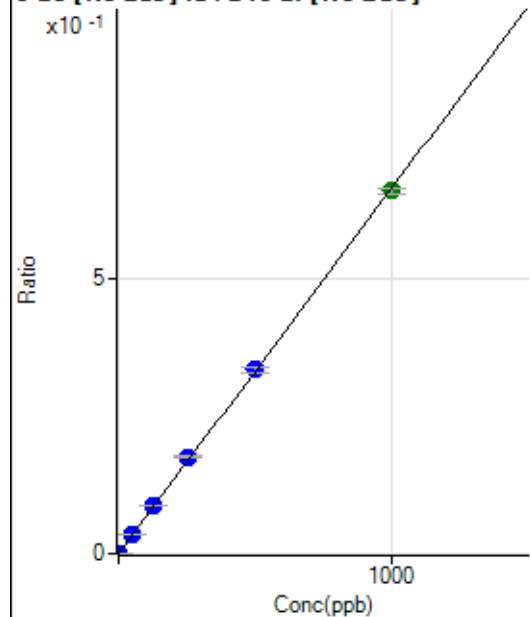


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7091523 MS.b\
Analysis File: P7091523 MS.batch.bin
DA Date-Time: 2023-09-18 12:39:24
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-09-15 12:12:34
2	005CALS.d	S02	2023-09-15 12:15:51
3	006CALS.d	S03	2023-09-15 12:19:09
4	007CALS.d	S04	2023-09-15 12:22:09
5	008CALS.d	S05	2023-09-15 12:25:03
6	009CALS.d	S06	2023-09-15 12:27:49
7	010CALS.d	S07	2023-09-15 12:30:37
8	011CALS.d	S08	2023-09-15 12:33:22

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	29.0
2	☐	1.000	1.147	2446.88	0.0008	P	1.6
3	☐	50.000	53.372	110120.73	0.0356	P	0.9
4	☐	125.000	131.431	269162.61	0.0876	P	1.1
5	☐	250.000	265.117	532367.50	0.1766	P	1.7
6	☐	500.000	503.125	1024757.72	0.3352	P	3.9
7	☐	1000.000	993.685	1935232.52	0.6619	A	1.7
8	☐			804.47	0.0003	P	21.6

$$y = 6.6613\text{E-}004 * x + 2.8386\text{E-}005$$

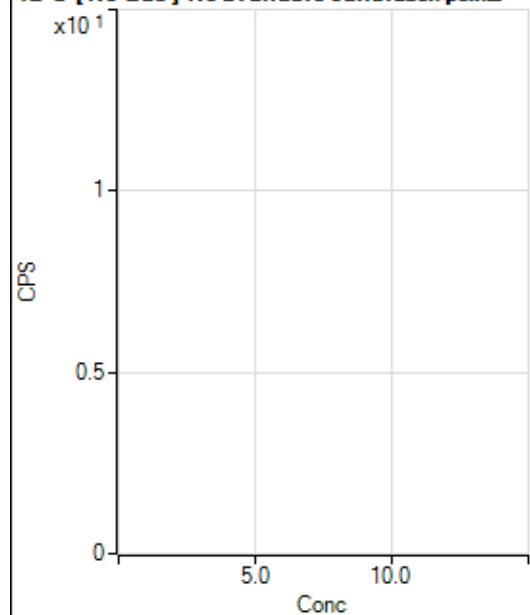
$$R = 0.9999$$

$$DL = 0.03706$$

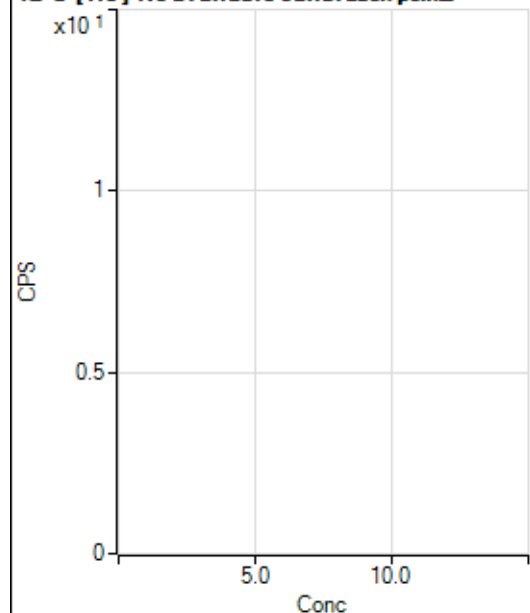
$$BEC = 0.04261$$

Weight: <None>

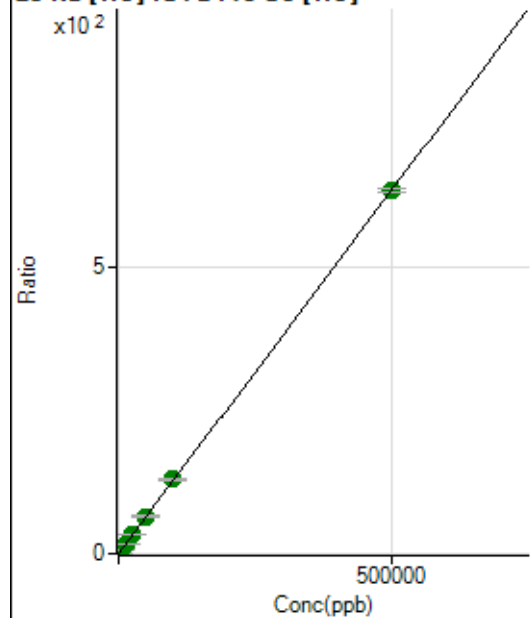
Min Conc: 0

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	18250.89	0.0317	P	1.4
2	☐	500.000	500.582	390599.48	0.6648	P	0.5
3	☐	5000.000	5165.794	3742369.04	6.5658	A	0.8
4	☐	12500.000	12900.550	9183128.61	16.3493	A	0.4
5	☐	25000.000	25819.526	17960323.76	32.6902	A	0.2
6	☐	50000.000	51394.323	35534425.03	65.0392	A	1.1
7	☐	100000.00	101992.16	70843867.28	129.0392	A	1.4
8	☐	500000.00	499409.48	326243064.0	631.7234	A	1.0

$$y = 0.0013 * x + 0.0317$$

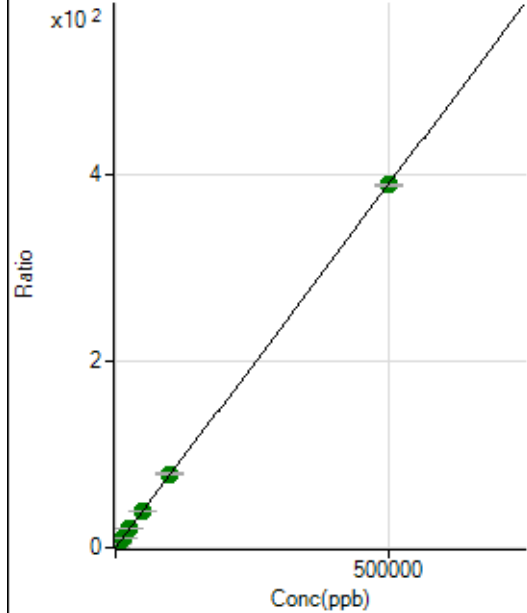
$$R = 1.0000$$

$$DL = 1.059$$

$$BEC = 25.04$$

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	676.69	0.0012	P	7.7
2	☐	500.000	499.550	229032.91	0.3898	P	0.8
3	☐	5000.000	5183.947	2299605.28	4.0345	A	1.1
4	☐	12500.000	12859.681	5620609.64	10.0066	A	1.1
5	☐	25000.000	25939.563	11088819.56	20.1834	A	0.5
6	☐	50000.000	51094.071	21720353.29	39.7548	A	0.7
7	☐	100000.00	101767.56	43471122.69	79.1812	A	1.3
8	☐	500000.00	499479.27	200704581.4	388.6200	A	0.3

$$y = 7.7805\text{E-}004 * x + 0.0012$$

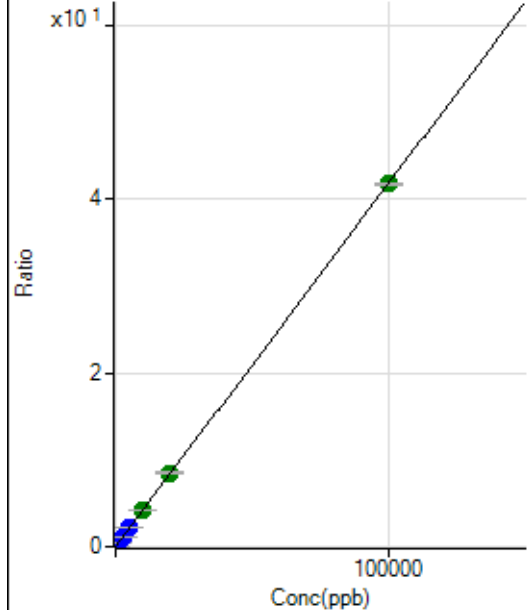
$$R = 1.0000$$

$$DL = 0.3475$$

$$BEC = 1.51$$

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	426.68	0.0007	P	6.0
2	☐	20.000	24.092	6343.58	0.0108	P	1.0
3	☐	1000.000	1072.400	255583.79	0.4484	P	0.9
4	☐	2500.000	2666.047	625525.26	1.1137	P	0.4
5	☐	5000.000	5290.199	1213691.44	2.2091	P	0.4
6	☐	10000.000	10239.505	2335745.71	4.2751	A	1.0
7	☐	20000.000	20329.320	4659398.58	8.4871	A	1.5
8	☐	100000.00	99890.800	21536426.62	41.6994	A	0.2

$$y = 4.1744\text{E-}004 * x + 7.4057\text{E-}004$$

$$R = 1.0000$$

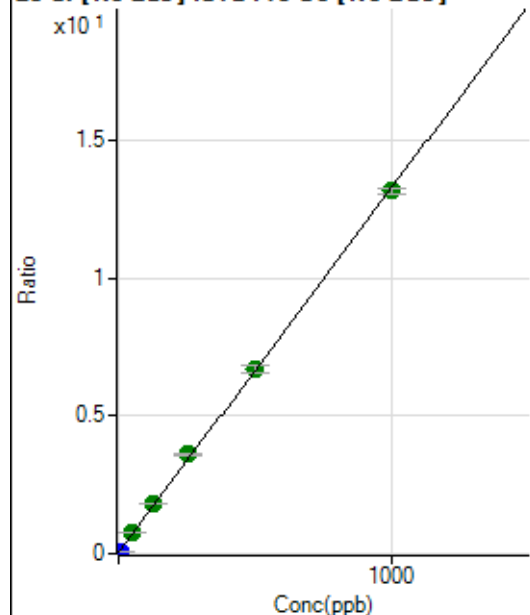
$$DL = 0.3216$$

$$BEC = 1.774$$

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	329588.20	0.0456	P	0.8
2	☐	10.000	0.868	410786.91	0.0571	P	0.2
3	☐	50.000	53.305	5441651.31	0.7507	A	2.1
4	☐	125.000	134.082	12840742.17	1.8192	A	1.1
5	☐	250.000	269.553	24484133.80	3.6111	A	1.6
6	☐	500.000	503.789	47359564.30	6.7095	A	4.3
7	☐	1000.000	992.008	90382039.76	13.1674	A	1.8
8	☐			745499.70	0.1127	P	6.8

$$y = 0.0132 * x + 0.0456$$

$$R = 0.9996$$

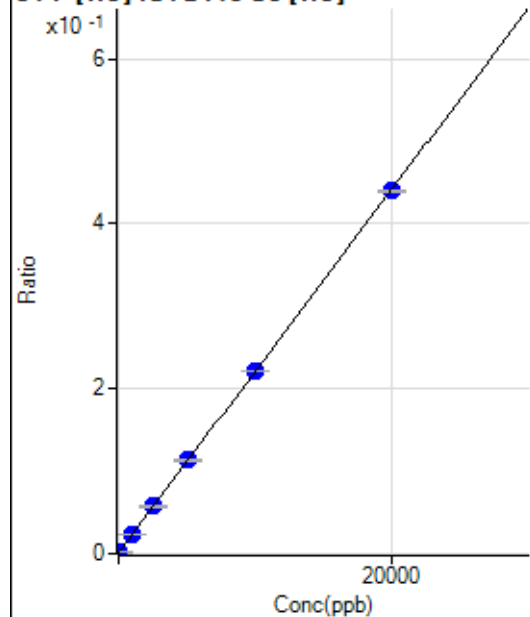
$$DL = 0.08685$$

$$BEC = 3.448$$

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	-8.757	462.23	0.0008	P	10.3
2	☐	0.000	8.757	697.80	0.0012	P	3.6
3	☐	1000.000	1033.180	13531.63	0.0237	P	2.3
4	☐	2500.000	2566.965	32300.74	0.0575	P	1.3
5	☐	5000.000	5106.842	62316.15	0.1134	P	1.0
6	☐	10000.000	10051.346	121445.82	0.2223	P	0.2
7	☐	20000.000	19937.587	241525.69	0.4399	P	0.5
8	☐			561.13	0.0011	P	2.5

$$y = 2.2015E-005 * x + 9.9495E-004$$

$$R = 1.0000$$

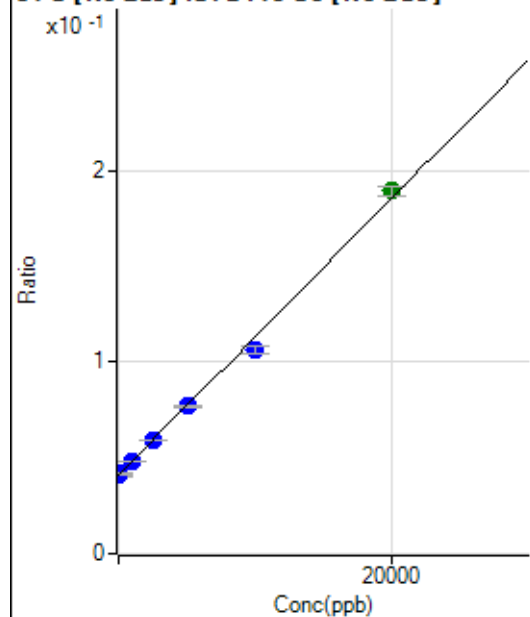
$$DL = 8.558$$

$$BEC = 45.19$$

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	-68.306	294597.11	0.0408	P	1.9
2	☐	0.000	68.306	300418.83	0.0418	P	0.5
3	☐	1000.000	914.056	346935.86	0.0479	P	0.6
4	☐	2500.000	2468.015	416944.55	0.0591	P	0.6
5	☐	5000.000	4937.022	521327.56	0.0769	P	1.1
6	☐	10000.000	8989.214	749246.63	0.1061	P	3.6
7	☐	20000.000	20529.433	1300054.98	0.1894	A	2.4
8	☐			252586.65	0.0382	P	1.4

$$y = 7.2162\text{E-}006 * x + 0.0413$$

$$R = 0.9981$$

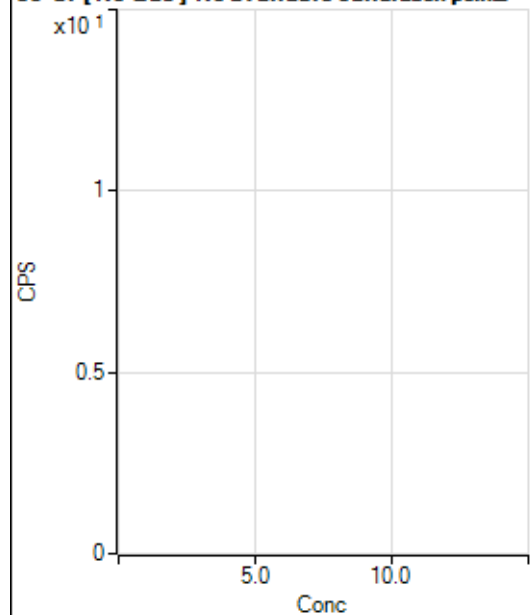
$$DL = 202.1$$

$$BEC = 5718$$

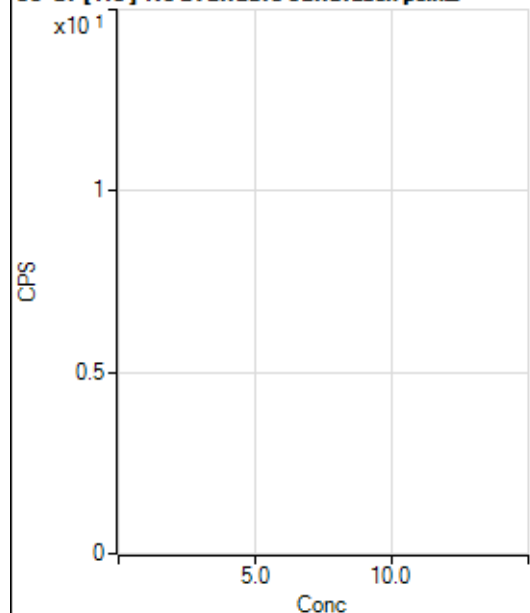
Weight: <None>

Min Conc: 0

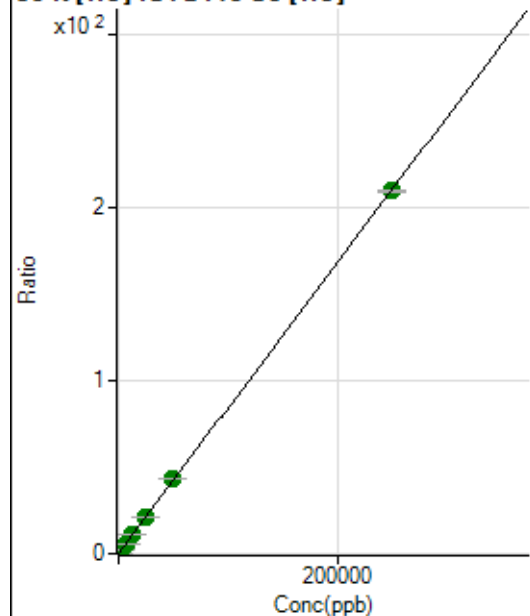
35 Cl [No Gas] No available calibration points



