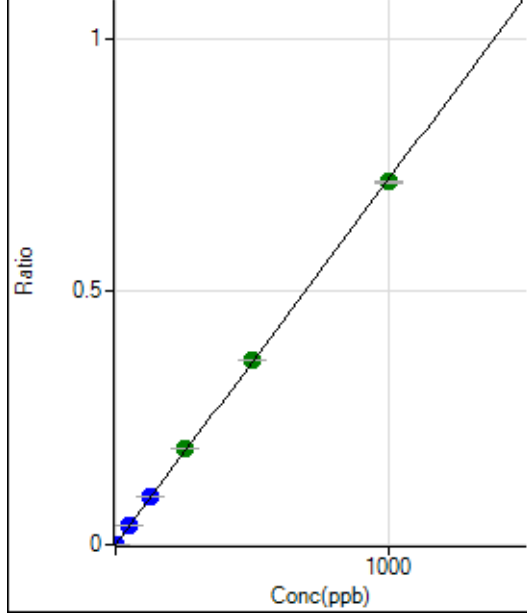


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011725MS-3.b\
Analysis File: P8011725MS-3.batch.bin
DA Date-Time: 2025-01-19 22:37:02
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-17 12:32:13
2	006CALS.d	S02	2025-01-17 12:38:57
3	007CALB.d	S03	2025-01-17 12:42:17
4	008CALS.d	S04	2025-01-17 12:45:23
5	009CALS.d	S05	2025-01-17 12:48:21
6	010CALS.d	S06	2025-01-17 12:51:12
7	011CALS.d	S07	2025-01-17 12:53:57
8	012CALS.d	S08	2025-01-17 12:56:45

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	285.80	0.0000	P	11.5
2	☐	1.000	1.077	7094.16	0.0008	P	0.5
3	☐	50.000	52.498	330093.35	0.0379	P	0.5
4	☐	125.000	132.493	812906.23	0.0957	P	0.1
5	☐	250.000	262.759	1599928.14	0.1897	A	1.3
6	☐	500.000	505.232	3084256.25	0.3647	A	0.7
7	☐	1000.000	993.133	5964181.88	0.7169	A	0.2
8	☐			1518.65	0.0002	P	13.8

$$y = 7.2183\text{E-}004 * x + 3.2674\text{E-}005$$

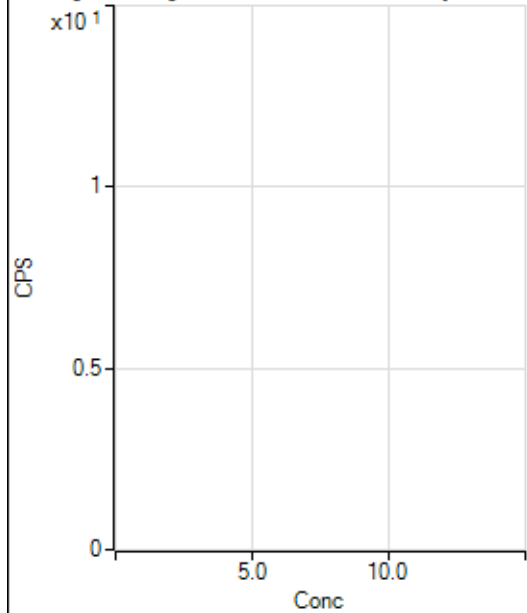
$$R = 0.9999$$

$$DL = 0.01564$$

$$BEC = 0.04527$$

Weight: <None>

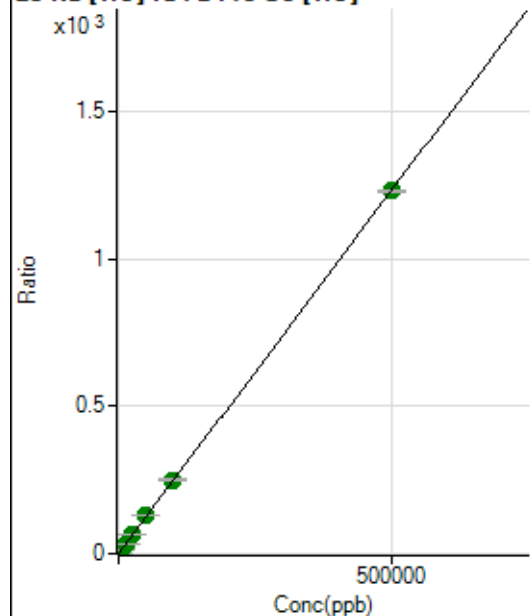
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			3138450.58		A	0.9
2	☐			3258550.85		A	1.4
3	☐			3281253.25		A	1.9
4	☐			3469245.96		A	1.1
5	☐			3581458.45		A	0.2
6	☐			3912297.79		A	0.8
7	☐			4631002.33		A	3.3
8	☐			6132966.96		A	12.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22095.57		P	0.9
2	☐			23072.62		P	0.8
3	☐			23311.84		P	2.1
4	☐			24980.18		P	0.7
5	☐			26017.53		P	1.7
6	☐			29209.02		P	1.8
7	☐			36400.49		P	1.2
8	☐			60038.48		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17576.19	0.0931	P	0.4
2	☐	500.000	555.915	284821.74	1.4653	P	3.4
3	☐	5000.000	5465.787	2582563.50	13.5845	A	1.1
4	☐	12500.000	13592.987	6419940.60	33.6451	A	1.1
5	☐	25000.000	26717.986	12786735.64	66.0419	A	0.1
6	☐	50000.000	52398.262	25110492.68	129.4292	A	0.8
7	☐	100000.00	101368.50	49988517.03	250.3039	A	1.5
8	☐	500000.00	499368.53	213020725.7	1,232.698	A	0.8

$$y = 0.0025 * x + 0.0931$$

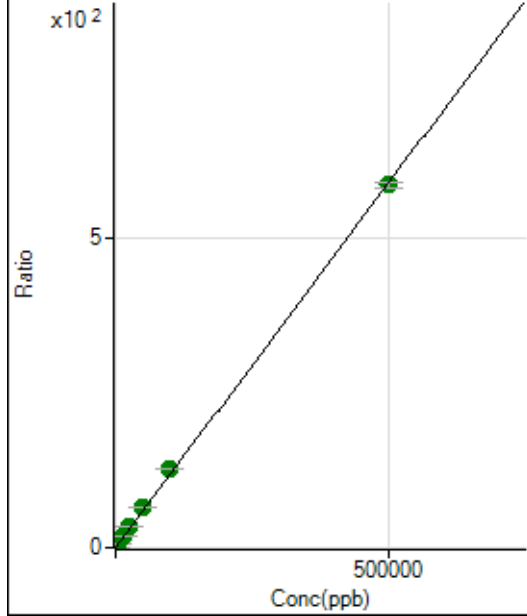
$$R = 1.0000$$

$$DL = 0.4039$$

$$BEC = 37.73$$

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	668.91	0.0035	P	8.2
2	☐	500.000	608.205	139908.91	0.7197	P	3.1
3	☐	5000.000	5960.270	1334980.71	7.0222	A	1.5
4	☐	12500.000	14937.083	3356940.99	17.5930	A	1.4
5	☐	25000.000	28522.162	6503480.11	33.5904	A	0.7
6	☐	50000.000	56154.533	12829425.92	66.1295	A	1.3
7	☐	100000.00	108249.47	25459448.23	127.4751	A	0.8
8	☐	500000.00	497487.90	101229815.1	585.8313	A	1.6

$$y = 0.0012 * x + 0.0035$$

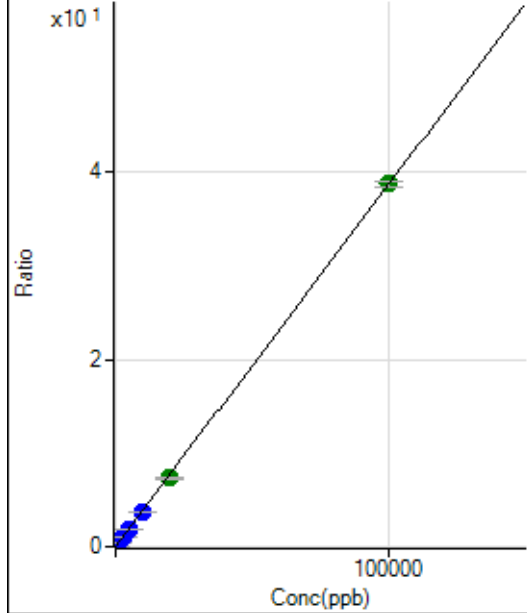
$$R = 0.9998$$

$$DL = 0.7417$$

$$BEC = 3.01$$

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	134.45	0.0007	P	21.1
2	☐	20.000	19.091	1573.44	0.0081	P	7.0
3	☐	1000.000	1019.578	75138.15	0.3952	P	0.4
4	☐	2500.000	2553.981	188714.61	0.9890	P	0.2
5	☐	5000.000	4971.954	372635.71	1.9246	P	0.3
6	☐	10000.000	9730.974	730672.98	3.7661	P	0.2
7	☐	20000.000	19097.933	1475891.38	7.3907	A	2.6
8	☐	100000.00	100207.17	6700499.83	38.7760	A	1.4

$$y = 3.8695E-004 * x + 7.1262E-004$$

$$R = 1.0000$$

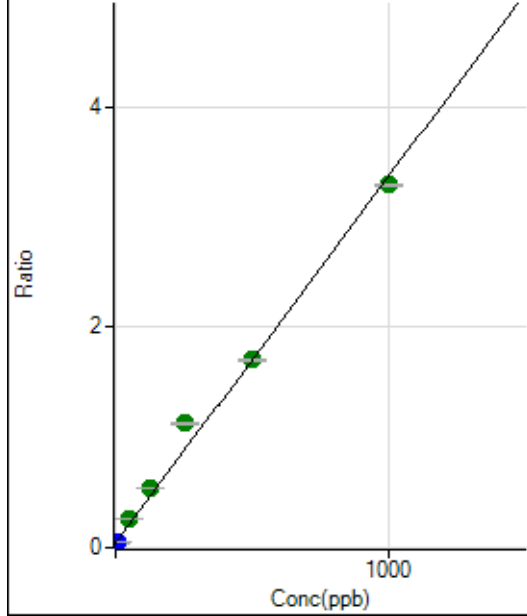
$$DL = 1.165$$

$$BEC = 1.842$$

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	429987.17	0.0417	P	0.7
2	☐	10.000	2.599	519505.15	0.0504	P	1.5
3	☐	50.000	65.978	2716584.58	0.2614	A	2.9
4	☐	125.000	149.391	5571412.97	0.5391	A	1.4
5	☐	250.000	325.899	11829046.21	1.1267	A	0.7
6	☐	500.000	499.841	18075809.45	1.7058	A	0.9
7	☐	1000.000	977.331	34620937.82	3.2954	A	0.3
8	☐			566649.63	0.0629	P	0.9

$$y = 0.0033 * x + 0.0417$$

$$R = 0.9964$$

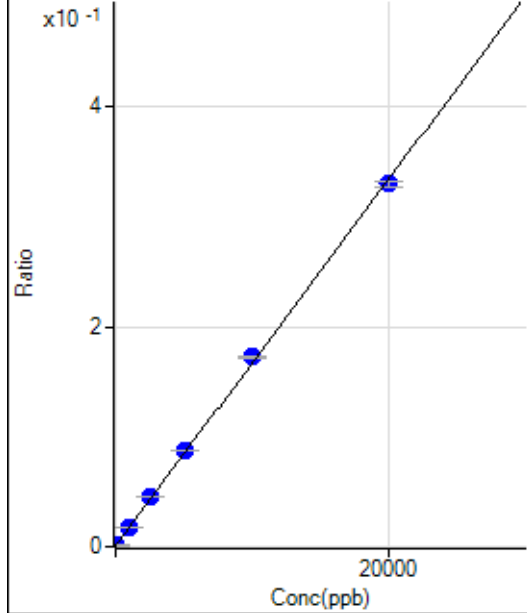
$$DL = 0.2706$$

$$BEC = 12.53$$

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	-18.994	47.78	0.0003	P	10.1
2	☐	0.000	18.994	172.22	0.0009	P	6.7
3	☐	1000.000	1041.184	3409.32	0.0179	P	2.8
4	☐	2500.000	2685.598	8654.87	0.0454	P	1.1
5	☐	5000.000	5233.326	17008.95	0.0878	P	1.1
6	☐	10000.000	10304.870	33451.88	0.1724	P	0.5
7	☐	20000.000	19763.975	65939.88	0.3302	P	1.2
8	☐			104.45	0.0006	P	19.3

$$y = 1.6677E-005 * x + 5.6980E-004$$

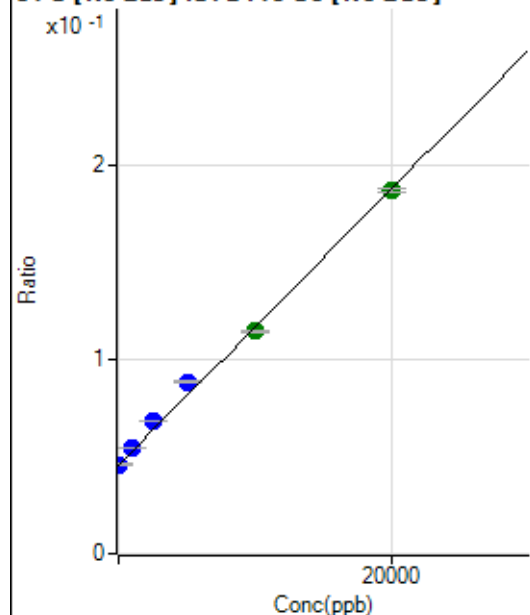
$$R = 0.9997$$

$$DL = 7.657$$

$$BEC = 34.17$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-15.706	470322.16	0.0456	P	0.3
2	☐	0.000	15.706	472928.73	0.0459	P	1.3
3	☐	1000.000	1227.542	566310.44	0.0545	P	1.7
4	☐	2500.000	3162.289	705452.00	0.0683	P	0.6
5	☐	5000.000	6007.230	929219.57	0.0885	P	0.5
6	☐	10000.000	9654.249	1212995.63	0.1145	A	0.8
7	☐	20000.000	19826.905	1963377.07	0.1869	A	0.9
8	☐			333091.52	0.0370	P	1.6

