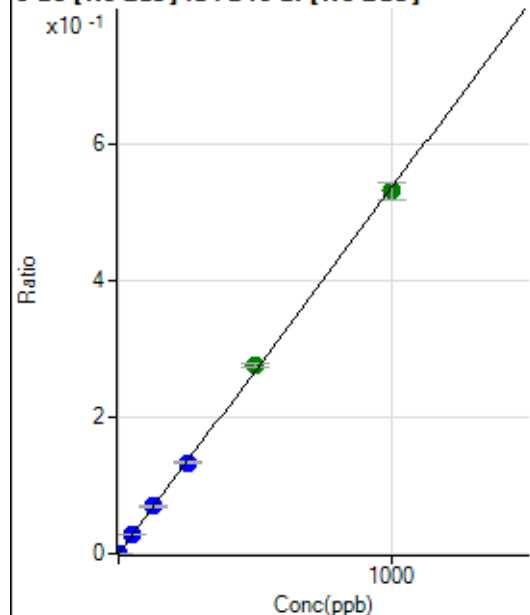


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8083022-MS.b\
Analysis File: P8083022-MS.batch.bin
DA Date-Time: 2022-08-30 23:41:37
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2022-08-30 11:33:04
2	007CALS.d	S02	2022-08-30 11:36:13
3	008CALS.d	S03	2022-08-30 11:39:24
4	009CALS.d	S04	2022-08-30 11:42:44
5	010CALS.d	S05	2022-08-30 11:45:52
6	011CALS.d	S06	2022-08-30 11:48:58
7	012CALS.d	S07	2022-08-30 11:52:07
8	013CALS.d	S08	2022-08-30 11:55:13

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.75	0.0000	P	8.2
2	☐	1.000	1.138	3844.61	0.0006	P	2.5
3	☐	50.000	51.593	180361.23	0.0277	P	2.2
4	☐	125.000	129.065	449430.97	0.0692	P	1.6
5	☐	250.000	249.564	880892.68	0.1339	P	1.9
6	☐	500.000	515.297	1796538.74	0.2764	A	2.2
7	☐	1000.000	991.873	3414235.41	0.5320	A	4.6
8	☐			371.21	0.0001	P	14.7

$$y = 5.3635\text{E-}004 * x + 2.1271\text{E-}006$$

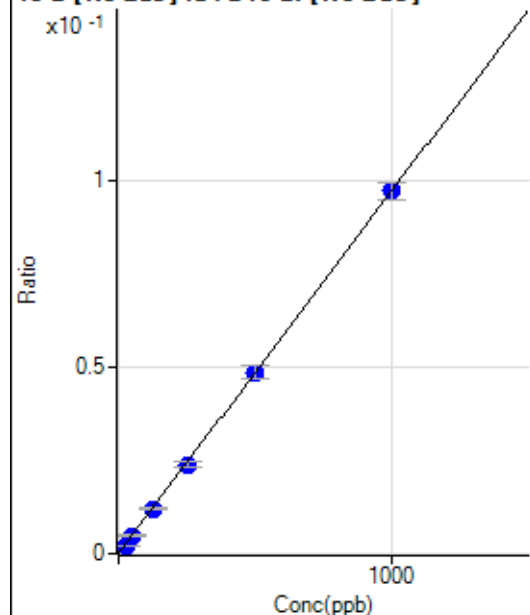
$$R = 0.9998$$

$$DL = 0.0009786$$

$$BEC = 0.003966$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	565.23	0.0001	P	7.2
2	☐	25.000	19.410	12350.78	0.0020	P	6.2
3	☐	50.000	49.234	31649.16	0.0049	P	6.1
4	☐	125.000	121.828	77209.56	0.0119	P	3.8
5	☐	250.000	245.937	157391.13	0.0239	P	5.5
6	☐	500.000	500.854	315763.80	0.0486	P	7.6
7	☐	1000.000	1001.163	623209.15	0.0971	P	4.9
8	☐			45460.89	0.0077	P	15.1

$$y = 9.6912\text{E-}005 * x + 8.7515\text{E-}005$$

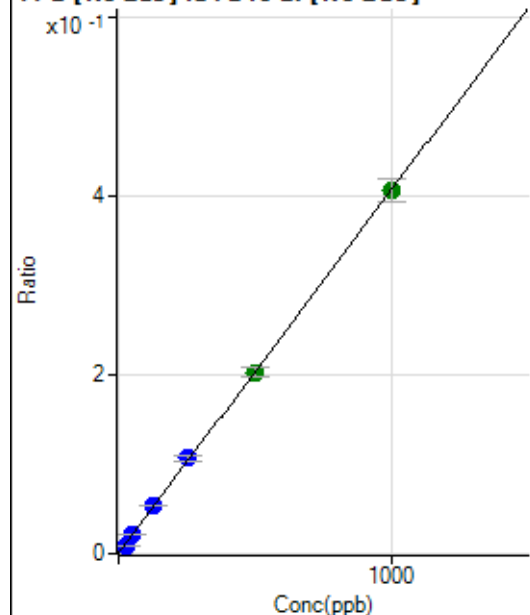
$$R = 1.0000$$

$$DL = 0.1952$$

$$BEC = 0.903$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2711.05	0.0004	P	2.5
2	☐	25.000	19.974	53523.43	0.0085	P	7.3
3	☐	50.000	51.324	138486.98	0.0213	P	7.5
4	☐	125.000	131.205	348665.88	0.0537	P	4.0
5	☐	250.000	261.686	701963.97	0.1067	P	6.0
6	☐	500.000	498.539	1317996.48	0.2029	A	6.1
7	☐	1000.000	997.093	2600966.41	0.4054	A	6.3
8	☐			202208.03	0.0342	P	14.0

$$y = 4.0617\text{E-}004 * x + 4.1965\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.0781$$

$$BEC = 1.033$$

Weight: <None>

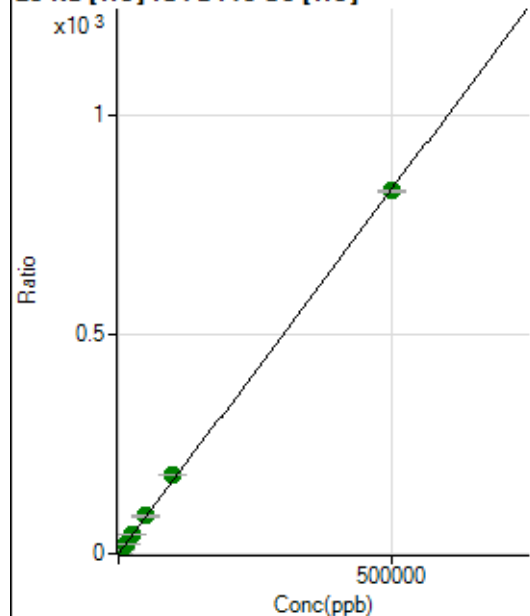
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6162071.23		A	1.7
2	☐			5630287.41		A	1.6
3	☐			5788764.84		A	1.7
4	☐			5937182.81		A	0.7
5	☐			6206335.25		A	1.2
6	☐			6592496.63		A	0.9
7	☐			7202052.42		A	1.2
8	☐			5910906.38		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60784.47		P	0.7
2	☐			58198.92		P	2.1
3	☐			60483.69		P	0.4
4	☐			61122.05		P	1.2
5	☐			66643.21		P	1.3
6	☐			69897.30		P	1.3
7	☐			77940.20		P	1.2
8	☐			67153.87		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20439.76	0.0953	P	6.3
2	☐	500.000	526.475	202475.22	0.9702	P	8.2
3	☐	5000.000	5359.321	1899589.08	9.0015	A	3.3
4	☐	12500.000	13269.829	4657503.23	22.1472	A	2.6
5	☐	25000.000	26559.842	9565743.10	44.2327	A	1.5
6	☐	50000.000	51755.015	18805502.33	86.1022	A	3.3
7	☐	100000.00	108100.40	39256505.04	179.7375	A	0.7
8	☐	500000.00	498103.55	175876652.5	827.8483	A	0.5

$$y = 0.0017 * x + 0.0953$$

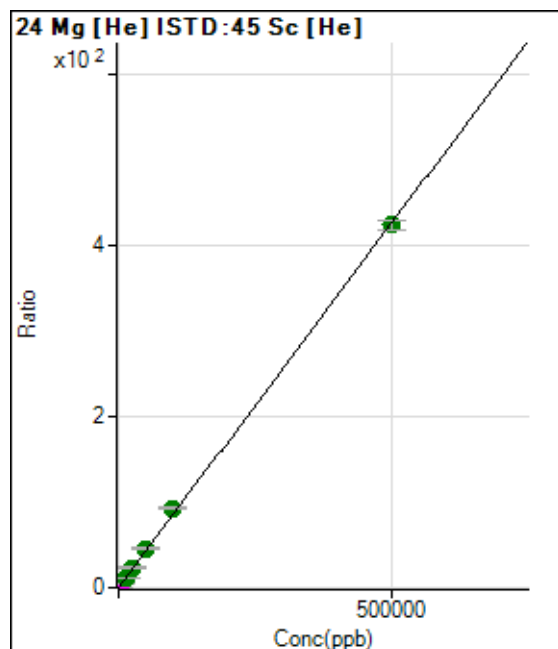
$$R = 0.9999$$

$$DL = 10.79$$

$$BEC = 57.34$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	263.90	0.0012	P	8.2
2	☐	500.000	563.798	100651.18	0.4822	P	8.3
3	☐	5000.000	5588.454	1006366.19	4.7688	M	3.5
4	☐	12500.000	14034.230	2517905.16	11.9740	A	3.7
5	☐	25000.000	27224.914	5023007.93	23.2271	A	3.7
6	☐	50000.000	54067.892	10075436.42	46.1271	A	2.4
7	☐	100000.00	108618.45	20239895.07	92.6648	A	2.0
8	☐	500000.00	497713.97	90208308.96	424.6063	A	2.7

$$y = 8.5311\text{E-}004 * x + 0.0012$$

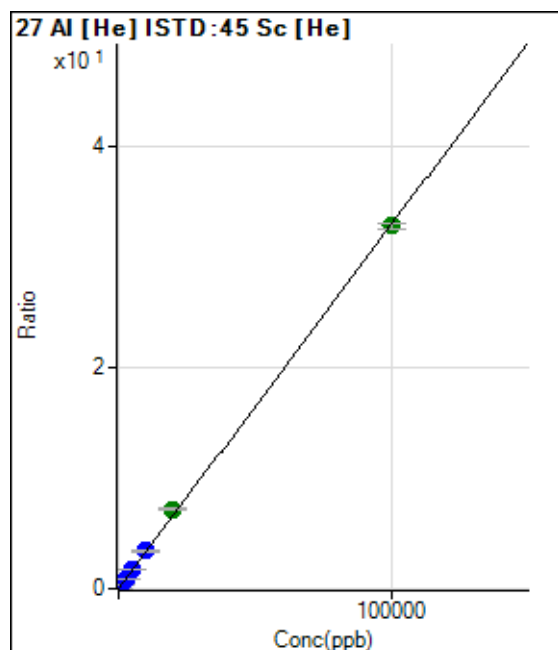
$$R = 0.9998$$

$$DL = 0.3549$$

$$BEC = 1.443$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94.57	0.0004	P	6.1
2	☐	20.000	21.987	1601.14	0.0077	P	7.5
3	☐	1000.000	1075.820	74748.40	0.3542	P	1.8
4	☐	2500.000	2693.878	186389.31	0.8863	P	3.0
5	☐	5000.000	5244.673	373110.73	1.7252	P	0.9
6	☐	10000.000	10439.725	749945.58	3.4336	P	3.0
7	☐	20000.000	21785.548	1564906.05	7.1646	A	2.3
8	☐	100000.00	99581.079	6956688.92	32.7478	A	1.9

$$y = 3.2885\text{E-}004 * x + 4.4087\text{E-}004$$

$$R = 0.9998$$

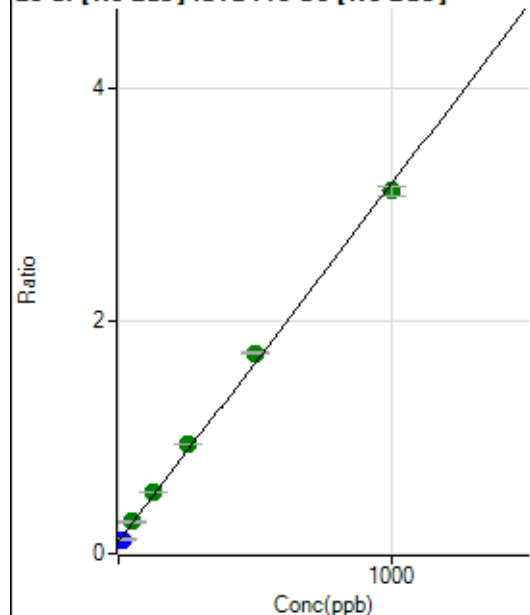
$$DL = 0.246$$

$$BEC = 1.341$$

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	753968.29	0.1091	P	3.2
2	☐	10.000	4.339	835727.71	0.1225	P	5.4
3	☐	50.000	53.824	1930065.45	0.2747	A	1.2
4	☐	125.000	135.260	3680339.54	0.5253	A	1.4
5	☐	250.000	271.698	6672206.96	0.9450	A	1.2
6	☐	500.000	526.585	12210409.74	1.7292	A	1.6
7	☐	1000.000	979.866	22430185.74	3.1237	A	2.3
8	☐			1002115.76	0.1487	A	6.6

$$y = 0.0031 * x + 0.1091$$

$$R = 0.9991$$

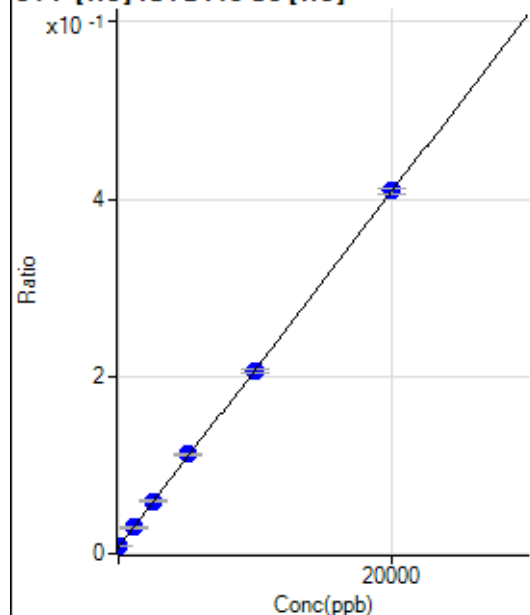
$$DL = 3.384$$

$$BEC = 35.47$$

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	-26.481	1727.93	0.0080	P	3.9
2	☐	0.000	26.481	1897.40	0.0091	P	10.2
3	☐	1000.000	1039.492	6193.15	0.0294	P	6.2
4	☐	2500.000	2520.042	12400.01	0.0590	P	3.9
5	☐	5000.000	5164.075	24187.45	0.1118	P	1.2
6	☐	10000.000	9852.807	44911.91	0.2056	P	1.8
7	☐	20000.000	20028.098	89347.80	0.4091	P	1.8
8	☐			1880.73	0.0089	P	6.0