	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	69548.92	0.1207	P	0.6
2	☐	500.000	503.360	318940.89	0.5429	P	0.6
3	☐	2500.000	2620.162	1321358.19	2.3183	A	1.9
4	☐	6250.000	6402.968	3084136.52	5.4909	A	0.8
5	☐	12500.000	12734.994	5934491.44	10.8016	A	0.4
6	☐	25000.000	25355.219	11685351.35	21.3863	A	0.5
7	☐	50000.000	51282.934	23680568.54	43.1321	A	0.3
8	☐	250000.00	249691.10	108216351.7	209.5386	A	0.5

$$y = 8.3871E-004 * x + 0.1207$$

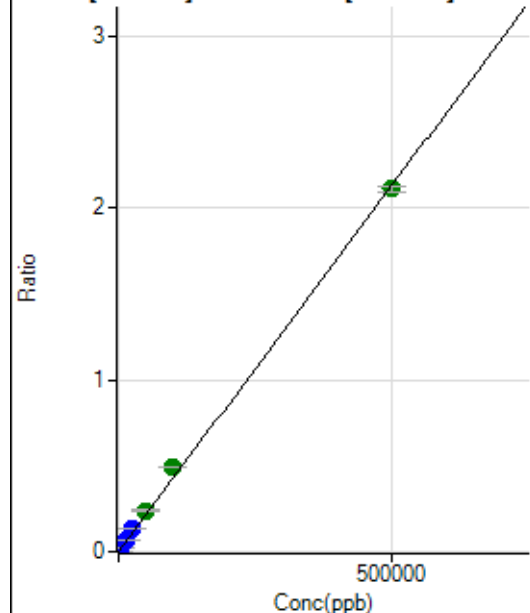
$$R = 1.0000$$

$$DL = 2.614$$

$$BEC = 143.9$$

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	1005.60	0.0001	P	1.6
2	☐	500.000	500.521	16340.00	0.0023	P	3.2
3	☐	5000.000	5917.851	183736.02	0.0253	P	1.2
4	☐	12500.000	14969.720	451047.52	0.0639	P	0.8
5	☐	25000.000	30687.569	887144.94	0.1308	P	2.1
6	☐	50000.000	56325.058	1694549.78	0.2400	A	4.1
7	☐	100000.00	115234.15	3370336.03	0.4910	A	1.1
8	☐	500000.00	495965.36	13985088.96	2.1126	A	1.6

$$y = 4.2594\text{E-}006 * x + 1.3915\text{E-}004$$

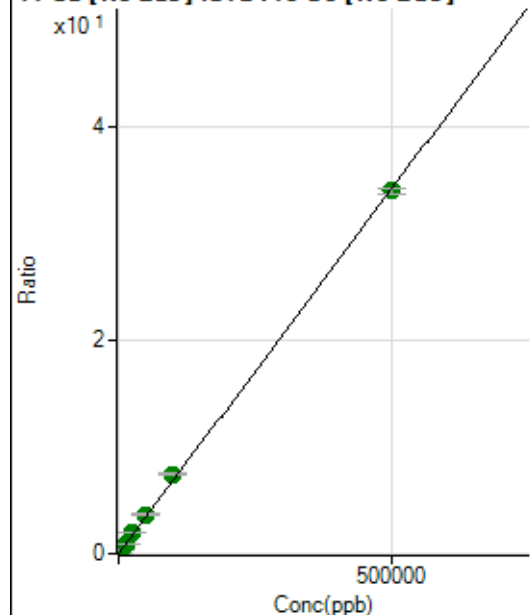
$$R = 0.9995$$

$$DL = 1.599$$

$$BEC = 32.67$$

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	25623.95	0.0035	P	1.5
2	☐	500.000	507.848	274986.50	0.0382	P	0.1
3	☐	5000.000	5491.135	2743353.19	0.3785	A	1.8
4	☐	12500.000	13746.247	6649637.12	0.9421	A	0.6
5	☐	25000.000	28288.817	13119144.94	1.9350	A	1.8
6	☐	50000.000	53335.762	25732387.12	3.6450	A	3.8
7	☐	100000.00	109400.65	51298013.12	7.4728	A	0.5
8	☐	500000.00	497585.77	224911107.7	33.9761	A	1.6

$$y = 6.8275\text{E-}005 * x + 0.0035$$

$$R = 0.9998$$

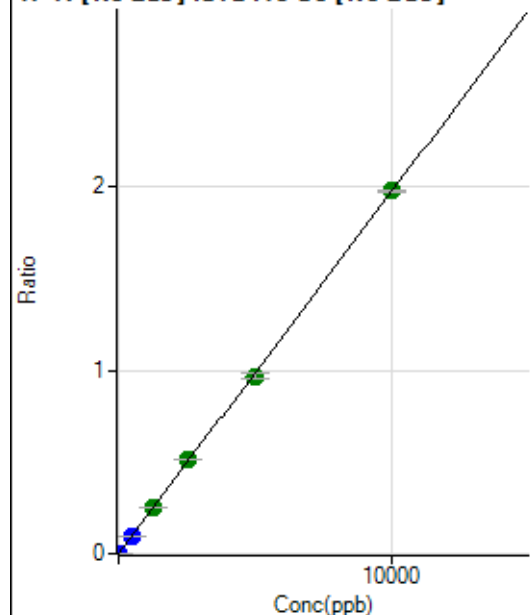
$$DL = 2.285$$

$$BEC = 51.93$$

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	131.12	0.0000	P	22.7
2	☐	5.000	5.067	7325.18	0.0010	P	0.2
3	☐	500.000	496.863	710910.35	0.0981	P	1.6
4	☐	1250.000	1270.466	1769818.31	0.2507	A	1.3
5	☐	2500.000	2598.703	3477242.80	0.5129	A	1.6
6	☐	5000.000	4900.583	6827724.41	0.9671	A	3.6
7	☐	10000.000	10022.632	13577798.55	1.9779	A	0.8
8	☐			2999.56	0.0005	P	21.5

$$y = 1.9734\text{E-}004 * x + 1.8131\text{E-}005$$

$$R = 0.9999$$

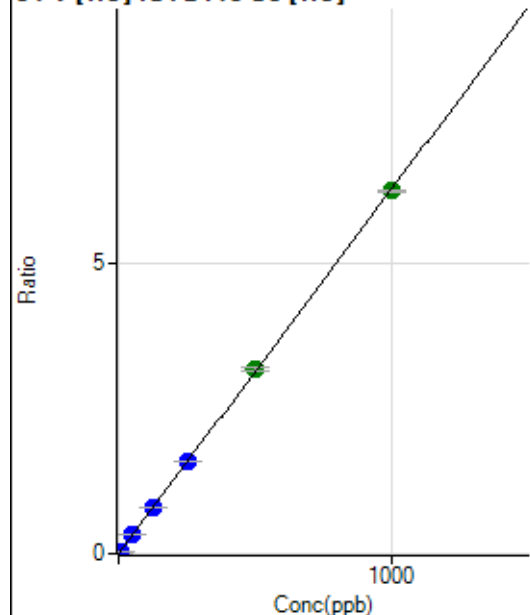
$$DL = 0.06258$$

$$BEC = 0.09188$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.45	0.0000	P	86.6
2	☐	5.000	4.823	17780.58	0.0303	P	0.9
3	☐	50.000	50.478	180489.68	0.3167	P	0.7
4	☐	125.000	126.929	447232.08	0.7962	P	0.6
5	☐	250.000	254.551	877283.83	1.5968	P	0.8
6	☐	500.000	505.968	1734066.83	3.1740	A	1.3
7	☐	1000.000	995.614	3429002.62	6.2455	A	0.4
8	☐			1306.74	0.0025	P	2.5

$$y = 0.0063 * x + 7.7011\text{E-}006$$

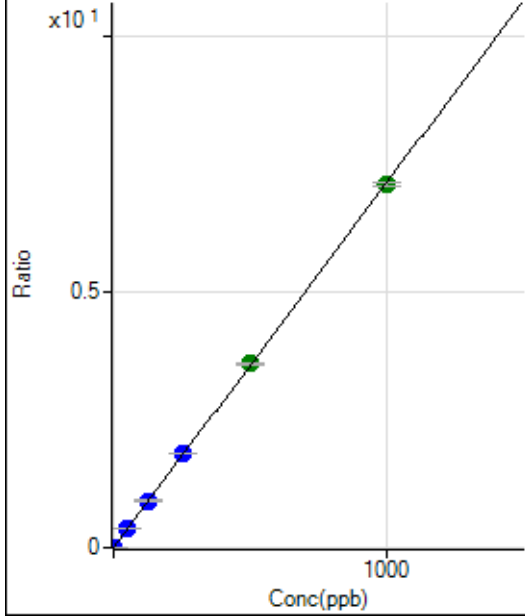
$$R = 1.0000$$

$$DL = 0.00319$$

$$BEC = 0.001228$$

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	1400.08	0.0024	P	1.0
2	☐	2.000	2.107	10257.99	0.0175	P	1.1
3	☐	50.000	51.943	212569.78	0.3729	P	1.1
4	☐	125.000	128.834	517540.59	0.9214	P	0.7
5	☐	250.000	258.576	1014668.44	1.8469	P	0.6
6	☐	500.000	504.676	1968236.03	3.6023	A	1.2
7	☐	1000.000	994.941	3897762.06	7.0994	A	1.1
8	☐			14260.18	0.0276	P	2.6

$$y = 0.0071 * x + 0.0024$$

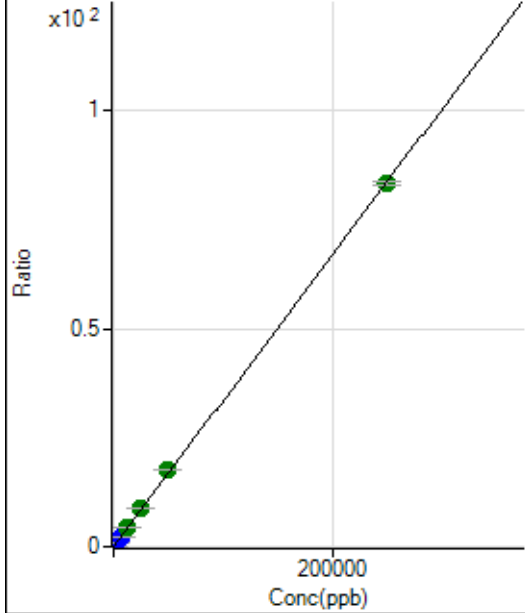
$$R = 0.9999$$

$$DL = 0.01037$$

$$BEC = 0.3407$$

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	2182.40	0.0038	P	3.9
2	☐	50.000	55.387	13092.46	0.0223	P	1.2
3	☐	2500.000	2839.265	542631.72	0.9520	P	0.5
4	☐	6250.000	7083.865	1330957.58	2.3696	P	0.3
5	☐	12500.000	13773.006	2529161.21	4.6035	A	0.9
6	☐	25000.000	26652.856	4865091.98	8.9050	A	1.6
7	☐	50000.000	53086.736	9736132.28	17.7331	A	0.7
8	☐	250000.00	249129.47	42970178.80	83.2053	A	1.0

$$y = 3.3397E-004 * x + 0.0038$$

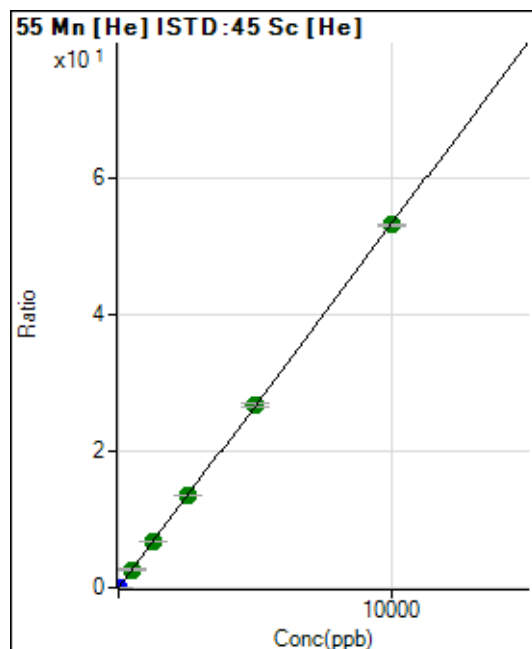
$$R = 0.9999$$

$$DL = 1.343$$

$$BEC = 11.34$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	231.12	0.0004	P	12.0
2	☐	1.000	1.080	3618.25	0.0062	P	1.5
3	☐	500.000	501.695	1524636.90	2.6749	A	0.6
4	☐	1250.000	1276.602	3822731.23	6.8058	A	1.2
5	☐	2500.000	2545.471	7455343.01	13.5700	A	0.7
6	☐	5000.000	5026.201	14639095.61	26.7946	A	1.4
7	☐	10000.000	9972.122	29186955.12	53.1608	A	0.4
8	☐			21033.67	0.0407	P	1.3

$$y = 0.0053 * x + 4.0127E-004$$

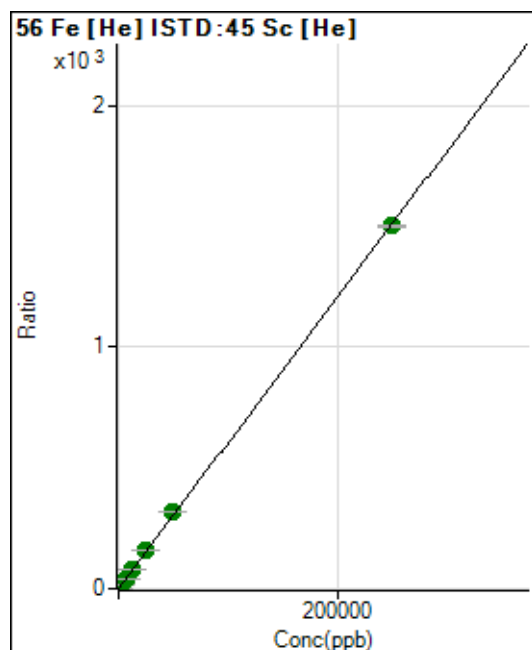
$$R = 1.0000$$

$$DL = 0.02717$$

$$BEC = 0.07527$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17393.50	0.0302	P	0.4
2	☐	50.000	54.237	209873.93	0.3572	P	1.2
3	☐	2500.000	2677.317	9219148.27	16.1744	A	0.8
4	☐	6250.000	6739.784	22844265.22	40.6712	A	0.3
5	☐	12500.000	13488.694	44701839.34	81.3672	A	1.4
6	☐	25000.000	26420.522	87064793.15	159.3463	A	0.4
7	☐	50000.000	52779.086	174746357.4	318.2888	A	1.1
8	☐	250000.00	249238.67	776204015.1	1,502.942	A	0.2

