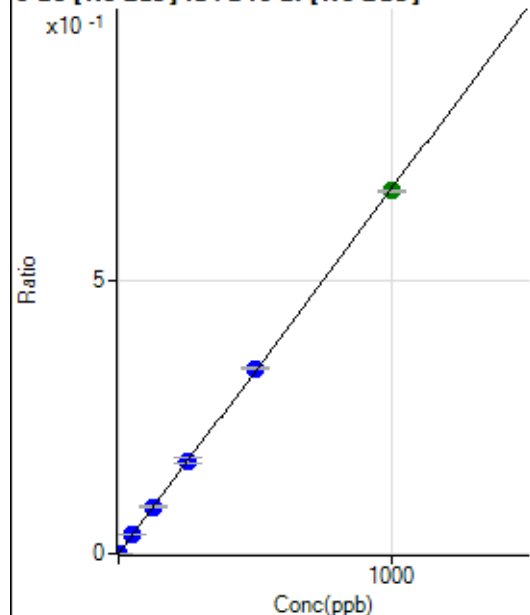


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8022024 MS.b\
 Analysis File: P8022024 MS.batch.bin
 DA Date-Time: 2024-02-20 18:54:34
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-20 14:01:10
2	005CALS.d	S02	2024-02-20 14:04:35
3	006CALS.d	S03	2024-02-20 14:08:02
4	007CALS.d	S04	2024-02-20 14:11:18
5	008CALS.d	S05	2024-02-20 14:14:27
6	009CALS.d	S06	2024-02-20 14:17:30
7	010CALS.d	S07	2024-02-20 14:20:34
8	011CALS.d	S08	2024-02-20 14:23:35

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.66	0.0000	P	2.4
2	☐	1.000	1.050	1470.31	0.0007	P	4.6
3	☐	50.000	51.592	68248.19	0.0346	P	2.1
4	☐	125.000	128.250	165736.56	0.0859	P	2.6
5	☐	250.000	255.410	322934.41	0.1711	P	6.9
6	☐	500.000	507.242	618712.61	0.3397	P	1.5
7	☐	1000.000	994.541	1206868.06	0.6660	A	0.2
8	☐			216.23	0.0001	P	1.9

$$y = 6.6964\text{E-}004 * x + 2.5054\text{E-}005$$

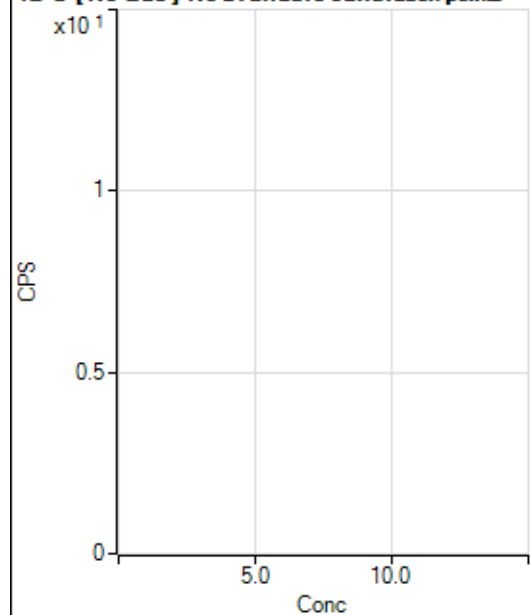
$$R = 0.9999$$

$$DL = 0.00267$$

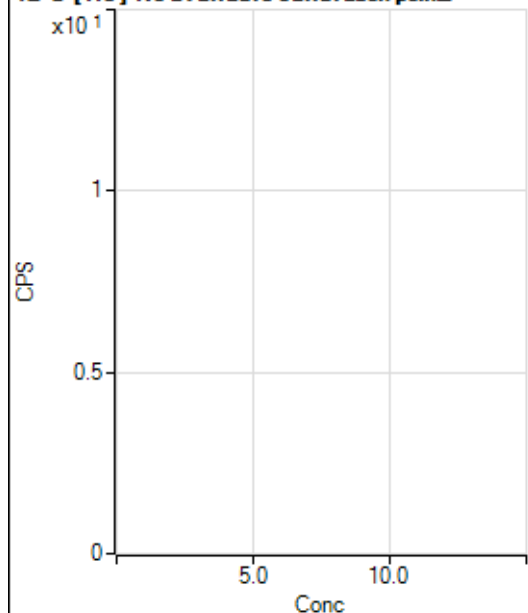
$$BEC = 0.03741$$

Weight: <None>

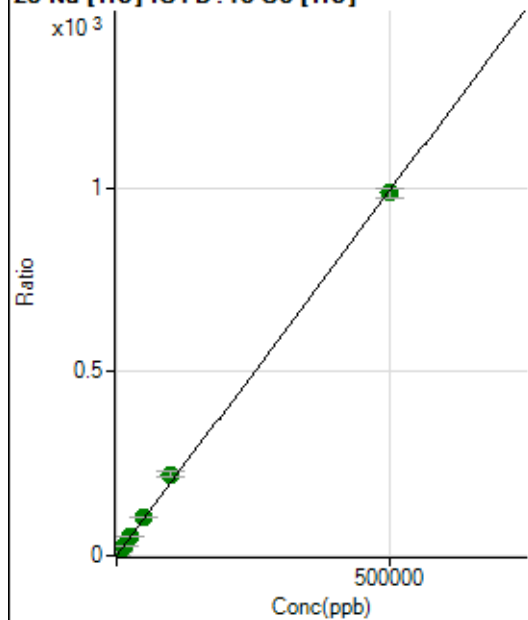
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1647316.73		A	1.1
2	☐			1623268.05		A	2.5
3	☐			1678856.74		A	1.0
4	☐			1680750.88		A	1.8
5	☐			1726709.07		A	2.1
6	☐			1883010.35		A	2.1
7	☐			2218579.62		A	3.7
8	☐			1571321.82		A	1.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21416.79		P	0.5
2	☐			20628.98		P	0.8
3	☐			21612.65		P	1.1
4	☐			22871.20		P	1.5
5	☐			22458.33		P	0.9
6	☐			25919.61		P	0.2
7	☐			32247.60		P	0.6
8	☐			24900.03		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8740.45	0.0835	P	7.2
2	☐	500.000	484.587	115608.11	1.0457	P	2.7
3	☐	5000.000	5260.926	1111690.14	10.5299	A	4.8
4	☐	12500.000	13367.919	2771901.83	26.6278	A	0.5
5	☐	25000.000	26613.826	5420811.62	52.9297	A	1.4
6	☐	50000.000	52979.188	10444756.72	105.2826	A	1.7
7	☐	100000.00	111083.61	20403869.56	220.6588	A	7.2
8	☐	500000.00	497380.37	100811229.6	987.7163	A	2.8

$$y = 0.0020 * x + 0.0835$$

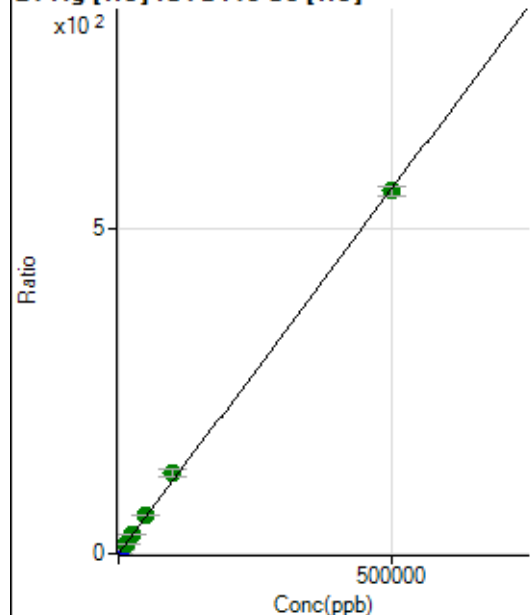
$$R = 0.9997$$

$$DL = 9.128$$

$$BEC = 42.05$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	171.11	0.0016	P	18.2
2	☐	500.000	497.063	61762.53	0.5587	P	3.2
3	☐	5000.000	5364.161	635064.33	6.0135	P	3.4
4	☐	12500.000	13428.679	1566789.82	15.0518	A	1.0
5	☐	25000.000	26510.983	3042871.59	29.7138	A	1.0
6	☐	50000.000	52238.756	5808594.50	58.5481	A	1.1
7	☐	100000.00	110406.49	11436931.77	123.7395	A	8.0
8	☐	500000.00	497592.42	56916329.71	557.6775	A	3.0

$$y = 0.0011 * x + 0.0016$$

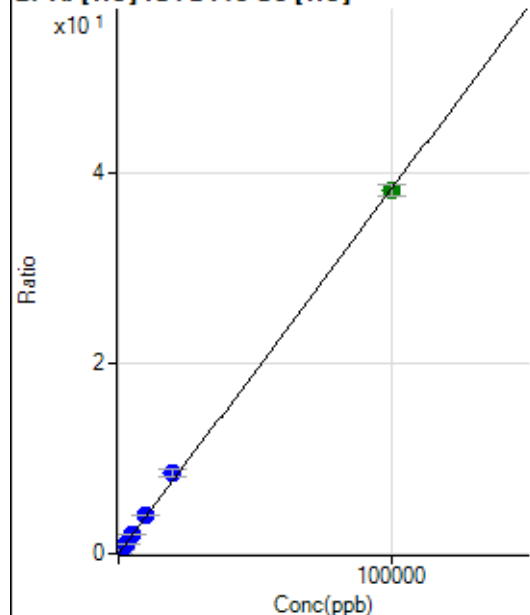
$$R = 0.9998$$

$$DL = 0.7889$$

$$BEC = 1.443$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	70.00	0.0007	P	20.2
2	☐	20.000	20.130	924.48	0.0084	P	3.4
3	☐	1000.000	1062.723	42947.75	0.4067	P	4.2
4	☐	2500.000	2657.992	105800.31	1.0163	P	1.1
5	☐	5000.000	5245.640	205340.25	2.0051	P	0.5
6	☐	10000.000	10500.730	398169.36	4.0131	P	0.6
7	☐	20000.000	22110.427	780746.77	8.4493	P	8.5
8	☐	100000.00	99510.983	3880850.64	38.0248	A	3.1

$$y = 3.8211E-004 * x + 6.7074E-004$$

$$R = 0.9998$$

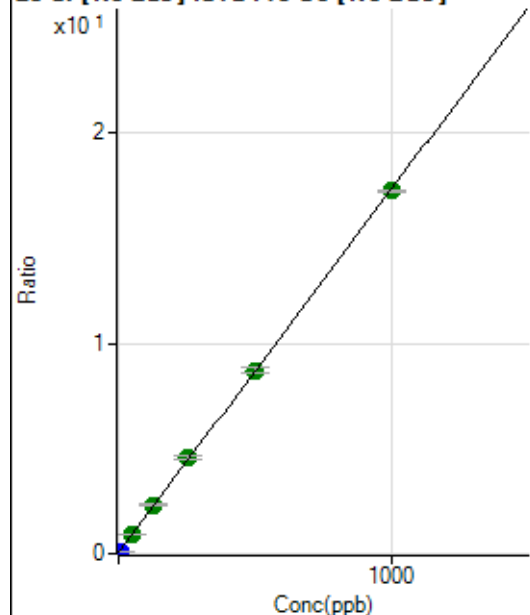
$$DL = 1.065$$

$$BEC = 1.755$$

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	156114.98	0.0487	P	1.6
2	☐	10.000	0.349	174460.69	0.0548	P	1.8
3	☐	50.000	52.076	2983243.53	0.9481	A	1.3
4	☐	125.000	130.481	6945131.08	2.3021	A	3.4
5	☐	250.000	263.102	13514439.80	4.5924	A	3.2
6	☐	500.000	502.144	25720931.56	8.7205	A	3.0
7	☐	1000.000	994.960	49666143.70	17.2312	A	0.5
8	☐			327964.13	0.1207	P	1.7

$$y = 0.0173 * x + 0.0487$$

$$R = 0.9998$$

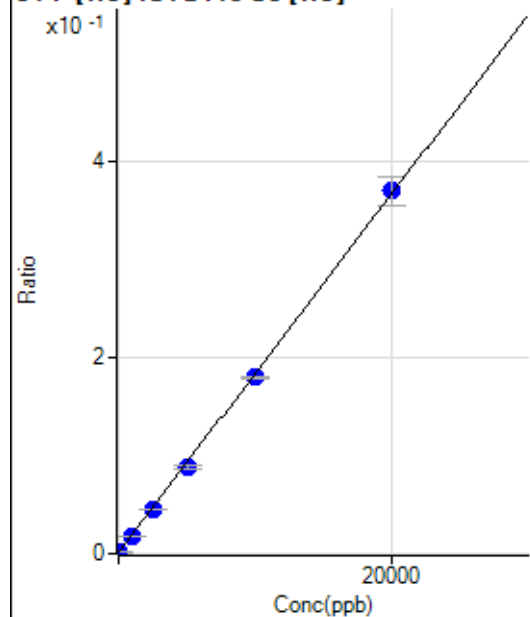
$$DL = 0.137$$

$$BEC = 2.822$$

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	-14.320	98.89	0.0009	P	4.8
2	☐	0.000	14.320	162.22	0.0015	P	5.0
3	☐	1000.000	941.214	1945.71	0.0184	P	1.8
4	☐	2500.000	2417.965	4728.60	0.0454	P	3.0
5	☐	5000.000	4795.193	9101.82	0.0889	P	3.9
6	☐	10000.000	9767.741	17841.06	0.1798	P	1.1
7	☐	20000.000	20180.525	34221.45	0.3702	P	7.8
8	☐			112.22	0.0011	P	24.8

$$y = 1.8286E-005 * x + 0.0012$$

$$R = 0.9998$$

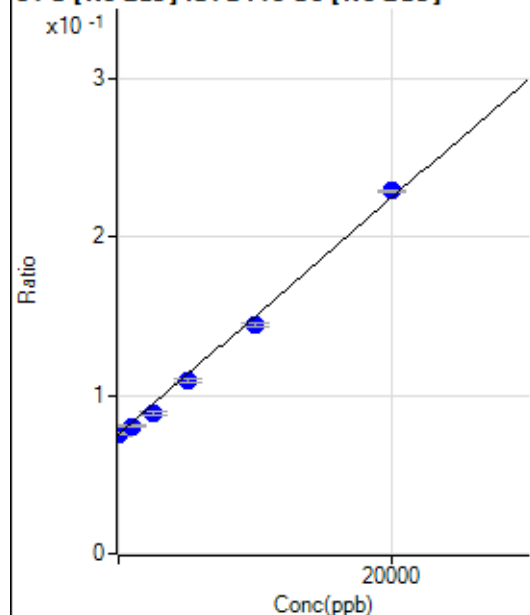
$$DL = 9.77$$

$$BEC = 65.86$$

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	-104.930	239584.07	0.0748	P	1.1
2	☐	0.000	104.930	243241.63	0.0764	P	1.4
3	☐	1000.000	647.020	253108.35	0.0804	P	1.8
4	☐	2500.000	1820.548	269111.11	0.0892	P	2.8
5	☐	5000.000	4564.997	322882.61	0.1097	P	2.1
6	☐	10000.000	9268.962	427320.71	0.1449	P	1.5
7	☐	20000.000	20576.850	661134.98	0.2294	P	0.3
8	☐			198818.25	0.0732	P	2.9

