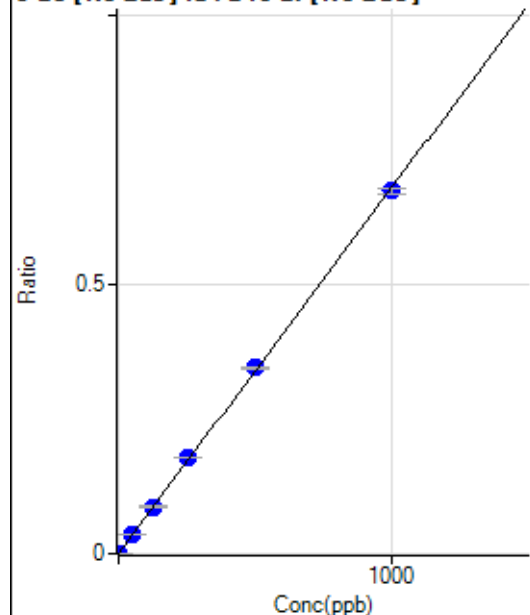


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8112020C.b\
Analysis File: P8112020C .batch.bin
DA Date-Time: 2020-11-21 01:04:47
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB P8112020C.D	S00	2020-11-20 18:41:37
2	004CALS P8112020C.D	S02	2020-11-20 18:44:49
3	005CALS P8112020C.D	S03	2020-11-20 18:48:00
4	006CALS P8112020C.D	S04	2020-11-20 18:51:12
5	007CALS P8112020C.D	S05	2020-11-20 18:54:16
6	008CALS P8112020C.D	S06	2020-11-20 18:57:17
7	011CALS P8112020C.D	S07	2020-11-20 19:08:04
8	012CALS P8112020C.D	S08	2020-11-20 19:11:04

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	270.62	0.0003	P	3.2
2	☐	1.000	0.935	973.18	0.0009	P	2.4
3	☐	50.000	52.010	38423.46	0.0355	P	1.8
4	☐	125.000	127.319	95288.38	0.0866	P	5.3
5	☐	250.000	261.679	190232.81	0.1777	P	1.0
6	☐	500.000	509.429	384244.36	0.3457	P	0.9
7	☐	1000.000	991.975	749048.56	0.6729	P	1.7
8	☐			2253.07	0.0021	P	4.0

$$y = 6.7811\text{E-}004 * x + 2.5926\text{E-}004$$

$$R = 0.9999$$

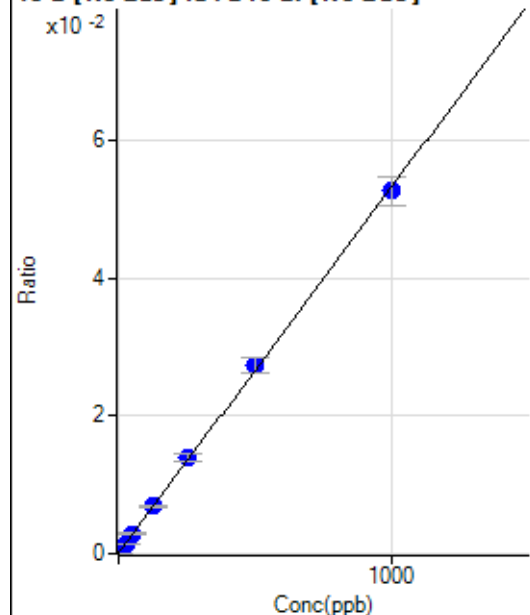
$$DL = 0.03721$$

$$BEC = 0.3823$$

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	79.99	0.0001	P	7.0
2	☐	25.000	23.851	1465.12	0.0013	P	10.6
3	☐	50.000	52.511	3101.73	0.0029	P	6.9
4	☐	125.000	128.879	7633.82	0.0069	P	3.7
5	☐	250.000	261.508	14969.37	0.0140	P	8.6
6	☐	500.000	513.485	30413.34	0.0274	P	8.1
7	☐	1000.000	989.799	58663.00	0.0527	P	8.1
8	☐			8501.47	0.0079	P	3.3

$$y = 5.3139\text{E-}005 * x + 7.6651\text{E-}005$$

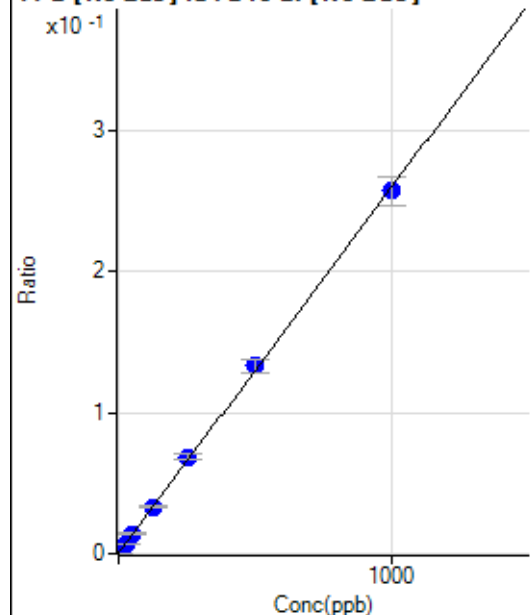
$$R = 0.9998$$

$$DL = 0.3035$$

$$BEC = 1.442$$

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	376.60	0.0004	P	9.1
2	☐	25.000	23.558	7051.66	0.0065	P	8.3
3	☐	50.000	52.073	14999.37	0.0139	P	8.3
4	☐	125.000	127.005	36703.08	0.0333	P	4.4
5	☐	250.000	263.424	73539.56	0.0687	P	6.3
6	☐	500.000	511.895	147912.74	0.1331	P	7.8
7	☐	1000.000	990.378	286364.65	0.2571	P	8.1
8	☐			41299.66	0.0384	P	3.4

