1.000		7675142.11		A	1.0
4	☐	1.000		7480404.20		A	0.4
5	☐	1.000		7515149.05		A	0.1
6	☐	1.000		7378134.33		A	0.6
7	☐	1.000		7434342.67		A	0.8
8	☐	1.000		6584112.12		A	0.8

115 In (ISTD) [No Gas]

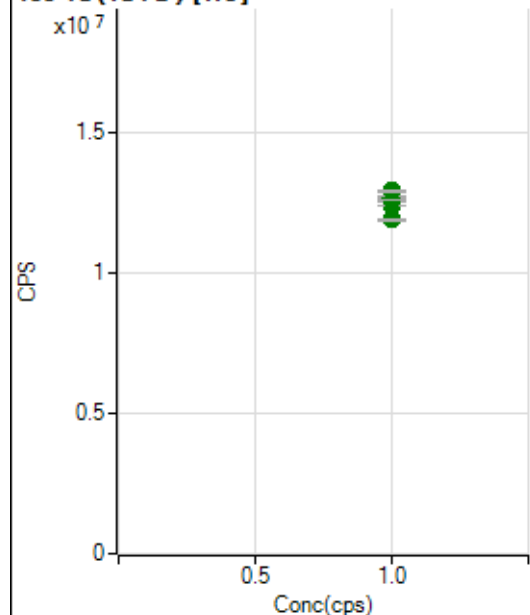
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15544860.01		A	0.3
2	☐	1.000		15615181.43		A	0.7
3	☐	1.000		15593812.37		A	0.9
4	☐	1.000		15343625.31		A	0.5
5	☐	1.000		15122216.27		A	0.1
6	☐	1.000		15188345.12		A	0.6
7	☐	1.000		14620316.57		A	2.6
8	☐	1.000		14531735.47		A	1.0

115 In (ISTD) [He]

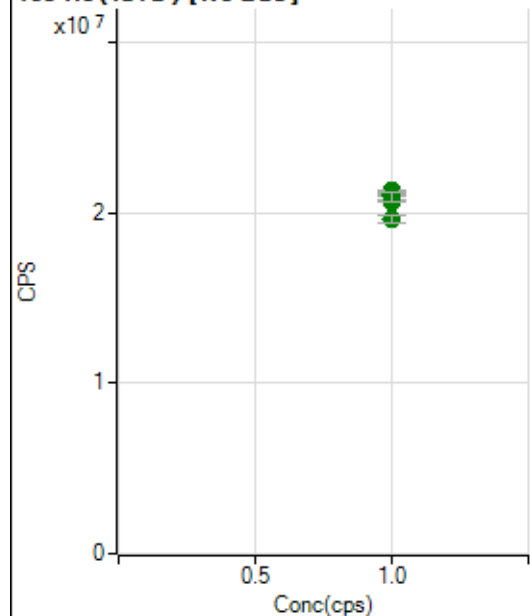
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4640034.79		A	0.6
2	☐	1.000		4689263.14		A	1.2
3	☐	1.000		4587692.00		A	0.5
4	☐	1.000		4518384.84		A	0.3
5	☐	1.000		4519428.76		A	1.5
6	☐	1.000		4500748.21		A	0.4
7	☐	1.000		4466177.77		A	0.7
8	☐	1.000		4478435.59		A	0.7

