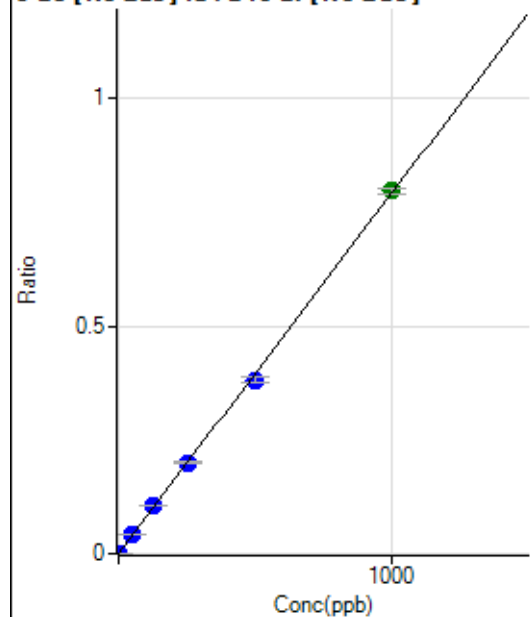


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7010325MS-4.b\
 Analysis File: P7010325MS-4.batch.bin
 DA Date-Time: 2025-01-04 01:58:59
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-03 19:44:22
2	005CALS.d	S01	2025-01-03 19:47:36
3	006CALS.d	S02	2025-01-03 19:50:53
4	007CALS.d	S03	2025-01-03 19:54:07
5	008CALS.d	S04	2025-01-03 19:57:08
6	009CALS.d	S05	2025-01-03 19:59:58
7	010CALS.d	S06	2025-01-03 20:02:46
8	011CALS.d	S07	2025-01-03 20:05:29
9	012CALS.d	S08	2025-01-03 20:08:15

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	12.7
2	☐	0.100	0.114	201.11	0.0001	P	4.0
3	☐	1.000	1.134	1392.30	0.0009	P	6.0
4	☐	50.000	53.300	64092.40	0.0422	P	0.2
5	☐	125.000	131.638	161446.47	0.1043	P	0.5
6	☐	250.000	252.883	310964.31	0.2003	P	1.3
7	☐	500.000	482.804	597292.66	0.3823	P	2.6
8	☐	1000.000	1006.882	1214798.02	0.7973	A	1.7
9	☐			317.78	0.0002	P	4.8

$$y = 7.9182\text{E-}004 * x + 4.6195\text{E-}005$$

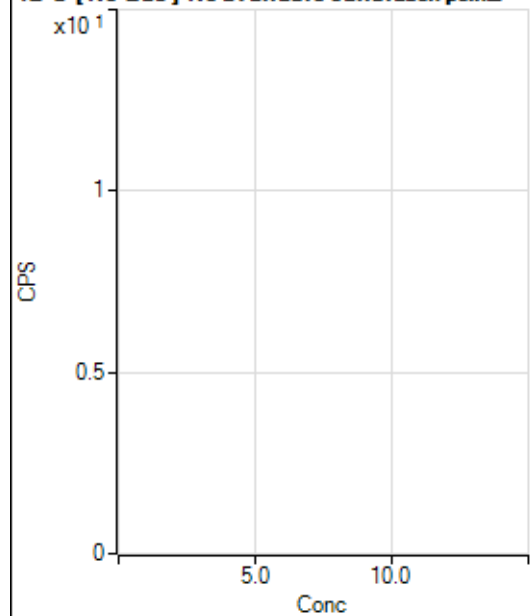
$$R = 0.9998$$

$$DL = 0.02216$$

$$BEC = 0.05834$$

Weight: <None>

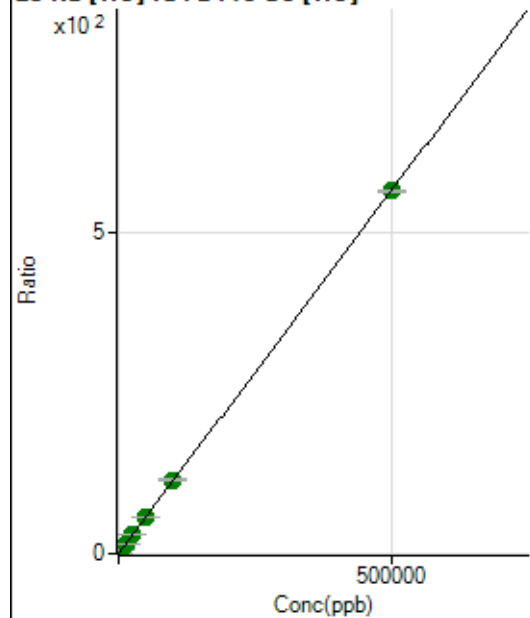
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23648.25	0.0401	P	2.6
2	☐	50.000	51.043	57659.56	0.0977	P	0.3
3	☐	500.000	509.682	363705.32	0.6151	P	1.1
4	☐	5000.000	4994.603	3292222.94	5.6746	A	0.4
5	☐	12500.000	12733.785	7947598.77	14.4053	A	1.3
6	☐	25000.000	25533.004	15063208.25	28.8444	A	0.4
7	☐	50000.000	50928.211	28901501.79	57.4932	A	0.7
8	☐	100000.00	101542.38	57834187.47	114.5919	A	1.0
9	☐	500000.00	499566.25	293570597.8	563.6099	A	0.5

$$y = 0.0011 * x + 0.0401$$

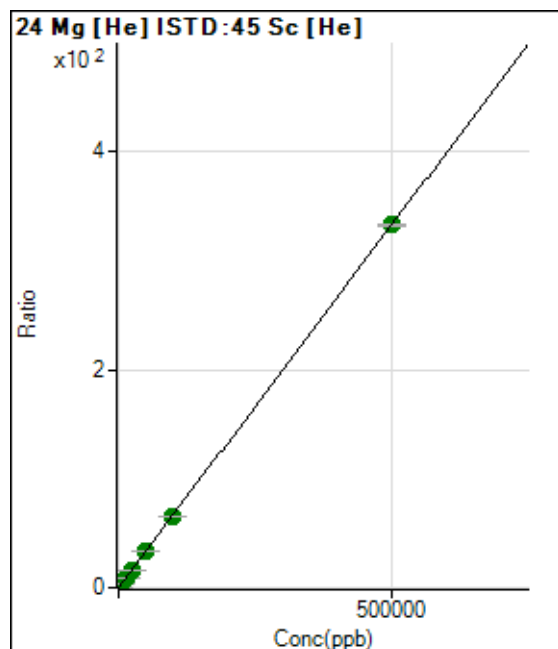
$$R = 1.0000$$

$$DL = 2.73$$

$$BEC = 35.57$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	433.34	0.0007	P	17.3
2	☐	50.000	53.907	21608.62	0.0366	P	0.7
3	☐	500.000	542.209	213837.23	0.3616	P	0.9
4	☐	5000.000	4921.509	1901034.43	3.2766	A	0.8
5	☐	12500.000	12464.080	4577700.04	8.2971	A	0.5
6	☐	25000.000	24972.926	8680972.16	16.6232	A	0.3
7	☐	50000.000	49832.431	16674480.31	33.1702	A	0.2
8	☐	100000.00	98580.375	33117252.84	65.6178	A	0.8
9	☐	500000.00	500303.67	173457144.0	333.0130	A	0.6

$$y = 6.6562\text{E-}004 * x + 7.3503\text{E-}004$$

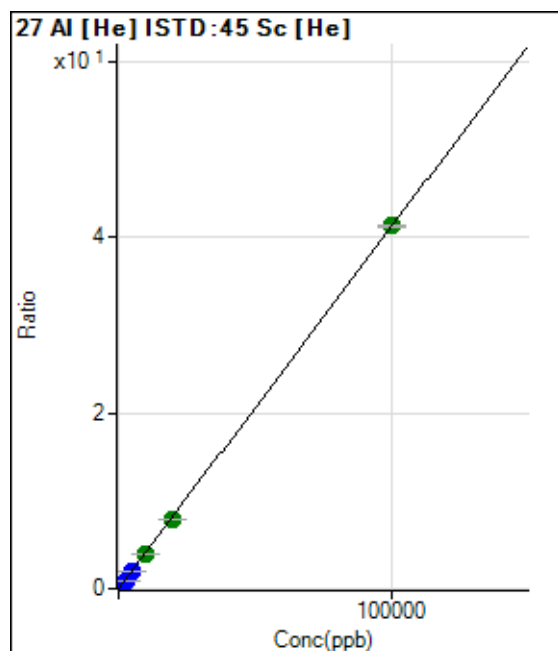
$$R = 1.0000$$

$$DL = 0.5727$$

$$BEC = 1.104$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0001	P	25.6
2	☐	2.000	2.254	627.80	0.0011	P	4.9
3	☐	20.000	19.644	4860.81	0.0082	P	3.9
4	☐	1000.000	938.183	224149.82	0.3864	P	0.7
5	☐	2500.000	2353.568	534652.96	0.9690	P	0.7
6	☐	5000.000	4691.250	1008598.11	1.9314	P	0.4
7	☐	10000.000	9729.681	2013571.07	4.0055	A	0.7
8	☐	20000.000	19283.549	4006651.54	7.9386	A	0.5
9	☐	100000.00	100190.03	21483488.01	41.2452	A	0.6

$$y = 4.1167\text{E-}004 * x + 1.3563\text{E-}004$$

$$R = 1.0000$$

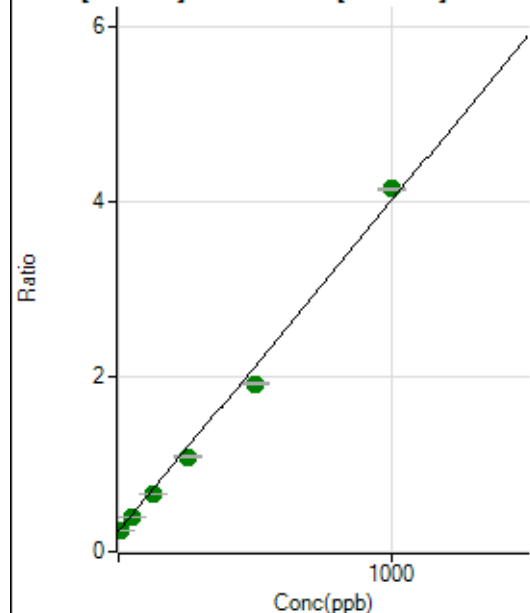
$$DL = 0.2526$$

$$BEC = 0.3295$$

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	1488223.26	0.2345	A	2.4
2	☐	1.000	1.836	1530389.84	0.2414	A	2.9
3	☐	10.000	2.780	1567925.20	0.2450	A	2.1
4	☐	50.000	44.741	2555371.09	0.4038	A	1.6
5	☐	125.000	112.004	3984485.91	0.6582	A	0.6
6	☐	250.000	225.237	6151664.77	1.0866	A	1.2
7	☐	500.000	445.686	10420086.51	1.9205	A	0.7
8	☐	1000.000	1035.307	22423068.28	4.1510	A	0.2
9	☐			811324.39	0.1488	P	2.1

$$y = 0.0038 * x + 0.2345$$

$$R = 0.9977$$

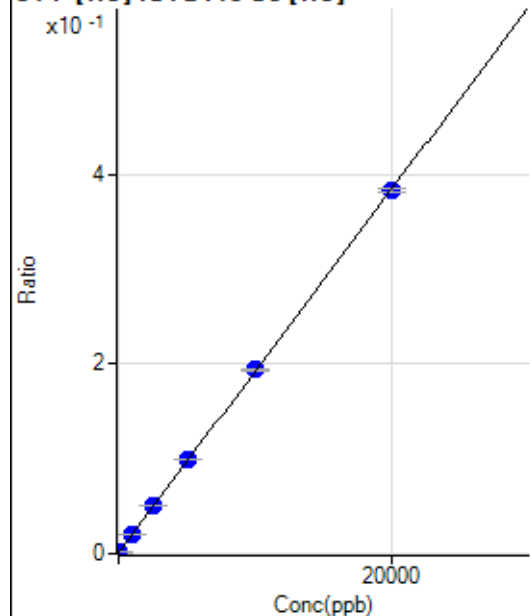
$$DL = 4.496$$

$$BEC = 61.99$$

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	-10.735	392.23	0.0007	P	20.8
2	☐	0.000	-12.826	368.90	0.0006	P	4.3
3	☐	0.000	23.562	782.25	0.0013	P	9.5
4	☐	1000.000	1027.711	11928.07	0.0206	P	0.2
5	☐	2500.000	2603.326	27999.01	0.0507	P	1.9
6	☐	5000.000	5135.014	51829.62	0.0992	P	0.8
7	☐	10000.000	10071.030	97428.39	0.1938	P	0.4
8	☐	20000.000	19916.431	193008.38	0.3824	P	1.2
9	☐			410.01	0.0008	P	4.9

$$y = 1.9158E-005 * x + 8.7079E-004$$

$$R = 1.0000$$

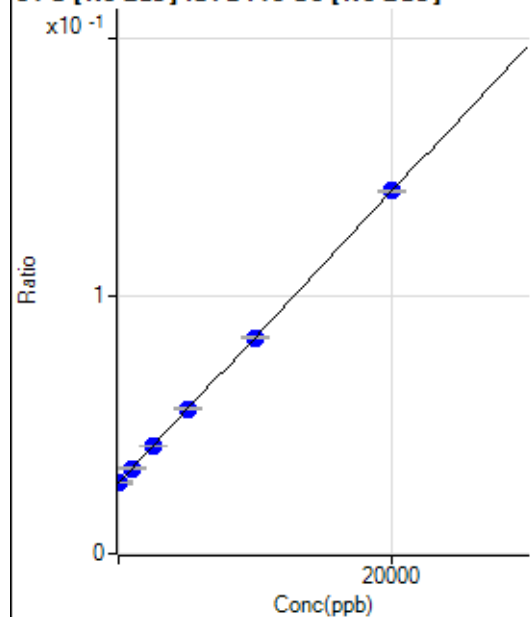
$$DL = 15.17$$

$$BEC = 45.45$$

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	44.243	176367.97	0.0278	P	1.8
2	☐	0.000	-23.921	173648.82	0.0274	P	2.1
3	☐	0.000	-20.322	175503.67	0.0274	P	0.7
4	☐	1000.000	980.659	209465.37	0.0331	P	1.1
5	☐	2500.000	2493.878	252221.31	0.0417	P	0.8
6	☐	5000.000	5047.364	317809.86	0.0561	P	1.1
7	☐	10000.000	9931.424	454694.02	0.0838	P	0.7
8	☐	20000.000	20024.179	761561.67	0.1410	P	0.6
9	☐			139672.61	0.0256	P	1.5

