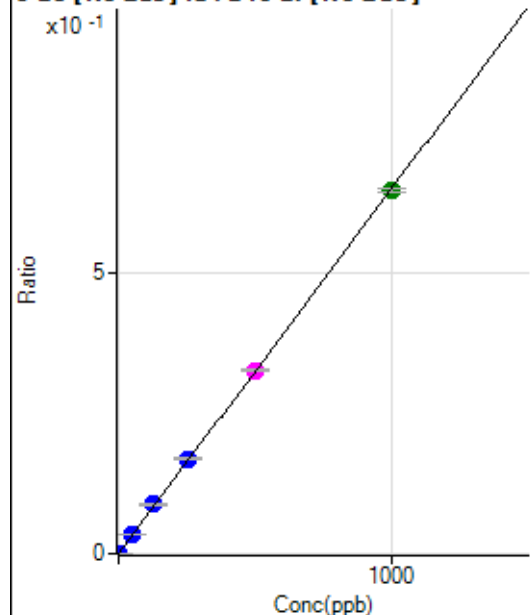


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7113022MS3.b\
Analysis File: P7113022MS3.batch.bin
DA Date-Time: 2022-11-30 22:35:43
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-11-30 15:07:27
2	005CALS.d	S02	2022-11-30 15:10:17
3	006CALS.d	S03	2022-11-30 15:13:10
4	007CALS.d	S04	2022-11-30 15:15:54
5	008CALS.d	S05	2022-11-30 15:18:39
6	009CALS.d	S06	2022-11-30 15:21:23
7	010CALS.d	S07	2022-11-30 15:24:09
8	011CALS.d	S08	2022-11-30 15:26:54

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	124.45	0.0000	P	21.2
2	☐	1.000	0.951	2089.05	0.0007	P	6.5
3	☐	50.000	53.916	110251.91	0.0351	P	2.0
4	☐	125.000	134.850	271010.35	0.0876	P	1.6
5	☐	250.000	260.146	534287.56	0.1690	P	1.1
6	☐	500.000	502.995	1028519.18	0.3268	M	1.9
7	☐	1000.000	994.539	1988635.09	0.6461	A	1.0
8	☐			674.47	0.0002	P	17.6

$$y = 6.4956\text{E-}004 * x + 4.0291\text{E-}005$$

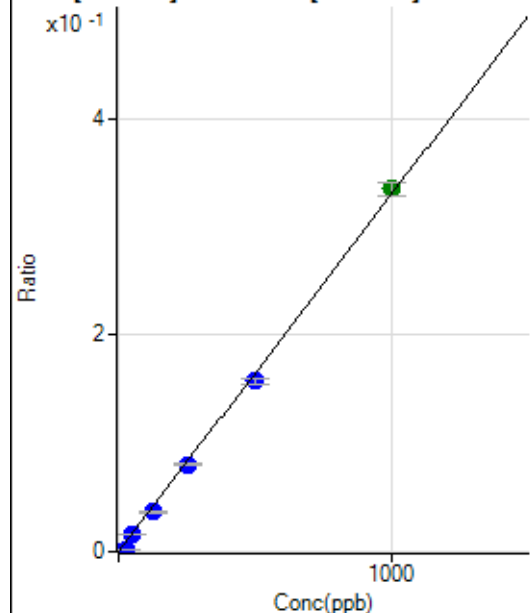
$$R = 0.9999$$

$$DL = 0.03945$$

$$BEC = 0.06203$$

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	216.68	0.0001	P	21.1
2	☐	25.000	5.272	5745.65	0.0018	P	12.6
3	☐	50.000	47.200	49181.65	0.0156	P	4.4
4	☐	125.000	110.246	112801.70	0.0364	P	3.6
5	☐	250.000	244.147	255001.46	0.0806	P	2.8
6	☐	500.000	477.323	495894.24	0.1575	P	2.9
7	☐	1000.000	1015.279	1031351.13	0.3350	A	3.4
8	☐			36819.59	0.0127	P	8.4

$$y = 3.2989\text{E-}004 * x + 7.0035\text{E-}005$$

$$R = 0.9995$$

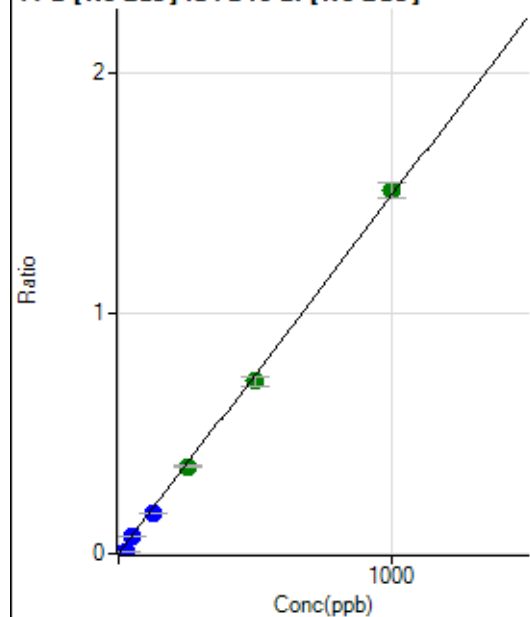
$$DL = 0.1347$$

$$BEC = 0.2123$$

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	902.83	0.0003	P	6.1
2	☐	25.000	5.190	25443.65	0.0080	P	6.8
3	☐	50.000	48.219	226453.60	0.0720	P	6.1
4	☐	125.000	111.200	512820.22	0.1657	P	2.2
5	☐	250.000	243.804	1147657.11	0.3630	A	0.6
6	☐	500.000	481.308	2254760.81	0.7162	A	4.9
7	☐	1000.000	1013.204	4640743.68	1.5075	A	4.3
8	☐			167091.40	0.0578	P	10.4

$$y = 0.0015 * x + 2.9194E-004$$

$$R = 0.9996$$

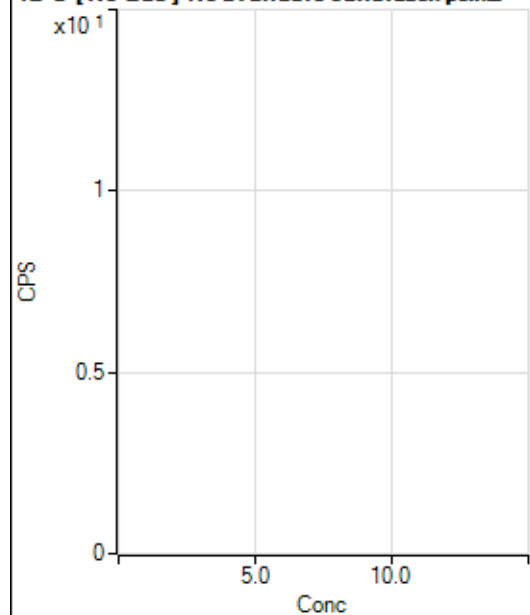
$$DL = 0.03615$$

$$BEC = 0.1963$$

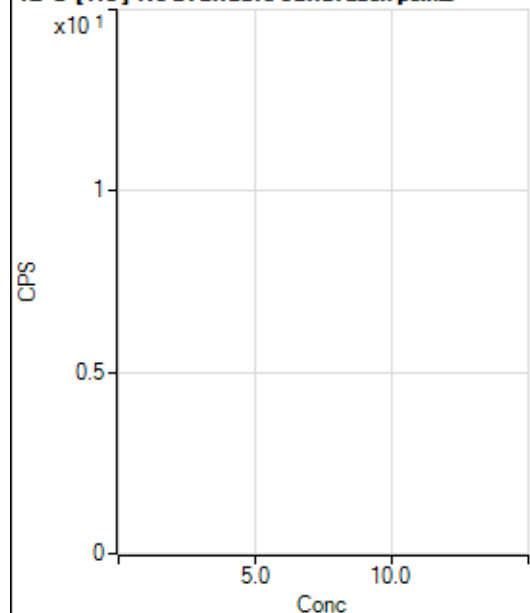
Weight: <None>

Min Conc: 0

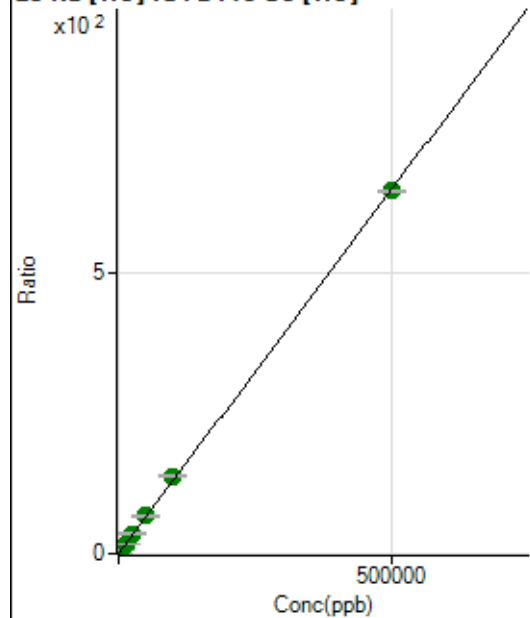
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25002.03	0.0486	P	0.8
2	☐	500.000	468.466	340824.35	0.6570	P	0.5
3	☐	5000.000	5561.802	3745045.54	7.2718	A	1.4
4	☐	12500.000	13726.743	9023132.49	17.8758	A	0.9
5	☐	25000.000	27650.890	17736731.41	35.9595	A	0.9
6	☐	50000.000	52326.266	34694699.15	68.0060	A	4.1
7	☐	100000.00	106304.11	68947343.21	138.1084	A	1.3
8	☐	500000.00	498337.75	326853799.9	647.2522	A	0.9

$$y = 0.0013 * x + 0.0486$$

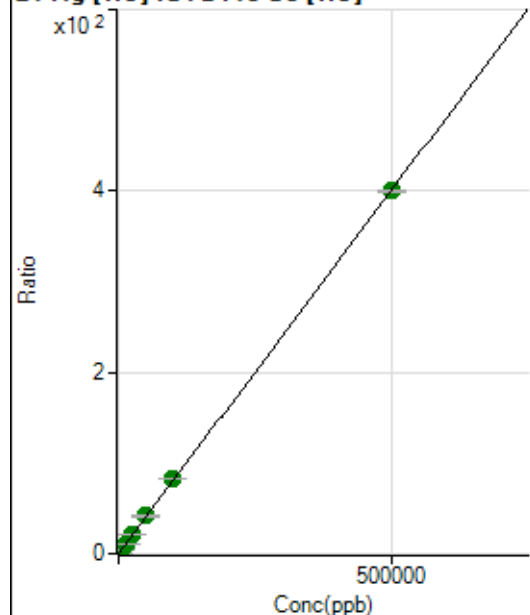
$$R = 0.9999$$

$$DL = 0.9467$$

$$BEC = 37.41$$

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	529.65	0.0010	P	4.0
2	☐	500.000	464.738	193791.09	0.3736	P	0.5
3	☐	5000.000	5506.160	2273577.08	4.4147	A	1.2
4	☐	12500.000	13623.097	5512569.86	10.9212	A	0.9
5	☐	25000.000	27193.508	10751765.87	21.7991	A	0.9
6	☐	50000.000	51700.758	21140837.28	41.4439	A	4.6
7	☐	100000.00	103111.09	41261323.61	82.6540	A	1.8
8	☐	500000.00	499064.92	202020441.5	400.0473	A	0.7

$$y = 8.0159\text{E-}004 * x + 0.0010$$

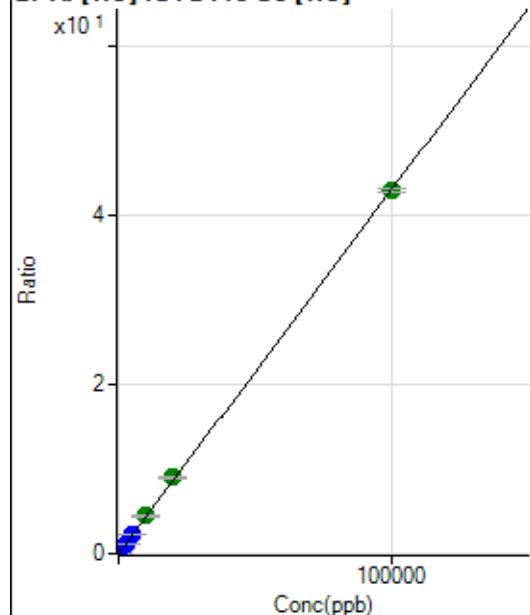
$$R = 1.0000$$

$$DL = 0.1535$$

$$BEC = 1.284$$

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	225.93	0.0004	P	15.1
2	☐	20.000	19.790	4648.93	0.0090	P	1.2
3	☐	1000.000	1335.834	296471.03	0.5757	P	0.9
4	☐	2500.000	2855.498	620896.89	1.2301	P	0.9
5	☐	5000.000	5436.937	1154993.93	2.3417	P	0.9
6	☐	10000.000	10473.484	2301442.04	4.5106	A	3.7
7	☐	20000.000	20907.036	4494659.94	9.0035	A	1.7
8	☐	100000.00	99737.152	21688572.71	42.9496	A	1.1

$$y = 4.3062\text{E-}004 * x + 4.3914\text{E-}004$$

$$R = 1.0000$$

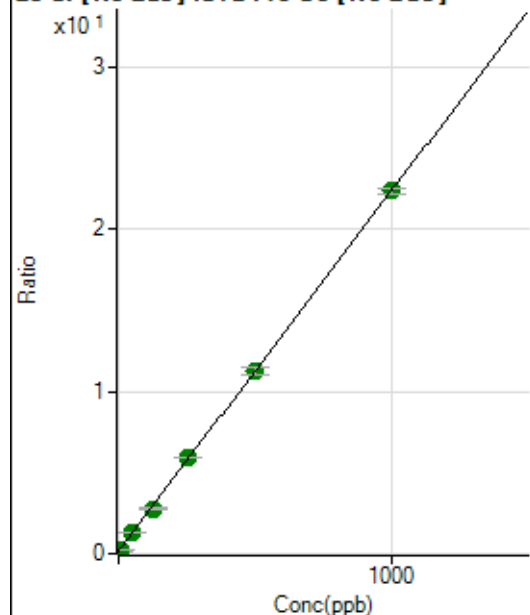
$$DL = 0.4632$$

$$BEC = 1.02$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1069385.16	0.1663	M	13.6
2	☐	10.000	0.771	1216955.41	0.1834	A	1.4
3	☐	50.000	51.870	8563657.48	1.3175	A	1.0
4	☐	125.000	117.048	17319932.16	2.7640	A	3.0
5	☐	250.000	258.792	37211572.02	5.9097	A	0.9
6	☐	500.000	498.257	70392173.80	11.2242	A	4.0
7	☐	1000.000	999.667	141074515.6	22.3521	A	1.4
8	☐			1394654.47	0.2226	A	0.5

$$y = 0.0222 * x + 0.1663$$

$$R = 0.9999$$

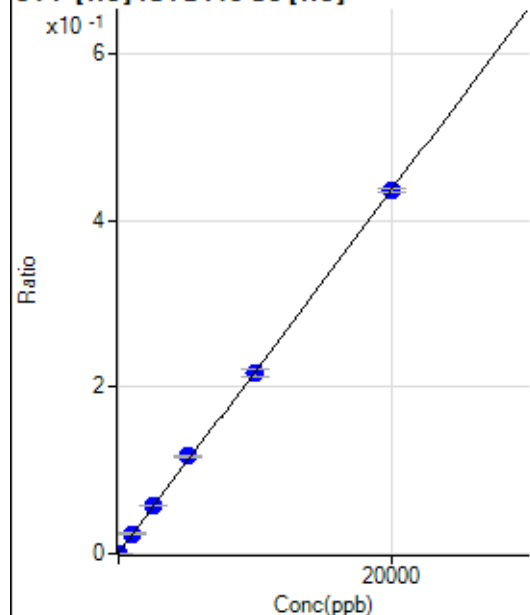
$$DL = 3.062$$

$$BEC = 7.495$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-7.242	361.13	0.0007	P	5.5
2	☐	0.000	7.242	527.80	0.0010	P	7.5
3	☐	1000.000	1052.237	12257.96	0.0238	P	4.3
4	☐	2500.000	2601.118	29061.42	0.0576	P	2.6
5	☐	5000.000	5313.640	57569.87	0.1167	P	0.9
6	☐	10000.000	9895.796	110519.76	0.2166	P	4.2
7	☐	20000.000	19958.440	217690.93	0.4361	P	1.1
8	☐			386.12	0.0008	P	8.6