$$y = 7.4736\text{E-}006 * x + 0.0756$$

$$R = 0.9985$$

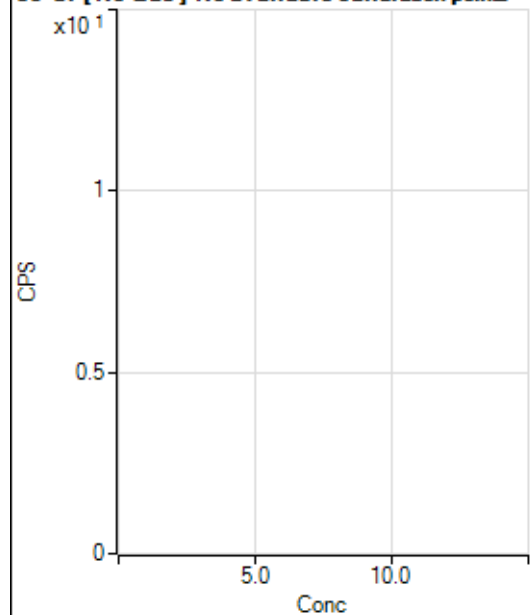
$$DL = 381.4$$

$$BEC = 1.011\text{E}+04$$

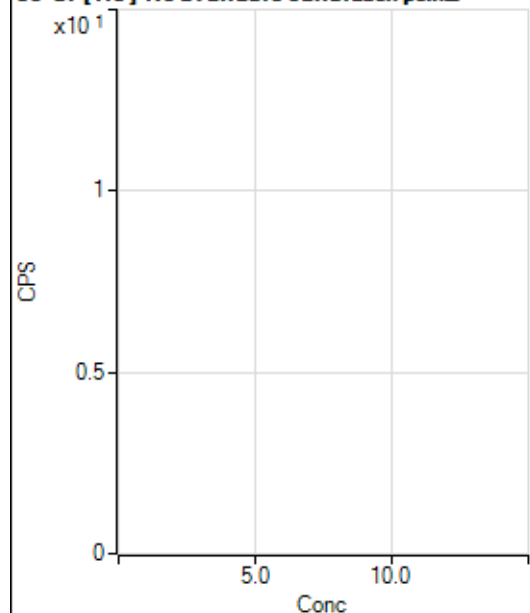
Weight: <None>

Min Conc: 0

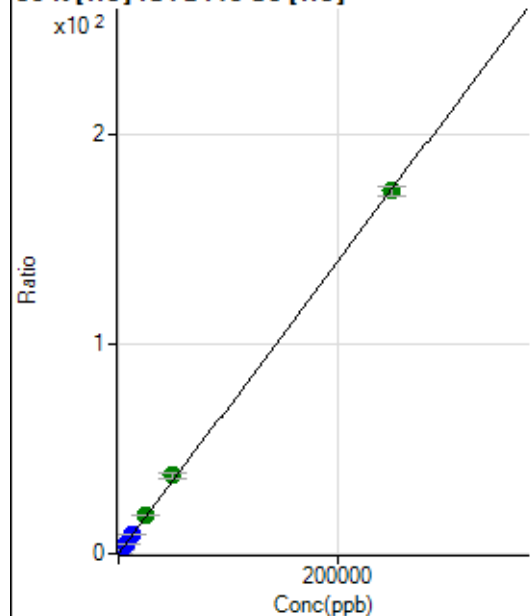
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			90351.98		P	7.6
2	☐			89023.47		P	7.3
3	☐			101600.73		P	6.1
4	☐			110336.82		P	4.8
5	☐			154894.92		P	2.1
6	☐			245623.30		P	0.3
7	☐			434725.18		P	3.0
8	☐			82100.11		P	5.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			613.36		P	8.6
2	☐			584.46		P	8.6
3	☐			646.69		P	5.9
4	☐			765.58		P	3.1
5	☐			1072.27		P	3.6
6	☐			1693.45		P	5.2
7	☐			3222.62		P	3.6
8	☐			532.24		P	2.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5528.88	0.0528	P	6.5
2	☐	500.000	481.951	42863.59	0.3877	P	2.3
3	☐	2500.000	2601.121	196466.68	1.8602	P	3.1
4	☐	6250.000	6484.920	474582.28	4.5590	P	0.5
5	☐	12500.000	12893.958	922917.04	9.0124	P	0.9
6	☐	25000.000	25942.959	1793826.43	18.0797	A	1.2
7	☐	50000.000	53632.238	3448929.15	37.3201	A	8.2
8	☐	250000.00	249152.71	17677036.68	173.1811	A	2.5

$$y = 6.9487\text{E-}004 * x + 0.0528$$

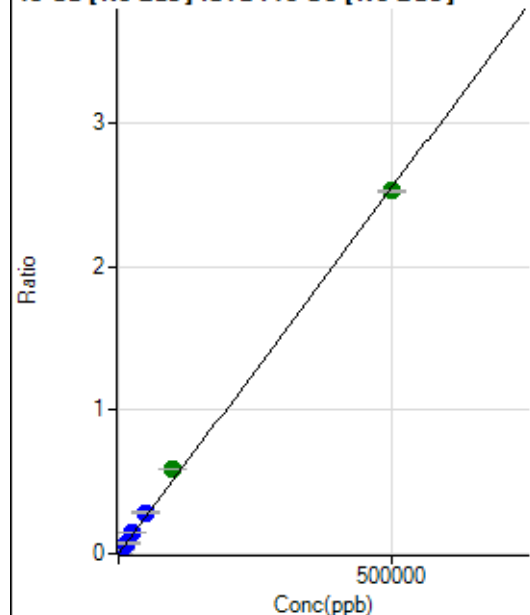
$$R = 0.9999$$

$$DL = 14.85$$

$$BEC = 75.99$$

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	156.67	0.0000	P	11.0
2	☐	500.000	474.985	7875.55	0.0025	P	2.0
3	☐	5000.000	5748.913	92460.22	0.0294	P	1.6
4	☐	12500.000	14375.235	221499.32	0.0734	P	2.2
5	☐	25000.000	29280.909	439828.09	0.1495	P	3.0
6	☐	50000.000	56182.622	845803.12	0.2867	P	2.3
7	☐	100000.00	114934.94	1690633.21	0.5865	A	0.8
8	☐	500000.00	496126.35	6877471.77	2.5317	A	0.8

$$y = 5.1029\text{E-}006 * x + 4.8931\text{E-}005$$

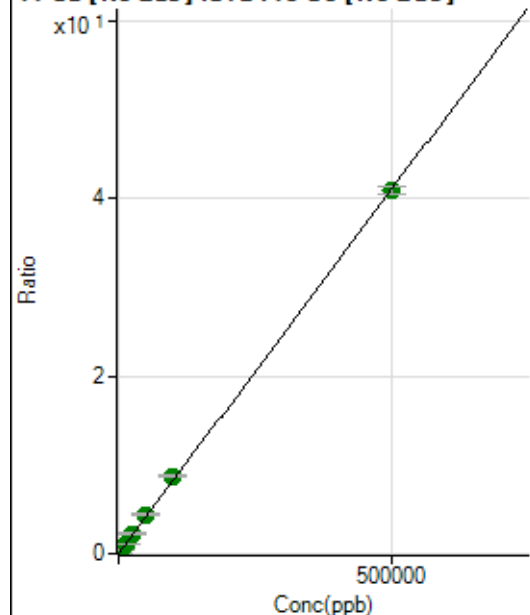
$$R = 0.9995$$

$$DL = 3.178$$

$$BEC = 9.589$$

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	21264.74	0.0066	P	2.2
2	☐	500.000	486.532	148105.71	0.0465	P	0.1
3	☐	5000.000	5512.248	1441628.97	0.4582	A	2.1
4	☐	12500.000	13683.999	3402091.02	1.1276	A	3.0
5	☐	25000.000	27482.942	6646766.64	2.2580	A	1.6
6	☐	50000.000	53752.641	13008621.89	4.4099	A	2.0
7	☐	100000.00	106819.58	25241205.74	8.7570	A	0.8
8	☐	500000.00	498101.96	110849871.6	40.8099	A	2.2

$$y = 8.1918\text{E-}005 * x + 0.0066$$

$$R = 0.9999$$

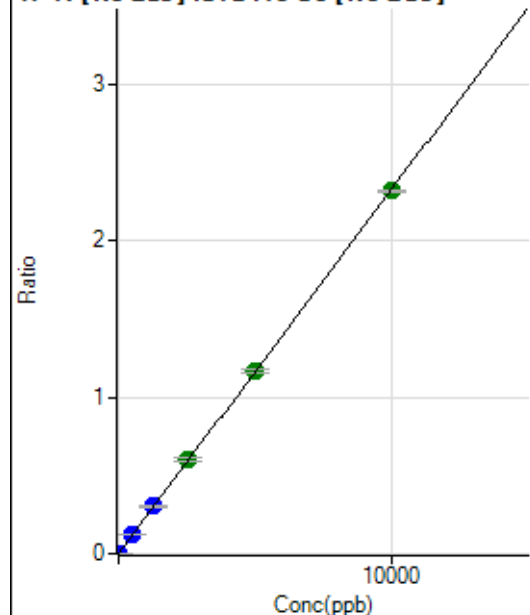
$$DL = 5.269$$

$$BEC = 81.05$$

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	62.22	0.0000	P	26.3
2	☐	5.000	4.899	3688.29	0.0012	P	1.7
3	☐	500.000	515.679	377173.24	0.1199	P	1.3
4	☐	1250.000	1299.958	911759.47	0.3021	P	2.0
5	☐	2500.000	2595.435	1775168.39	0.6032	A	3.1
6	☐	5000.000	5013.252	3436889.81	1.1651	A	1.9
7	☐	10000.000	9962.487	6673817.13	2.3154	A	0.2
8	☐			1420.09	0.0005	P	1.3

$$y = 2.3241\text{E-}004 * x + 1.9471\text{E-}005$$

$$R = 0.9999$$

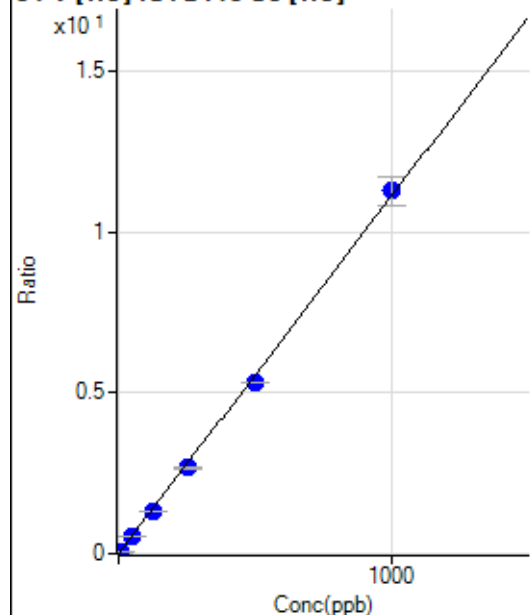
$$DL = 0.06604$$

$$BEC = 0.08378$$

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	6.67	0.0001	P	49.0
2	☐	5.000	4.569	5624.50	0.0509	P	2.7
3	☐	50.000	48.227	56649.33	0.5365	P	3.7
4	☐	125.000	119.553	138426.36	1.3298	P	0.6
5	☐	250.000	240.758	274218.85	2.6778	P	1.6
6	☐	500.000	477.280	526695.64	5.3085	P	0.4
7	☐	1000.000	1014.442	1042875.75	11.2830	P	7.9
8	☐			450.01	0.0044	P	16.2

$$y = 0.0111 * x + 6.3844\text{E-}005$$

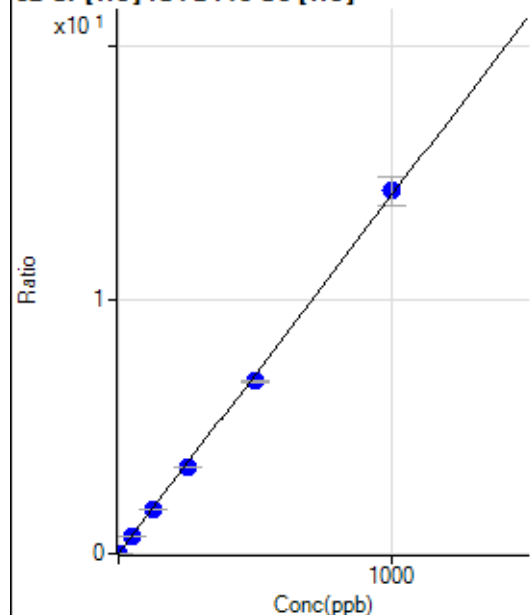
$$R = 0.9996$$

$$DL = 0.008433$$

$$BEC = 0.00574$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	707.80	0.0068	P	11.1
2	☐	2.000	1.764	3498.24	0.0316	P	1.4
3	☐	50.000	48.524	72951.41	0.6908	P	3.2
4	☐	125.000	120.820	177989.83	1.7098	P	0.4
5	☐	250.000	240.885	348411.54	3.4023	P	1.0
6	☐	500.000	480.378	672489.52	6.7782	P	0.4
7	☐	1000.000	1012.686	1320100.55	14.2816	P	7.8
8	☐			29400.33	0.2880	P	2.9

$$y = 0.0141 * x + 0.0068$$

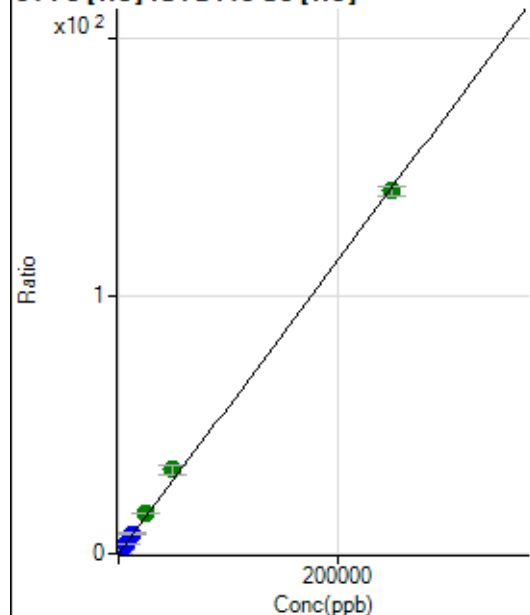
$$R = 0.9997$$

$$DL = 0.1604$$

$$BEC = 0.4806$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	232.23	0.0022	P	12.6
2	☐	50.000	50.812	3434.89	0.0311	P	1.6
3	☐	2500.000	2782.851	167044.96	1.5817	P	3.1
4	☐	6250.000	6912.633	408647.68	3.9257	P	0.5
5	☐	12500.000	13776.262	800924.20	7.8213	P	1.3
6	☐	25000.000	27551.549	1551834.92	15.6398	A	1.8
7	☐	50000.000	57283.525	3002939.96	32.5149	A	9.5
8	☐	250000.00	248204.93	14379968.95	140.8770	A	2.4

$$y = 5.6757E-004 * x + 0.0022$$

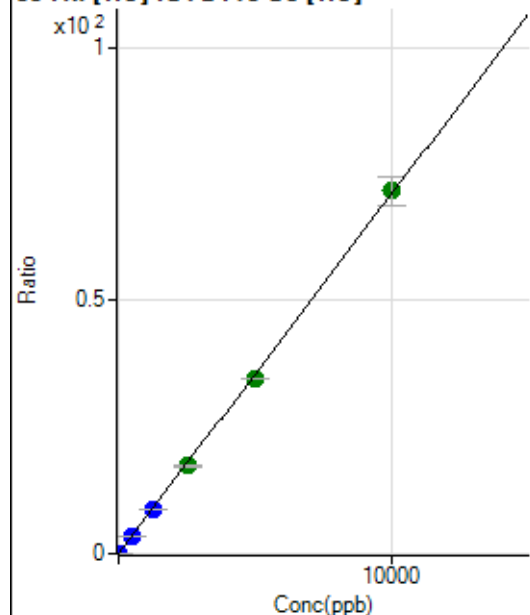
$$R = 0.9995$$

$$DL = 1.487$$

$$BEC = 3.918$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0004	P	41.4
2	☐	1.000	0.900	746.70	0.0068	P	8.3
3	☐	500.000	495.619	372041.78	3.5226	P	3.0
4	☐	1250.000	1222.851	904697.60	8.6909	P	0.3
5	☐	2500.000	2440.558	1776130.96	17.3449	A	1.9
6	☐	5000.000	4862.668	3428757.31	34.5583	A	0.3
7	☐	10000.000	10087.139	6625178.03	71.6876	A	8.2
8	☐			5377.73	0.0527	P	1.6

$$y = 0.0071 * x + 3.5553E-004$$

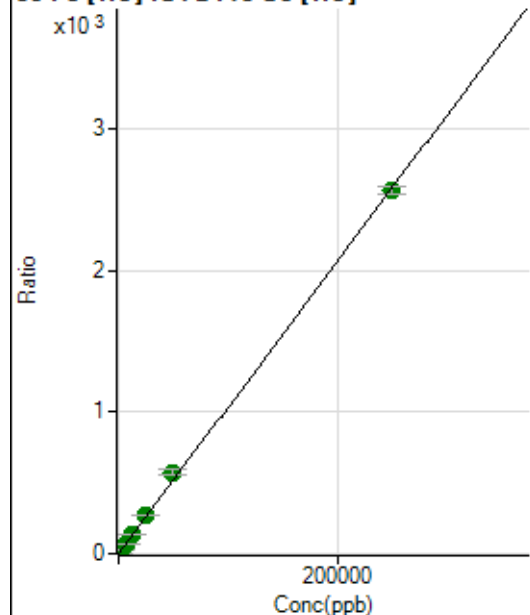
$$R = 0.9998$$

$$DL = 0.06212$$

$$BEC = 0.05003$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1406.75	0.0134	P	3.6
2	☐	50.000	52.158	60885.94	0.5507	P	1.6
3	☐	2500.000	2760.802	3004309.16	28.4513	A	4.0
4	☐	6250.000	6733.496	7221820.80	69.3724	A	1.2
5	☐	12500.000	13618.789	14367331.31	140.2950	A	0.9
6	☐	25000.000	26795.920	27385553.76	276.0273	A	0.5
7	☐	50000.000	55939.776	53241844.21	576.2263	A	8.6
8	☐	250000.00	248561.81	261334993.8	2,560.347	A	2.3