$$y = 7.1190\text{E-}006 * x + 0.0457$$

R = 0.9980

DL = 155.9

BEC = 6425

Weight: <None>

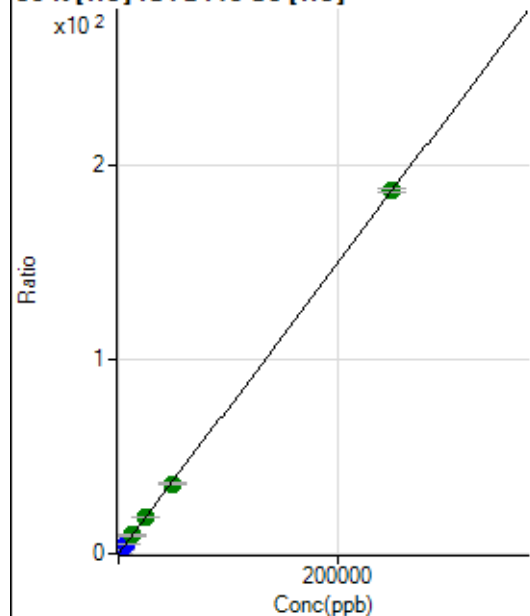
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			68611.36		P	1.1
2	☐			69505.58		P	1.3
3	☐			67998.63		P	1.5
4	☐			72772.66		P	0.8
5	☐			75040.73		P	1.8
6	☐			86924.38		P	1.3
7	☐			111580.15		P	1.8
8	☐			62402.48		P	0.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			283.34		P	8.5
2	☐			268.89		P	2.6
3	☐			261.12		P	21.1
4	☐			277.78		P	6.2
5	☐			290.01		P	18.1
6	☐			377.79		P	7.9
7	☐			493.35		P	12.5
8	☐			281.12		P	9.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6963.96	0.0369	P	2.5
2	☐	500.000	510.373	81079.18	0.4171	P	2.6
3	☐	2500.000	2532.486	365637.20	1.9233	P	0.6
4	☐	6250.000	6385.029	914566.43	4.7930	P	0.9
5	☐	12500.000	12619.960	1827119.92	9.4373	A	1.7
6	☐	25000.000	25232.062	3653616.61	18.8318	A	0.7
7	☐	50000.000	48212.703	7179484.34	35.9497	A	1.7
8	☐	250000.00	250324.53	32227536.74	186.4994	A	1.2

$$y = 7.4488\text{E-}004 * x + 0.0369$$

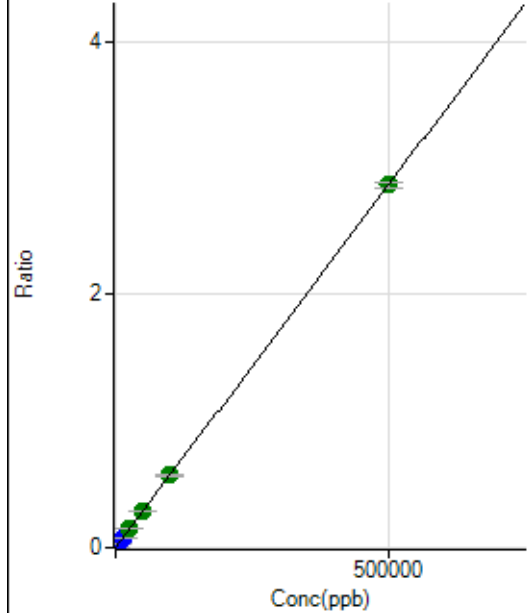
$$R = 1.0000$$

$$DL = 3.681$$

$$BEC = 49.53$$

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	452.23	0.0000	P	15.1
2	☐	500.000	546.832	32767.30	0.0032	P	0.9
3	☐	5000.000	5120.312	305404.27	0.0294	P	1.6
4	☐	12500.000	12922.725	765665.76	0.0741	P	1.5
5	☐	25000.000	25786.596	1551560.71	0.1478	A	1.4
6	☐	50000.000	50046.563	3038999.12	0.2868	A	0.6
7	☐	100000.00	99670.893	5999724.36	0.5711	A	0.9
8	☐	500000.00	500010.01	25796106.01	2.8648	A	1.8

$$y = 5.7294\text{E-}006 * x + 4.3878\text{E-}005$$

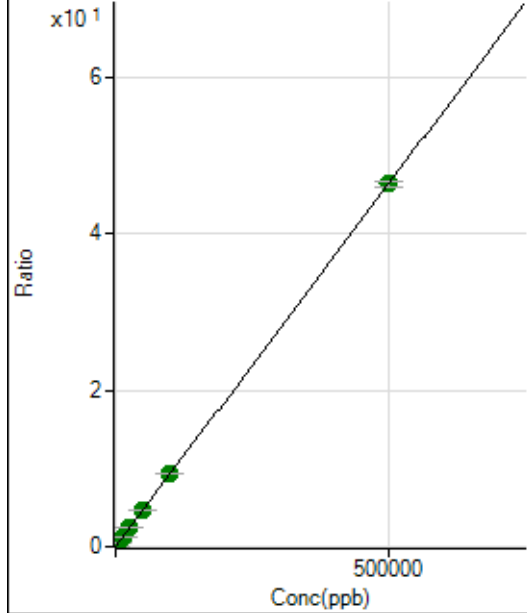
$$R = 1.0000$$

$$DL = 3.479$$

$$BEC = 7.658$$

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	8999.55	0.0009	P	3.7
2	☐	500.000	540.443	525685.19	0.0510	P	1.0
3	☐	5000.000	5109.039	4931436.07	0.4744	A	1.9
4	☐	12500.000	12891.746	12359962.45	1.1958	A	0.4
5	☐	25000.000	25458.438	24784257.96	2.3606	A	0.3
6	☐	50000.000	49834.518	48955426.49	4.6201	A	1.3
7	☐	100000.00	99546.319	96946901.89	9.2279	A	0.1
8	☐	500000.00	500073.43	417390380.4	46.3530	A	1.7

$$y = 9.2691\text{E-}005 * x + 8.7314\text{E-}004$$

$$R = 1.0000$$

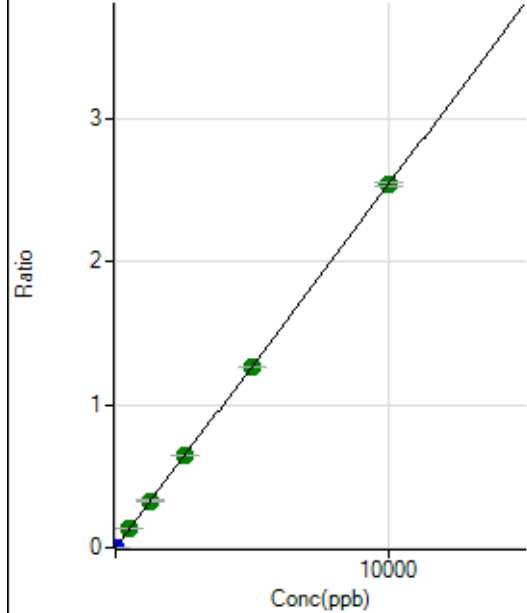
$$DL = 1.042$$

$$BEC = 9.42$$

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	171.11	0.0000	P	7.2
2	☐	5.000	5.358	14204.89	0.0014	P	2.2
3	☐	500.000	519.470	1371348.10	0.1319	A	2.3
4	☐	1250.000	1296.845	3403990.85	0.3294	A	1.3
5	☐	2500.000	2525.258	6733044.62	0.6413	A	0.7
6	☐	5000.000	4992.540	13435767.99	1.2679	A	0.3
7	☐	10000.000	9990.586	26654489.60	2.5372	A	1.1
8	☐			10308.24	0.0011	P	5.1

$$y = 2.5395E-004 * x + 1.6600E-005$$

$$R = 1.0000$$

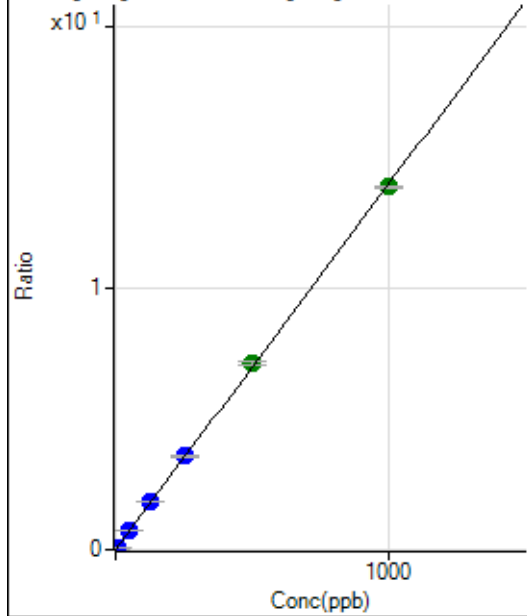
$$DL = 0.01422$$

$$BEC = 0.06537$$

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	5.55	0.0000	P	69.6
2	☐	5.000	5.189	14097.03	0.0725	P	3.6
3	☐	50.000	51.509	136820.91	0.7197	P	0.1
4	☐	125.000	129.633	345607.59	1.8112	P	0.7
5	☐	250.000	255.380	690830.32	3.5681	P	0.6
6	☐	500.000	510.041	1382563.92	7.1261	A	2.4
7	☐	1000.000	992.979	2770942.14	13.8736	A	0.5
8	☐			451.12	0.0026	P	7.2

$$y = 0.0140 * x + 2.9457E-005$$

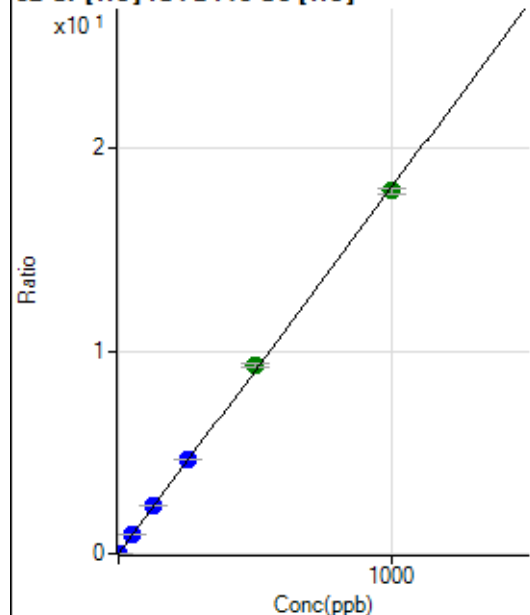
$$R = 0.9999$$

$$DL = 0.004403$$

$$BEC = 0.002108$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	533.35	0.0028	P	8.6
2	☐	2.000	2.055	7771.05	0.0400	P	2.4
3	☐	50.000	52.138	179682.97	0.9452	P	0.3
4	☐	125.000	130.580	450882.29	2.3629	P	0.3
5	☐	250.000	255.723	895393.01	4.6247	P	0.9
6	☐	500.000	514.819	1805768.86	9.3076	A	1.5
7	☐	1000.000	990.355	3575414.25	17.9024	A	1.3
8	☐			7471.35	0.0433	P	5.9

$$y = 0.0181 * x + 0.0028$$

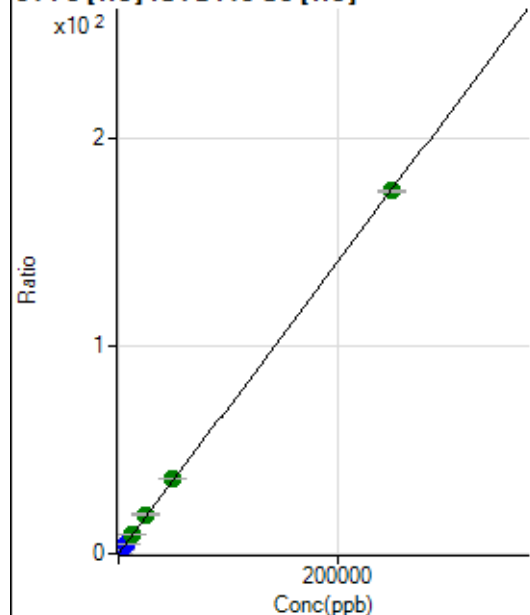
$$R = 0.9998$$

$$DL = 0.04042$$

$$BEC = 0.1563$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.34	0.0013	P	15.3
2	☐	50.000	59.809	8418.11	0.0433	P	2.8
3	☐	2500.000	2790.492	372451.93	1.9592	P	0.2
4	☐	6250.000	7017.530	939719.74	4.9249	P	1.1
5	☐	12500.000	13770.959	1870837.75	9.6631	A	1.4
6	☐	25000.000	27054.175	3682783.66	18.9826	A	0.6
7	☐	50000.000	51553.482	7224265.31	36.1714	A	0.7
8	☐	250000.00	249398.24	30238036.77	174.9797	A	0.7

$$y = 7.0160E-004 * x + 0.0013$$

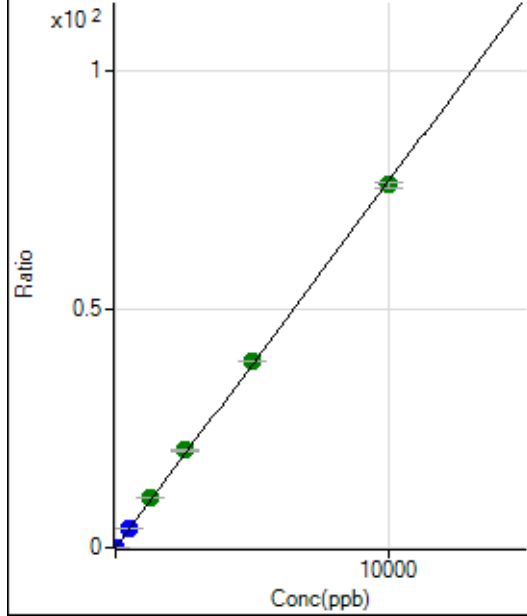
$$R = 1.0000$$

$$DL = 0.8792$$

$$BEC = 1.912$$

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	66.67	0.0004	P	18.3
2	☐	1.000	1.088	1691.23	0.0087	P	6.4
3	☐	500.000	525.753	767617.06	4.0378	P	0.3
4	☐	1250.000	1364.496	1999515.39	10.4787	A	0.4
5	☐	2500.000	2651.916	3942775.15	20.3652	A	1.8
6	☐	5000.000	5078.382	7566194.19	38.9988	A	0.2
7	☐	10000.000	9907.230	15194372.13	76.0810	A	1.6
8	☐			4944.37	0.0286	P	5.8

$$y = 0.0077 * x + 3.5330E-004$$

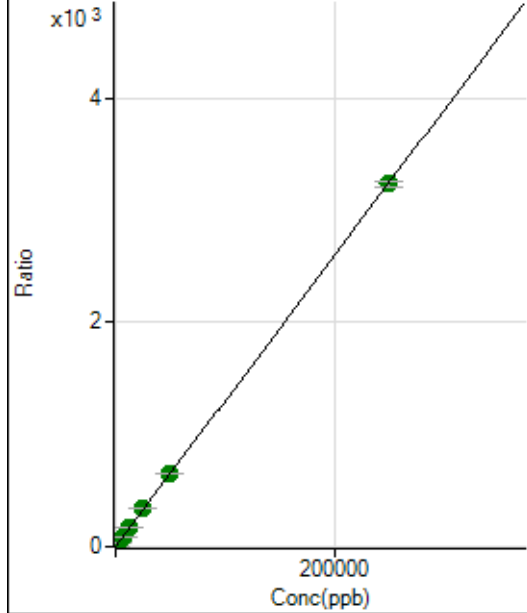
$$R = 0.9998$$

$$DL = 0.02522$$

$$BEC = 0.04601$$

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	3242.63	0.0172	P	7.2
2	☐	50.000	57.348	147884.64	0.7609	P	3.8
3	☐	2500.000	2755.896	6797332.95	35.7546	A	0.8
4	☐	6250.000	6903.192	17084053.22	89.5351	A	1.7
5	☐	12500.000	13601.728	34153088.38	176.3991	A	0.5
6	☐	25000.000	26394.147	66406351.23	342.2863	A	0.5
7	☐	50000.000	50440.522	130629566.9	654.1104	A	1.8
8	☐	250000.00	249698.50	559525831.6	3.238010	A	1.4