$$y = 0.0060 * x + 0.0302$$

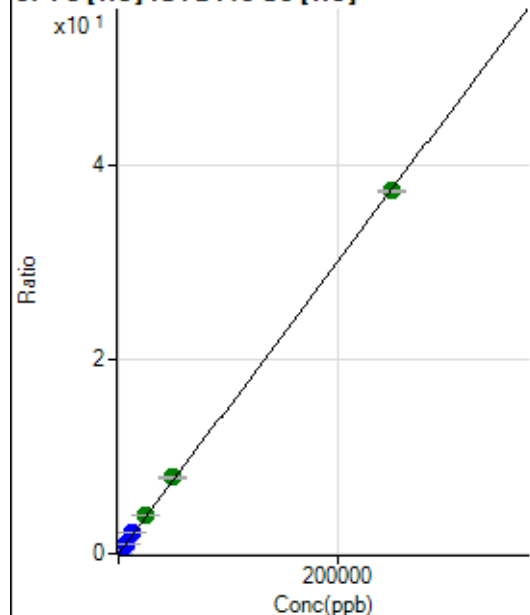
$$R = 0.9999$$

$$DL = 0.05961$$

$$BEC = 5.006$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	870.03	0.0015	P	2.7
2	☐	50.000	54.660	5703.36	0.0097	P	6.6
3	☐	2500.000	2799.659	240171.67	0.4214	P	0.9
4	☐	6250.000	7044.089	594203.01	1.0579	P	0.5
5	☐	12500.000	14084.991	1161313.84	2.1138	P	0.7
6	☐	25000.000	26754.850	2192997.10	4.0139	A	0.8
7	☐	50000.000	52273.530	4304662.64	7.8408	A	1.0
8	☐	250000.00	249267.71	19306466.38	37.3834	A	0.6

$$y = 1.4997\text{E-}004 * x + 0.0015$$

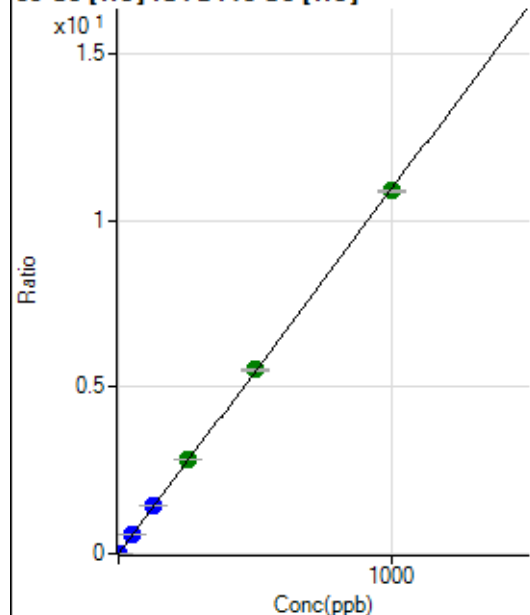
R = 0.9999

DL = 0.8155

BEC = 10.07

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	57.78	0.0001	P	54.6
2	☐	1.000	1.008	6544.82	0.0111	P	2.1
3	☐	50.000	52.173	325795.92	0.5716	P	1.7
4	☐	125.000	129.674	797884.34	1.4205	P	0.5
5	☐	250.000	256.699	1544902.04	2.8119	A	0.5
6	☐	500.000	505.337	3024426.20	5.5355	A	1.3
7	☐	1000.000	994.964	5983610.05	10.8987	A	0.5
8	☐			16207.72	0.0314	P	1.9

$$y = 0.0110 * x + 1.0027\text{E-}004$$

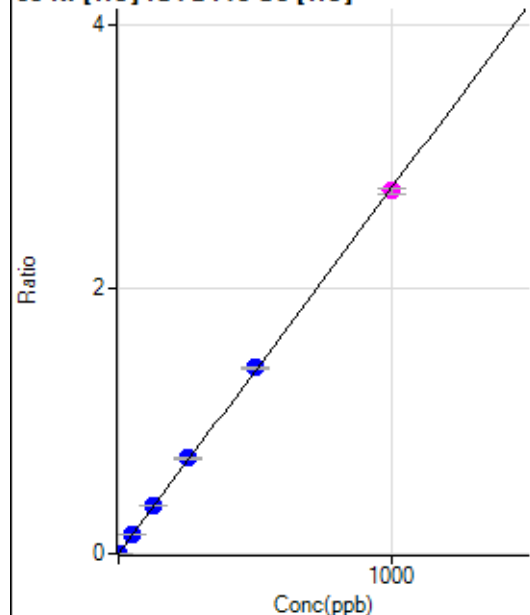
R = 0.9999

DL = 0.01499

BEC = 0.009154

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	532.24	0.0009	P	17.1
2	☐	1.000	1.058	2259.08	0.0038	P	3.6
3	☐	50.000	53.041	83982.08	0.1473	P	1.3
4	☐	125.000	130.159	202331.25	0.3602	P	0.5
5	☐	250.000	260.318	395305.31	0.7195	P	0.6
6	☐	500.000	507.812	766394.06	1.4027	P	0.6
7	☐	1000.000	992.718	1505029.42	2.7413	M	1.4
8	☐			8993.86	0.0174	P	1.6

$$y = 0.0028 * x + 9.2411E-004$$

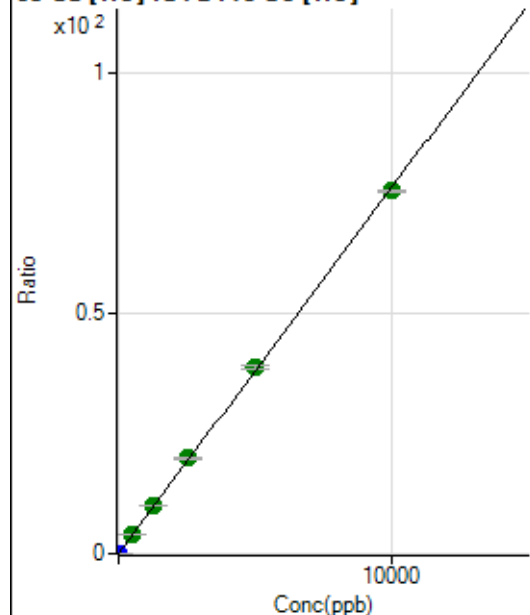
$$R = 0.9999$$

$$DL = 0.1715$$

$$BEC = 0.3348$$

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	1128.94	0.0020	P	3.6
2	☐	2.000	2.055	10351.43	0.0176	P	1.3
3	☐	500.000	535.595	2327991.54	4.0843	A	0.3
4	☐	1250.000	1307.716	5599719.22	9.9695	A	0.1
5	☐	2500.000	2604.929	10909439.15	19.8570	A	1.0
6	☐	5000.000	5098.674	21233281.07	38.8646	A	1.3
7	☐	10000.000	9915.436	41494588.27	75.5784	A	0.8
8	☐			14071.14	0.0272	P	1.5

$$y = 0.0076 * x + 0.0020$$

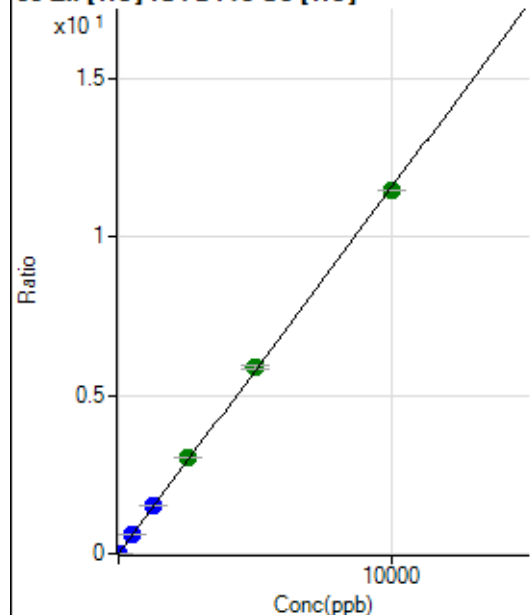
$$R = 0.9999$$

$$DL = 0.02756$$

$$BEC = 0.2571$$

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	547.79	0.0010	P	2.4
2	☐	2.000	2.317	2130.17	0.0036	P	1.7
3	☐	500.000	528.781	348474.59	0.6114	P	0.7
4	☐	1250.000	1325.229	859827.07	1.5308	P	0.2
5	☐	2500.000	2632.311	1670045.61	3.0397	A	0.7
6	☐	5000.000	5097.226	3215398.91	5.8852	A	1.6
7	☐	10000.000	9907.466	6279855.67	11.4382	A	0.1
8	☐			27527.66	0.0533	P	1.1

$$y = 0.0012 * x + 9.5077E-004$$

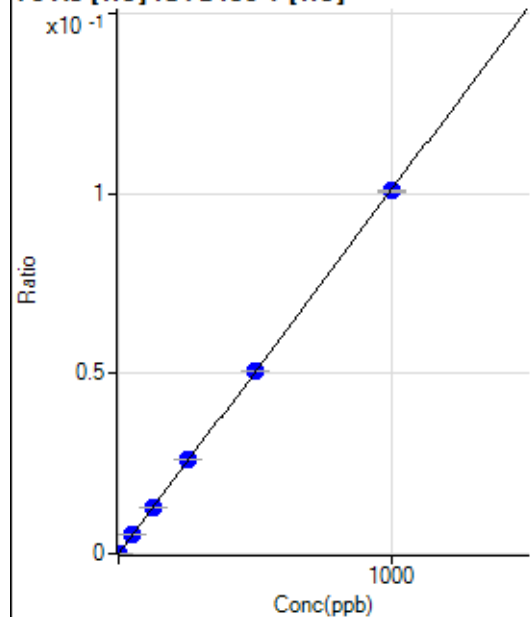
$$R = 0.9998$$

$$DL = 0.05896$$

$$BEC = 0.8236$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.55	0.0000	P	71.0
2	☐	1.000	1.080	496.68	0.0001	P	9.0
3	☐	50.000	51.627	23093.60	0.0052	P	1.3
4	☐	125.000	126.732	56229.31	0.0128	P	1.5
5	☐	250.000	258.014	111847.25	0.0261	P	0.8
6	☐	500.000	501.805	218041.48	0.0507	P	0.9
7	☐	1000.000	996.796	435319.42	0.1007	P	0.6
8	☐			183.33	0.0000	P	14.0

$$y = 1.0105E-004 * x + 1.2496E-006$$

$$R = 1.0000$$

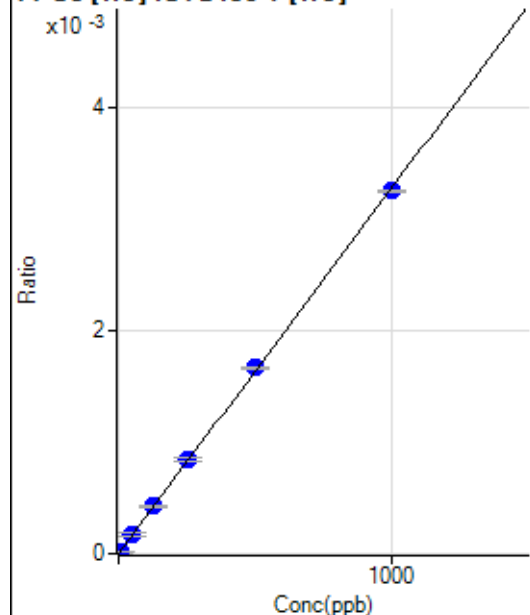
$$DL = 0.02633$$

$$BEC = 0.01237$$

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	2.22	0.0000	P	86.6
2	☐	5.000	4.656	71.11	0.0000	P	13.3
3	☐	50.000	52.102	758.92	0.0002	P	11.9
4	☐	125.000	128.886	1859.02	0.0004	P	6.1
5	☐	250.000	258.862	3647.15	0.0009	P	4.6
6	☐	500.000	508.254	7175.12	0.0017	P	1.4
7	☐	1000.000	993.068	14087.88	0.0033	P	0.7
8	☐			65.56	0.0000	P	27.7

$$y = 3.2821\text{E-}006 * x + 4.9874\text{E-}007$$

$$R = 0.9999$$

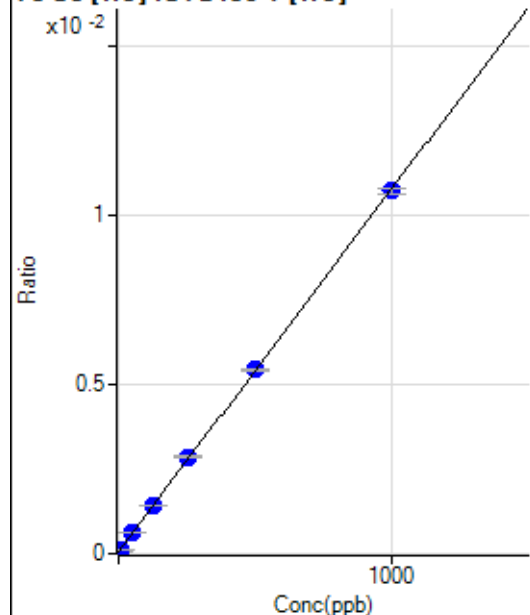
$$DL = 0.3949$$

$$BEC = 0.152$$

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	257.78	0.0001	P	17.5
2	☐	5.000	4.479	475.57	0.0001	P	2.4
3	☐	50.000	53.386	2788.07	0.0006	P	2.3
4	☐	125.000	128.073	6281.39	0.0014	P	2.2
5	☐	250.000	261.282	12265.15	0.0029	P	1.3
6	☐	500.000	502.853	23431.95	0.0054	P	1.0
7	☐	1000.000	995.202	46363.37	0.0107	P	1.4
8	☐			476.68	0.0001	P	7.0

$$y = 1.0722\text{E-}005 * x + 5.7603\text{E-}005$$

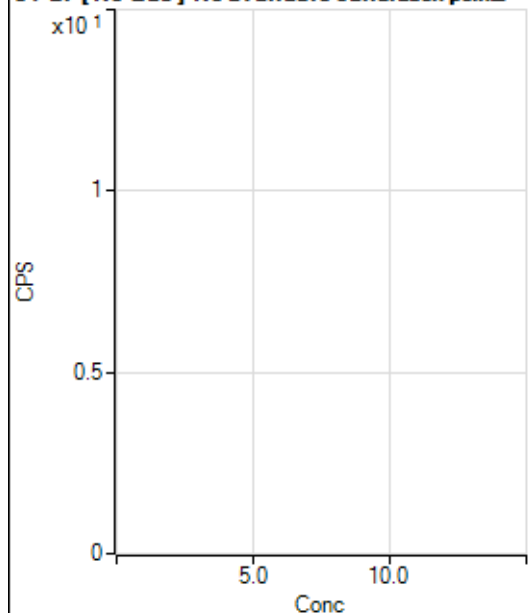
$$R = 0.9999$$

$$DL = 2.827$$

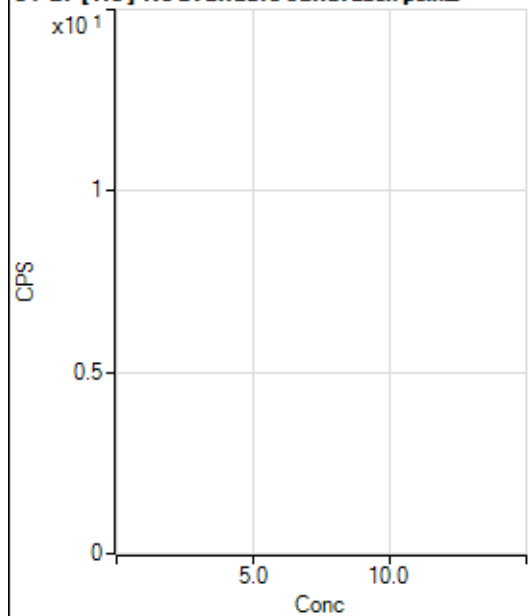
$$BEC = 5.372$$

Weight: <None>

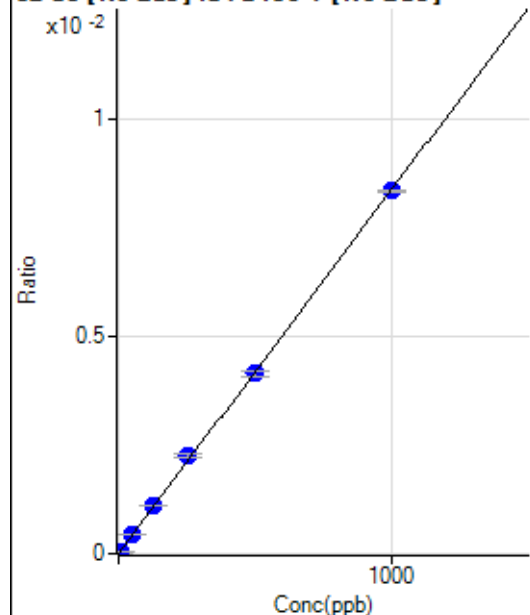
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26938.03		P	0.6
2	☐			27288.64		P	1.1
3	☐			26269.05		P	2.9
4	☐			25321.83		P	0.6
5	☐			25658.02		P	0.8
6	☐			25100.32		P	2.0
7	☐			25674.62		P	2.3
8	☐			28033.33		P	1.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			221.11		P	15.2
2	☐			187.78		P	15.1
3	☐			151.11		P	16.3
4	☐			157.78		P	4.4
5	☐			165.56		P	4.2
6	☐			136.67		P	4.9
7	☐			173.34		P	3.3
8	☐			568.90		P	11.1