$$y = 5.6654E-006 * x + 0.0275$$

R = 1.0000

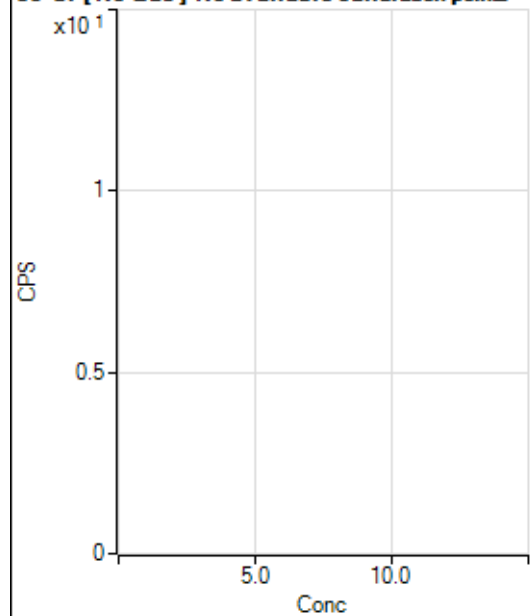
DL = 223.9

BEC = 4861

Weight: <None>

Min Conc: 0

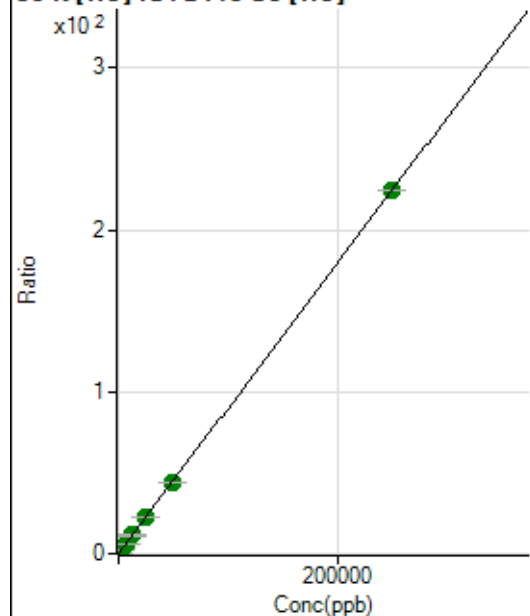
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	54826.08	0.0930	P	1.1
2	☐	50.000	55.612	84280.36	0.1428	P	0.3
3	☐	500.000	548.317	345235.21	0.5839	P	1.6
4	☐	2500.000	2542.511	1374543.58	2.3691	A	0.8
5	☐	6250.000	6326.538	3176123.01	5.7566	A	0.1
6	☐	12500.000	12515.688	5899628.53	11.2972	A	0.3
7	☐	25000.000	24730.324	11175889.14	22.2319	A	0.3
8	☐	50000.000	49390.825	22362854.67	44.3083	A	0.5
9	☐	250000.00	250145.58	116689990.4	224.0266	A	0.1

$$y = 8.9521\text{E-}004 * x + 0.0930$$

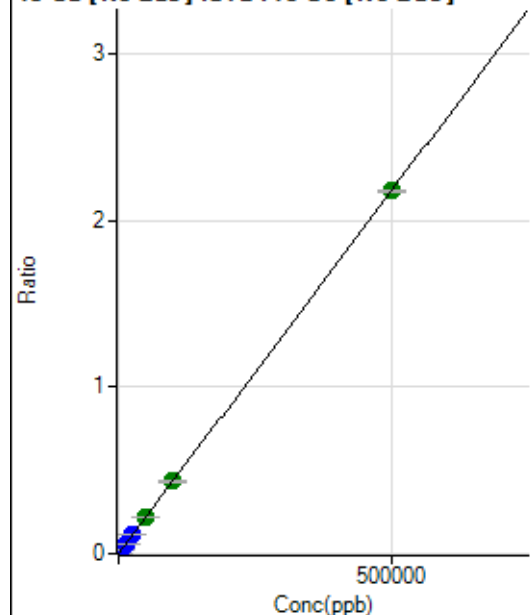
$$R = 1.0000$$

$$DL = 3.398$$

$$BEC = 103.9$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	587.79	0.0001	P	8.2
2	☐	50.000	55.696	2123.50	0.0003	P	4.0
3	☐	500.000	550.006	15915.11	0.0025	P	1.7
4	☐	5000.000	5134.552	142061.44	0.0224	P	2.1
5	☐	12500.000	12925.280	341155.05	0.0564	P	1.3
6	☐	25000.000	26143.278	644863.27	0.1139	P	1.9
7	☐	50000.000	50281.758	1188150.97	0.2190	A	0.9
8	☐	100000.00	99927.461	2350355.94	0.4351	A	1.3
9	☐	500000.00	499917.14	11865665.80	2.1764	A	0.7

$$y = 4.3534E-006 * x + 9.2562E-005$$

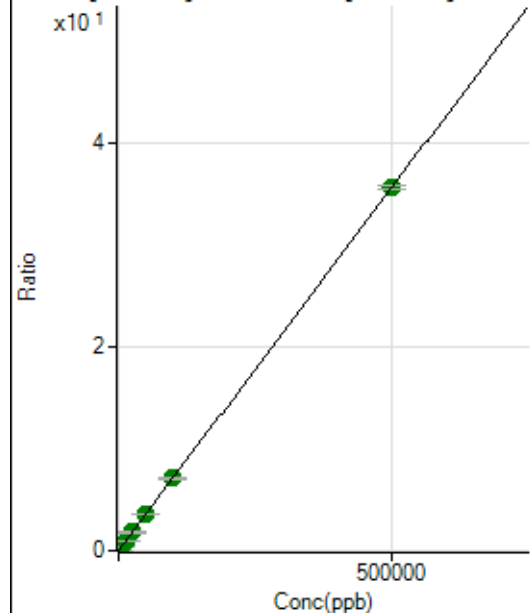
$$R = 1.0000$$

$$DL = 5.259$$

$$BEC = 21.26$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19996.80	0.0031	P	2.8
2	☐	50.000	58.065	46099.88	0.0073	P	2.1
3	☐	500.000	550.643	270510.95	0.0423	P	1.3
4	☐	5000.000	4969.422	2254759.84	0.3562	A	0.5
5	☐	12500.000	12432.130	5365476.55	0.8864	A	1.5
6	☐	25000.000	25210.108	10158182.56	1.7942	A	1.6
7	☐	50000.000	50292.713	19403435.54	3.5762	A	0.1
8	☐	100000.00	99775.569	38307567.49	7.0918	A	1.0
9	☐	500000.00	500007.06	193674941.5	35.5264	A	1.1

$$y = 7.1046E-005 * x + 0.0031$$

$$R = 1.0000$$

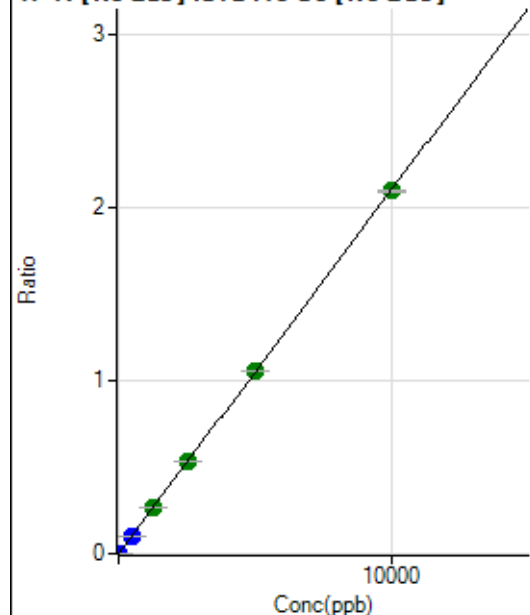
$$DL = 3.67$$

$$BEC = 44.33$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	80.00	0.0000	P	13.7
2	☐	0.500	0.555	817.81	0.0001	P	4.7
3	☐	5.000	5.197	7060.60	0.0011	P	0.2
4	☐	500.000	491.902	653389.15	0.1032	P	1.4
5	☐	1250.000	1250.486	1588530.76	0.2624	A	0.5
6	☐	2500.000	2534.019	3010596.07	0.5318	A	1.6
7	☐	5000.000	5039.363	5737628.94	1.0575	A	0.3
8	☐	10000.000	9972.158	11303683.72	2.0926	A	0.9
9	☐			1953.49	0.0004	P	5.0

$$y = 2.0984E-004 * x + 1.2588E-005$$

$$R = 1.0000$$

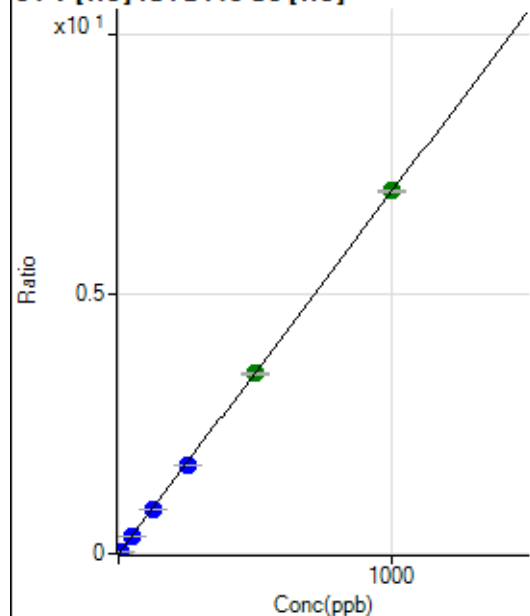
$$DL = 0.02457$$

$$BEC = 0.05999$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23.33	0.0000	P	14.1
2	☐	0.500	0.520	2163.51	0.0037	P	1.3
3	☐	5.000	5.300	21895.95	0.0370	P	0.7
4	☐	50.000	48.745	197391.42	0.3402	P	1.1
5	☐	125.000	122.718	472565.16	0.8565	P	0.2
6	☐	250.000	244.995	892944.29	1.7099	P	0.4
7	☐	500.000	497.358	1744946.33	3.4712	A	0.5
8	☐	1000.000	1002.918	3532978.11	6.9996	A	0.7
9	☐			860.03	0.0017	P	2.9

$$y = 0.0070 * x + 3.9582E-005$$

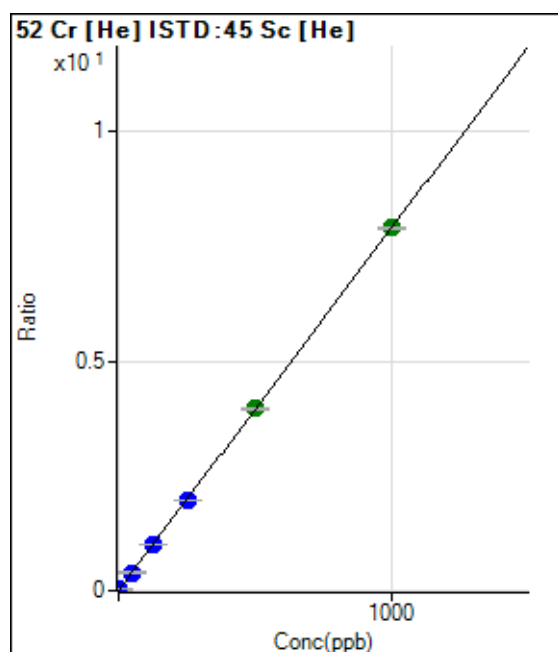
$$R = 1.0000$$

$$DL = 0.002397$$

$$BEC = 0.005671$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3330.40	0.0057	P	1.0
2	☐	0.200	0.212	4323.99	0.0073	P	1.8
3	☐	2.000	2.168	13458.32	0.0228	P	1.5
4	☐	50.000	49.540	230055.71	0.3965	P	1.1
5	☐	125.000	124.731	546119.34	0.9898	P	0.3
6	☐	250.000	247.929	1024557.85	1.9619	P	0.4
7	☐	500.000	500.708	1988893.13	3.9565	A	0.6
8	☐	1000.000	1000.220	3986090.74	7.8979	A	0.7
9	☐			8110.42	0.0156	P	11.4

$$y = 0.0079 * x + 0.0057$$

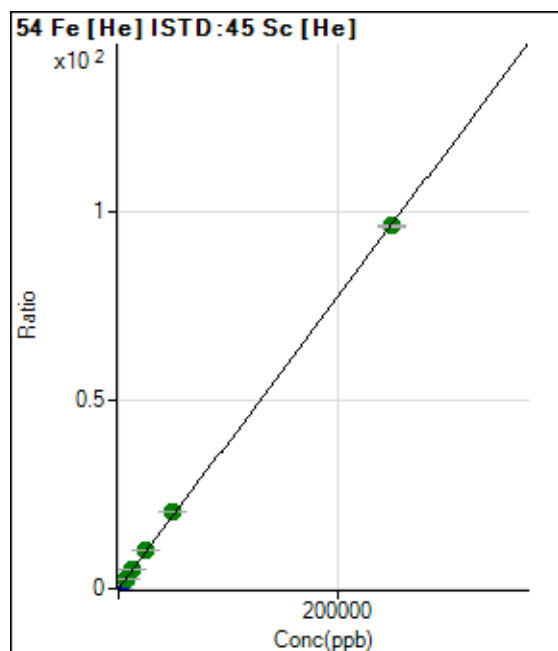
$$R = 1.0000$$

$$DL = 0.02165$$

$$BEC = 0.7162$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2864.74	0.0049	P	1.8
2	☐	5.000	6.524	4352.89	0.0074	P	5.0
3	☐	50.000	58.330	16168.78	0.0273	P	1.3
4	☐	2500.000	2694.259	605344.62	1.0434	P	0.6
5	☐	6250.000	6651.484	1417313.59	2.5688	A	0.8
6	☐	12500.000	13399.187	2699769.92	5.1698	A	0.7
7	☐	25000.000	26545.223	5146177.53	10.2372	A	0.4
8	☐	50000.000	52614.169	10238490.82	20.2859	A	0.4
9	☐	250000.00	249265.70	50049790.92	96.0886	A	0.6

$$y = 3.8547E-004 * x + 0.0049$$

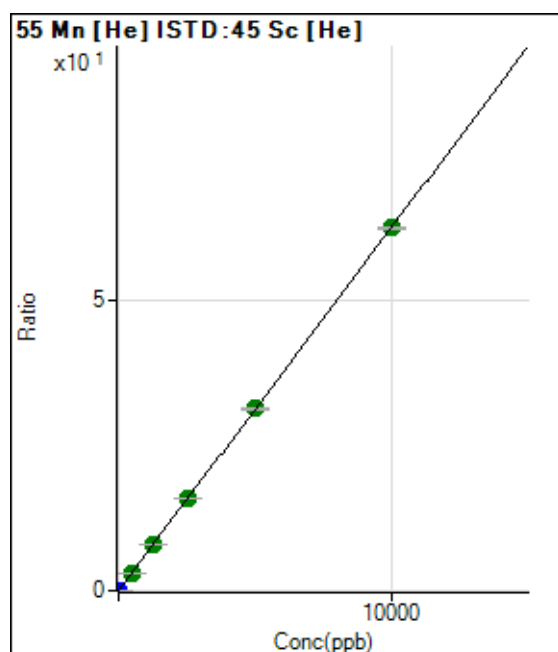
$$R = 0.9999$$

$$DL = 0.6797$$

$$BEC = 12.61$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.34	0.0007	P	8.6
2	☒	0.100					
3	☐	1.000	1.080	4390.69	0.0074	P	5.5
4	☐	500.000	493.750	1789783.74	3.0850	A	0.3
5	☐	1250.000	1251.265	4312743.37	7.8169	A	0.6
6	☐	2500.000	2526.560	8242332.93	15.7832	A	0.6
7	☐	5000.000	5005.628	15718719.63	31.2690	A	0.6
8	☐	10000.000	9990.700	31498016.47	62.4089	A	0.6
9	☐			17383.54	0.0334	P	3.4