$$y = 0.0130 * x + 0.0172$$

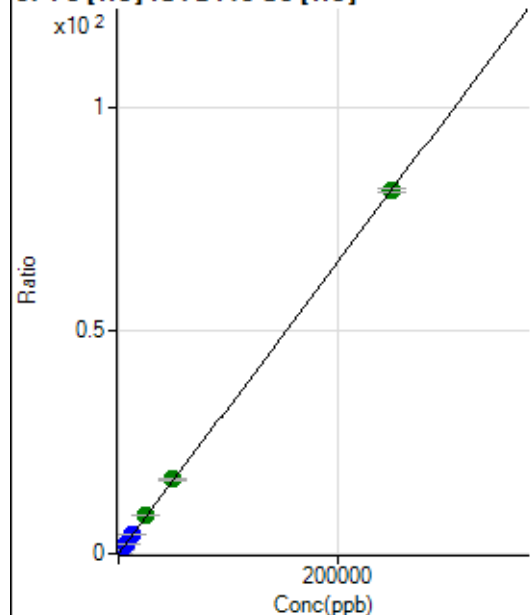
$$R = 1.0000$$

$$DL = 0.2871$$

$$BEC = 1.325$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	83.33	0.0004	P	10.4
2	☐	50.000	56.188	3648.28	0.0188	P	4.0
3	☐	2500.000	2732.642	169545.91	0.8918	P	0.1
4	☐	6250.000	6803.310	423547.85	2.2197	P	1.0
5	☐	12500.000	13387.928	845626.62	4.3676	P	0.6
6	☐	25000.000	26666.519	1687710.24	8.6992	A	1.1
7	☐	50000.000	51072.127	3327396.37	16.6604	A	1.0
8	☐	250000.00	249558.36	14067407.85	81.4073	A	1.2

$$y = 3.2620\text{E-}004 * x + 4.4145\text{E-}004$$

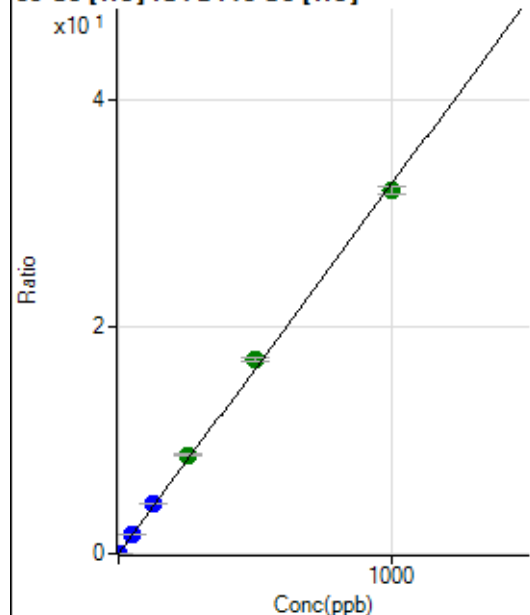
$$R = 1.0000$$

$$DL = 0.4221$$

$$BEC = 1.353$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	96.67	0.0005	P	12.9
2	☐	1.000	1.122	7217.45	0.0371	P	3.3
3	☐	50.000	54.368	337456.32	1.7751	P	0.1
4	☐	125.000	136.254	848700.63	4.4478	P	1.0
5	☐	250.000	266.567	1684618.15	8.7012	A	1.3
6	☐	500.000	525.036	3324821.76	17.1376	A	1.3
7	☐	1000.000	981.715	6399170.05	32.0435	A	2.1
8	☐			12060.77	0.0698	P	2.0

$$y = 0.0326 * x + 5.1236\text{E-}004$$

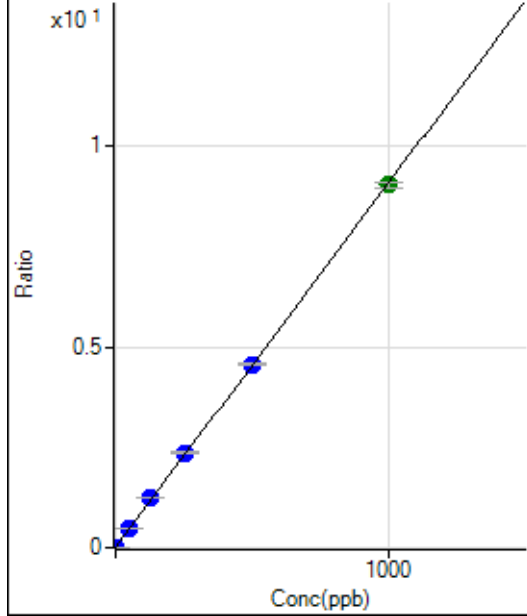
$$R = 0.9993$$

$$DL = 0.006069$$

$$BEC = 0.0157$$

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	1225.62	0.0065	P	6.1
2	☐	1.000	1.082	3169.28	0.0163	P	5.7
3	☐	50.000	54.154	94653.97	0.4979	P	0.7
4	☐	125.000	134.566	234238.97	1.2276	P	0.9
5	☐	250.000	260.436	458801.49	2.3697	P	1.1
6	☐	500.000	502.320	885571.53	4.5646	P	1.0
7	☐	1000.000	994.827	1804120.56	9.0338	A	1.6
8	☐			7261.91	0.0420	P	2.5

$$y = 0.0091 * x + 0.0065$$

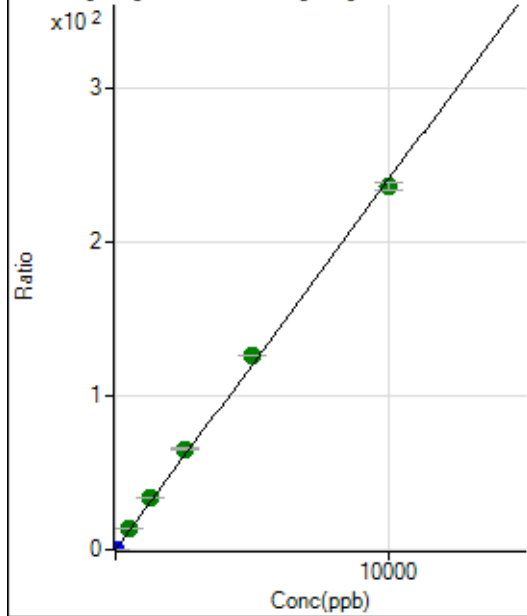
$$R = 0.9999$$

$$DL = 0.1304$$

$$BEC = 0.7157$$

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	4436.29	0.0235	P	3.0
2	☐	2.000	2.280	15213.81	0.0783	P	3.4
3	☐	500.000	566.410	2591381.16	13.6311	A	0.5
4	☐	1250.000	1400.344	6423928.52	33.6658	A	0.7
5	☐	2500.000	2719.341	12653070.79	65.3538	A	1.2
6	☐	5000.000	5236.396	24411073.80	125.8244	A	0.3
7	☐	10000.000	9804.853	47045869.30	235.5785	A	2.0
8	☐			12263.16	0.0710	P	4.3

$$y = 0.0240 * x + 0.0235$$

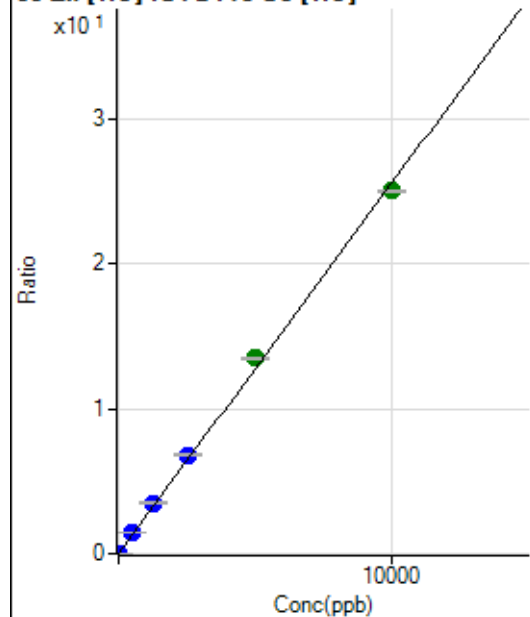
$$R = 0.9993$$

$$DL = 0.08733$$

$$BEC = 0.9784$$

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	330.01	0.0017	P	9.1
2	☐	5.000	5.463	3050.36	0.0157	P	5.8
3	☐	500.000	547.950	266397.48	1.4013	P	0.2
4	☐	1250.000	1372.881	669423.81	3.5083	P	1.1
5	☐	2500.000	2671.053	1321216.01	6.8240	P	0.6
6	☐	5000.000	5280.452	2617009.44	13.4888	A	0.9
7	☐	10000.000	9799.253	4999190.14	25.0306	A	0.7
8	☐			6340.36	0.0367	P	1.0

$$y = 0.0026 * x + 0.0017$$

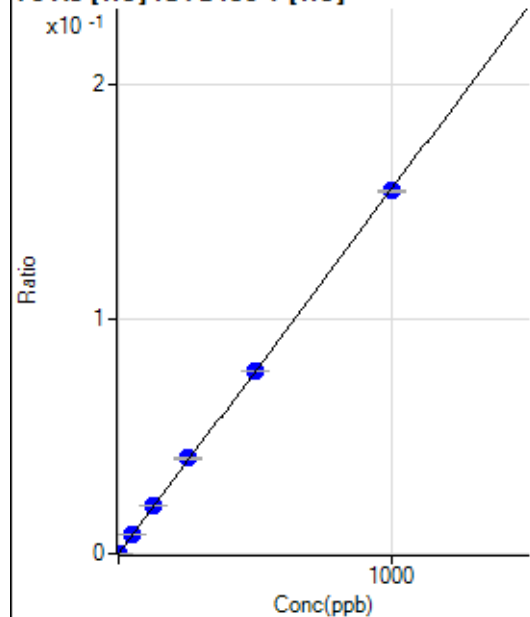
$$R = 0.9992$$

$$DL = 0.1875$$

$$BEC = 0.6843$$

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	2.22	0.0000	P	173.
2	☐	1.000	1.009	296.68	0.0002	P	4.5
3	☐	50.000	51.734	14836.81	0.0080	P	2.5
4	☐	125.000	133.808	38524.74	0.0208	P	0.9
5	☐	250.000	262.018	76577.60	0.0407	P	1.7
6	☐	500.000	501.047	149712.05	0.0779	P	0.5
7	☐	1000.000	995.284	297302.39	0.1548	P	0.4
8	☐			147.78	0.0001	P	19.8

$$y = 1.5550E-004 * x + 1.2260E-006$$

$$R = 0.9999$$

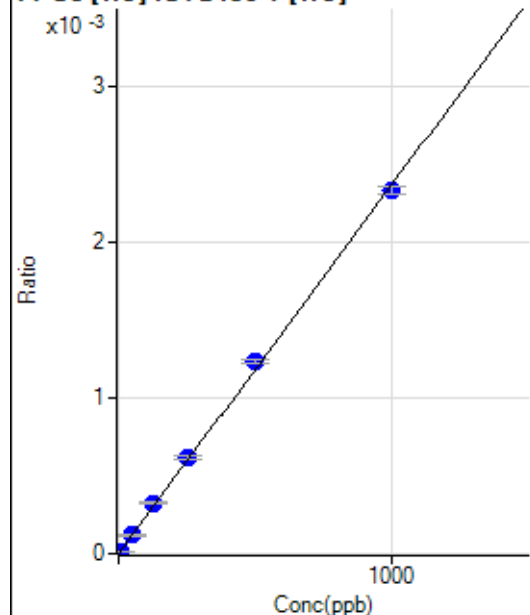
$$DL = 0.04097$$

$$BEC = 0.007884$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.507	28.89	0.0000	P	16.1
3	☐	50.000	51.560	224.45	0.0001	P	9.0
4	☐	125.000	137.036	598.91	0.0003	P	5.3
5	☐	250.000	261.354	1160.06	0.0006	P	2.7
6	☐	500.000	521.956	2368.01	0.0012	P	2.8
7	☐	1000.000	984.594	4465.19	0.0023	P	2.2
8	☐			4.45	0.0000	P	86.6

$$y = 2.3612\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

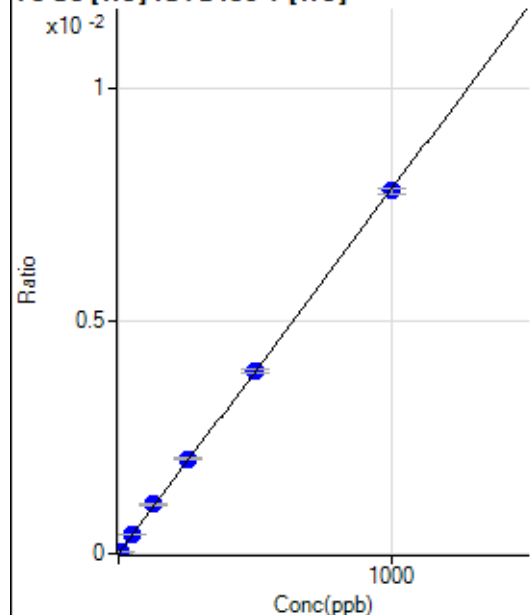
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.44	0.0000	P	115.
2	☐	5.000	6.184	95.55	0.0001	P	4.6
3	☐	50.000	53.164	773.37	0.0004	P	4.5
4	☐	125.000	136.318	1983.49	0.0011	P	3.3
5	☐	250.000	259.317	3826.12	0.0020	P	2.7
6	☐	500.000	501.272	7558.78	0.0039	P	2.1
7	☐	1000.000	995.456	15000.33	0.0078	P	1.4
8	☐			11.11	0.0000	P	62.0

$$y = 7.8421\text{E-}006 * x + 2.4433\text{E-}006$$

$$R = 0.9999$$

$$DL = 1.075$$

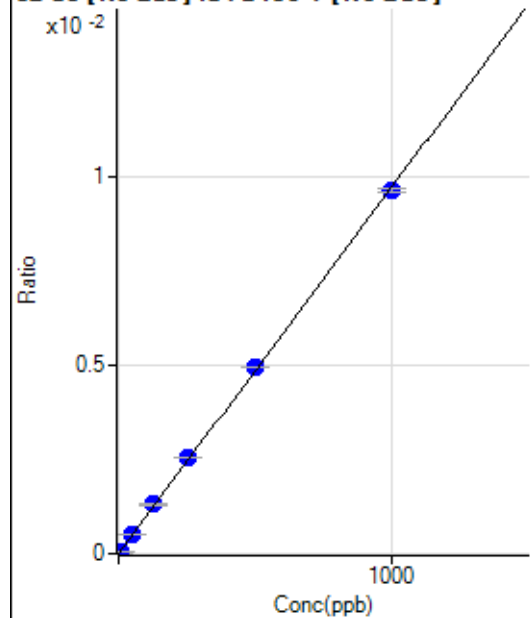
$$BEC = 0.3116$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6713.89		P	4.0
2	☐			6871.76		P	0.2
3	☐			7047.39		P	2.5
4	☐			7241.93		P	2.9
5	☐			7647.71		P	1.7
6	☐			7808.92		P	2.0
7	☐			7977.90		P	2.3
8	☐			8232.50		P	0.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.77	0.0000	P	161.
2	☐	5.000	5.321	1403.43	0.0001	P	1.5
3	☐	50.000	53.516	13997.28	0.0005	P	1.7
4	☐	125.000	134.532	34898.36	0.0013	P	1.4
5	☐	250.000	262.173	69551.22	0.0026	P	0.5
6	☐	500.000	509.453	134555.03	0.0050	P	0.7
7	☐	1000.000	990.861	265731.33	0.0096	P	1.1
8	☐			8.89	0.0000	P	426.