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.55	0.0000	P	67.6
2	☐	5.000	4.959	903.66	0.0000	P	11.8
3	☐	50.000	51.523	8795.72	0.0004	P	1.0
4	☐	125.000	131.490	22146.98	0.0011	P	0.4
5	☐	250.000	268.515	43559.00	0.0023	P	3.0
6	☐	500.000	495.074	84603.74	0.0042	P	3.2
7	☐	1000.000	996.947	166327.16	0.0084	P	0.9
8	☐			1090.64	0.0001	P	4.1

$$y = 8.3889\text{E-}006 * x + 3.0956\text{E-}006$$

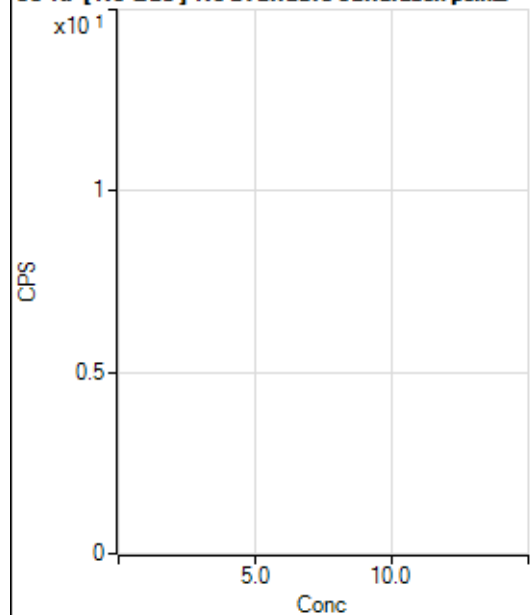
$$R = 0.9998$$

$$DL = 0.7488$$

$$BEC = 0.369$$

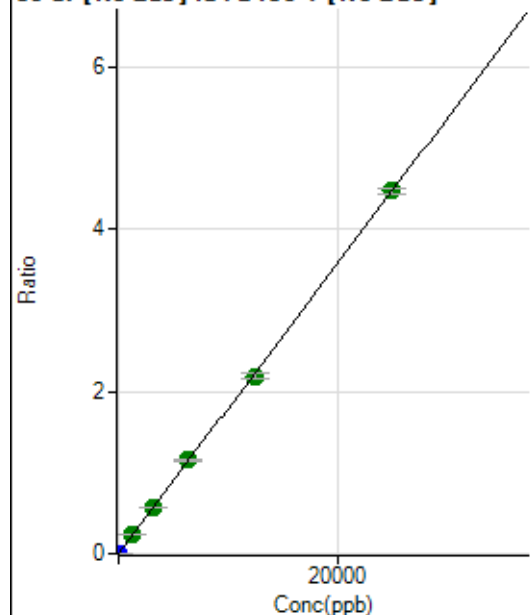
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			211.12		P	20.0
2	☐			195.56		P	18.7
3	☐			155.56		P	11.8
4	☐			186.67		P	25.0
5	☐			161.11		P	22.1
6	☐			214.45		P	20.7
7	☐			198.89		P	10.2
8	☐			241.12		P	7.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326.67	0.0000	P	7.7
2	☐	1.000	1.002	3942.79	0.0002	P	2.9
3	☐	1250.000	1271.468	4583757.47	0.2268	A	1.0
4	☐	3125.000	3150.577	11253743.44	0.5621	A	0.9
5	☐	6250.000	6459.292	22258233.00	1.1524	A	1.6
6	☐	12500.000	12276.987	44579382.67	2.1903	A	4.0
7	☐	25000.000	25054.913	88861254.23	4.4699	A	1.5
8	☐			16295.13	0.0009	P	24.4

$$y = 1.7840E-004 * x + 1.6182E-005$$

R = 0.9999

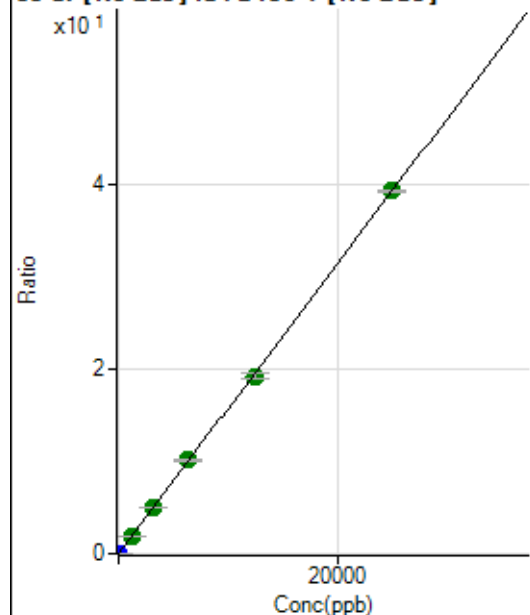
DL = 0.02104

BEC = 0.0907

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	247.78	0.0000	P	1.9
2	☐	1.000	0.960	30654.19	0.0015	P	1.9
3	☐	1250.000	1246.876	39441991.36	1.9520	A	0.4
4	☐	3125.000	3137.394	98339732.98	4.9117	A	0.1
5	☐	6250.000	6476.100	195816414.8	10.1385	A	1.9
6	☐	12500.000	12240.868	390106065.3	19.1634	A	3.0
7	☐	25000.000	25071.648	780340815.0	39.2504	A	0.4
8	☐			141613.58	0.0077	P	25.1

$$y = 0.0016 * x + 1.2276E-005$$

R = 0.9999

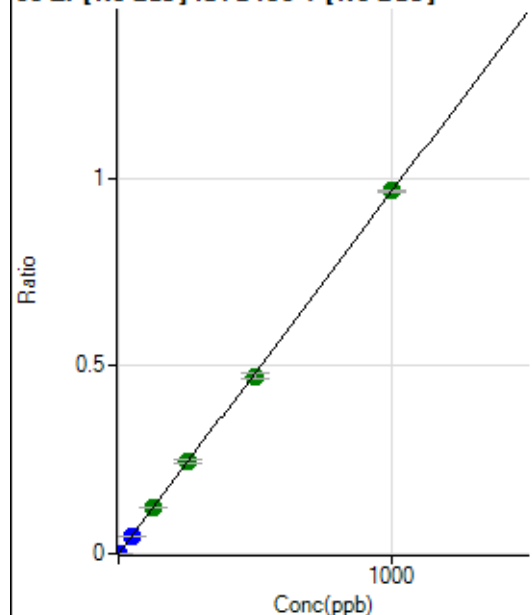
DL = 0.0004432

BEC = 0.007842

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	756.70	0.0000	P	7.7
2	☐	1.000	0.906	18400.52	0.0009	P	1.9
3	☐	50.000	49.746	967772.51	0.0479	P	0.9
4	☐	125.000	127.861	2463818.19	0.1231	A	0.4
5	☐	250.000	255.602	4750191.11	0.2460	A	2.5
6	☐	500.000	490.459	9607597.29	0.4719	A	3.1
7	☐	1000.000	1003.025	19186486.10	0.9651	A	0.8
8	☐			9299.70	0.0005	P	8.1

$$y = 9.6214\text{E-}004 * x + 3.7484\text{E-}005$$

$$R = 0.9999$$

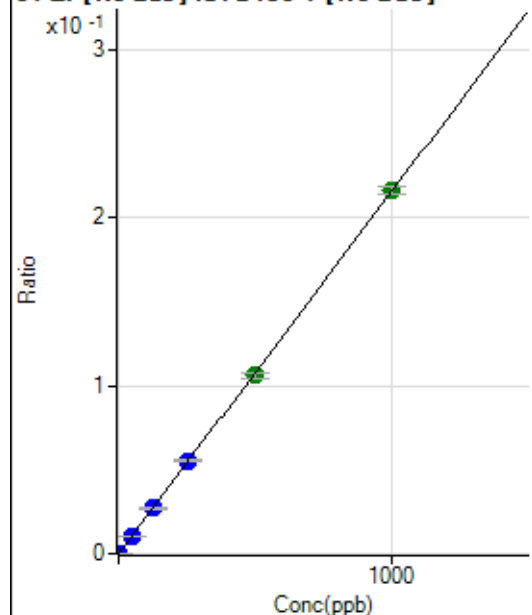
$$DL = 0.008976$$

$$BEC = 0.03896$$

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	107.78	0.0000	P	18.6
2	☐	1.000	0.880	3939.45	0.0002	P	3.2
3	☐	50.000	49.732	216451.55	0.0107	P	1.1
4	☐	125.000	124.922	538643.58	0.0269	P	0.3
5	☐	250.000	256.265	1065777.31	0.0552	P	2.2
6	☐	500.000	492.090	2157295.97	0.1060	A	2.7
7	☐	1000.000	1002.412	4290946.22	0.2158	A	1.9
8	☐			2116.84	0.0001	P	10.1

$$y = 2.1532\text{E-}004 * x + 5.3383\text{E-}006$$

$$R = 0.9999$$

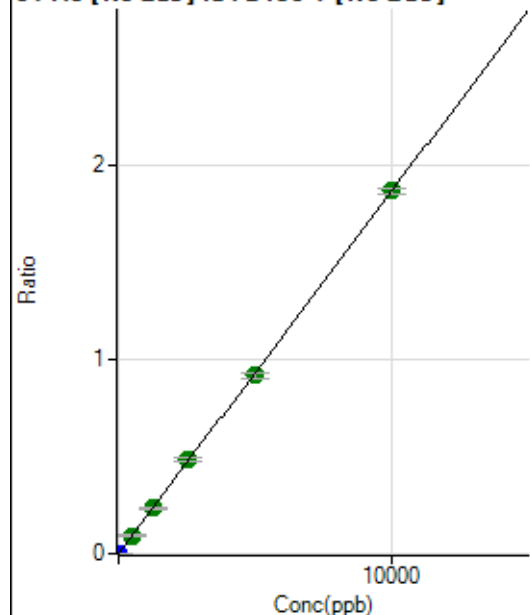
$$DL = 0.01384$$

$$BEC = 0.02479$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	255.56	0.0000	P	11.4
2	☐	5.000	5.653	21636.07	0.0011	P	0.5
3	☐	500.000	503.266	1900454.24	0.0941	A	2.6
4	☐	1250.000	1256.503	4701948.50	0.2348	A	1.5
5	☐	2500.000	2604.943	9401606.39	0.4869	A	3.1
6	☐	5000.000	4913.697	18694657.91	0.9183	A	3.2
7	☐	10000.000	10015.939	37213083.05	1.8719	A	1.5
8	☐			11660.39	0.0006	P	15.2

$$y = 1.8689E-004 * x + 1.2665E-005$$

$$R = 0.9999$$

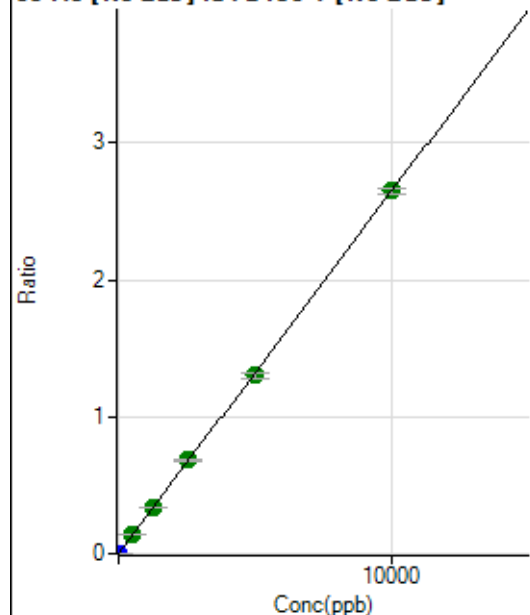
$$DL = 0.02312$$

$$BEC = 0.06777$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0000	P	33.6
2	☐	5.000	4.882	26187.92	0.0013	P	3.0
3	☐	500.000	507.192	2713260.69	0.1343	A	0.4
4	☐	1250.000	1262.386	6691632.54	0.3342	A	1.2
5	☐	2500.000	2591.977	13253838.69	0.6862	A	2.1
6	☐	5000.000	4931.579	26579005.99	1.3057	A	3.1
7	☐	10000.000	10009.309	52681334.77	2.6500	A	1.7
8	☐			13139.54	0.0007	P	21.0

$$y = 2.6476E-004 * x + 1.8730E-006$$

$$R = 0.9999$$

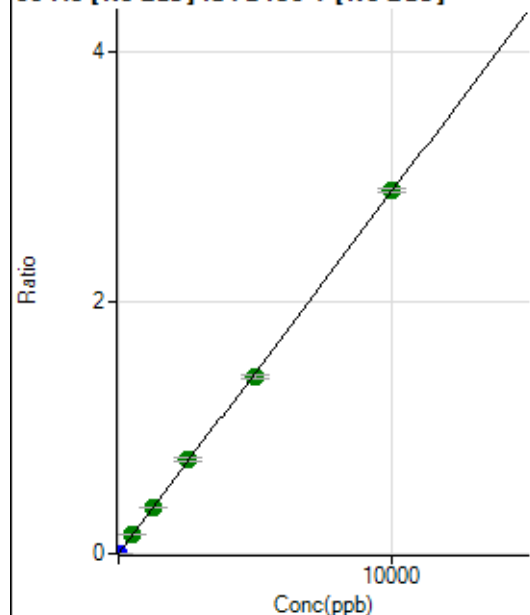
$$DL = 0.007137$$

$$BEC = 0.007075$$

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	118.89	0.0000	P	15.6
2	☐	5.000	4.951	29019.89	0.0014	P	1.2
3	☐	500.000	509.700	2970856.45	0.1470	A	1.3
4	☐	1250.000	1260.471	7280187.95	0.3636	A	1.3
5	☐	2500.000	2605.247	14513426.87	0.7516	A	3.1
6	☐	5000.000	4898.092	28766202.35	1.4130	A	2.6
7	☐	10000.000	10022.849	57483180.25	2.8914	A	0.9
8	☐			28094.00	0.0015	P	9.7