$$y = 0.0062 * x + 6.8437E-004$$

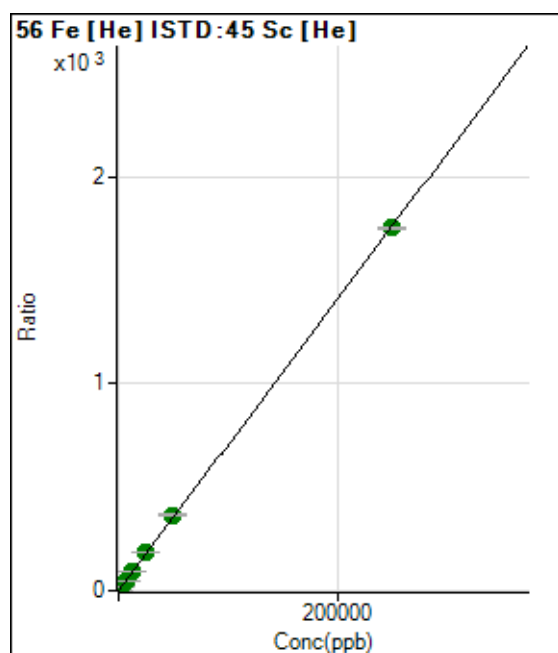
$$R = 1.0000$$

$$DL = 0.02823$$

$$BEC = 0.1096$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22837.45	0.0387	P	0.8
2	☐	5.000	5.949	47548.21	0.0806	P	1.1
3	☐	50.000	57.332	261242.85	0.4418	P	0.8
4	☐	2500.000	2594.632	10604989.21	18.2794	A	0.7
5	☐	6250.000	6570.533	25507071.01	46.2306	A	0.1
6	☐	12500.000	13148.632	48292846.50	92.4755	A	0.3
7	☐	25000.000	26213.608	92658494.17	184.3242	A	0.6
8	☐	50000.000	52071.145	184770257.2	366.1065	A	1.3
9	☐	250000.00	249423.01	913363230.8	1,753.518	A	0.3

$$y = 0.0070 * x + 0.0387$$

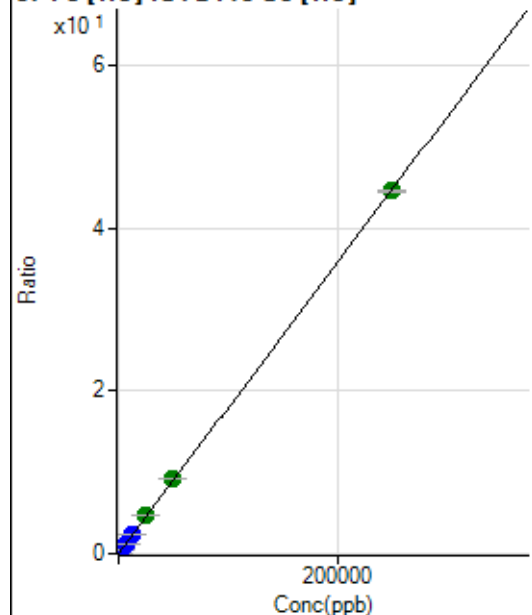
$$R = 1.0000$$

$$DL = 0.1289$$

$$BEC = 5.512$$

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	1811.24	0.0031	P	0.8
2	☐	5.000	7.811	2636.93	0.0045	P	2.6
3	☐	50.000	63.068	8475.80	0.0143	P	2.4
4	☐	2500.000	2622.829	273511.50	0.4714	P	0.6
5	☐	6250.000	6634.492	655359.96	1.1878	P	0.2
6	☐	12500.000	13248.968	1237147.74	2.3690	P	0.2
7	☐	25000.000	26087.267	2343377.62	4.6616	A	0.2
8	☐	50000.000	51283.294	4623507.67	9.1610	A	0.9
9	☐	250000.00	249586.32	23216938.27	44.5730	A	0.4

$$y = 1.7858\text{E-}004 * x + 0.0031$$

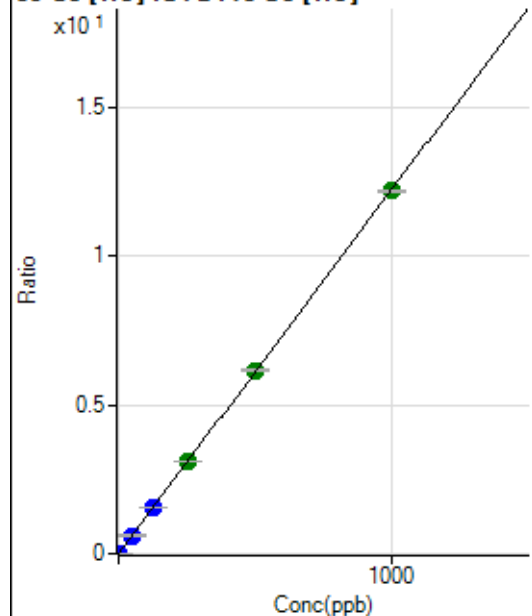
R = 1.0000

DL = 0.3995

BEC = 17.21

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	235.56	0.0004	P	12.0
2	☐	0.100	0.113	1052.27	0.0018	P	1.2
3	☐	1.000	1.123	8346.84	0.0141	P	2.0
4	☐	50.000	50.137	355503.75	0.6128	P	0.7
5	☐	125.000	126.443	852293.08	1.5448	P	0.6
6	☐	250.000	254.307	1622297.96	3.1065	A	0.3
7	☐	500.000	503.256	3090156.97	6.1472	A	1.3
8	☐	1000.000	997.108	6146853.45	12.1792	A	0.7
9	☐			18431.39	0.0354	P	0.7

$$y = 0.0122 * x + 3.9967\text{E-}004$$

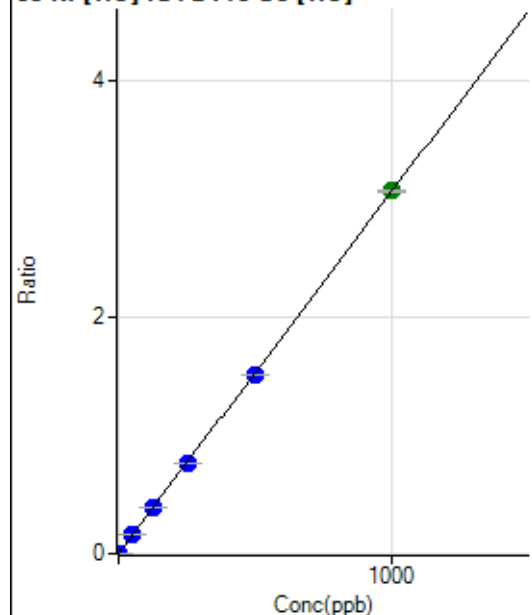
R = 1.0000

DL = 0.01174

BEC = 0.03272

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	971.15	0.0016	P	6.6
2	☒	0.100					
3	☐	1.000	1.110	2982.54	0.0050	P	2.2
4	☐	50.000	50.755	91046.24	0.1569	P	0.7
5	☐	125.000	127.608	216310.36	0.3921	P	0.6
6	☐	250.000	251.251	402291.94	0.7703	P	0.2
7	☐	500.000	492.554	758372.64	1.5086	P	0.2
8	☐	1000.000	1003.046	1549675.95	3.0705	A	0.5
9	☐			8072.25	0.0155	P	1.0

$$y = 0.0031 * x + 0.0016$$

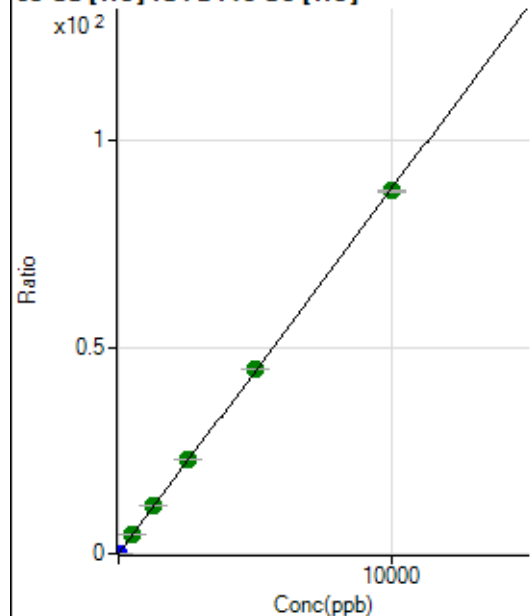
$$R = 1.0000$$

$$DL = 0.1074$$

$$BEC = 0.5385$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3240.38	0.0055	P	6.2
2	☐	0.200	0.229	4437.37	0.0075	P	4.1
3	☐	2.000	2.084	14144.55	0.0239	P	1.2
4	☐	500.000	517.948	2660168.52	4.5852	A	1.0
5	☐	1250.000	1296.899	6330017.13	11.4728	A	0.8
6	☐	2500.000	2580.857	11919908.99	22.8256	A	1.0
7	☐	5000.000	5056.809	22479445.50	44.7182	A	0.9
8	☐	10000.000	9944.621	44382097.12	87.9366	A	0.7
9	☐			13754.19	0.0264	P	1.6

$$y = 0.0088 * x + 0.0055$$

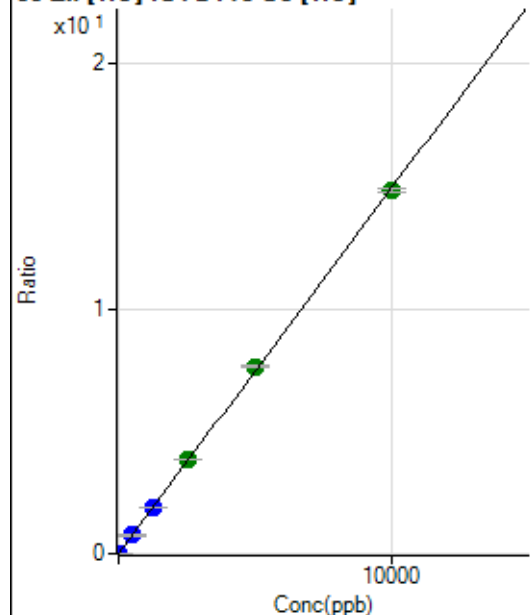
$$R = 0.9999$$

$$DL = 0.1159$$

$$BEC = 0.6218$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	291.12	0.0005	P	11.4
2	☒	0.500					
3	☐	5.000	5.457	5104.26	0.0086	P	2.2
4	☐	500.000	501.305	434060.79	0.7482	P	1.0
5	☐	1250.000	1273.626	1048326.89	1.9001	P	0.6
6	☐	2500.000	2561.159	1995123.70	3.8205	A	0.1
7	☐	5000.000	5111.082	3832345.78	7.6237	A	0.8
8	☐	10000.000	9926.151	7472138.64	14.8053	A	1.1
9	☐			11142.01	0.0214	P	1.9

$$y = 0.0015 * x + 4.9393E-004$$

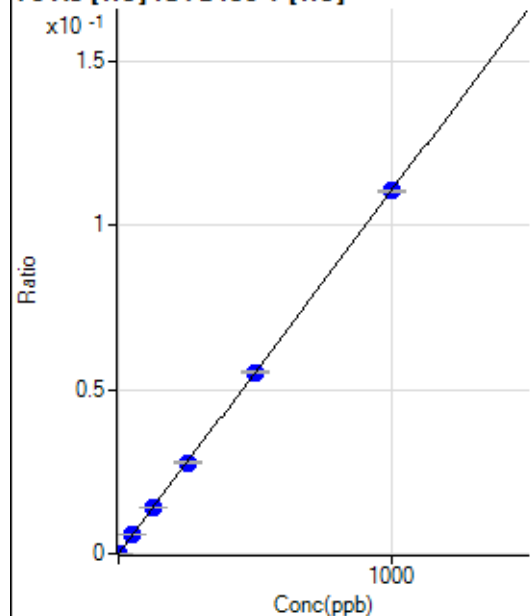
$$R = 0.9999$$

$$DL = 0.1131$$

$$BEC = 0.3312$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	21.7
2	☐	0.100	0.129	95.56	0.0000	P	8.8
3	☐	1.000	1.159	711.14	0.0001	P	10.6
4	☐	50.000	51.069	30236.32	0.0057	P	0.5
5	☐	125.000	127.324	73071.99	0.0141	P	1.6
6	☐	250.000	250.826	138383.15	0.0278	P	1.1
7	☐	500.000	499.876	265406.44	0.0553	P	1.3
8	☐	1000.000	999.511	529656.58	0.1107	P	0.9
9	☐			330.01	0.0001	P	23.5

$$y = 1.1070E-004 * x + 3.5198E-006$$

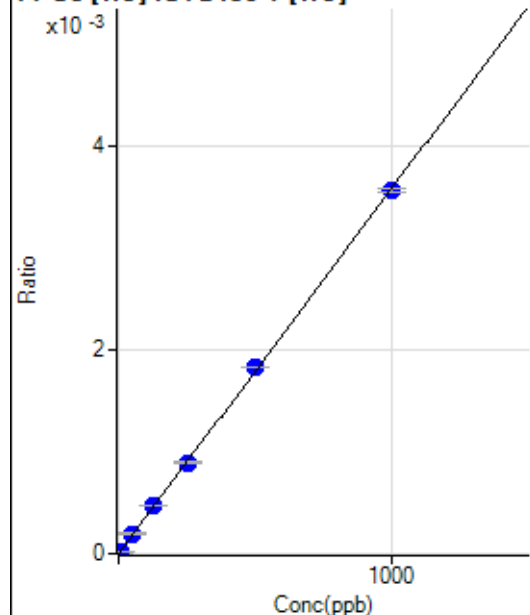
$$R = 1.0000$$

$$DL = 0.0207$$

$$BEC = 0.03179$$

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	☐	0.500	0.464	8.89	0.0000	P	21.6
3	☐	5.000	5.653	108.89	0.0000	P	18.9
4	☐	50.000	54.616	1043.38	0.0002	P	3.7
5	☐	125.000	132.150	2448.01	0.0005	P	2.8
6	☐	250.000	249.402	4441.82	0.0009	P	3.4
7	☐	500.000	509.303	8729.31	0.0018	P	0.2
8	☐	1000.000	994.370	17009.84	0.0036	P	1.2
9	☐			6.67	0.0000	P	49.7

$$y = 3.5737\text{E-}006 * x + 0.0000\text{E+}000$$

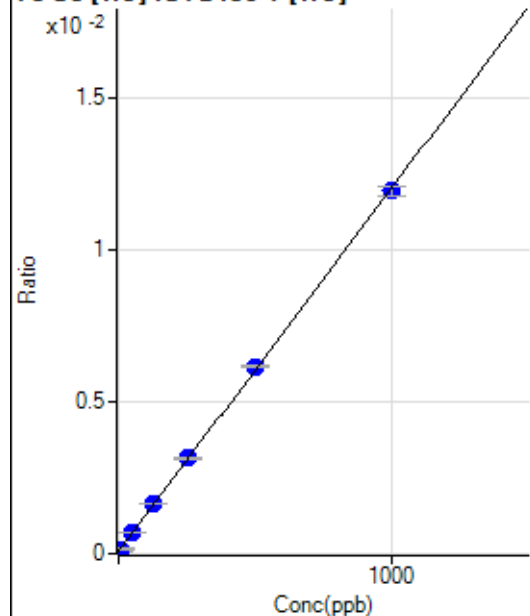
$$R = 0.9999$$

$$DL = 0$$

$$BEC = 0$$

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	398.90	0.0001	P	9.4
2	☐	0.500	0.535	432.23	0.0001	P	8.8
3	☐	5.000	6.307	806.70	0.0001	P	11.8
4	☐	50.000	51.128	3664.93	0.0007	P	2.6
5	☐	125.000	130.500	8475.82	0.0016	P	2.1
6	☐	250.000	256.199	15642.79	0.0031	P	0.6
7	☐	500.000	509.249	29572.91	0.0062	P	0.8
8	☐	1000.000	993.075	57214.46	0.0120	P	2.7
9	☐			340.01	0.0001	P	7.8