$$y = 2.1805E-005 * x + 8.5955E-004$$

$$R = 0.9998$$

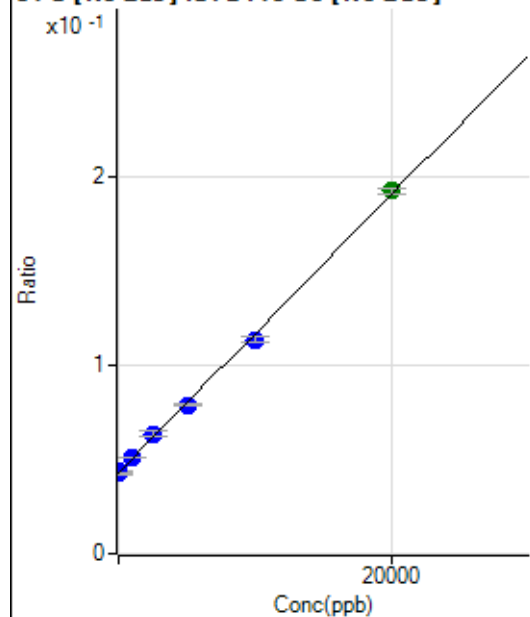
$$DL = 7.925$$

$$BEC = 39.42$$

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	78.711	280828.38	0.0437	P	0.4
2	☐	0.000	-78.711	282128.35	0.0425	P	2.1
3	☐	1000.000	1080.309	332215.25	0.0511	P	0.8
4	☐	2500.000	2766.109	398353.30	0.0636	P	4.3
5	☐	5000.000	4867.167	498250.78	0.0791	P	1.6
6	☐	10000.000	9547.312	713761.23	0.1138	P	2.1
7	☐	20000.000	20222.273	1216847.96	0.1928	A	1.6
8	☐			257994.03	0.0412	P	1.3

$$y = 7.4020\text{E-}006 * x + 0.0431$$

$$R = 0.9994$$

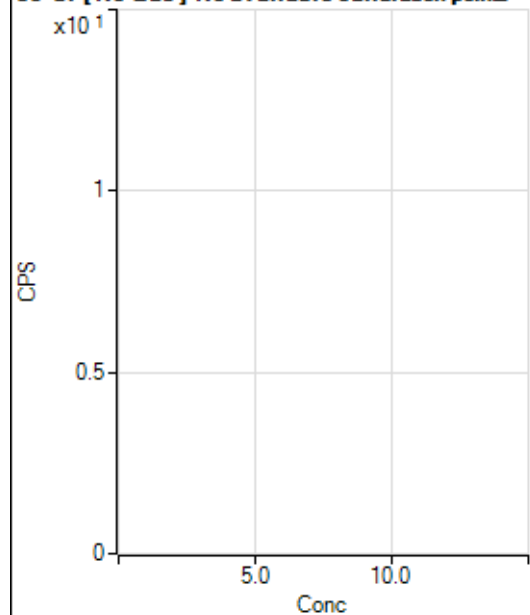
$$DL = 216.7$$

$$BEC = 5825$$

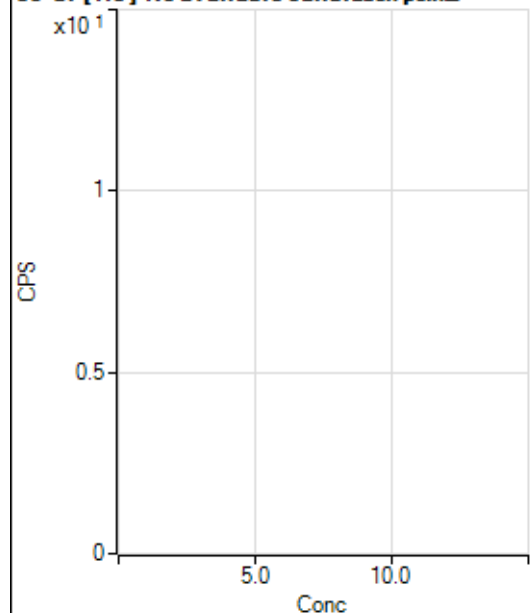
Weight: <None>

Min Conc: 0

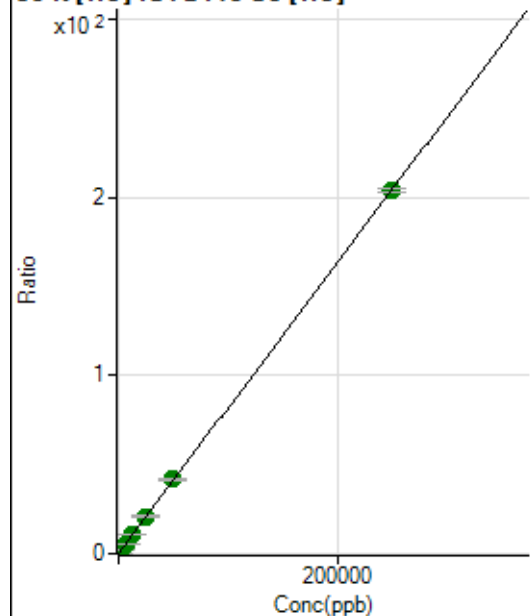
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	69431.02	0.1349	P	0.2
2	☐	500.000	491.633	277800.19	0.5355	P	0.1
3	☐	2500.000	2657.442	1184580.59	2.3002	A	1.0
4	☐	6250.000	6666.120	2809813.02	5.5665	A	2.3
5	☐	12500.000	13231.257	5383812.58	10.9158	A	0.9
6	☐	25000.000	25163.095	10529414.99	20.6380	A	4.0
7	☐	50000.000	51090.201	20848710.53	41.7635	A	1.8
8	☐	250000.00	249717.12	102819533.5	203.6061	A	1.0

$$y = 8.1481\text{E-}004 * x + 0.1349$$

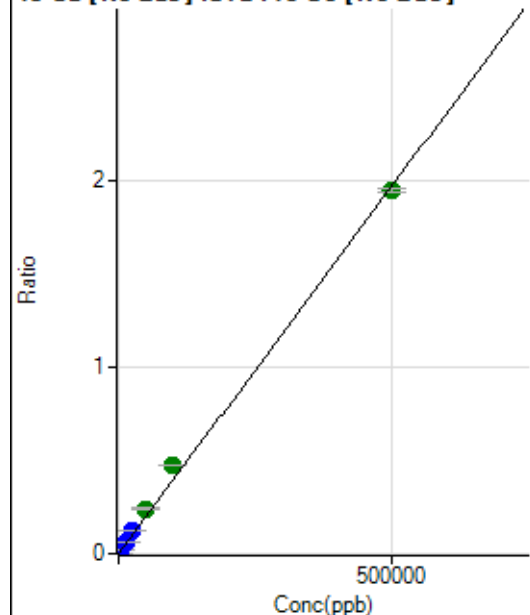
$$R = 1.0000$$

$$DL = 0.9215$$

$$BEC = 165.6$$

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	194.45	0.0000	P	39.3
2	☐	500.000	488.784	12972.49	0.0020	P	4.4
3	☐	5000.000	6494.126	166475.57	0.0256	P	1.2
4	☐	12500.000	16390.532	404726.23	0.0646	P	2.9
5	☐	25000.000	31996.862	793679.20	0.1261	P	1.5
6	☐	50000.000	60600.933	1496945.34	0.2387	A	5.0
7	☐	100000.00	120953.38	3007271.79	0.4764	A	0.3
8	☐	500000.00	494287.19	12195906.52	1.9468	A	1.2

$$y = 3.9386E-006 * x + 3.0271E-005$$

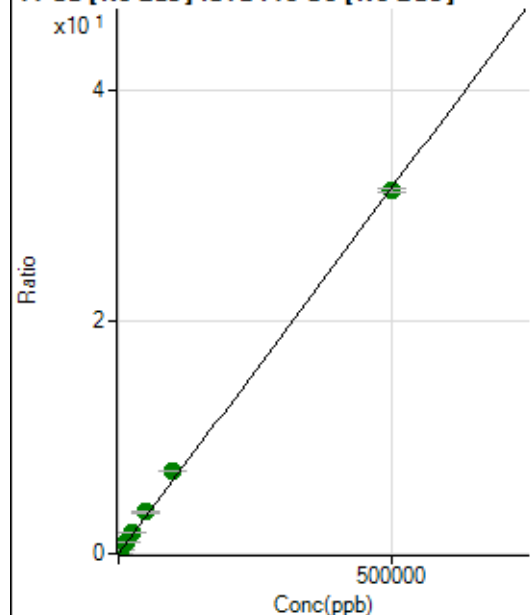
R = 0.9989

DL = 9.06

BEC = 7.686

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	23913.87	0.0037	P	0.8
2	☐	500.000	492.350	230564.20	0.0348	P	2.9
3	☐	5000.000	5902.244	2443033.09	0.3758	A	0.6
4	☐	12500.000	14823.006	5879341.84	0.9382	A	2.7
5	☐	25000.000	28831.826	11467548.95	1.8213	A	1.3
6	☐	50000.000	57033.023	22574143.21	3.5991	A	3.2
7	☐	100000.00	113271.88	45093116.63	7.1445	A	1.3
8	☐	500000.00	496383.64	196053701.6	31.2962	A	1.1

$$y = 6.3041E-005 * x + 0.0037$$

R = 0.9996

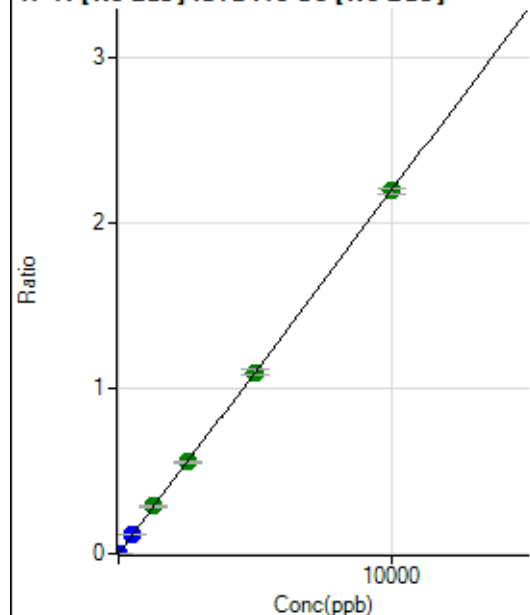
DL = 1.478

BEC = 59.02

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	113.89	0.0000	P	49.4
2	☐	5.000	3.859	5734.60	0.0009	P	2.5
3	☐	500.000	516.156	736272.83	0.1133	P	0.8
4	☐	1250.000	1310.395	1802045.50	0.2875	A	2.6
5	☐	2500.000	2516.593	3476979.94	0.5522	A	1.5
6	☐	5000.000	5001.468	6882584.18	1.0975	A	4.1
7	☐	10000.000	9986.761	13830693.36	2.1913	A	1.3
8	☐			2219.65	0.0004	P	7.8

$$y = 2.1942\text{E-}004 * x + 1.7788\text{E-}005$$

$$R = 1.0000$$

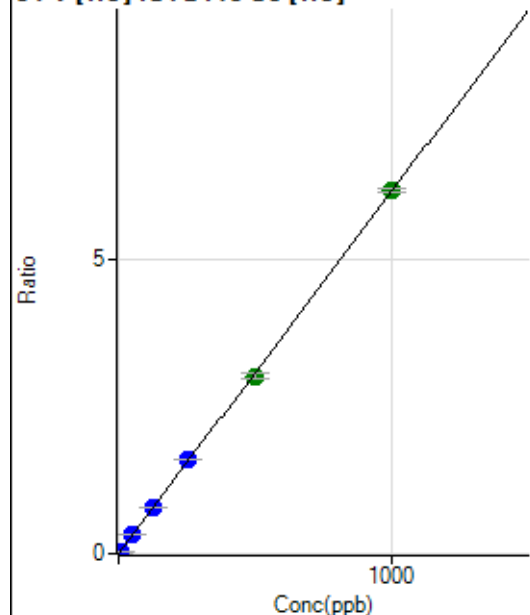
$$DL = 0.12$$

$$BEC = 0.08107$$

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	11.11	0.0000	P	62.4
2	☐	5.000	4.660	14886.32	0.0287	P	1.4
3	☐	50.000	52.321	165809.81	0.3220	P	0.7
4	☐	125.000	129.546	402371.87	0.7971	P	0.7
5	☐	250.000	259.099	786335.32	1.5943	P	0.8
6	☐	500.000	490.625	1540189.63	3.0189	A	4.1
7	☐	1000.000	1001.730	3077159.23	6.1639	A	1.2
8	☐			698.91	0.0014	P	1.6

$$y = 0.0062 * x + 2.1557\text{E-}005$$

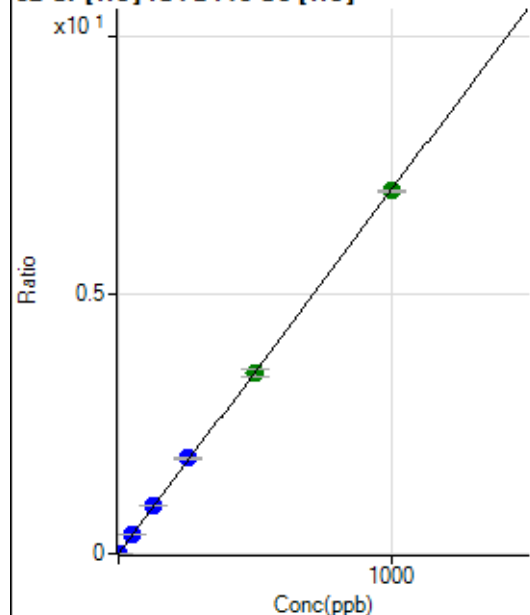
$$R = 0.9999$$

$$DL = 0.006559$$

$$BEC = 0.003503$$

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	1006.71	0.0020	P	5.3
2	☐	2.000	1.831	7693.15	0.0148	P	2.9
3	☐	50.000	52.993	192940.76	0.3746	P	0.9
4	☐	125.000	131.571	468064.78	0.9273	P	0.7
5	☐	250.000	262.438	911284.24	1.8477	P	1.1
6	☐	500.000	497.965	1787688.95	3.5041	A	4.2
7	☐	1000.000	996.937	3501466.37	7.0134	A	0.5
8	☐			20346.03	0.0403	P	0.8

$$y = 0.0070 * x + 0.0020$$

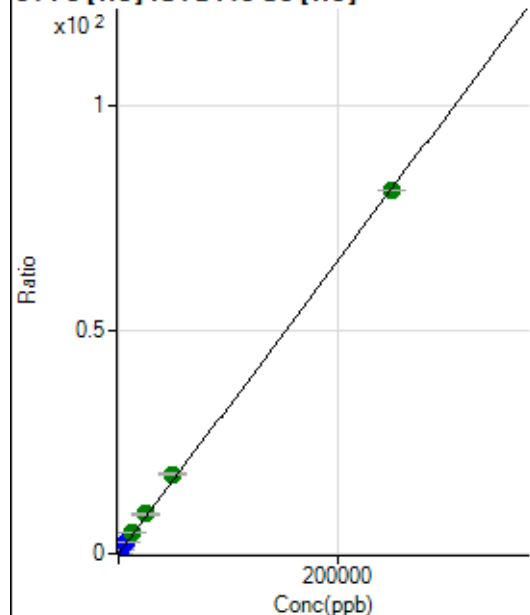
$$R = 0.9999$$

$$DL = 0.04387$$

$$BEC = 0.2781$$

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	1882.05	0.0037	P	4.7
2	☐	50.000	53.796	10991.99	0.0212	P	0.6
3	☐	2500.000	3037.944	511755.79	0.9937	P	0.7
4	☐	6250.000	7487.775	1233589.17	2.4439	P	0.7
5	☐	12500.000	14483.486	2329837.62	4.7237	A	0.5
6	☐	25000.000	27286.091	4538656.57	8.8960	A	4.0
7	☐	50000.000	54573.888	8881290.14	17.7889	A	0.6
8	☐	250000.00	248721.11	40934435.50	81.0601	A	0.1