$$y = 2.8848\text{E-}004 * x + 5.8887\text{E-}006$$

$$R = 0.9999$$

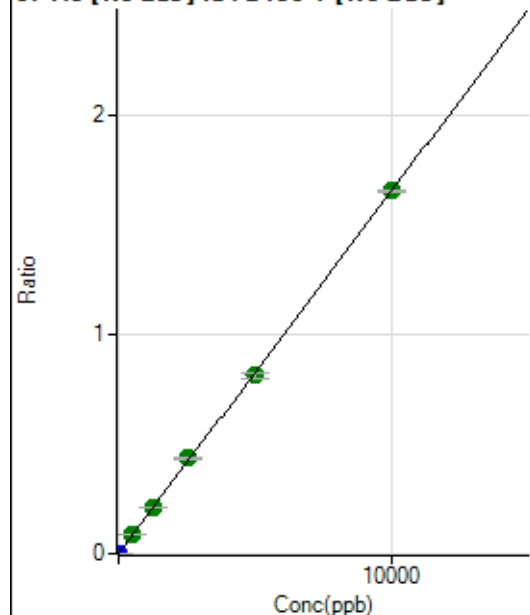
$$DL = 0.009577$$

$$BEC = 0.02041$$

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	31.11	0.0000	P	22.5
2	☐	5.000	4.980	16706.31	0.0008	P	2.8
3	☐	500.000	507.915	1698413.90	0.0841	A	0.9
4	☐	1250.000	1262.090	4182105.81	0.2089	A	1.9
5	☐	2500.000	2635.799	8424022.30	0.4362	A	3.0
6	☐	5000.000	4925.199	16592493.22	0.8151	A	3.2
7	☐	10000.000	10001.544	32908980.34	1.6552	A	0.3
8	☐			8503.73	0.0005	P	18.3

$$y = 1.6550\text{E-}004 * x + 1.5420\text{E-}006$$

$$R = 0.9999$$

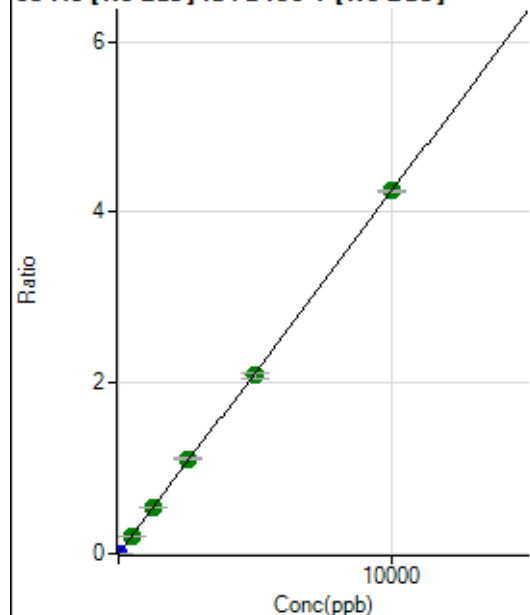
$$DL = 0.006298$$

$$BEC = 0.009318$$

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	44.44	0.0000	P	31.7
2	☐	5.000	5.018	43132.34	0.0021	P	1.7
3	☐	500.000	500.747	4293081.12	0.2125	A	1.1
4	☐	1250.000	1254.875	10661157.48	0.5325	A	1.0
5	☐	2500.000	2615.800	21438706.07	1.1100	A	1.9
6	☐	5000.000	4917.512	42477480.48	2.0867	A	3.1
7	☐	10000.000	10011.647	84458972.63	4.2483	A	0.8
8	☐			20479.47	0.0011	P	22.0

$$y = 4.2434\text{E-}004 * x + 2.2038\text{E-}006$$

$$R = 0.9999$$

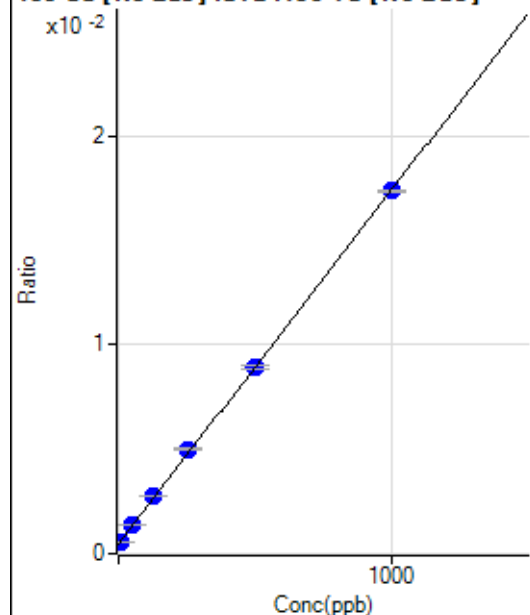
$$DL = 0.004934$$

$$BEC = 0.005193$$

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	8690.44	0.0005	P	2.7
2	☐	1.000	0.718	8787.17	0.0005	P	2.8
3	☐	50.000	52.525	23549.16	0.0014	P	0.8
4	☐	125.000	131.767	45632.52	0.0028	P	1.1
5	☐	250.000	265.641	81814.17	0.0050	P	2.5
6	☐	500.000	496.843	153124.93	0.0089	P	2.5
7	☐	1000.000	996.696	289905.61	0.0174	P	0.8
8	☐			7927.80	0.0005	P	0.9

$$y = 1.6921\text{E-}005 * x + 5.2112\text{E-}004$$

$$R = 0.9998$$

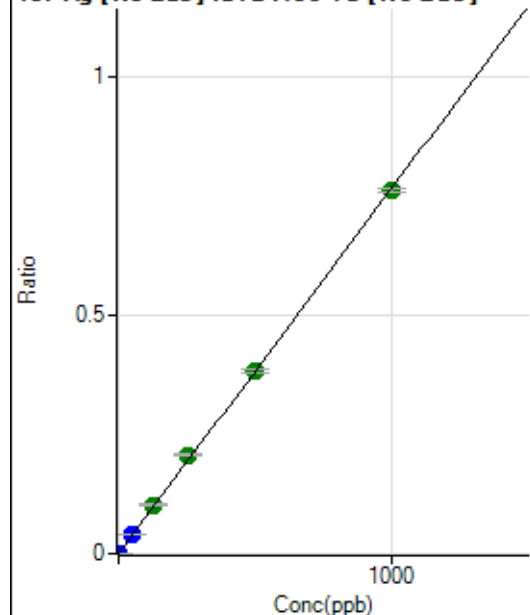
$$DL = 2.452$$

$$BEC = 30.8$$

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	101.11	0.0000	P	16.5
2	☐	1.000	1.041	13218.33	0.0008	P	1.4
3	☐	50.000	54.553	696830.30	0.0417	P	1.6
4	☐	125.000	134.286	1703622.74	0.1027	A	0.4
5	☐	250.000	270.135	3369263.00	0.2066	A	3.0
6	☐	500.000	499.831	6555479.76	0.3822	A	2.2
7	☐	1000.000	993.662	12669459.53	0.7598	A	1.2
8	☐			3249.30	0.0002	P	22.8

$$y = 7.6466\text{E-}004 * x + 6.0616\text{E-}006$$

$$R = 0.9998$$

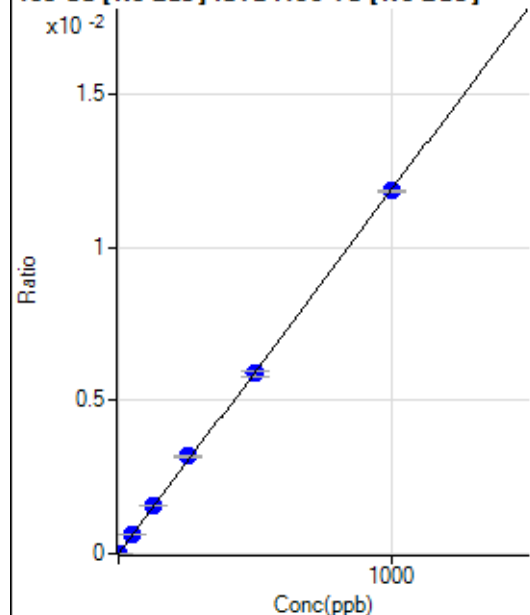
$$DL = 0.003927$$

$$BEC = 0.007927$$

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	17.78	0.0000	P	38.3
2	☐	1.000	0.871	187.78	0.0000	P	10.9
3	☐	50.000	53.059	10537.23	0.0006	P	0.6
4	☐	125.000	133.278	26261.60	0.0016	P	1.4
5	☐	250.000	267.151	51737.38	0.0032	P	2.7
6	☐	500.000	494.789	100736.48	0.0059	P	3.0
7	☐	1000.000	997.130	197365.98	0.0118	P	0.2
8	☐			131.11	0.0000	P	19.4

$$y = 1.1869\text{E-}005 * x + 1.0638\text{E-}006$$

$$R = 0.9998$$

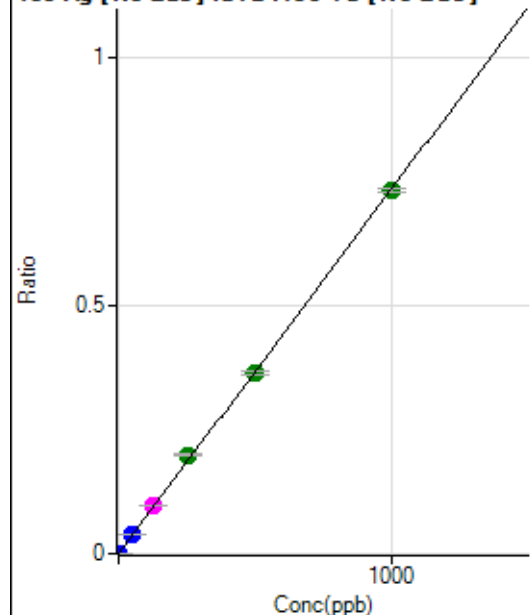
$$DL = 0.103$$

$$BEC = 0.08963$$

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	31.11	0.0000	P	21.4
2	☐	1.000	1.031	12519.94	0.0008	P	1.8
3	☐	50.000	54.197	665769.88	0.0399	P	1.0
4	☐	125.000	132.861	1621014.73	0.0977	M	0.7
5	☐	250.000	270.835	3248802.42	0.1992	A	2.6
6	☐	500.000	497.043	6269771.15	0.3655	A	2.0
7	☐	1000.000	995.077	12202417.74	0.7318	A	1.0
8	☐			3172.61	0.0002	P	18.0

$$y = 7.3543\text{E-}004 * x + 1.8629\text{E-}006$$

$$R = 0.9997$$

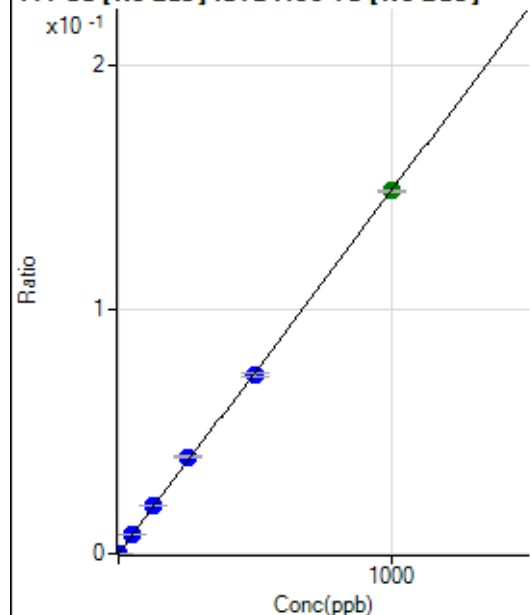
$$DL = 0.001629$$

$$BEC = 0.002533$$

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	869.93	0.0001	P	3.8
2	☐	1.000	1.097	3542.01	0.0002	P	3.3
3	☐	50.000	53.032	132282.72	0.0079	P	1.2
4	☐	125.000	131.087	323518.90	0.0195	P	0.6
5	☐	250.000	264.825	641708.49	0.0393	P	2.0
6	☐	500.000	492.693	1254583.96	0.0731	P	2.2
7	☐	1000.000	999.035	2472278.62	0.1483	A	0.3
8	☐			2002.19	0.0001	P	2.6

$$y = 1.4836\text{E-}004 * x + 5.2168\text{E-}005$$

$$R = 0.9998$$

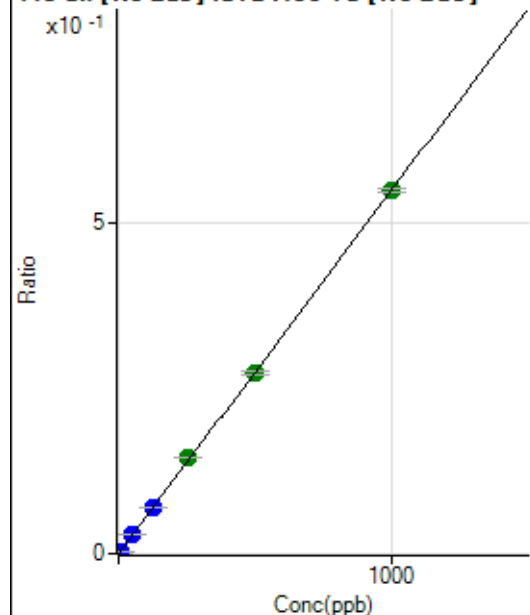
$$DL = 0.04054$$

$$BEC = 0.3516$$

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	1311.19	0.0001	P	7.2
2	☐	5.000	4.947	46092.39	0.0028	P	1.6
3	☐	50.000	51.157	470866.98	0.0282	P	1.3
4	☐	125.000	127.807	1166508.51	0.0703	P	0.5
5	☐	250.000	264.336	2370825.42	0.1453	A	1.6
6	☐	500.000	495.371	4670591.42	0.2723	A	1.9
7	☐	1000.000	998.322	9149404.17	0.5487	A	1.1
8	☐			7804.41	0.0005	P	3.4

$$y = 5.4954\text{E-}004 * x + 7.8668\text{E-}005$$

$$R = 0.9999$$

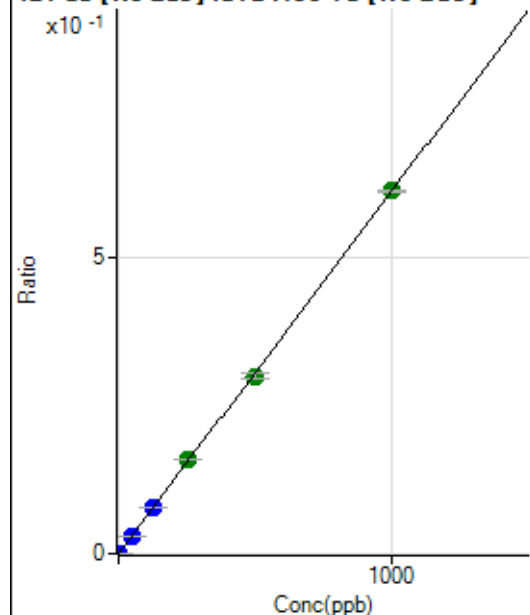
$$DL = 0.03108$$

$$BEC = 0.1432$$

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	52.22	0.0000	P	19.2
2	☐	2.000	1.968	19843.75	0.0012	P	1.0
3	☐	50.000	50.222	511966.53	0.0307	P	0.4
4	☐	125.000	126.470	1280454.18	0.0772	P	0.4
5	☐	250.000	261.582	2604353.60	0.1596	A	0.4
6	☐	500.000	490.650	5135333.19	0.2994	A	2.6
7	☐	1000.000	1001.585	10191991.51	0.6112	A	0.5
8	☐			6329.22	0.0004	P	2.1

$$y = 6.1026\text{E-}004 * x + 3.1345\text{E-}006$$

$$R = 0.9999$$

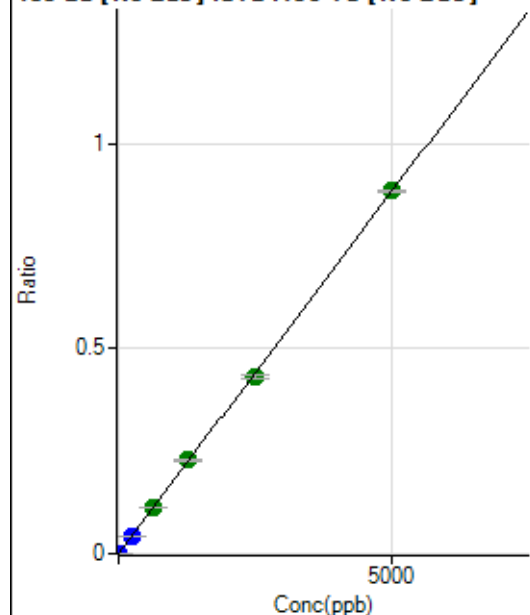
$$DL = 0.002963$$

$$BEC = 0.005136$$

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	27.78	0.0000	P	60.0
2	☐	10.000	9.314	27127.02	0.0016	P	2.2
3	☐	250.000	243.641	718545.17	0.0430	P	1.0
4	☐	625.000	633.458	1855560.32	0.1118	A	1.7
5	☐	1250.000	1294.326	3727764.36	0.2285	A	1.9
6	☐	2500.000	2446.572	7408710.86	0.4320	A	2.7
7	☐	5000.000	5014.895	14764560.33	0.8855	A	0.7
8	☐			8962.91	0.0006	P	5.1