159 Tb (ISTD) [No Gas]

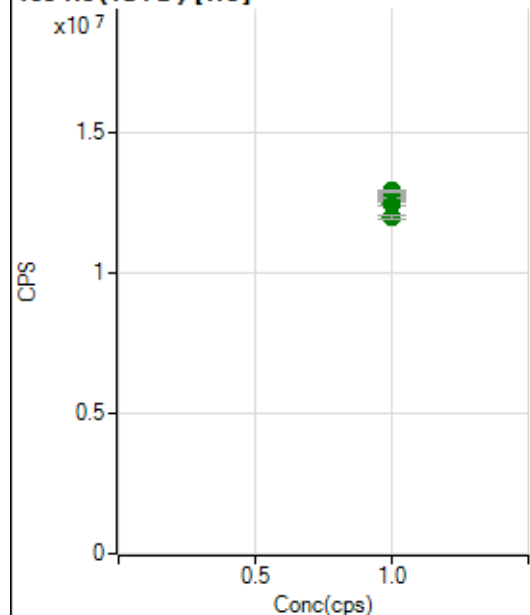
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		21242538.99		A	0.4
2	☐	1.000		21584330.23		A	0.8
3	☐	1.000		21689813.29		A	0.5
4	☐	1.000		21663262.73		A	0.6
5	☐	1.000		21788649.12		A	0.6
6	☐	1.000		21773589.95		A	0.8
7	☐	1.000		21212820.93		A	2.5
8	☐	1.000		20207544.28		A	1.6

159 Tb (ISTD) [He]

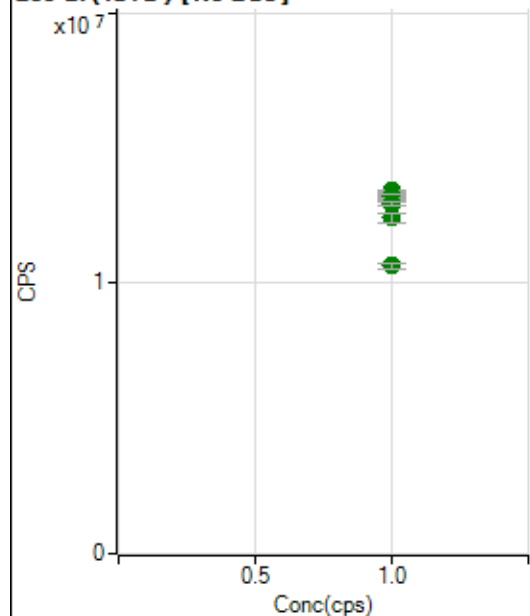
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12422524.95		A	0.2
2	☐	1.000		12650884.67		A	1.0
3	☐	1.000		12598672.31		A	0.9
4	☐	1.000		12586598.42		A	0.8
5	☐	1.000		12631769.67		A	0.6
6	☐	1.000		12678774.68		A	1.1
7	☐	1.000		12930167.59		A	0.5
8	☐	1.000		11896931.77		A	0.6

165 Ho (ISTD) [No Gas]

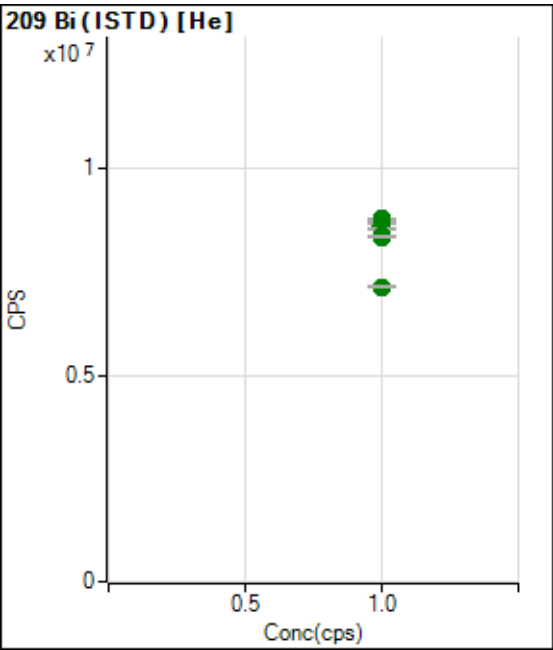
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20616570.67		A	0.3
2	☐	1.000		20927780.24		A	1.4
3	☐	1.000		21112221.63		A	1.0
4	☐	1.000		21268016.77		A	0.7
5	☐	1.000		21198697.46		A	0.1
6	☐	1.000		21277058.85		A	0.8
7	☐	1.000		20927030.94		A	2.9
8	☐	1.000		19602857.63		A	2.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12438613.70		A	1.1
2	☐	1.000		12567988.01		A	0.6
3	☐	1.000		12511561.48		A	0.2
4	☐	1.000		12603121.06		A	0.5
5	☐	1.000		12742147.45		A	0.7
6	☐	1.000		12647766.76		A	0.3
7	☐	1.000		12907715.92		A	0.5
8	☐	1.000		11953473.15		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13059300.78		A	0.9
2	☐	1.000		13178318.00		A	1.3
3	☐	1.000		13422754.66		A	0.4
4	☐	1.000		13266040.36		A	1.3
5	☐	1.000		13232151.47		A	0.7
6	☐	1.000		12944481.06		A	0.8
7	☐	1.000		12417757.18		A	2.5
8	☐	1.000		10638969.43		A	2.0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8603202.02		A	1.5
2	☐	1.000		8794089.73		A	0.5
3	☐	1.000		8701767.58		A	0.8
4	☐	1.000		8615938.90		A	1.0
5	☐	1.000		8558900.15		A	0.7
6	☐	1.000		8383350.99		A	0.4
7	☐	1.000		8366701.33		A	0.4
8	☐	1.000		7150676.91		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7031224-MS.b