$$y = 2.5926\text{E-}004 * x + 3.6160\text{E-}004$$

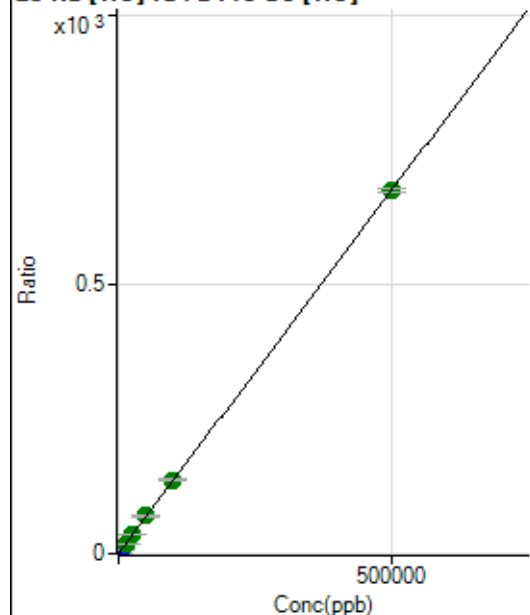
$$R = 0.9998$$

$$DL = 0.3816$$

$$BEC = 1.395$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	28528.47	0.3283	P	1.0
2	☐	500.000	509.778	88590.82	1.0161	P	1.9
3	☐	5000.000	5670.499	665904.20	7.9793	P	11.4
4	☐	12500.000	13026.926	1613350.70	17.9050	A	0.7
5	☐	25000.000	25403.820	3142949.90	34.6047	A	1.1
6	☐	50000.000	51578.774	6357416.38	69.9216	A	3.3
7	☐	100000.00	101460.70	12541103.75	137.2254	A	1.2
8	☐	500000.00	499509.90	60308147.88	674.2982	A	1.1

$$y = 0.0013 * x + 0.3283$$

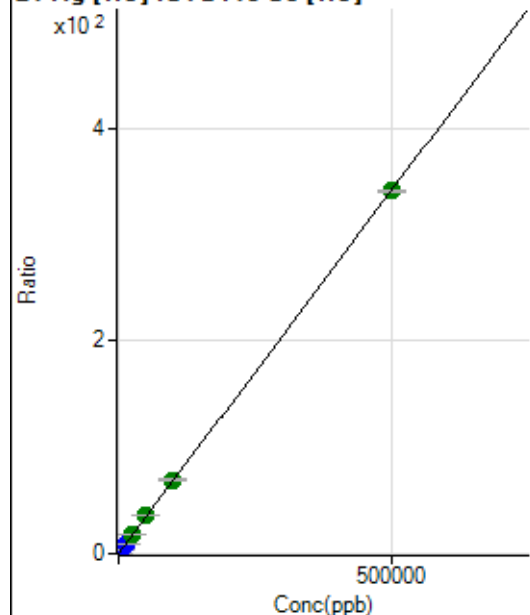
$$R = 1.0000$$

$$DL = 7.097$$

$$BEC = 243.3$$

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	605.59	0.0070	P	11.6
2	☐	500.000	499.465	30329.43	0.3480	P	3.9
3	☐	5000.000	5723.849	326540.10	3.9147	P	12.2
4	☐	12500.000	13182.666	811597.72	9.0070	P	1.0
5	☐	25000.000	25406.206	1575987.32	17.3522	A	1.8
6	☐	50000.000	52327.240	3249166.83	35.7316	A	2.2
7	☐	100000.00	101613.62	6340743.76	69.3801	A	0.8
8	☐	500000.00	499399.93	30494805.89	340.9547	A	0.9