$$y = 3.2589E-004 * x + 0.0037$$

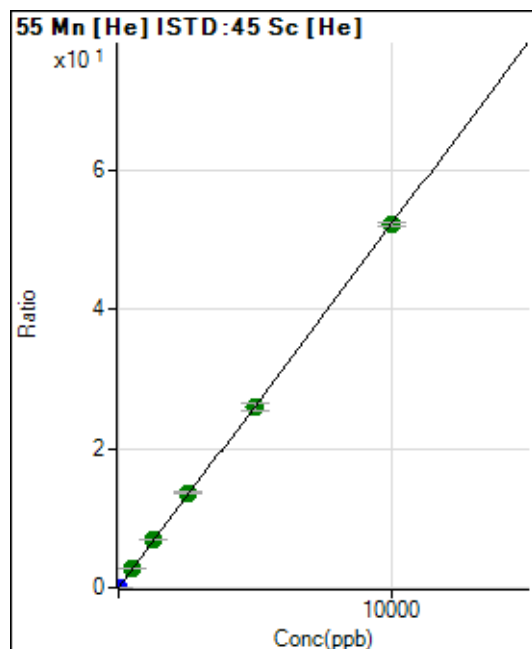
$$R = 0.9998$$

$$DL = 1.579$$

$$BEC = 11.22$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0004	P	5.9
2	☐	1.000	1.039	3011.44	0.0058	P	0.5
3	☐	500.000	529.906	1426026.07	2.7690	A	0.4
4	☐	1250.000	1307.625	3448724.39	6.8324	A	0.8
5	☐	2500.000	2609.494	6724539.69	13.6343	A	1.8
6	☐	5000.000	4974.328	13258077.86	25.9899	A	4.4
7	☐	10000.000	9976.764	26024214.89	52.1263	A	0.9
8	☐			25911.24	0.0513	P	0.9

$$y = 0.0052 * x + 3.7789E-004$$

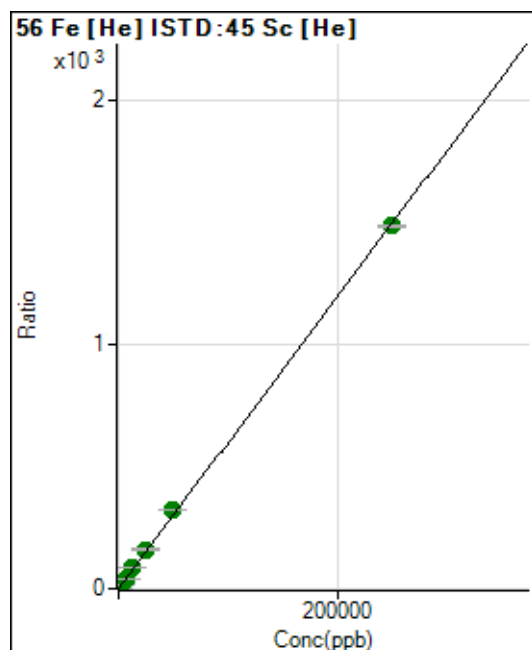
$$R = 0.9999$$

$$DL = 0.01282$$

$$BEC = 0.07233$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11208.03	0.0218	P	0.2
2	☐	50.000	51.345	170512.33	0.3287	P	0.2
3	☐	2500.000	2885.694	8894117.73	17.2707	A	1.7
4	☐	6250.000	7097.297	21424433.12	42.4451	A	1.5
5	☐	12500.000	14322.875	42235496.31	85.6353	A	1.7
6	☐	25000.000	26954.578	82198150.91	161.1399	A	4.6
7	☐	50000.000	54108.231	161476885.0	323.4481	A	1.1
8	☐	250000.00	248866.71	751221905.6	1487.596	A	0.3

$$y = 0.0060 * x + 0.0218$$

$$R = 0.9998$$

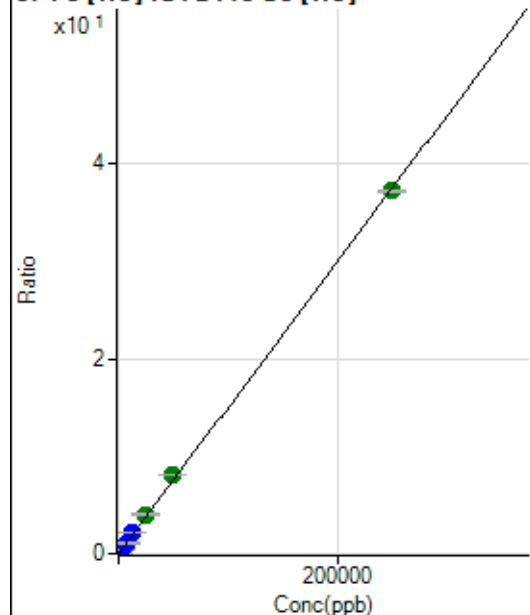
$$DL = 0.025$$

$$BEC = 3.643$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	672.25	0.0013	P	11.5
2	☐	50.000	50.740	4610.03	0.0089	P	1.2
3	☐	2500.000	2931.528	226197.38	0.4392	P	1.3
4	☐	6250.000	7246.784	547103.84	1.0839	P	0.5
5	☐	12500.000	14501.454	1069075.03	2.1676	P	1.2
6	☐	25000.000	26855.311	2047193.35	4.0131	A	4.4
7	☐	50000.000	53942.743	4023481.63	8.0595	A	1.3
8	☐	250000.00	248896.61	18776664.31	37.1825	A	0.2

$$y = 1.4938\text{E-}004 * x + 0.0013$$

$$R = 0.9999$$

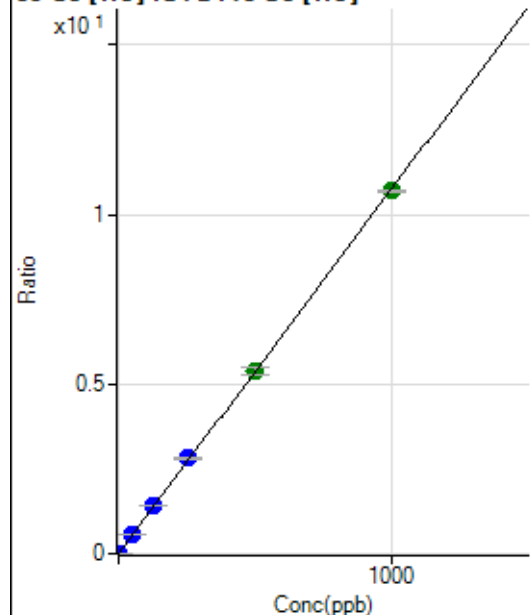
$$DL = 3.011$$

$$BEC = 8.746$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0001	P	50.2
2	☐	1.000	0.927	5238.74	0.0101	P	4.2
3	☐	50.000	53.044	293731.30	0.5704	P	0.5
4	☐	125.000	131.194	711947.99	1.4105	P	1.0
5	☐	250.000	261.646	1387335.24	2.8128	P	0.8
6	☐	500.000	501.906	2753083.26	5.3957	A	3.7
7	☐	1000.000	995.209	5341299.40	10.6987	A	0.7
8	☐			5608.88	0.0111	P	1.1

$$y = 0.0108 * x + 1.3620\text{E-}004$$

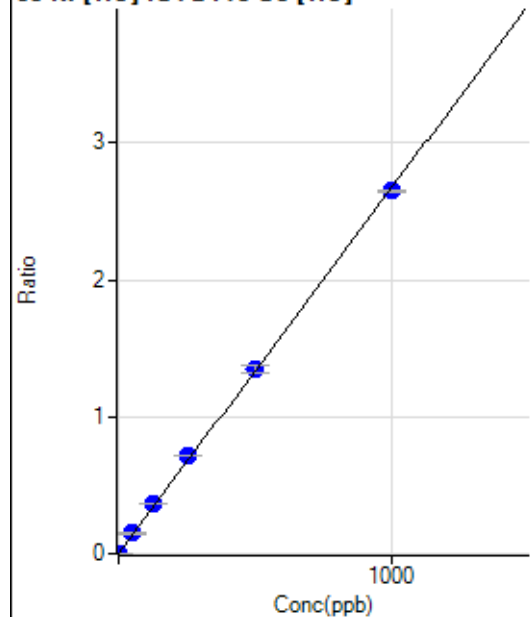
$$R = 0.9999$$

$$DL = 0.01907$$

$$BEC = 0.01267$$

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	183.34	0.0004	P	5.9
2	☐	1.000	1.035	1617.88	0.0031	P	8.5
3	☐	50.000	55.272	76202.13	0.1480	P	0.7
4	☐	125.000	136.151	183718.11	0.3640	P	0.7
5	☐	250.000	269.088	354620.17	0.7190	P	0.8
6	☐	500.000	503.024	685538.28	1.3438	P	4.2
7	☐	1000.000	992.059	1322925.41	2.6498	P	0.3
8	☐			4397.35	0.0087	P	3.6

$$y = 0.0027 * x + 3.5632E-004$$

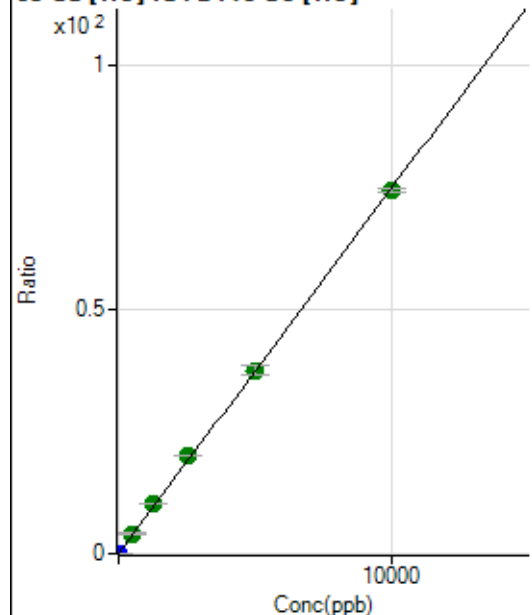
R = 0.9998

DL = 0.02379

BEC = 0.1334

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	1236.73	0.0024	P	6.3
2	☐	2.000	1.935	8744.83	0.0169	P	4.0
3	☐	500.000	550.880	2121047.80	4.1187	A	1.7
4	☐	1250.000	1360.850	5133789.89	10.1709	A	1.7
5	☐	2500.000	2682.641	9887719.09	20.0475	A	0.8
6	☐	5000.000	5019.196	19133131.66	37.5065	A	4.5
7	☐	10000.000	9928.342	37036908.61	74.1884	A	1.2
8	☐			7404.12	0.0147	P	2.6

$$y = 0.0075 * x + 0.0024$$

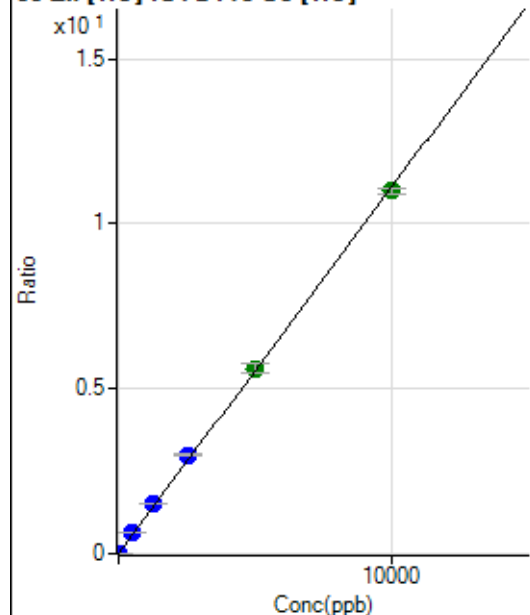
R = 0.9998

DL = 0.06116

BEC = 0.3216

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	761.14	0.0015	P	4.5
2	☐	2.000	2.505	2210.19	0.0043	P	4.9
3	☐	500.000	558.683	320229.82	0.6218	P	0.7
4	☐	1250.000	1375.449	771629.96	1.5287	P	0.9
5	☐	2500.000	2697.473	1477984.56	2.9966	P	0.6
6	☐	5000.000	5059.416	2866209.33	5.6192	A	4.9
7	☐	10000.000	9902.308	5489555.54	10.9965	A	1.7
8	☐			4175.07	0.0083	P	2.2

$$y = 0.0011 * x + 0.0015$$

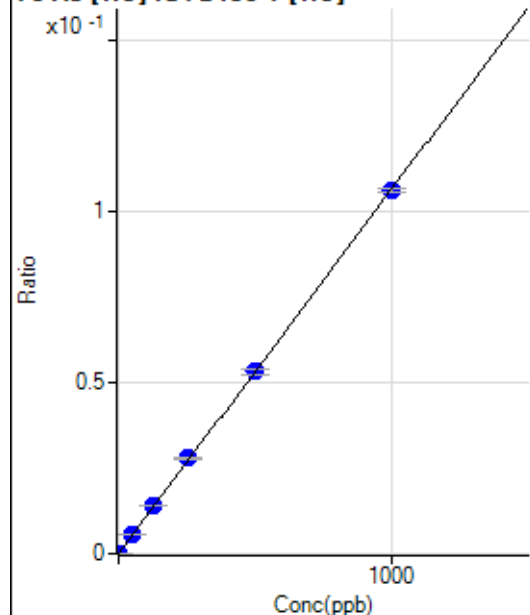
$$R = 0.9997$$

$$DL = 0.179$$

$$BEC = 1.332$$

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	1.85	0.0000	P	99.8
2	☐	1.000	1.015	397.54	0.0001	P	7.1
3	☐	50.000	53.520	20669.90	0.0057	P	0.8
4	☐	125.000	132.107	49997.15	0.0141	P	1.7
5	☐	250.000	261.561	97042.56	0.0279	P	1.3
6	☐	500.000	500.437	191532.62	0.0533	P	3.4
7	☐	1000.000	995.827	375801.86	0.1061	P	0.9
8	☐			113.58	0.0000	P	1.1

$$y = 1.0659E-004 * x + 5.0419E-007$$

$$R = 0.9999$$

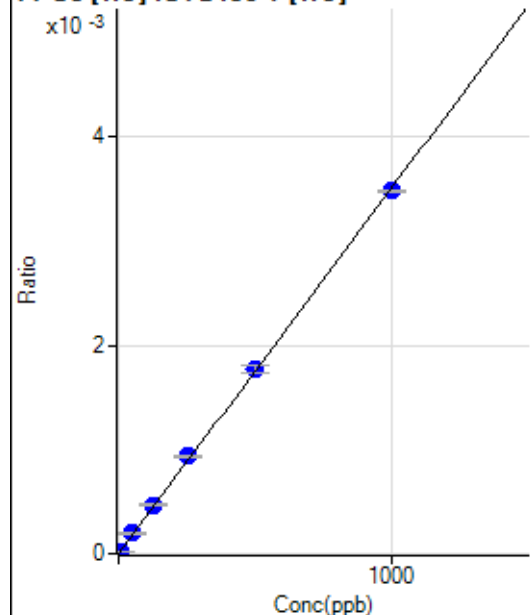
$$DL = 0.01416$$

$$BEC = 0.00473$$

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	4.761	61.11	0.0000	P	35.9
3	☐	50.000	57.486	730.03	0.0002	P	9.4
4	☐	125.000	133.371	1660.11	0.0005	P	4.3
5	☐	250.000	266.466	3251.50	0.0009	P	2.6
6	☐	500.000	503.340	6335.86	0.0018	P	4.4
7	☐	1000.000	992.794	12324.10	0.0035	P	0.4
8	☐			6.67	0.0000	P	50.0

$$y = 3.5062\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

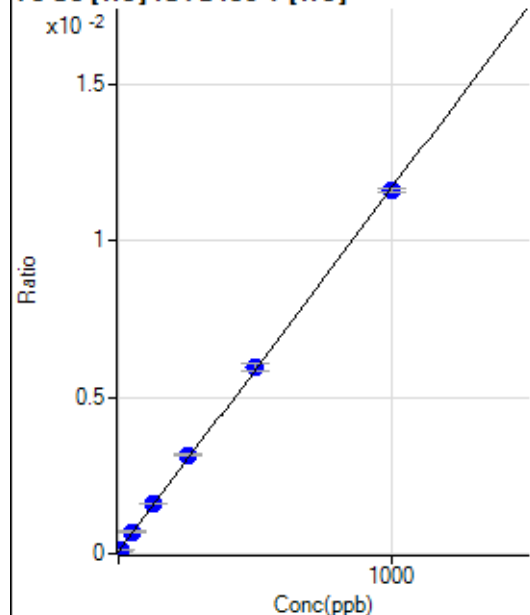
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	259.26	0.0001	P	9.4
2	☐	5.000	4.198	437.67	0.0001	P	2.6
3	☐	50.000	54.476	2548.38	0.0007	P	5.8
4	☐	125.000	132.767	5727.67	0.0016	P	1.5
5	☐	250.000	264.140	10925.65	0.0031	P	1.8
6	☐	500.000	505.405	21330.77	0.0059	P	3.9
7	☐	1000.000	992.572	41067.06	0.0116	P	1.2
8	☐			258.65	0.0001	P	15.2