$$y = 1.1963\text{E-}005 * x + 7.4162\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.749$$

$$BEC = 6.199$$

Weight: <None>

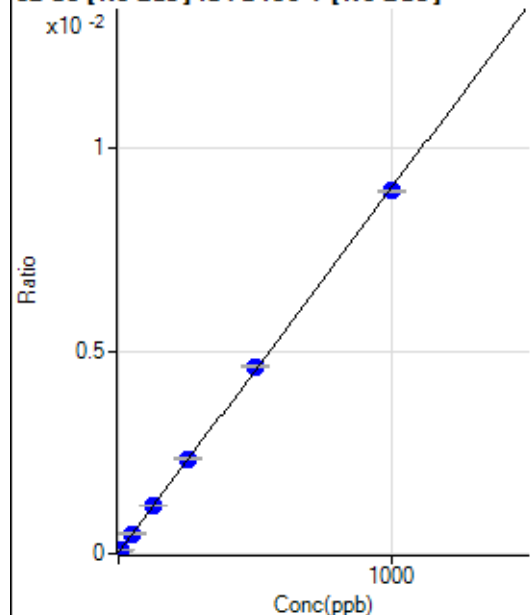
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14142.44		P	1.6
2	☐			13396.15		P	1.0
3	☐			13626.39		P	2.4
4	☐			13674.22		P	1.5
5	☐			12685.55		P	0.8
6	☐			11958.28		P	2.6
7	☐			11126.50		P	1.3
8	☐			11385.60		P	3.3
9	☐			12097.27		P	0.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			157.78		P	14.1
2	☐			128.89		P	12.2
3	☐			131.11		P	10.6
4	☐			157.78		P	18.5
5	☐			114.45		P	26.4
6	☐			121.12		P	5.7
7	☐			120.00		P	22.0
8	☐			115.55		P	26.2
9	☐			133.34		P	13.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	476.97	0.0000	P	4.0
2	☒	0.500					
3	☐	5.000	6.096	1491.58	0.0001	P	3.9
4	☐	50.000	51.969	9160.72	0.0005	P	2.1
5	☐	125.000	130.795	21740.33	0.0012	P	0.4
6	☐	250.000	257.746	40708.52	0.0023	P	0.5
7	☐	500.000	510.248	77129.42	0.0046	P	1.3
8	☐	1000.000	992.111	149497.70	0.0089	P	0.7
9	☐			616.27	0.0000	P	5.2

$$y = 8.9931E-006 * x + 2.5639E-005$$

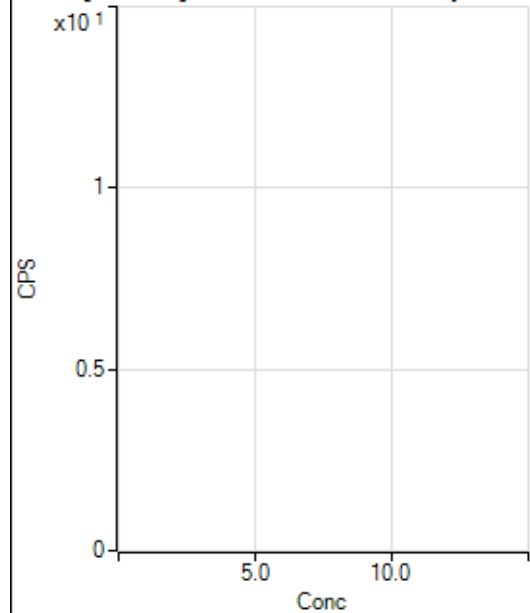
$$R = 0.9999$$

$$DL = 0.3405$$

$$BEC = 2.851$$

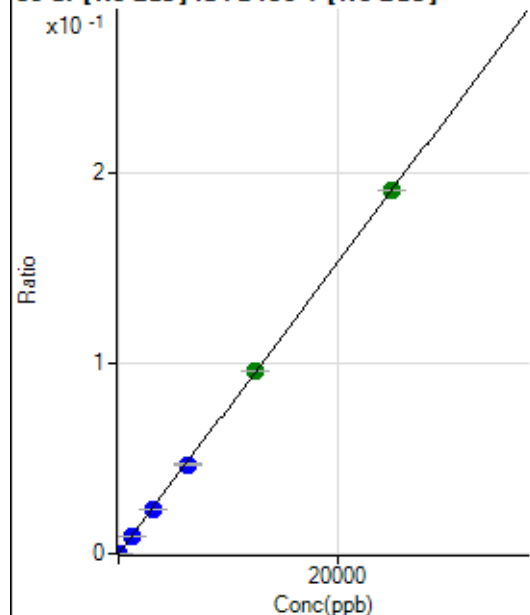
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			222.23		P	3.5
2	☐			188.89		P	15.0
3	☐			178.89		P	13.7
4	☐			212.22		P	9.2
5	☐			176.67		P	5.0
6	☐			164.45		P	16.4
7	☐			174.45		P	6.7
8	☐			178.89		P	15.5
9	☐			183.34		P	23.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	351.12	0.0000	P	4.2
2	☐	0.100	2.047	638.91	0.0000	P	4.9
3	☐	1.000	26.443	4095.06	0.0002	P	3.5
4	☐	1250.000	1219.866	173453.24	0.0093	P	1.2
5	☐	3125.000	3076.793	425357.68	0.0235	P	1.2
6	☐	6250.000	6145.573	815559.15	0.0470	P	1.4
7	☐	12500.000	12592.017	1607784.25	0.0962	A	0.7
8	☐	25000.000	24987.630	3188742.94	0.1909	A	0.1
9	☐			9480.90	0.0006	P	4.3

$$y = 7.6370\text{E-}006 * x + 1.8877\text{E-}005$$

$$R = 1.0000$$

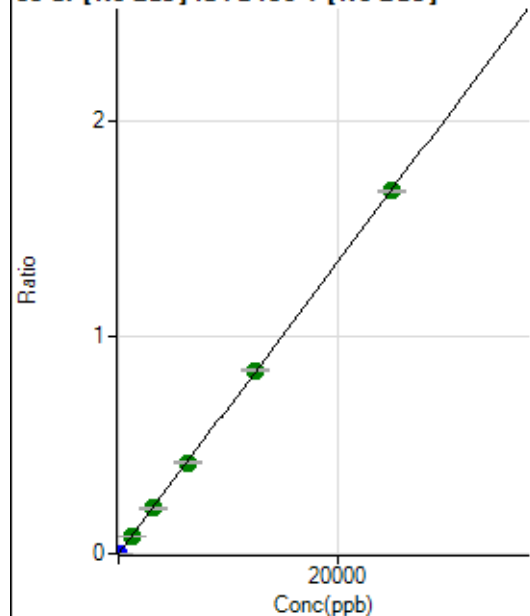
$$DL = 0.3081$$

$$BEC = 2.472$$

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	224.45	0.0000	P	3.7
2	☐	0.100	2.692	3571.58	0.0002	P	1.6
3	☐	1.000	26.230	32883.43	0.0018	P	0.8
4	☐	1250.000	1236.067	1542638.64	0.0830	A	0.9
5	☐	3125.000	3124.332	3795159.18	0.2098	A	1.4
6	☐	6250.000	6263.806	7306787.32	0.4206	A	1.2
7	☐	12500.000	12594.021	14137047.01	0.8457	A	1.0
8	☐	25000.000	24950.317	27994420.97	1.6755	A	0.2
9	☐			83146.53	0.0051	P	0.8

$$y = 6.7154\text{E-}005 * x + 1.2060\text{E-}005$$

$$R = 1.0000$$

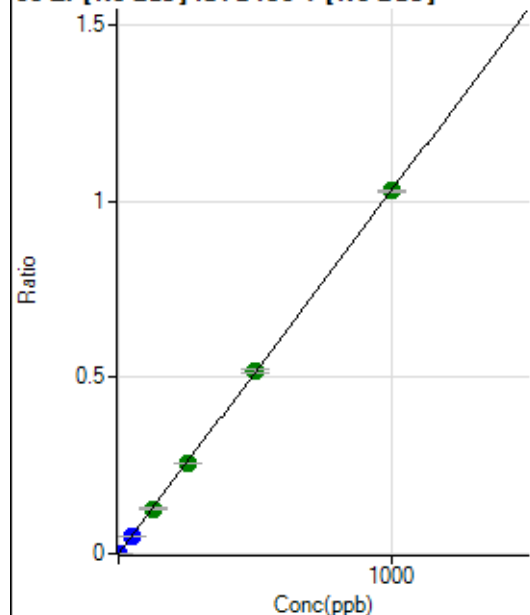
$$DL = 0.01977$$

$$BEC = 0.1796$$

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	1723.45	0.0001	P	1.8
2	☐	0.100	0.107	3753.85	0.0002	P	5.2
3	☐	1.000	1.043	21652.72	0.0012	P	2.5
4	☐	50.000	48.402	929214.85	0.0500	P	0.6
5	☐	125.000	124.187	2318209.57	0.1282	A	1.2
6	☐	250.000	249.057	4462991.60	0.2569	A	1.3
7	☐	500.000	502.382	8661379.66	0.5182	A	1.4
8	☐	1000.000	999.226	17218303.08	1.0306	A	0.7
9	☐			11950.50	0.0007	P	1.3

$$y = 0.0010 * x + 9.2639E-005$$

$$R = 1.0000$$

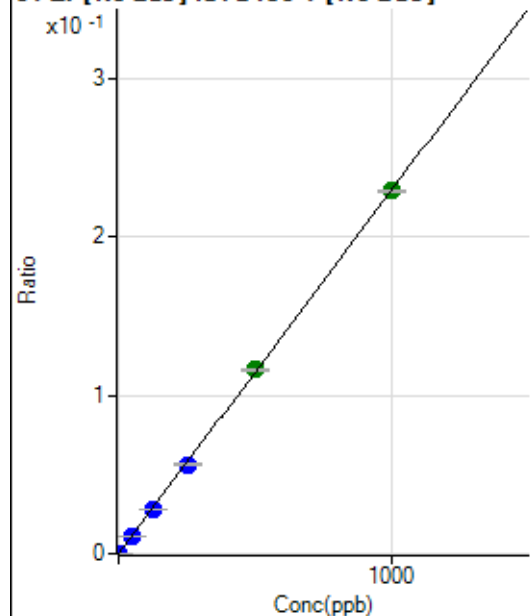
$$DL = 0.004978$$

$$BEC = 0.08983$$

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	174.45	0.0000	P	4.5
2	☐	0.100	0.090	554.46	0.0000	P	5.5
3	☐	1.000	1.026	4539.63	0.0002	P	4.5
4	☐	50.000	48.845	208417.40	0.0112	P	0.8
5	☐	125.000	122.670	509266.31	0.0282	P	0.6
6	☐	250.000	246.028	980658.42	0.0565	P	2.0
7	☐	500.000	505.958	1940590.27	0.1161	A	0.9
8	☐	1000.000	998.363	3827303.28	0.2291	A	0.4
9	☐			2514.69	0.0002	P	8.3

$$y = 2.2944E-004 * x + 9.3764E-006$$

$$R = 1.0000$$

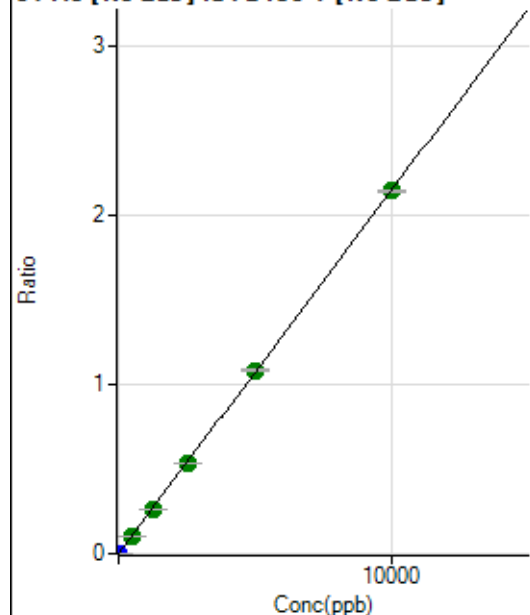
$$DL = 0.005495$$

$$BEC = 0.04087$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	494.46	0.0000	P	10.7
2	☐	0.500	0.624	2969.22	0.0002	P	7.7
3	☐	5.000	6.055	24560.68	0.0013	P	1.4
4	☐	500.000	494.893	1971913.46	0.1061	A	1.3
5	☐	1250.000	1240.036	4809191.80	0.2659	A	0.4
6	☐	2500.000	2491.220	9277364.37	0.5341	A	1.0
7	☐	5000.000	5039.961	18060660.98	1.0805	A	1.3
8	☐	10000.000	9983.715	35760430.58	2.1404	A	0.6
9	☐			10062.43	0.0006	P	4.5

$$y = 2.1438\text{E-}004 * x + 2.6553\text{E-}005$$

$$R = 1.0000$$

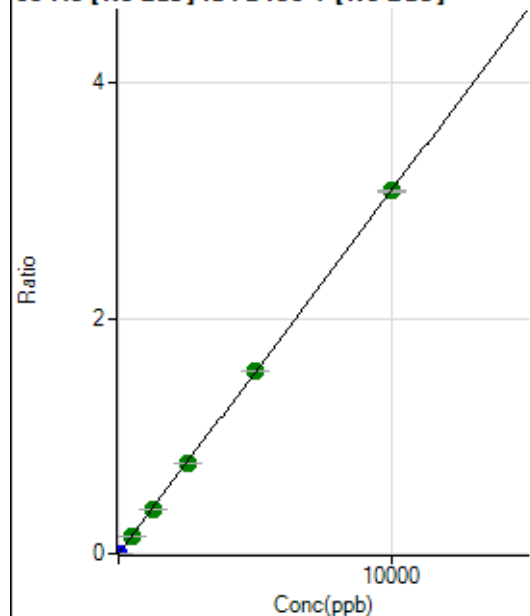
$$DL = 0.03971$$

$$BEC = 0.1239$$

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	396.67	0.0000	P	2.7
2	☐	0.500	0.543	3500.45	0.0002	P	1.2
3	☐	5.000	5.094	29554.28	0.0016	P	1.6
4	☐	500.000	494.149	2835617.49	0.1526	A	0.4
5	☐	1250.000	1239.592	6923643.92	0.3828	A	0.6
6	☐	2500.000	2495.772	13386155.22	0.7706	A	1.0
7	☐	5000.000	5020.847	25914556.84	1.5503	A	0.5
8	☐	10000.000	9992.227	51549217.01	3.0853	A	0.5
9	☐			9784.46	0.0006	P	4.2