$$y = 6.8271\text{E-}004 * x + 0.0070$$

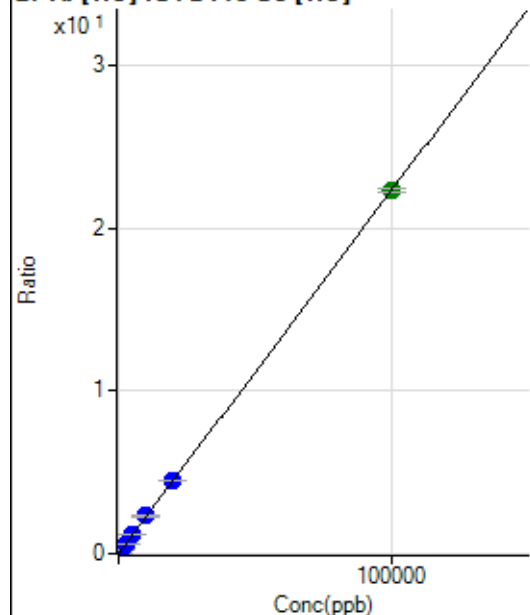
$$R = 1.0000$$

$$DL = 3.551$$

$$BEC = 10.21$$

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	414.54	0.0048	P	7.3
2	☐	20.000	21.495	833.67	0.0096	P	6.9
3	☐	1000.000	1103.978	20927.78	0.2508	P	11.7
4	☐	2500.000	2565.837	51958.76	0.5766	P	0.6
5	☐	5000.000	5093.104	103530.93	1.1399	P	1.1
6	☐	10000.000	10354.246	210296.49	2.3125	P	1.5
7	☐	20000.000	20285.001	413621.96	4.5258	P	0.5
8	☐	100000.00	99900.234	1991880.35	22.2701	A	1.0

$$y = 2.2288\text{E-}004 * x + 0.0048$$

$$R = 1.0000$$

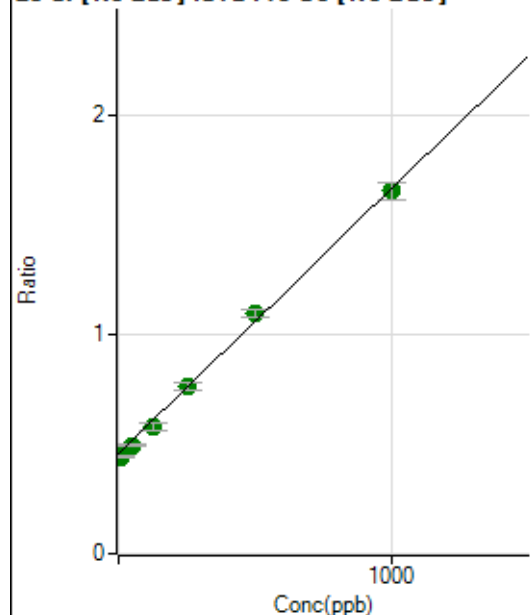
$$DL = 4.678$$

$$BEC = 21.4$$

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	991775.11	0.4554	A	4.0
2	☐	10.000	-10.602	1014067.11	0.4426	A	1.6
3	☐	50.000	31.227	1137690.26	0.4932	A	1.0
4	☐	125.000	100.824	1389251.19	0.5775	A	6.4
5	☐	250.000	253.462	1793713.69	0.7622	A	4.6
6	☐	500.000	525.785	2567406.33	1.0918	A	3.2
7	☐	1000.000	990.409	3836666.15	1.6542	A	4.9
8	☐			1444444.68	0.6328	A	12.4

$$y = 0.0012 * x + 0.4554$$

$$R = 0.9990$$

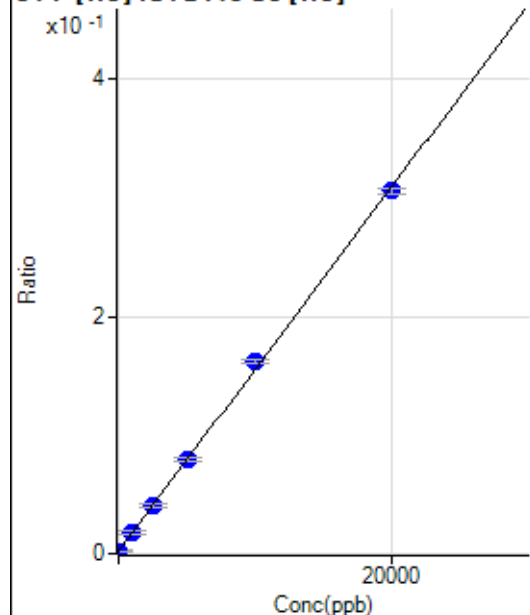
$$DL = 45.37$$

$$BEC = 376.3$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	10.615	194.45	0.0022	P	31.7
2	☐	0.000	-10.615	166.67	0.0019	P	7.2
3	☐	1000.000	1038.637	1500.12	0.0180	P	15.0
4	☐	2500.000	2491.352	3628.33	0.0403	P	7.2
5	☐	5000.000	4994.508	7143.66	0.0787	P	4.2
6	☐	10000.000	10413.458	14707.79	0.1617	P	2.1
7	☐	20000.000	19793.793	27927.34	0.3056	P	1.4
8	☐			286.12	0.0032	P	19.3