$$y = 1.7656\text{E-}004 * x + 1.6713\text{E-}006$$

$$R = 0.9999$$

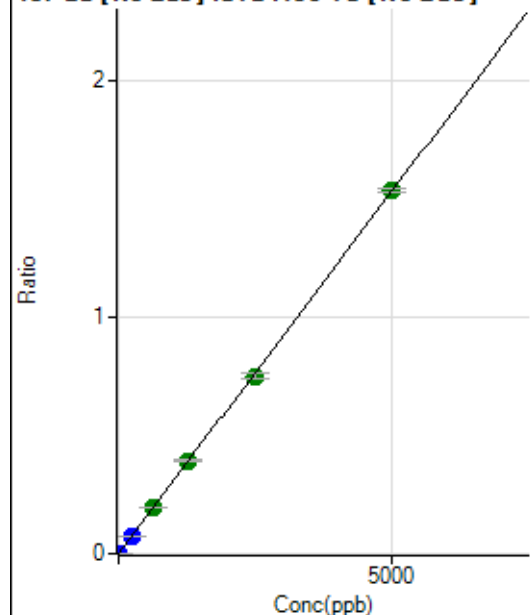
$$DL = 0.01704$$

$$BEC = 0.009466$$

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	53.33	0.0000	P	35.3
2	☐	10.000	9.317	47075.35	0.0029	P	1.1
3	☐	250.000	245.733	1257198.41	0.0753	P	0.8
4	☐	625.000	638.064	3242302.45	0.1954	A	0.7
5	☐	1250.000	1286.430	6428064.70	0.3940	A	0.4
6	☐	2500.000	2451.951	12879861.06	0.7510	A	3.0
7	☐	5000.000	5013.499	25605461.56	1.5356	A	1.1
8	☐			15713.23	0.0010	P	5.3

$$y = 3.0629\text{E-}004 * x + 3.2005\text{E-}006$$

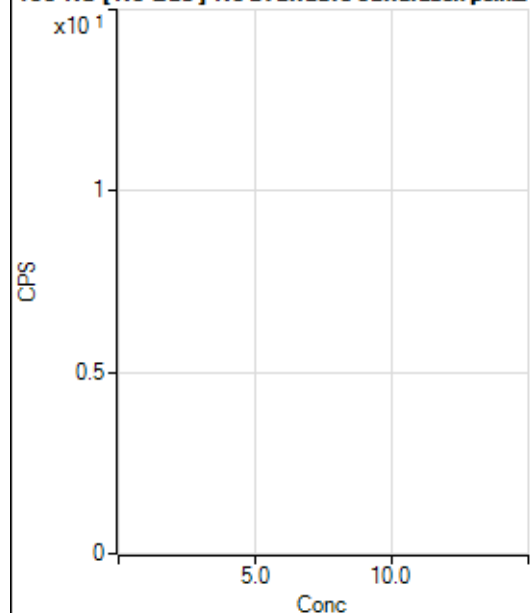
$$R = 0.9999$$

$$DL = 0.01108$$

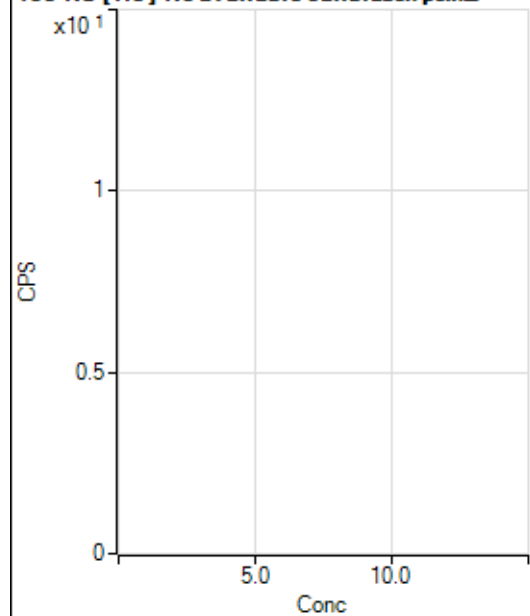
$$BEC = 0.01045$$

Weight: <None>

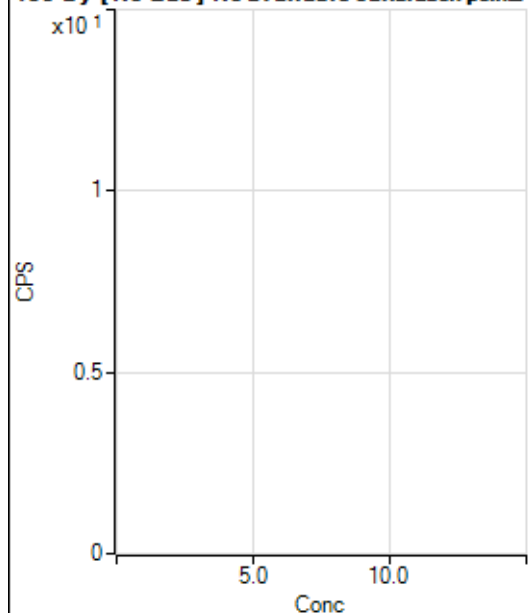
Min Conc: 0

150 Nd [No Gas] No available calibration points

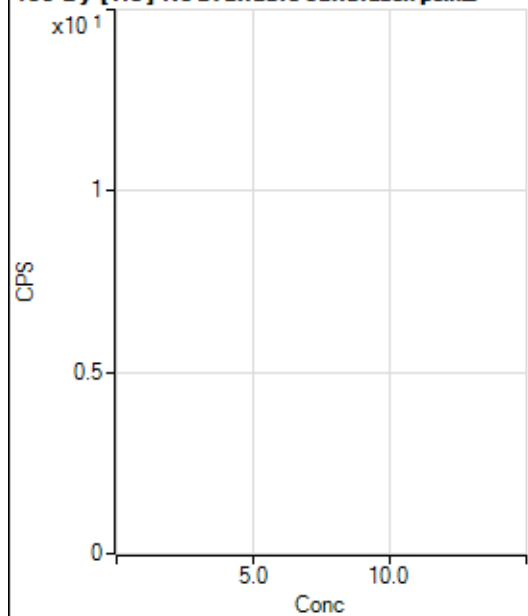
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			16.67		P	40.0
3	☐			76.67		P	15.7
4	☐			193.34		P	1.7
5	☐			441.12		P	7.0
6	☐			778.92		P	7.0
7	☐			1607.89		P	5.1
8	☐			431.12		P	15.2

150 Nd [He] No available calibration points

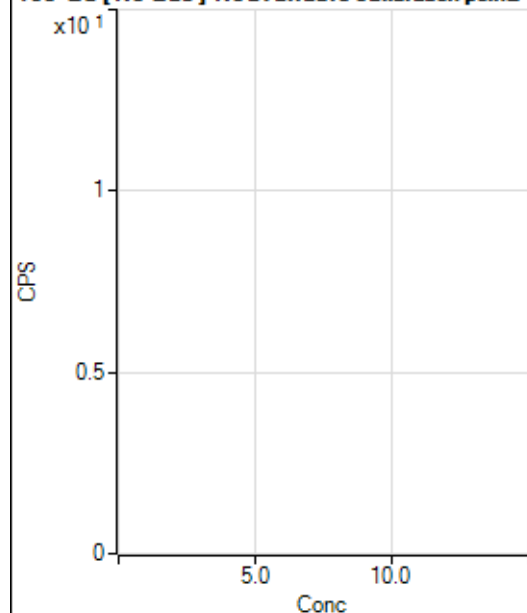
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			6.67		P	50.0
3	☐			35.56		P	32.9
4	☐			61.11		P	35.1
5	☐			86.67		P	21.4
6	☐			152.22		P	24.0
7	☐			362.23		P	5.1
8	☐			220.00		P	14.9

156 Dy [No Gas] No available calibration points

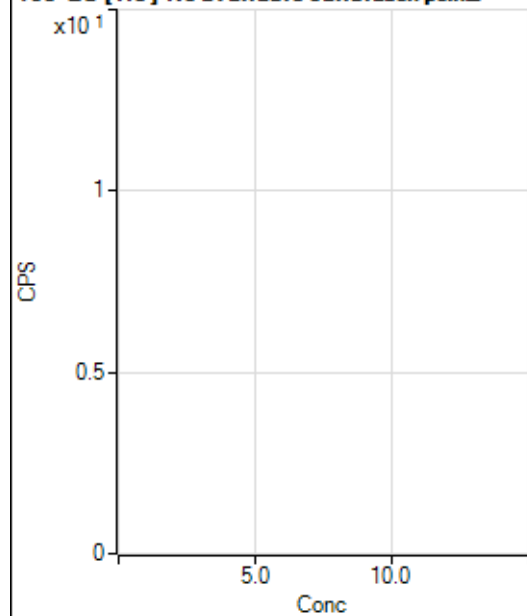
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.55		P	44.6
2	☐			17.78		P	47.2
3	☐			67.78		P	27.1
4	☐			133.34		P	17.3
5	☐			232.23		P	6.5
6	☐			460.01		P	4.8
7	☐			905.59		P	12.7
8	☐			2341.33		P	5.1

156 Dy [He] No available calibration points

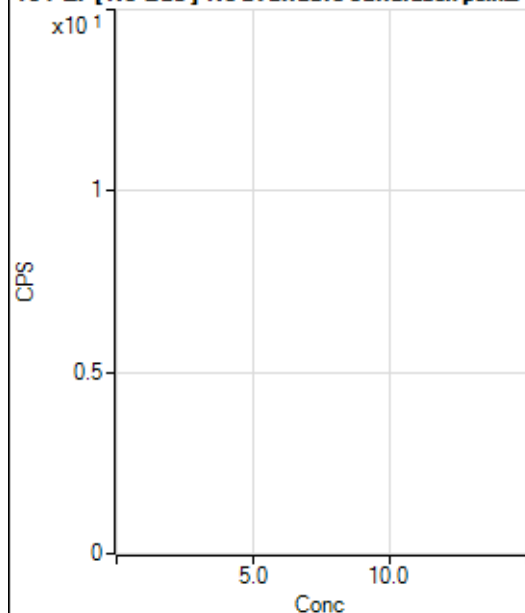
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			7.78		P	65.5
3	☐			35.55		P	30.1
4	☐			106.67		P	11.3
5	☐			210.00		P	6.3
6	☐			406.68		P	7.9
7	☐			782.25		P	12.3
8	☐			1550.10		P	4.8

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

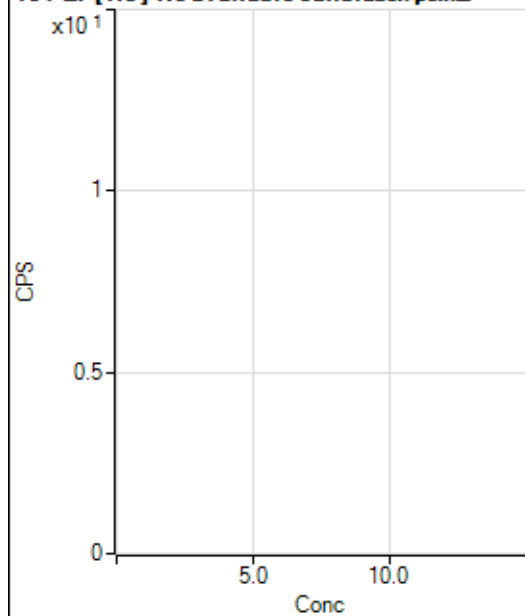
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			104.44		P	29.7
2	☐			122.23		P	8.3
3	☐			175.56		P	6.7
4	☐			200.00		P	9.3
5	☐			283.34		P	5.4
6	☐			437.79		P	3.8
7	☐			837.81		P	1.8
8	☐			2686.95		P	2.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			404.46		P	9.9
2	☐			380.01		P	7.0
3	☐			430.01		P	8.6
4	☐			490.02		P	10.9
5	☐			503.35		P	7.5
6	☐			581.13		P	5.2
7	☐			824.48		P	5.5
8	☐			2000.16		P	0.6

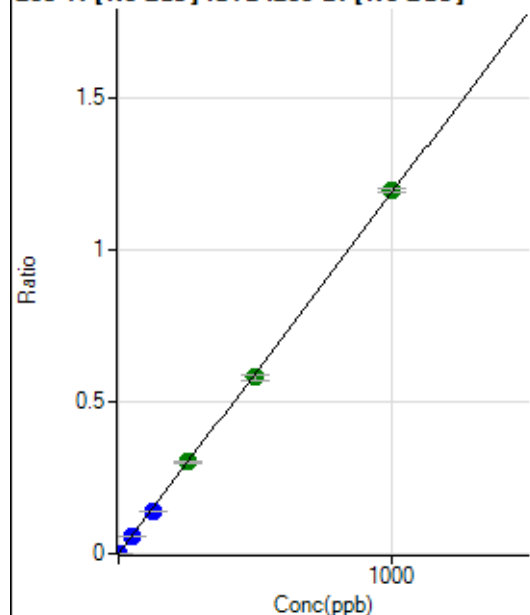
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			125.56		P	6.7
2	☐			132.22		P	5.2
3	☐			134.45		P	21.7
4	☐			140.00		P	9.5
5	☐			152.23		P	23.4
6	☐			232.22		P	1.7
7	☐			356.68		P	15.9
8	☐			410.01		P	13.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75.56		P	18.4
2	☐			86.67		P	25.2
3	☐			68.89		P	35.0
4	☐			96.67		P	28.2
5	☐			113.34		P	22.2
6	☐			140.00		P	10.9
7	☐			221.11		P	5.7
8	☐			226.67		P	4.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	193.34	0.0000	P	17.3
2	☐	1.000	0.880	9940.38	0.0011	P	5.4
3	☐	50.000	46.467	511471.73	0.0551	P	0.6
4	☐	125.000	116.381	1278839.65	0.1379	P	0.7
5	☐	250.000	254.396	2742769.16	0.3014	A	2.0
6	☐	500.000	488.151	5459436.38	0.5783	A	3.0
7	☐	1000.000	1006.080	10666276.09	1.1918	A	0.9
8	☐			2711.42	0.0004	P	18.0

$$y = 0.0012 * x + 2.0852E-005$$

$$R = 0.9999$$

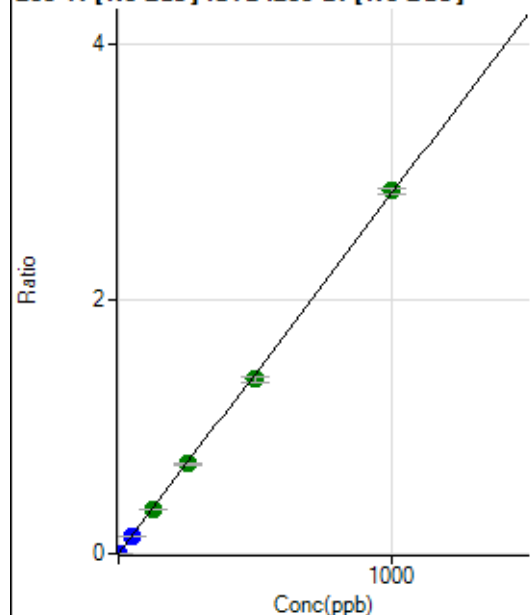
$$DL = 0.009116$$

$$BEC = 0.0176$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	482.24	0.0001	P	7.5
2	☐	1.000	0.871	23553.81	0.0025	P	0.8
3	☐	50.000	45.994	1209296.04	0.1302	P	0.4
4	☐	125.000	122.599	3217800.86	0.3470	A	0.5
5	☐	250.000	250.382	6448558.79	0.7085	A	1.7
6	☐	500.000	485.071	12958334.11	1.3726	A	3.0
7	☐	1000.000	1007.870	25522281.29	2.8519	A	1.4
8	☐			6393.83	0.0008	P	20.5