$$y = 3.0877\text{E-}004 * x + 2.1315\text{E-}005$$

$$R = 1.0000$$

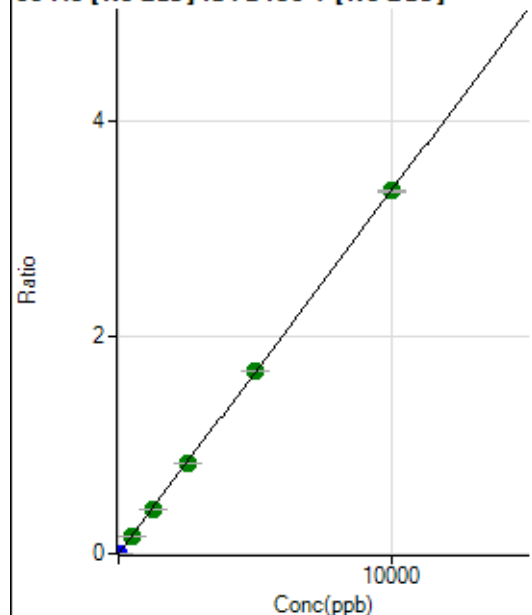
$$DL = 0.005517$$

$$BEC = 0.06903$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	516.68	0.0000	P	12.9
2	☐	0.500	0.555	3962.79	0.0002	P	3.0
3	☐	5.000	5.246	33159.84	0.0018	P	2.0
4	☐	500.000	492.682	3073661.21	0.1654	A	0.2
5	☐	1250.000	1236.640	7509036.97	0.4151	A	1.1
6	☐	2500.000	2495.370	14550364.78	0.8377	A	1.2
7	☐	5000.000	5026.178	28202468.75	1.6872	A	0.7
8	☐	10000.000	9990.104	56029656.94	3.3535	A	0.2
9	☐			19340.72	0.0012	P	2.6

$$y = 3.3568E-004 * x + 2.7741E-005$$

$$R = 1.0000$$

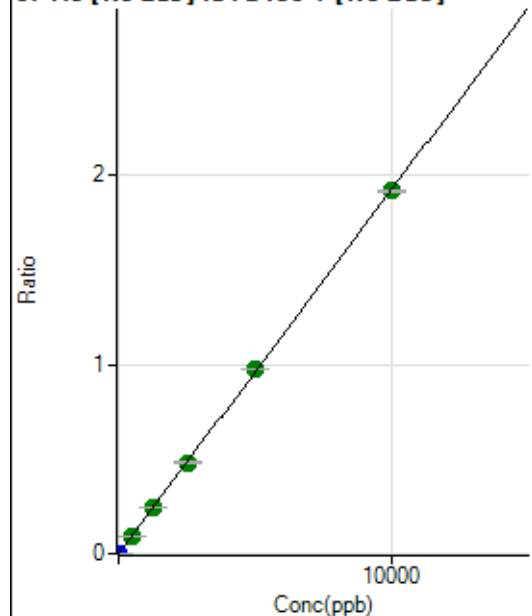
$$DL = 0.03208$$

$$BEC = 0.08264$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	286.67	0.0000	P	7.4
2	☐	0.500	0.527	2162.40	0.0001	P	5.4
3	☐	5.000	5.211	18858.93	0.0010	P	2.8
4	☐	500.000	495.244	1769536.69	0.0952	A	0.6
5	☐	1250.000	1248.064	4340547.23	0.2400	A	0.8
6	☐	2500.000	2502.278	8356607.38	0.4811	A	1.7
7	☐	5000.000	5062.265	16269423.37	0.9733	A	0.2
8	☐	10000.000	9968.778	32022321.75	1.9166	A	0.3
9	☐			6069.09	0.0004	P	6.6

$$y = 1.9226E-004 * x + 1.5417E-005$$

$$R = 1.0000$$

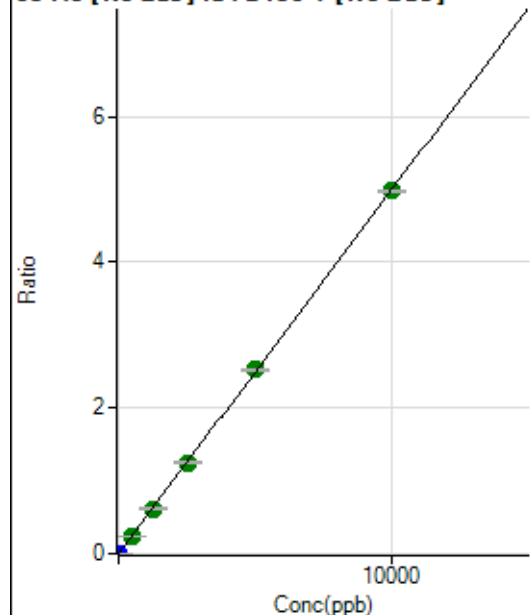
$$DL = 0.01776$$

$$BEC = 0.08019$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	718.91	0.0000	P	9.3
2	☐	0.500	0.539	5688.94	0.0003	P	5.8
3	☐	5.000	5.161	48437.71	0.0026	P	1.4
4	☐	500.000	493.734	4576644.31	0.2463	A	0.3
5	☐	1250.000	1237.163	11162027.33	0.6171	A	1.0
6	☐	2500.000	2496.632	21630014.26	1.2453	A	1.5
7	☐	5000.000	5051.825	42119081.60	2.5197	A	0.7
8	☐	10000.000	9976.847	83140003.76	4.9761	A	0.5
9	☐			14978.93	0.0009	P	8.0

$$y = 4.9876\text{E-}004 * x + 3.8663\text{E-}005$$

$$R = 1.0000$$

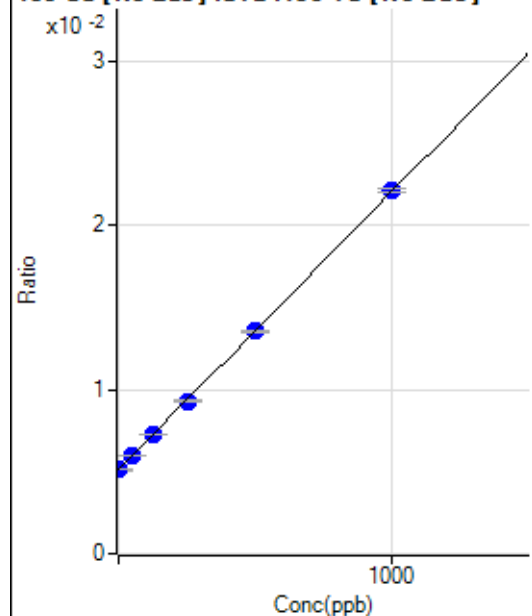
$$DL = 0.02156$$

$$BEC = 0.07752$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84272.54	0.0051	P	1.7
2	☐	0.100	1.980	83731.68	0.0052	P	0.4
3	☐	1.000	0.323	84077.17	0.0051	P	1.0
4	☐	50.000	52.141	99524.68	0.0060	P	0.4
5	☐	125.000	126.162	120217.57	0.0073	P	0.4
6	☐	250.000	245.091	152323.31	0.0093	P	0.8
7	☐	500.000	496.481	219898.19	0.0135	P	0.1
8	☐	1000.000	1002.735	356176.06	0.0221	P	1.0
9	☐			72040.76	0.0047	P	0.6

$$y = 1.6930\text{E-}005 * x + 0.0051$$

$$R = 1.0000$$

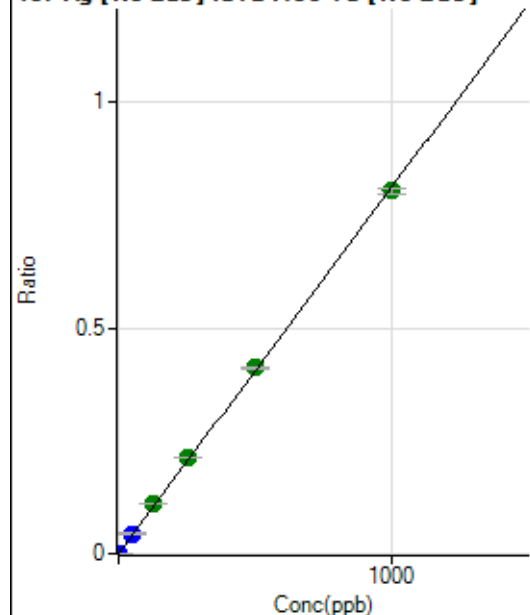
$$DL = 15.02$$

$$BEC = 303.1$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.45	0.0000	P	8.2
2	☐	0.100	0.115	1682.34	0.0001	P	5.6
3	☐	1.000	1.123	15074.60	0.0009	P	2.7
4	☐	50.000	54.944	737264.43	0.0446	P	1.6
5	☐	125.000	135.088	1811840.95	0.1095	A	1.3
6	☐	250.000	263.133	3501818.59	0.2134	A	0.9
7	☐	500.000	508.501	6697524.28	0.4123	A	1.1
8	☐	1000.000	990.958	12945134.67	0.8035	A	1.6
9	☐			3091.48	0.0002	P	7.4

$$y = 8.1086E-004 * x + 1.0620E-005$$

$$R = 0.9998$$

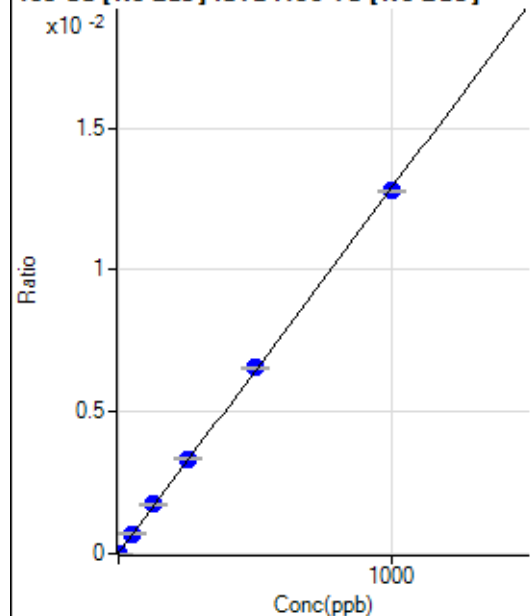
$$DL = 0.00324$$

$$BEC = 0.0131$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.78	0.0000	P	9.9
2	☐	0.100	0.122	211.12	0.0000	P	17.8
3	☐	1.000	1.022	402.23	0.0000	P	5.0
4	☐	50.000	54.354	11754.83	0.0007	P	2.5
5	☐	125.000	133.434	28578.16	0.0017	P	0.7
6	☐	250.000	258.358	54722.64	0.0033	P	1.8
7	☐	500.000	508.009	106322.60	0.0065	P	1.1
8	☐	1000.000	992.634	205874.23	0.0128	P	0.9
9	☐			225.56	0.0000	P	8.3

$$y = 1.2862E-005 * x + 1.1430E-005$$

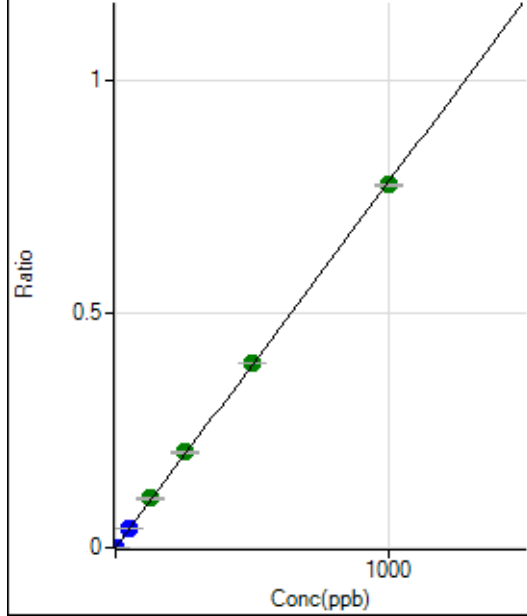
$$R = 0.9999$$

$$DL = 0.2636$$

$$BEC = 0.8887$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0000	P	17.5
2	☐	0.100	0.115	1516.76	0.0001	P	3.3
3	☐	1.000	1.111	14270.46	0.0009	P	2.9
4	☐	50.000	54.329	702642.33	0.0425	P	1.9
5	☐	125.000	134.508	1738949.49	0.1051	A	1.6
6	☐	250.000	262.360	3365632.93	0.2051	A	1.7
7	☐	500.000	505.846	6422736.29	0.3954	A	0.6
8	☐	1000.000	992.582	12499668.43	0.7759	A	0.9
9	☐			2786.96	0.0002	P	10.7

$$y = 7.8166E-004 * x + 3.6578E-006$$

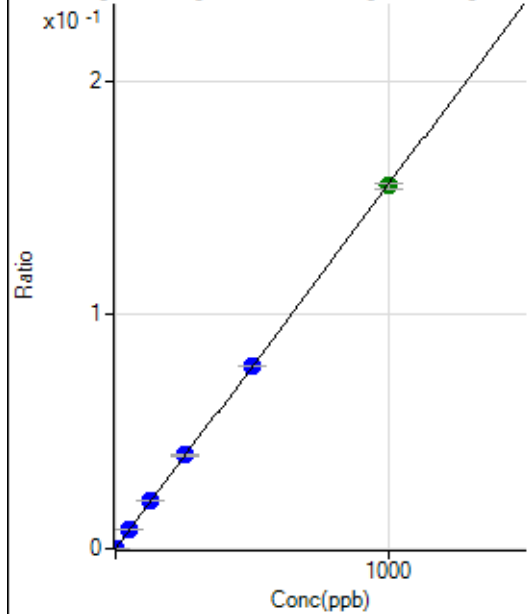
$$R = 0.9999$$

$$DL = 0.002455$$

$$BEC = 0.00468$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	335.47	0.0000	P	5.9
2	☒	0.100					
3	☐	1.000	1.224	3455.90	0.0002	P	2.6
4	☐	50.000	53.600	138560.47	0.0084	P	1.2
5	☐	125.000	133.006	343199.86	0.0208	P	1.9
6	☐	250.000	257.005	657739.75	0.0401	P	1.4
7	☐	500.000	501.903	1271038.57	0.0782	P	0.7
8	☐	1000.000	996.116	2501579.61	0.1553	A	1.6
9	☐			799.00	0.0001	P	5.5

$$y = 1.5586E-004 * x + 2.0439E-005$$

$$R = 1.0000$$

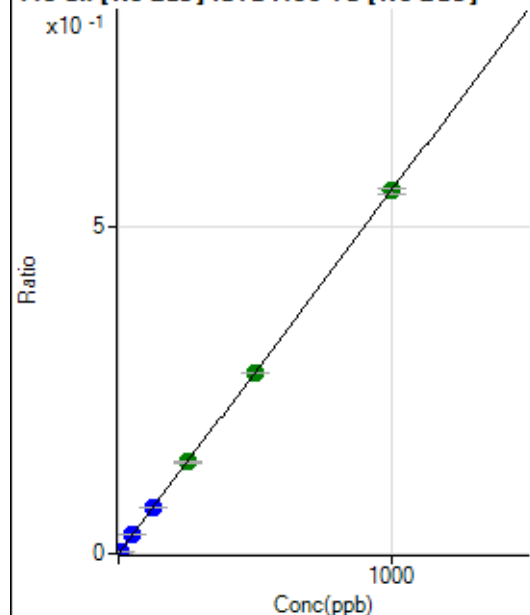
$$DL = 0.02324$$

$$BEC = 0.1311$$

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	1096.72	0.0001	P	3.8
2	☐	0.500	0.553	6062.44	0.0004	P	3.8
3	☐	5.000	5.576	51761.35	0.0032	P	2.3
4	☐	50.000	51.477	474165.56	0.0287	P	1.2
5	☐	125.000	126.463	1162847.04	0.0703	P	1.4
6	☐	250.000	251.993	2298138.80	0.1400	A	1.6
7	☐	500.000	499.849	4510901.63	0.2777	A	0.1
8	☐	1000.000	999.318	8943102.65	0.5551	A	1.7
9	☐			3273.74	0.0002	P	7.9