$$y = 1.5333E-005 * x + 0.0021$$

$$R = 0.9997$$

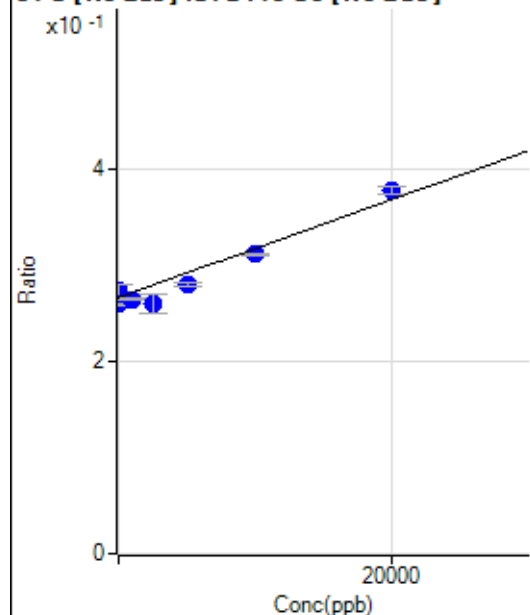
$$DL = 82.77$$

$$BEC = 135.2$$

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	1354.948	594470.10	0.2731	P	4.6
2	☐	0.000	-1354.948	594101.76	0.2593	P	0.9
3	☐	1000.000	-481.534	608274.57	0.2637	P	0.8
4	☐	2500.000	-1302.194	623990.41	0.2596	P	7.7
5	☐	5000.000	2694.524	658636.81	0.2799	P	1.3
6	☐	10000.000	8728.481	730038.69	0.3105	P	0.5
7	☐	20000.000	21761.480	873527.49	0.3767	P	2.1
8	☐			574159.14	0.2510	P	9.3

$$y = 5.0779\text{E-}006 * x + 0.2662$$

$$R = 0.9779$$

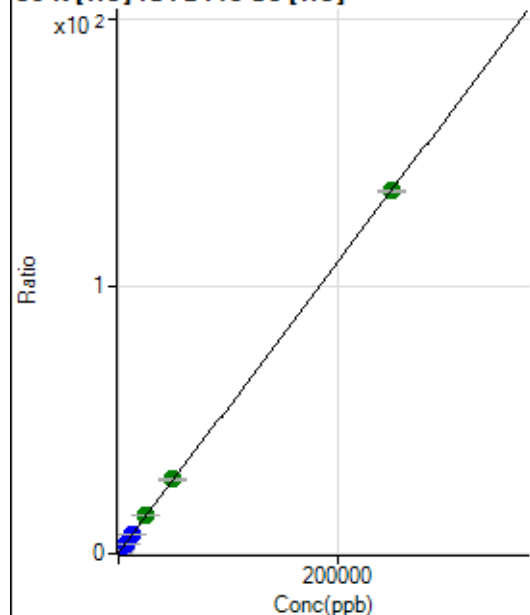
$$DL = 4393$$

$$BEC = 5.242\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27457.23	0.3160	P	2.6
2	☐	500.000	490.621	50706.33	0.5816	P	2.2
3	☐	2500.000	2809.522	153453.46	1.8373	P	10.2
4	☐	6250.000	6563.198	348702.12	3.8699	P	0.5
5	☐	12500.000	12841.992	660273.23	7.2698	P	1.1
6	☐	25000.000	26045.563	1311278.43	14.4194	A	1.6
7	☐	50000.000	50711.804	2538421.72	27.7759	A	2.1
8	☐	250000.00	249725.07	12122694.97	135.5396	A	0.7

$$y = 5.4149\text{E-}004 * x + 0.3160$$

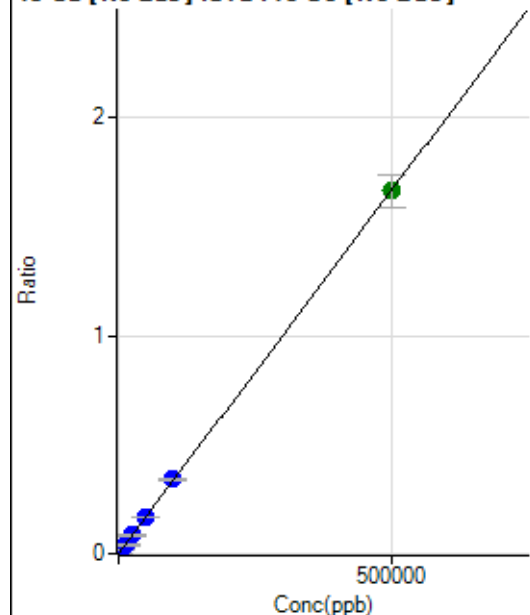
$$R = 1.0000$$

$$DL = 44.91$$

$$BEC = 583.5$$

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	289.97	0.0001	P	12.8
2	☐	500.000	483.613	4001.33	0.0017	P	0.4
3	☐	5000.000	5062.184	39243.07	0.0170	P	1.3
4	☐	12500.000	12179.652	97966.75	0.0408	P	7.6
5	☐	25000.000	25126.761	197497.17	0.0839	P	2.3
6	☐	50000.000	51132.722	401239.54	0.1707	P	0.3
7	☐	100000.00	102193.01	790627.11	0.3409	P	2.2
8	☐	500000.00	499449.18	3809839.24	1.6657	A	9.3