$$y = 0.0103 * x + 0.0134$$

$$R = 0.9997$$

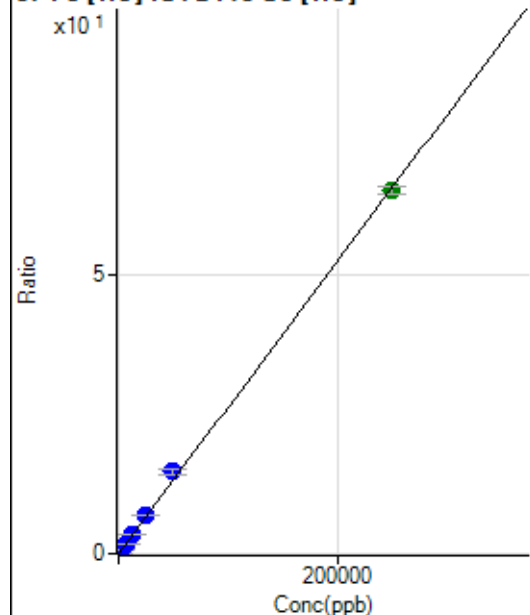
$$DL = 0.1394$$

$$BEC = 1.302$$

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	60.00	0.0006	P	23.8
2	☐	50.000	52.847	1594.55	0.0144	P	5.5
3	☐	2500.000	2718.642	75339.94	0.7134	P	3.3
4	☐	6250.000	6834.520	186597.38	1.7926	P	0.3
5	☐	12500.000	13590.714	364969.68	3.5640	P	1.1
6	☐	25000.000	26793.931	697077.47	7.0259	P	0.6
7	☐	50000.000	56391.860	1366866.58	14.7865	P	7.7
8	☐	250000.00	248470.89	6650179.55	65.1495	A	2.0

$$y = 2.6220\text{E-}004 * x + 5.6526\text{E-}004$$

$$R = 0.9996$$

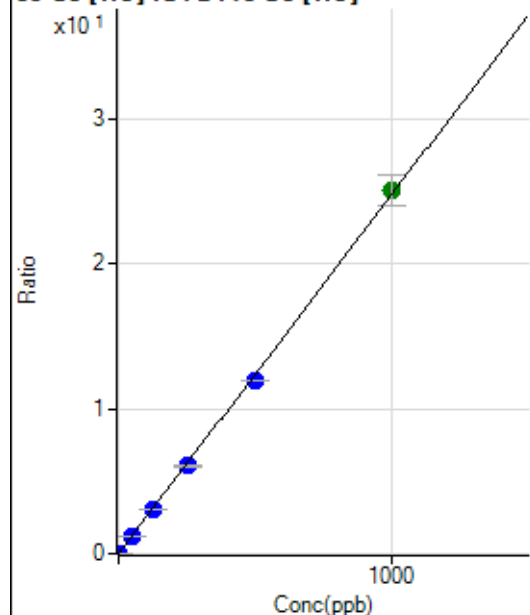
$$DL = 1.541$$

$$BEC = 2.156$$

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	43.34	0.0004	P	22.5
2	☐	1.000	0.990	2756.96	0.0249	P	2.6
3	☐	50.000	49.763	130284.65	1.2336	P	3.2
4	☐	125.000	122.046	314886.61	3.0249	P	0.7
5	☐	250.000	244.122	619565.81	6.0501	P	0.8
6	☐	500.000	481.896	1184901.83	11.9426	P	0.8
7	☐	1000.000	1010.903	2314756.84	25.0523	A	8.6
8	☐			5671.19	0.0556	P	3.4

$$y = 0.0248 * x + 4.1094\text{E-}004$$

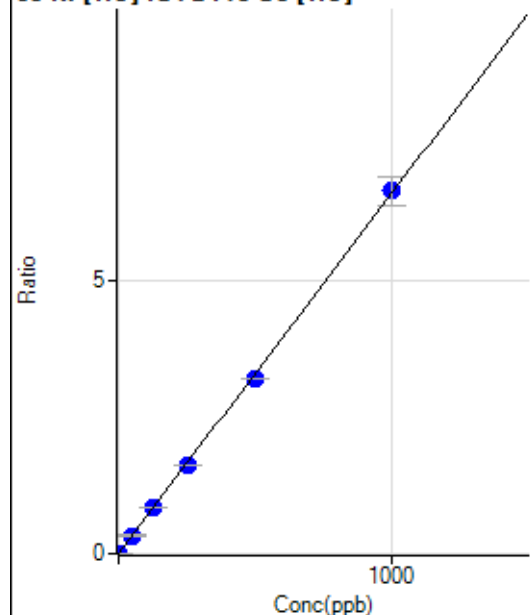
$$R = 0.9997$$

$$DL = 0.01118$$

$$BEC = 0.01658$$

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	52.22	0.0005	P	16.2
2	☐	1.000	0.953	748.92	0.0068	P	6.0
3	☐	50.000	50.018	34854.91	0.3301	P	3.7
4	☐	125.000	126.232	86631.81	0.8322	P	0.7
5	☐	250.000	246.089	166092.10	1.6220	P	1.7
6	☐	500.000	486.905	318357.78	3.2087	P	0.2
7	☐	1000.000	1007.370	613606.37	6.6380	P	7.7
8	☐			8747.21	0.0857	P	4.6

$$y = 0.0066 * x + 4.9709E-004$$

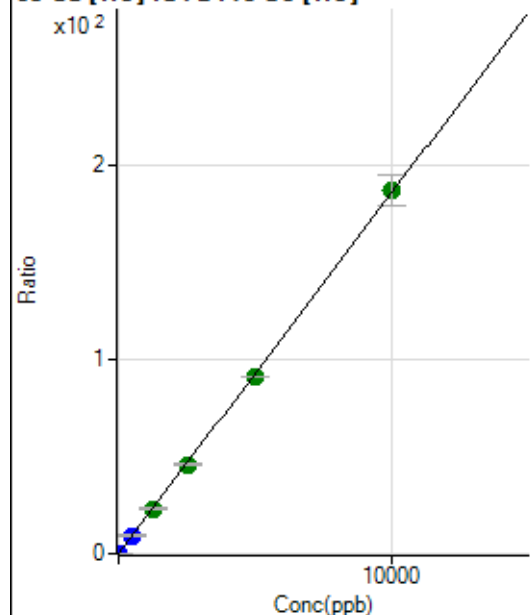
$$R = 0.9999$$

$$DL = 0.03661$$

$$BEC = 0.07544$$

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	551.13	0.0053	P	13.4
2	☐	2.000	1.946	4570.79	0.0413	P	3.5
3	☐	500.000	505.880	990870.58	9.3813	P	2.7
4	☐	1250.000	1249.949	2412152.15	23.1720	A	1.1
5	☐	2500.000	2478.006	4703845.24	45.9329	A	0.5
6	☐	5000.000	4893.496	8999341.39	90.7018	A	0.6
7	☐	10000.000	10058.463	17228070.58	186.4299	A	8.3
8	☐			5235.47	0.0513	P	2.7

$$y = 0.0185 * x + 0.0053$$

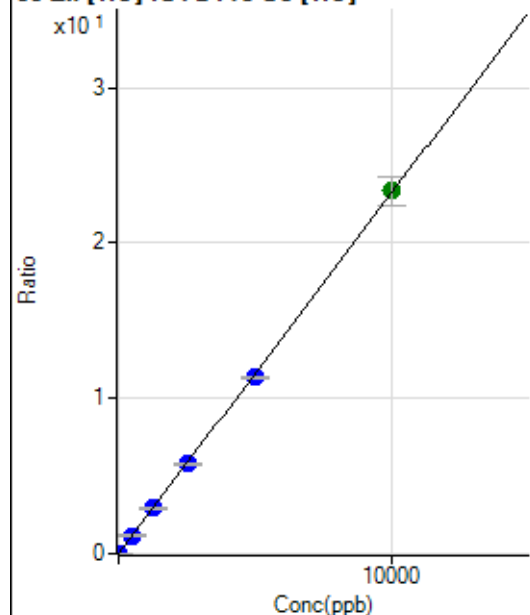
$$R = 0.9999$$

$$DL = 0.1147$$

$$BEC = 0.2845$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0014	P	12.7
2	☐	2.000	4.896	1406.75	0.0127	P	6.0
3	☐	500.000	505.416	123974.98	1.1742	P	4.4
4	☐	1250.000	1252.968	302815.94	2.9089	P	0.8
5	☐	2500.000	2482.146	589971.19	5.7612	P	1.1
6	☐	5000.000	4880.799	1123865.08	11.3274	P	0.3
7	☐	10000.000	10063.422	2158641.67	23.3538	A	7.9
8	☐			2865.87	0.0281	P	4.1

$$y = 0.0023 * x + 0.0014$$

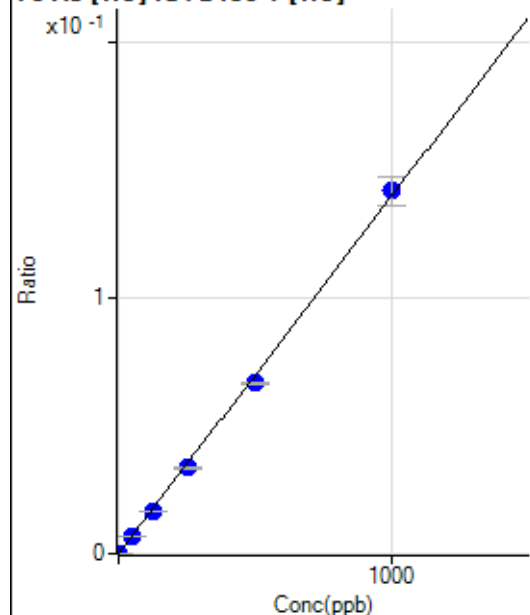
$$R = 0.9999$$

$$DL = 0.2239$$

$$BEC = 0.5892$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	1.037	142.23	0.0001	P	4.4
3	☐	50.000	47.352	6148.07	0.0066	P	4.4
4	☐	125.000	117.274	15069.29	0.0164	P	1.9
5	☐	250.000	239.576	30113.33	0.0335	P	0.3
6	☐	500.000	477.109	58035.65	0.0667	P	1.1
7	☐	1000.000	1015.150	113227.23	0.1419	P	8.0
8	☐			67.78	0.0001	P	21.5

$$y = 1.3980E-004 * x + 2.2964E-006$$

$$R = 0.9995$$

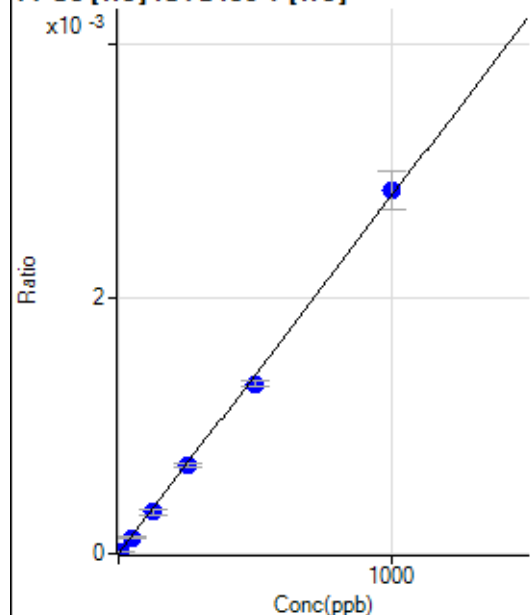
$$DL = 0.04268$$

$$BEC = 0.01643$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.930	13.33	0.0000	P	25.6
3	☐	50.000	45.661	118.89	0.0001	P	3.6
4	☐	125.000	116.810	301.12	0.0003	P	14.6
5	☐	250.000	247.316	623.35	0.0007	P	4.0
6	☐	500.000	475.670	1160.06	0.0013	P	4.0
7	☐	1000.000	1014.077	2265.77	0.0028	P	10.7
8	☐			16.66	0.0000	P	31.8

$$y = 2.8032\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

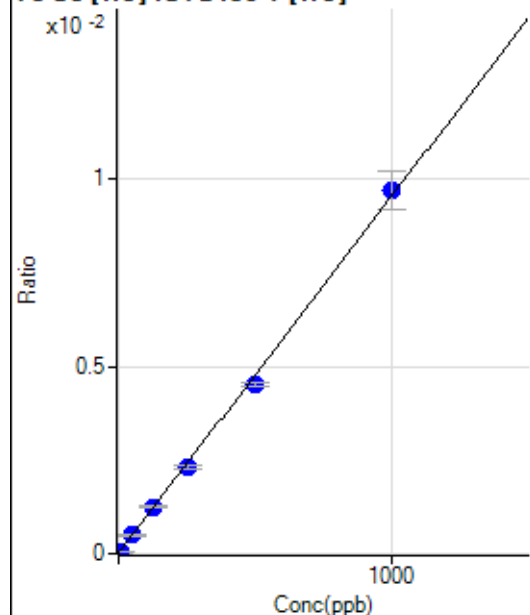
$$DL = 0$$

$$BEC = 0$$

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	13.33	0.0000	P	56.1
2	☐	5.000	4.022	51.11	0.0001	P	26.7
3	☐	50.000	50.885	463.35	0.0005	P	7.1
4	☐	125.000	128.473	1137.84	0.0012	P	4.5
5	☐	250.000	240.007	2067.95	0.0023	P	4.0
6	☐	500.000	473.059	3932.81	0.0045	P	3.2
7	☐	1000.000	1015.495	7716.63	0.0097	P	10.6
8	☐			52.22	0.0001	P	9.1

$$y = 9.5218\text{E-}006 * x + 1.4658\text{E-}005$$

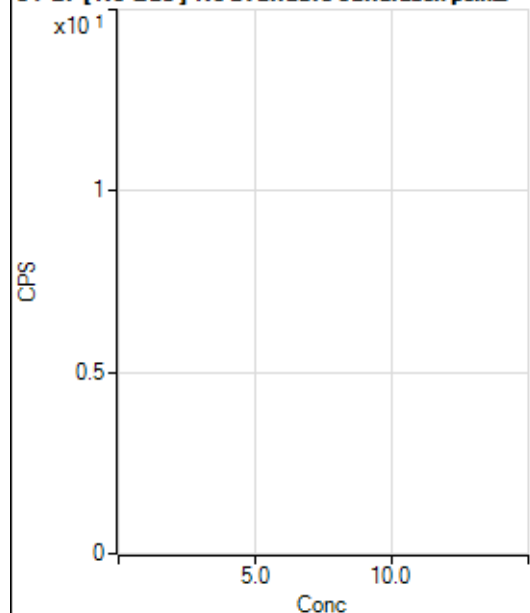
$$R = 0.9994$$

$$DL = 2.59$$

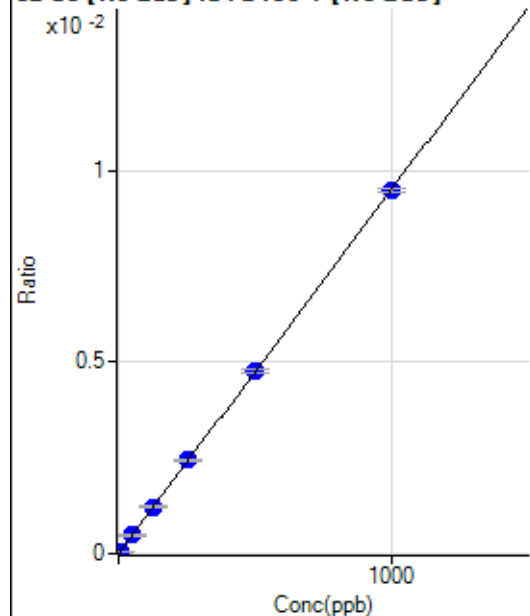
$$BEC = 1.539$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1813.47		P	4.7
2	☐			1760.13		P	5.2
3	☐			1635.67		P	2.9
4	☐			1605.66		P	2.0
5	☐			1634.56		P	0.7
6	☐			1645.67		P	1.0
7	☐			1717.90		P	3.4
8	☐			2656.95		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-21.11	0.0000	P	-64.
2	☐	5.000	5.321	442.23	0.0000	P	4.1
3	☐	50.000	51.528	4337.43	0.0005	P	5.6
4	☐	125.000	128.588	10510.83	0.0012	P	3.1
5	☐	250.000	256.614	20873.68	0.0024	P	3.1
6	☐	500.000	503.024	40285.00	0.0048	P	1.9
7	☐	1000.000	996.308	78084.67	0.0095	P	1.1
8	☐			376.68	0.0000	P	1.8