$$y = 1.1615\text{E-}005 * x + 7.0941\text{E-}005$$

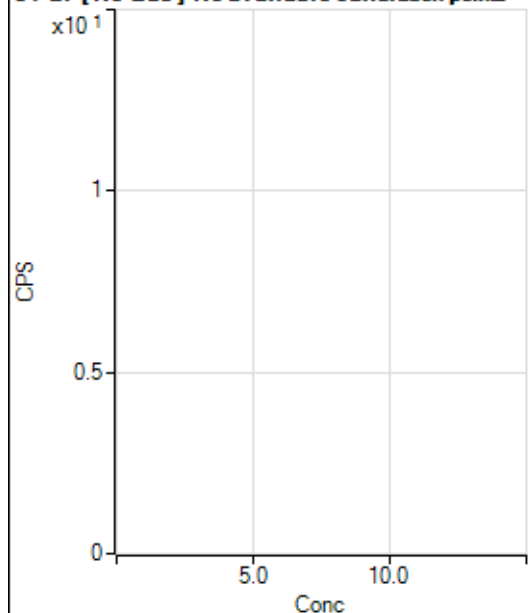
$$R = 0.9999$$

$$DL = 1.727$$

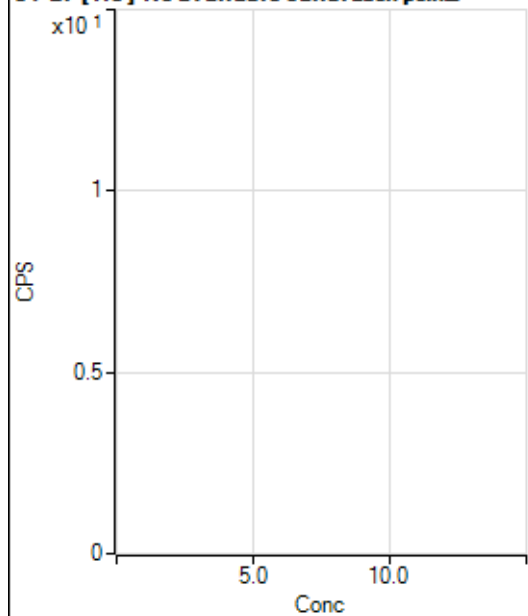
$$BEC = 6.108$$

Weight: <None>

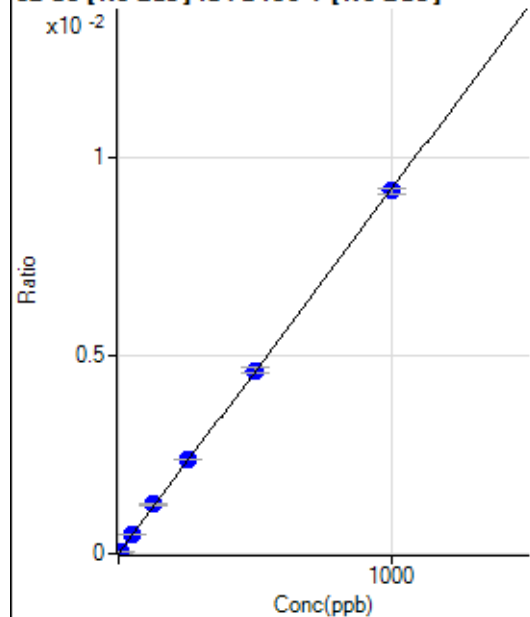
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24131.49		P	0.2
2	☐			24676.84		P	1.5
3	☐			24000.61		P	2.0
4	☐			24353.94		P	1.3
5	☐			23385.81		P	0.6
6	☐			23494.24		P	2.0
7	☐			24006.29		P	2.2
8	☐			24957.72		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.08		P	37.5
2	☐			93.43		P	27.0
3	☐			93.43		P	16.4
4	☐			100.10		P	36.1
5	☐			76.75		P	37.7
6	☐			96.76		P	51.0
7	☐			96.76		P	39.2
8	☐			110.11		P	39.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57.82	0.0000	P	45.9
2	☐	5.000	4.466	702.46	0.0000	P	5.5
3	☐	50.000	53.954	7736.88	0.0005	P	2.4
4	☐	125.000	134.497	18566.26	0.0012	P	1.7
5	☐	250.000	258.266	35992.99	0.0024	P	0.8
6	☐	500.000	502.917	69700.20	0.0046	P	2.7
7	☐	1000.000	995.093	137448.50	0.0092	P	1.7
8	☐			246.01	0.0000	P	26.8

$$y = 9.1953\text{E-}006 * x + 3.8028\text{E-}006$$

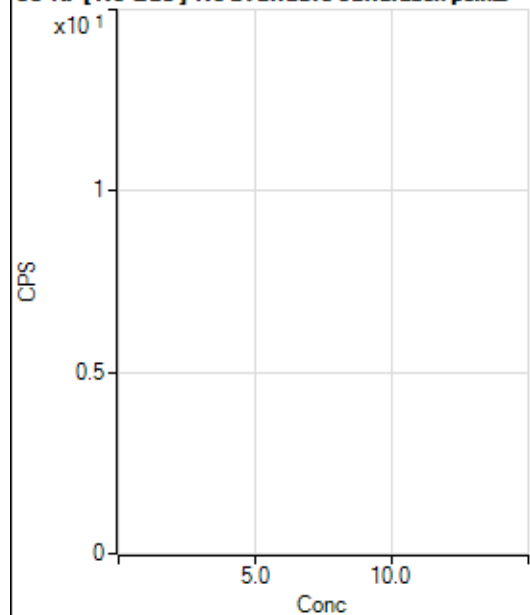
R = 0.9999

DL = 0.5689

BEC = 0.4136

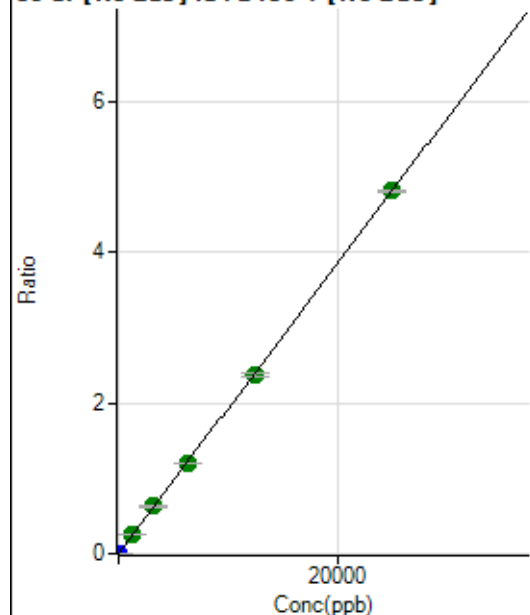
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			216.67		P	14.1
2	☐			214.45		P	17.1
3	☐			220.01		P	6.9
4	☐			255.56		P	10.6
5	☐			211.11		P	10.3
6	☐			220.00		P	8.4
7	☐			246.67		P	10.2
8	☐			262.23		P	4.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	372.24	0.0000	P	9.4
2	☐	1.000	0.898	3086.52	0.0002	P	5.7
3	☐	1250.000	1282.449	3819247.79	0.2468	A	0.8
4	☐	3125.000	3257.137	9377588.66	0.6268	A	3.0
5	☐	6250.000	6260.604	18229010.82	1.2047	A	0.5
6	☐	12500.000	12362.736	35824359.48	2.3789	A	2.7
7	☐	25000.000	25047.841	72382195.37	4.8197	A	0.5
8	☐			19869.44	0.0013	P	4.3

$$y = 1.9242\text{E-}004 * x + 2.4435\text{E-}005$$

$$R = 1.0000$$

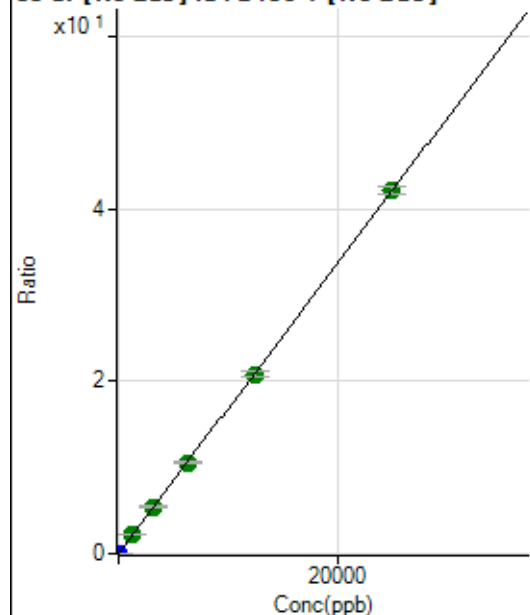
$$DL = 0.03585$$

$$BEC = 0.127$$

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	288.90	0.0000	P	12.6
2	☐	1.000	0.884	23555.55	0.0015	P	3.9
3	☐	1250.000	1277.774	33250077.83	2.1485	A	1.1
4	☐	3125.000	3223.047	81100062.23	5.4194	A	2.1
5	☐	6250.000	6298.300	160255302.1	10.5902	A	1.1
6	☐	12500.000	12353.355	312799501.4	20.7714	A	3.2
7	☐	25000.000	25047.603	632328575.2	42.1159	A	2.2
8	☐			168893.17	0.0113	P	4.9

$$y = 0.0017 * x + 1.8987\text{E-}005$$

$$R = 1.0000$$

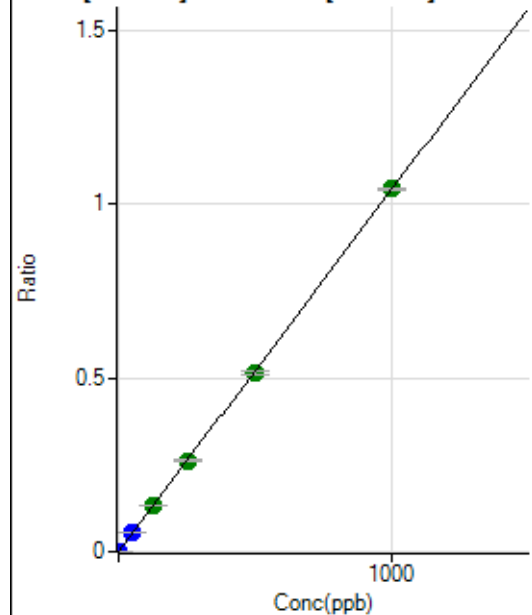
$$DL = 0.004258$$

$$BEC = 0.01129$$

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	569.47	0.0000	P	8.2
2	☐	1.000	0.802	13656.66	0.0009	P	2.7
3	☐	50.000	51.228	825663.23	0.0533	P	2.0
4	☐	125.000	128.839	2007180.69	0.1341	A	1.9
5	☐	250.000	252.112	3970544.75	0.2624	A	0.5
6	☐	500.000	493.534	7735252.95	0.5137	A	2.9
7	☐	1000.000	1002.164	15663690.98	1.0430	A	0.8
8	☐			3975.65	0.0003	P	2.6

$$y = 0.0010 * x + 3.7403E-005$$

$$R = 1.0000$$

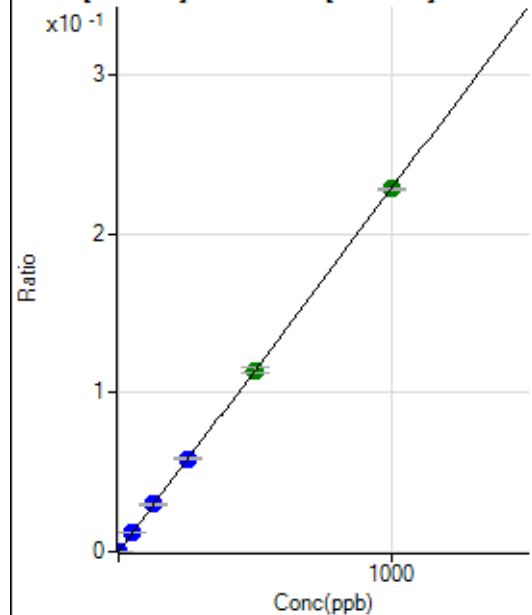
$$DL = 0.008794$$

$$BEC = 0.03594$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	29.2
2	☐	1.000	0.847	3139.31	0.0002	P	9.5
3	☐	50.000	51.634	182812.42	0.0118	P	1.3
4	☐	125.000	130.784	447602.59	0.0299	P	2.0
5	☐	250.000	255.763	885036.36	0.0585	P	1.4
6	☐	500.000	498.520	1716700.99	0.1140	A	2.8
7	☐	1000.000	998.495	3428832.72	0.2283	A	0.4
8	☐			763.93	0.0001	P	10.8

$$y = 2.2864E-004 * x + 6.9239E-006$$

$$R = 1.0000$$

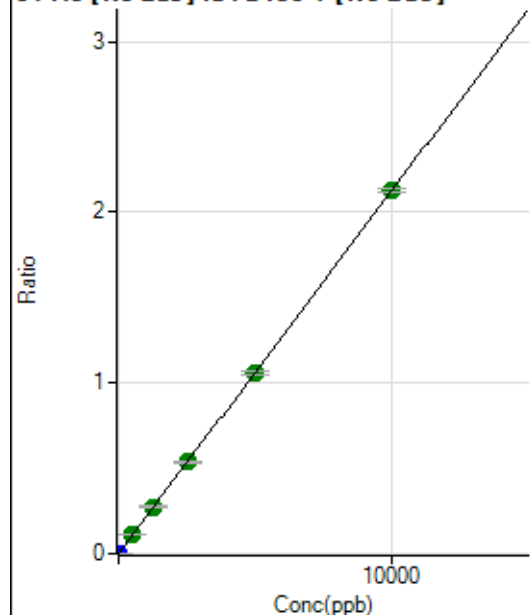
$$DL = 0.02654$$

$$BEC = 0.03028$$

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	188.90	0.0000	P	17.8
2	☐	5.000	4.847	16306.69	0.0010	P	4.5
3	☐	500.000	508.093	1670121.67	0.1079	A	1.3
4	☐	1250.000	1289.993	4099871.62	0.2740	A	2.2
5	☐	2500.000	2527.402	8122141.15	0.5368	A	1.7
6	☐	5000.000	4972.303	15902663.90	1.0560	A	2.6
7	☐	10000.000	10001.594	31896450.37	2.1241	A	1.2
8	☐			8716.69	0.0006	P	8.1

$$y = 2.1237\text{E-}004 * x + 1.2406\text{E-}005$$

$$R = 1.0000$$

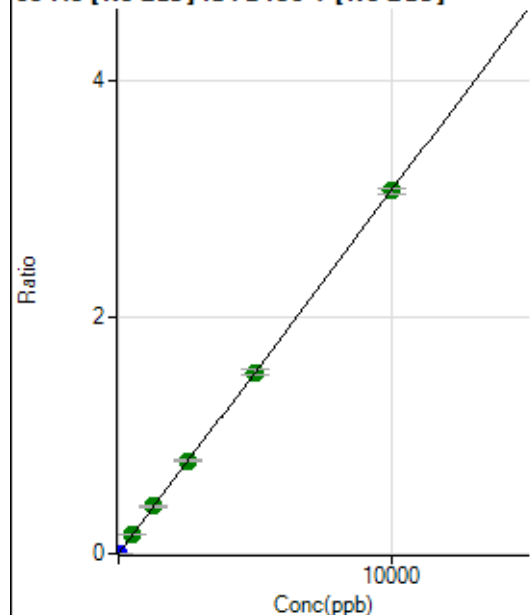
$$DL = 0.03115$$

$$BEC = 0.05842$$

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	38.89	0.0000	P	44.1
2	☐	5.000	4.130	19900.12	0.0013	P	4.8
3	☐	500.000	514.635	2446823.79	0.1581	A	1.2
4	☐	1250.000	1302.002	5986282.51	0.4000	A	1.8
5	☐	2500.000	2547.289	11841656.08	0.7826	A	1.6
6	☐	5000.000	4985.385	23065080.90	1.5316	A	3.0
7	☐	10000.000	9988.254	46076727.42	3.0685	A	1.3
8	☐			11743.91	0.0008	P	7.3