$$y = 3.3348\text{E-}006 * x + 1.3351\text{E-}004$$

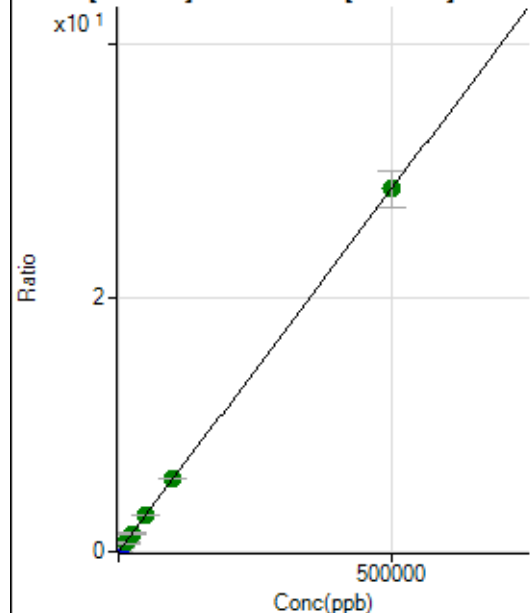
$$R = 1.0000$$

$$DL = 15.39$$

$$BEC = 40.04$$

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	21882.88	0.0100	P	3.1
2	☐	500.000	472.590	84815.21	0.0370	P	0.8
3	☐	5000.000	5073.629	691034.30	0.2996	P	0.8
4	☐	12500.000	12136.811	1689854.57	0.7027	A	7.4
5	☐	25000.000	24911.902	3369763.94	1.4318	A	1.7
6	☐	50000.000	49703.137	6693181.39	2.8468	A	0.7
7	☐	100000.00	100104.94	13274739.64	5.7233	A	1.6
8	☐	500000.00	500021.47	65254544.12	28.5478	A	10.3

$$y = 5.7073\text{E-}005 * x + 0.0100$$

$$R = 1.0000$$

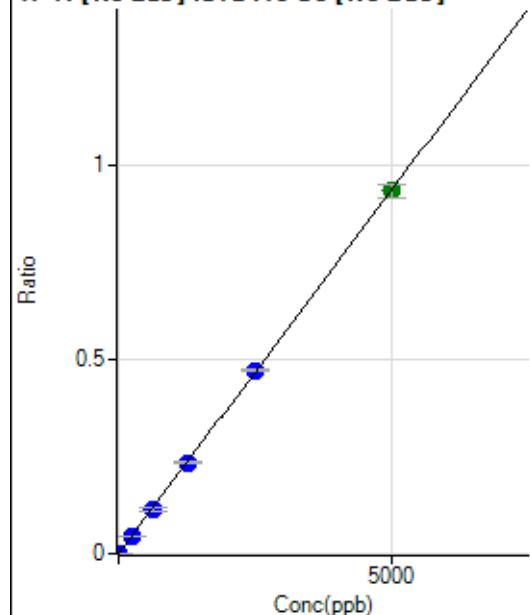
$$DL = 16.54$$

$$BEC = 176$$

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	455.58	0.0002	P	7.2
2	☐	5.000	4.537	2422.50	0.0011	P	8.6
3	☐	250.000	249.308	107963.74	0.0468	P	0.3
4	☐	625.000	609.603	274409.82	0.1142	P	7.8
5	☐	1250.000	1253.763	552028.08	0.2346	P	1.4
6	☐	2500.000	2519.098	1107622.96	0.4711	P	1.1
7	☐	5000.000	4991.470	2163849.59	0.9332	A	3.4
8	☐			5659.59	0.0025	P	13.4

$$y = 1.8692\text{E-}004 * x + 2.0897\text{E-}004$$

$$R = 1.0000$$

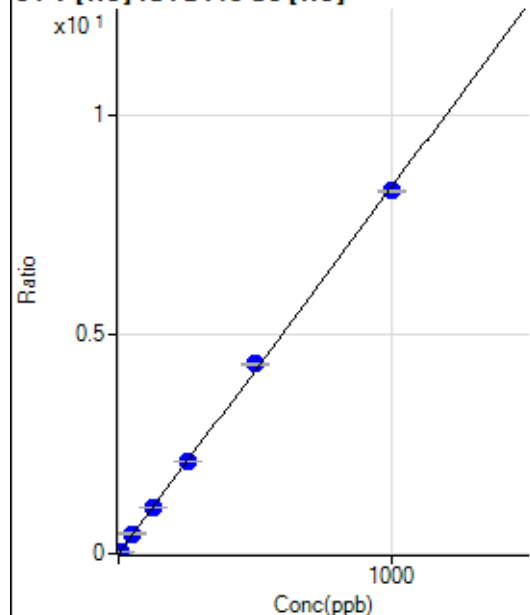
$$DL = 0.2399$$

$$BEC = 1.118$$

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	66.67	0.0008	P	5.2
2	☐	5.000	4.854	3600.49	0.0413	P	2.4
3	☐	50.000	54.198	37833.36	0.4530	P	10.3
4	☐	125.000	127.336	95812.51	1.0633	P	0.6
5	☐	250.000	252.197	191209.56	2.1052	P	0.8
6	☐	500.000	518.015	393169.56	4.3234	P	1.5
7	☐	1000.000	989.942	755033.12	8.2614	P	0.3
8	☐			1820.13	0.0203	P	4.9