$$y = 1.9998E-005 * x + 0.0086$$

$$R = 0.9999$$

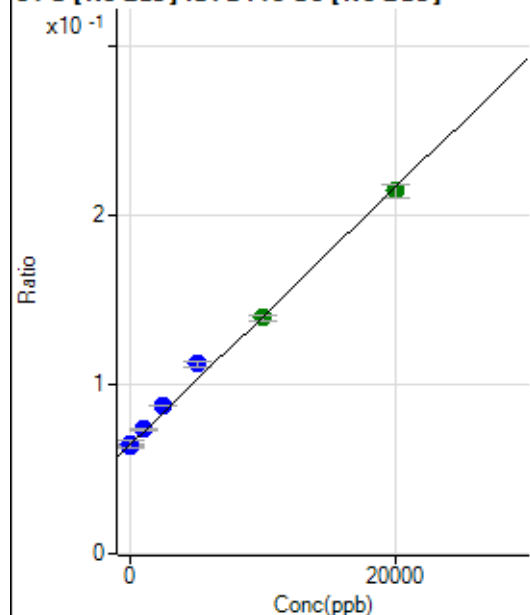
$$DL = 92.8$$

$$BEC = 428.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-62.980	440920.00	0.0638	P	2.5
2	☐	0.000	62.980	441810.14	0.0648	P	6.3
3	☐	1000.000	1176.881	514581.73	0.0733	P	1.3
4	☐	2500.000	3023.903	611858.15	0.0873	P	0.6
5	☐	5000.000	6259.329	790229.63	0.1119	P	2.8
6	☐	10000.000	9837.195	982860.77	0.1392	A	1.8
7	☐	20000.000	19692.238	1537724.37	0.2142	A	3.9
8	☐			376715.45	0.0559	P	4.2

$$y = 7.6124E-006 * x + 0.0643$$

R = 0.9976

DL = 1122

BEC = 8446

Weight: <None>

Min Conc: 0

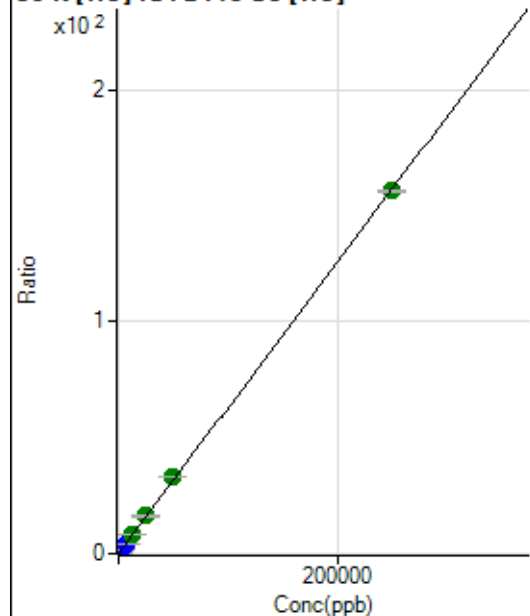
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			217530.50		P	0.4
2	☐			299129.87		P	1.2
3	☐			304059.28		P	0.5
4	☐			295242.44		P	0.7
5	☐			298325.22		P	0.6
6	☐			297078.46		P	0.9
7	☐			299080.38		P	1.1
8	☐			289121.89		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1380.66		P	6.1
2	☐			2069.66		P	6.6
3	☐			1964.08		P	8.3
4	☐			2039.08		P	3.5
5	☐			1914.06		P	3.5
6	☐			1977.97		P	11.4
7	☐			1941.85		P	5.8
8	☐			1922.40		P	6.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18031.12	0.0840	P	4.1
2	☐	500.000	522.720	86009.22	0.4117	P	5.2
3	☐	2500.000	2604.149	362223.10	1.7166	P	1.3
4	☐	6250.000	6468.475	870572.18	4.1392	P	2.0
5	☐	12500.000	12968.898	1776428.23	8.2145	A	2.4
6	☐	25000.000	25665.110	3533204.68	16.1741	A	2.6
7	☐	50000.000	52710.213	7235664.92	33.1293	A	1.8
8	☐	250000.00	249361.45	33232575.05	156.4145	A	0.3

$$y = 6.2692\text{E-}004 * x + 0.0840$$

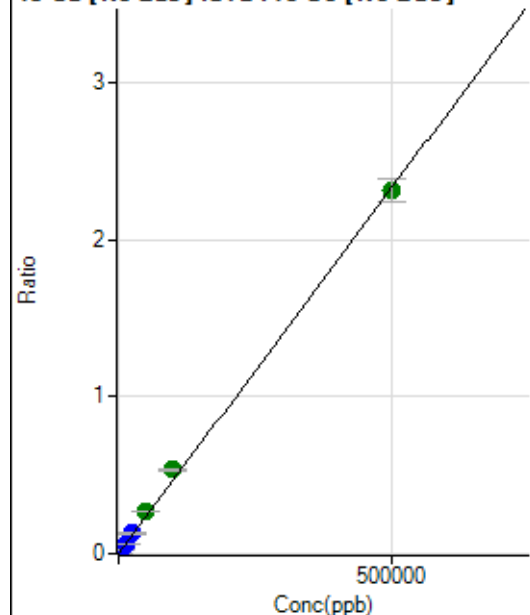
$$R = 0.9999$$

$$DL = 16.44$$

$$BEC = 134$$

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	269.14	0.0000	P	9.2
2	☐	500.000	485.950	15727.88	0.0023	P	3.9
3	☐	5000.000	5571.538	182711.90	0.0260	P	0.4
4	☐	12500.000	13936.640	455412.70	0.0650	P	1.7
5	☐	25000.000	27827.530	915956.70	0.1297	P	1.9
6	☐	50000.000	57399.025	1889278.43	0.2676	A	2.5
7	☐	100000.00	114725.45	3840115.77	0.5348	A	2.2
8	☐	500000.00	496132.01	15587434.61	2.3125	A	6.5

$$y = 4.6610E-006 * x + 3.8887E-005$$

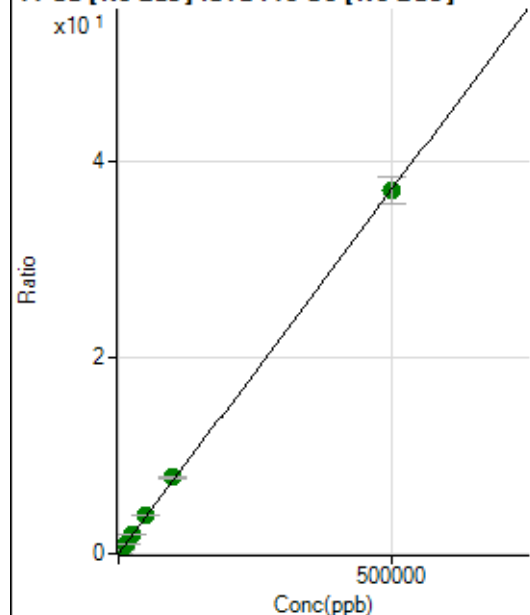
$$R = 0.9995$$

$$DL = 2.311$$

$$BEC = 8.343$$

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	11666.25	0.0017	P	3.3
2	☐	500.000	489.972	259506.60	0.0380	P	4.2
3	☐	5000.000	5322.943	2784385.00	0.3963	A	1.8
4	☐	12500.000	13097.551	6816324.64	0.9728	A	3.7
5	☐	25000.000	26679.795	13979081.39	1.9798	A	0.8
6	☐	50000.000	52439.472	27463745.83	3.8897	A	2.6
7	☐	100000.00	104460.56	55623384.25	7.7467	A	2.7
8	☐	500000.00	498761.79	249204944.7	36.9813	A	7.4

$$y = 7.4143E-005 * x + 0.0017$$

$$R = 1.0000$$

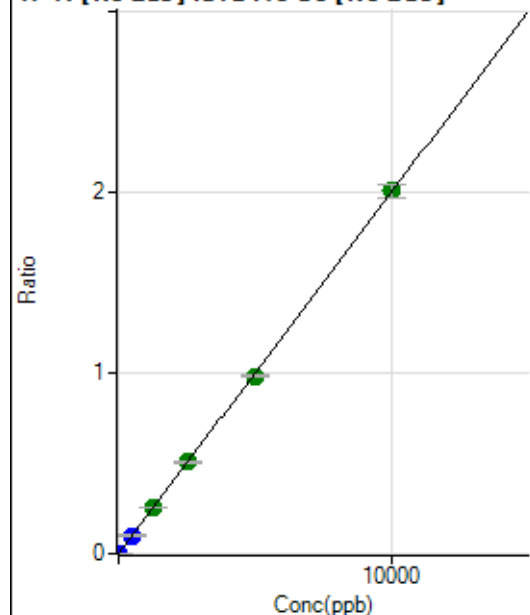
$$DL = 2.243$$

$$BEC = 22.78$$

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	275.01	0.0000	P	7.4
2	☐	5.000	5.215	7377.09	0.0011	P	5.0
3	☐	500.000	503.293	706265.44	0.1005	P	1.1
4	☐	1250.000	1269.745	1776768.83	0.2536	A	2.0
5	☐	2500.000	2544.665	3587509.41	0.5081	A	2.1
6	☐	5000.000	4904.124	6915246.25	0.9792	A	0.9
7	☐	10000.000	10034.139	14382754.14	2.0035	A	4.0
8	☐			1527.91	0.0002	P	15.2

$$y = 1.9967E-004 * x + 3.9760E-005$$

$$R = 0.9999$$

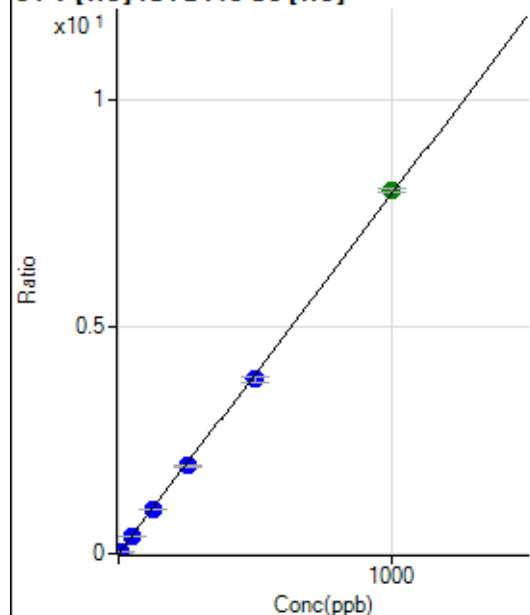
$$DL = 0.04416$$

$$BEC = 0.1991$$

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	4.45	0.0000	P	86.8
2	☐	5.000	4.842	7997.87	0.0383	P	7.2
3	☐	50.000	48.856	81530.76	0.3864	P	1.8
4	☐	125.000	122.298	203391.54	0.9672	P	3.0
5	☐	250.000	243.557	416584.95	1.9261	P	1.0
6	☐	500.000	484.527	836962.84	3.8317	P	2.3
7	☐	1000.000	1009.743	1744056.82	7.9851	A	1.2
8	☐			428.90	0.0020	P	8.9

$$y = 0.0079 * x + 2.0960E-005$$

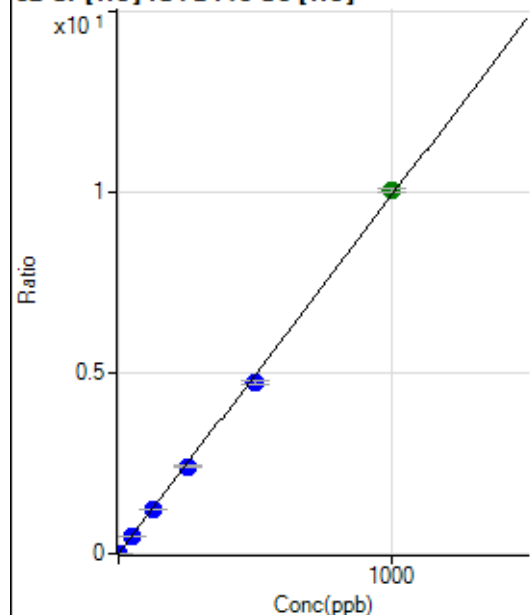
$$R = 0.9998$$

$$DL = 0.006902$$

$$BEC = 0.00265$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	627.80	0.0029	P	7.7
2	☐	2.000	1.968	4677.47	0.0224	P	8.3
3	☐	50.000	49.283	103604.92	0.4910	P	3.1
4	☐	125.000	123.876	258593.78	1.2296	P	2.9
5	☐	250.000	243.083	521228.47	2.4101	P	1.2
6	☐	500.000	476.800	1032019.94	4.7245	P	1.9
7	☐	1000.000	1013.505	2192675.52	10.0393	A	1.0
8	☐			6054.67	0.0285	P	1.2

$$y = 0.0099 * x + 0.0029$$

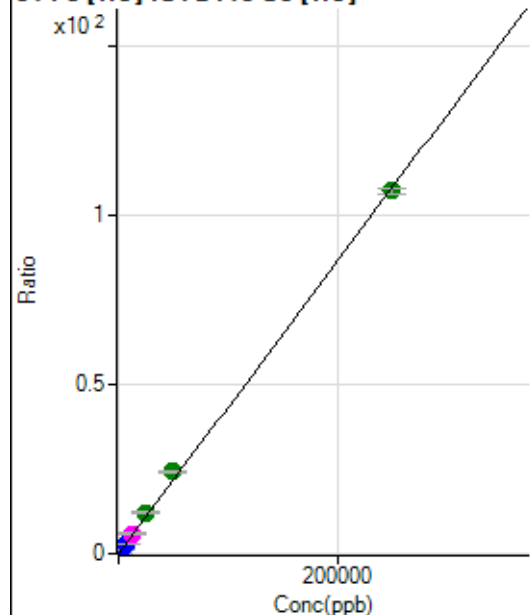
$$R = 0.9996$$

$$DL = 0.06836$$

$$BEC = 0.2957$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	885.23	0.0041	P	4.3
2	☐	50.000	56.857	5982.83	0.0287	P	6.7
3	☐	2500.000	2730.687	249537.92	1.1826	P	1.1
4	☐	6250.000	6855.812	623098.11	2.9628	P	2.5
5	☐	12500.000	13729.064	1282097.74	5.9290	M	2.8
6	☐	25000.000	27782.584	2619481.19	11.9939	A	4.4
7	☐	50000.000	56038.125	5283074.08	24.1878	A	1.6
8	☐	250000.00	248435.21	22777260.46	107.2182	A	1.8