Acq. Date-Time 2024-03-12 08:44:13

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		26610	266097.96			0.490	5.000
24		230718	2307179.52			0.358	5.000
25		31258	312581.02			0.556	5.000
26		37177	371773.33			0.333	5.000
59		197371	1973709.44			0.888	5.000
113		24898	248975.92			0.452	5.000
115		302607	3026071.99			0.285	5.000
206		73556	735556.98			0.605	5.000
207		67035	670354.36			0.779	5.000
208		171067	1710665.60			0.903	5.000
220		1	5.70			31.991	

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

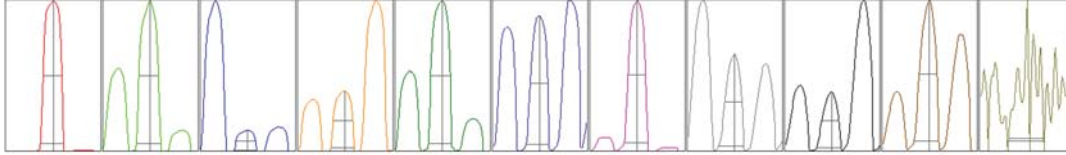
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	26754	26748	26489	26520	26537
24	229936	229868	231709	230718	231360
25	31015	31163	31274	31418	31421
26	37157	37378	37162	37035	37154
59	198289	199933	195894	195778	196961
113	25044	24987	24781	24823	24853
115	302628	301856	303743	301686	303122
206	74103	73702	73612	73485	72875
207	67252	67623	67252	66781	66270
208	172067	173177	170322	170491	169276

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	46896.17	9.05	8.90 - 9.10	
24	401063.27	24.00	23.90 - 24.10	
25	53888.75	25.00	24.90 - 25.10	
26	62813.19	26.00	25.90 - 26.10	
59	335497.27	59.00	58.90 - 59.10	
113	46675.31	113.00	112.90 - 113.10	
115	567307.88	115.00	114.90 - 115.10	
206	138419.34	206.00	205.90 - 206.10	
207	125126.15	207.00	206.90 - 207.10	
208	315718.85	208.00	207.90 - 208.10	
220	0.00	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.723	0.900	
24	0.61	0.778	0.900	
25	0.61	0.704	0.900	
26	0.62	0.739	0.900	
59	0.61	0.739	0.900	
113	0.54	0.725	0.900	
115	0.54	0.760	0.900	
206	0.54	0.787	0.900	
207	0.53	0.774	0.900	
208	0.55	0.782	0.900	
220	1.12	1.114		

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	7.8 V	Deflect	14.2 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-85 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	200 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	1.0 mm
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EM

Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1352 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		56800	568004.19			0.424	
89		74279	742790.14			0.598	
205		65983	659825.25			0.565	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	57132	56779	56571	56943	56578
89	74930	73944	74063	74547	73911
205	66384	66014	65492	66287	65735

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	8.4 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-160.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	131	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	1.0 mm
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EM

Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1352 V
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