$$y = 3.0721\text{E-}004 * x + 2.5511\text{E-}006$$

$$R = 1.0000$$

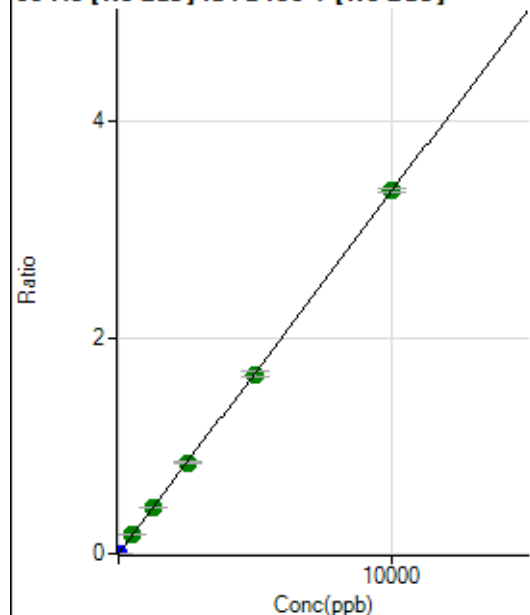
$$DL = 0.01098$$

$$BEC = 0.008304$$

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	72.22	0.0000	P	47.0
2	☐	5.000	4.183	22033.74	0.0014	P	3.4
3	☐	500.000	514.711	2671443.46	0.1726	A	1.6
4	☐	1250.000	1279.339	6421800.19	0.4290	A	1.2
5	☐	2500.000	2520.678	12791549.33	0.8453	A	0.8
6	☐	5000.000	4949.059	24993405.94	1.6597	A	3.7
7	☐	10000.000	10015.898	50437989.67	3.3589	A	1.2
8	☐			24306.85	0.0016	P	4.0

$$y = 3.3536E-004 * x + 4.7518E-006$$

$$R = 1.0000$$

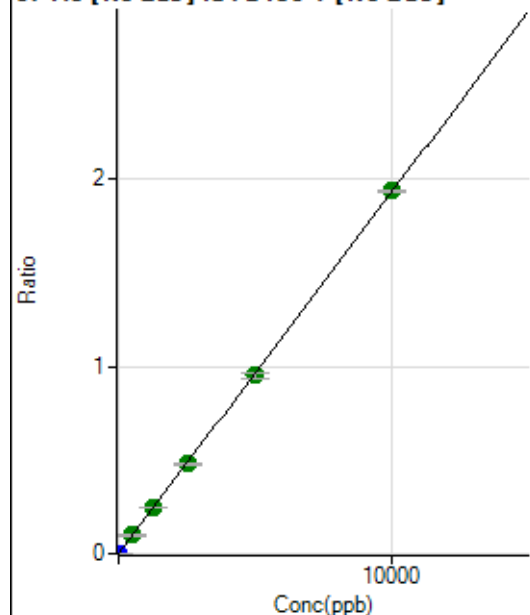
$$DL = 0.01997$$

$$BEC = 0.01417$$

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	19.44	0.0000	P	98.5
2	☐	5.000	4.076	12336.07	0.0008	P	5.6
3	☐	500.000	506.830	1514215.51	0.0978	A	1.7
4	☐	1250.000	1277.354	3690735.63	0.2466	A	1.9
5	☐	2500.000	2483.400	7254389.83	0.4794	A	0.9
6	☐	5000.000	4924.436	14315466.12	0.9507	A	4.1
7	☐	10000.000	10038.172	29102303.78	1.9379	A	0.6
8	☐			7507.66	0.0005	P	7.2

$$y = 1.9305E-004 * x + 1.2722E-006$$

$$R = 0.9999$$

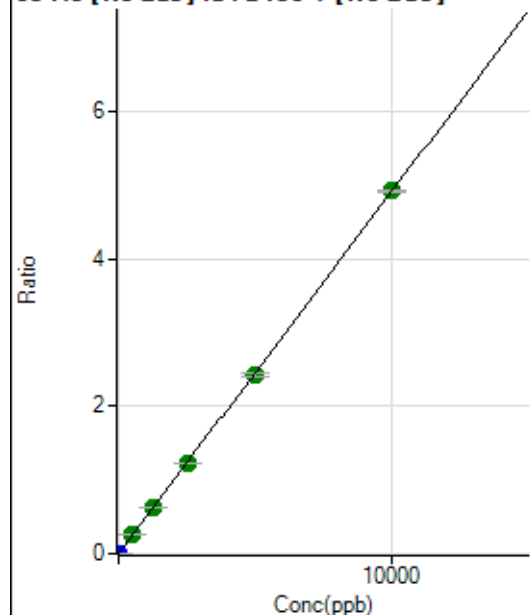
$$DL = 0.01947$$

$$BEC = 0.00659$$

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	55.56	0.0000	P	16.7
2	☐	5.000	4.056	31275.75	0.0020	P	5.9
3	☐	500.000	510.009	3881378.95	0.2508	A	1.2
4	☐	1250.000	1293.353	9520119.74	0.6360	A	1.3
5	☐	2500.000	2507.562	18658586.36	1.2331	A	1.1
6	☐	5000.000	4933.057	36531304.98	2.4258	A	2.8
7	☐	10000.000	10025.662	74044719.71	4.9301	A	0.4
8	☐			18106.20	0.0012	P	9.5

$$y = 4.9175\text{E-}004 * x + 3.6464\text{E-}006$$

$$R = 1.0000$$

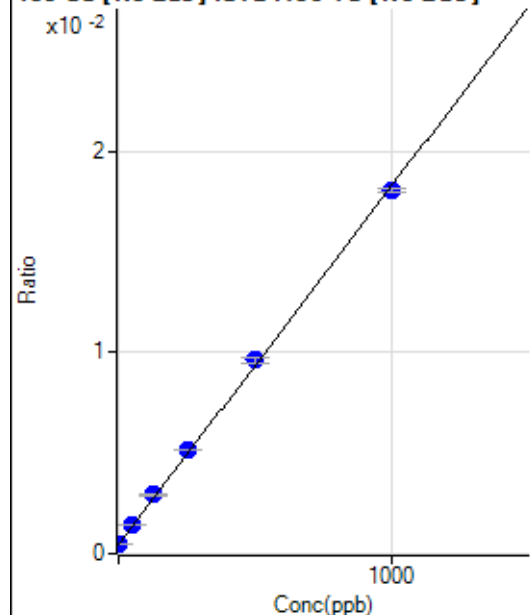
$$DL = 0.003721$$

$$BEC = 0.007415$$

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	5476.18	0.0005	P	0.8
2	☐	1.000	1.474	5993.05	0.0005	P	5.6
3	☐	50.000	54.512	17483.16	0.0014	P	2.9
4	☐	125.000	139.872	35460.82	0.0029	P	2.8
5	☐	250.000	264.926	63729.26	0.0052	P	0.6
6	☐	500.000	514.884	117436.91	0.0096	P	3.3
7	☐	1000.000	986.742	222077.39	0.0180	P	1.2
8	☐			5481.75	0.0005	P	4.3

$$y = 1.7833\text{E-}005 * x + 4.5187\text{E-}004$$

$$R = 0.9996$$

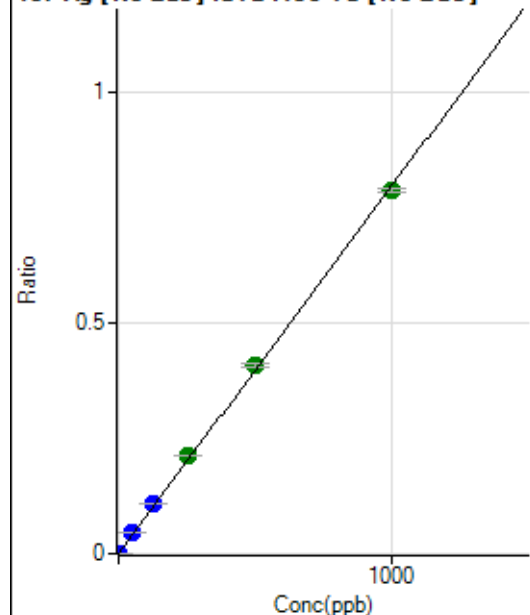
$$DL = 0.6069$$

$$BEC = 25.34$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0000	P	6.9
2	☐	1.000	0.907	9144.82	0.0007	P	1.2
3	☐	50.000	55.477	543082.54	0.0442	P	1.6
4	☐	125.000	136.796	1312724.60	0.1091	P	0.9
5	☐	250.000	267.261	2623687.95	0.2131	A	0.7
6	☐	500.000	512.903	4984993.17	0.4089	A	2.4
7	☐	1000.000	987.485	9687116.97	0.7873	A	1.2
8	☐			4272.97	0.0004	P	3.5

$$y = 7.9723\text{E-}004 * x + 6.4213\text{E-}006$$

$$R = 0.9997$$

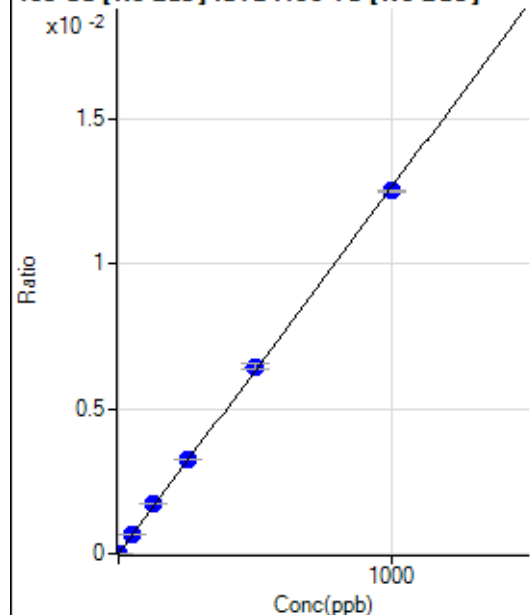
$$DL = 0.001667$$

$$BEC = 0.008054$$

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	15.28	0.0000	P	54.9
2	☐	1.000	1.032	179.17	0.0000	P	19.9
3	☐	50.000	53.673	8352.50	0.0007	P	2.7
4	☐	125.000	137.335	20923.56	0.0017	P	1.9
5	☐	250.000	257.780	40170.81	0.0033	P	0.6
6	☐	500.000	511.387	78883.60	0.0065	P	2.9
7	☐	1000.000	990.636	154248.21	0.0125	P	0.6
8	☐			94.45	0.0000	P	14.3

$$y = 1.2651\text{E-}005 * x + 1.2521\text{E-}006$$

$$R = 0.9998$$

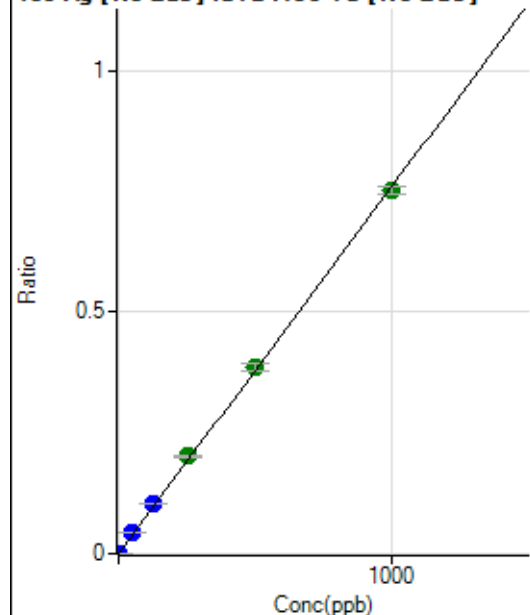
$$DL = 0.1629$$

$$BEC = 0.09897$$

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	8.33	0.0000	P	173.
2	☐	1.000	0.933	8880.73	0.0007	P	6.0
3	☐	50.000	55.657	518579.45	0.0422	P	1.4
4	☐	125.000	137.812	1258688.74	0.1046	P	1.4
5	☐	250.000	265.297	2479172.82	0.2013	A	2.5
6	☐	500.000	509.559	4713836.57	0.3867	A	3.5
7	☐	1000.000	989.512	9239394.05	0.7509	A	2.1
8	☐			4306.31	0.0004	P	3.7

$$y = 7.5891\text{E-}004 * x + 6.9836\text{E-}007$$

$$R = 0.9998$$

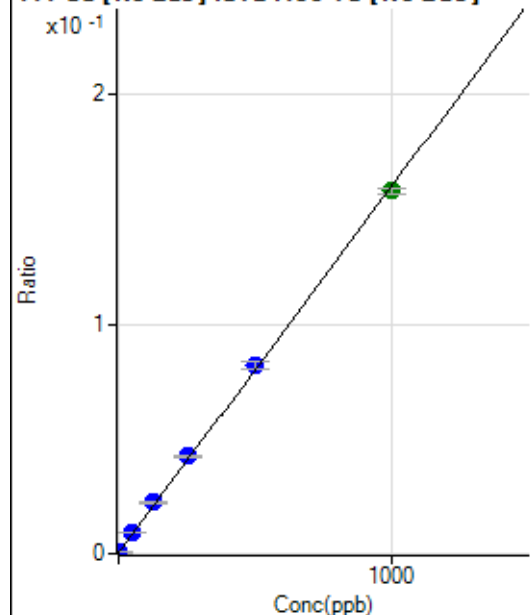
$$DL = 0.004782$$

$$BEC = 0.0009202$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3835.13	0.0003	P	0.8
2	☐	1.000	1.021	6007.37	0.0005	P	6.5
3	☐	50.000	55.371	112373.93	0.0092	P	1.0
4	☐	125.000	137.870	268601.52	0.0223	P	1.6
5	☐	250.000	263.303	521298.18	0.0423	P	0.6
6	☐	500.000	513.755	1003271.16	0.0823	P	3.8
7	☐	1000.000	987.920	1944108.33	0.1580	A	1.3
8	☐			4478.08	0.0004	P	4.4

$$y = 1.5959\text{E-}004 * x + 3.1646\text{E-}004$$

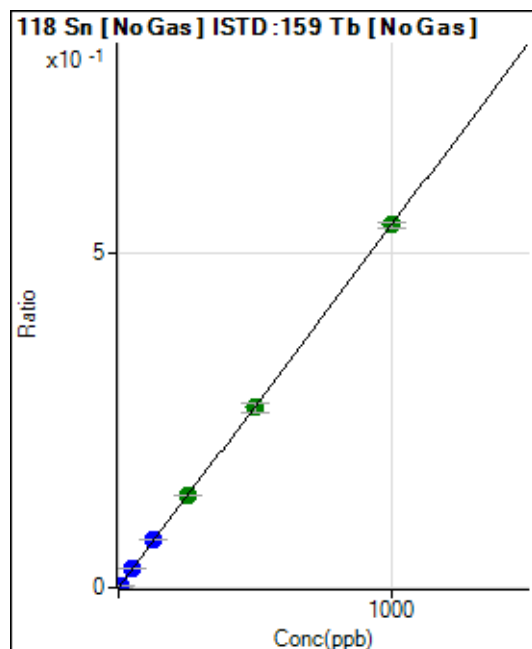
$$R = 0.9997$$

$$DL = 0.05034$$

$$BEC = 1.983$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2075.21	0.0002	P	0.9
2	☐	5.000	4.770	34617.26	0.0028	P	2.9
3	☐	50.000	52.348	351112.91	0.0286	P	1.5
4	☐	125.000	131.065	858682.07	0.0713	P	1.1
5	☐	250.000	253.535	1697506.38	0.1379	A	1.3
6	☐	500.000	496.470	3288114.72	0.2698	A	4.8
7	☐	1000.000	1000.007	6683637.91	0.5432	A	1.8
8	☐			8102.46	0.0007	P	2.2

$$y = 5.4304\text{E-}004 * x + 1.7124\text{E-}004$$

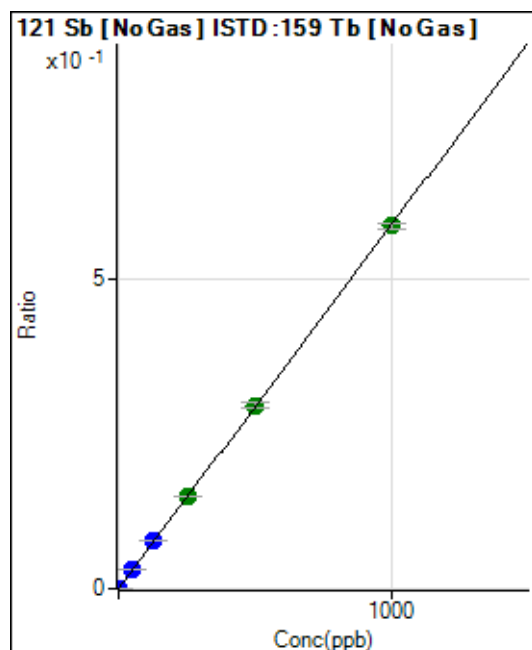
$$R = 1.0000$$

$$DL = 0.008737$$

$$BEC = 0.3153$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.55	0.0000	P	36.5
2	☐	2.000	1.759	13025.66	0.0010	P	2.7
3	☐	50.000	51.980	375420.96	0.0306	P	1.7
4	☐	125.000	130.977	927195.71	0.0770	P	1.5
5	☐	250.000	253.319	1834676.02	0.1490	A	1.4
6	☐	500.000	503.320	3608744.70	0.2960	A	3.3
7	☐	1000.000	996.665	7212974.47	0.5862	A	1.5
8	☐			4695.33	0.0004	P	4.0