$$y = 4.3156E-004 * x + 0.0041$$

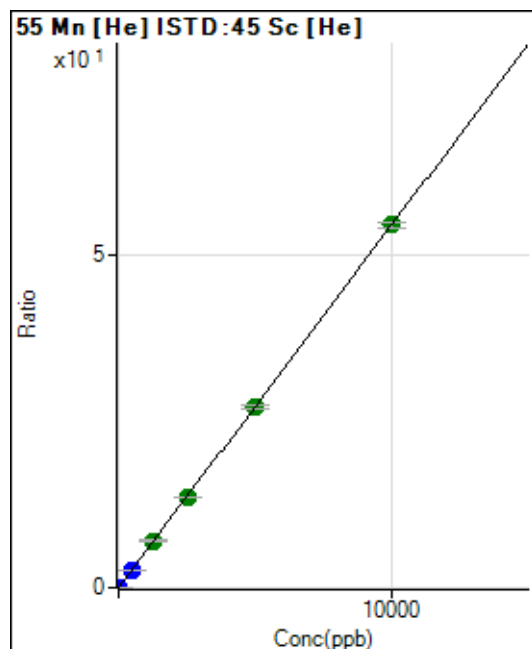
$$R = 0.9997$$

$$DL = 1.241$$

$$BEC = 9.544$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0003	P	22.5
2	☐	1.000	1.060	1271.18	0.0061	P	8.1
3	☐	500.000	490.990	565968.20	2.6821	P	1.9
4	☐	1250.000	1283.482	1474370.34	7.0107	A	3.7
5	☐	2500.000	2493.262	2945304.71	13.6185	A	1.2
6	☐	5000.000	4978.622	5940106.93	27.1935	A	2.4
7	☐	10000.000	10008.639	11940433.57	54.6675	A	1.9
8	☐			6320.35	0.0298	P	3.4

$$y = 0.0055 * x + 3.0316E-004$$

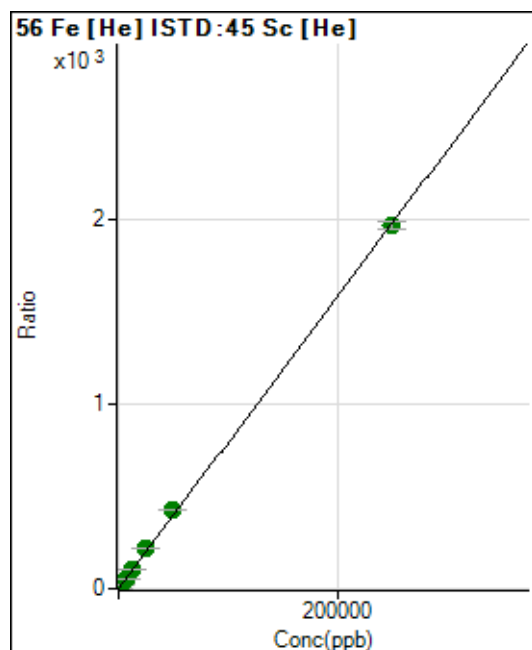
$$R = 1.0000$$

$$DL = 0.0374$$

$$BEC = 0.0555$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4093.25	0.0191	P	4.9
2	☐	50.000	54.430	93898.55	0.4497	P	6.7
3	☐	2500.000	2773.268	4634638.33	21.9615	A	3.7
4	☐	6250.000	6958.537	11582073.52	55.0758	A	3.1
5	☐	12500.000	13735.663	23506529.23	108.6972	A	1.5
6	☐	25000.000	27364.577	47297580.23	216.5308	A	2.3
7	☐	50000.000	53929.060	93199438.19	426.7121	A	0.5
8	☐	250000.00	248895.50	418376894.5	1.969.309	A	2.3

$$y = 0.0079 * x + 0.0191$$

$$R = 0.9998$$

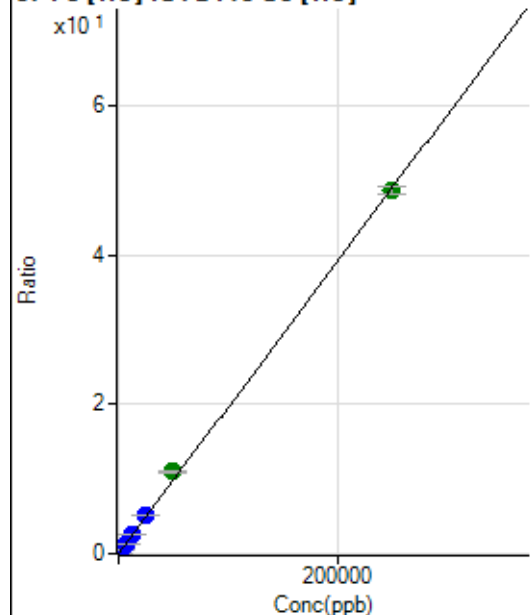
$$DL = 0.3557$$

$$BEC = 2.411$$

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	153.71	0.0007	P	23.8
2	☐	50.000	54.015	2357.64	0.0113	P	5.0
3	☐	2500.000	2671.199	110363.88	0.5230	P	3.0
4	☐	6250.000	6733.963	277021.22	1.3173	P	3.0
5	☐	12500.000	13223.561	559356.05	2.5861	P	1.0
6	☐	25000.000	26148.293	1116822.01	5.1131	P	3.0
7	☐	50000.000	56013.392	2392086.74	10.9521	A	0.3
8	☐	250000.00	248632.50	10327620.26	48.6120	A	2.2

$$y = 1.9551\text{E-}004 * x + 7.1672\text{E-}004$$

$$R = 0.9997$$

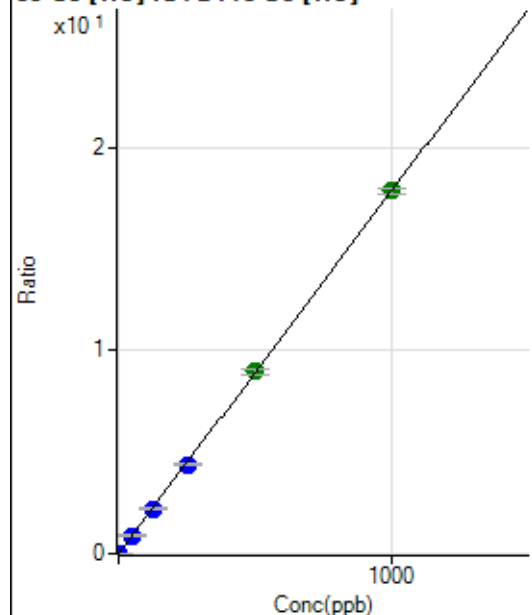
$$DL = 2.614$$

$$BEC = 3.666$$

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	64.44	0.0003	P	23.1
2	☐	1.000	1.030	3901.69	0.0187	P	7.6
3	☐	50.000	50.326	189686.62	0.8989	P	1.5
4	☐	125.000	124.264	466750.70	2.2192	P	1.7
5	☐	250.000	245.607	948598.16	4.3859	P	2.2
6	☐	500.000	501.781	1956979.45	8.9601	A	3.4
7	☐	1000.000	1000.284	3901081.40	17.8614	A	1.3
8	☐			13634.42	0.0642	P	2.0

$$y = 0.0179 * x + 3.0027\text{E-}004$$

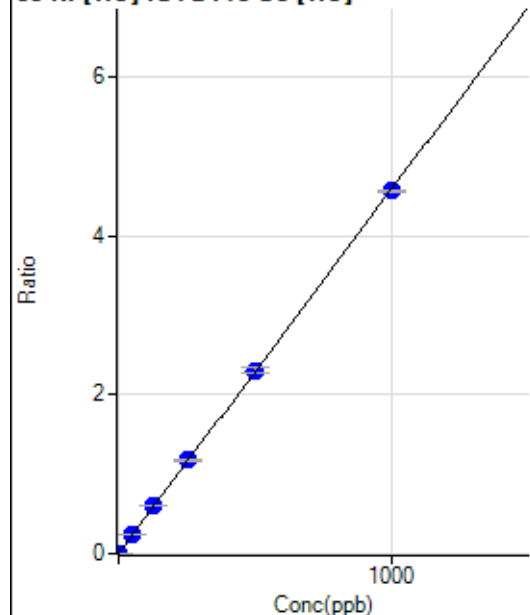
$$R = 1.0000$$

$$DL = 0.01166$$

$$BEC = 0.01682$$

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	78.89	0.0004	P	27.5
2	☐	1.000	1.099	1127.84	0.0054	P	14.3
3	☐	50.000	53.564	51960.26	0.2462	P	1.1
4	☐	125.000	131.462	126994.60	0.6038	P	2.9
5	☐	250.000	257.139	255351.50	1.1807	P	1.2
6	☐	500.000	503.071	504468.37	2.3096	P	2.7
7	☐	1000.000	995.694	998328.41	4.5709	P	0.3
8	☐			3702.74	0.0174	P	2.6

$$y = 0.0046 * x + 3.6921E-004$$

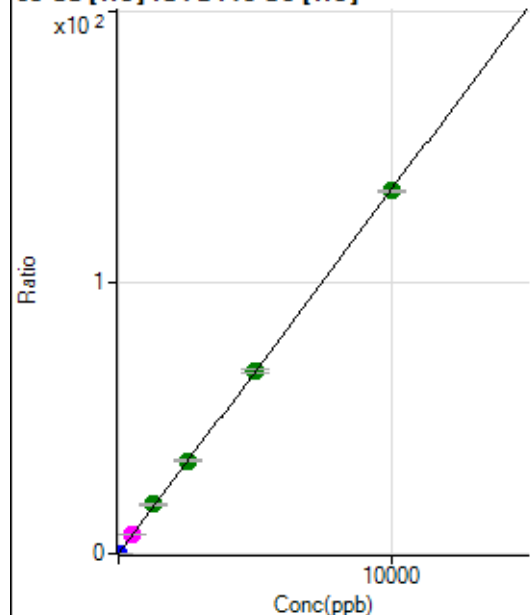
$$R = 1.0000$$

$$DL = 0.06646$$

$$BEC = 0.08043$$

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	1322.30	0.0062	P	9.5
2	☐	2.000	2.167	7374.20	0.0353	P	5.9
3	☐	500.000	526.324	1494472.91	7.0815	M	5.7
4	☐	1250.000	1349.352	3815721.85	18.1453	A	4.5
5	☐	2500.000	2555.477	7431062.81	34.3591	A	1.8
6	☐	5000.000	5018.764	14738961.86	67.4728	A	1.8
7	☐	10000.000	9963.014	29253362.06	133.9377	A	0.8
8	☐			5645.63	0.0266	P	5.2

$$y = 0.0134 * x + 0.0062$$

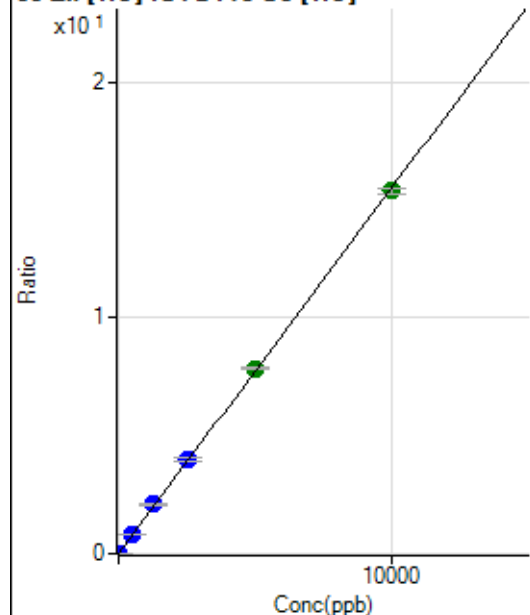
$$R = 0.9999$$

$$DL = 0.1307$$

$$BEC = 0.459$$

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	230.00	0.0011	P	18.5
2	☐	2.000	2.425	1005.60	0.0048	P	10.3
3	☐	500.000	538.034	176078.48	0.8344	P	2.2
4	☐	1250.000	1352.924	440928.27	2.0966	P	2.5
5	☐	2500.000	2581.138	864791.76	3.9990	P	2.3
6	☐	5000.000	5075.366	1717444.28	7.8623	A	1.6
7	☐	10000.000	9927.265	3358505.33	15.3774	A	1.4
8	☐			2609.15	0.0123	P	5.3

$$y = 0.0015 * x + 0.0011$$

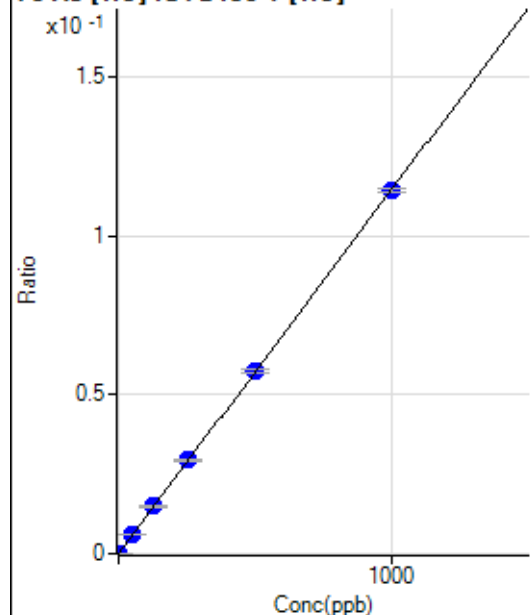
$$R = 0.9999$$

$$DL = 0.3813$$

$$BEC = 0.6879$$

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	5.33	0.0000	P	34.3
2	☐	1.000	1.118	214.35	0.0001	P	4.9
3	☐	50.000	51.317	9739.02	0.0059	P	2.4
4	☐	125.000	129.516	24073.56	0.0148	P	3.9
5	☐	250.000	257.614	48619.71	0.0295	P	1.5
6	☐	500.000	500.782	95265.55	0.0573	P	2.4
7	☐	1000.000	997.075	192050.01	0.1141	P	1.2
8	☐			130.01	0.0001	P	4.2

$$y = 1.1445E-004 * x + 3.3345E-006$$

$$R = 1.0000$$

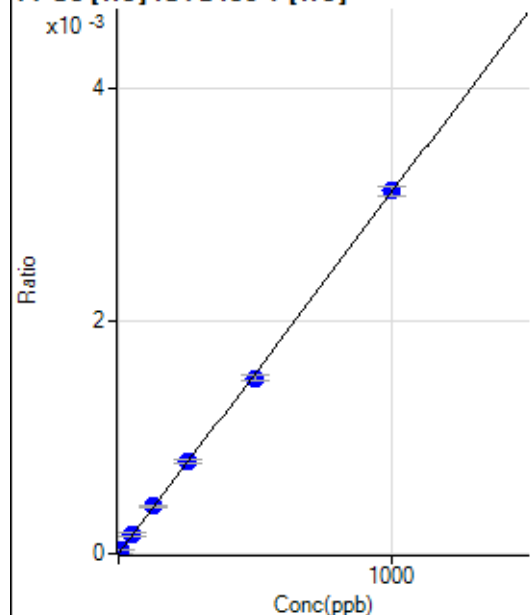
$$DL = 0.03001$$

$$BEC = 0.02913$$

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	1.11	0.0000	P	173.
2	☐	5.000	8.310	43.33	0.0000	P	7.0
3	☐	50.000	54.570	282.23	0.0002	P	19.6
4	☐	125.000	132.702	671.13	0.0004	P	3.8
5	☐	250.000	254.543	1305.63	0.0008	P	4.8
6	☐	500.000	486.715	2515.81	0.0015	P	2.6
7	☐	1000.000	1004.299	5255.47	0.0031	P	2.4
8	☐			1.11	0.0000	P	173.