$$y = 9.5009E-006 * x - 2.3137E-006$$

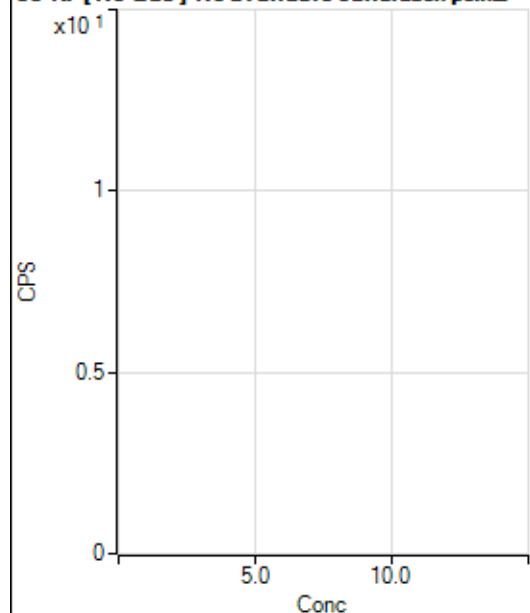
$$R = 1.0000$$

$$DL = 0.4697$$

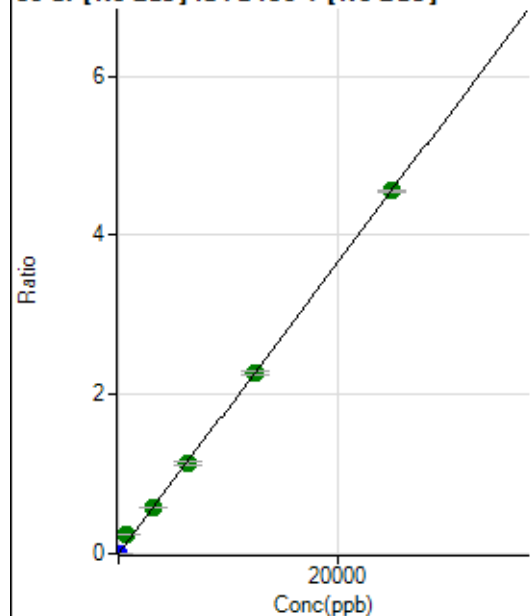
$$BEC = -0.2435$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			170.00		P	8.5
2	☐			148.89		P	9.0
3	☐			164.45		P	14.9
4	☐			162.23		P	13.7
5	☐			165.56		P	15.6
6	☐			152.23		P	12.5
7	☐			168.89		P	11.9
8	☐			177.78		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	370.01	0.0000	P	4.8
2	☐	1.000	0.924	1915.71	0.0002	P	3.0
3	☐	625.000	1273.415	2068498.48	0.2323	A	2.0
4	☐	3125.000	3170.875	4984803.64	0.5783	A	2.2
5	☐	6250.000	6222.219	9720967.63	1.1347	A	4.4
6	☐	12500.000	12483.488	19197159.99	2.2765	A	2.2
7	☐	25000.000	24993.257	37608974.72	4.5578	A	0.3
8	☐			5024.28	0.0006	P	11.4

$$y = 1.8236E-004 * x + 4.0481E-005$$

$$R = 0.9997$$

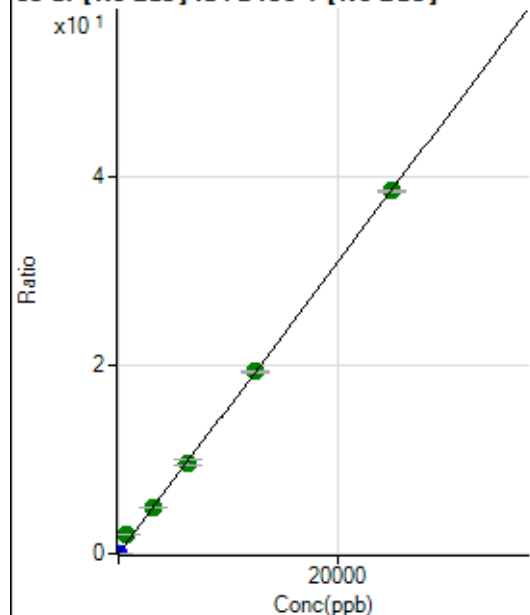
$$DL = 0.03177$$

$$BEC = 0.222$$

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	914.48	0.0001	P	10.4
2	☐	1.000	0.951	14343.02	0.0016	P	2.0
3	☐	625.000	1265.976	17373260.16	1.9505	A	1.1
4	☐	3125.000	3150.192	41837514.66	4.8533	A	2.2
5	☐	6250.000	6266.490	82691767.66	9.6543	A	5.2
6	☐	12500.000	12510.903	162547637.5	19.2746	A	0.9
7	☐	25000.000	24971.253	317445337.4	38.4711	A	0.2
8	☐			42116.39	0.0053	P	9.3

$$y = 0.0015 * x + 1.0004E-004$$

$$R = 0.9997$$

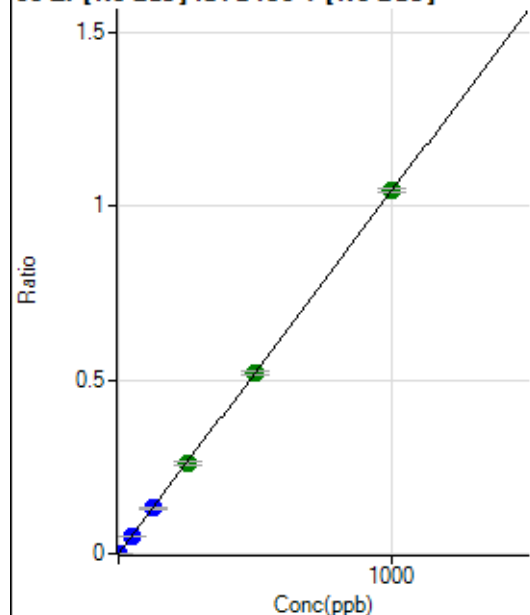
$$DL = 0.02035$$

$$BEC = 0.06493$$

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	307.78	0.0000	P	8.3
2	☐	1.000	0.903	8934.04	0.0010	P	1.5
3	☐	50.000	49.583	460417.39	0.0517	P	1.8
4	☐	125.000	125.851	1130561.15	0.1312	P	2.5
5	☐	250.000	250.010	2232486.20	0.2605	A	3.5
6	☐	500.000	498.676	4382133.10	0.5196	A	1.2
7	☐	1000.000	1000.574	8603465.50	1.0426	A	1.0
8	☐			3724.98	0.0005	P	2.6

$$y = 0.0010 * x + 3.3684E-005$$

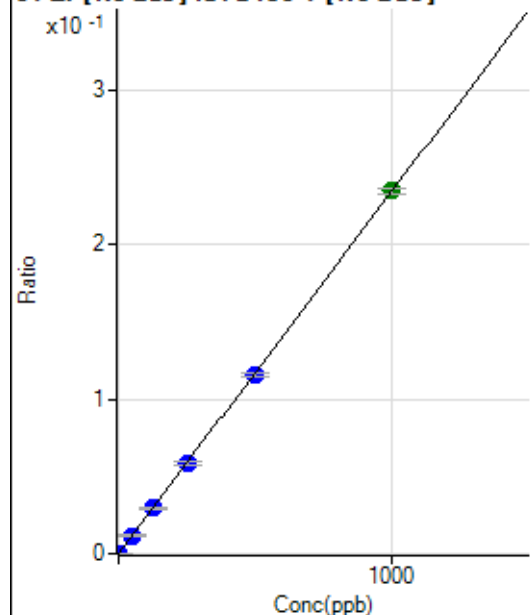
$$R = 1.0000$$

$$DL = 0.008021$$

$$BEC = 0.03233$$

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	58.89	0.0000	P	44.7
2	☐	1.000	0.911	2016.83	0.0002	P	7.0
3	☐	50.000	49.953	104324.75	0.0117	P	3.0
4	☐	125.000	126.121	254874.26	0.0296	P	2.5
5	☐	250.000	248.816	499869.09	0.0583	P	3.2
6	☐	500.000	494.904	978321.09	0.1160	P	1.9
7	☐	1000.000	1002.707	1939574.10	0.2350	A	1.7
8	☐			857.81	0.0001	P	13.3

$$y = 2.3440\text{E-}004 * x + 6.4625\text{E-}006$$

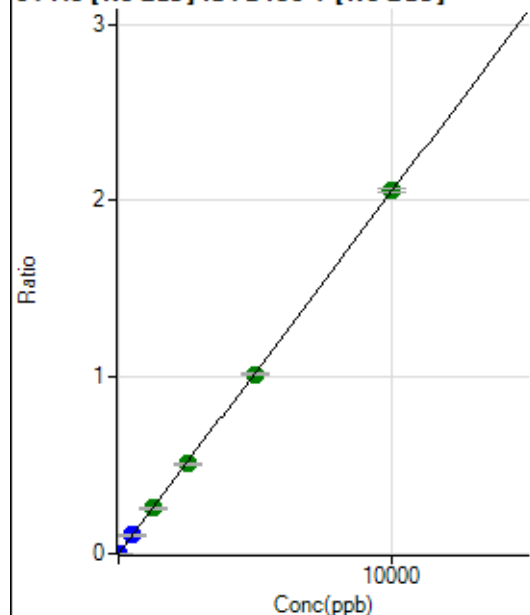
$$R = 1.0000$$

$$DL = 0.03697$$

$$BEC = 0.02757$$

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	118.89	0.0000	P	12.4
2	☐	5.000	5.478	10416.20	0.0011	P	2.0
3	☐	500.000	505.810	924027.40	0.1037	P	1.6
4	☐	1250.000	1258.994	2226086.70	0.2582	A	2.1
5	☐	2500.000	2479.890	4359223.13	0.5086	A	3.5
6	☐	5000.000	4954.534	8569427.65	1.0161	A	1.3
7	☐	10000.000	10026.346	16966775.44	2.0563	A	1.0
8	☐			7330.89	0.0009	P	5.3

$$y = 2.0509\text{E-}004 * x + 1.3016\text{E-}005$$

$$R = 1.0000$$

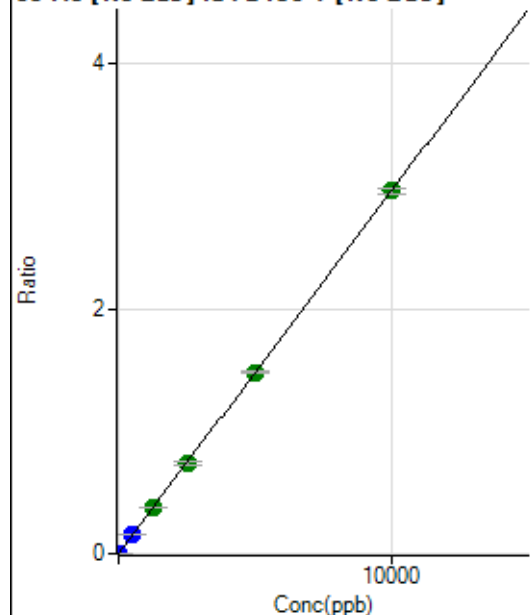
$$DL = 0.02352$$

$$BEC = 0.06346$$

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	63.34	0.0000	P	8.8
2	☐	5.000	4.746	12940.55	0.0014	P	2.8
3	☐	500.000	508.674	1341558.69	0.1506	P	1.5
4	☐	1250.000	1259.541	3214998.88	0.3730	A	2.1
5	☐	2500.000	2478.469	6285743.38	0.7339	A	5.3
6	☐	5000.000	5005.010	12497306.48	1.4820	A	1.7
7	☐	10000.000	10001.251	24433823.52	2.9614	A	1.4
8	☐			10040.37	0.0013	P	4.9

$$y = 2.9610E-004 * x + 6.9262E-006$$

$$R = 1.0000$$

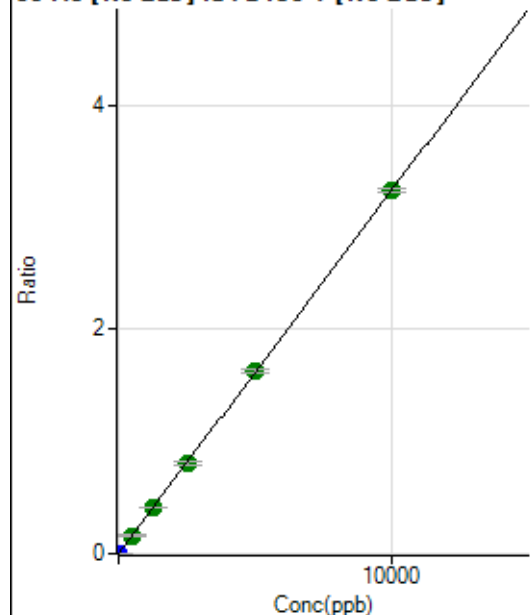
$$DL = 0.006155$$

$$BEC = 0.02339$$

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	97.78	0.0000	P	20.7
2	☐	5.000	4.819	14389.77	0.0016	P	2.4
3	☐	500.000	502.440	1447887.46	0.1626	A	2.3
4	☐	1250.000	1257.236	3506804.98	0.4068	A	1.7
5	☐	2500.000	2472.956	6854175.94	0.8001	A	4.9
6	☐	5000.000	5022.226	13702808.41	1.6249	A	2.3
7	☐	10000.000	9994.621	26682310.99	3.2337	A	1.1
8	☐			10936.62	0.0014	P	3.2

$$y = 3.2354E-004 * x + 1.0696E-005$$

$$R = 1.0000$$

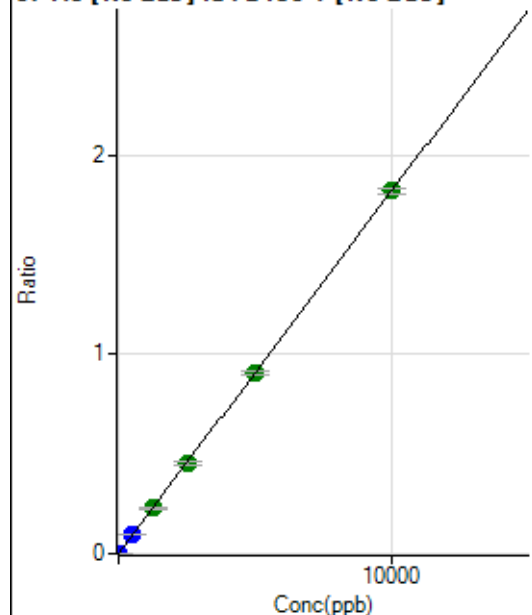
$$DL = 0.02056$$

$$BEC = 0.03306$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51.11	0.0000	P	8.8
2	☐	5.000	4.748	7967.92	0.0009	P	2.3
3	☐	500.000	512.251	830001.57	0.0932	P	1.9
4	☐	1250.000	1260.706	1976790.60	0.2294	A	3.1
5	☐	2500.000	2503.061	3901213.69	0.4554	A	4.6
6	☐	5000.000	4976.692	7634517.32	0.9054	A	2.1
7	☐	10000.000	10008.938	15024713.25	1.8209	A	1.4
8	☐			6058.05	0.0008	P	4.3

$$y = 1.8192\text{E-}004 * x + 5.5869\text{E-}006$$

$$R = 1.0000$$

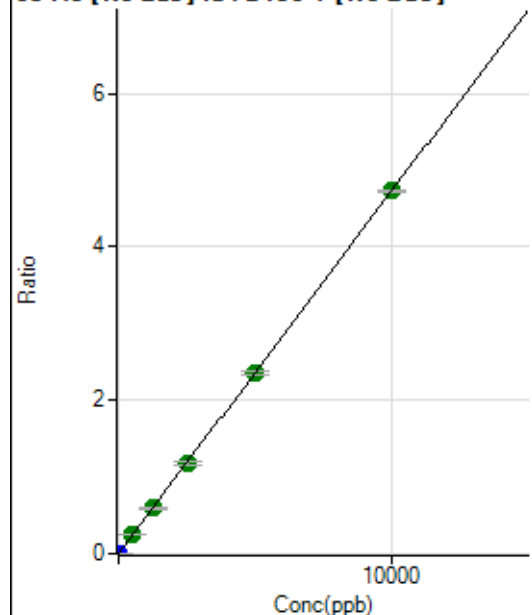
$$DL = 0.008141$$

$$BEC = 0.03071$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	86.67	0.0000	P	1.1
2	☐	5.000	4.775	20777.86	0.0023	P	1.8
3	☐	500.000	507.482	2137048.58	0.2399	A	1.4
4	☐	1250.000	1263.067	5146510.17	0.5972	A	3.5
5	☐	2500.000	2501.981	10131846.10	1.1829	A	5.0
6	☐	5000.000	4980.740	19855482.06	2.3548	A	3.0
7	☐	10000.000	10007.127	39038848.59	4.7312	A	0.5
8	☐			16016.05	0.0020	P	3.9