$$y = 0.0028 * x + 5.2016E-005$$

$$R = 0.9998$$

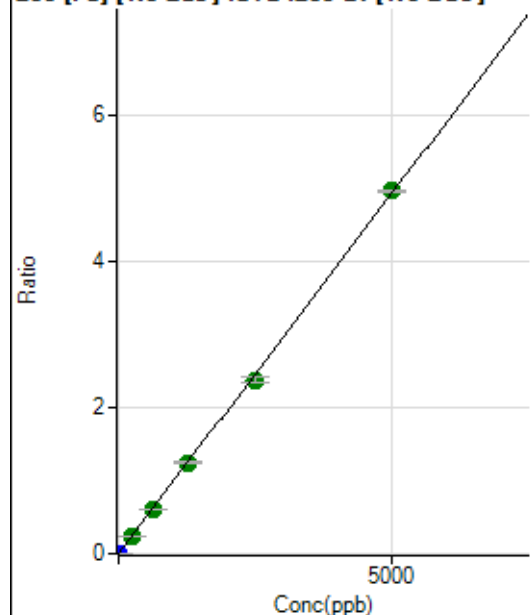
$$DL = 0.004131$$

$$BEC = 0.01838$$

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	475.57	0.0001	P	13.8
2	☐	1.000	0.859	8387.10	0.0009	P	1.4
3	☐	250.000	244.731	2237591.67	0.2409	A	1.3
4	☐	625.000	614.805	5612470.40	0.6051	A	1.5
5	☐	1250.000	1262.880	11312333.31	1.2429	A	1.7
6	☐	2500.000	2411.854	22406481.33	2.3737	A	3.8
7	☐	5000.000	5042.391	44414086.01	4.9625	A	0.7
8	☐			426598.95	0.0554	P	8.8

$$y = 9.8416\text{E-}004 * x + 5.1296\text{E-}005$$

$$R = 0.9998$$

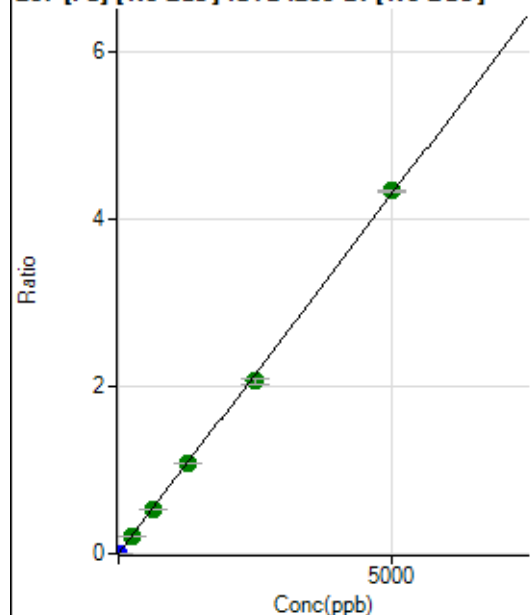
$$DL = 0.02156$$

$$BEC = 0.05212$$

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	431.12	0.0000	P	17.5
2	☐	1.000	0.848	7236.45	0.0008	P	2.0
3	☐	250.000	245.390	1955090.06	0.2105	A	0.3
4	☐	625.000	610.315	4854685.27	0.5234	A	0.5
5	☐	1250.000	1256.946	9810721.52	1.0780	A	1.2
6	☐	2500.000	2400.383	19431725.40	2.0585	A	3.7
7	☐	5000.000	5050.138	38761036.65	4.3309	A	0.7
8	☐			345088.71	0.0448	P	8.2

$$y = 8.5757\text{E-}004 * x + 4.6496\text{E-}005$$

$$R = 0.9997$$

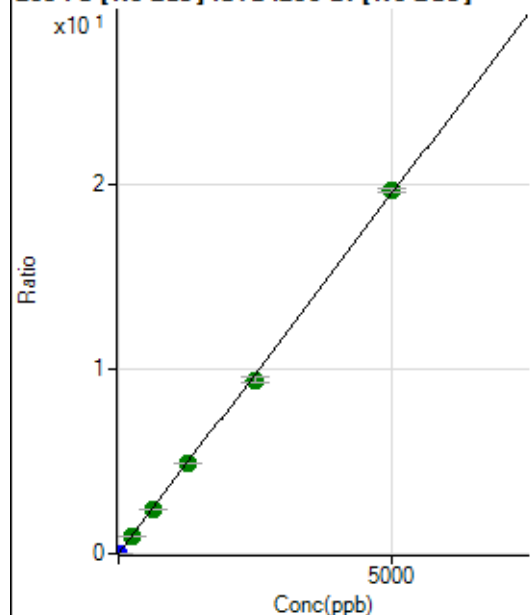
$$DL = 0.02839$$

$$BEC = 0.05422$$

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	1945.63	0.0002	P	7.3
2	☐	1.000	0.856	33235.04	0.0036	P	0.9
3	☐	250.000	244.465	8871622.70	0.9551	A	0.6
4	☐	625.000	612.641	22196530.92	2.3933	A	0.3
5	☐	1250.000	1260.917	44829381.70	4.9255	A	0.9
6	☐	2500.000	2412.491	88958155.48	9.4237	A	3.5
7	☐	5000.000	5042.847	176291054.6	19.6982	A	1.1
8	☐			1623107.15	0.2106	P	8.3

$$y = 0.0039 * x + 2.0980E-004$$

$$R = 0.9998$$

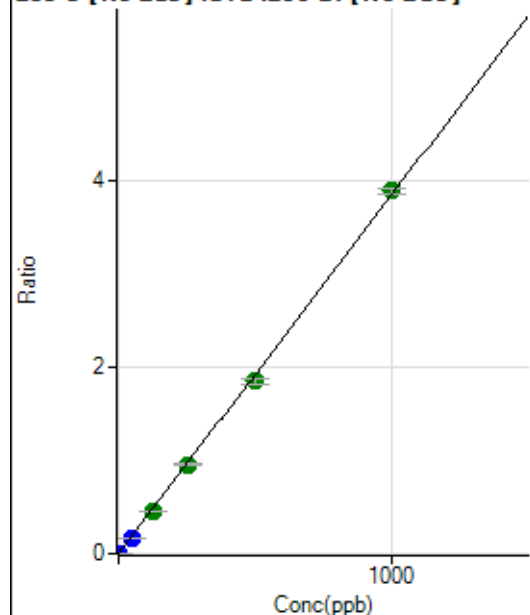
$$DL = 0.01173$$

$$BEC = 0.05371$$

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	12.22	0.0000	P	16.4
2	☐	1.000	0.826	29685.32	0.0032	P	1.9
3	☐	50.000	43.955	1568732.27	0.1689	P	1.0
4	☐	125.000	119.386	4254575.32	0.4587	A	0.5
5	☐	250.000	247.781	8665111.19	0.9521	A	1.3
6	☐	500.000	479.986	17410985.16	1.8443	A	3.6
7	☐	1000.000	1011.566	34785582.26	3.8868	A	1.7
8	☐			6074.84	0.0008	P	23.0

$$y = 0.0038 * x + 1.3186E-006$$

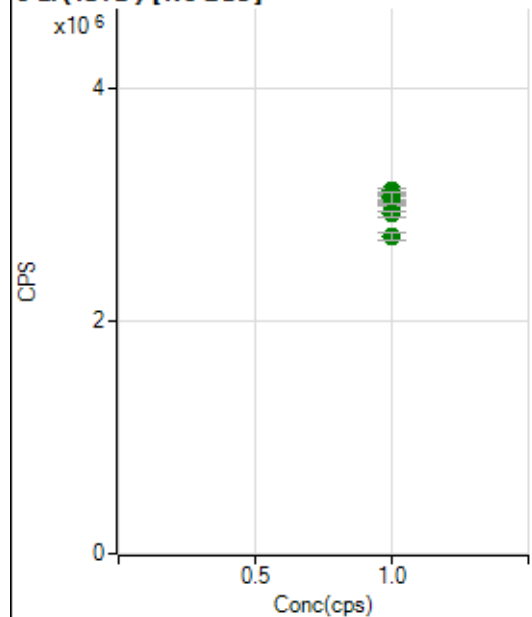
$$R = 0.9997$$

$$DL = 0.0001684$$

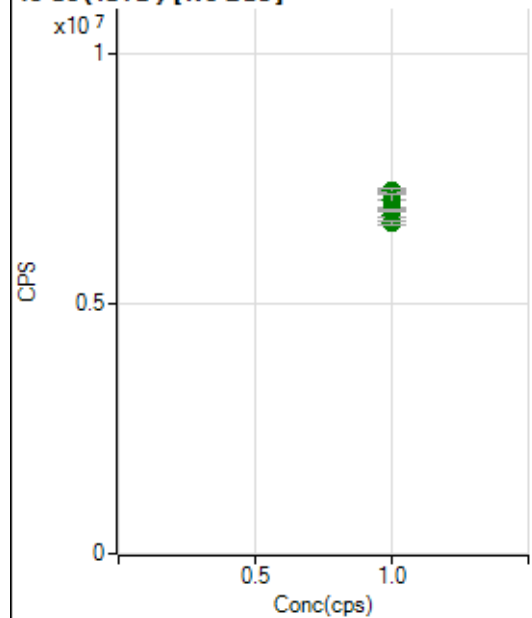
$$BEC = 0.0003432$$

Weight: <None>

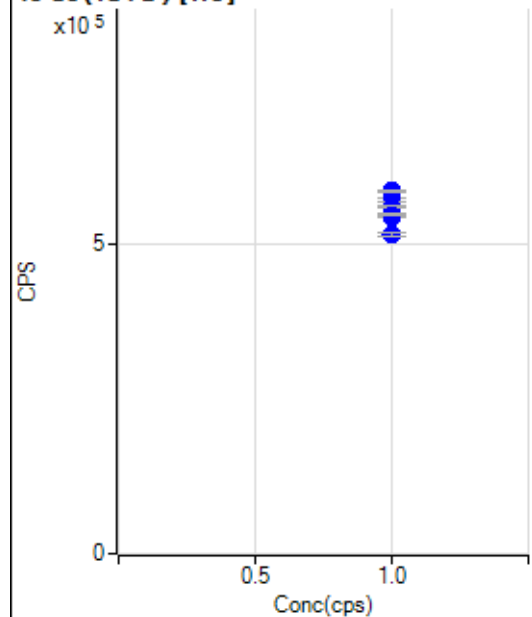
Min Conc: 0

6 Li (ISTD) [No Gas]

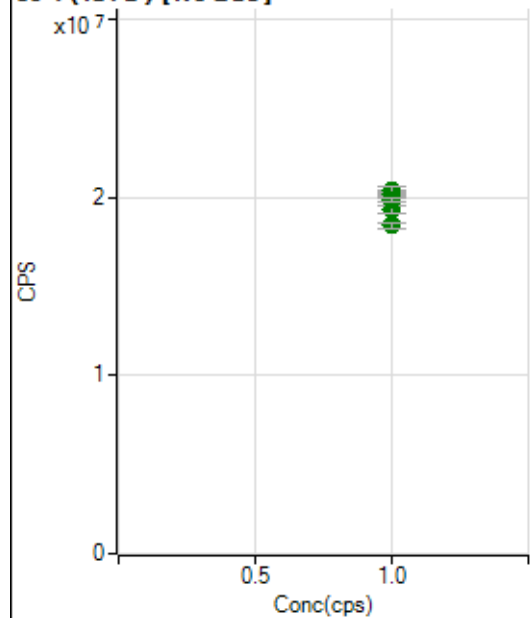
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3124163.08		A	1.4
2	☐	1.000		3086635.48		A	0.2
3	☐	1.000		3094988.88		A	0.7
4	☐	1.000		3073757.25		A	1.5
5	☐	1.000		3014326.69		A	1.0
6	☐	1.000		3060218.36		A	3.6
7	☐	1.000		2923775.51		A	1.3
8	☐	1.000		2725105.88		A	2.4

45 Sc (ISTD) [No Gas]

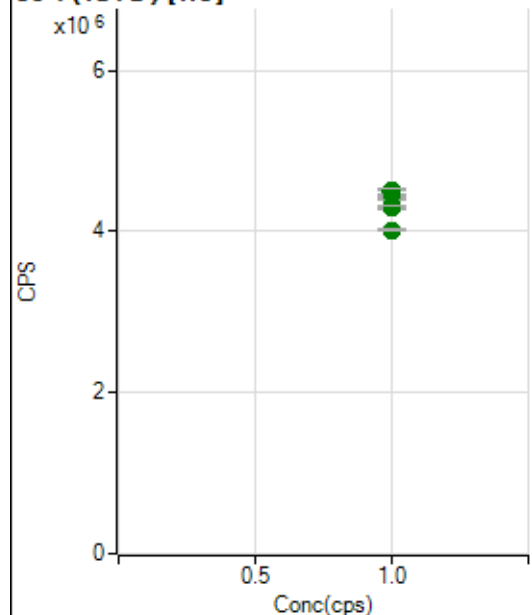
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7226814.20		A	0.5
2	☐	1.000		7195044.48		A	0.6
3	☐	1.000		7249927.95		A	1.2
4	☐	1.000		7058571.49		A	0.1
5	☐	1.000		6781131.64		A	1.3
6	☐	1.000		7066456.49		A	3.8
7	☐	1.000		6864608.30		A	0.6
8	☐	1.000		6620535.80		A	1.2

45 Sc (ISTD) [He]

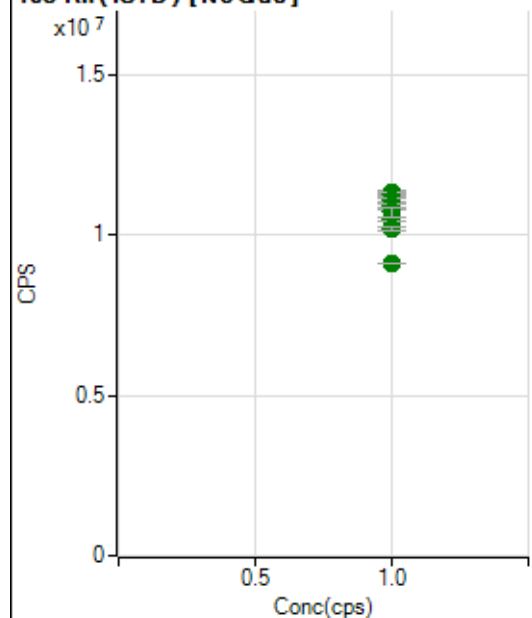
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		576181.57		P	0.5
2	☐	1.000		587500.81		P	0.3
3	☐	1.000		569982.67		P	0.1
4	☐	1.000		561684.73		P	0.2
5	☐	1.000		549409.31		P	0.5
6	☐	1.000		546379.66		P	0.9
7	☐	1.000		549026.11		P	0.5
8	☐	1.000		516462.07		P	0.8

89 Y (ISTD) [No Gas]

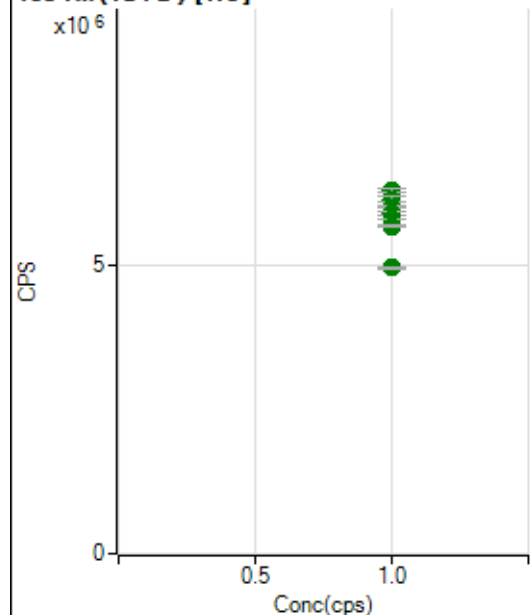
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20183304.84		A	0.5
2	☐	1.000		20235650.53		A	1.2
3	☐	1.000		20205350.39		A	1.0
4	☐	1.000		20021523.87		A	0.5
5	☐	1.000		19319505.27		A	2.2
6	☐	1.000		20367897.75		A	2.7
7	☐	1.000		19881549.43		A	0.9
8	☐	1.000		18436708.61		A	1.6