$$y = 3.1085\text{E-}006 * x + 6.7390\text{E-}007$$

$$R = 0.9998$$

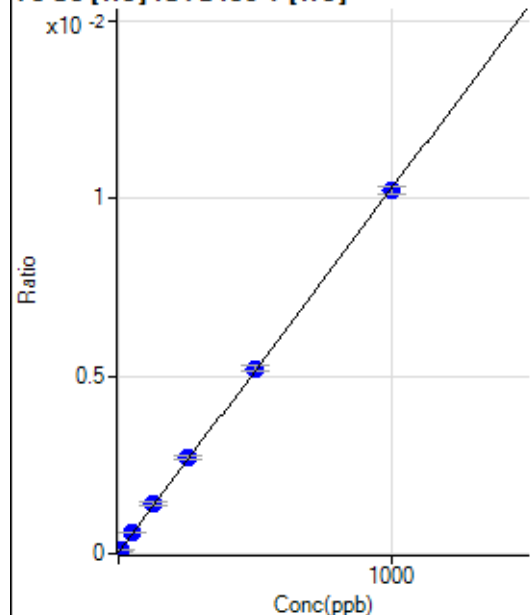
$$DL = 1.126$$

$$BEC = 0.2168$$

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	68.01	0.0000	P	9.3
2	☐	5.000	5.923	167.35	0.0001	P	13.3
3	☐	50.000	54.869	1000.47	0.0006	P	1.9
4	☐	125.000	134.001	2294.76	0.0014	P	6.7
5	☐	250.000	260.193	4458.49	0.0027	P	3.0
6	☐	500.000	504.573	8652.54	0.0052	P	2.8
7	☐	1000.000	993.792	17187.51	0.0102	P	2.0
8	☐			63.01	0.0000	P	8.2

$$y = 1.0235\text{E-}005 * x + 4.2138\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.149$$

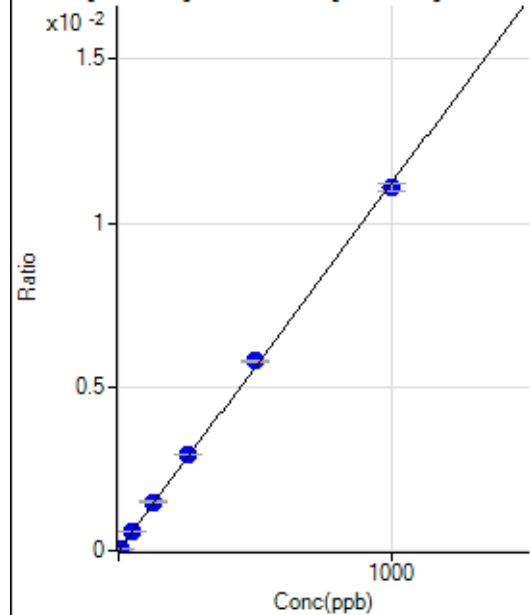
$$BEC = 4.117$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71656.59		P	3.2
2	☐			73874.98		P	2.5
3	☐			72379.05		P	2.5
4	☐			70819.09		P	2.1
5	☐			70309.43		P	1.1
6	☐			69641.81		P	2.0
7	☐			69345.91		P	1.2
8	☐			69460.64		P	0.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29.16	0.0000	P	52.1
2	☐	5.000	5.696	992.46	0.0001	P	7.5
3	☐	50.000	53.686	9492.43	0.0006	P	1.8
4	☐	125.000	132.564	23462.98	0.0015	P	2.2
5	☐	250.000	261.143	45770.20	0.0029	P	1.2
6	☐	500.000	516.921	90611.57	0.0058	P	1.0
7	☐	1000.000	987.620	177092.63	0.0111	P	2.3
8	☐			252.90	0.0000	P	18.7

$$y = 1.1211\text{E-}005 * x + 1.8492\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.2579$$

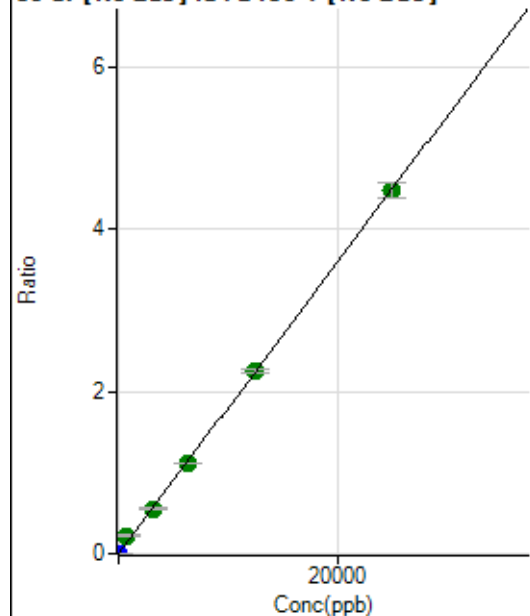
$$BEC = 0.1649$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			545.36		P	1.2
2	☐			557.44		P	7.3
3	☐			577.03		P	10.4
4	☐			579.11		P	3.5
5	☐			554.53		P	7.4
6	☐			574.52		P	3.4
7	☐			578.27		P	1.6
8	☐			637.86		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	972.28	0.0001	P	11.2
2	☐	1.000	0.986	3606.12	0.0002	P	3.0
3	☐	625.000	1251.652	3535911.23	0.2249	A	1.7
4	☐	3125.000	3091.785	8758303.06	0.5554	A	1.4
5	☐	6250.000	6256.239	17558292.40	1.1238	A	0.4
6	☐	12500.000	12612.449	35406943.16	2.2654	A	2.0
7	☐	25000.000	24930.701	71581471.05	4.4779	A	4.4
8	☐			17038.54	0.0011	P	8.0

$$y = 1.7961E-004 * x + 6.1432E-005$$

$$R = 0.9997$$

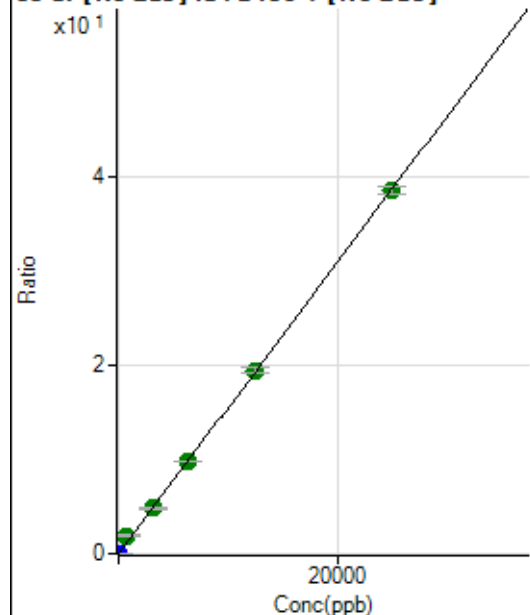
$$DL = 0.1149$$

$$BEC = 0.342$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	425.02	0.0000	P	3.7
2	☐	1.000	1.018	24168.85	0.0016	P	3.6
3	☐	625.000	1239.557	30152902.41	1.9181	A	3.2
4	☐	3125.000	3107.591	75824292.67	4.8085	A	1.5
5	☐	6250.000	6337.834	153222921.4	9.8068	A	1.9
6	☐	12500.000	12560.711	303730115.1	19.4358	A	3.2
7	☐	25000.000	24934.498	617038941.5	38.5823	A	2.3
8	☐			141610.60	0.0095	P	6.5

$$y = 0.0015 * x + 2.6872E-005$$

$$R = 0.9997$$

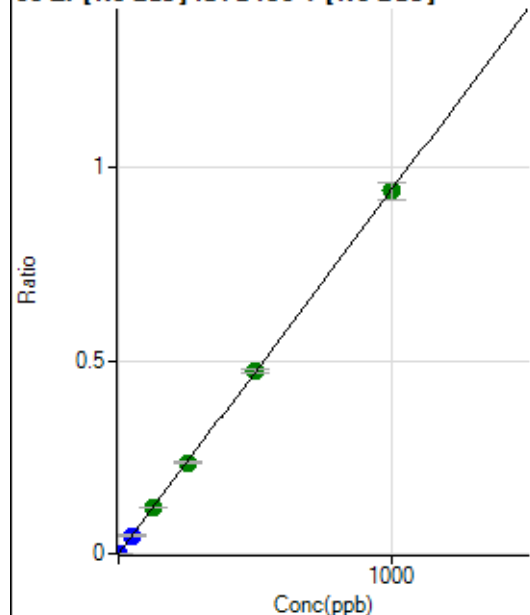
$$DL = 0.001925$$

$$BEC = 0.01737$$

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	597.26	0.0000	P	7.1
2	☐	1.000	0.988	14605.22	0.0010	P	3.9
3	☐	50.000	49.825	738450.53	0.0470	P	1.9
4	☐	125.000	125.174	1859740.47	0.1179	A	0.5
5	☐	250.000	250.758	3690335.93	0.2362	A	2.6
6	☐	500.000	503.771	7416300.86	0.4745	A	1.9
7	☐	1000.000	997.912	15023702.07	0.9399	A	4.9
8	☐			6246.01	0.0004	P	9.1

$$y = 9.4185E-004 * x + 3.7758E-005$$

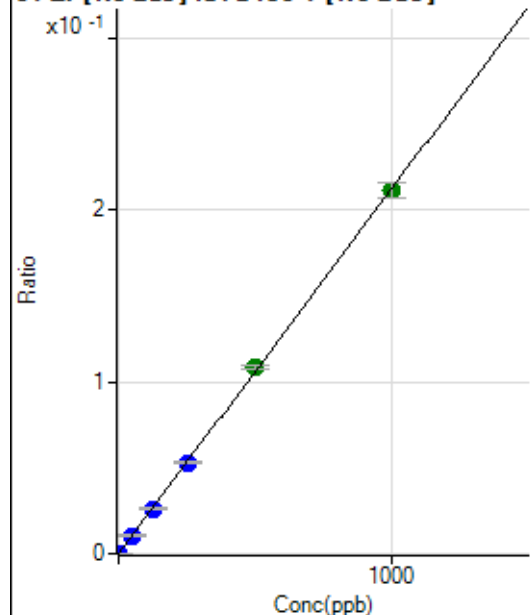
$$R = 1.0000$$

$$DL = 0.008571$$

$$BEC = 0.04009$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	38.2
2	☐	1.000	0.973	3200.46	0.0002	P	14.6
3	☐	50.000	49.343	164770.59	0.0105	P	3.0
4	☐	125.000	123.536	413657.20	0.0262	P	0.8
5	☐	250.000	249.229	826648.25	0.0529	P	2.1
6	☐	500.000	510.946	1695339.65	0.1085	A	1.8
7	☐	1000.000	994.935	3376504.07	0.2112	A	4.4
8	☐			1391.77	0.0001	P	7.9

$$y = 2.1229\text{E-}004 * x + 6.3293\text{E-}006$$

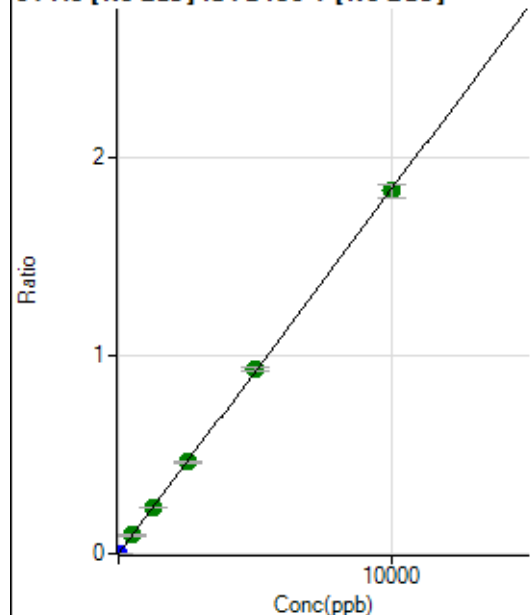
$$R = 0.9999$$

$$DL = 0.0342$$

$$BEC = 0.02982$$

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	225.01	0.0000	P	9.9
2	☐	5.000	6.084	17055.38	0.0011	P	5.8
3	☐	500.000	508.918	1469368.32	0.0935	A	3.8
4	☐	1250.000	1262.331	3655387.28	0.2318	A	2.4
5	☐	2500.000	2527.379	7250658.58	0.4641	A	2.4
6	☐	5000.000	5067.880	14545008.66	0.9307	A	2.3
7	☐	10000.000	9957.227	29234155.52	1.8285	A	3.6
8	☐			10056.68	0.0007	P	8.0

$$y = 1.8364\text{E-}004 * x + 1.4226\text{E-}005$$

$$R = 1.0000$$

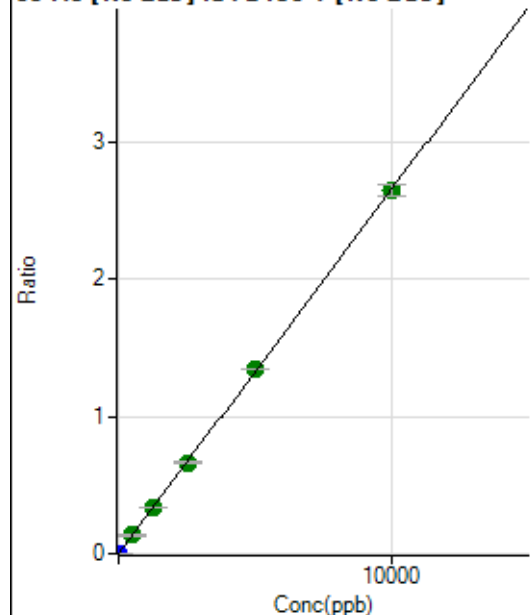
$$DL = 0.02302$$

$$BEC = 0.07747$$

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	19.44	0.0000	P	67.4
2	☐	5.000	5.233	20938.41	0.0014	P	6.2
3	☐	500.000	502.902	2097713.85	0.1334	A	0.9
4	☐	1250.000	1254.765	5248636.14	0.3329	A	1.6
5	☐	2500.000	2506.464	10387881.31	0.6649	A	1.4
6	☐	5000.000	5069.230	21018705.33	1.3447	A	1.0
7	☐	10000.000	9963.028	42256756.15	2.6429	A	3.3
8	☐			11758.04	0.0008	P	14.2