$$y = 9.7273E-006 * x + 1.0455E-006$$

$$R = 0.9998$$

$$DL = 0.52$$

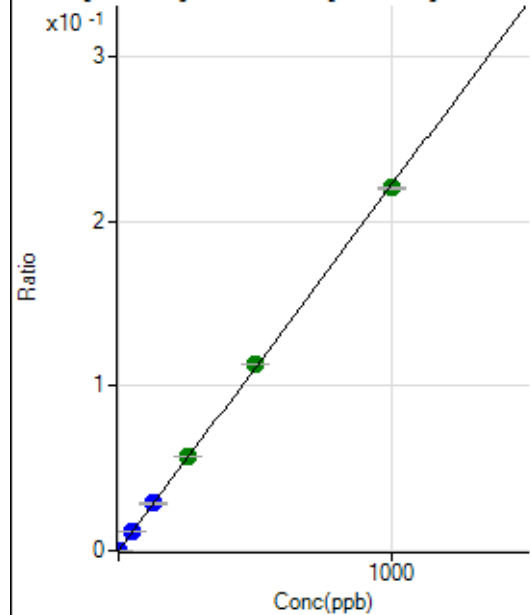
$$BEC = 0.1075$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			181.12		P	3.8
2	☐			188.89		P	12.8
3	☐			224.45		P	11.3
4	☐			224.45		P	15.5
5	☐			195.56		P	6.5
6	☐			267.78		P	14.3
7	☐			292.23		P	16.6
8	☐			404.45		P	7.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	373.34	0.0000	P	14.9
2	☐	1.000	1.010	6329.28	0.0002	P	2.6
3	☐	50.000	50.838	303100.89	0.0113	P	1.4
4	☐	125.000	129.078	763740.91	0.0287	P	0.5
5	☐	250.000	259.167	1568342.39	0.0575	A	0.6
6	☐	500.000	509.802	3071584.54	0.1131	A	0.8
7	☐	1000.000	992.256	6070754.07	0.2202	A	0.8
8	☐			14547.68	0.0006	P	1.9

$$y = 2.2192\text{E-}004 * x + 1.4088\text{E-}005$$

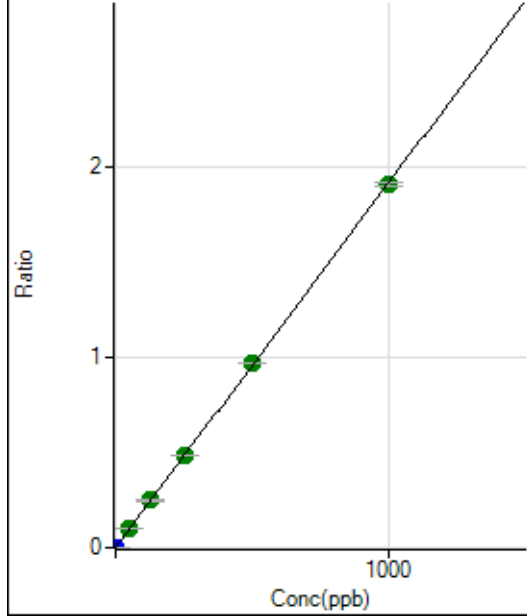
$$R = 0.9999$$

$$DL = 0.02832$$

$$BEC = 0.06348$$

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	262.23	0.0000	P	13.7
2	☐	1.000	1.016	51859.10	0.0020	P	0.9
3	☐	50.000	51.812	2657016.76	0.0990	A	1.3
4	☐	125.000	129.761	6608120.74	0.2480	A	0.9
5	☐	250.000	252.660	13162869.11	0.4828	A	0.9
6	☐	500.000	507.548	26329759.60	0.9699	A	0.2
7	☐	1000.000	994.875	52410720.89	1.9012	A	1.1
8	☐			125702.84	0.0053	P	1.4

$$y = 0.0019 * x + 9.8874E-006$$

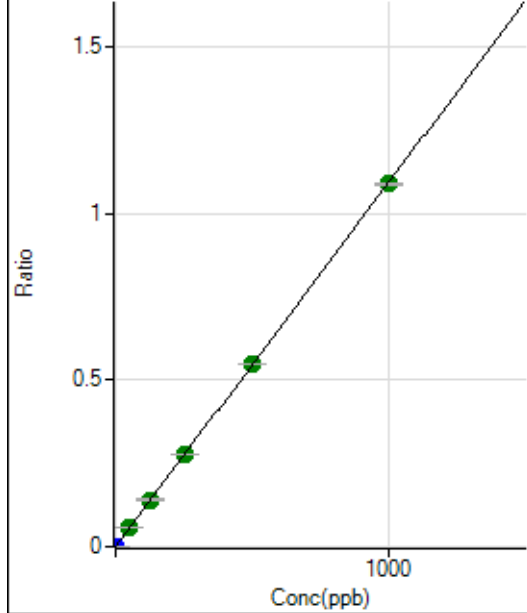
$$R = 0.9999$$

$$DL = 0.002132$$

$$BEC = 0.005174$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	842.26	0.0000	P	3.2
2	☐	1.000	1.060	31660.35	0.0012	P	0.7
3	☐	50.000	51.489	1511682.76	0.0563	A	1.6
4	☐	125.000	129.175	3764874.46	0.1413	A	1.5
5	☐	250.000	253.085	7545669.20	0.2768	A	0.3
6	☐	500.000	503.433	14945739.78	0.5506	A	0.4
7	☐	1000.000	996.916	30053992.33	1.0902	A	0.8
8	☐			15937.03	0.0007	P	4.9

$$y = 0.0011 * x + 3.1763E-005$$

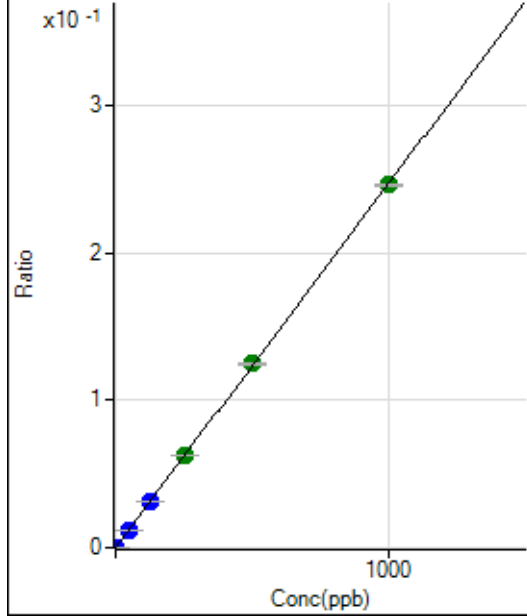
$$R = 1.0000$$

$$DL = 0.002816$$

$$BEC = 0.02905$$

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	198.89	0.0000	P	18.3
2	☐	1.000	1.005	6785.05	0.0003	P	3.1
3	☐	50.000	49.575	328295.49	0.0122	P	2.0
4	☐	125.000	125.137	822692.96	0.0309	P	0.6
5	☐	250.000	253.544	1705002.39	0.0625	A	0.9
6	☐	500.000	504.585	3378793.42	0.1245	A	0.9
7	☐	1000.000	996.825	6778198.09	0.2459	A	0.7
8	☐			3637.18	0.0002	P	2.5

$$y = 2.4665\text{E-}004 * x + 7.5002\text{E-}006$$

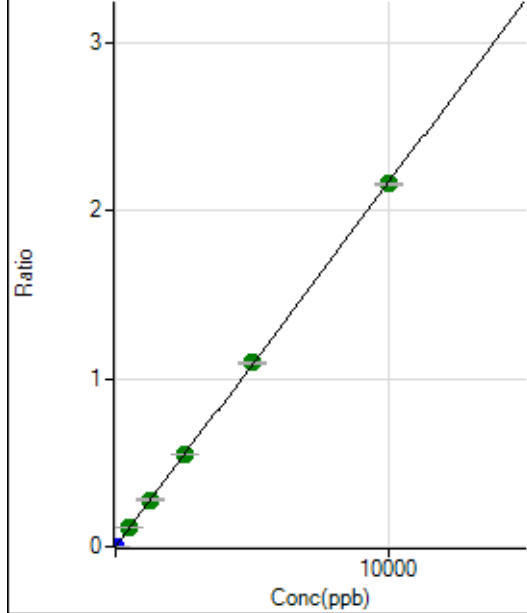
$$R = 1.0000$$

$$DL = 0.01672$$

$$BEC = 0.03041$$

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	328.90	0.0000	P	14.0
2	☐	5.000	6.233	36220.43	0.0014	P	2.2
3	☐	500.000	511.705	2975544.99	0.1109	A	1.8
4	☐	1250.000	1290.289	7450729.75	0.2796	A	1.0
5	☐	2500.000	2535.388	14977262.97	0.5494	A	1.3
6	☐	5000.000	5046.188	29684472.06	1.0935	A	0.3
7	☐	10000.000	9962.437	59513277.45	2.1588	A	0.3
8	☐			14276.46	0.0006	P	16.1

$$y = 2.1669\text{E-}004 * x + 1.2399\text{E-}005$$

$$R = 1.0000$$

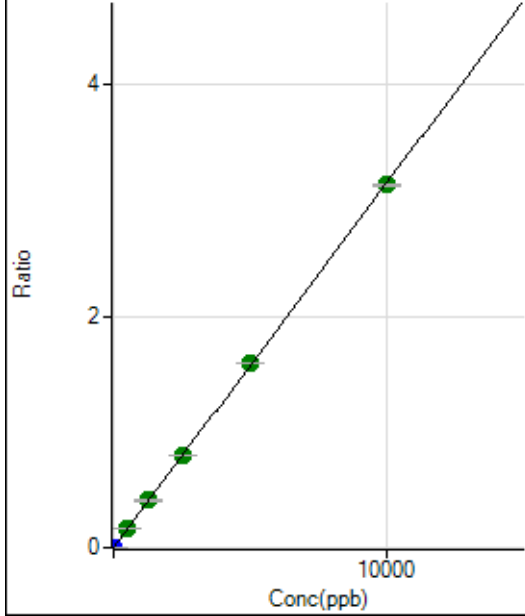
$$DL = 0.02404$$

$$BEC = 0.05722$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	115.56	0.0000	P	21.5
2	☐	5.000	5.271	44187.75	0.0017	P	1.3
3	☐	500.000	511.635	4319374.80	0.1610	A	1.6
4	☐	1250.000	1293.524	10844540.53	0.4070	A	0.9
5	☐	2500.000	2526.748	21671124.95	0.7950	A	1.1
6	☐	5000.000	5058.805	43206127.13	1.5916	A	0.5
7	☐	10000.000	9957.888	86367316.49	3.1329	A	0.4
8	☐			14403.24	0.0006	P	13.2

$$y = 3.1462\text{E-}004 * x + 4.3549\text{E-}006$$

$$R = 1.0000$$

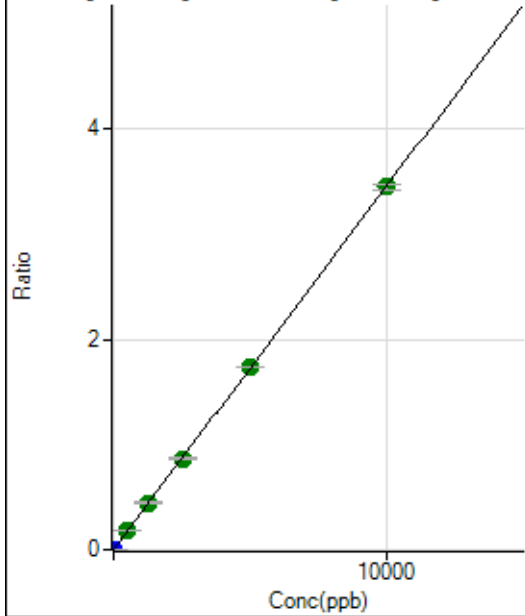
$$DL = 0.008916$$

$$BEC = 0.01384$$

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	167.78	0.0000	P	17.6
2	☐	5.000	5.292	48742.83	0.0018	P	0.7
3	☐	500.000	511.005	4735959.62	0.1765	A	1.2
4	☐	1250.000	1293.401	11904002.74	0.4467	A	0.6
5	☐	2500.000	2503.306	23568440.48	0.8646	A	1.5
6	☐	5000.000	5020.954	47075909.30	1.7341	A	0.4
7	☐	10000.000	9982.721	95046579.70	3.4478	A	1.3
8	☐			18777.45	0.0008	P	12.3

$$y = 3.4538\text{E-}004 * x + 6.3299\text{E-}006$$

$$R = 1.0000$$

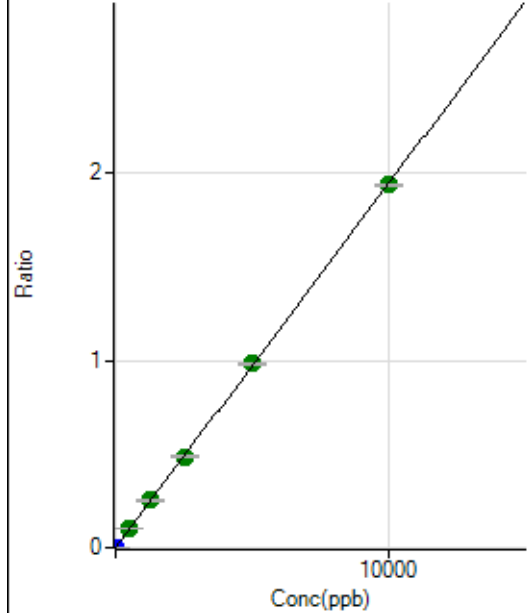
$$DL = 0.00967$$

$$BEC = 0.01833$$

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	71.11	0.0000	P	18.9
2	☐	5.000	5.280	27379.27	0.0010	P	1.0
3	☐	500.000	510.131	2663998.68	0.0993	A	1.5
4	☐	1250.000	1297.828	6730159.20	0.2526	A	1.5
5	☐	2500.000	2508.677	13308633.00	0.4882	A	1.6
6	☐	5000.000	5048.874	26673502.38	0.9826	A	1.0
7	☐	10000.000	9966.909	53472244.76	1.9397	A	0.8
8	☐			7060.78	0.0003	P	14.7

$$y = 1.9461E-004 * x + 2.6803E-006$$

$$R = 1.0000$$

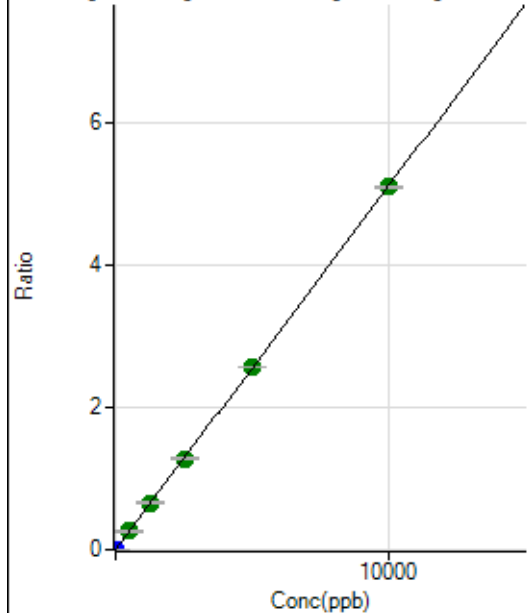
$$DL = 0.007828$$

$$BEC = 0.01377$$

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	173.34	0.0000	P	8.2
2	☐	5.000	5.231	71302.84	0.0027	P	1.4
3	☐	500.000	505.049	6933663.37	0.2584	A	1.3
4	☐	1250.000	1293.543	17635784.46	0.6618	A	1.3
5	☐	2500.000	2507.265	34969910.59	1.2828	A	0.5
6	☐	5000.000	5026.878	69817791.74	2.5719	A	0.2
7	☐	10000.000	9979.049	140748210.1	5.1056	A	0.3
8	☐			17392.43	0.0007	P	17.7