$$y = 4.7278\text{E-}004 * x + 9.4803\text{E-}006$$

$$R = 1.0000$$

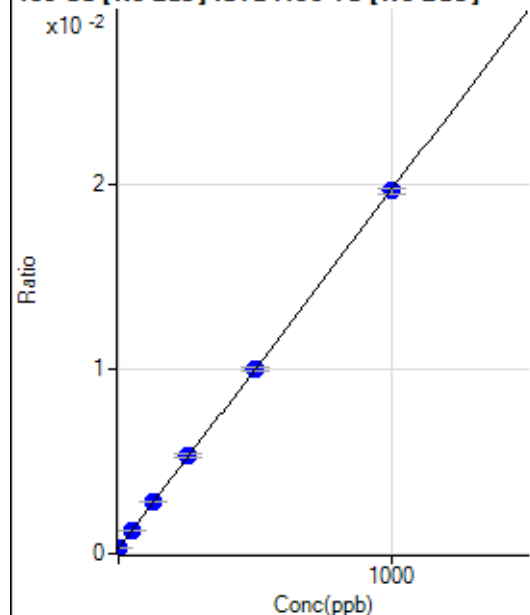
$$DL = 0.0006714$$

$$BEC = 0.02005$$

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	2030.18	0.0003	P	5.2
2	☐	1.000	0.233	2057.95	0.0003	P	4.0
3	☐	50.000	49.474	8919.62	0.0012	P	2.9
4	☐	125.000	131.560	19437.11	0.0028	P	0.6
5	☐	250.000	259.049	36242.00	0.0053	P	3.3
6	☐	500.000	500.116	68595.30	0.0100	P	1.1
7	☐	1000.000	996.887	133770.81	0.0196	P	1.7
8	☐			1693.46	0.0003	P	5.8

$$y = 1.9412\text{E-}005 * x + 2.8276\text{E-}004$$

R = 0.9999

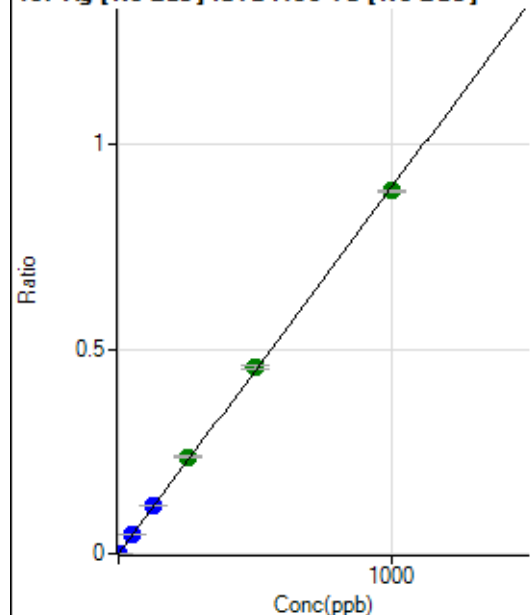
DL = 2.269

BEC = 14.57

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	60.00	0.0000	P	37.4
2	☐	1.000	0.999	6456.01	0.0009	P	5.0
3	☐	50.000	52.429	336440.95	0.0469	P	0.8
4	☐	125.000	132.239	810191.62	0.1183	P	1.2
5	☐	250.000	264.049	1611257.23	0.2361	A	3.1
6	☐	500.000	509.231	3126780.30	0.4554	A	1.1
7	☐	1000.000	990.846	6036576.79	0.8860	A	0.6
8	☐			1357.86	0.0002	P	3.4

$$y = 8.9420\text{E-}004 * x + 8.3353\text{E-}006$$

R = 0.9998

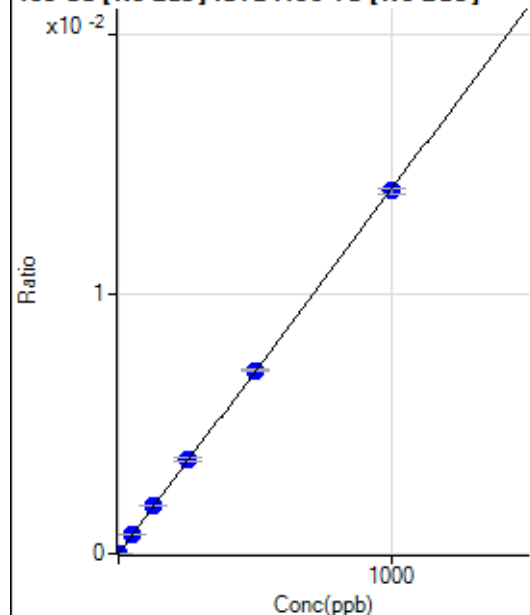
DL = 0.01047

BEC = 0.009321

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	16.3
2	☐	1.000	0.784	90.00	0.0000	P	21.8
3	☐	50.000	52.019	5249.94	0.0007	P	2.9
4	☐	125.000	132.207	12721.52	0.0019	P	2.0
5	☐	250.000	260.140	24915.94	0.0037	P	4.5
6	☐	500.000	502.673	48440.34	0.0071	P	1.6
7	☐	1000.000	995.127	95134.52	0.0140	P	1.3
8	☐			83.34	0.0000	P	8.6

$$y = 1.4031E-005 * x + 1.5454E-006$$

$$R = 0.9999$$

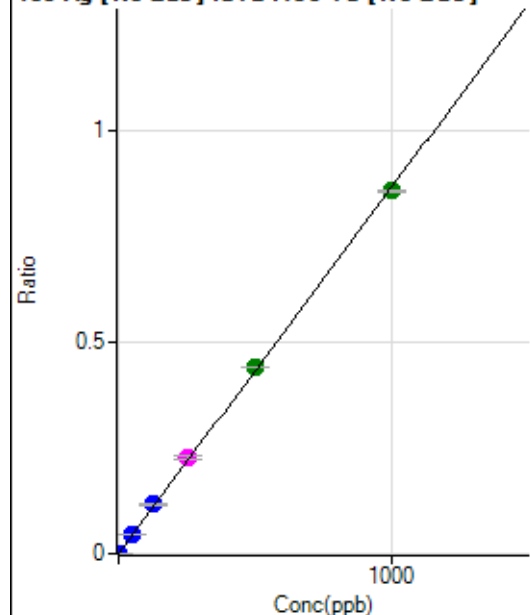
$$DL = 0.05387$$

$$BEC = 0.1101$$

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	38.89	0.0000	P	5.1
2	☐	1.000	0.999	6235.91	0.0009	P	5.4
3	☐	50.000	52.562	326726.52	0.0455	P	2.1
4	☐	125.000	133.990	795324.44	0.1161	P	1.3
5	☐	250.000	262.027	1548882.56	0.2270	M	3.7
6	☐	500.000	510.152	3034563.12	0.4420	A	0.4
7	☐	1000.000	990.666	5847463.52	0.8583	A	0.6
8	☐			1275.63	0.0002	P	4.9

$$y = 8.6635E-004 * x + 5.4153E-006$$

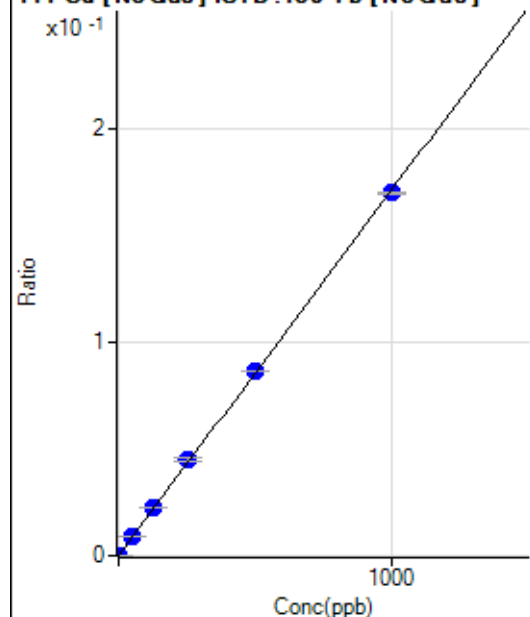
$$R = 0.9998$$

$$DL = 0.0009478$$

$$BEC = 0.006251$$

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	411.60	0.0001	P	4.8
2	☐	1.000	1.001	1636.44	0.0002	P	2.7
3	☐	50.000	52.034	64213.82	0.0089	P	1.2
4	☐	125.000	132.018	154963.91	0.0226	P	1.3
5	☐	250.000	261.386	305173.36	0.0447	P	3.8
6	☐	500.000	506.428	594648.99	0.0866	P	0.3
7	☐	1000.000	992.960	1156536.18	0.1698	P	0.7
8	☐			1038.16	0.0002	P	3.6

$$y = 1.7090\text{E-}004 * x + 5.7328\text{E-}005$$

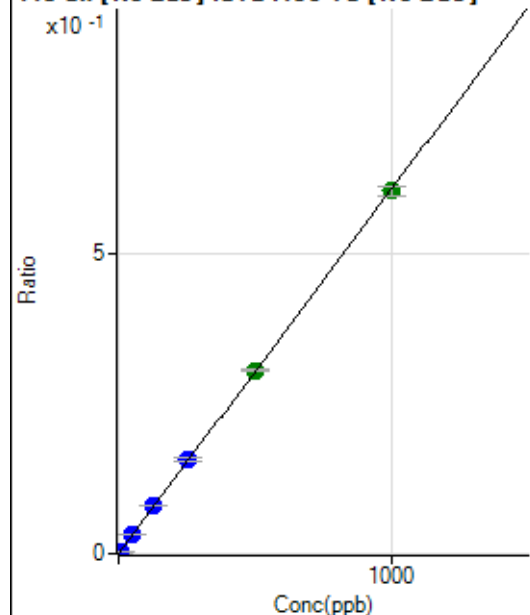
$$R = 0.9999$$

$$DL = 0.04842$$

$$BEC = 0.3355$$

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	615.58	0.0001	P	3.9
2	☐	5.000	4.936	22109.05	0.0031	P	1.7
3	☐	50.000	51.074	223381.41	0.0311	P	1.4
4	☐	125.000	131.305	547478.03	0.0799	P	0.5
5	☐	250.000	260.018	1078969.93	0.1581	P	4.0
6	☐	500.000	502.180	2096510.32	0.3054	A	0.8
7	☐	1000.000	995.564	4123756.29	0.6053	A	2.6
8	☐			3352.67	0.0005	P	3.5

$$y = 6.0789\text{E-}004 * x + 8.5688\text{E-}005$$

$$R = 0.9999$$

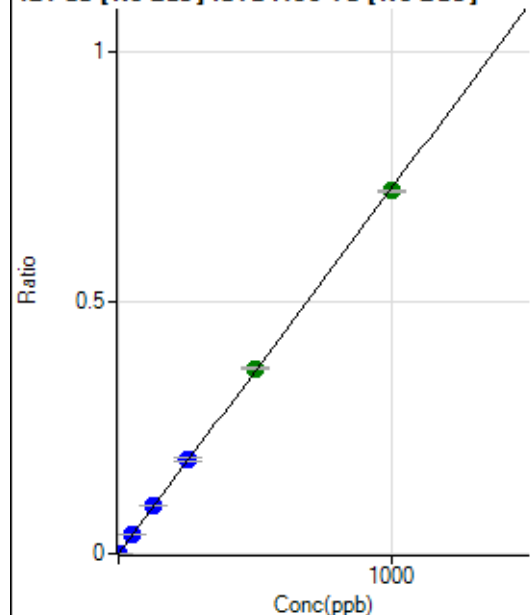
$$DL = 0.01635$$

$$BEC = 0.141$$

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	63.33	0.0000	P	13.0
2	☐	2.000	2.004	10505.22	0.0015	P	2.4
3	☐	50.000	51.038	266370.06	0.0371	P	1.1
4	☐	125.000	131.264	654056.93	0.0955	P	1.5
5	☐	250.000	258.968	1285220.10	0.1883	P	3.1
6	☐	500.000	507.606	2534634.63	0.3692	A	0.7
7	☐	1000.000	993.120	4920620.86	0.7222	A	0.6
8	☐			3159.30	0.0005	P	12.2

$$y = 7.2724\text{E-}004 * x + 8.8123\text{E-}006$$

$$R = 0.9999$$

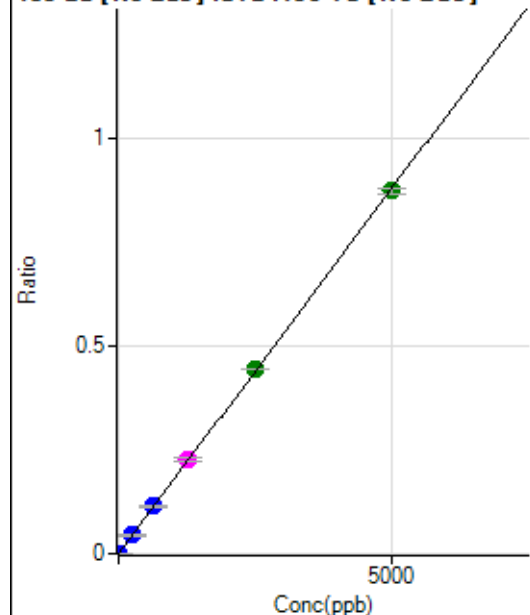
$$DL = 0.004742$$

$$BEC = 0.01212$$

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	74.44	0.0000	P	17.9
2	☐	10.000	9.781	12364.63	0.0017	P	1.3
3	☐	250.000	251.135	316145.66	0.0441	P	1.0
4	☐	625.000	647.571	778307.33	0.1136	P	1.2
5	☐	1250.000	1288.380	1542355.03	0.2260	M	2.8
6	☐	2500.000	2531.355	3048693.85	0.4440	A	0.6
7	☐	5000.000	4971.850	5941603.11	0.8721	A	1.3
8	☐			3110.40	0.0005	P	3.2

$$y = 1.7541\text{E-}004 * x + 1.0378\text{E-}005$$

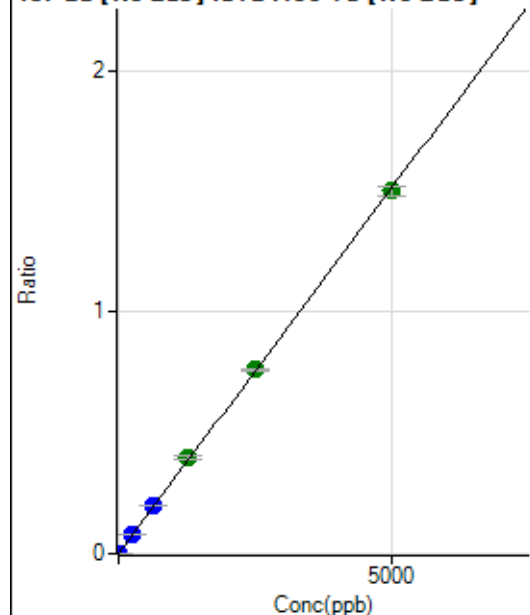
$$R = 0.9999$$

$$DL = 0.03169$$

$$BEC = 0.05916$$

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	70.00	0.0000	P	22.8
2	☐	10.000	10.116	21992.41	0.0031	P	1.8
3	☐	250.000	257.685	559402.31	0.0780	P	1.6
4	☐	625.000	664.748	1377981.00	0.2011	P	0.8
5	☐	1250.000	1320.870	2726740.34	0.3996	A	3.5
6	☐	2500.000	2525.028	5245154.33	0.7639	A	1.1
7	☐	5000.000	4964.415	10231855.89	1.5020	A	2.4
8	☐			5303.32	0.0008	P	1.9