$$y = 2.6528\text{E-}004 * x + 1.2407\text{E-}006$$

$$R = 1.0000$$

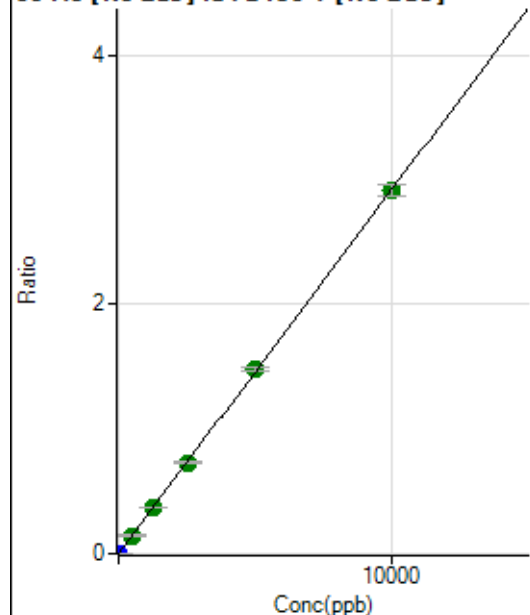
$$DL = 0.009452$$

$$BEC = 0.004677$$

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	236.12	0.0000	P	14.1
2	☐	5.000	5.105	22685.86	0.0015	P	4.2
3	☐	500.000	501.706	2301132.34	0.1464	A	1.6
4	☐	1250.000	1248.664	5743657.86	0.3642	A	0.5
5	☐	2500.000	2493.098	11361536.97	0.7272	A	1.5
6	☐	5000.000	5053.796	23038611.28	1.4741	A	2.3
7	☐	10000.000	9974.909	46521930.20	2.9096	A	3.1
8	☐			34432.86	0.0023	P	9.5

$$y = 2.9169\text{E-}004 * x + 1.4948\text{E-}005$$

$$R = 1.0000$$

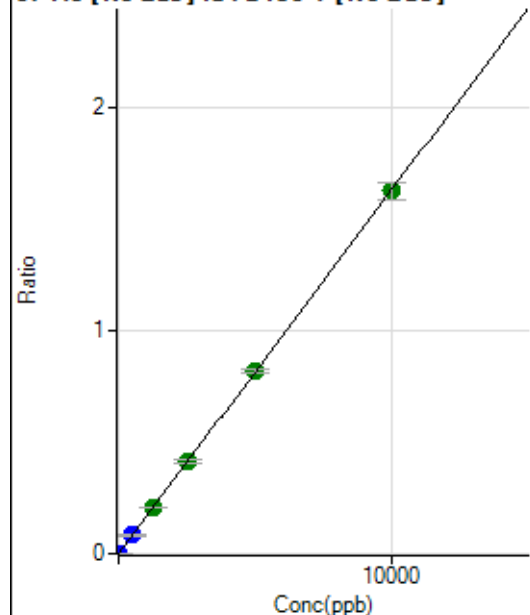
$$DL = 0.0216$$

$$BEC = 0.05125$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	2.1
2	☐	5.000	5.196	12795.12	0.0008	P	6.5
3	☐	500.000	503.813	1292703.79	0.0822	P	3.6
4	☐	1250.000	1261.905	3247656.54	0.2060	A	1.5
5	☐	2500.000	2548.366	6497553.79	0.4159	A	3.0
6	☐	5000.000	5017.857	12800333.71	0.8190	A	1.9
7	☐	10000.000	9977.301	26030303.88	1.6285	A	5.0
8	☐			7688.46	0.0005	P	15.0

$$y = 1.6322\text{E-}004 * x + 1.0540\text{E-}006$$

$$R = 1.0000$$

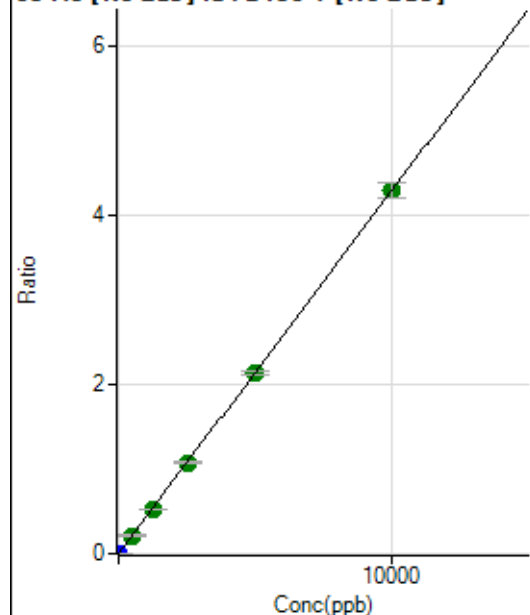
$$DL = 0.0004094$$

$$BEC = 0.006458$$

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	44.45	0.0000	P	49.2
2	☐	5.000	5.138	33271.18	0.0022	P	7.1
3	☐	500.000	497.362	3356502.11	0.2135	A	2.6
4	☐	1250.000	1230.392	8328041.33	0.5282	A	1.5
5	☐	2500.000	2517.366	16883543.78	1.0806	A	1.0
6	☐	5000.000	4991.243	33487342.07	2.1425	A	1.5
7	☐	10000.000	10002.620	68637955.01	4.2937	A	4.3
8	☐			17903.75	0.0012	P	13.9

$$y = 4.2926\text{E-}004 * x + 2.8290\text{E-}006$$

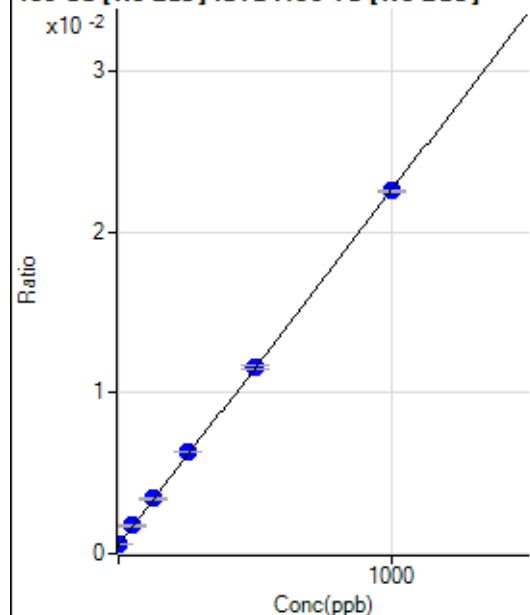
$$R = 1.0000$$

$$DL = 0.009725$$

$$BEC = 0.00659$$

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	6104.31	0.0006	P	2.0
2	☐	1.000	1.441	6237.73	0.0006	P	4.3
3	☐	50.000	53.071	18409.96	0.0017	P	3.0
4	☐	125.000	130.058	36975.31	0.0034	P	3.4
5	☐	250.000	259.869	68682.95	0.0063	P	0.3
6	☐	500.000	499.378	128278.70	0.0116	P	1.7
7	☐	1000.000	997.057	250421.42	0.0226	P	0.6
8	☐			5968.14	0.0006	P	5.5

$$y = 2.2077\text{E-}005 * x + 5.7649\text{E-}004$$

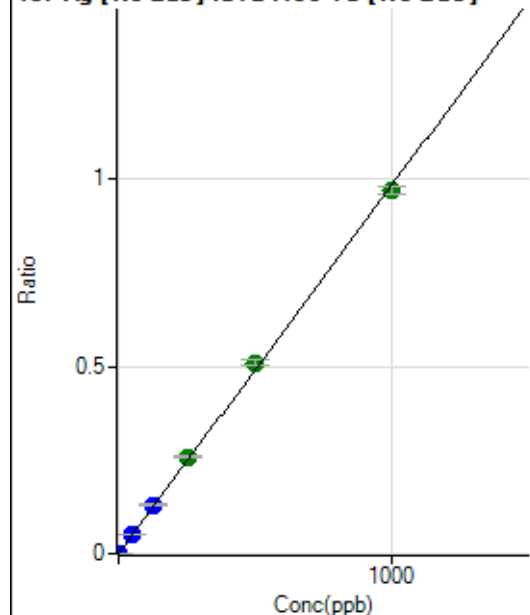
$$R = 0.9999$$

$$DL = 1.531$$

$$BEC = 26.11$$

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	138.90	0.0000	P	13.1
2	☐	1.000	1.112	11324.49	0.0011	P	6.5
3	☐	50.000	54.368	562175.13	0.0534	P	1.5
4	☐	125.000	133.039	1400642.88	0.1306	P	2.3
5	☐	250.000	263.795	2816667.97	0.2589	A	1.8
6	☐	500.000	518.779	5629273.78	0.5091	A	3.0
7	☐	1000.000	985.939	10726167.34	0.9676	A	2.2
8	☐			3133.79	0.0003	P	11.4

$$y = 9.8141\text{E-}004 * x + 1.3122\text{E-}005$$

$$R = 0.9996$$

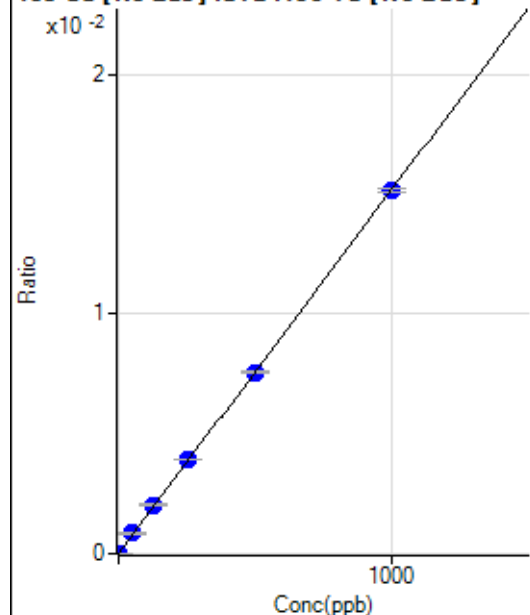
$$DL = 0.005256$$

$$BEC = 0.01337$$

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	155.56	0.0000	P	10.9
2	☐	1.000	1.014	309.73	0.0000	P	12.4
3	☐	50.000	54.764	8907.15	0.0008	P	0.9
4	☐	125.000	133.701	21910.56	0.0020	P	2.5
5	☐	250.000	258.208	42762.06	0.0039	P	1.8
6	☐	500.000	498.771	83825.59	0.0076	P	1.3
7	☐	1000.000	997.237	167844.75	0.0151	P	1.0
8	☐			123.62	0.0000	P	13.1

$$y = 1.5168\text{E-}005 * x + 1.4705\text{E-}005$$

$$R = 0.9999$$

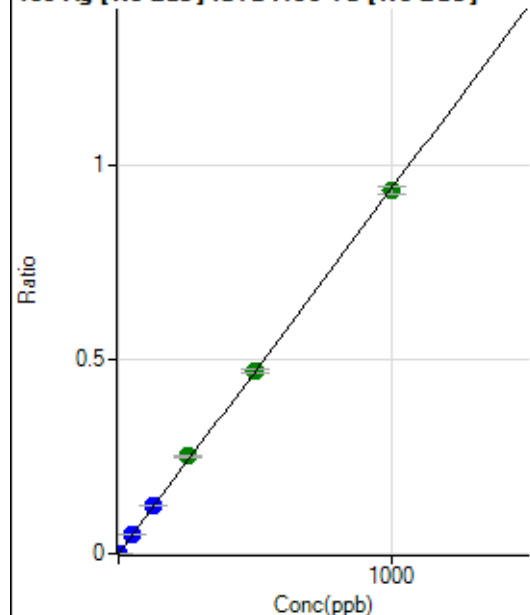
$$DL = 0.3161$$

$$BEC = 0.9695$$

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	75.00	0.0000	P	11.3
2	☐	1.000	1.098	10685.01	0.0010	P	2.4
3	☐	50.000	54.222	537784.46	0.0511	P	0.5
4	☐	125.000	132.809	1341319.68	0.1250	P	1.4
5	☐	250.000	266.208	2726076.04	0.2506	A	1.1
6	☐	500.000	501.527	5220571.56	0.4721	A	1.9
7	☐	1000.000	993.997	10374510.21	0.9357	A	2.1
8	☐			2739.24	0.0003	P	9.6

$$y = 9.4137\text{E-}004 * x + 7.0831\text{E-}006$$

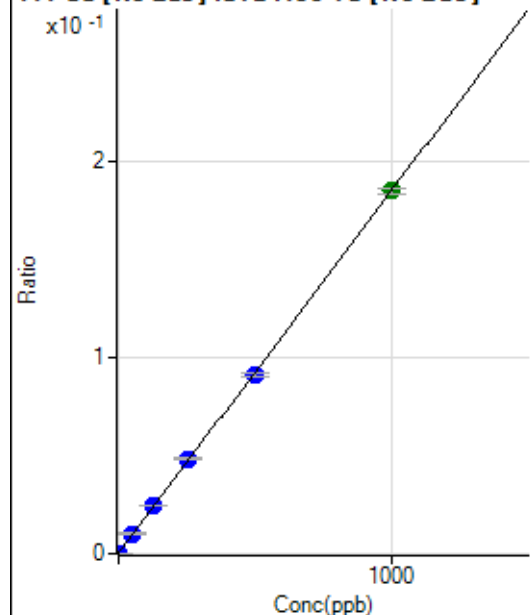
$$R = 0.9998$$

$$DL = 0.002549$$

$$BEC = 0.007524$$

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	2035.95	0.0002	P	1.7
2	☐	1.000	1.212	4268.00	0.0004	P	4.2
3	☐	50.000	54.615	108316.10	0.0103	P	2.2
4	☐	125.000	132.767	265231.79	0.0247	P	1.8
5	☐	250.000	260.542	525793.20	0.0483	P	1.5
6	☐	500.000	493.147	1009582.18	0.0913	P	2.5
7	☐	1000.000	999.589	2049660.65	0.1849	A	1.9
8	☐			2363.44	0.0002	P	5.0

$$y = 1.8478\text{E-}004 * x + 1.9226\text{E-}004$$

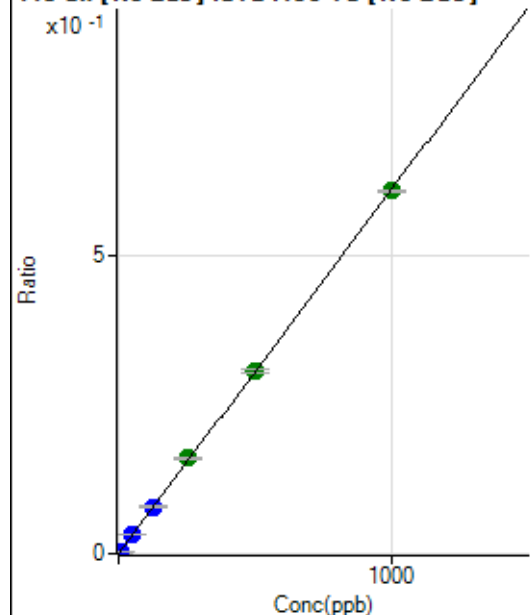
$$R = 0.9999$$

$$DL = 0.05197$$

$$BEC = 1.04$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2953.29	0.0003	P	3.1
2	☐	5.000	5.504	37326.98	0.0036	P	2.4
3	☐	50.000	52.311	339318.64	0.0322	P	1.5
4	☐	125.000	128.493	844098.14	0.0787	P	2.4
5	☐	250.000	261.237	1737098.50	0.1597	A	3.3
6	☐	500.000	500.863	3382619.08	0.3059	A	2.9
7	☐	1000.000	996.205	6742714.74	0.6082	A	0.7
8	☐			7735.72	0.0007	P	6.4