$$y = 0.0083 * x + 7.6717\text{E-}004$$

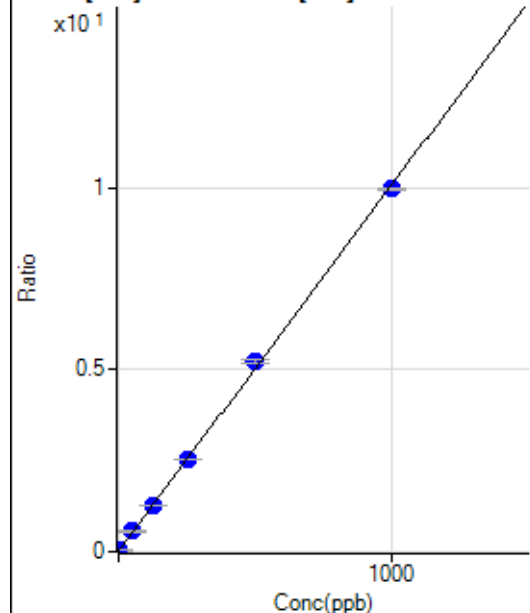
$$R = 0.9998$$

$$DL = 0.01446$$

$$BEC = 0.09194$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	817.81	0.0094	P	12.9
2	☐	2.000	1.916	2499.13	0.0287	P	5.4
3	☐	50.000	55.361	47241.07	0.5658	P	10.7
4	☐	125.000	126.828	115702.00	1.2840	P	1.1
5	☐	250.000	252.383	231229.53	2.5459	P	0.6
6	☐	500.000	517.609	473904.62	5.2114	P	1.9
7	☐	1000.000	990.103	910253.13	9.9600	P	0.8
8	☐			10840.85	0.1212	P	1.2

$$y = 0.0101 * x + 0.0094$$

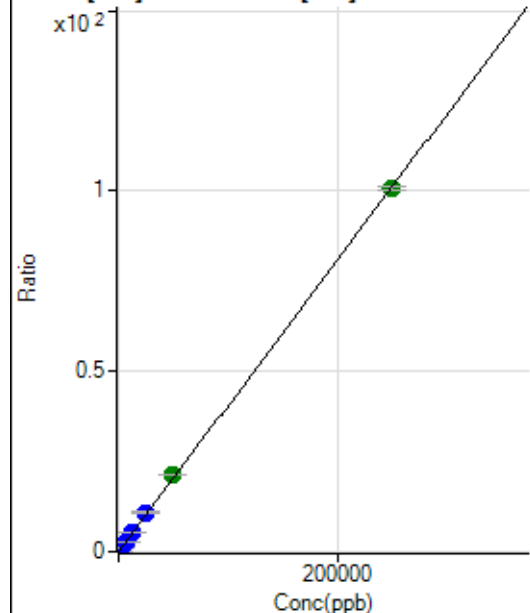
$$R = 0.9998$$

$$DL = 0.3623$$

$$BEC = 0.9367$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	466.68	0.0054	P	10.3
2	☐	50.000	52.993	2333.56	0.0268	P	1.6
3	☐	2500.000	2859.429	96748.13	1.1597	P	12.0
4	☐	6250.000	6612.708	241028.80	2.6749	P	0.5
5	☐	12500.000	13191.006	484141.05	5.3306	P	1.4
6	☐	25000.000	26851.537	986148.36	10.8453	P	2.7
7	☐	50000.000	52846.936	1950241.49	21.3396	A	1.4
8	☐	250000.00	249198.24	8998165.36	100.6062	A	1.2

$$y = 4.0370E-004 * x + 0.0054$$

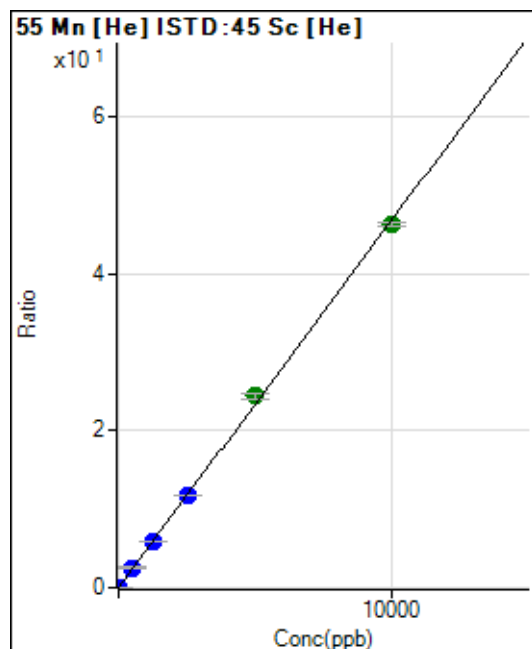
$$R = 0.9999$$

$$DL = 4.123$$

$$BEC = 13.3$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	117.78	0.0014	P	4.5
2	☐	1.000	0.934	498.90	0.0057	P	8.3
3	☐	500.000	547.820	213934.45	2.5642	P	11.8
4	☐	1250.000	1275.221	537672.45	5.9671	P	0.4
5	☐	2500.000	2518.583	1070257.89	11.7837	P	0.8
6	☐	5000.000	5219.261	2220275.80	24.4180	A	2.8
7	☐	10000.000	9880.180	4224318.27	46.2225	A	1.0
8	☐			13597.67	0.1520	P	0.3