$$y = 5.1163E-004 * x + 6.5371E-006$$

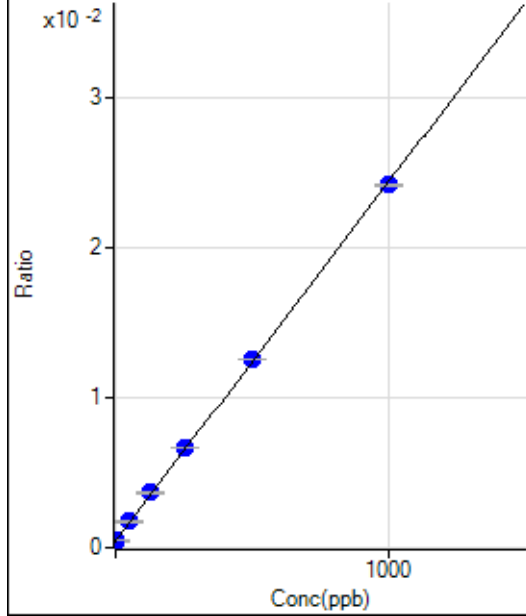
$$R = 1.0000$$

$$DL = 0.003157$$

$$BEC = 0.01278$$

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	8643.87	0.0004	P	3.7
2	☐	1.000	1.009	9127.55	0.0005	P	2.6
3	☐	50.000	53.809	34108.70	0.0017	P	2.1
4	☐	125.000	134.330	71863.50	0.0037	P	1.3
5	☐	250.000	260.627	133040.58	0.0067	P	1.4
6	☐	500.000	507.181	251944.02	0.0126	P	0.5
7	☐	1000.000	992.396	484666.21	0.0242	P	0.6
8	☐			7335.35	0.0004	P	2.3

$$y = 2.3943\text{E-}005 * x + 4.4521\text{E-}004$$

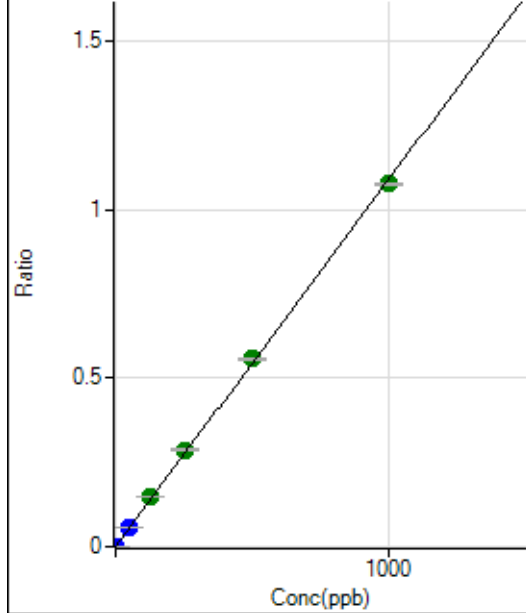
$$R = 0.9999$$

$$DL = 2.06$$

$$BEC = 18.59$$

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	188.89	0.0000	P	6.9
2	☐	1.000	1.064	22709.90	0.0012	P	0.8
3	☐	50.000	53.123	1137683.72	0.0578	P	0.9
4	☐	125.000	135.839	2901224.19	0.1478	A	2.1
5	☐	250.000	264.523	5728422.62	0.2879	A	0.9
6	☐	500.000	512.117	11152943.31	0.5573	A	0.8
7	☐	1000.000	988.800	21544183.29	1.0760	A	0.6
8	☐			3228.20	0.0002	P	18.8

$$y = 0.0011 * x + 9.7304\text{E-}006$$

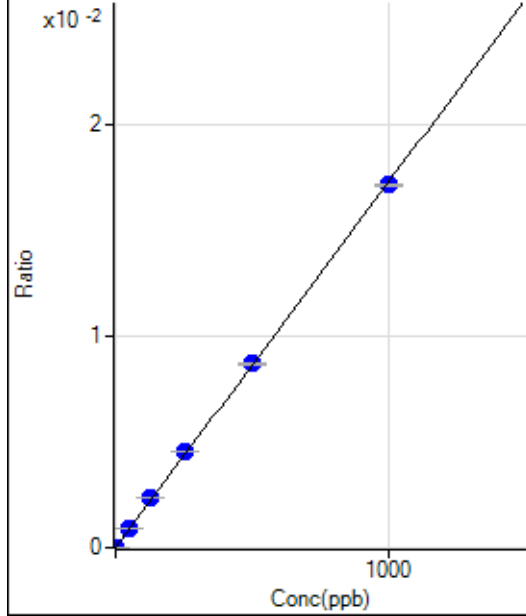
$$R = 0.9997$$

$$DL = 0.001859$$

$$BEC = 0.008942$$

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	15.56	0.0000	P	33.0
2	☐	1.000	1.147	401.12	0.0000	P	15.4
3	☐	50.000	54.152	18415.69	0.0009	P	1.4
4	☐	125.000	136.611	46314.12	0.0024	P	1.2
5	☐	250.000	263.075	90413.74	0.0045	P	1.4
6	☐	500.000	504.380	174316.81	0.0087	P	1.0
7	☐	1000.000	992.882	343288.06	0.0171	P	0.6
8	☐			164.45	0.0000	P	20.6

$$y = 1.7267\text{E-}005 * x + 8.0183\text{E-}007$$

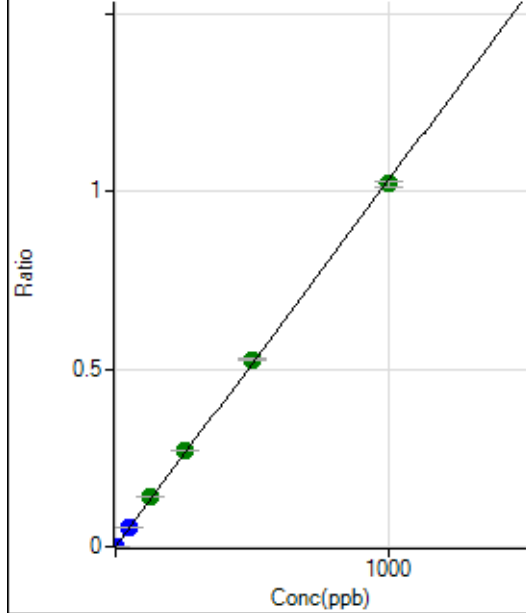
$$R = 0.9999$$

$$DL = 0.04591$$

$$BEC = 0.04644$$

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	80.00	0.0000	P	4.5
2	☐	1.000	1.075	21622.62	0.0011	P	2.2
3	☐	50.000	53.659	1088103.97	0.0553	P	1.0
4	☐	125.000	137.887	2788986.14	0.1421	A	0.4
5	☐	250.000	263.405	5401752.91	0.2714	A	0.6
6	☐	500.000	509.895	10515799.29	0.5254	A	0.9
7	☐	1000.000	989.907	20423629.00	1.0201	A	1.6
8	☐			2920.35	0.0002	P	23.0

$$y = 0.0010 * x + 4.1210\text{E-}006$$

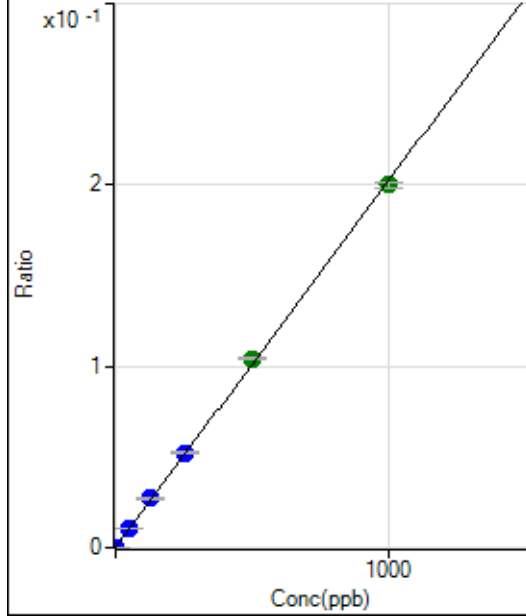
$$R = 0.9998$$

$$DL = 0.0005429$$

$$BEC = 0.003999$$

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	1734.55	0.0001	P	4.0
2	☐	1.000	1.141	6226.68	0.0003	P	3.3
3	☐	50.000	52.687	211493.23	0.0107	P	1.2
4	☐	125.000	134.054	533998.94	0.0272	P	1.5
5	☐	250.000	259.061	1044697.24	0.0525	P	1.2
6	☐	500.000	515.365	2088327.07	0.1043	A	1.0
7	☐	1000.000	988.786	4006757.51	0.2001	A	1.4
8	☐			2257.55	0.0001	P	6.0

$$y = 2.0230E-004 * x + 8.9340E-005$$

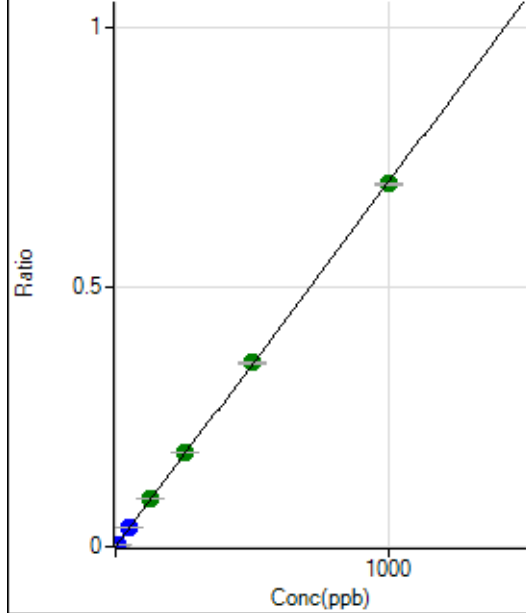
$$R = 0.9998$$

$$DL = 0.05315$$

$$BEC = 0.4416$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1381.20	0.0001	P	9.8
2	☐	5.000	5.335	74306.70	0.0038	P	2.1
3	☐	50.000	51.847	718544.17	0.0365	P	0.9
4	☐	125.000	131.425	1814516.99	0.0925	A	2.1
5	☐	250.000	258.046	3611201.72	0.1815	A	0.4
6	☐	500.000	503.905	7090489.06	0.3543	A	0.6
7	☐	1000.000	995.139	14007363.96	0.6996	A	0.7
8	☐			4112.88	0.0002	P	6.8

$$y = 7.0294E-004 * x + 7.1137E-005$$

$$R = 0.9999$$

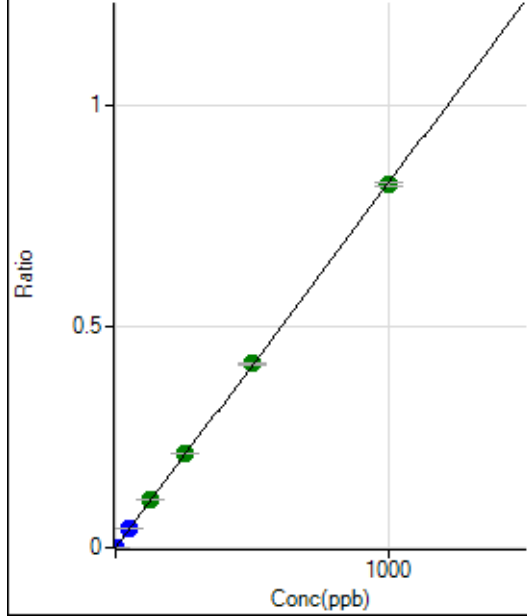
$$DL = 0.02982$$

$$BEC = 0.1012$$

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	45.56	0.0000	P	11.5
2	☐	2.000	2.118	33982.24	0.0017	P	0.8
3	☐	50.000	50.969	826521.01	0.0420	P	1.1
4	☐	125.000	132.771	2147432.75	0.1094	A	1.7
5	☐	250.000	258.177	4233941.60	0.2128	A	0.8
6	☐	500.000	503.750	8308116.61	0.4151	A	0.3
7	☐	1000.000	995.061	16418047.12	0.8200	A	1.1
8	☐			9816.93	0.0006	P	3.1

$$y = 8.2407\text{E-}004 * x + 2.3471\text{E-}006$$

$$R = 0.9999$$

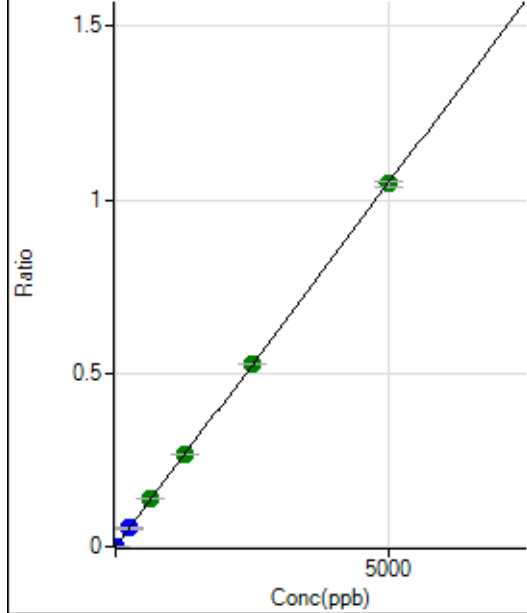
$$DL = 0.0009798$$

$$BEC = 0.002848$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	142.22	0.0000	P	9.5
2	☐	10.000	10.694	43733.72	0.0022	P	3.1
3	☐	250.000	252.418	1041517.40	0.0529	P	1.1
4	☐	625.000	658.274	2709104.91	0.1380	A	0.9
5	☐	1250.000	1266.460	5284361.69	0.2655	A	1.1
6	☐	2500.000	2508.642	10526672.90	0.5260	A	0.8
7	☐	5000.000	4987.282	20936593.99	1.0457	A	1.3
8	☐			7767.85	0.0004	P	4.0

$$y = 2.0967\text{E-}004 * x + 7.3254\text{E-}006$$

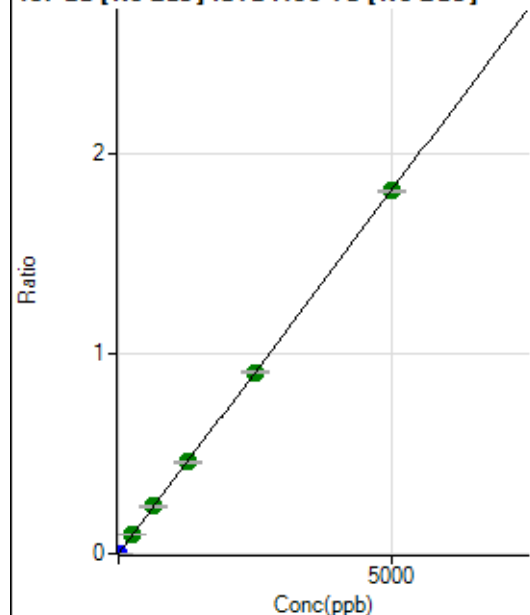
$$R = 1.0000$$

$$DL = 0.00991$$

$$BEC = 0.03494$$

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	213.34	0.0000	P	12.0
2	☐	10.000	10.719	75874.21	0.0039	P	0.9
3	☐	250.000	259.221	1851598.05	0.0941	A	1.9
4	☐	625.000	651.318	4640146.18	0.2364	A	2.0
5	☐	1250.000	1264.854	9136805.56	0.4591	A	1.3
6	☐	2500.000	2498.303	18149006.26	0.9069	A	0.9
7	☐	5000.000	4993.383	36291883.35	1.8125	A	0.4
8	☐			13876.11	0.0008	P	5.5