$$y = 5.5544\text{E-}004 * x + 6.6790\text{E-}005$$

$$R = 1.0000$$

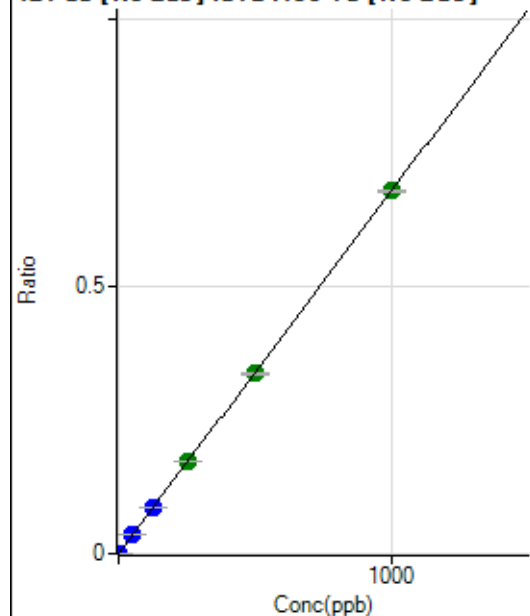
$$DL = 0.01357$$

$$BEC = 0.1202$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.78	0.0000	P	35.3
2	☐	0.200	0.215	2419.12	0.0001	P	2.9
3	☐	2.000	2.202	24504.29	0.0015	P	2.6
4	☐	50.000	50.806	570737.92	0.0345	P	1.4
5	☐	125.000	126.165	1416793.97	0.0857	P	1.0
6	☐	250.000	254.556	2836383.01	0.1728	A	1.5
7	☐	500.000	497.564	5487211.73	0.3378	A	0.9
8	☐	1000.000	999.893	10936874.14	0.6789	A	0.8
9	☐			5951.30	0.0004	P	11.1

$$y = 6.7893\text{E-}004 * x + 2.9128\text{E-}006$$

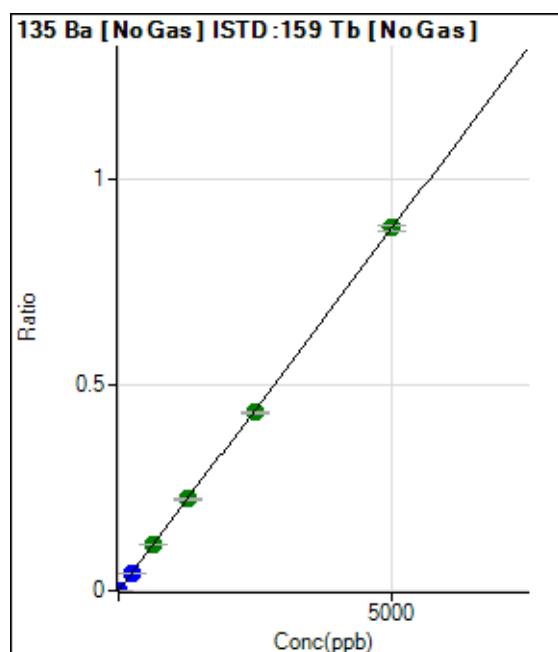
$$R = 1.0000$$

$$DL = 0.004547$$

$$BEC = 0.00429$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.22	0.0000	P	17.7
2	☐	1.000	1.096	3173.73	0.0002	P	5.4
3	☐	10.000	10.851	31277.67	0.0019	P	1.5
4	☐	250.000	250.469	728784.53	0.0440	P	1.5
5	☐	625.000	641.689	1866505.70	0.1128	A	0.7
6	☐	1250.000	1268.264	3660328.87	0.2230	A	1.9
7	☐	2500.000	2462.436	7033977.05	0.4330	A	0.6
8	☐	5000.000	5012.104	14199926.18	0.8814	A	1.3
9	☐			6375.93	0.0004	P	0.7

$$y = 1.7586\text{E-}004 * x + 3.1782\text{E-}006$$

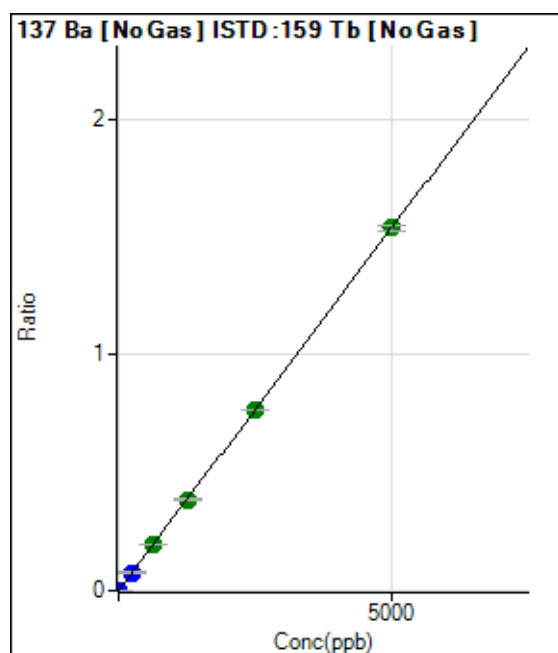
$$R = 1.0000$$

$$DL = 0.009599$$

$$BEC = 0.01807$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0000	P	8.9
2	☐	1.000	1.089	5516.68	0.0003	P	3.1
3	☐	10.000	10.764	54214.97	0.0033	P	1.9
4	☐	250.000	250.649	1274435.81	0.0770	P	1.6
5	☐	625.000	643.353	3269958.39	0.1977	A	1.4
6	☐	1250.000	1253.574	6322102.61	0.3852	A	1.4
7	☐	2500.000	2487.907	12418793.70	0.7645	A	0.5
8	☐	5000.000	5002.825	24767707.41	1.5374	A	1.5
9	☐			11160.02	0.0007	P	3.3

$$y = 3.0730\text{E-}004 * x + 5.6827\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.004921$$

$$BEC = 0.01849$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

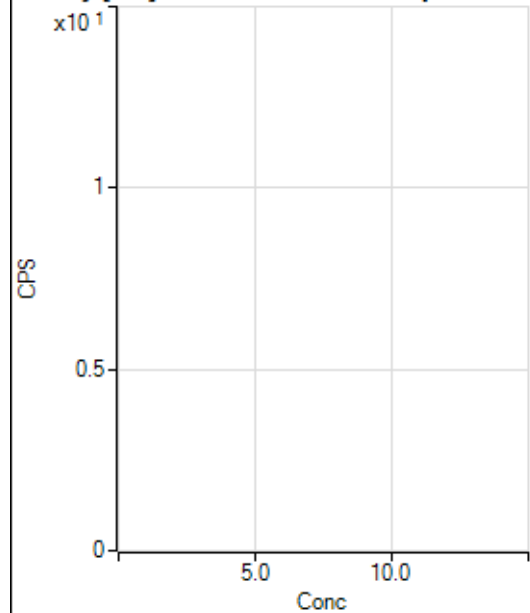
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	25.0
2	☐			1.11		P	173.
3	☐			11.11		P	45.8
4	☐			47.78		P	10.7
5	☐			118.89		P	13.8
6	☐			224.45		P	8.2
7	☐			458.90		P	7.6
8	☐			834.48		P	4.2
9	☐			224.45		P	3.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			3.33		P	100.
3	☐			3.33		P	100.
4	☐			17.78		P	47.2
5	☐			33.33		P	26.4
6	☐			56.67		P	25.6
7	☐			112.23		P	12.4
8	☐			213.34		P	3.1
9	☐			131.11		P	12.5

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	70.5
2	☐			4.44		P	114.
3	☐			21.11		P	9.1
4	☐			73.33		P	13.6
5	☐			171.11		P	11.7
6	☐			347.79		P	16.7
7	☐			676.69		P	5.2
8	☐			1236.73		P	7.5
9	☐			497.79		P	8.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			4.45		P	86.6
3	☐			14.44		P	13.4
4	☐			74.45		P	26.2
5	☐			160.01		P	14.4
6	☐			297.79		P	15.7
7	☐			571.13		P	7.2
8	☐			1122.28		P	4.5
9	☐			403.35		P	9.4

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

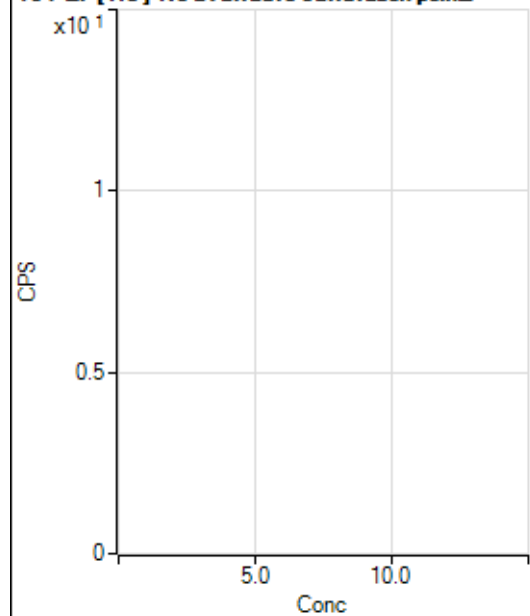
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			307.79		P	16.1
2	☐			324.45		P	11.3
3	☐			296.67		P	6.8
4	☐			284.45		P	9.1
5	☐			297.78		P	9.0
6	☐			292.23		P	3.7
7	☐			311.12		P	17.4
8	☐			401.12		P	12.9
9	☐			676.69		P	12.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			810.03		P	7.3
2	☐			881.15		P	9.2
3	☐			863.37		P	1.0
4	☐			872.26		P	1.3
5	☐			840.04		P	5.5
6	☐			801.14		P	4.1
7	☐			855.59		P	6.9
8	☐			950.04		P	1.3
9	☐			1066.72		P	6.1

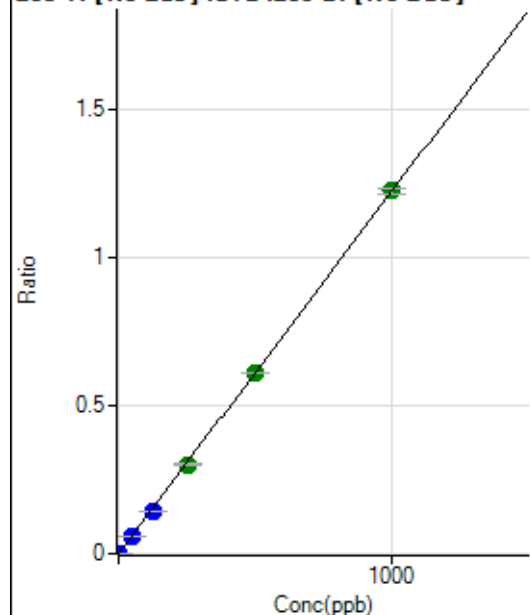
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90.00		P	19.6
2	☐			88.89		P	9.4
3	☐			86.67		P	26.7
4	☐			101.11		P	19.9
5	☐			113.34		P	16.4
6	☐			126.67		P	14.7
7	☐			153.33		P	10.0
8	☐			226.67		P	15.4
9	☐			513.35		P	3.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	49.5
2	☐			53.33		P	65.8
3	☐			53.33		P	28.6
4	☐			54.45		P	49.1
5	☐			60.00		P	20.0
6	☐			73.33		P	35.5
7	☐			85.56		P	16.2
8	☐			145.56		P	21.3
9	☐			357.79		P	12.9

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.12	0.0000	P	11.9
2	☐	0.100	0.111	1621.22	0.0002	P	6.4
3	☐	1.000	1.008	12913.96	0.0013	P	0.8
4	☐	50.000	46.792	604018.38	0.0572	P	1.0
5	☐	125.000	117.061	1522208.04	0.1432	P	1.6
6	☐	250.000	246.039	3177763.22	0.3009	A	1.4
7	☐	500.000	499.377	6302733.31	0.6107	A	0.6
8	☐	1000.000	1002.455	12490579.26	1.2260	A	1.8
9	☐			2186.87	0.0002	P	14.9

$$y = 0.0012 * x + 2.2480E-005$$

$$R = 1.0000$$

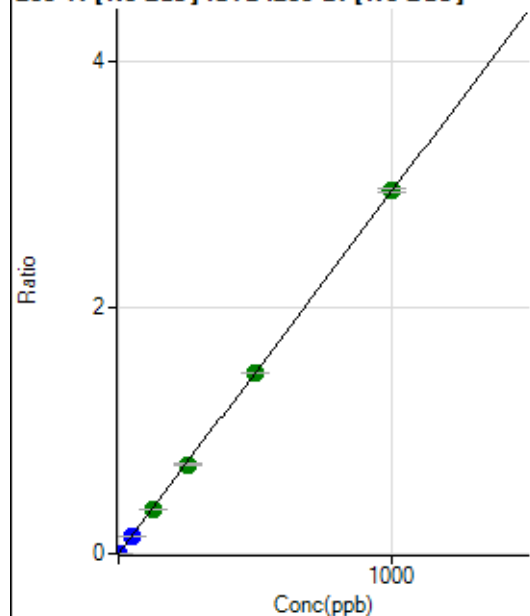
$$DL = 0.006551$$

$$BEC = 0.01838$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	617.80	0.0001	P	6.7
2	☐	0.100	0.107	3831.69	0.0004	P	3.6
3	☐	1.000	0.978	30187.91	0.0029	P	1.7
4	☐	50.000	46.267	1435458.71	0.1360	P	0.8
5	☐	125.000	121.779	3805665.43	0.3580	A	2.3
6	☐	250.000	246.252	7643936.76	0.7238	A	1.7
7	☐	500.000	498.991	15136124.64	1.4667	A	0.3
8	☐	1000.000	1002.031	30008153.44	2.9452	A	1.1
9	☐			5036.54	0.0006	P	9.6

$$y = 0.0029 * x + 6.0073E-005$$

$$R = 1.0000$$

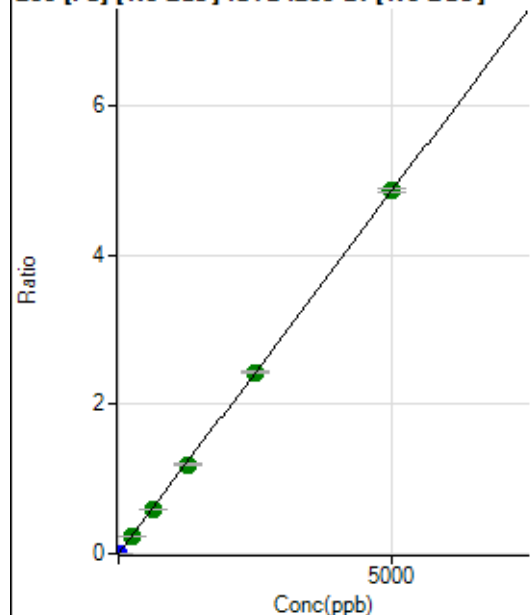
$$DL = 0.004099$$

$$BEC = 0.02044$$

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	383.35	0.0000	P	3.0
2	☐	0.100	0.116	1534.55	0.0002	P	1.6
3	☐	1.000	1.011	10487.45	0.0010	P	5.2
4	☐	250.000	245.328	2516430.09	0.2385	A	0.9
5	☐	625.000	610.717	6310901.09	0.5937	A	2.5
6	☐	1250.000	1230.551	12632009.67	1.1962	A	1.7
7	☐	2500.000	2501.751	25095737.96	2.4318	A	0.5
8	☐	5000.000	5006.006	49578737.04	4.8660	A	0.9
9	☐			15078.47	0.0017	P	3.6