$$y = 0.0047 * x + 0.0014$$

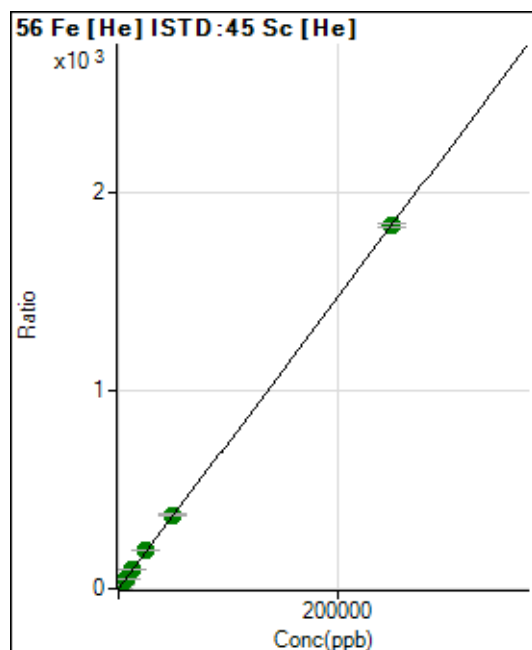
$$R = 0.9996$$

$$DL = 0.03908$$

$$BEC = 0.2897$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3268.94	0.0376	P	3.8
2	☐	50.000	50.407	35562.90	0.4079	P	1.5
3	☐	2500.000	2845.601	1747997.09	20.9398	A	11.0
4	☐	6250.000	6479.150	4291820.47	47.6298	A	0.7
5	☐	12500.000	12703.056	8478228.37	93.3471	A	0.9
6	☐	25000.000	26194.854	17500657.10	192.4502	A	1.9
7	☐	50000.000	50921.891	34188151.69	374.0811	A	0.2
8	☐	250000.00	249676.79	164036362.9	1,834.022	A	1.1

$$y = 0.0073 * x + 0.0376$$

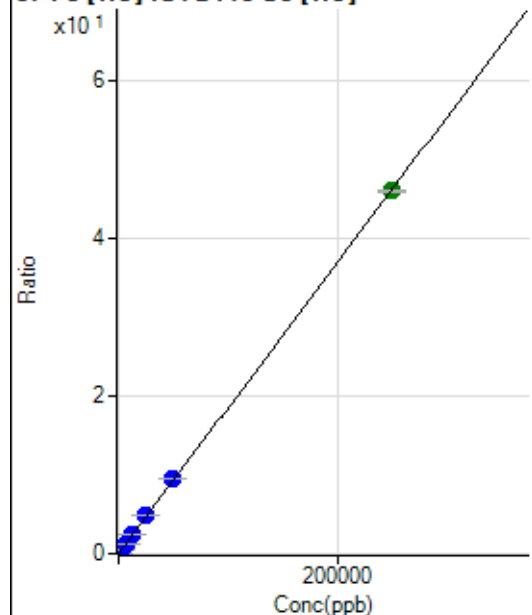
$$R = 1.0000$$

$$DL = 0.588$$

$$BEC = 5.121$$

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	114.82	0.0013	P	16.8
2	☐	50.000	51.543	944.49	0.0108	P	5.4
3	☐	2500.000	2814.048	43416.15	0.5202	P	11.3
4	☐	6250.000	6556.346	109048.65	1.2102	P	0.4
5	☐	12500.000	12769.946	213976.99	2.3559	P	0.8
6	☐	25000.000	26316.998	441385.24	4.8538	P	2.0
7	☐	50000.000	51235.852	863521.83	9.4485	P	0.3
8	☐	250000.00	249596.83	4116359.96	46.0236	A	0.7

$$y = 1.8439\text{E-}004 * x + 0.0013$$

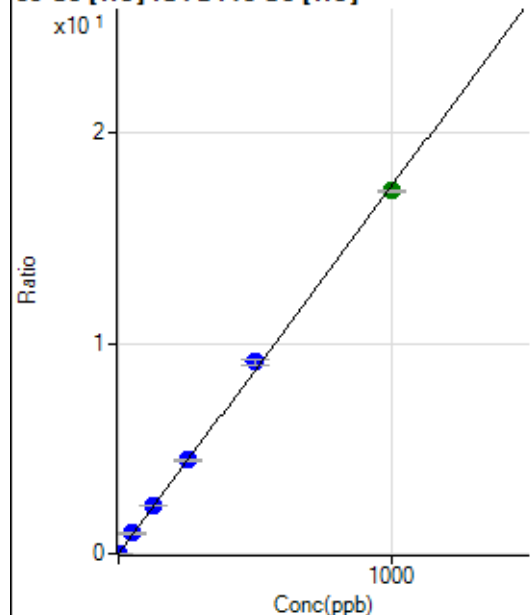
R = 1.0000

DL = 3.609

BEC = 7.163

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	301.12	0.0035	P	7.4
2	☐	1.000	0.982	1799.02	0.0206	P	2.8
3	☐	50.000	55.622	81369.67	0.9756	P	12.3
4	☐	125.000	129.162	203717.99	2.2609	P	1.0
5	☐	250.000	254.717	404642.65	4.4552	P	1.0
6	☐	500.000	520.846	828057.86	9.1064	P	2.3
7	☐	1000.000	987.596	1577790.32	17.2639	A	0.3
8	☐			6430.39	0.0719	P	0.5