$$y = 3.6299E-004 * x + 1.0990E-005$$

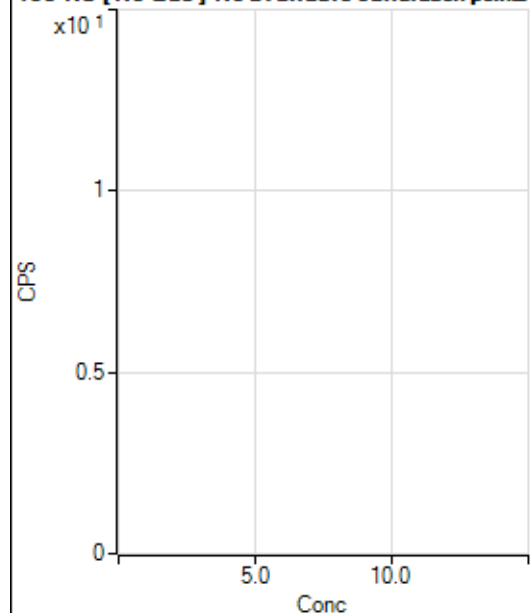
$$R = 1.0000$$

$$DL = 0.01087$$

$$BEC = 0.03028$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

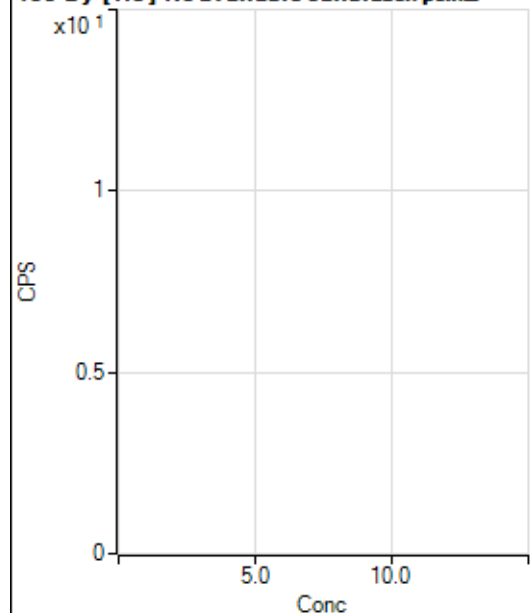
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	100.
2	☐			21.11		P	39.7
3	☐			96.67		P	26.0
4	☐			251.12		P	7.3
5	☐			471.12		P	2.5
6	☐			882.26		P	3.3
7	☐			1790.14		P	2.0
8	☐			304.45		P	12.1

150 Nd [He] No available calibration points

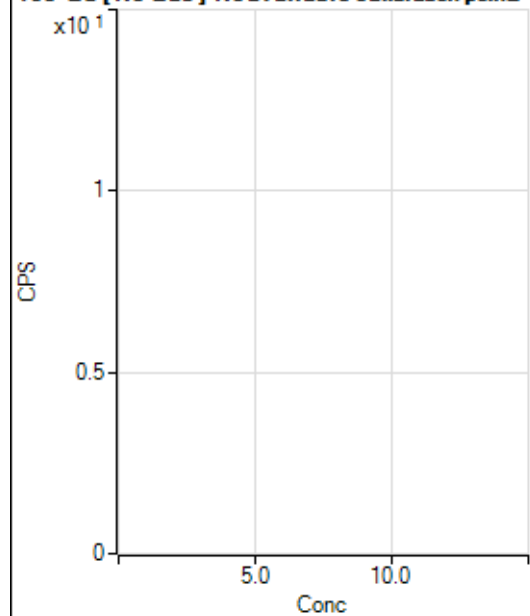
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			8.89		P	21.6
4	☐			6.67		P	86.6
5	☐			21.11		P	39.7
6	☐			33.33		P	30.0
7	☐			44.45		P	37.7
8	☐			87.78		P	4.4

156 Dy [No Gas] No available calibration points

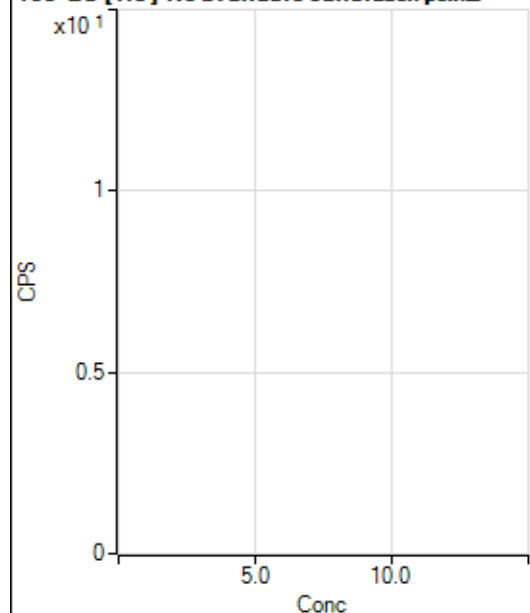
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	32.7
2	☐			31.11		P	12.4
3	☐			44.44		P	38.5
4	☐			75.55		P	35.4
5	☐			113.34		P	20.4
6	☐			214.45		P	17.7
7	☐			408.90		P	13.3
8	☐			637.80		P	7.0

156 Dy [He] No available calibration points

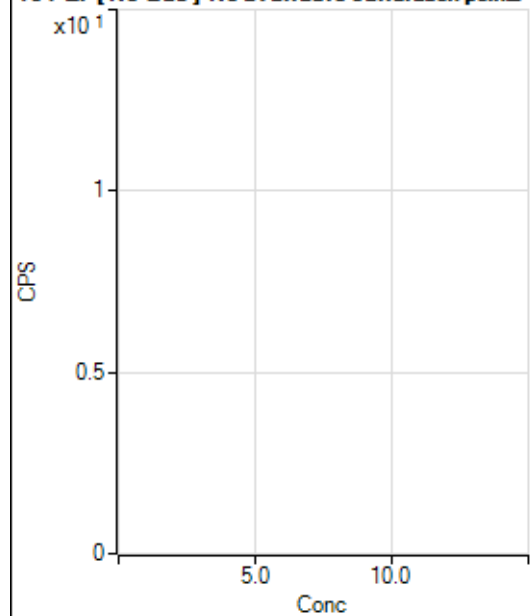
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			6.67		P	50.0
3	☐			8.89		P	57.3
4	☐			15.56		P	32.7
5	☐			11.11		P	34.6
6	☐			25.56		P	39.8
7	☐			65.56		P	32.7
8	☐			170.00		P	3.4

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.67		P	12.4
2	☐			90.00		P	3.7
3	☐			92.22		P	19.9
4	☐			133.34		P	12.5
5	☐			154.45		P	21.8
6	☐			154.45		P	2.5
7	☐			276.67		P	7.5
8	☐			696.69		P	3.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	25.0
2	☐			23.33		P	37.8
3	☐			16.67		P	20.0
4	☐			18.89		P	56.7
5	☐			30.00		P	33.3
6	☐			48.89		P	3.9
7	☐			75.56		P	16.7
8	☐			238.89		P	11.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			114.45		P	11.8
2	☐			87.78		P	9.6
3	☐			127.78		P	29.3
4	☐			140.00		P	17.2
5	☐			171.11		P	4.9
6	☐			183.34		P	11.9
7	☐			283.34		P	11.8
8	☐			708.92		P	6.1

164 Er [He] No available calibration points

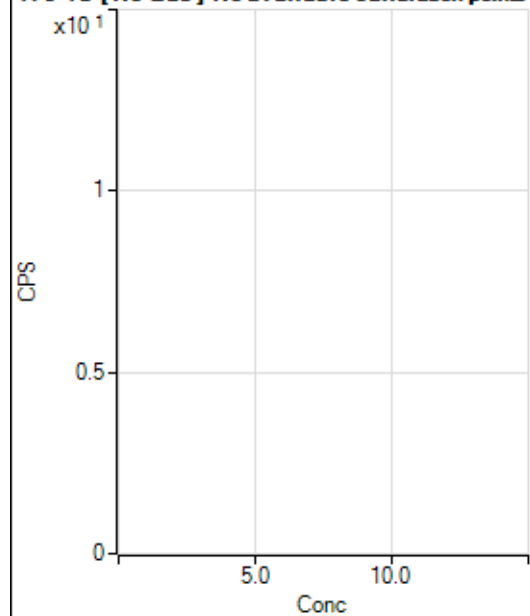
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	6.9
2	☐			42.22		P	16.4
3	☐			47.78		P	10.7
4	☐			25.55		P	27.1
5	☐			50.00		P	17.6
6	☐			68.89		P	17.0
7	☐			100.00		P	15.3
8	☐			215.56		P	5.9

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			114.45		P	8.9
2	☐			125.56		P	18.8
3	☐			110.00		P	23.7
4	☐			137.78		P	11.9
5	☐			163.34		P	14.7
6	☐			206.67		P	8.5
7	☐			295.56		P	14.9
8	☐			788.92		P	12.0

172 Yb [He] No available calibration points

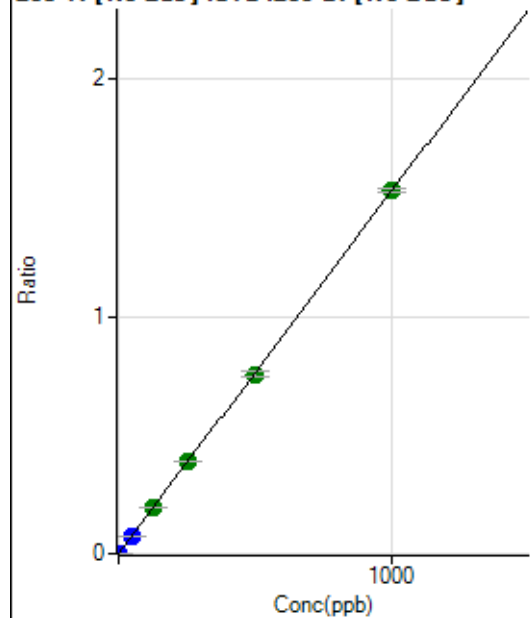
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	18.3
2	☐			38.89		P	32.4
3	☐			51.11		P	29.4
4	☐			43.33		P	13.3
5	☐			73.34		P	35.5
6	☐			82.22		P	16.4
7	☐			111.11		P	15.4
8	☐			288.89		P	10.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2601.40		P	5.2
2	☐			2643.63		P	2.5
3	☐			6427.18		P	1.0
4	☐			12444.83		P	1.1
5	☐			22906.63		P	1.8
6	☐			42304.17		P	0.4
7	☐			83560.86		P	0.8
8	☐			2758.09		P	5.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			416.68		P	7.6
2	☐			395.57		P	9.8
3	☐			1683.46		P	1.3
4	☐			3816.15		P	2.4
5	☐			7093.07		P	2.6
6	☐			13726.10		P	0.7
7	☐			27013.20		P	0.9
8	☐			523.35		P	5.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	261.12	0.0000	P	13.8
2	☐	1.000	0.986	18854.88	0.0015	P	0.5
3	☐	50.000	48.910	919775.82	0.0748	P	1.7
4	☐	125.000	127.134	2374109.65	0.1944	A	1.0
5	☐	250.000	254.074	4679165.28	0.3884	A	0.7
6	☐	500.000	495.889	9058046.46	0.7580	A	2.5
7	☐	1000.000	1000.825	17795416.12	1.5299	A	1.1
8	☐			2105.75	0.0002	P	23.1

$$y = 0.0015 * x + 2.1391E-005$$

$$R = 1.0000$$

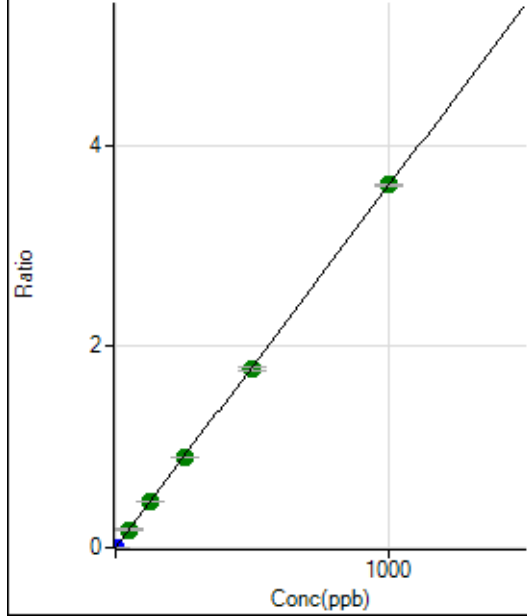
$$DL = 0.005804$$

$$BEC = 0.01399$$

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	600.02	0.0000	P	4.2
2	☐	1.000	0.986	44351.09	0.0036	P	2.1
3	☐	50.000	50.378	2229910.99	0.1813	A	0.9
4	☐	125.000	126.032	5539479.78	0.4535	A	0.5
5	☐	250.000	251.299	10892656.23	0.9042	A	0.7
6	☐	500.000	494.492	21262087.18	1.7791	A	1.3
7	☐	1000.000	1002.282	41944511.60	3.6060	A	0.8
8	☐			4942.14	0.0005	P	23.8

$$y = 0.0036 * x + 4.9122E-005$$

$$R = 1.0000$$

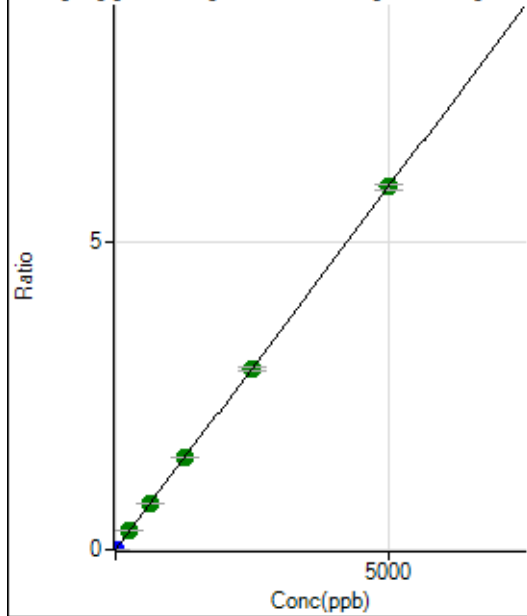
$$DL = 0.001719$$

$$BEC = 0.01365$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1441.21	0.0001	P	1.9
2	☐	1.000	1.007	16108.98	0.0013	P	2.5
3	☐	250.000	254.666	3697775.12	0.3007	A	1.2
4	☐	625.000	631.542	9105492.44	0.7454	A	1.1
5	☐	1250.000	1268.069	18029221.68	1.4966	A	0.9
6	☐	2500.000	2492.471	35146714.75	2.9415	A	3.0
7	☐	5000.000	4998.196	68607460.09	5.8985	A	1.3
8	☐			21784.02	0.0023	P	6.0