$$y = 6.1028\text{E-}004 * x + 2.7887\text{E-}004$$

$$R = 0.9999$$

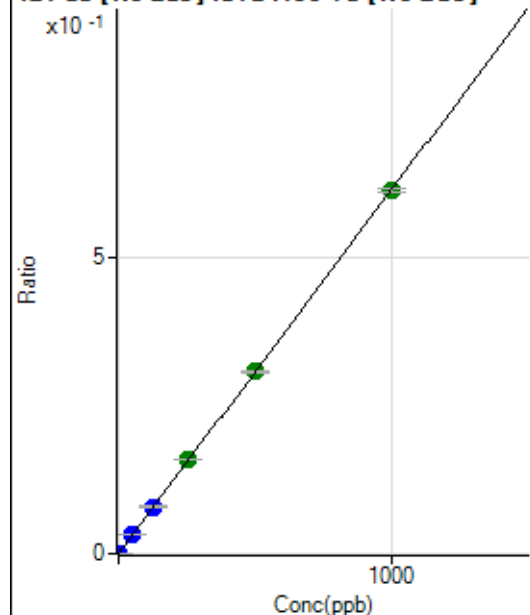
$$DL = 0.04225$$

$$BEC = 0.457$$

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	27.78	0.0000	P	18.4
2	☐	2.000	2.171	13704.42	0.0013	P	1.8
3	☐	50.000	51.782	334947.50	0.0318	P	2.2
4	☐	125.000	127.988	843004.39	0.0786	P	2.5
5	☐	250.000	259.527	1733639.67	0.1594	A	1.4
6	☐	500.000	500.743	3400060.54	0.3075	A	1.3
7	☐	1000.000	996.784	6785064.38	0.6121	A	1.1
8	☐			6026.50	0.0006	P	3.9

$$y = 6.1403\text{E-}004 * x + 2.6261\text{E-}006$$

$$R = 0.9999$$

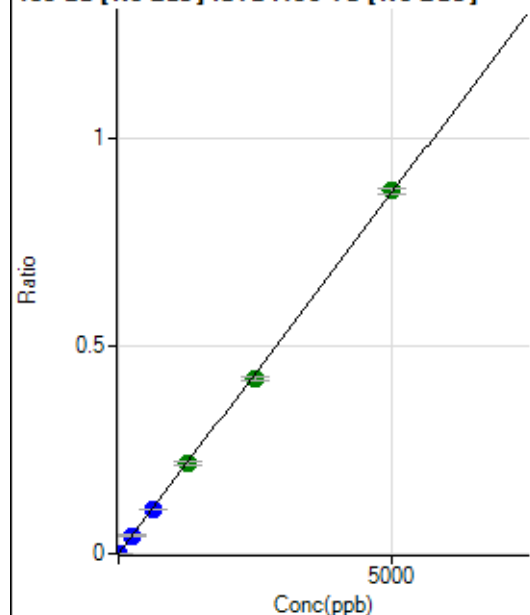
$$DL = 0.002356$$

$$BEC = 0.004277$$

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	22.22	0.0000	P	23.1
2	☐	10.000	10.014	17881.68	0.0017	P	2.2
3	☐	250.000	252.882	463130.35	0.0440	P	2.2
4	☐	625.000	617.871	1152195.03	0.1074	P	2.6
5	☐	1250.000	1255.125	2373353.96	0.2182	A	4.1
6	☐	2500.000	2436.558	4684012.78	0.4236	A	2.0
7	☐	5000.000	5031.186	9697484.42	0.8747	A	1.3
8	☐			4078.50	0.0004	P	9.6

$$y = 1.7386\text{E-}004 * x + 2.1041\text{E-}006$$

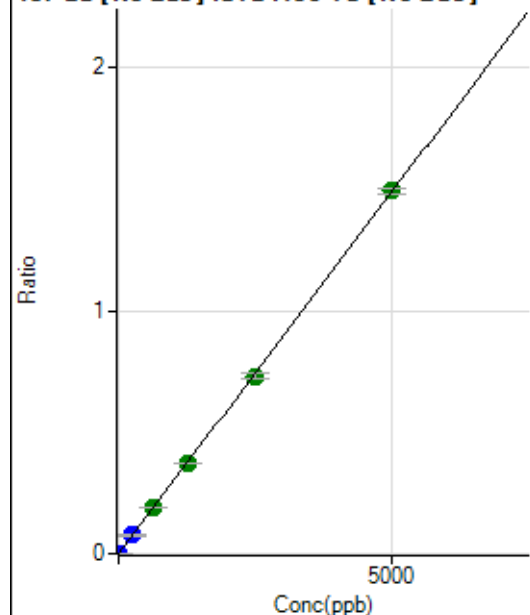
$$R = 0.9999$$

$$DL = 0.008388$$

$$BEC = 0.0121$$

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	22.22	0.0000	P	21.0
2	☐	10.000	10.125	30886.07	0.0030	P	2.4
3	☐	250.000	253.430	793259.98	0.0753	P	1.9
4	☐	625.000	640.256	2040844.75	0.1903	A	2.4
5	☐	1250.000	1251.717	4046597.88	0.3720	A	1.0
6	☐	2500.000	2455.970	8069299.75	0.7298	A	2.7
7	☐	5000.000	5019.507	16537201.24	1.4916	A	1.3
8	☐			7140.94	0.0007	P	3.1

$$y = 2.9716E-004 * x + 2.0964E-006$$

$$R = 0.9999$$

$$DL = 0.004451$$

$$BEC = 0.007055$$

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	50.0
2	☐			6.67		P	100.
3	☐			35.56		P	21.6
4	☐			115.56		P	6.7
5	☐			197.78		P	7.8
6	☐			471.13		P	28.7
7	☐			875.60		P	12.0
8	☐			77.78		P	30.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			3.33		P	100.
3	☐			4.44		P	43.4
4	☐			5.56		P	91.6
5	☐			16.67		P	20.0
6	☐			20.00		P	44.1
7	☐			40.00		P	28.9
8	☐			28.89		P	35.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			2.78		P	173.
3	☐			22.22		P	142.
4	☐			75.00		P	19.2
5	☐			116.67		P	14.3
6	☐			202.79		P	22.6
7	☐			394.46		P	8.0
8	☐			1000.07		P	6.7

156 Dy [He] No available calibration points

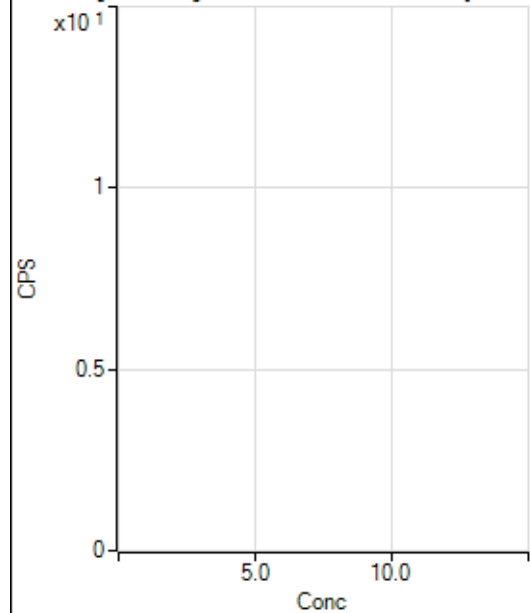
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	0.0
3	☐			12.22		P	15.7
4	☐			16.67		P	40.0
5	☐			45.55		P	15.2
6	☐			76.67		P	8.7
7	☐			144.45		P	4.8
8	☐			291.12		P	4.6

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.34		P	26.5
2	☐			94.45		P	5.1
3	☐			166.67		P	21.8
4	☐			108.34		P	26.6
5	☐			141.67		P	29.4
6	☐			144.45		P	26.0
7	☐			258.34		P	27.6
8	☐			688.93		P	11.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			115.56		P	7.3
2	☐			102.23		P	11.5
3	☐			121.11		P	1.6
4	☐			131.11		P	10.6
5	☐			136.67		P	4.2
6	☐			148.89		P	22.0
7	☐			210.00		P	13.7
8	☐			361.12		P	5.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	34.6
2	☐			58.33		P	65.5
3	☐			36.11		P	13.3
4	☐			55.56		P	43.3
5	☐			41.67		P	40.0
6	☐			55.56		P	45.8
7	☐			83.33		P	36.1
8	☐			77.78		P	48.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.45		P	48.0
2	☐			13.33		P	66.1
3	☐			23.33		P	NaN
4	☐			12.22		P	87.7
5	☐			17.78		P	60.3
6	☐			22.22		P	31.2
7	☐			33.34		P	17.3
8	☐			28.89		P	17.6

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	36.7
2	☐			36.11		P	70.5
3	☐			66.67		P	21.7
4	☐			61.11		P	43.8
5	☐			75.00		P	57.7
6	☐			80.56		P	21.5
7	☐			111.11		P	28.4
8	☐			188.90		P	22.6

172 Yb [He] No available calibration points

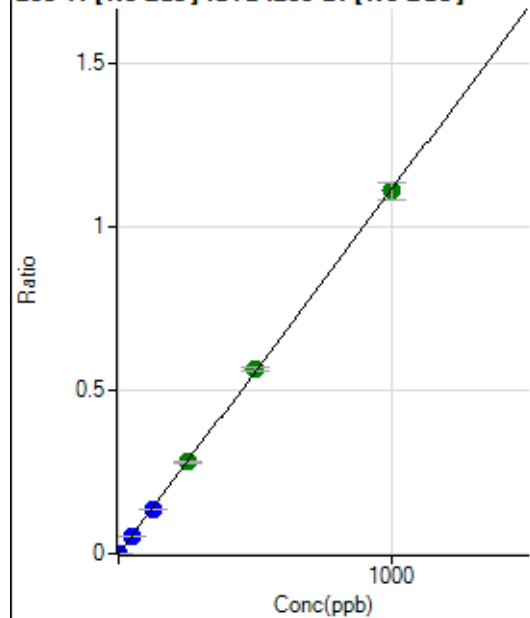
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.93		P	44.6
2	☐			12.96		P	65.4
3	☐			27.78		P	60.0
4	☐			22.22		P	66.1
5	☐			31.48		P	36.7
6	☐			40.74		P	56.8
7	☐			27.78		P	34.6
8	☐			77.78		P	18.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1852.96		P	5.3
2	☐			2033.54		P	4.6
3	☐			2936.51		P	4.2
4	☐			3942.36		P	1.9
5	☐			5940.37		P	2.5
6	☐			9748.31		P	3.0
7	☐			17915.45		P	1.0
8	☐			1950.20		P	3.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8313.90		P	4.2
2	☐			8156.35		P	2.8
3	☐			8426.94		P	3.9
4	☐			8780.83		P	3.0
5	☐			9659.22		P	1.4
6	☐			11646.10		P	2.5
7	☐			14936.49		P	0.4
8	☐			8124.87		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	158.34	0.0000	P	30.2
2	☐	1.000	0.977	6637.98	0.0011	P	3.4
3	☐	50.000	47.330	326033.96	0.0527	P	0.2
4	☐	125.000	120.485	816345.43	0.1341	P	1.2
5	☐	250.000	250.907	1688070.49	0.2793	A	0.8
6	☐	500.000	508.132	3449804.33	0.5656	A	2.0
7	☐	1000.000	996.405	6576103.49	1.1091	A	5.1
8	☐			1966.87	0.0004	P	18.2

$$y = 0.0011 * x + 2.6497E-005$$

$$R = 0.9999$$

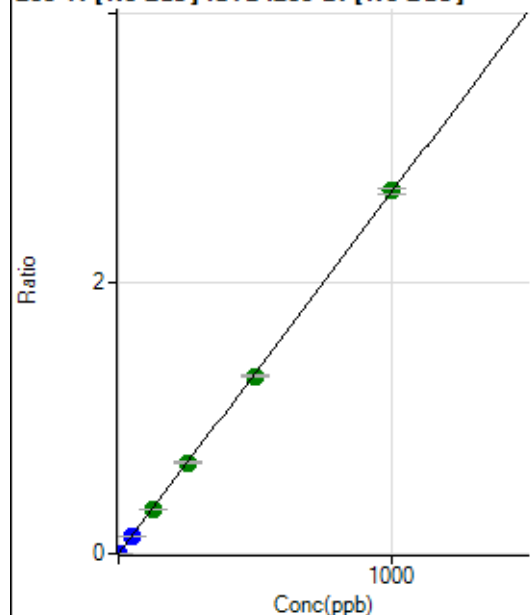
$$DL = 0.02156$$

$$BEC = 0.0238$$

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	544.47	0.0001	P	1.6
2	☐	1.000	0.937	15459.74	0.0026	P	3.4
3	☐	50.000	47.094	778896.65	0.1259	P	0.8
4	☐	125.000	123.884	2015117.15	0.3311	A	1.3
5	☐	250.000	252.337	4075989.20	0.6744	A	3.1
6	☐	500.000	491.610	8012538.20	1.3137	A	1.8
7	☐	1000.000	1003.895	15910505.04	2.6826	A	1.7
8	☐			4887.17	0.0010	P	9.7

$$y = 0.0027 * x + 9.0827E-005$$

$$R = 0.9999$$

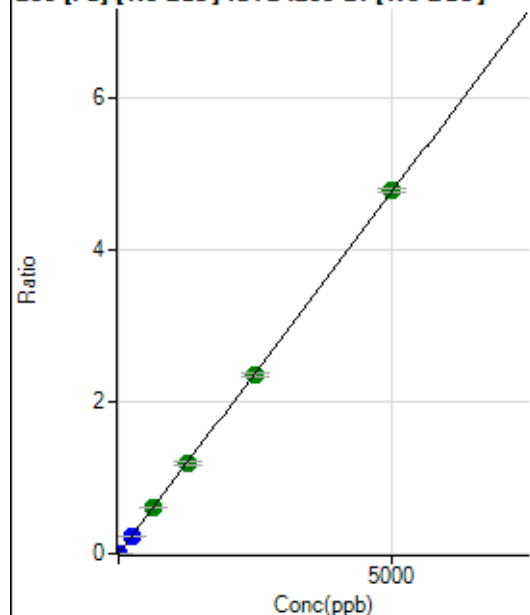
$$DL = 0.001599$$

$$BEC = 0.03399$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	753.74	0.0001	P	8.9
2	☐	1.000	0.959	6203.47	0.0010	P	0.8
3	☐	250.000	230.299	1359047.11	0.2197	P	1.2
4	☐	625.000	631.772	3667026.99	0.6025	A	0.6
5	☐	1250.000	1253.149	7221078.17	1.1950	A	2.7
6	☐	2500.000	2461.613	14315780.30	2.3473	A	2.2
7	☐	5000.000	5018.544	28386644.85	4.7853	A	0.9
8	☐			4847.30	0.0010	P	6.4