$$y = 9.7202\text{E-}004 * x + 3.7249\text{E-}005$$

$$R = 1.0000$$

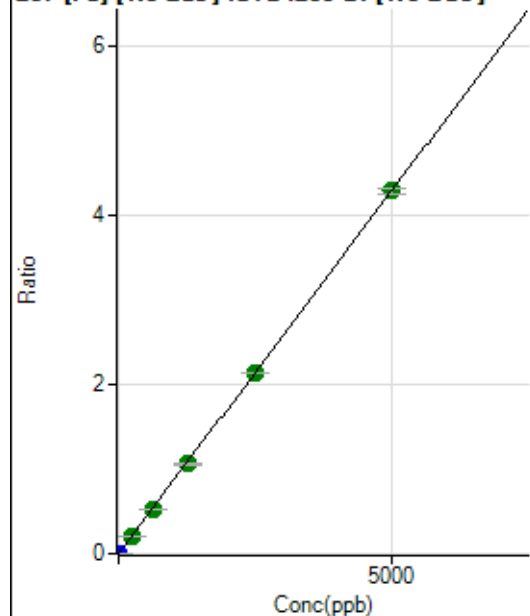
$$DL = 0.003418$$

$$BEC = 0.03832$$

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	398.90	0.0000	P	7.3
2	☐	0.100	0.106	1320.08	0.0001	P	9.5
3	☐	1.000	0.970	8929.67	0.0009	P	4.2
4	☐	250.000	244.692	2209599.62	0.2094	A	0.7
5	☐	625.000	614.025	5585753.25	0.5255	A	2.5
6	☐	1250.000	1239.612	11201952.89	1.0608	A	1.6
7	☐	2500.000	2503.011	22103253.28	2.1418	A	0.2
8	☐	5000.000	5002.729	43614658.24	4.2808	A	1.4
9	☐			13117.54	0.0015	P	6.9

$$y = 8.5568\text{E-}004 * x + 3.8739\text{E-}005$$

$$R = 1.0000$$

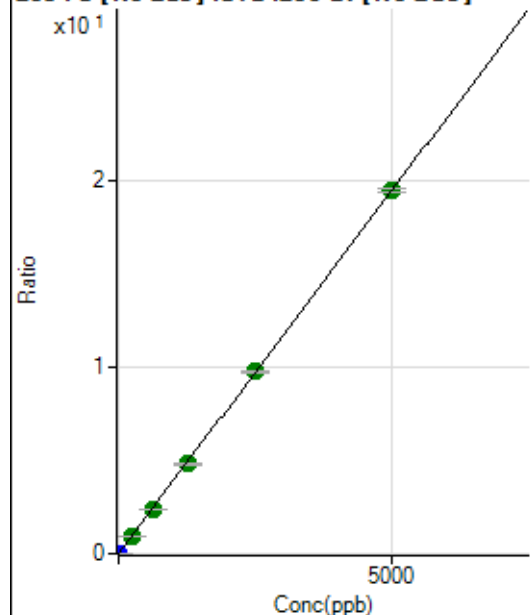
$$DL = 0.009909$$

$$BEC = 0.04527$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1627.84	0.0002	P	1.8
2	☐	0.100	0.110	6000.59	0.0006	P	3.8
3	☐	1.000	1.003	41692.10	0.0041	P	2.8
4	☐	250.000	245.452	10066156.22	0.9540	A	0.9
5	☐	625.000	614.891	25404720.94	2.3898	A	2.2
6	☐	1250.000	1238.485	50828607.99	4.8132	A	1.6
7	☐	2500.000	2506.801	100537564.3	9.7422	A	0.3
8	☐	5000.000	5000.969	198019927.0	19.4351	A	1.0
9	☐			59660.26	0.0067	P	4.8

$$y = 0.0039 * x + 1.5822E-004$$

$$R = 1.0000$$

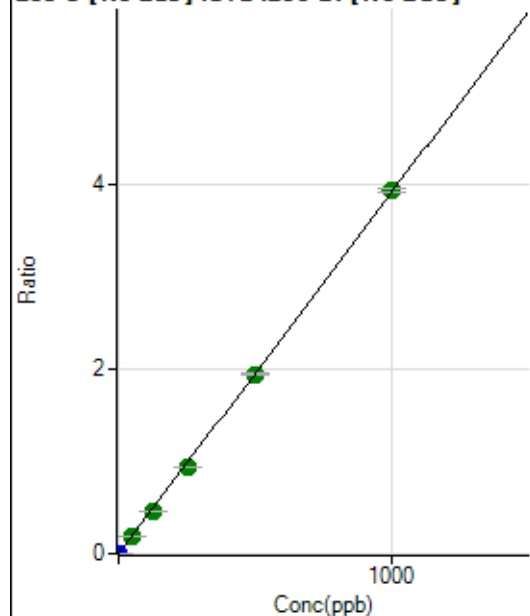
$$DL = 0.002223$$

$$BEC = 0.04071$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	155.56	0.0000	P	11.2
2	☐	0.100	0.096	4003.97	0.0004	P	0.4
3	☐	1.000	0.915	36993.56	0.0036	P	1.2
4	☐	50.000	46.277	1911691.88	0.1812	A	2.1
5	☐	125.000	117.678	4897626.59	0.4607	A	2.8
6	☐	250.000	239.795	9914276.10	0.9388	A	1.2
7	☐	500.000	497.258	20090727.48	1.9468	A	0.5
8	☐	1000.000	1005.024	40089773.57	3.9347	A	1.2
9	☐			4879.85	0.0005	P	13.2

$$y = 0.0039 * x + 1.5122E-005$$

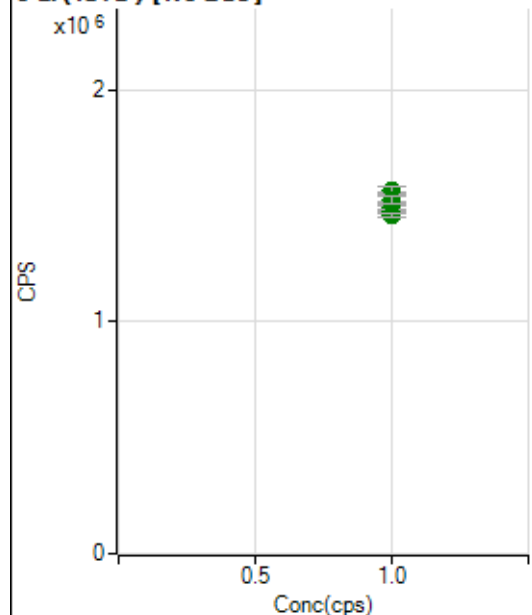
$$R = 0.9999$$

$$DL = 0.001293$$

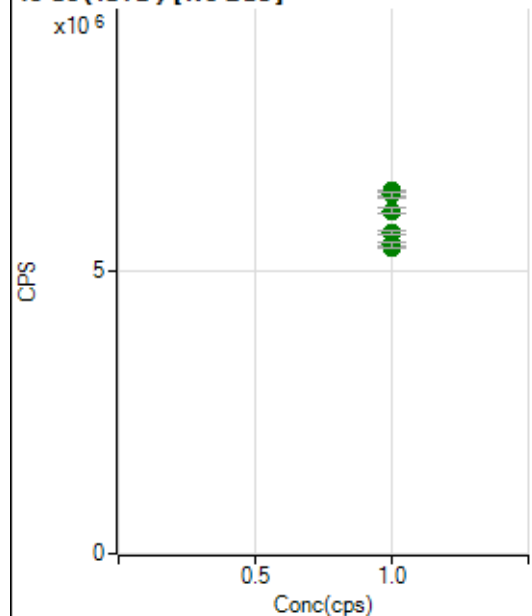
$$BEC = 0.003863$$

Weight: <None>

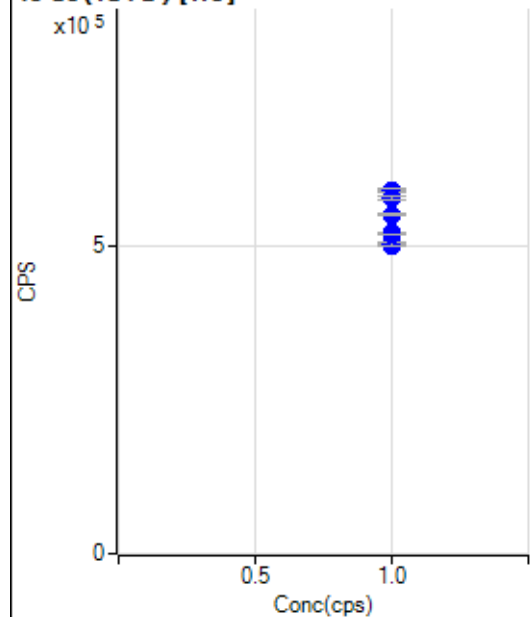
Min Conc: 0

6 Li (ISTD) [No Gas]

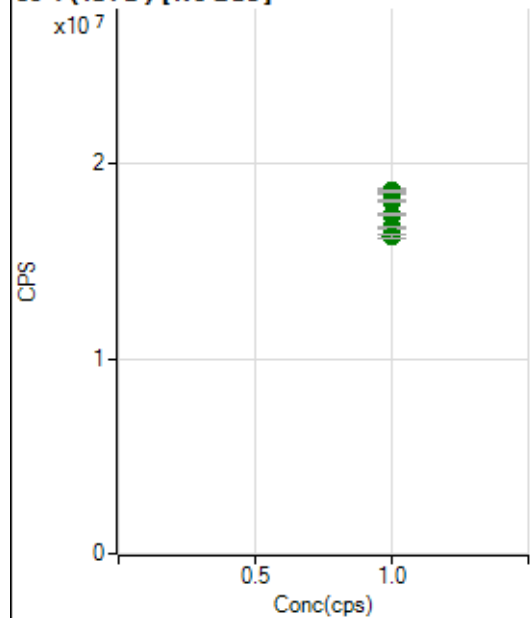
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1492006.61		A	0.9
2	☐	1.000		1476489.18		A	0.1
3	☐	1.000		1474017.62		A	0.7
4	☐	1.000		1516984.49		A	0.4
5	☐	1.000		1548208.68		A	0.5
6	☐	1.000		1552622.88		A	0.2
7	☐	1.000		1562776.14		A	2.2
8	☐	1.000		1523995.03		A	2.3
9	☐	1.000		1460464.60		A	1.2

45 Sc (ISTD) [No Gas]

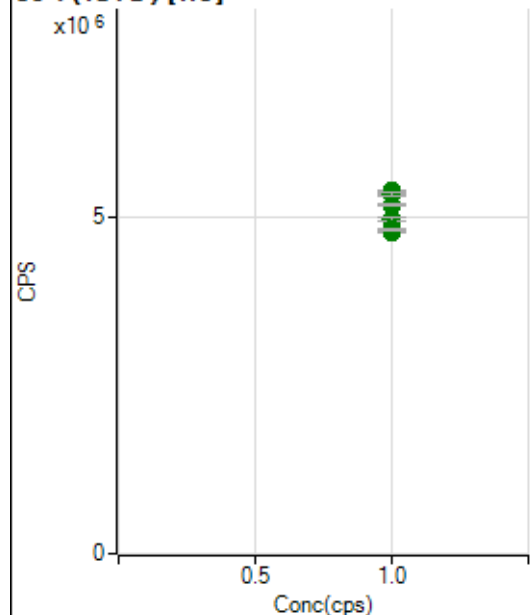
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6347753.17		A	1.4
2	☐	1.000		6338079.07		A	1.4
3	☐	1.000		6400011.57		A	0.8
4	☐	1.000		6330109.63		A	1.6
5	☐	1.000		6053683.52		A	1.4
6	☐	1.000		5662095.05		A	1.2
7	☐	1.000		5425678.88		A	0.2
8	☐	1.000		5401864.47		A	0.5
9	☐	1.000		5452394.19		A	2.0

45 Sc (ISTD) [He]

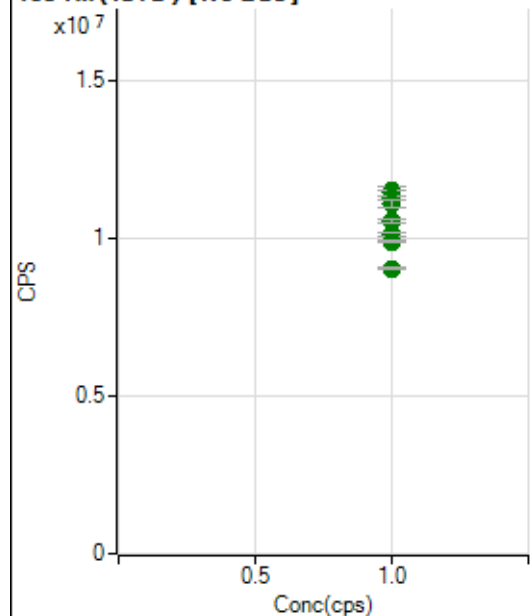
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		589362.43		P	0.5
2	☐	1.000		590135.48		P	0.5
3	☐	1.000		591337.59		P	1.1
4	☐	1.000		580170.98		P	0.7
5	☐	1.000		551733.76		P	0.6
6	☐	1.000		522220.90		P	0.2
7	☐	1.000		502695.61		P	0.2
8	☐	1.000		504719.92		P	0.9
9	☐	1.000		520875.24		P	0.2

89 Y (ISTD) [No Gas]

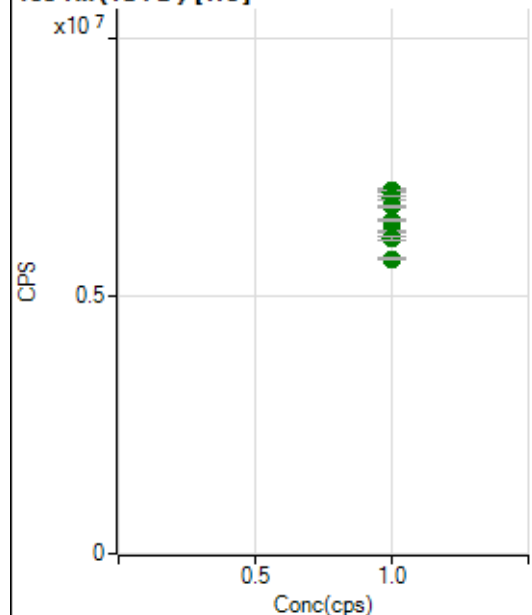
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18606205.83		A	1.2
2	☐	1.000		18518240.14		A	1.2
3	☐	1.000		18541503.33		A	0.9
4	☐	1.000		18582290.97		A	0.9
5	☐	1.000		18088639.18		A	0.7
6	☐	1.000		17370519.74		A	0.6
7	☐	1.000		16716141.00		A	0.8
8	☐	1.000		16708028.36		A	0.5
9	☐	1.000		16271770.32		A	0.7

89 Y (ISTD) [He]

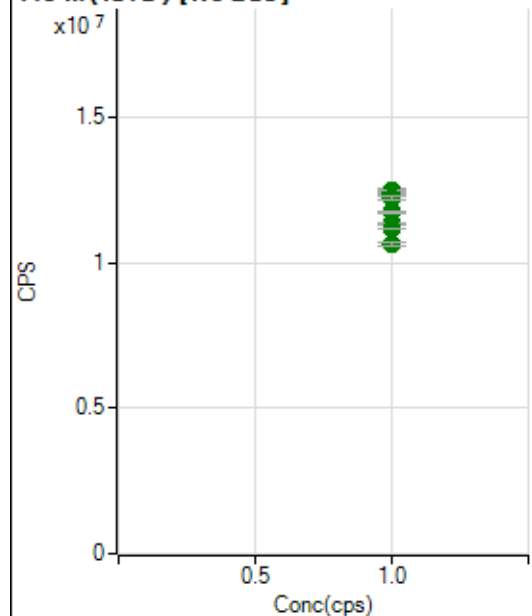
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5376491.90		A	1.4
2	☐	1.000		5365276.03		A	0.1
3	☐	1.000		5391777.73		A	0.9
4	☐	1.000		5344914.85		A	0.9
5	☐	1.000		5183133.81		A	0.4
6	☐	1.000		4983412.63		A	1.2
7	☐	1.000		4796032.04		A	0.6
8	☐	1.000		4786864.89		A	0.8
9	☐	1.000		4822479.30		A	0.5