$$y = 3.0254E-004 * x + 9.7307E-006$$

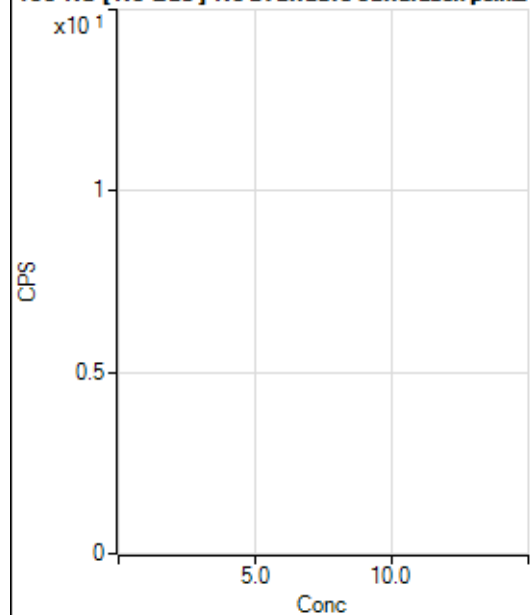
$$R = 0.9999$$

$$DL = 0.02198$$

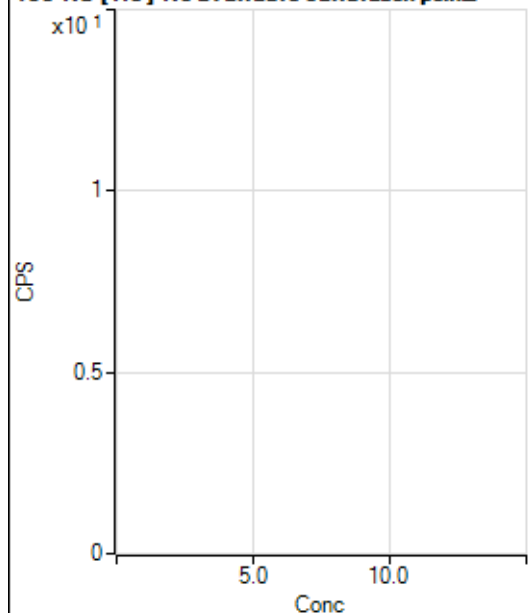
$$BEC = 0.03216$$

Weight: <None>

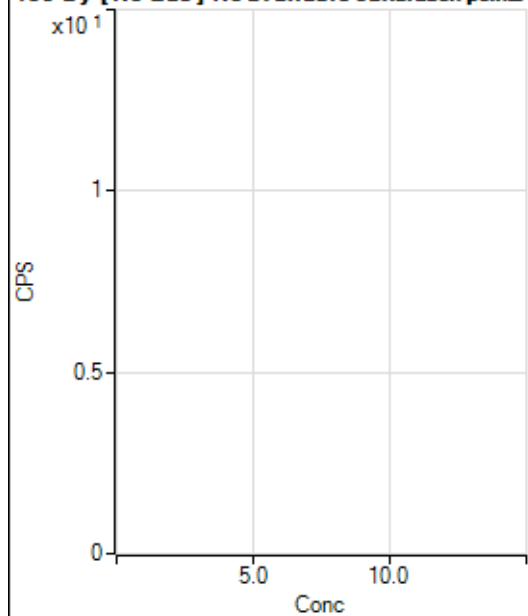
Min Conc: 0

150 Nd [No Gas] No available calibration points

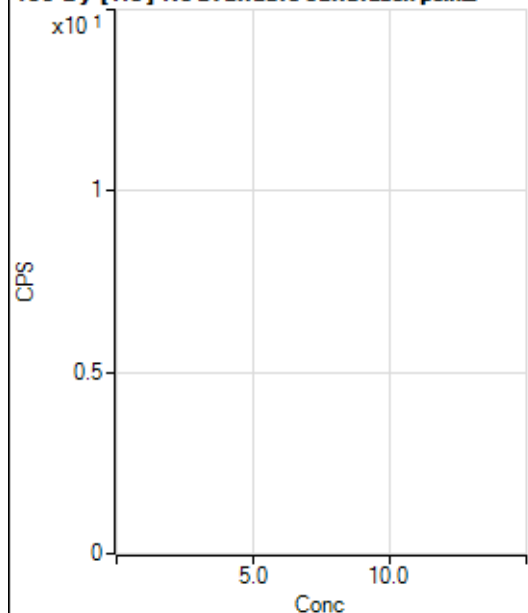
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	66.7
2	☐			7.78		P	89.2
3	☐			30.00		P	11.1
4	☐			43.33		P	7.7
5	☐			97.78		P	11.0
6	☐			185.56		P	10.5
7	☐			390.01		P	5.6
8	☐			174.45		P	2.9

150 Nd [He] No available calibration points

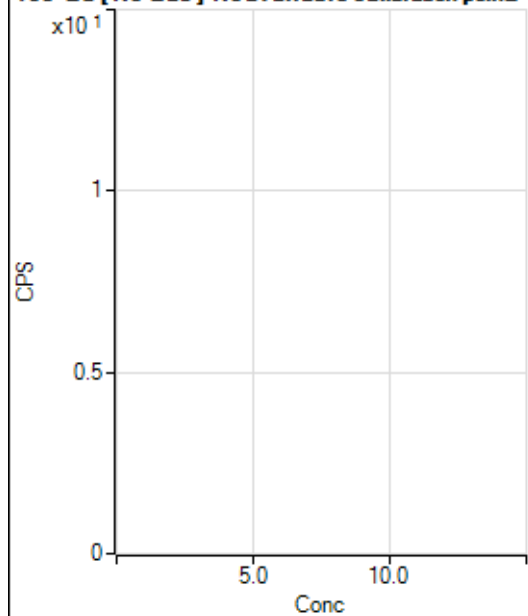
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			3.33		P	100.
4	☐			5.55		P	69.3
5	☐			17.78		P	47.2
6	☐			24.44		P	7.9
7	☐			48.89		P	31.5
8	☐			52.22		P	16.1

156 Dy [No Gas] No available calibration points

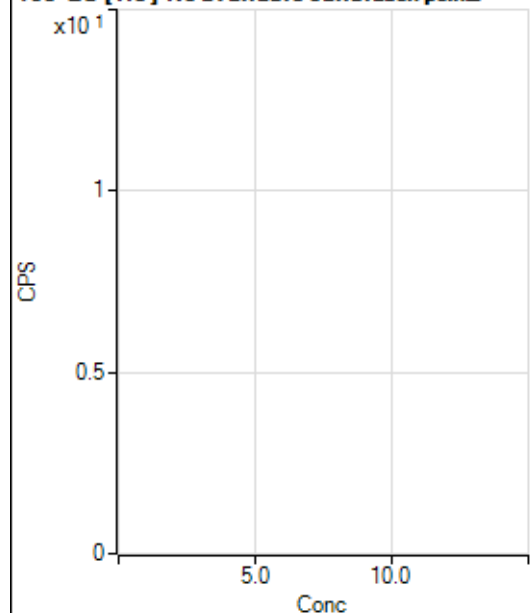
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			4.44		P	43.4
3	☐			21.11		P	18.2
4	☐			43.33		P	33.5
5	☐			93.34		P	12.9
6	☐			196.67		P	12.8
7	☐			332.23		P	9.7
8	☐			1191.18		P	7.2

156 Dy [He] No available calibration points

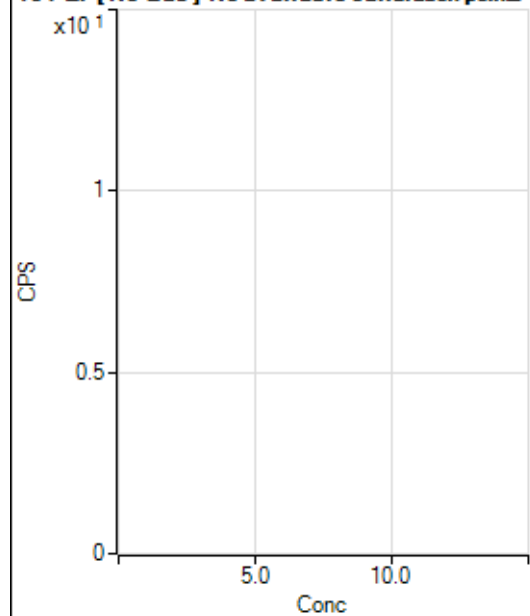
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			5.56		P	173.
4	☐			25.55		P	15.1
5	☐			45.55		P	51.4
6	☐			100.00		P	8.8
7	☐			195.56		P	15.5
8	☐			551.13		P	19.9

160 Gd [No Gas] Noavailable calibration poin_

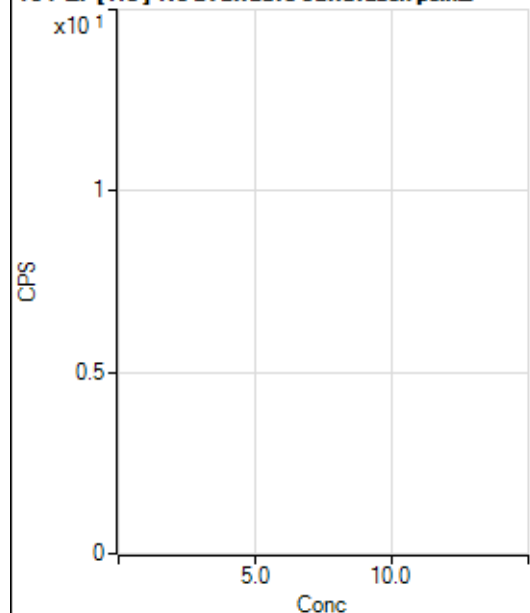
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	39.6
2	☐			26.66		P	21.7
3	☐			45.56		P	22.4
4	☐			57.78		P	40.5
5	☐			111.11		P	13.5
6	☐			202.23		P	9.4
7	☐			350.01		P	1.9
8	☐			1348.98		P	7.4

160 Gd [He] No available calibration points

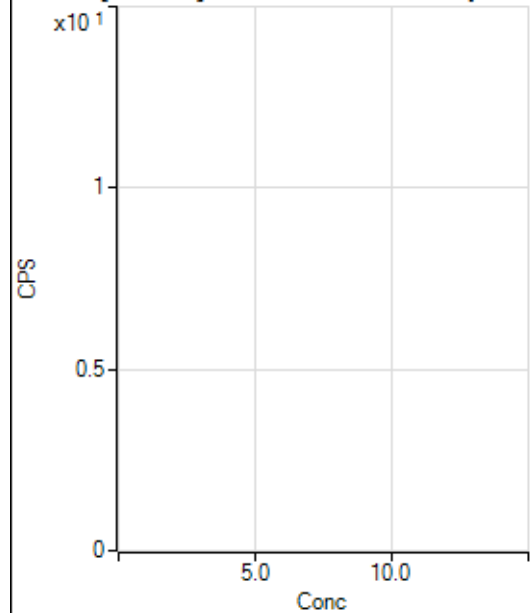
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	22.0
2	☐			63.33		P	36.8
3	☐			83.34		P	22.3
4	☐			76.67		P	17.4
5	☐			94.45		P	16.7
6	☐			144.45		P	5.8
7	☐			223.34		P	6.5
8	☐			712.25		P	6.7

164 Er [No Gas] No available calibration points

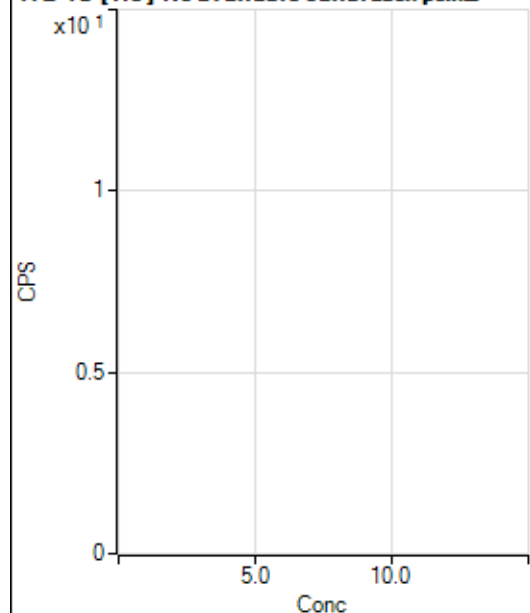
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57.78		P	8.8
2	☐			62.22		P	26.4
3	☐			61.11		P	8.3
4	☐			64.45		P	10.8
5	☐			84.45		P	19.5
6	☐			111.11		P	25.2
7	☐			202.23		P	11.7
8	☐			198.89		P	4.8

164 Er [He] No available calibration points

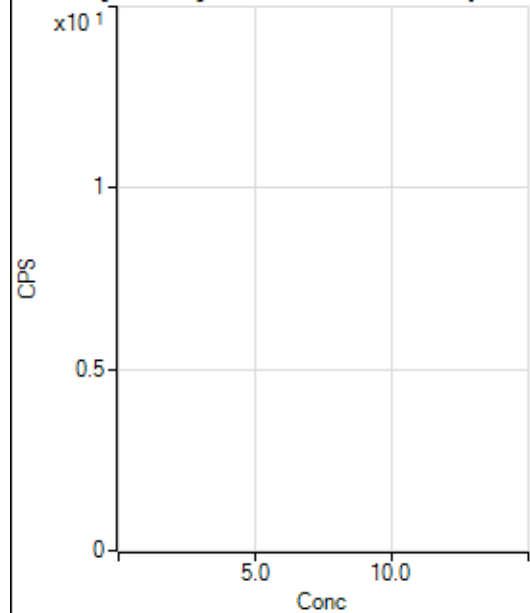
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	NaN
2	☐			28.89		P	13.3
3	☐			28.89		P	17.6
4	☐			26.67		P	12.5
5	☐			31.11		P	12.4
6	☐			58.89		P	33.2
7	☐			66.67		P	32.8
8	☐			86.67		P	21.4

172 Yb [No Gas] No available calibration points

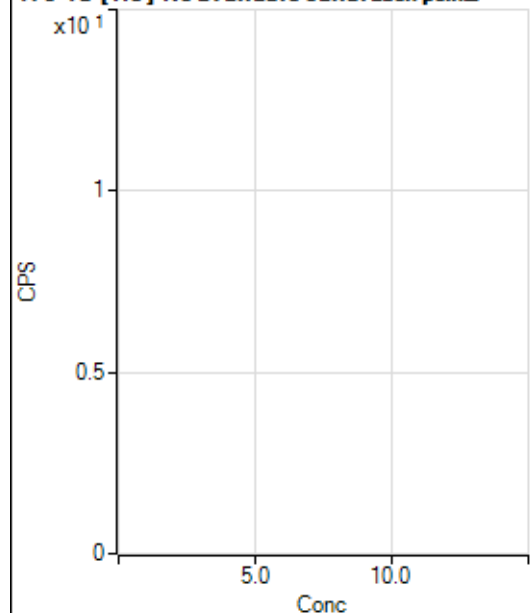
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	28.2
2	☐			40.00		P	44.1
3	☐			38.89		P	17.8
4	☐			68.89		P	17.0
5	☐			86.67		P	31.5
6	☐			100.00		P	8.8
7	☐			152.22		P	18.4
8	☐			141.11		P	5.5

172 Yb [He] No available calibration points

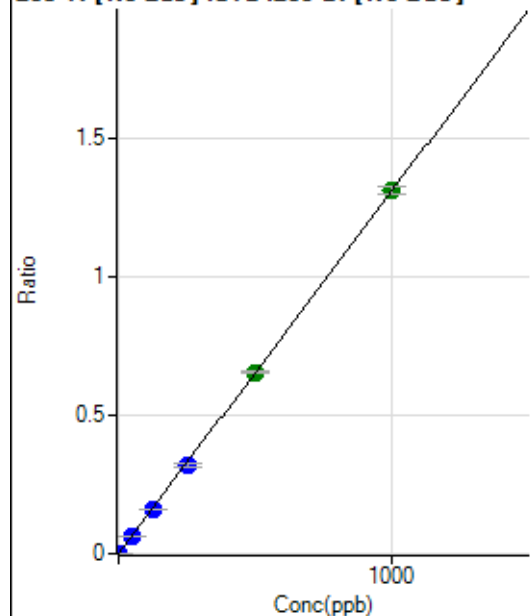
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	28.9
2	☐			27.78		P	34.6
3	☐			23.33		P	14.3
4	☐			26.67		P	25.0
5	☐			42.22		P	29.9
6	☐			50.00		P	6.7
7	☐			73.33		P	24.0
8	☐			71.11		P	11.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			583.35		P	4.5
2	☐			678.91		P	5.9
3	☐			1929.05		P	5.3
4	☐			3799.48		P	3.3
5	☐			6994.15		P	1.8
6	☐			13375.77		P	0.9
7	☐			26200.52		P	1.6
8	☐			615.58		P	15.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6150.38		P	2.6
2	☐			6148.16		P	1.2
3	☐			6575.04		P	4.5
4	☐			7408.81		P	4.0
5	☐			8710.73		P	1.5
6	☐			10909.05		P	2.9
7	☐			15856.28		P	2.5
8	☐			5782.43		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	193.34	0.0000	P	6.1
2	☐	1.000	0.909	6195.98	0.0012	P	4.1
3	☐	50.000	47.784	308996.87	0.0625	P	1.4
4	☐	125.000	120.749	763838.62	0.1578	P	0.2
5	☐	250.000	244.257	1520297.02	0.3192	P	4.2
6	☐	500.000	501.133	3095984.12	0.6549	A	1.6
7	☐	1000.000	1001.512	6061342.69	1.3088	A	2.2
8	☐			2295.79	0.0006	P	5.7