$$y = 9.5351E-004 * x + 1.2595E-004$$

$$R = 0.9999$$

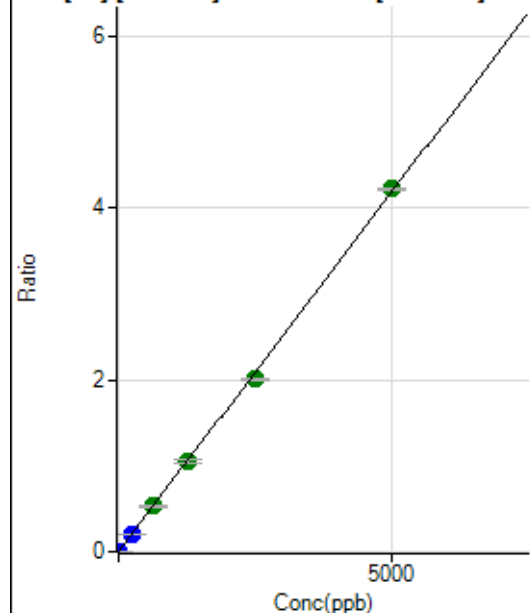
$$DL = 0.03508$$

$$BEC = 0.1321$$

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	742.63	0.0001	P	7.5
2	☐	1.000	0.902	5238.18	0.0009	P	3.1
3	☐	250.000	230.744	1194445.61	0.1931	P	0.7
4	☐	625.000	629.793	3206640.81	0.5268	A	2.1
5	☐	1250.000	1256.452	6350374.85	1.0509	A	3.0
6	☐	2500.000	2400.564	12246216.36	2.0077	A	1.6
7	☐	5000.000	5048.469	25044185.05	4.2220	A	0.8
8	☐			4178.53	0.0008	P	8.4

$$y = 8.3627E-004 * x + 1.2405E-004$$

$$R = 0.9997$$

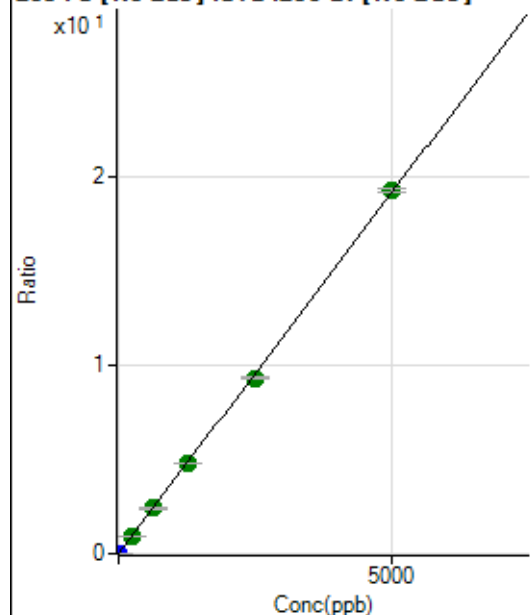
$$DL = 0.03341$$

$$BEC = 0.1483$$

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	3333.58	0.0006	P	6.0
2	☐	1.000	0.916	24220.42	0.0041	P	2.5
3	☐	250.000	239.810	5681923.78	0.9185	A	1.2
4	☐	625.000	627.166	14613572.72	2.4011	A	0.6
5	☐	1250.000	1250.567	28934453.83	4.7873	A	1.1
6	☐	2500.000	2439.182	56951407.06	9.3369	A	1.5
7	☐	5000.000	5030.506	114212059.5	19.2556	A	1.1
8	☐			19198.56	0.0038	P	5.9

$$y = 0.0038 * x + 5.5666E-004$$

$$R = 0.9999$$

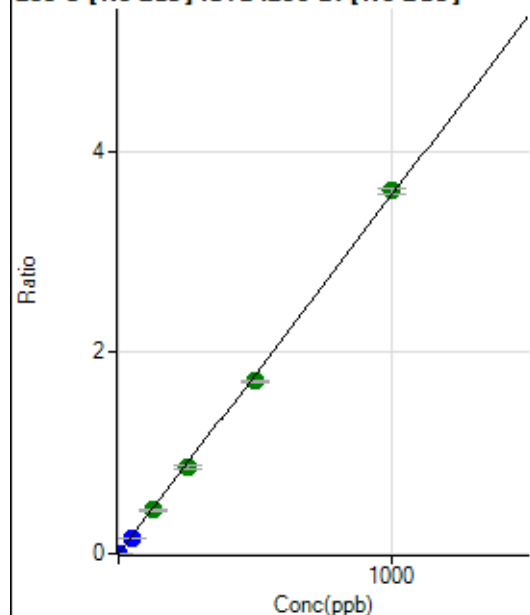
$$DL = 0.02611$$

$$BEC = 0.1454$$

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	16.66	0.0000	P	84.2
2	☐	1.000	0.919	19468.31	0.0033	P	8.3
3	☐	50.000	44.278	975058.38	0.1576	P	2.0
4	☐	125.000	121.050	2622870.13	0.4309	A	1.9
5	☐	250.000	241.952	5204977.59	0.8612	A	2.7
6	☐	500.000	480.984	10442118.90	1.7121	A	1.8
7	☐	1000.000	1012.300	21372966.97	3.6033	A	1.6
8	☐			950.06	0.0002	P	5.1

$$y = 0.0036 * x + 2.7428E-006$$

$$R = 0.9997$$

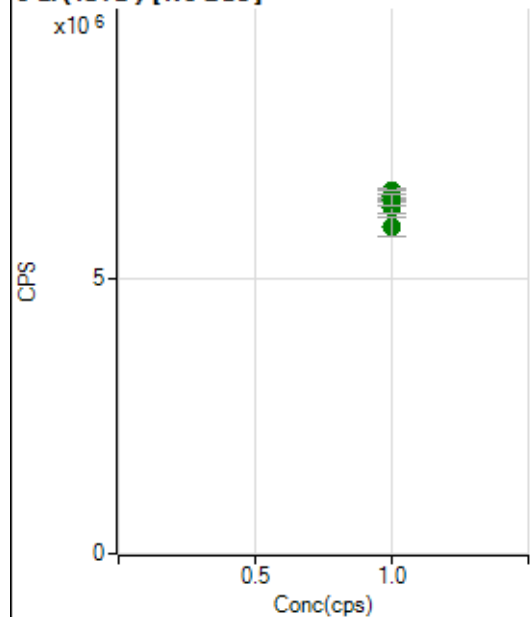
$$DL = 0.001947$$

$$BEC = 0.0007706$$

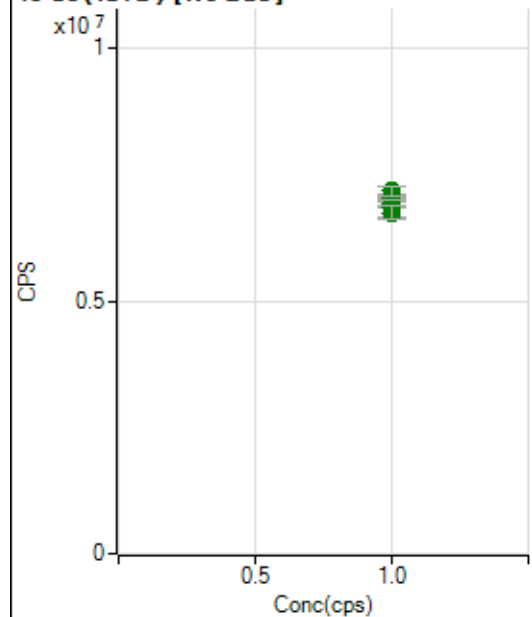
Weight: <None>

Min Conc: 0

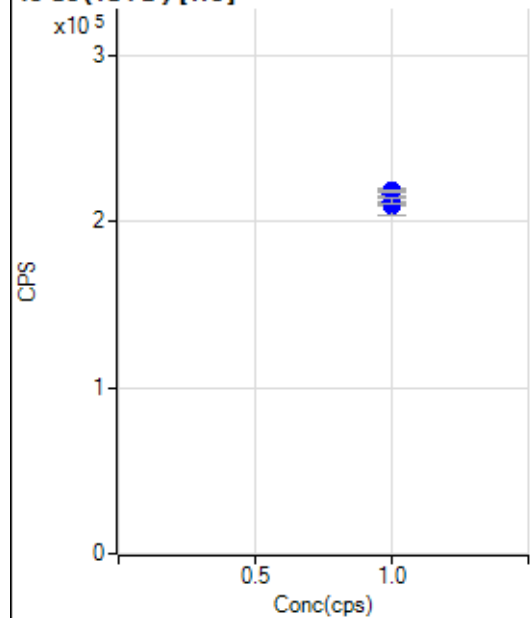
6 Li (ISTD) [No Gas]



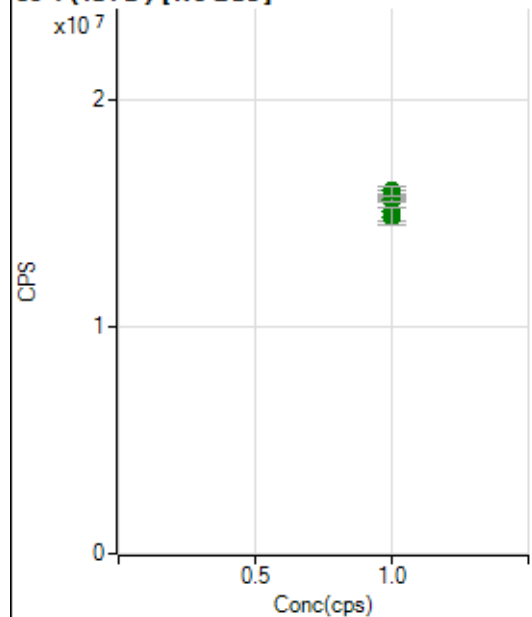
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6461435.09		A	1.7
2	☐	1.000		6281364.06		A	3.5
3	☐	1.000		6519330.30		A	2.4
4	☐	1.000		6492530.27		A	0.9
5	☐	1.000		6582316.96		A	1.8
6	☐	1.000		6502584.58		A	2.7
7	☐	1.000		6423523.27		A	2.9
8	☐	1.000		5935150.72		A	5.9

45 Sc (ISTD) [No Gas]

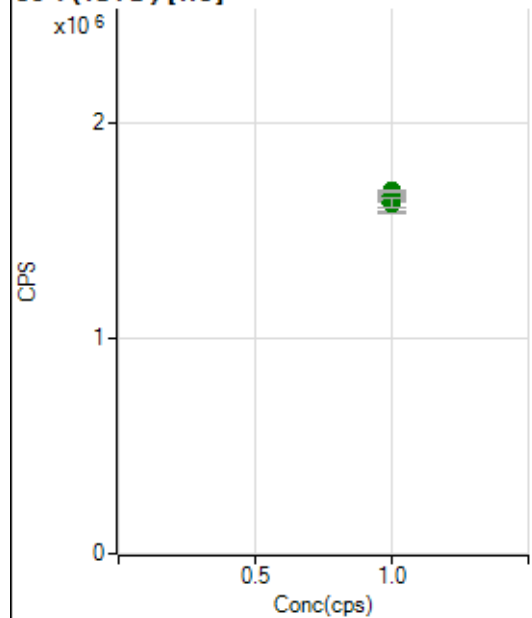
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6911617.88		A	2.2
2	☐	1.000		6836705.38		A	5.6
3	☐	1.000		7025088.51		A	1.0
4	☐	1.000		7007236.42		A	0.8
5	☐	1.000		7061527.32		A	1.9
6	☐	1.000		7062523.78		A	1.6
7	☐	1.000		7183357.88		A	2.5
8	☐	1.000		6752136.84		A	4.1

45 Sc (ISTD) [He]

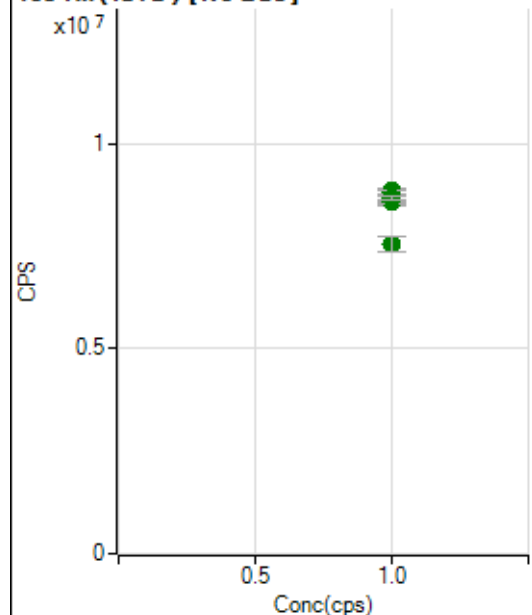
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		214888.72		P	4.4
2	☐	1.000		209284.92		P	5.4
3	☐	1.000		211007.14		P	0.6
4	☐	1.000		210342.67		P	1.3
5	☐	1.000		216283.05		P	1.2
6	☐	1.000		218459.34		P	1.1
7	☐	1.000		218411.23		P	0.3
8	☐	1.000		212459.63		P	1.3

89 Y (ISTD) [No Gas]

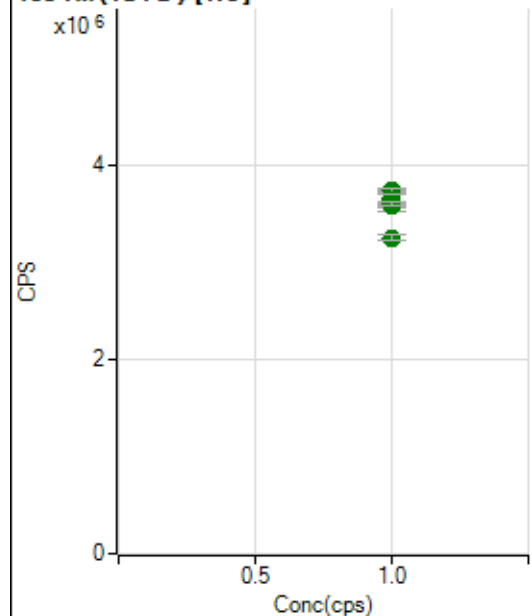
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15820187.26		A	2.1
2	☐	1.000		15107110.47		A	5.9
3	☐	1.000		15725233.24		A	1.5
4	☐	1.000		15769349.49		A	0.9
5	☐	1.000		15624802.26		A	1.2
6	☐	1.000		15631496.43		A	1.3
7	☐	1.000		15997601.43		A	2.6
8	☐	1.000		14875109.08		A	5.5

89 Y (ISTD) [He]

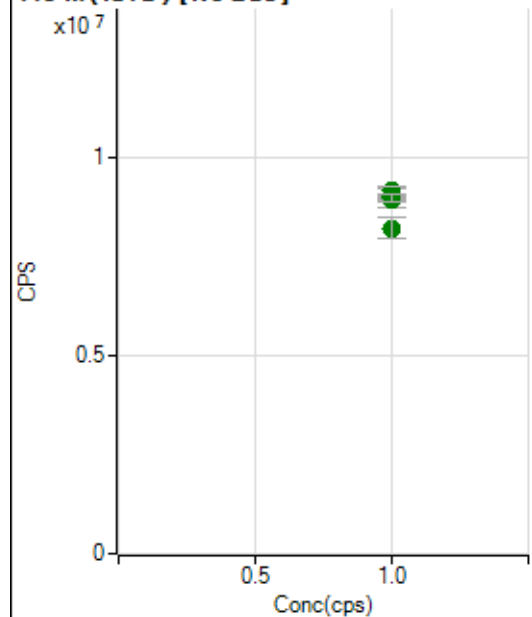
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1619280.11		A	5.4
2	☐	1.000		1635955.24		A	5.6
3	☐	1.000		1657399.77		A	1.4
4	☐	1.000		1624495.95		A	2.6
5	☐	1.000		1648749.04		A	2.0
6	☐	1.000		1662319.18		A	1.7
7	☐	1.000		1682939.33		A	0.7
8	☐	1.000		1628520.19		A	2.8