$$y = 5.8818\text{E-}004 * x + 4.5722\text{E-}006$$

$$R = 1.0000$$

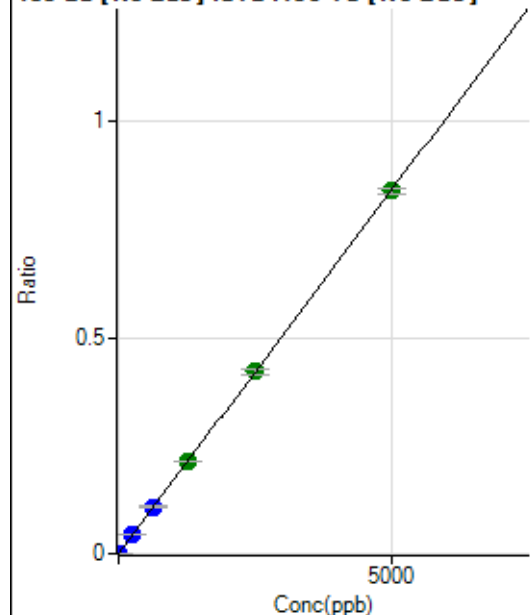
$$DL = 0.008522$$

$$BEC = 0.007774$$

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	33.33	0.0000	P	44.8
2	☐	10.000	8.670	18309.43	0.0015	P	5.2
3	☐	250.000	255.403	527401.65	0.0430	P	0.7
4	☐	625.000	642.323	1299970.04	0.1080	P	2.3
5	☐	1250.000	1265.521	2620736.21	0.2128	A	0.1
6	☐	2500.000	2507.695	5141301.42	0.4218	A	3.4
7	☐	5000.000	4989.840	10326872.63	0.8392	A	1.5
8	☐			4878.74	0.0004	P	3.2

$$y = 1.6819E-004 * x + 2.7619E-006$$

$$R = 1.0000$$

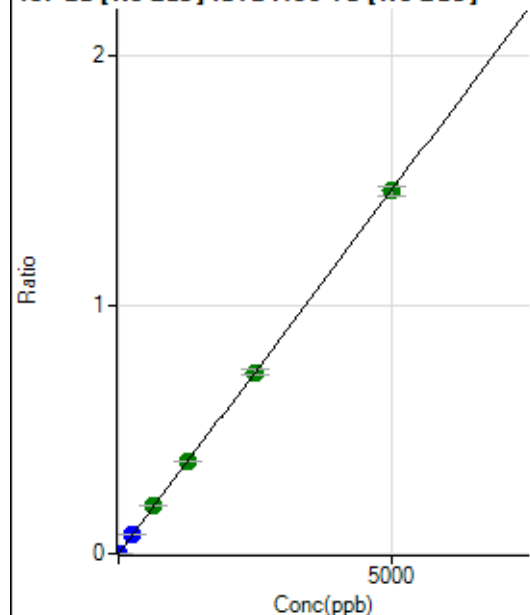
$$DL = 0.02207$$

$$BEC = 0.01642$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	30.3
2	☐	10.000	8.517	31282.27	0.0025	P	4.7
3	☐	250.000	255.610	917582.19	0.0747	P	0.8
4	☐	625.000	653.009	2297923.73	0.1909	A	1.2
5	☐	1250.000	1271.723	4578490.29	0.3718	A	0.9
6	☐	2500.000	2498.089	8902932.75	0.7304	A	3.6
7	☐	5000.000	4991.746	17955762.38	1.4595	A	2.4
8	☐			8866.90	0.0007	P	4.3

$$y = 2.9237E-004 * x + 5.7289E-006$$

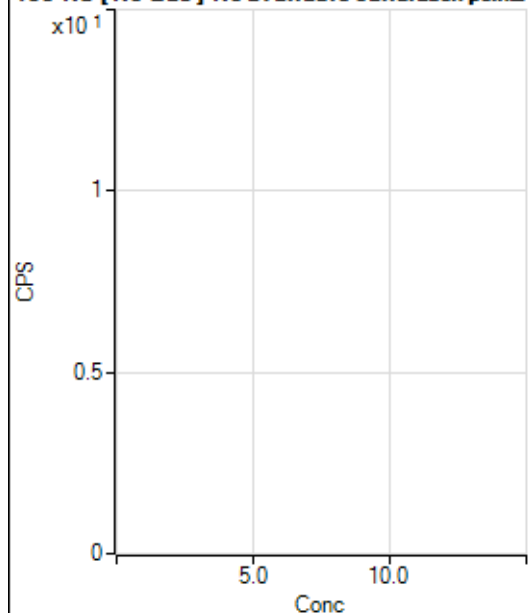
$$R = 1.0000$$

$$DL = 0.01779$$

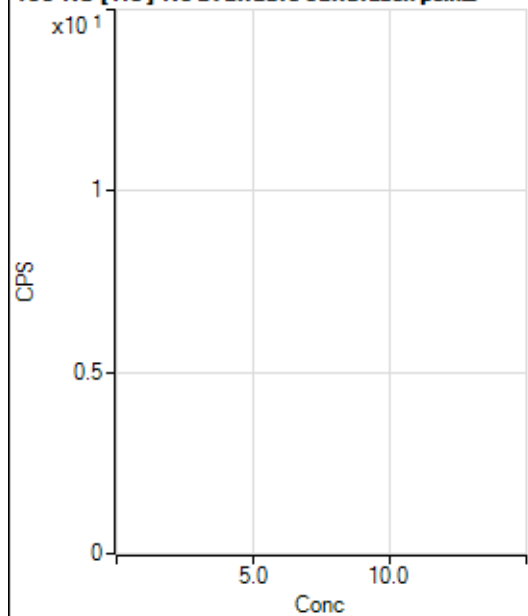
$$BEC = 0.01959$$

Weight: <None>

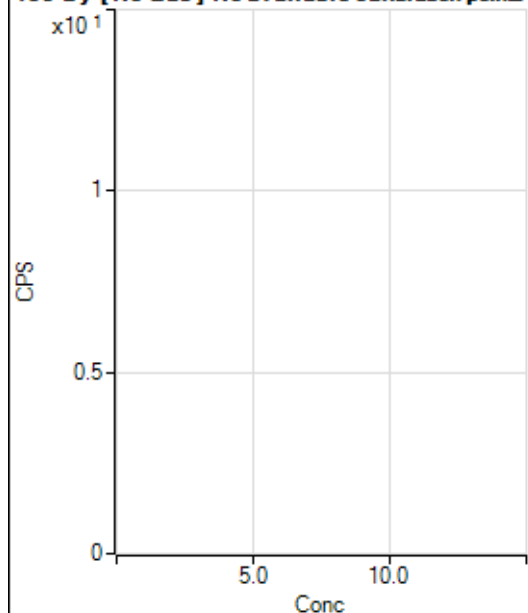
Min Conc: 0

150 Nd [No Gas] No available calibration points

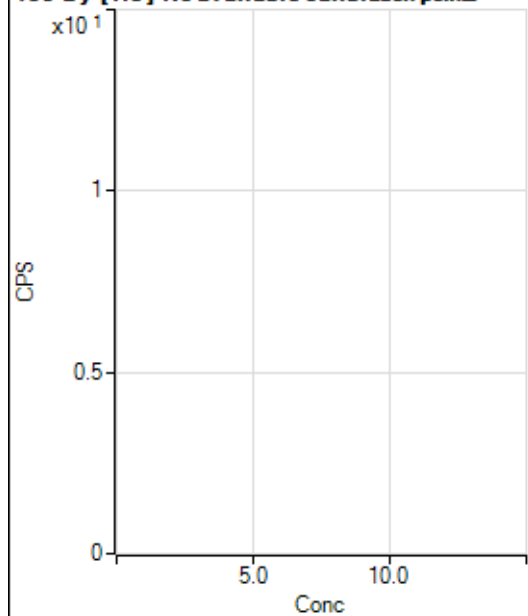
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			6.67		P	100.
3	☐			48.89		P	47.9
4	☐			168.89		P	23.1
5	☐			297.79		P	5.6
6	☐			635.58		P	9.5
7	☐			1157.85		P	11.4
8	☐			42.22		P	48.2

150 Nd [He] No available calibration points

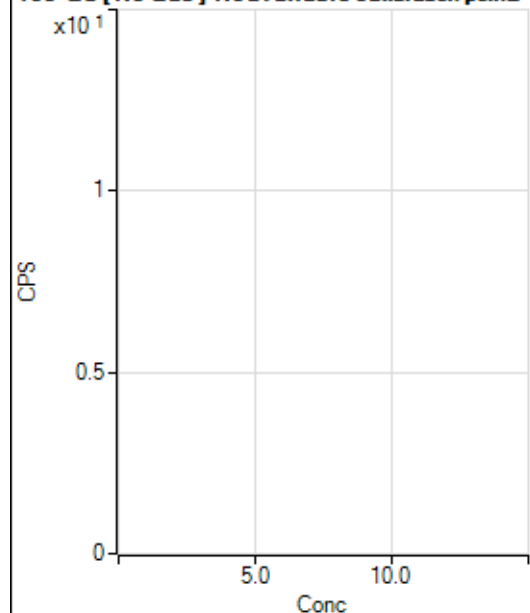
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			2.22		P	86.6
3	☐			16.67		P	52.9
4	☐			46.67		P	35.7
5	☐			86.67		P	21.4
6	☐			167.78		P	14.1
7	☐			316.67		P	3.8
8	☐			38.89		P	13.1

156 Dy [No Gas] No available calibration points

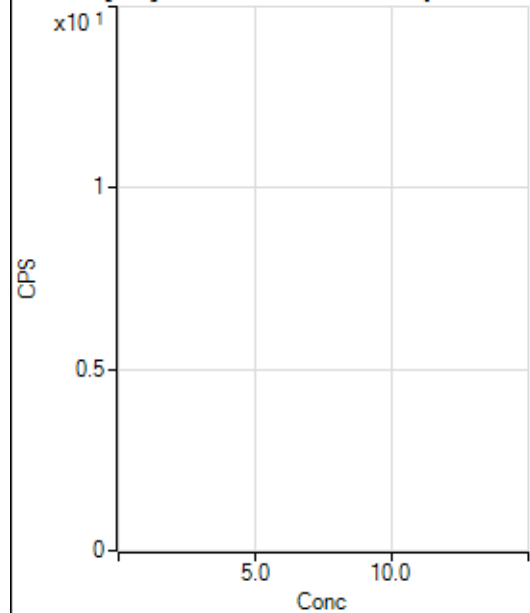
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			11.11		P	86.6
3	☐			36.11		P	13.3
4	☐			61.12		P	7.9
5	☐			152.78		P	15.7
6	☐			325.01		P	6.8
7	☐			622.25		P	11.4
8	☐			1711.26		P	3.9

156 Dy [He] No available calibration points

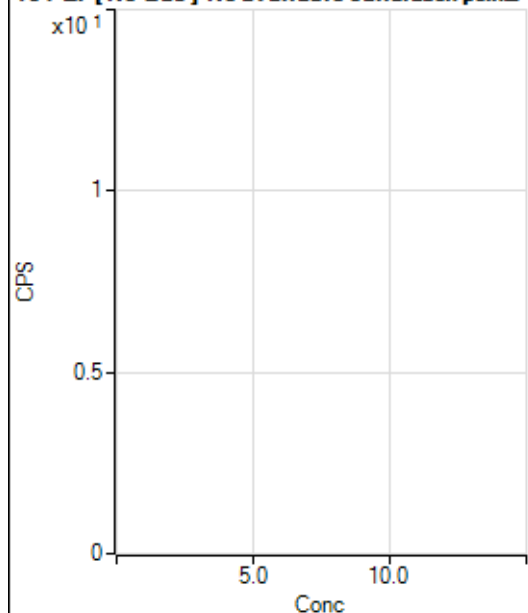
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			35.56		P	48.1
4	☐			94.44		P	14.7
5	☐			163.34		P	10.6
6	☐			304.45		P	7.1
7	☐			654.47		P	11.0
8	☐			1174.51		P	3.1

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

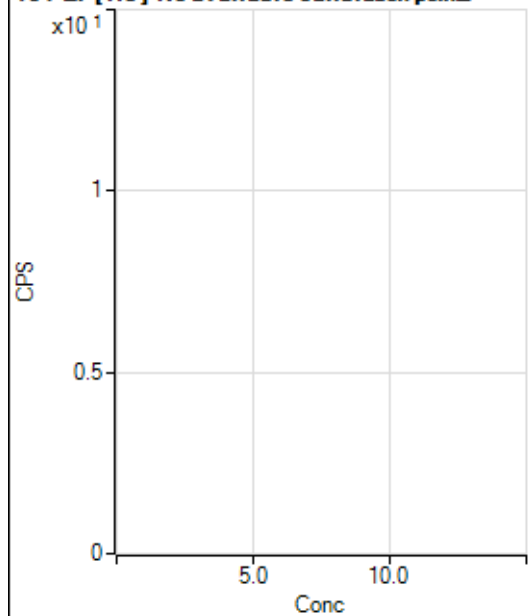
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	25.0
2	☐			61.11		P	7.9
3	☐			83.33		P	17.3
4	☐			58.34		P	28.6
5	☐			133.34		P	47.2
6	☐			244.45		P	25.8
7	☐			497.24		P	6.8
8	☐			1836.28		P	7.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			356.67		P	14.0
2	☐			377.79		P	5.3
3	☐			352.23		P	7.7
4	☐			396.68		P	7.2
5	☐			434.46		P	9.0
6	☐			508.90		P	4.4
7	☐			580.02		P	8.3
8	☐			1517.88		P	5.1