$$y = 0.0013 * x + 3.9299E-005$$

$$R = 1.0000$$

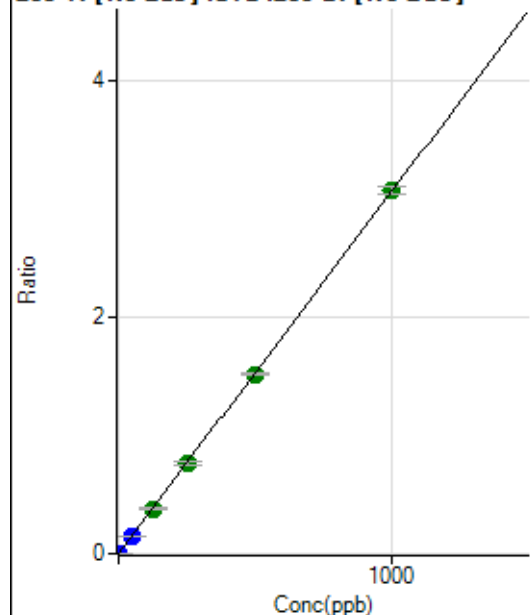
$$DL = 0.005476$$

$$BEC = 0.03007$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	458.90	0.0001	P	6.1
2	☐	1.000	0.929	14835.26	0.0029	P	3.4
3	☐	50.000	49.277	747162.23	0.1511	P	0.9
4	☐	125.000	123.987	1838916.27	0.3800	A	1.8
5	☐	250.000	249.782	3644016.82	0.7655	A	5.3
6	☐	500.000	495.932	7183974.76	1.5197	A	1.2
7	☐	1000.000	1002.251	14223387.56	3.0711	A	2.0
8	☐			5276.68	0.0013	P	3.7

$$y = 0.0031 * x + 9.3262E-005$$

$$R = 1.0000$$

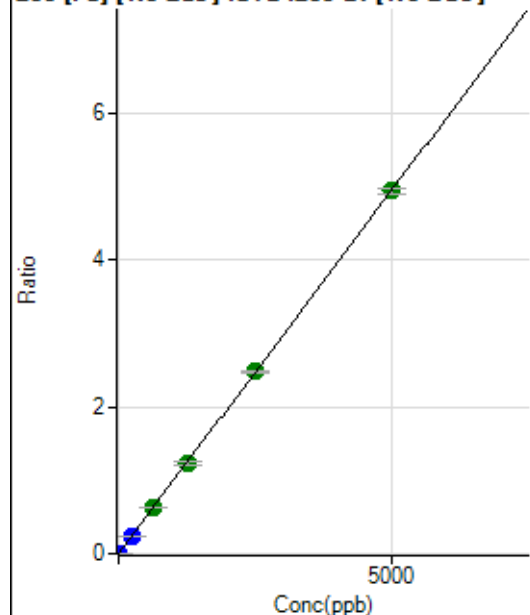
$$DL = 0.00555$$

$$BEC = 0.03044$$

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	272.23	0.0001	P	2.8
2	☐	1.000	0.950	5022.14	0.0010	P	1.0
3	☐	250.000	247.552	1210033.98	0.2447	P	0.5
4	☐	625.000	629.139	3008881.34	0.6217	A	0.1
5	☐	1250.000	1249.668	5882237.07	1.2349	A	3.9
6	☐	2500.000	2507.230	11712597.33	2.4776	A	0.6
7	☐	5000.000	4996.073	22865760.49	4.9369	A	1.6
8	☐			12065.73	0.0029	P	5.8

$$y = 9.8815E-004 * x + 5.5303E-005$$

$$R = 1.0000$$

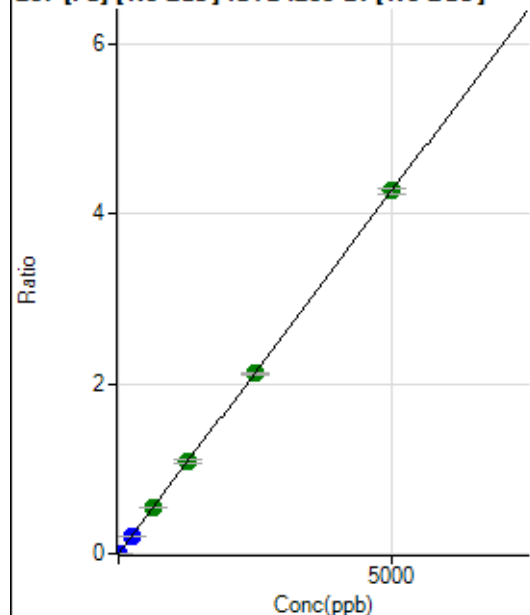
$$DL = 0.004659$$

$$BEC = 0.05597$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	271.12	0.0001	P	7.1
2	☐	1.000	0.979	4493.05	0.0009	P	3.5
3	☐	250.000	248.919	1049626.62	0.2122	P	1.3
4	☐	625.000	642.317	2649887.82	0.5476	A	1.2
5	☐	1250.000	1272.080	5165891.69	1.0845	A	3.3
6	☐	2500.000	2479.295	9991800.89	2.1136	A	0.7
7	☐	5000.000	5002.722	19752574.57	4.2647	A	1.3
8	☐			10314.25	0.0025	P	5.4

$$y = 8.5246\text{E-}004 * x + 5.5066\text{E-}005$$

$$R = 1.0000$$

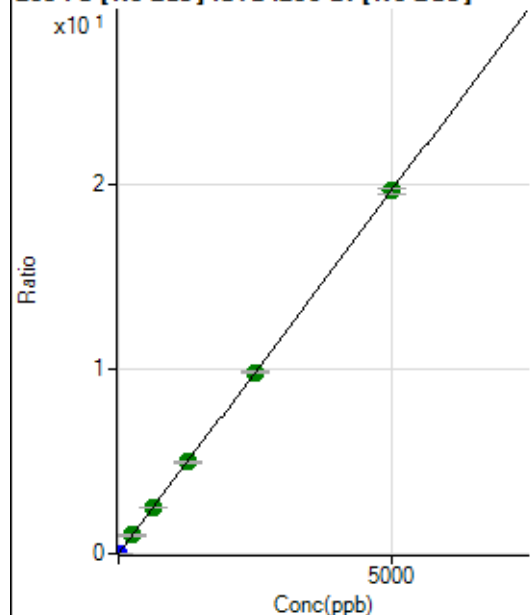
$$DL = 0.01379$$

$$BEC = 0.0646$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1143.37	0.0002	P	2.7
2	☐	1.000	0.970	20398.75	0.0040	P	1.2
3	☐	250.000	252.190	4895817.83	0.9900	A	0.8
4	☐	625.000	636.153	12082644.83	2.4969	A	1.0
5	☐	1250.000	1261.082	23575801.63	4.9495	A	3.5
6	☐	2500.000	2496.489	46318771.19	9.7979	A	0.7
7	☐	5000.000	4997.481	90840723.23	19.6133	A	1.3
8	☐			47595.74	0.0114	P	3.9

$$y = 0.0039 * x + 2.3234\text{E-}004$$

$$R = 1.0000$$

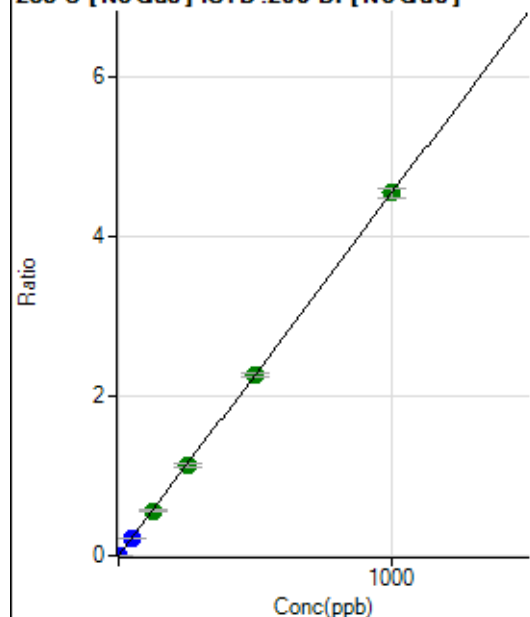
$$DL = 0.004882$$

$$BEC = 0.0592$$

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	100.00	0.0000	P	12.6
2	☐	1.000	0.893	20593.52	0.0041	P	2.9
3	☐	50.000	48.016	1079649.18	0.2183	P	0.5
4	☐	125.000	124.272	2734326.10	0.5650	A	1.6
5	☐	250.000	250.666	5427768.88	1.1396	A	3.7
6	☐	500.000	497.783	10698032.06	2.2630	A	2.0
7	☐	1000.000	1001.132	21079596.77	4.5513	A	2.5
8	☐			6007.05	0.0014	P	4.3

$$y = 0.0045 * x + 2.0328E-005$$

$$R = 1.0000$$

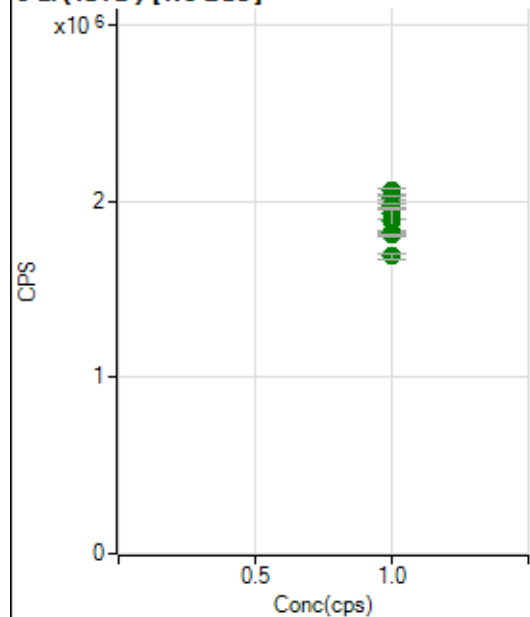
$$DL = 0.001689$$

$$BEC = 0.004471$$

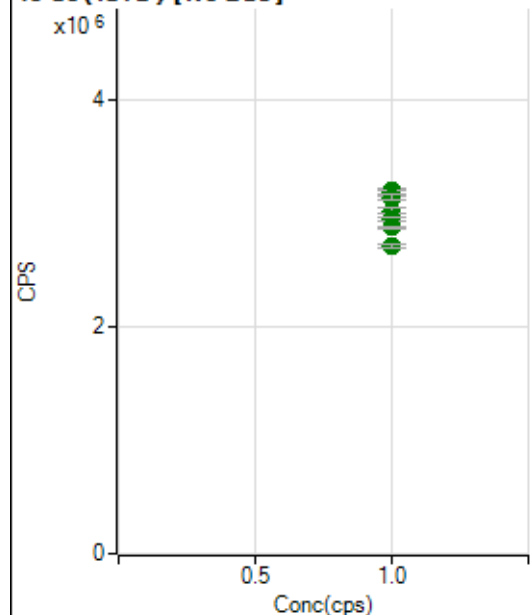
Weight: <None>

Min Conc: 0

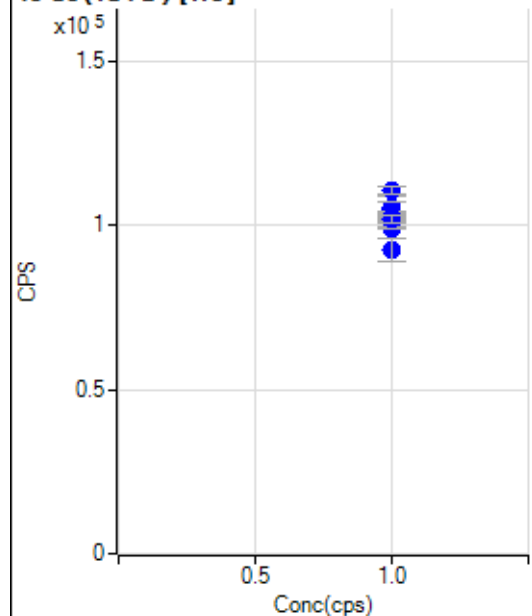
6 Li (ISTD) [No Gas]



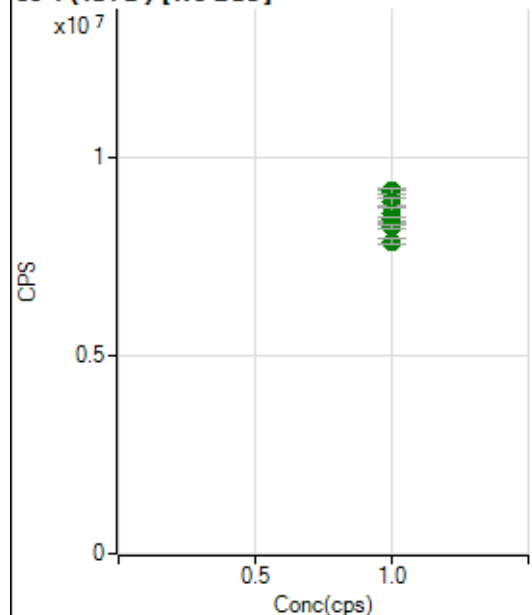
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2061494.16		A	1.7
2	☐	1.000		2019391.71		A	1.0
3	☐	1.000		1974527.86		A	1.9
4	☐	1.000		1930136.97		A	2.7
5	☐	1.000		1894106.76		A	7.2
6	☐	1.000		1821684.69		A	1.8
7	☐	1.000		1812068.52		A	0.5
8	☐	1.000		1692330.70		A	1.9

45 Sc (ISTD) [No Gas]

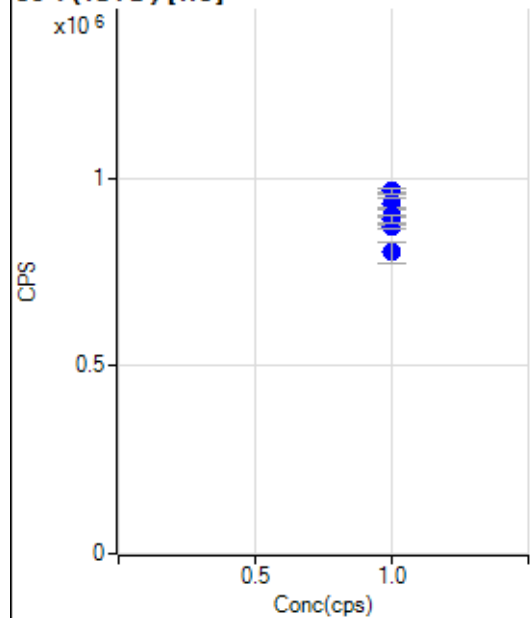
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3203263.67		A	1.4
2	☐	1.000		3185411.58		A	1.4
3	☐	1.000		3146965.82		A	1.4
4	☐	1.000		3018796.10		A	2.8
5	☐	1.000		2944739.68		A	3.5
6	☐	1.000		2950302.04		A	1.4
7	☐	1.000		2882392.80		A	0.5
8	☐	1.000		2716680.27		A	1.2

45 Sc (ISTD) [He]

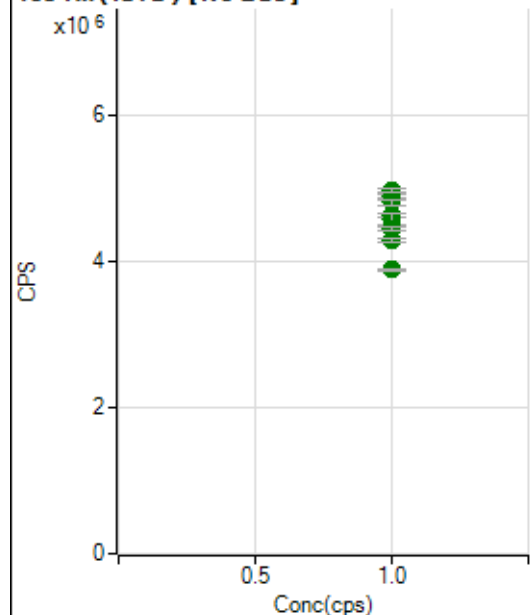
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		105027.58		P	7.2
2	☐	1.000		110591.30		P	2.0
3	☐	1.000		105682.22		P	3.2
4	☐	1.000		104096.23		P	0.8
5	☐	1.000		102409.61		P	0.9
6	☐	1.000		99216.08		P	0.8
7	☐	1.000		92790.43		P	7.4
8	☐	1.000		102100.76		P	2.0