103 Rh (ISTD) [No Gas]

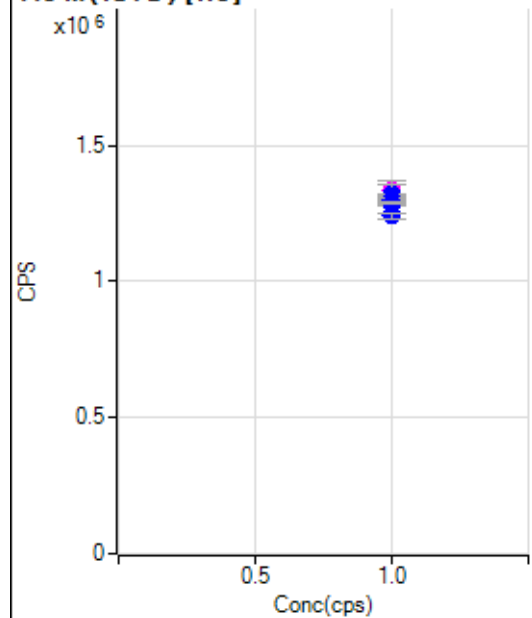
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8842304.62		A	1.3
2	☐	1.000		8612058.00		A	3.2
3	☐	1.000		8821691.52		A	1.8
4	☐	1.000		8675734.39		A	2.2
5	☐	1.000		8811947.07		A	0.9
6	☐	1.000		8575242.12		A	1.2
7	☐	1.000		8665909.92		A	0.7
8	☐	1.000		7542067.53		A	4.8

103 Rh (ISTD) [He]

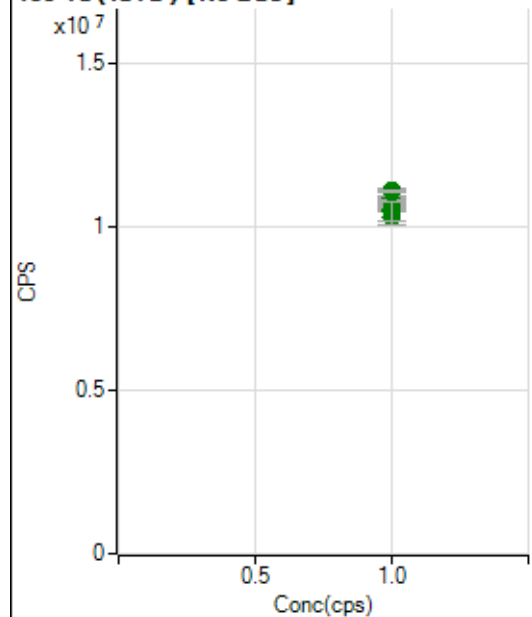
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3611750.47		A	5.5
2	☐	1.000		3646942.76		A	4.9
3	☐	1.000		3654486.54		A	2.2
4	☐	1.000		3567917.66		A	0.8
5	☐	1.000		3728330.85		A	1.5
6	☐	1.000		3645740.95		A	2.5
7	☐	1.000		3603080.81		A	1.1
8	☐	1.000		3245638.50		A	2.1

115 In (ISTD) [No Gas]

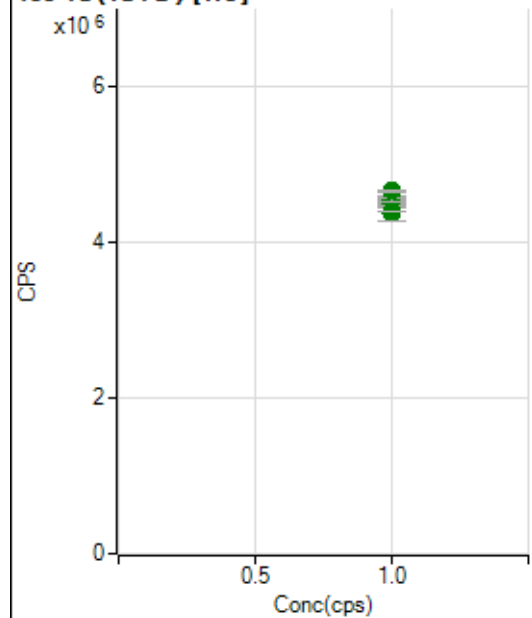
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8936970.13		A	0.9
2	☐	1.000		8966796.22		A	5.5
3	☐	1.000		9139801.18		A	2.8
4	☐	1.000		9004850.90		A	0.8
5	☐	1.000		9020161.59		A	1.3
6	☐	1.000		8914445.43		A	0.4
7	☐	1.000		8961002.09		A	2.3
8	☐	1.000		8207908.41		A	7.0

115 In (ISTD) [He]

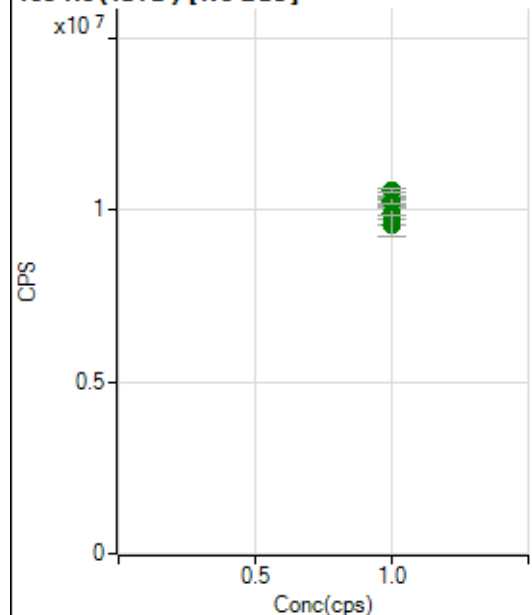
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1332797.56		M	5.5
2	☐	1.000		1318270.64		P	5.7
3	☐	1.000		1316275.33		P	1.0
4	☐	1.000		1304528.90		P	1.1
5	☐	1.000		1309486.74		P	1.4
6	☐	1.000		1299592.59		P	1.0
7	☐	1.000		1287505.38		P	0.7
8	☐	1.000		1240222.59		P	1.7

159 Tb (ISTD) [No Gas]

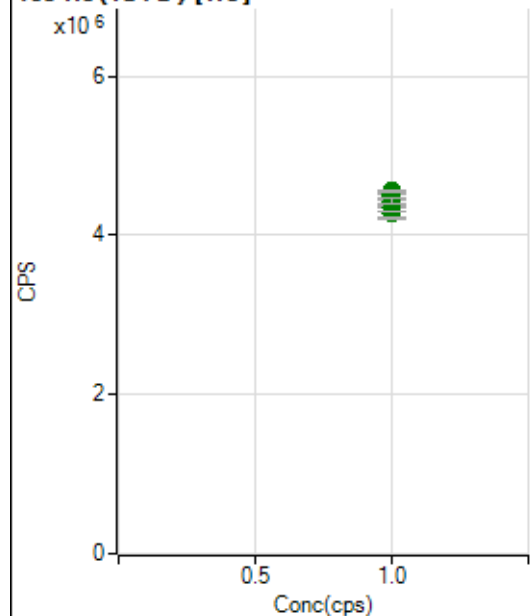
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10590738.66		A	1.8
2	☐	1.000		10264124.57		A	3.9
3	☐	1.000		10535138.39		A	2.0
4	☐	1.000		10730799.57		A	2.7
5	☐	1.000		10878621.64		A	0.9
6	☐	1.000		11059765.11		A	2.1
7	☐	1.000		11086117.61		A	0.9
8	☐	1.000		10478450.54		A	5.5

159 Tb (ISTD) [He]

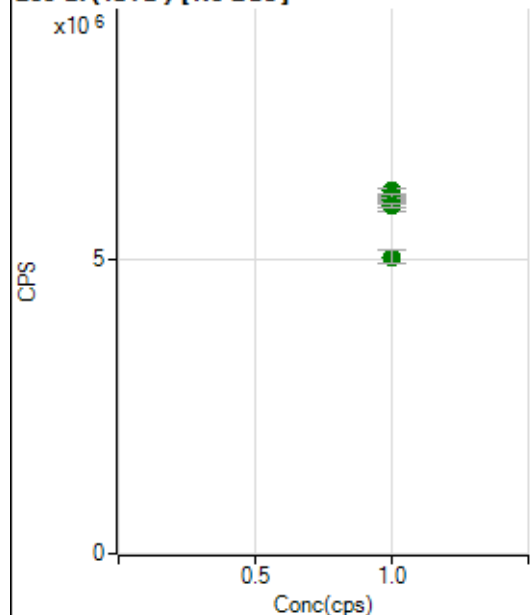
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4372605.00		A	3.9
2	☐	1.000		4409570.56		A	6.2
3	☐	1.000		4446840.25		A	1.9
4	☐	1.000		4485338.61		A	1.1
5	☐	1.000		4538739.96		A	2.7
6	☐	1.000		4550747.50		A	0.8
7	☐	1.000		4661729.20		A	0.7
8	☐	1.000		4396212.64		A	0.3

165 Ho (ISTD) [No Gas]

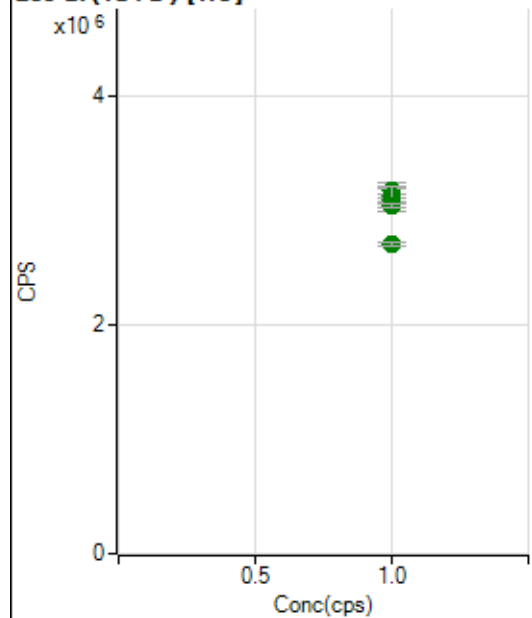
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9905482.60		A	3.4
2	☐	1.000		9845111.42		A	5.6
3	☐	1.000		10222362.90		A	2.4
4	☐	1.000		10275529.14		A	2.3
5	☐	1.000		10247915.16		A	1.5
6	☐	1.000		10291524.62		A	2.2
7	☐	1.000		10563209.61		A	1.1
8	☐	1.000		9553988.32		A	6.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4282131.39		A	2.9
2	☐	1.000		4338833.10		A	5.9
3	☐	1.000		4373393.37		A	1.0
4	☐	1.000		4348099.69		A	1.7
5	☐	1.000		4487714.27		A	1.4
6	☐	1.000		4516985.66		A	2.1
7	☐	1.000		4559839.69		A	0.6
8	☐	1.000		4429190.07		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5996214.91		A	3.3
2	☐	1.000		5962591.58		A	4.5
3	☐	1.000		6185471.78		A	1.7
4	☐	1.000		6086413.17		A	1.4
5	☐	1.000		6044092.55		A	1.9
6	☐	1.000		6100179.08		A	1.5
7	☐	1.000		5931991.30		A	1.5
8	☐	1.000		5056138.57		A	4.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3103520.89		A	7.1
2	☐	1.000		3123591.90		A	8.1
3	☐	1.000		3130286.69		A	1.5
4	☐	1.000		3062163.98		A	0.6
5	☐	1.000		3173953.91		A	1.9
6	☐	1.000		3136121.17		A	4.5
7	☐	1.000		3044193.81		A	0.9
8	☐	1.000		2704849.09		A	1.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8083022-MS.b

Acq. Date-Time 2022-08-30 10:47:01

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		9599	95989.71			2.573	5.000
24		103348	1033482.38			1.521	5.000
25		13634	136337.09			2.258	5.000
26		15672	156721.89			2.759	5.000
59		51376	513755.48			2.213	5.000
113		2854	28538.45			3.751	5.000
115		64266	642662.80			3.382	5.000
206		12514	125137.78			1.486	5.000
207		11297	112967.13			2.791	5.000
208		26896	268957.95			2.543	5.000
220		1	6.90			33.365	

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

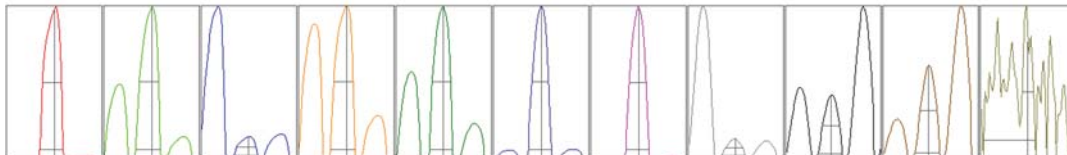
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9785	9723	9174	9714	9599
24	103992	105006	101211	104301	102232
25	13735	13722	13159	13994	13559
26	15832	15951	14915	15932	15730
59	51636	51430	49524	52640	51648
113	2993	2880	2703	2885	2809
115	66404	65260	60879	65351	63438
206	12656	12447	12257	12729	12480
207	11573	11217	10791	11527	11375
208	27048	27091	25695	27372	27273

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	17323.45	9.05	8.90 - 9.10	
24	182477.04	24.05	23.90 - 24.10	
25	23860.47	25.00	24.90 - 25.10	
26	27010.77	26.05	25.90 - 26.10	
59	94275.26	59.00	58.90 - 59.10	
113	5691.53	113.05	112.90 - 113.10	
115	127910.89	115.05	114.90 - 115.10	
206	24136.70	206.00	205.90 - 206.10	
207	21620.15	206.95	206.90 - 207.10	
208	52421.73	207.95	207.90 - 208.10	
220	0.95	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.734	0.900	
24	0.60	0.782	0.900	
25	0.61	0.744	0.900	
26	0.61	0.783	0.900	
59	0.57	0.736	0.900	
113	0.52	0.730	0.900	
115	0.52	0.730	0.900	
206	0.53	0.747	0.900	
207	0.55	0.770	0.900	
208	0.53	0.781	0.900	
220	0.36	1.621		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	16.0 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 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	140 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2303 V	Pulse HV	1627 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9691	96914.07			0.909	
89		18619	186185.91			0.884	
205		50675	506746.80			1.661	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9616	9601	9716	9704	9820
89	18464	18588	18709	18478	18855
205	49542	51401	50409	50408	51614

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	4.0 V
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Extract 2	-160.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	124	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2303 V	Pulse HV	1627 V
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