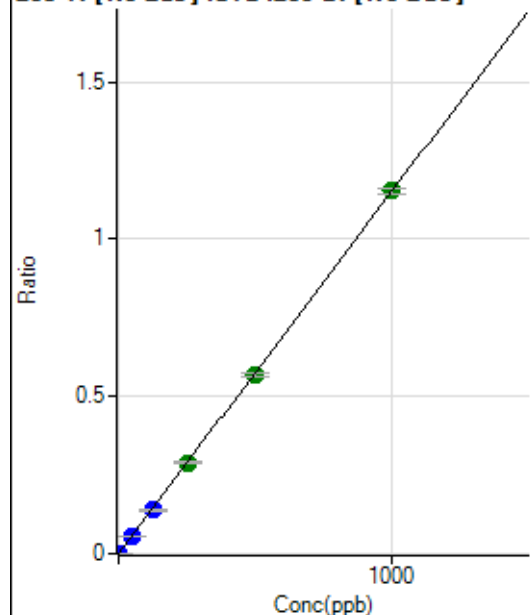
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	30.2
2	☐			72.23		P	26.7
3	☐			91.67		P	24.1
4	☐			91.67		P	27.3
5	☐			138.89		P	29.6
6	☐			161.11		P	20.9
7	☐			255.57		P	12.3
8	☐			102.78		P	30.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	47.2
2	☐			33.33		P	10.0
3	☐			42.22		P	19.9
4	☐			67.78		P	20.5
5	☐			83.33		P	12.0
6	☐			95.56		P	17.9
7	☐			167.78		P	23.0
8	☐			74.44		P	15.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	136.11	0.0000	P	7.4
2	☐	1.000	0.813	7263.26	0.0010	P	9.7
3	☐	50.000	47.036	412041.68	0.0541	P	1.9
4	☐	125.000	120.769	1025864.19	0.1389	P	2.7
5	☐	250.000	251.417	2170215.18	0.2891	A	3.0
6	☐	500.000	494.705	4206430.13	0.5687	A	2.2
7	☐	1000.000	1002.970	8347113.12	1.1531	A	1.5
8	☐			1322.32	0.0002	P	13.1

$$y = 0.0011 * x + 1.8257E-005$$

$$R = 1.0000$$

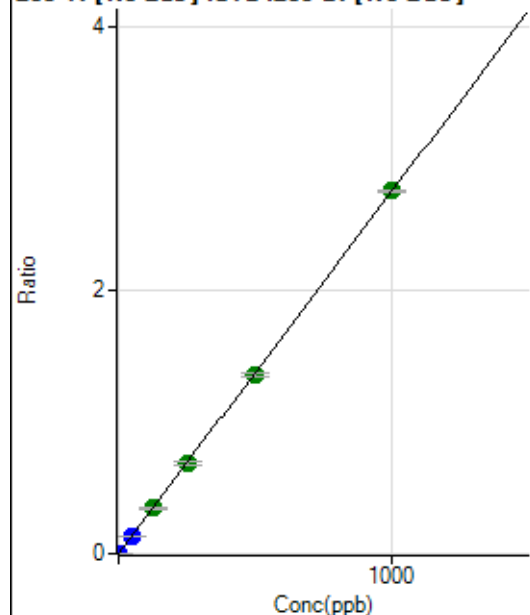
$$DL = 0.003513$$

$$BEC = 0.01588$$

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	311.12	0.0000	P	8.3
2	☐	1.000	0.797	17022.15	0.0022	P	2.4
3	☐	50.000	46.941	982765.89	0.1290	P	1.6
4	☐	125.000	126.008	2558513.49	0.3463	A	2.3
5	☐	250.000	250.223	5162842.21	0.6876	A	2.9
6	☐	500.000	494.774	10055450.05	1.3595	A	2.0
7	☐	1000.000	1002.585	19945428.74	2.7548	A	0.3
8	☐			3019.86	0.0005	P	12.2

$$y = 0.0027 * x + 4.1720E-005$$

$$R = 1.0000$$

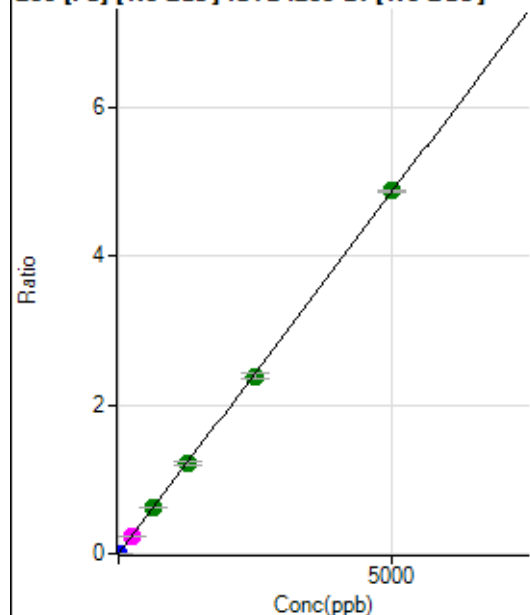
$$DL = 0.003799$$

$$BEC = 0.01518$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	416.68	0.0001	P	5.2
2	☐	1.000	0.804	6388.66	0.0008	P	5.2
3	☐	250.000	241.821	1792716.68	0.2353	M	5.7
4	☐	625.000	639.984	4601727.25	0.6227	A	2.0
5	☐	1250.000	1252.560	9150816.99	1.2188	A	3.3
6	☐	2500.000	2457.039	17679816.83	2.3907	A	3.5
7	☐	5000.000	5019.376	35358565.14	4.8838	A	0.6
8	☐			6547.98	0.0010	P	3.9

$$y = 9.7298\text{E-}004 * x + 5.5891\text{E-}005$$

$$R = 0.9999$$

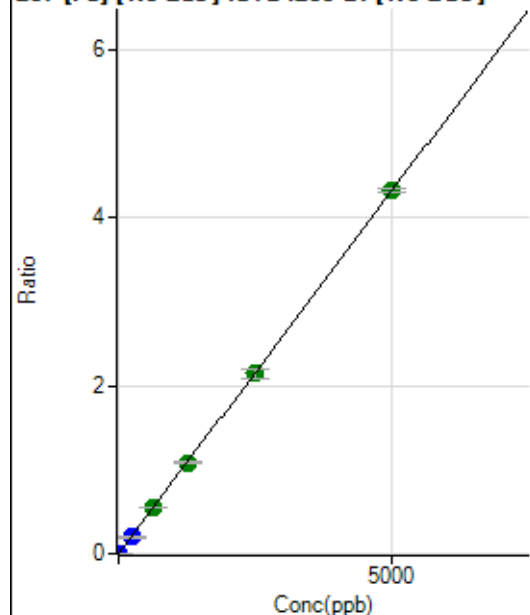
$$DL = 0.008929$$

$$BEC = 0.05744$$

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	322.23	0.0000	P	4.8
2	☐	1.000	0.750	5258.52	0.0007	P	4.1
3	☐	250.000	225.709	1482833.76	0.1947	P	2.8
4	☐	625.000	635.384	4049518.09	0.5479	A	1.2
5	☐	1250.000	1256.129	8132419.10	1.0832	A	3.3
6	☐	2500.000	2483.840	15836739.71	2.1418	A	4.7
7	☐	5000.000	5006.464	31252758.11	4.3169	A	0.9
8	☐			5577.17	0.0009	P	6.9

$$y = 8.6226\text{E-}004 * x + 4.3220\text{E-}005$$

$$R = 1.0000$$

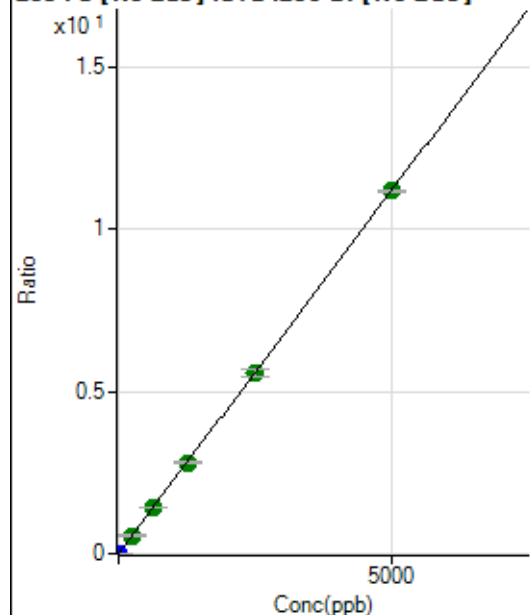
$$DL = 0.007268$$

$$BEC = 0.05012$$

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	825.78	0.0001	P	6.3
2	☐	1.000	0.781	14167.43	0.0019	P	5.1
3	☐	250.000	249.554	4252851.46	0.5583	A	2.0
4	☐	625.000	638.477	10554082.85	1.4283	A	1.8
5	☐	1250.000	1255.515	21087665.48	2.8084	A	2.5
6	☐	2500.000	2501.294	41372513.91	5.5950	A	4.1
7	☐	5000.000	4996.312	80909979.36	11.1759	A	0.8
8	☐			14710.18	0.0023	P	4.6

$$y = 0.0022 * x + 1.1077E-004$$

$$R = 1.0000$$

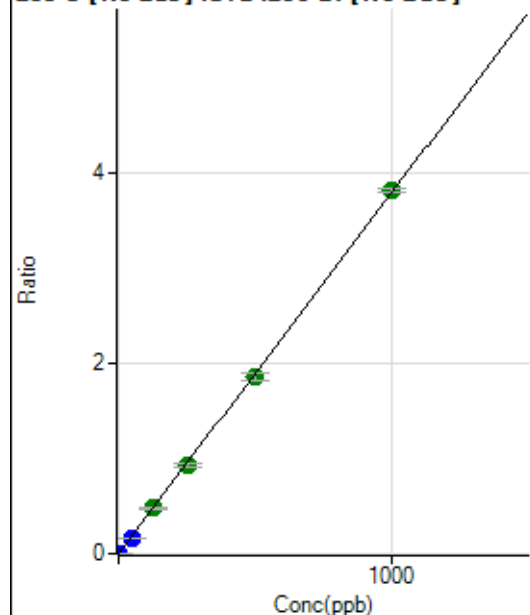
$$DL = 0.00936$$

$$BEC = 0.04952$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	132.
2	☐	1.000	0.724	20956.30	0.0027	P	3.1
3	☐	50.000	42.970	1242023.05	0.1631	P	2.5
4	☐	125.000	125.450	3517483.48	0.4760	A	2.2
5	☐	250.000	245.380	6991515.83	0.9311	A	2.6
6	☐	500.000	491.326	13787042.76	1.8644	A	3.8
7	☐	1000.000	1005.787	27632148.71	3.8166	A	1.0
8	☐			1866.86	0.0003	P	26.0

$$y = 0.0038 * x + 2.2270E-006$$

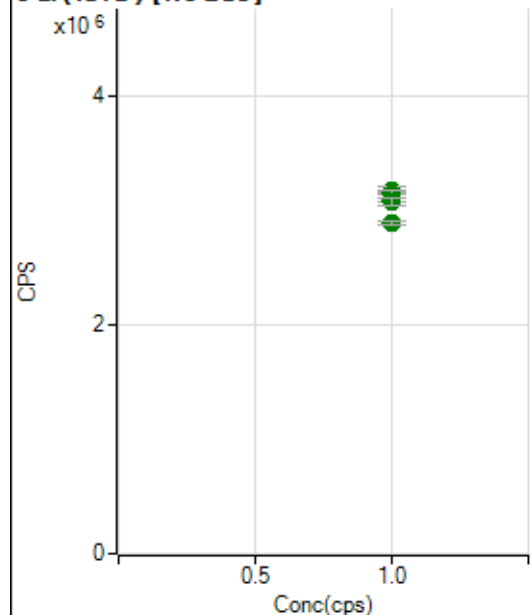
$$R = 0.9999$$

$$DL = 0.002335$$

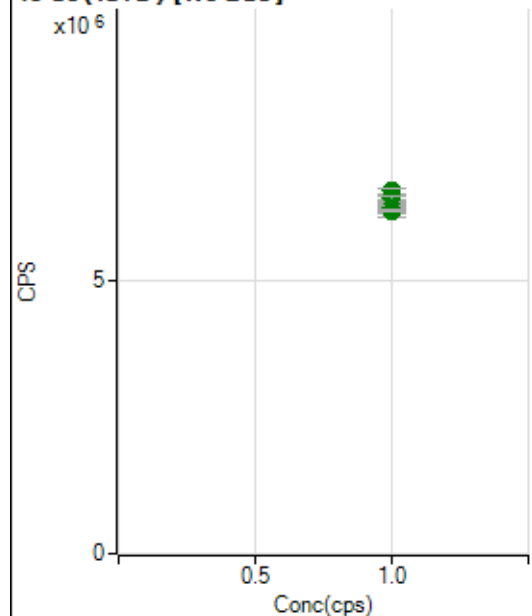
$$BEC = 0.0005869$$

Weight: <None>

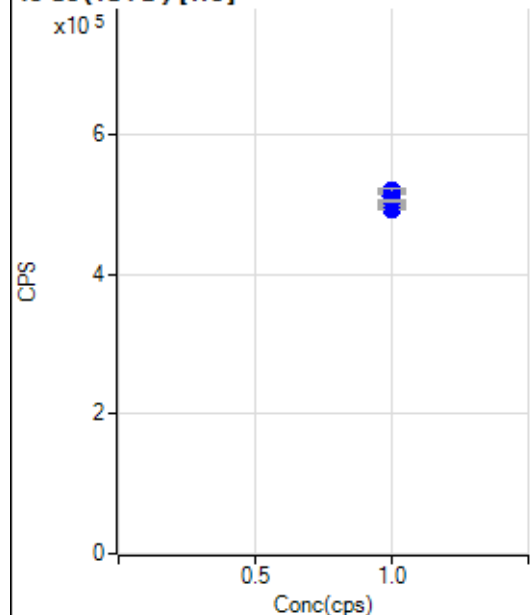
Min Conc: 0

6 Li (ISTD) [No Gas]

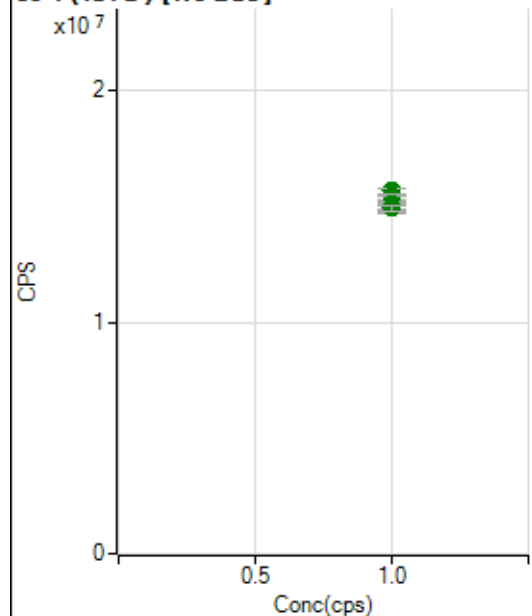
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3092374.61		A	1.0
2	☐	1.000		3175758.15		A	0.6
3	☐	1.000		3144526.76		A	0.2
4	☐	1.000		3093388.88		A	3.2
5	☐	1.000		3161629.89		A	2.9
6	☐	1.000		3147823.15		A	2.4
7	☐	1.000		3078307.14		A	2.4
8	☐	1.000		2888662.22		A	1.1

45 Sc (ISTD) [No Gas]

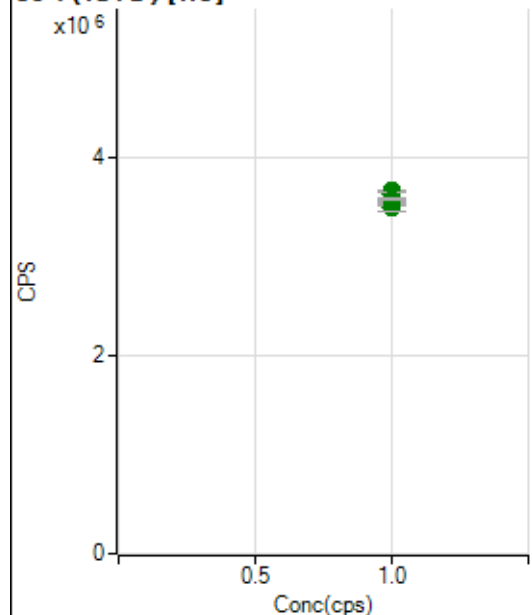
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6426876.43		A	1.1
2	☐	1.000		6634601.29		A	1.3
3	☐	1.000		6500403.10		A	1.5
4	☐	1.000		6270830.39		A	3.6
5	☐	1.000		6296583.52		A	1.3
6	☐	1.000		6274665.67		A	1.9
7	☐	1.000		6312452.06		A	1.8
8	☐	1.000		6264178.45		A	0.6

45 Sc (ISTD) [He]

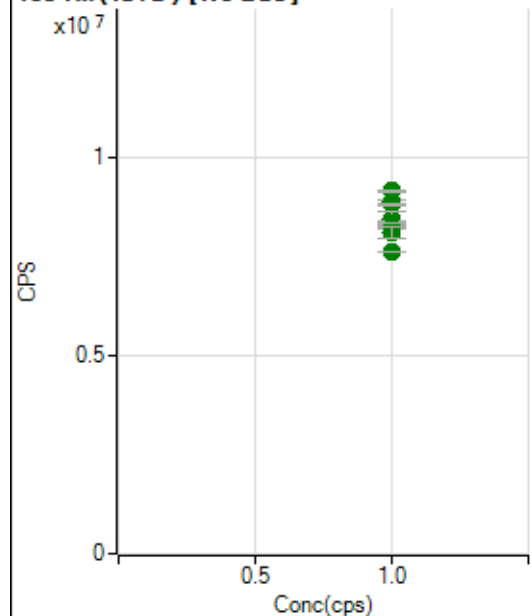
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		514640.76		P	0.5
2	☐	1.000		518769.62		P	0.5
3	☐	1.000		514996.55		P	0.3
4	☐	1.000		504775.73		P	0.5
5	☐	1.000		493231.34		P	0.7
6	☐	1.000		510760.11		P	4.2
7	☐	1.000		499264.53		P	1.0
8	☐	1.000		504987.55		P	0.3