$$y = 0.0012 * x + 1.1798E-004$$

$$R = 1.0000$$

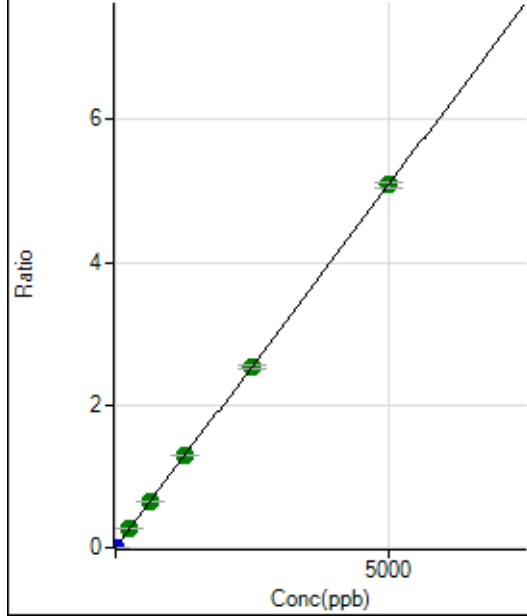
$$DL = 0.005725$$

$$BEC = 0.09998$$

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	1273.41	0.0001	P	1.4
2	☐	1.000	1.045	14379.19	0.0012	P	3.4
3	☐	250.000	254.405	3182666.20	0.2588	A	1.0
4	☐	625.000	636.162	7902025.92	0.6469	A	0.6
5	☐	1250.000	1268.836	15542303.52	1.2902	A	1.2
6	☐	2500.000	2486.800	30214094.83	2.5285	A	2.4
7	☐	5000.000	5000.276	59131514.68	5.0840	A	1.9
8	☐			18964.03	0.0020	P	7.5

$$y = 0.0010 * x + 1.0424E-004$$

$$R = 1.0000$$

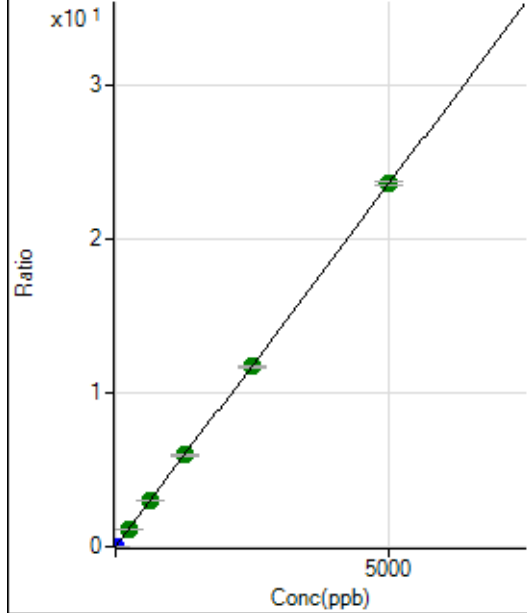
$$DL = 0.004164$$

$$BEC = 0.1025$$

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	5703.88	0.0005	P	3.2
2	☐	1.000	1.024	65251.42	0.0053	P	1.7
3	☐	250.000	251.272	14568274.54	1.1844	A	0.5
4	☐	625.000	631.717	36365243.49	2.9770	A	0.2
5	☐	1250.000	1261.595	71617304.07	5.9449	A	1.2
6	☐	2500.000	2480.935	139699024.0	11.6903	A	1.9
7	☐	5000.000	5005.730	274350285.9	23.5867	A	1.1
8	☐			87419.74	0.0093	P	6.4

$$y = 0.0047 * x + 4.6697E-004$$

$$R = 1.0000$$

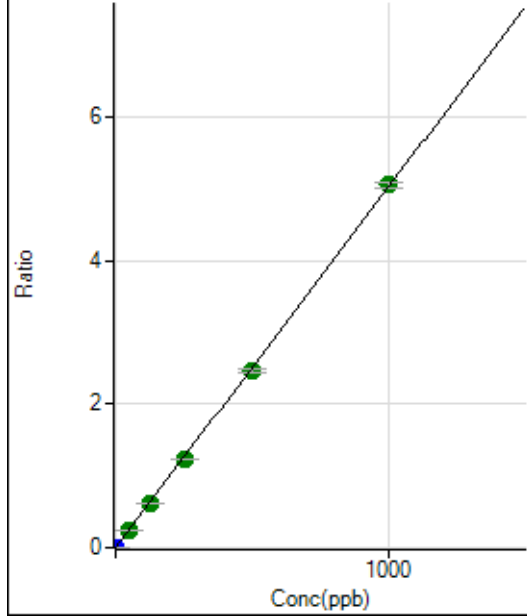
$$DL = 0.009391$$

$$BEC = 0.0991$$

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	146.67	0.0000	P	22.3
2	☐	1.000	0.985	61130.41	0.0050	P	1.1
3	☐	50.000	49.117	3033679.15	0.2467	A	1.0
4	☐	125.000	122.340	7504251.49	0.6143	A	2.0
5	☐	250.000	245.507	14851732.00	1.2328	A	1.7
6	☐	500.000	490.644	29443949.84	2.4638	A	1.6
7	☐	1000.000	1006.178	58768231.90	5.0526	A	1.5
8	☐			4347.50	0.0005	P	27.9

$$y = 0.0050 * x + 1.2013E-005$$

$$R = 0.9999$$

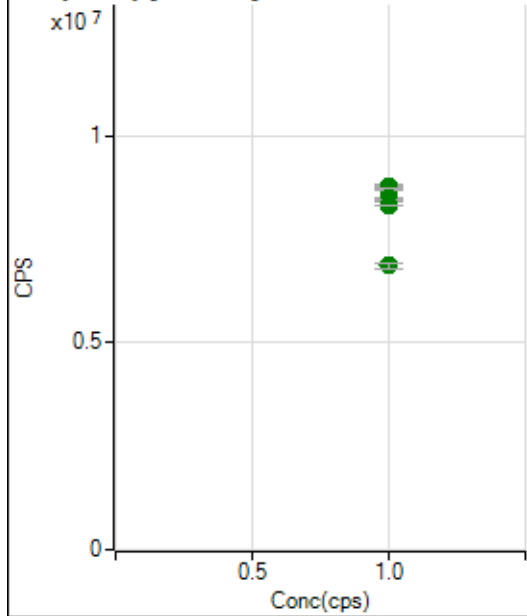
$$DL = 0.0016$$

$$BEC = 0.002392$$

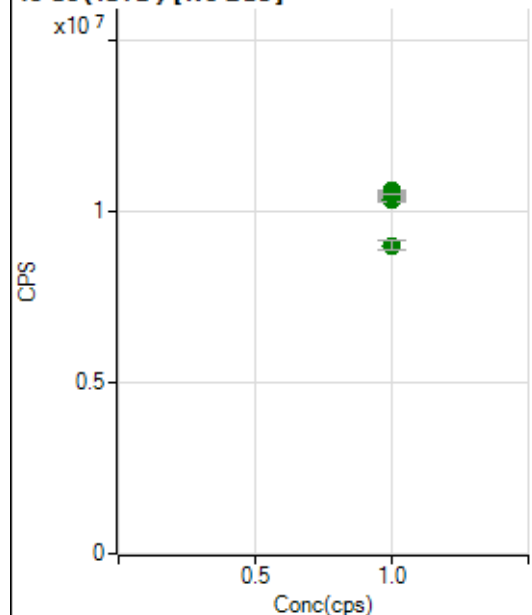
Weight: <None>

Min Conc: 0

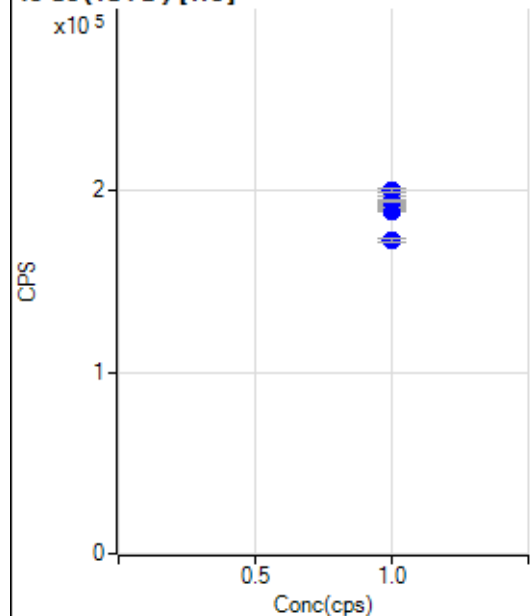
6 Li (ISTD) [No Gas]



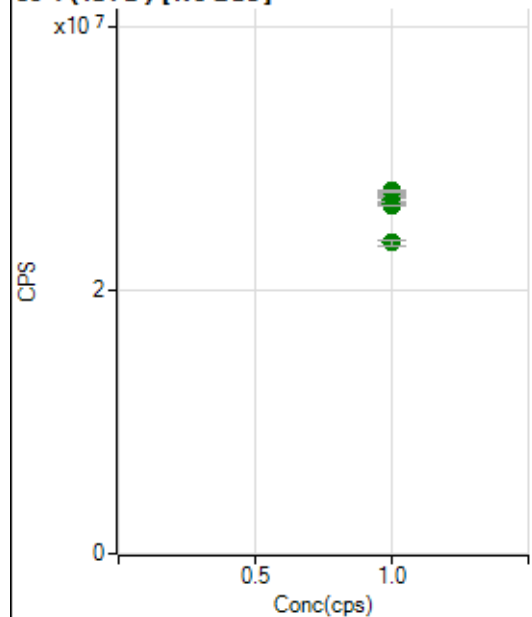
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8749338.53		A	1.3
2	☐	1.000		8755306.64		A	0.1
3	☐	1.000		8703403.55		A	0.3
4	☐	1.000		8496925.50		A	0.2
5	☐	1.000		8434651.72		A	1.0
6	☐	1.000		8456238.61		A	0.3
7	☐	1.000		8319306.46		A	0.2
8	☐	1.000		6850418.55		A	1.8

45 Sc (ISTD) [No Gas]

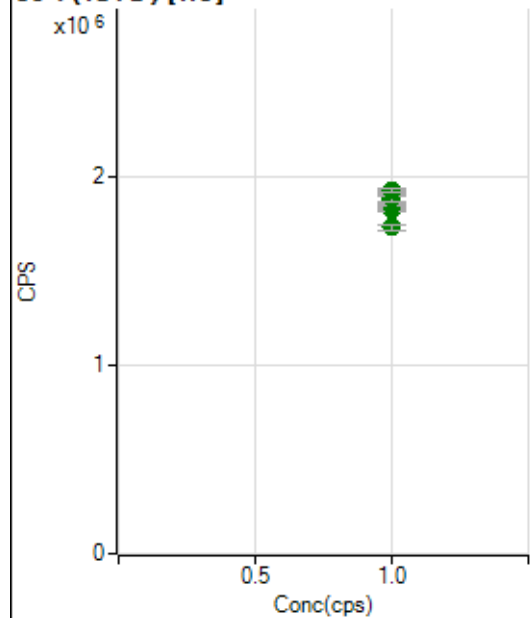
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10307349.01		A	0.3
2	☐	1.000		10314932.42		A	1.1
3	☐	1.000		10396492.90		A	1.6
4	☐	1.000		10336063.94		A	0.8
5	☐	1.000		10499062.97		A	0.7
6	☐	1.000		10597020.54		A	0.9
7	☐	1.000		10505883.94		A	0.5
8	☐	1.000		9007472.71		A	2.9

45 Sc (ISTD) [He]

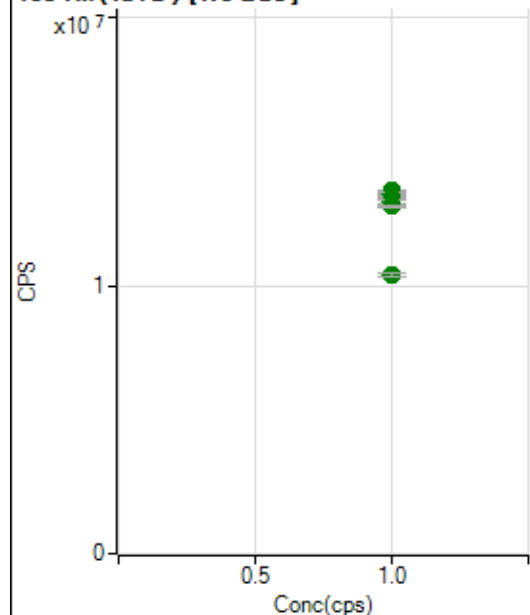
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		188743.15		P	0.6
2	☐	1.000		194495.90		P	2.7
3	☐	1.000		190108.34		P	0.2
4	☐	1.000		190818.94		P	0.5
5	☐	1.000		193616.40		P	0.6
6	☐	1.000		194010.69		P	0.4
7	☐	1.000		199733.19		P	1.1
8	☐	1.000		172818.44		P	1.2

89 Y (ISTD) [No Gas]

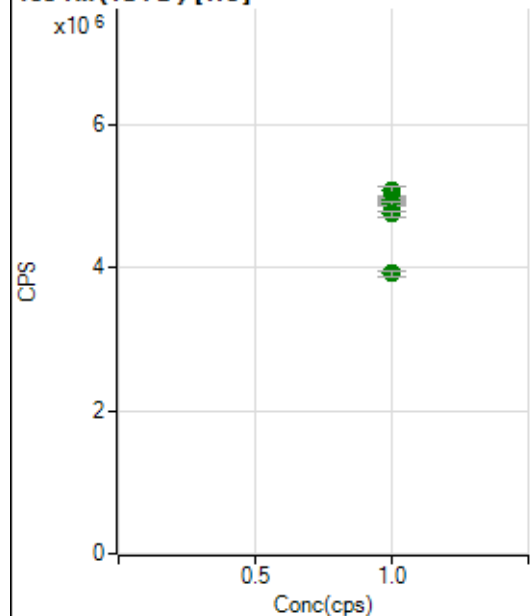
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		26514125.71		A	0.5
2	☐	1.000		26576919.33		A	0.8
3	☐	1.000		26835071.55		A	1.0
4	☐	1.000		26648809.33		A	1.1
5	☐	1.000		27261466.54		A	0.7
6	☐	1.000		27146518.48		A	0.2
7	☐	1.000		27567807.37		A	0.3
8	☐	1.000		23617476.32		A	2.0

89 Y (ISTD) [He]

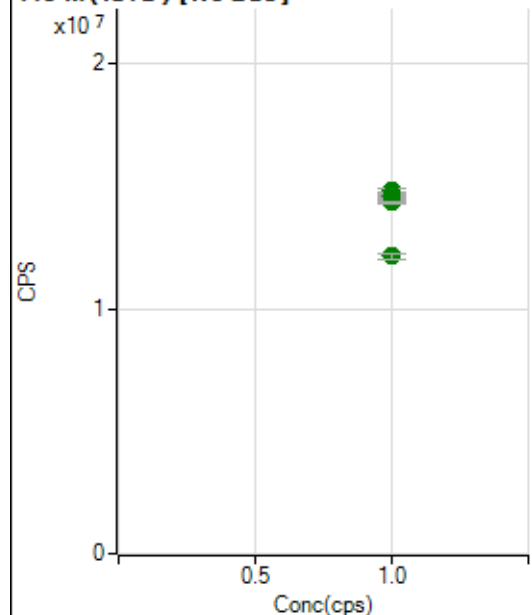
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1822015.84		A	0.6
2	☐	1.000		1876735.95		A	2.7
3	☐	1.000		1844202.07		A	1.0
4	☐	1.000		1851342.85		A	0.6
5	☐	1.000		1879639.80		A	1.3
6	☐	1.000		1921492.99		A	0.7
7	☐	1.000		1920951.20		A	1.1
8	☐	1.000		1727542.66		A	1.8