103 Rh (ISTD) [No Gas]

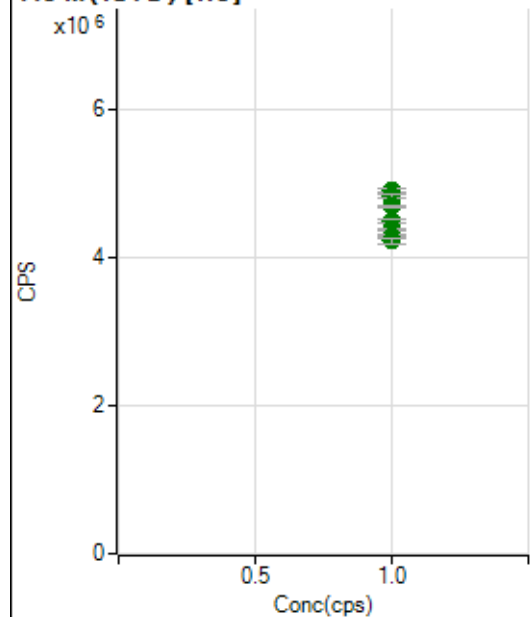
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11514947.05		A	2.6
2	☐	1.000		11446948.58		A	1.2
3	☐	1.000		11446626.77		A	1.4
4	☐	1.000		11297868.72		A	1.0
5	☐	1.000		11118786.78		A	2.1
6	☐	1.000		10532772.20		A	1.1
7	☐	1.000		10107879.02		A	1.2
8	☐	1.000		9888899.92		A	0.6
9	☐	1.000		9058693.89		A	1.0

103 Rh (ISTD) [He]

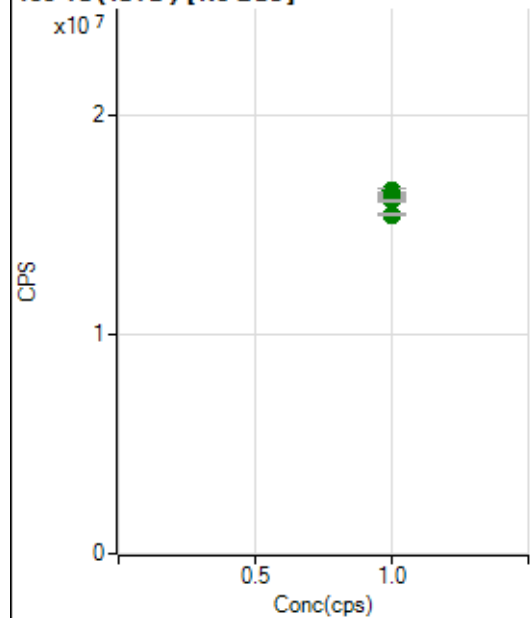
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7024164.13		A	0.3
2	☐	1.000		7039147.47		A	0.9
3	☐	1.000		7001712.26		A	1.6
4	☐	1.000		6903150.24		A	1.2
5	☐	1.000		6743637.05		A	0.4
6	☐	1.000		6469513.93		A	0.7
7	☐	1.000		6250183.94		A	0.6
8	☐	1.000		6122813.10		A	1.1
9	☐	1.000		5719874.64		A	0.6

115 In (ISTD) [No Gas]

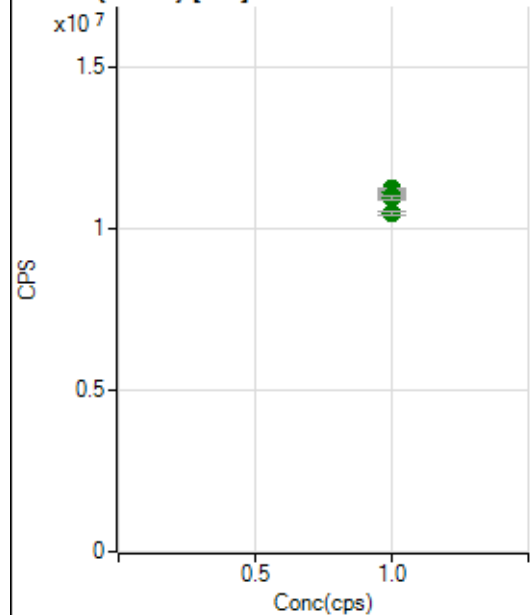
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12494457.56		A	1.0
2	☐	1.000		12463773.25		A	1.8
3	☐	1.000		12440380.30		A	0.7
4	☐	1.000		12414448.62		A	1.1
5	☐	1.000		12258374.66		A	1.5
6	☐	1.000		11777585.19		A	0.5
7	☐	1.000		11367479.51		A	0.5
8	☐	1.000		11173093.91		A	0.1
9	☐	1.000		10648683.90		A	1.2

115 In (ISTD) [He]

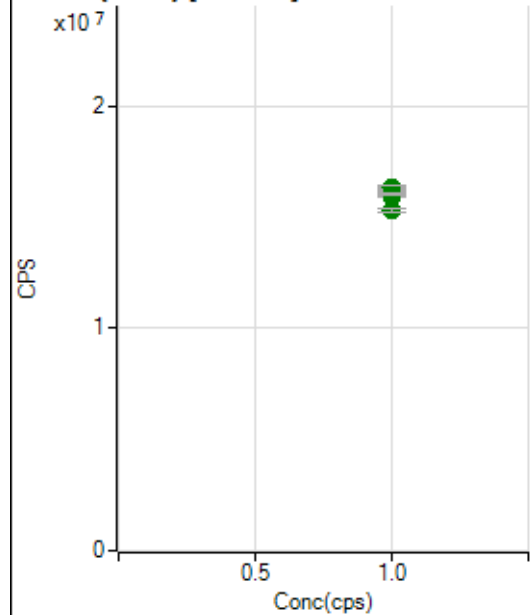
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4866853.13		A	0.3
2	☐	1.000		4870940.03		A	0.8
3	☐	1.000		4903695.87		A	1.1
4	☐	1.000		4842259.91		A	1.0
5	☐	1.000		4697980.00		A	0.8
6	☐	1.000		4498049.74		A	1.0
7	☐	1.000		4379873.56		A	1.0
8	☐	1.000		4298765.10		A	0.3
9	☐	1.000		4226812.00		A	1.5

159 Tb (ISTD) [No Gas]

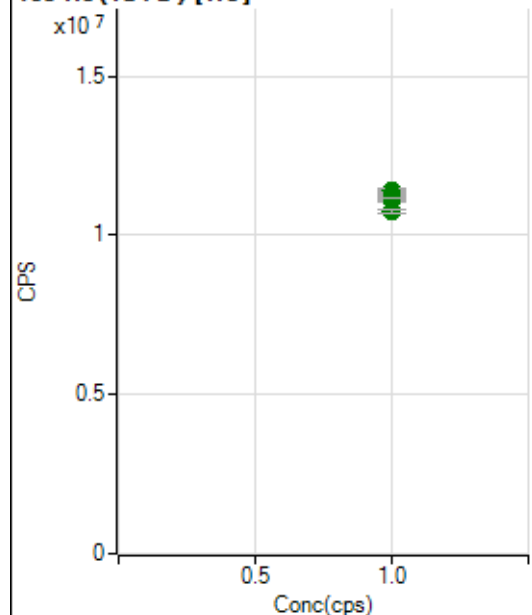
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16418996.70		A	0.8
2	☐	1.000		16209670.59		A	1.3
3	☐	1.000		16363704.75		A	1.1
4	☐	1.000		16546373.50		A	1.1
5	☐	1.000		16540871.97		A	1.1
6	☐	1.000		16411661.15		A	0.4
7	☐	1.000		16243675.73		A	0.5
8	☐	1.000		16111128.79		A	0.6
9	☐	1.000		15470407.55		A	0.3

159 Tb (ISTD) [He]

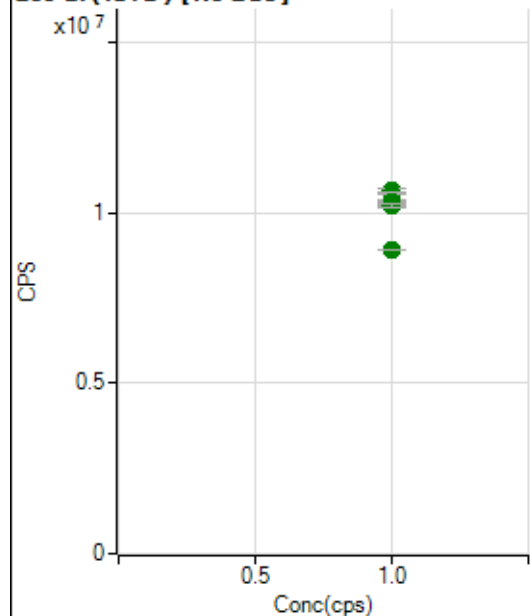
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11191874.28		A	1.2
2	☐	1.000		11136381.92		A	0.5
3	☐	1.000		11126705.46		A	1.9
4	☐	1.000		11141339.00		A	0.6
5	☐	1.000		11241370.39		A	0.3
6	☐	1.000		11004198.17		A	0.8
7	☐	1.000		10943804.84		A	0.3
8	☐	1.000		10979018.03		A	0.9
9	☐	1.000		10487273.59		A	0.7

165 Ho (ISTD) [No Gas]

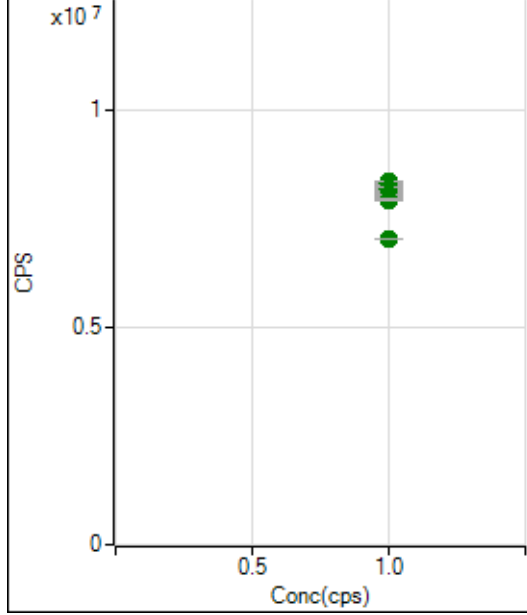
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16196375.73		A	1.7
2	☐	1.000		16001634.34		A	0.9
3	☐	1.000		16064097.54		A	0.5
4	☐	1.000		16226336.42		A	0.4
5	☐	1.000		16314991.98		A	1.6
6	☐	1.000		16025050.04		A	0.8
7	☐	1.000		15933014.07		A	0.4
8	☐	1.000		16024446.43		A	0.3
9	☐	1.000		15284973.52		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11173408.72		A	0.2
2	☐	1.000		11205358.03		A	0.8
3	☐	1.000		11254794.83		A	1.1
4	☐	1.000		11372432.75		A	0.5
5	☐	1.000		11395893.02		A	0.9
6	☐	1.000		11284380.81		A	0.6
7	☐	1.000		11085655.53		A	0.5
8	☐	1.000		11183766.22		A	0.2
9	☐	1.000		10731699.91		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10290021.58		A	1.8
2	☐	1.000		10224685.68		A	1.1
3	☐	1.000		10283639.22		A	0.3
4	☐	1.000		10551309.29		A	0.5
5	☐	1.000		10632482.83		A	1.2
6	☐	1.000		10560646.86		A	0.5
7	☐	1.000		10319831.10		A	0.2
8	☐	1.000		10189652.28		A	1.3
9	☐	1.000		8890227.16		A	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8152573.56		A	0.7
2	☐	1.000		8196278.91		A	0.6
3	☐	1.000		8207704.60		A	0.5
4	☐	1.000		8353596.75		A	0.9
5	☐	1.000		8320942.66		A	1.5
6	☐	1.000		8198873.35		A	0.8
7	☐	1.000		8041173.91		A	0.6
8	☐	1.000		7929607.73		A	0.5
9	☐	1.000		7046499.13		A	0.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7010325MS-4.b

Acq. Date-Time 2025-01-03 19:10:40

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		8091	80913.08			0.360	5.000
24		55046	550457.22			0.182	5.000
25		7252	72516.16			0.306	5.000
26		8321	83211.40			0.150	5.000
59		94324	943236.56			0.608	5.000
113		14039	140392.18			0.339	5.000
115		175275	1752754.77			0.667	5.000
206		41371	413711.22			0.599	5.000
207		36499	364988.62			0.844	5.000
208		90945	909450.39			0.769	5.000
220		0	2.00			61.237	

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

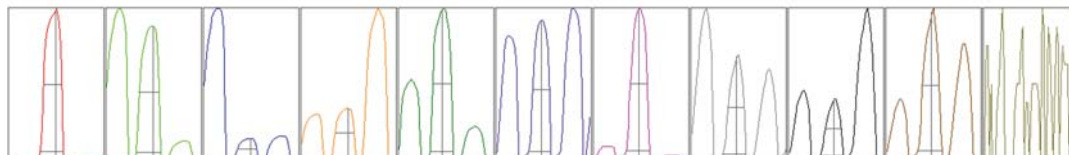
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8127	8084	8087	8108	8050
24	54993	55160	55072	55102	54902
25	7273	7215	7264	7250	7256
26	8303	8317	8321	8335	8329
59	94000	94912	93763	94974	93969
113	14042	13990	14067	14102	13995
115	175636	173391	175147	175650	176554
206	41545	41171	41257	41718	41165
207	36617	36199	36547	36929	36202
208	90206	90471	91506	90699	91844

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14509.45	9.00	8.90 - 9.10	
24	92024.30	24.00	23.90 - 24.10	
25	12174.60	25.00	24.90 - 25.10	
26	13854.34	26.00	25.90 - 26.10	
59	165158.49	58.90	58.90 - 59.10	
113	27338.15	112.95	112.90 - 113.10	
115	343031.85	114.95	114.90 - 115.10	
206	84634.75	205.95	205.90 - 206.10	
207	74250.40	206.95	206.90 - 207.10	
208	182267.57	207.95	207.90 - 208.10	
220	0.00	220.45	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.732	0.900	
24	0.63	0.779	0.900	
25	0.62	0.762	0.900	
26	0.62	0.759	0.900	
59	0.60	0.737	0.900	
113	0.52	0.707	0.900	
115	0.52	0.749	0.900	
206	0.50	0.727	0.900	
207	0.50	0.729	0.900	
208	0.52	0.770	0.900	
220	0.18	0.175		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.2 V	Deflect	14.6 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.09		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	0.4 mm
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EM

Discriminator	4.8 mV	Analog HV	2274 V	Pulse HV	1068 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		32509	325088.61			0.159	
89		39222	392220.48			0.403	
205		42268	422684.33			0.905	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	32472	32596	32493	32471	32513
89	39422	39338	39206	39047	39098
205	42842	42242	42140	41783	42336

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	8.9 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 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	139	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.09		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	0.4 mm		
EM					
Discriminator	4.8 mV	Analog HV	2274 V	Pulse HV	1068 V