89 Y(ISTD) [He]

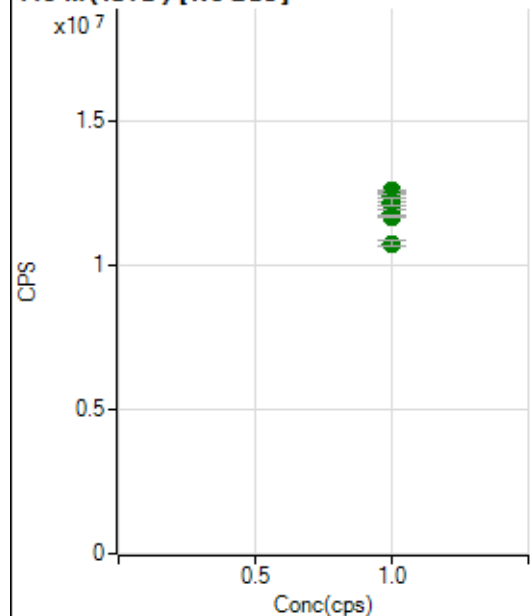
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4475632.47		A	1.5
2	☐	1.000		4501568.96		A	1.3
3	☐	1.000		4425759.31		A	0.7
4	☐	1.000		4390389.38		A	0.5
5	☐	1.000		4289827.75		A	1.3
6	☐	1.000		4299918.68		A	0.6
7	☐	1.000		4321687.33		A	0.3
8	☐	1.000		4018393.97		A	0.4

103 Rh(ISTD) [No Gas]

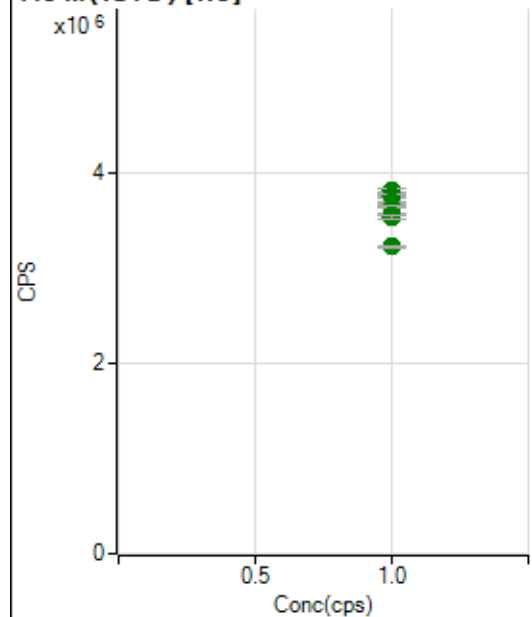
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11328689.41		A	1.0
2	☐	1.000		11311811.08		A	1.1
3	☐	1.000		11111412.06		A	0.6
4	☐	1.000		10915171.09		A	1.7
5	☐	1.000		10506045.12		A	1.0
6	☐	1.000		10731855.32		A	3.0
7	☐	1.000		10198668.60		A	0.8
8	☐	1.000		9121200.98		A	0.5

103 Rh (ISTD) [He]

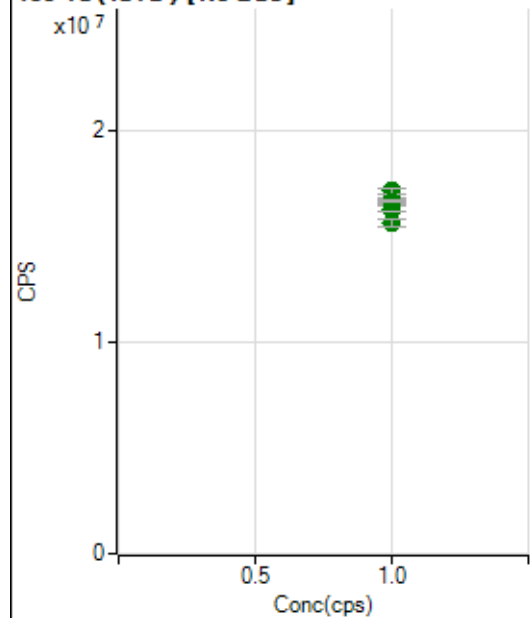
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6196864.70		A	0.4
2	☐	1.000		6287584.00		A	1.1
3	☐	1.000		6145106.92		A	1.9
4	☐	1.000		6012805.95		A	0.7
5	☐	1.000		5906845.81		A	1.1
6	☐	1.000		5798581.44		A	0.3
7	☐	1.000		5681053.38		A	0.5
8	☐	1.000		4952549.93		A	1.0

115 In (ISTD) [No Gas]

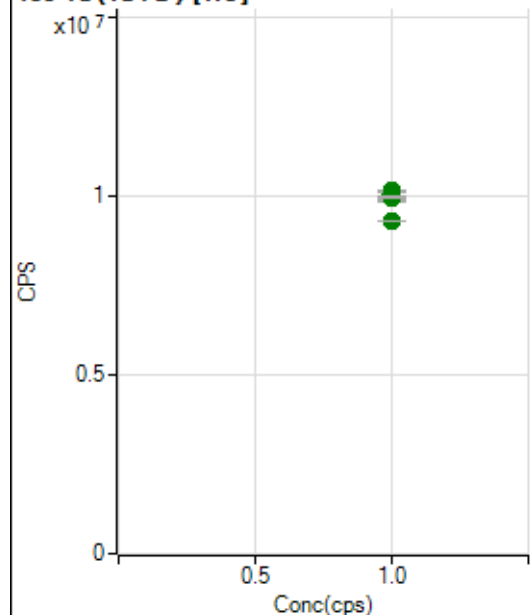
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12413829.95		A	1.2
2	☐	1.000		12590596.17		A	0.7
3	☐	1.000		12407325.43		A	1.1
4	☐	1.000		12144846.66		A	0.8
5	☐	1.000		11844918.01		A	1.7
6	☐	1.000		12192438.65		A	2.3
7	☐	1.000		11689059.55		A	0.5
8	☐	1.000		10776093.37		A	2.3

115 In (ISTD) [He]

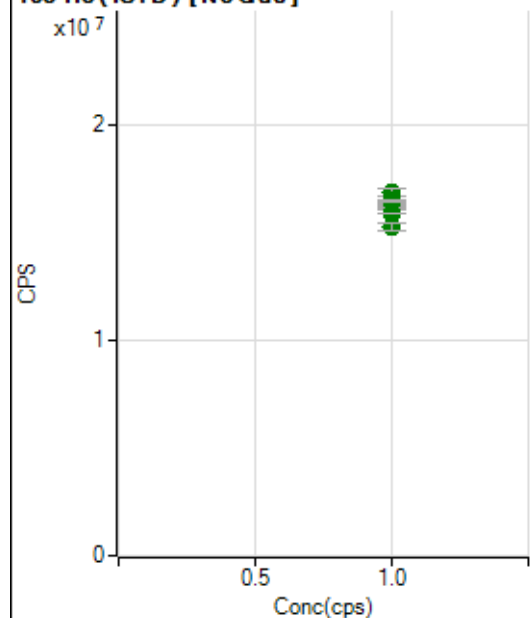
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3766397.17		A	0.7
2	☐	1.000		3812432.16		A	1.0
3	☐	1.000		3761310.06		A	1.0
4	☐	1.000		3690032.12		A	0.8
5	☐	1.000		3646671.77		A	1.1
6	☐	1.000		3560077.67		A	0.5
7	☐	1.000		3538888.29		A	0.8
8	☐	1.000		3224999.00		A	0.5

159 Tb (ISTD) [No Gas]

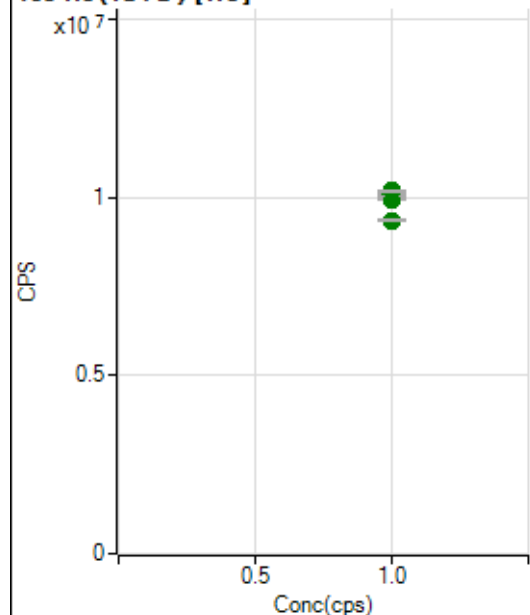
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16677524.33		A	1.3
2	☐	1.000		16477944.06		A	0.2
3	☐	1.000		16702954.89		A	0.4
4	☐	1.000		16590368.09		A	0.9
5	☐	1.000		16314327.26		A	1.4
6	☐	1.000		17156000.02		A	1.8
7	☐	1.000		16674439.06		A	0.2
8	☐	1.000		15671947.41		A	2.3

159 Tb (ISTD) [He]

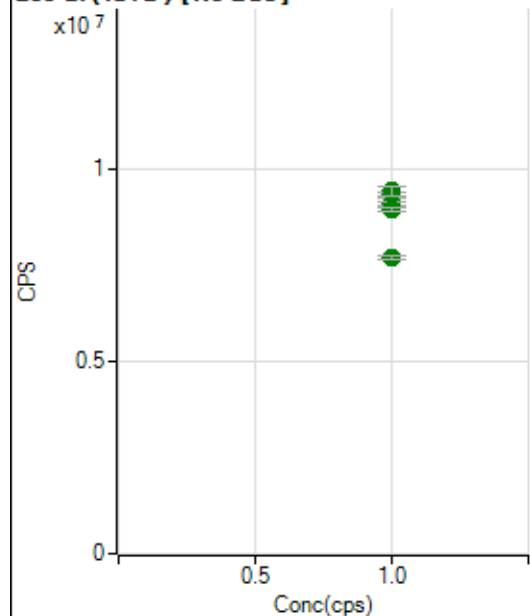
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9951428.12		A	0.4
2	☐	1.000		10151040.06		A	0.8
3	☐	1.000		9974742.70		A	0.6
4	☐	1.000		9930673.32		A	1.3
5	☐	1.000		10051252.77		A	1.3
6	☐	1.000		9970705.82		A	1.0
7	☐	1.000		9982122.28		A	0.9
8	☐	1.000		9319763.40		A	0.2

165 Ho (ISTD) [No Gas]

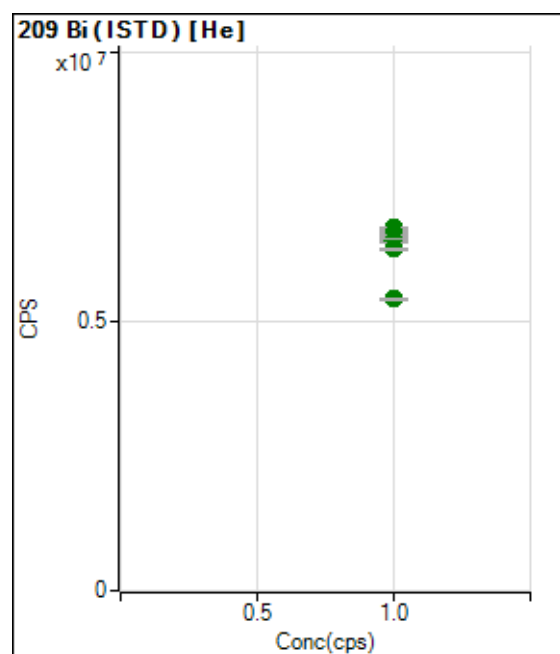
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16156203.65		A	0.2
2	☐	1.000		16163657.40		A	0.5
3	☐	1.000		16326099.34		A	0.4
4	☐	1.000		16089667.54		A	0.2
5	☐	1.000		15889302.68		A	0.4
6	☐	1.000		16831370.58		A	2.3
7	☐	1.000		16466689.20		A	0.7
8	☐	1.000		15245615.05		A	2.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9952792.21		A	0.3
2	☐	1.000		10130192.49		A	0.4
3	☐	1.000		10063097.07		A	0.8
4	☐	1.000		10078652.42		A	1.5
5	☐	1.000		10152413.46		A	1.1
6	☐	1.000		10119879.36		A	1.1
7	☐	1.000		10191600.54		A	0.4
8	☐	1.000		9358846.25		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9274562.50		A	0.8
2	☐	1.000		9354952.29		A	0.7
3	☐	1.000		9288416.25		A	0.4
4	☐	1.000		9274652.57		A	0.7
5	☐	1.000		9101947.64		A	1.1
6	☐	1.000		9445532.98		A	2.6
7	☐	1.000		8950006.25		A	1.3
8	☐	1.000		7711178.84		A	1.4



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6616585.60		A	0.6
2	☐	1.000		6731141.85		A	0.6
3	☐	1.000		6650349.62		A	0.4
4	☐	1.000		6598763.58		A	0.5
5	☐	1.000		6478158.03		A	0.2
6	☐	1.000		6488085.46		A	0.8
7	☐	1.000		6337899.07		A	0.7
8	☐	1.000		5408317.28		A	0.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7091523 MS.b

Acq. Date-Time 2023-09-15 11:28:00

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		10616	106158.77			1.340	5.000
24		410839	4108386.69			1.746	5.000
25		54588	545884.58			2.079	5.000
26		64026	640258.22			3.867	5.000
59		94984	949838.62			2.470	5.000
113		13481	134813.76			1.093	5.000
115		166958	1669582.03			1.359	5.000
206		95441	954409.09			2.841	5.000
207		80024	800240.11			1.529	5.000
208		205372	2053721.67			0.776	5.000
220		0	3.50			20.203	

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

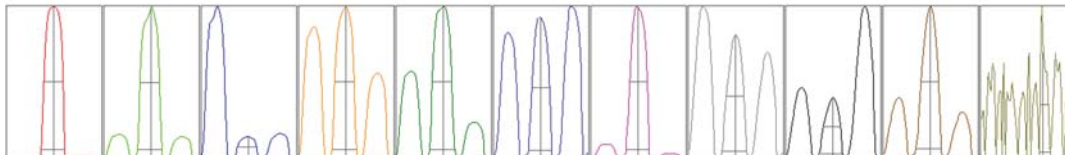
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10373	10713	10688	10700	10606
24	398214	415047	412491	415490	412952
25	52609	55397	54701	55062	55174
26	59601	65162	65031	65291	65045
59	90842	96266	96278	96165	95369
113	13234	13629	13534	13512	13497
115	163309	169523	166939	167280	167739
206	94089	97783	97338	96674	91321
207	77973	81076	80625	80567	79880
208	203083	207430	206105	205016	205228

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	18295.95	9.00	8.90 - 9.10	
24	715833.17	24.00	23.90 - 24.10	
25	96224.43	25.00	24.90 - 25.10	
26	111346.05	26.00	25.90 - 26.10	
59	161398.98	59.00	58.90 - 59.10	
113	25365.21	113.00	112.90 - 113.10	
115	313533.04	115.00	114.90 - 115.10	
206	180692.82	206.00	205.90 - 206.10	
207	154866.94	207.00	206.90 - 207.10	
208	391417.48	208.00	207.90 - 208.10	
220	0.55	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.731	0.900	
24	0.60	0.773	0.900	
25	0.59	0.705	0.900	
26	0.60	0.778	0.900	
59	0.60	0.797	0.900	
113	0.54	0.732	0.900	
115	0.54	0.733	0.900	
206	0.55	0.779	0.900	
207	0.54	0.741	0.900	
208	0.54	0.809	0.900	
220	0.27	0.342		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.4 V	Deflect	14.8 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 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	131	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.18		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2270 V	Pulse HV	1376 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		30906	309056.69			0.392	
89		347814	3478139.94			1.174	
205		77136	771359.52			0.514	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	30820	30892	30766	31064	30987
89	352163	342824	349422	350476	344185
205	77293	76724	76863	77732	77068

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-120.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 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	131	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.18		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2270 V	Pulse HV	1376 V
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