103 Rh (ISTD) [No Gas]

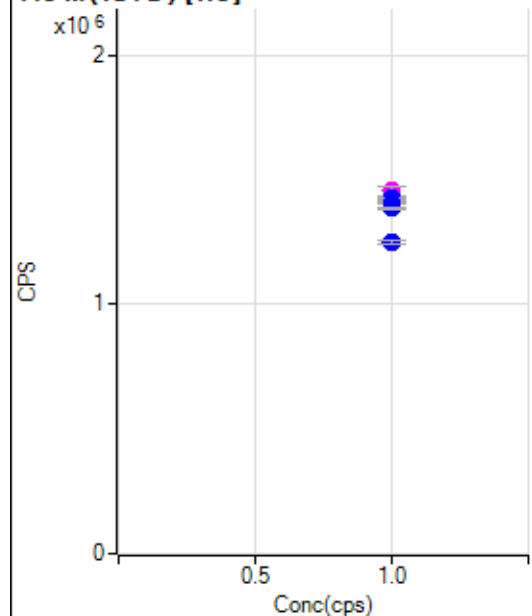
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13468323.69		A	0.8
2	☐	1.000		13547108.83		A	0.7
3	☐	1.000		13388965.22		A	0.3
4	☐	1.000		13434932.58		A	1.2
5	☐	1.000		13268684.52		A	0.2
6	☐	1.000		13132212.72		A	1.3
7	☐	1.000		12970077.58		A	0.7
8	☐	1.000		10386987.69		A	1.5

103 Rh (ISTD) [He]

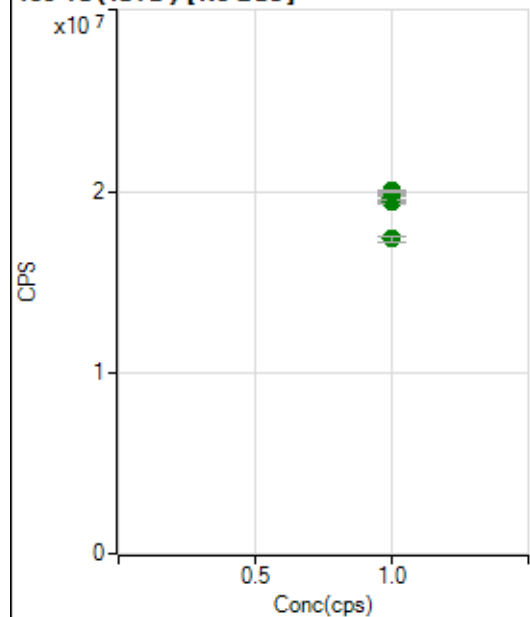
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4963818.78		A	0.6
2	☐	1.000		5079028.08		A	2.5
3	☐	1.000		4954857.39		A	0.7
4	☐	1.000		4920791.11		A	1.2
5	☐	1.000		4950184.16		A	0.7
6	☐	1.000		4898591.73		A	1.0
7	☐	1.000		4755307.88		A	1.8
8	☐	1.000		3918102.10		A	1.7

115 In (ISTD) [No Gas]

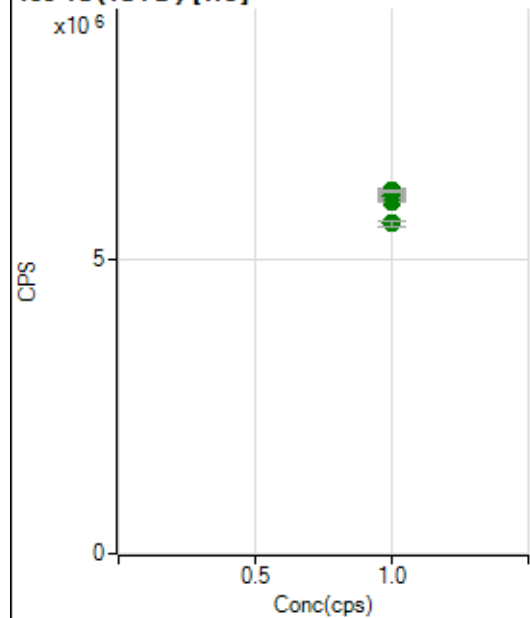
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14579367.27		A	0.3
2	☐	1.000		14647545.57		A	0.4
3	☐	1.000		14802427.61		A	1.0
4	☐	1.000		14657396.48		A	1.0
5	☐	1.000		14573952.12		A	1.3
6	☐	1.000		14494904.68		A	0.8
7	☐	1.000		14330857.18		A	0.7
8	☐	1.000		12121881.65		A	1.4

115 In (ISTD) [He]

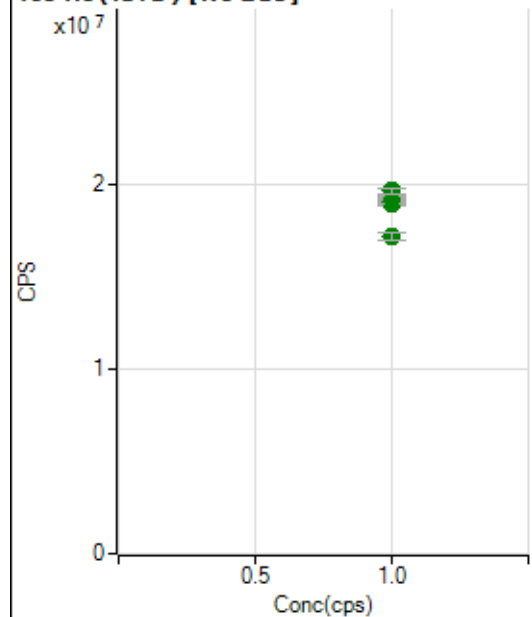
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1409801.56		P	0.5
2	☐	1.000		1454467.02		M	2.5
3	☐	1.000		1428113.34		P	0.2
4	☐	1.000		1422676.91		P	0.8
5	☐	1.000		1424079.18		P	0.7
6	☐	1.000		1404991.76		P	0.1
7	☐	1.000		1383906.16		P	0.3
8	☐	1.000		1247944.41		P	1.3

159 Tb (ISTD) [No Gas]

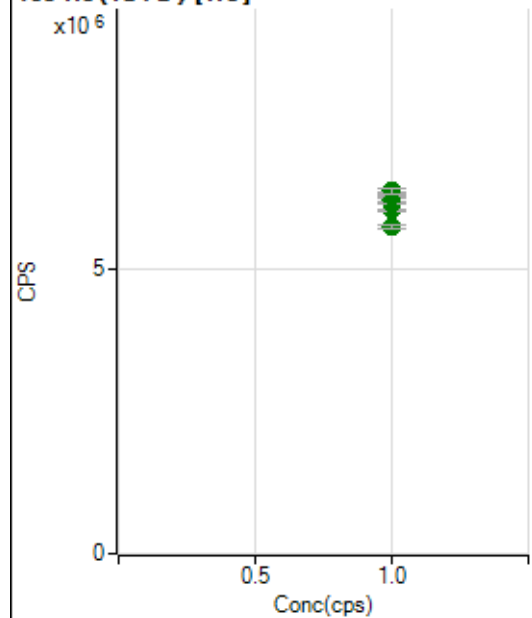
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19414855.40		A	0.4
2	☐	1.000		19447034.57		A	1.2
3	☐	1.000		19678241.37		A	1.1
4	☐	1.000		19628274.15		A	1.0
5	☐	1.000		19900629.98		A	0.4
6	☐	1.000		20013589.15		A	0.5
7	☐	1.000		20022576.92		A	0.5
8	☐	1.000		17352238.63		A	2.0

159 Tb (ISTD) [He]

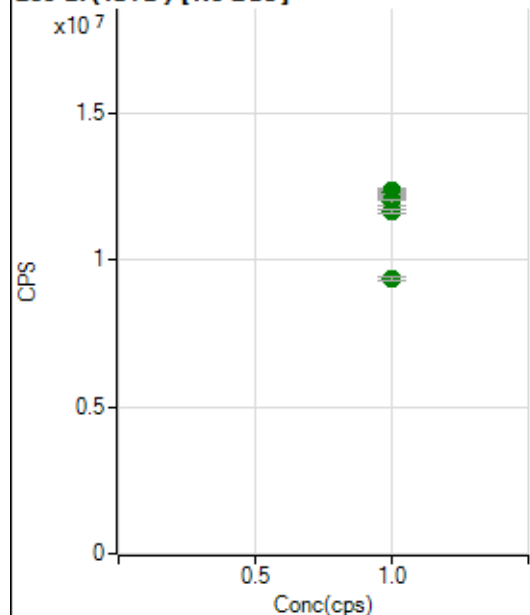
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5996544.63		A	0.8
2	☐	1.000		6148342.27		A	2.4
3	☐	1.000		6071832.20		A	0.8
4	☐	1.000		6080305.54		A	1.1
5	☐	1.000		6165550.74		A	1.6
6	☐	1.000		6162174.70		A	0.8
7	☐	1.000		6157028.52		A	0.5
8	☐	1.000		5615472.07		A	1.7

165 Ho (ISTD) [No Gas]

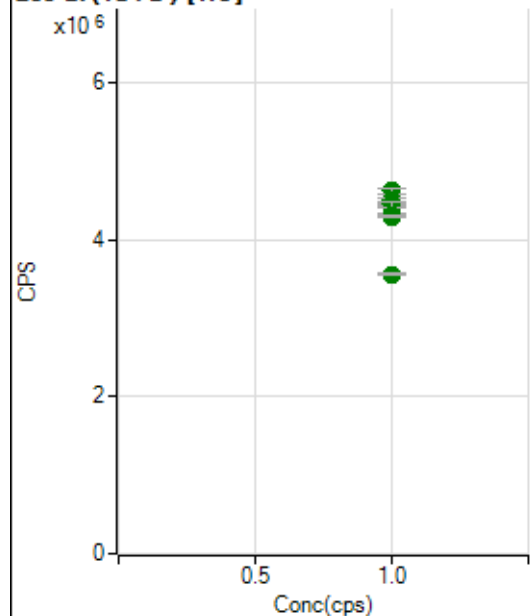
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19009008.47		A	0.7
2	☐	1.000		19120141.38		A	1.1
3	☐	1.000		19310267.21		A	1.1
4	☐	1.000		19351499.02		A	0.6
5	☐	1.000		19524832.21		A	0.4
6	☐	1.000		19481702.21		A	0.8
7	☐	1.000		19697730.54		A	1.4
8	☐	1.000		17223702.24		A	2.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6055879.91		A	0.6
2	☐	1.000		6222770.95		A	1.7
3	☐	1.000		6168107.34		A	0.5
4	☐	1.000		6221970.46		A	1.9
5	☐	1.000		6309187.20		A	0.3
6	☐	1.000		6323287.20		A	1.0
7	☐	1.000		6388061.02		A	1.5
8	☐	1.000		5752489.98		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12216358.71		A	0.9
2	☐	1.000		12331346.21		A	0.9
3	☐	1.000		12300237.59		A	1.1
4	☐	1.000		12215257.73		A	0.3
5	☐	1.000		12047291.49		A	0.5
6	☐	1.000		11952695.52		A	1.7
7	☐	1.000		11632398.30		A	1.1
8	☐	1.000		9349372.98		A	1.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4475536.25		A	0.9
2	☐	1.000		4627261.39		A	1.8
3	☐	1.000		4515747.50		A	1.0
4	☐	1.000		4439609.00		A	0.4
5	☐	1.000		4455575.18		A	1.4
6	☐	1.000		4319612.57		A	0.8
7	☐	1.000		4300545.11		A	0.6
8	☐	1.000		3560257.66		A	0.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8011725MS-3.b

Acq. Date-Time 2025-01-17 11:46:42

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		40396	403960.77			0.103	5.000
24		722680	7226803.70			0.667	5.000
25		98129	981290.41			0.656	5.000
26		112132	1121316.94			0.730	5.000
59		165175	1651749.20			0.445	5.000
113		20481	204808.26			0.169	5.000
115		265760	2657598.96			0.476	5.000
206		62757	627571.02			0.193	5.000
207		54756	547557.14			0.232	5.000
208		135462	1354620.68			0.850	5.000
220		0	3.30			56.285	

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

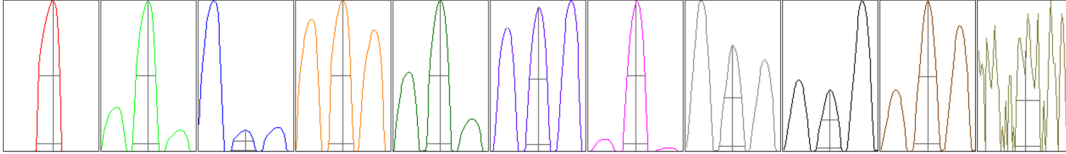
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	40326	40402	40401	40415	40436
24	723307	725334	714202	725442	725117
25	98788	97468	98494	97407	98488
26	112717	111664	113026	112260	110991
59	165533	165575	164200	165954	164613
113	20503	20518	20448	20494	20440
115	267606	266492	265279	264622	264802
206	62688	62737	62636	62770	62954
207	54818	54687	54567	54824	54882
208	133994	135413	135665	137179	135060

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	65882.41	9.10	8.90 - 9.10	
24	1228125.47	24.00	23.90 - 24.10	
25	167240.30	25.00	24.90 - 25.10	
26	190673.25	26.00	25.90 - 26.10	
59	290871.55	59.00	58.90 - 59.10	
113	39113.53	113.05	112.90 - 113.10	
115	505276.23	115.05	114.90 - 115.10	
206	120709.99	206.00	205.90 - 206.10	
207	103906.56	207.00	206.90 - 207.10	
208	253256.59	208.05	207.90 - 208.10	
220	0.40	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.788	0.900	
24	0.62	0.826	0.900	
25	0.63	0.780	0.900	
26	0.63	0.783	0.900	
59	0.60	0.778	0.900	
113	0.55	0.766	0.900	
115	0.55	0.769	0.900	
206	0.54	0.810	0.900	
207	0.54	0.785	0.900	
208	0.54	0.821	0.900	
220	0.73	0.793		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	-6.0 V	Omega Lens	8.5 V	Deflect	15.4 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9964	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	1.6 mm
---------	---------	---------	--------

EM

Discriminator	4.0 mV	Analog HV	2170 V	Pulse HV	1058 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		29102	291020.07			0.533	
89		22466	224664.89			0.840	
205		34235	342348.89			0.615	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	29346	29096	29039	28921	29108
89	22685	22343	22386	22269	22650
205	34598	34144	34202	34053	34178

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	-6.0 V	Omega Lens	8.5 V	Deflect	2.6 V
-----------	--------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	103	Axis Gain	0.9964	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		
Hardware Settings					
Torch					
Torch H	-0.4 mm	Torch V	1.6 mm		
EM					
Discriminator	4.0 mV	Analog HV	2170 V	Pulse HV	1058 V