89 Y (ISTD) [No Gas]

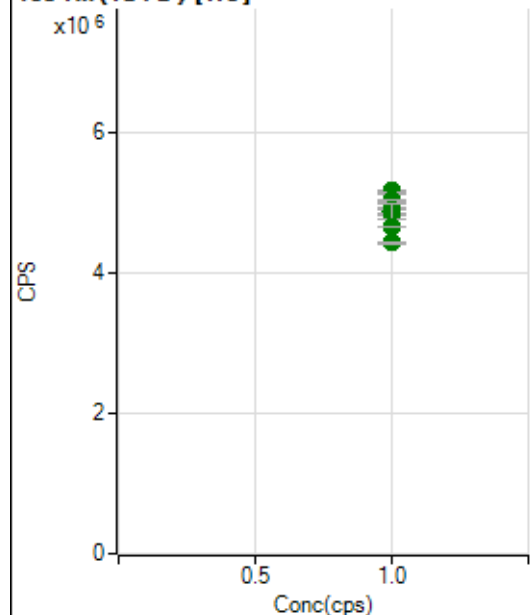
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15226719.77		A	0.9
2	☐	1.000		15659847.55		A	1.3
3	☐	1.000		15475303.38		A	0.5
4	☐	1.000		14971675.06		A	3.3
5	☐	1.000		15131081.58		A	1.2
6	☐	1.000		15061629.78		A	0.9
7	☐	1.000		15018956.30		A	2.3
8	☐	1.000		14910890.33		A	1.5

89 Y(ISTD) [He]

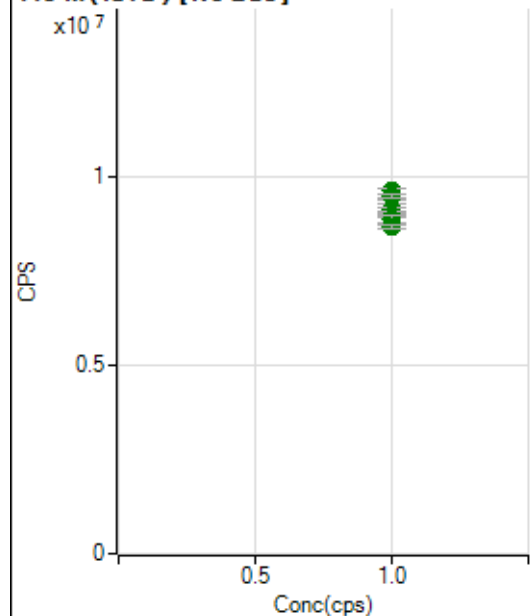
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3654522.51		A	0.6
2	☐	1.000		3656783.07		A	0.5
3	☐	1.000		3623266.09		A	1.6
4	☐	1.000		3550705.92		A	0.7
5	☐	1.000		3481031.20		A	1.3
6	☐	1.000		3593232.41		A	3.2
7	☐	1.000		3540560.74		A	0.7
8	☐	1.000		3571893.11		A	0.3

103 Rh(ISTD) [No Gas]

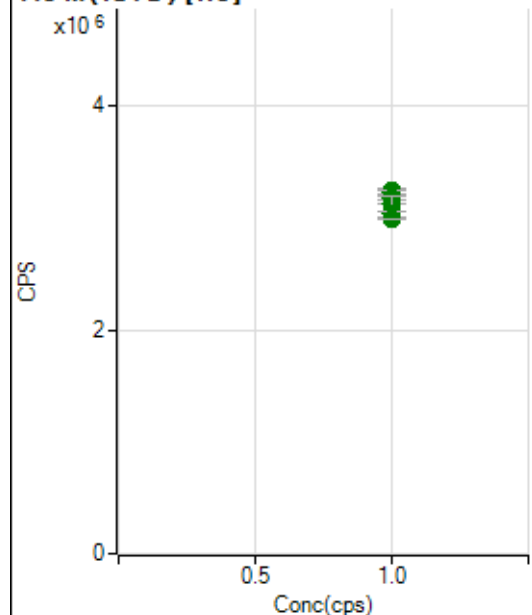
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8855891.33		A	1.3
2	☐	1.000		9152220.49		A	0.7
3	☐	1.000		8817450.08		A	0.4
4	☐	1.000		8459625.78		A	3.8
5	☐	1.000		8362221.68		A	0.6
6	☐	1.000		8250746.68		A	1.7
7	☐	1.000		8102930.09		A	3.3
8	☐	1.000		7608816.00		A	0.2

103 Rh (ISTD) [He]

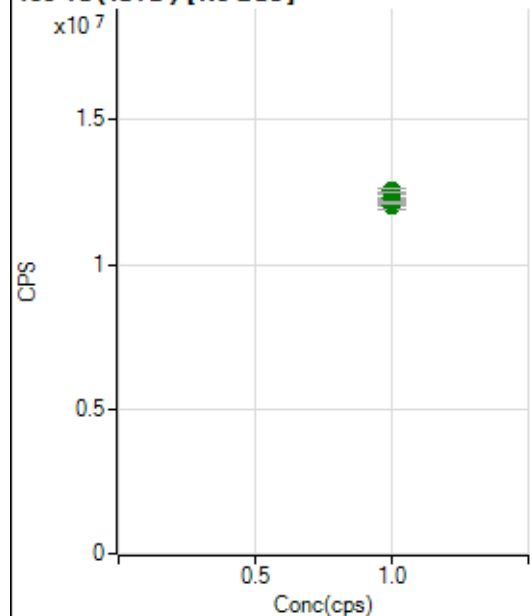
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5169458.67		A	0.5
2	☐	1.000		5145609.19		A	0.4
3	☐	1.000		5036748.33		A	0.6
4	☐	1.000		4915898.40		A	0.7
5	☐	1.000		4837396.18		A	1.0
6	☐	1.000		4870240.45		A	4.4
7	☐	1.000		4656378.61		A	0.1
8	☐	1.000		4428293.62		A	0.6

115 In (ISTD) [No Gas]

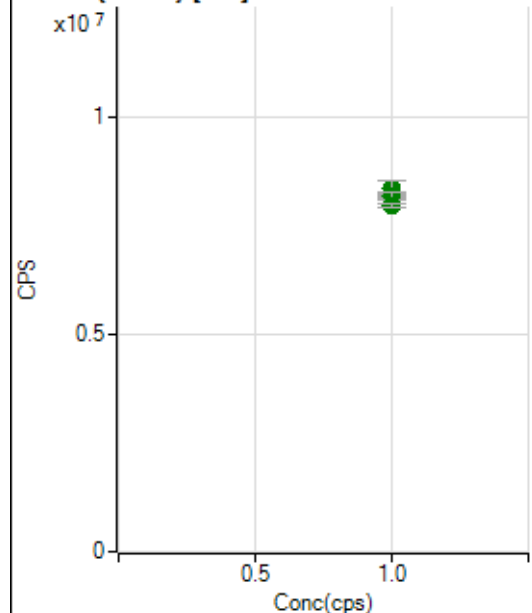
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9503609.97		A	1.6
2	☐	1.000		9647353.40		A	1.4
3	☐	1.000		9521689.54		A	1.1
4	☐	1.000		9175705.78		A	2.7
5	☐	1.000		9132619.75		A	1.0
6	☐	1.000		9014911.54		A	1.6
7	☐	1.000		8904742.69		A	2.6
8	☐	1.000		8680740.60		A	0.9

115 In (ISTD) [He]

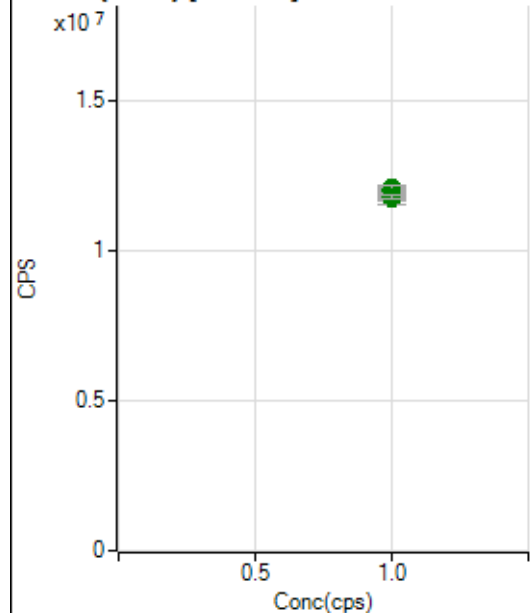
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3244810.90		A	1.9
2	☐	1.000		3245583.33		A	1.4
3	☐	1.000		3235583.65		A	0.8
4	☐	1.000		3185229.77		A	1.2
5	☐	1.000		3126454.68		A	0.1
6	☐	1.000		3125240.53		A	4.5
7	☐	1.000		3037437.59		A	1.5
8	☐	1.000		2995561.28		A	0.3

159 Tb (ISTD) [No Gas]

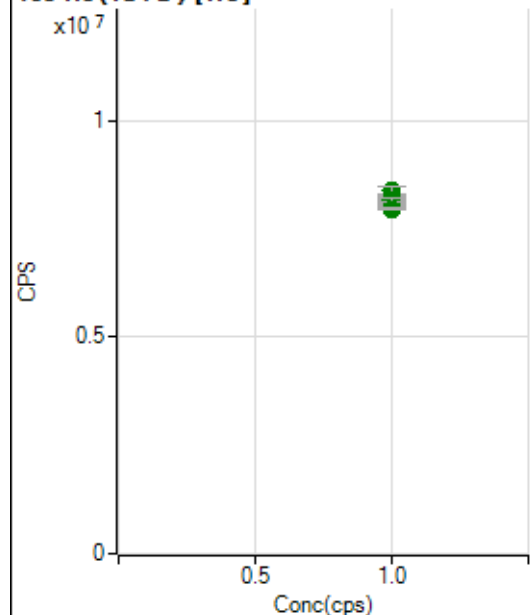
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12117962.04		A	1.9
2	☐	1.000		12537471.62		A	1.1
3	☐	1.000		12276771.76		A	0.5
4	☐	1.000		12038090.79		A	2.8
5	☐	1.000		12312679.68		A	1.4
6	☐	1.000		12193652.04		A	1.4
7	☐	1.000		12307340.51		A	2.6
8	☐	1.000		12141345.51		A	0.5

159 Tb (ISTD) [He]

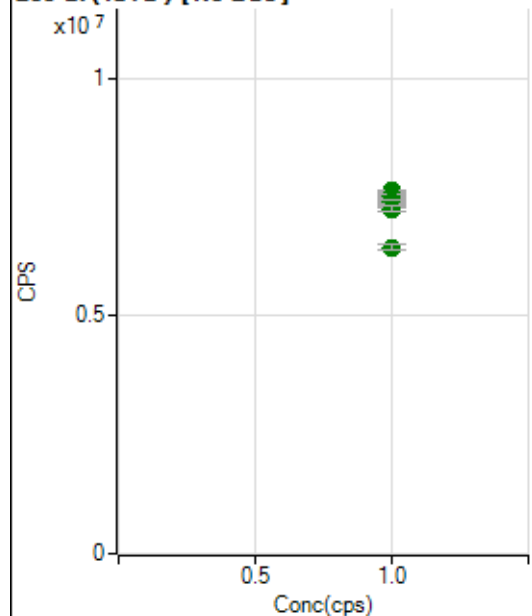
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8215106.34		A	1.1
2	☐	1.000		8263125.43		A	0.3
3	☐	1.000		8198219.60		A	1.3
4	☐	1.000		8216026.41		A	0.1
5	☐	1.000		8145975.64		A	0.5
6	☐	1.000		8337275.85		A	4.4
7	☐	1.000		8180087.24		A	2.0
8	☐	1.000		7965835.50		A	1.2

165 Ho (ISTD) [No Gas]

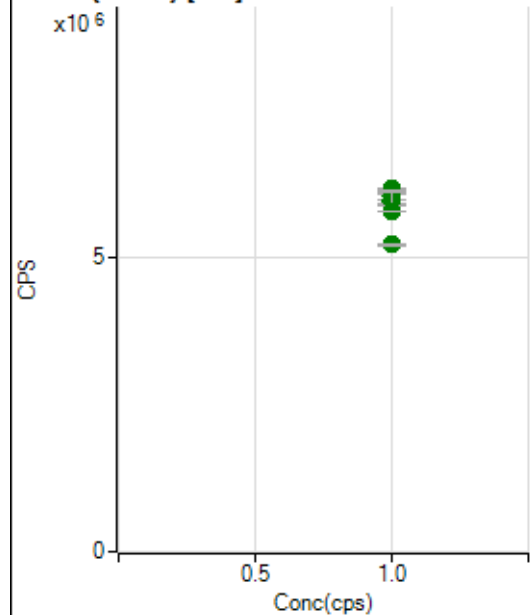
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11723884.55		A	1.0
2	☐	1.000		12082065.79		A	1.2
3	☐	1.000		11935725.52		A	0.7
4	☐	1.000		11714778.99		A	3.3
5	☐	1.000		12014830.24		A	0.8
6	☐	1.000		12002916.35		A	1.6
7	☐	1.000		12031618.57		A	2.3
8	☐	1.000		11769679.96		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8084421.06		A	1.0
2	☐	1.000		8143700.71		A	0.6
3	☐	1.000		8128367.72		A	0.8
4	☐	1.000		8202980.37		A	1.8
5	☐	1.000		8100631.06		A	0.3
6	☐	1.000		8369038.07		A	3.0
7	☐	1.000		8166061.68		A	0.7
8	☐	1.000		7962036.69		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7456786.90		A	1.4
2	☐	1.000		7626182.73		A	0.3
3	☐	1.000		7617108.57		A	0.5
4	☐	1.000		7392637.32		A	3.6
5	☐	1.000		7509690.86		A	1.3
6	☐	1.000		7397632.25		A	1.5
7	☐	1.000		7240348.99		A	1.7
8	☐	1.000		6438913.58		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6107787.69		A	1.0
2	☐	1.000		6178472.27		A	0.5
3	☐	1.000		6130368.73		A	1.4
4	☐	1.000		6064498.66		A	2.7
5	☐	1.000		5960965.95		A	1.2
6	☐	1.000		6005808.94		A	4.1
7	☐	1.000		5800103.18		A	0.2
8	☐	1.000		5231651.10		A	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7113022MS3.b
Acq. Date-Time 2022-11-30 14:36:11
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		10331	103314.58			0.349	5.000
24		285395	2853949.60			0.483	5.000
25		38722	387220.51			0.320	5.000
26		44133	441331.30			0.209	5.000
59		75185	751852.01			0.347	5.000
113		8395	83952.22			0.382	5.000
115		108744	1087438.97			0.283	5.000
206		25432	254320.60			0.330	5.000
207		23776	237755.40			0.435	5.000
208		54884	548842.31			0.496	5.000
220		0	2.50			44.721	

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

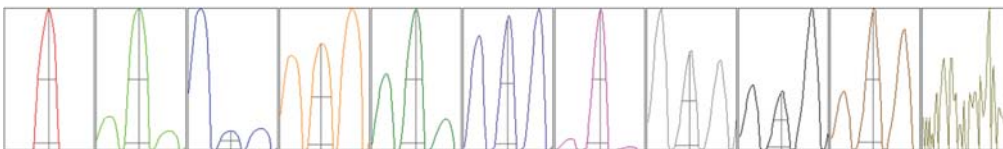
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10297	10294	10365	10370	10332
24	283302	285312	286439	286825	285096
25	38530	38791	38674	38770	38845
26	44060	44012	44203	44223	44167
59	74738	75360	75359	75292	75177
113	8414	8341	8422	8404	8395
115	108771	108375	108657	109225	108691
206	25414	25316	25473	25414	25543
207	23614	23742	23805	23877	23840
208	54677	54689	55201	55162	54691

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	18028.38	9.00	8.90 - 9.10	
24	464471.59	23.95	23.90 - 24.10	
25	61631.36	24.95	24.90 - 25.10	
26	69660.71	25.90	25.90 - 26.10	
59	142383.37	59.00	58.90 - 59.10	
113	18558.08	113.00	112.90 - 113.10	
115	242276.27	115.05	114.90 - 115.10	
206	53450.62	205.95	205.90 - 206.10	
207	48778.75	206.95	206.90 - 207.10	
208	117265.38	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.826	0.900	
24	0.66	0.829	0.900	
25	0.66	0.828	0.900	
26	0.67	0.833	0.900	
59	0.55	0.801	0.900	
113	0.45	0.723	0.900	
115	0.45	0.718	0.900	
206	0.48	0.783	0.900	
207	0.48	0.770	0.900	
208	0.47	0.800	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	15.4 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		25218	252177.67			0.496	
89		83389	833885.82			0.585	
205		26529	265289.77			0.907	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25349	25199	25016	25254	25271
89	83603	82849	82950	83513	84027
205	26745	26219	26373	26784	26524

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.8 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
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