89 Y (ISTD) [No Gas]

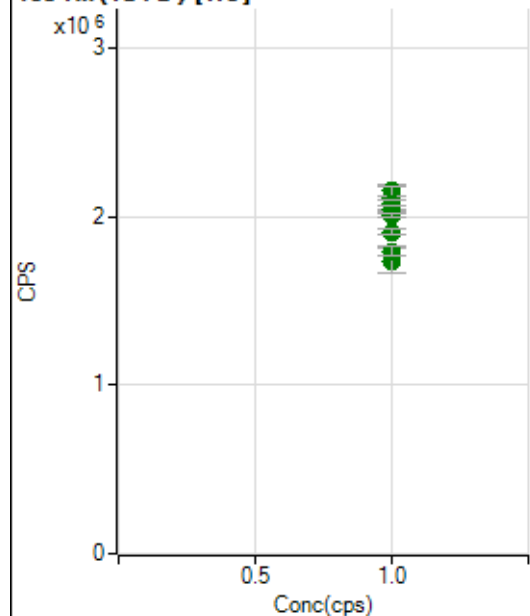
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9142896.32		A	1.1
2	☐	1.000		9167062.36		A	1.7
3	☐	1.000		8908306.95		A	2.1
4	☐	1.000		8623285.70		A	2.7
5	☐	1.000		8577294.25		A	4.2
6	☐	1.000		8433733.76		A	1.3
7	☐	1.000		8251550.23		A	1.0
8	☐	1.000		7884441.83		A	1.9

89 Y (ISTD) [He]

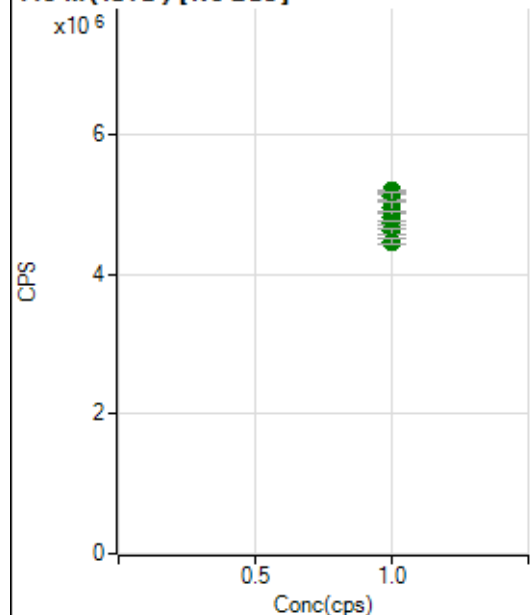
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		931365.00		P	6.6
2	☐	1.000		965475.01		P	1.8
3	☐	1.000		929350.41		P	3.4
4	☐	1.000		919154.75		P	0.9
5	☐	1.000		899077.51		P	0.8
6	☐	1.000		870176.19		P	1.1
7	☐	1.000		800910.40		P	7.2
8	☐	1.000		890153.08		P	2.7

103 Rh (ISTD) [No Gas]

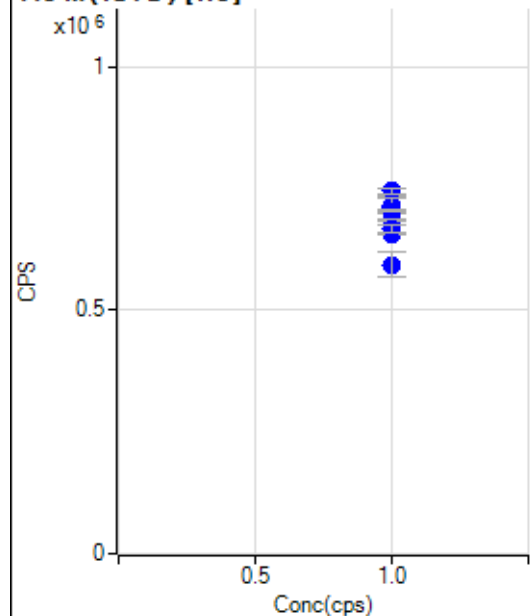
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4898513.36		A	1.2
2	☐	1.000		4963505.20		A	1.0
3	☐	1.000		4808113.26		A	1.9
4	☐	1.000		4624080.63		A	1.4
5	☐	1.000		4564800.66		A	3.5
6	☐	1.000		4451066.29		A	1.2
7	☐	1.000		4295002.40		A	1.5
8	☐	1.000		3886310.70		A	1.0

103 Rh (ISTD) [He]

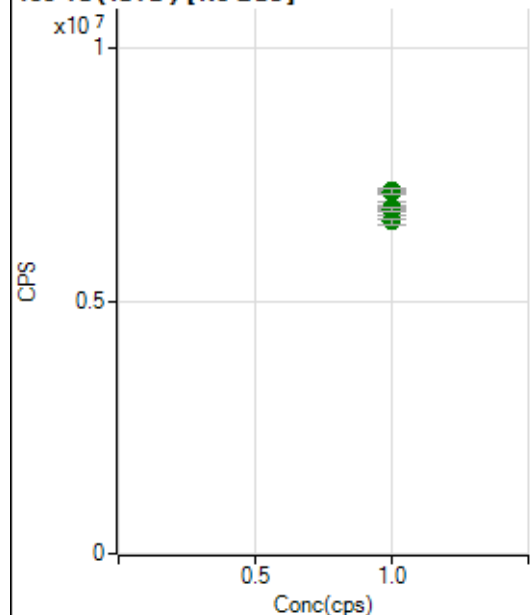
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2113881.81		A	6.9
2	☐	1.000		2153173.32		A	2.3
3	☐	1.000		2072376.67		A	2.7
4	☐	1.000		2044603.42		A	1.7
5	☐	1.000		2004510.53		A	1.0
6	☐	1.000		1910015.51		A	1.6
7	☐	1.000		1737421.42		A	8.7
8	☐	1.000		1795457.91		A	3.6

115 In (ISTD) [No Gas]

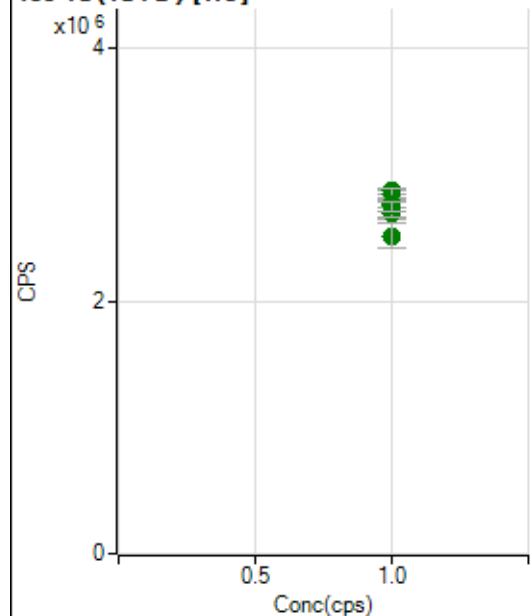
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5150734.97		A	0.3
2	☐	1.000		5192490.27		A	0.4
3	☐	1.000		5106513.46		A	2.1
4	☐	1.000		4950237.83		A	3.3
5	☐	1.000		4811088.15		A	4.2
6	☐	1.000		4731032.33		A	0.9
7	☐	1.000		4612597.95		A	1.9
8	☐	1.000		4465765.00		A	2.1

115 In (ISTD) [He]

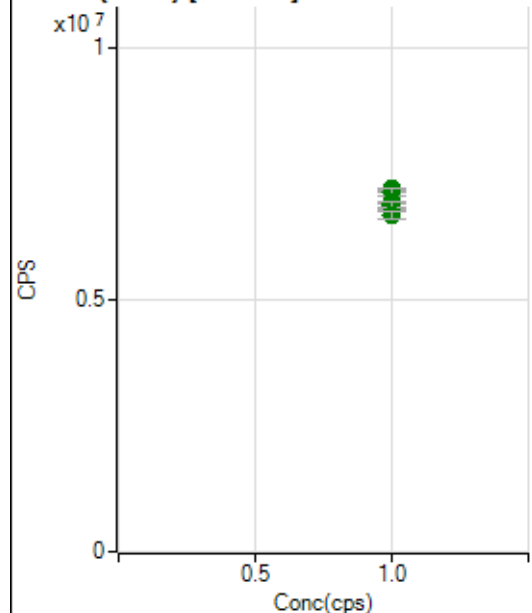
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		710402.02		P	6.7
2	☐	1.000		744748.41		P	1.9
3	☐	1.000		713832.54		P	4.2
4	☐	1.000		704127.91		P	0.8
5	☐	1.000		684293.80		P	0.5
6	☐	1.000		657072.89		P	0.8
7	☐	1.000		593949.65		P	8.2
8	☐	1.000		665418.67		P	2.3

159 Tb (ISTD) [No Gas]

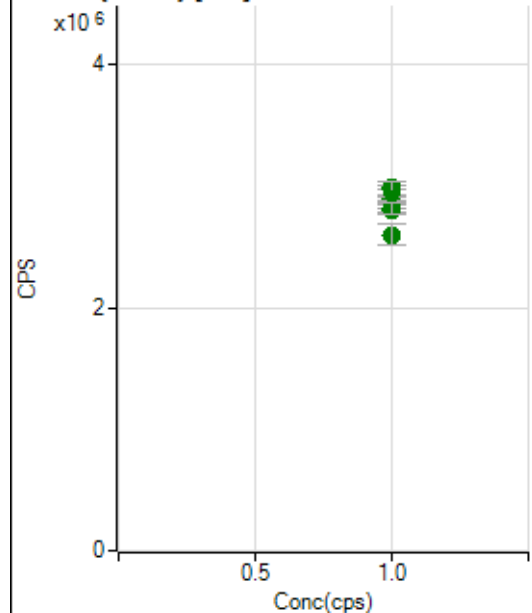
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7182004.06		A	1.1
2	☐	1.000		7163521.14		A	0.8
3	☐	1.000		7175651.70		A	1.5
4	☐	1.000		6851920.66		A	1.4
5	☐	1.000		6829176.56		A	3.8
6	☐	1.000		6866082.19		A	0.9
7	☐	1.000		6813123.30		A	0.7
8	☐	1.000		6569743.16		A	1.8

159 Tb (ISTD) [He]

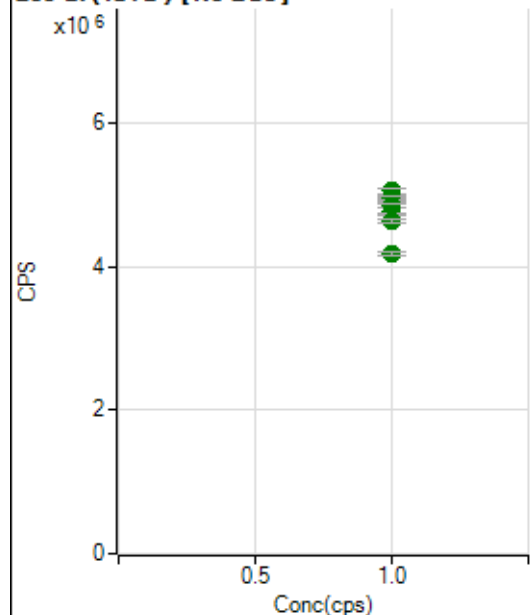
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2759499.02		A	8.0
2	☐	1.000		2871934.43		A	1.7
3	☐	1.000		2852930.34		A	2.6
4	☐	1.000		2768957.84		A	2.1
5	☐	1.000		2766810.62		A	1.6
6	☐	1.000		2687338.10		A	1.7
7	☐	1.000		2514341.73		A	7.9
8	☐	1.000		2748489.06		A	3.0

165 Ho (ISTD) [No Gas]

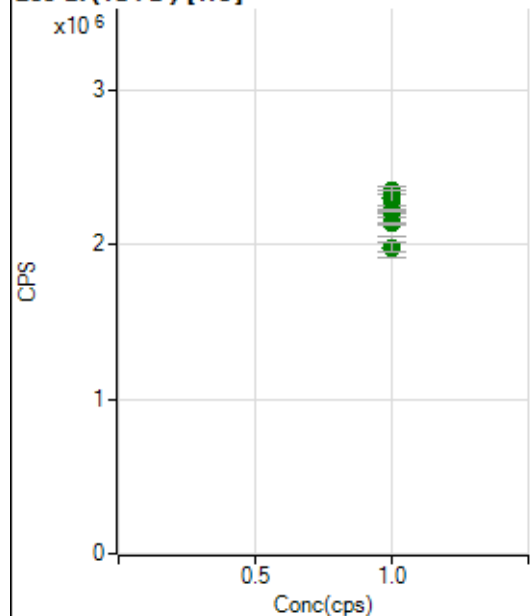
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7141866.42		A	0.8
2	☐	1.000		7189440.73		A	0.7
3	☐	1.000		7115345.80		A	2.1
4	☐	1.000		6855214.83		A	1.6
5	☐	1.000		6841170.80		A	3.1
6	☐	1.000		6934103.23		A	0.5
7	☐	1.000		6879690.59		A	1.8
8	☐	1.000		6665529.76		A	2.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2872255.08		A	7.3
2	☐	1.000		2984611.73		A	1.0
3	☐	1.000		2975426.27		A	3.7
4	☐	1.000		2887407.98		A	1.2
5	☐	1.000		2864355.37		A	0.7
6	☐	1.000		2806176.00		A	1.0
7	☐	1.000		2598505.86		A	6.6
8	☐	1.000		2811292.63		A	3.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4921697.77		A	1.2
2	☐	1.000		5050229.58		A	1.3
3	☐	1.000		4945600.83		A	0.9
4	☐	1.000		4839447.46		A	1.1
5	☐	1.000		4767992.39		A	4.5
6	☐	1.000		4727502.46		A	0.8
7	☐	1.000		4631831.60		A	1.0
8	☐	1.000		4170963.24		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2250738.39		A	6.7
2	☐	1.000		2345884.29		A	2.2
3	☐	1.000		2302077.41		A	4.5
4	☐	1.000		2230283.14		A	2.2
5	☐	1.000		2215412.82		A	0.7
6	☐	1.000		2133669.88		A	0.9
7	☐	1.000		1978973.11		A	7.1
8	☐	1.000		1982814.26		A	2.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8022024 MS.b

Acq. Date-Time 2024-02-20 13:21:30

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		7536	75359.06			0.419	5.000
24		71738	717382.56			0.750	5.000
25		9487	94868.96			0.562	5.000
26		11338	113383.86			0.749	5.000
59		55210	552101.72			0.434	5.000
113		6577	65770.54			0.797	5.000
115		81968	819683.93			1.304	5.000
206		23785	237853.11			1.327	5.000
207		21687	216865.07			1.240	5.000
208		51567	515672.83			1.173	5.000
220		0	1.80			66.898	

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

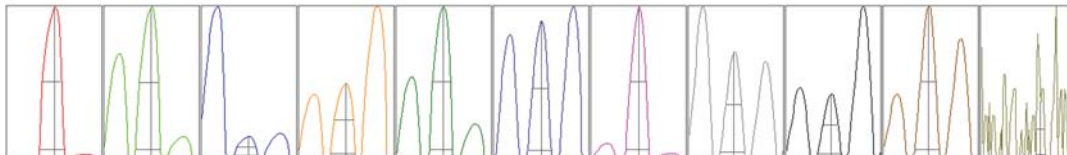
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7482	7544	7537	7559	7558
24	72400	71501	72102	71011	71678
25	9509	9564	9469	9420	9472
26	11357	11449	11379	11252	11254
59	54860	55152	55464	55170	55405
113	6529	6584	6545	6564	6663
115	81245	82897	82114	80547	83039
206	23483	23666	23584	23924	24269
207	21382	21491	21649	21875	22035
208	51024	51186	51300	51814	52512

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	13328.85	9.05	8.90 - 9.10	
24	125313.57	24.00	23.90 - 24.10	
25	16939.13	25.00	24.90 - 25.10	
26	19892.47	26.00	25.90 - 26.10	
59	103221.77	59.00	58.90 - 59.10	
113	13780.06	113.05	112.90 - 113.10	
115	170715.28	115.05	114.90 - 115.10	
206	48957.49	205.95	205.90 - 206.10	
207	44733.37	206.95	206.90 - 207.10	
208	106299.53	207.95	207.90 - 208.10	
220	0.20	220.40	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.782	0.900	
24	0.60	0.786	0.900	
25	0.59	0.772	0.900	
26	0.60	0.785	0.900	
59	0.56	0.735	0.900	
113	0.49	0.750	0.900	
115	0.50	0.733	0.900	
206	0.48	0.775	0.900	
207	0.48	0.737	0.900	
208	0.48	0.775	0.900	
220	0.27	0.297		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	14.2 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	150 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.8 mm
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EM

Discriminator	4.3 mV	Analog HV	2316 V	Pulse HV	1698 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12695	126952.93			1.404	
89		9488	94884.19			1.573	
205		16448	164482.85			2.510	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12991	12674	12701	12547	12563
89	9744	9454	9456	9440	9349
205	17161	16418	16332	16162	16169

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.8 mm
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EM

Discriminator	4.3 mV	Analog HV	2316 V	Pulse HV	1698 V
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