$$y = 0.0175 * x + 0.0035$$

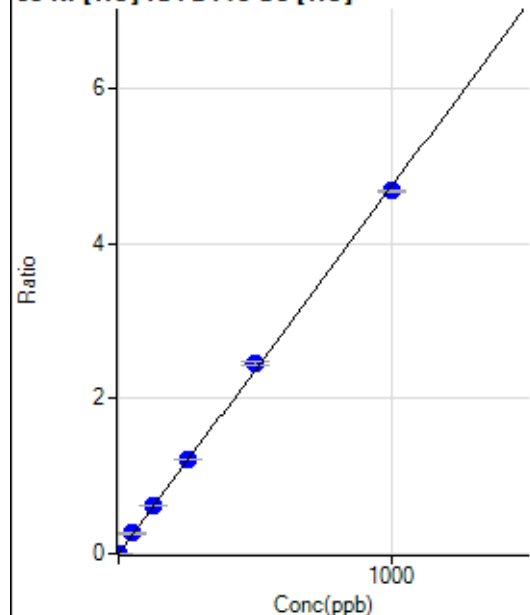
R = 0.9997

DL = 0.04412

BEC = 0.1983

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	156.67	0.0018	P	3.3
2	☐	1.000	1.019	578.91	0.0066	P	13.4
3	☐	50.000	56.234	22372.09	0.2679	P	10.7
4	☐	125.000	129.302	55300.21	0.6137	P	0.5
5	☐	250.000	255.023	109780.61	1.2087	P	0.9
6	☐	500.000	519.174	223583.25	2.4588	P	2.3
7	☐	1000.000	988.308	427621.83	4.6790	P	0.6
8	☐			4027.27	0.0450	P	3.1

$$y = 0.0047 * x + 0.0018$$

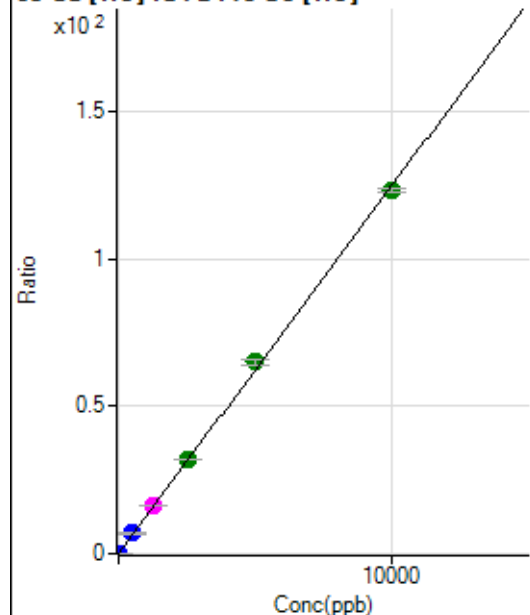
$$R = 0.9997$$

$$DL = 0.03752$$

$$BEC = 0.3809$$

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	532.74	0.0061	P	7.4
2	☐	2.000	1.901	2603.67	0.0298	P	5.6
3	☐	500.000	563.218	586709.57	7.0318	P	11.7
4	☐	1250.000	1308.441	1471235.26	16.3278	M	0.7
5	☐	2500.000	2554.288	2894462.16	31.8687	A	1.1
6	☐	5000.000	5210.776	5910415.84	65.0062	A	3.4
7	☐	10000.000	9870.574	11253293.23	123.1333	A	0.9
8	☐			30093.28	0.3365	P	1.8

$$y = 0.0125 * x + 0.0061$$

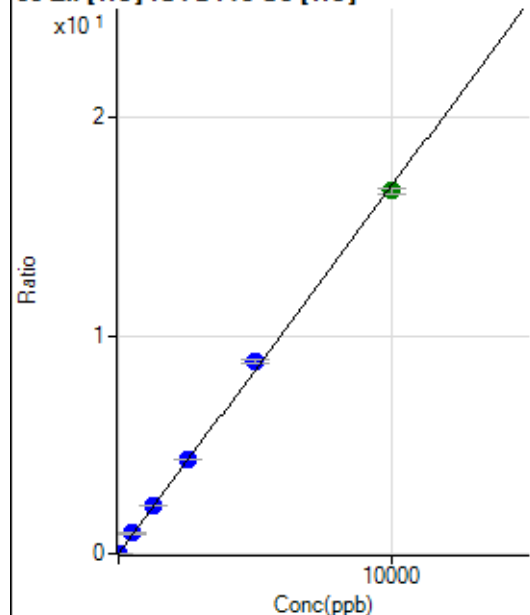
$$R = 0.9996$$

$$DL = 0.1087$$

$$BEC = 0.4914$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	98.89	0.0011	P	37.0
2	☐	2.000	2.008	394.45	0.0045	P	7.4
3	☐	500.000	561.031	79035.37	0.9474	P	12.0
4	☐	1250.000	1302.903	198112.45	2.1986	P	0.4
5	☐	2500.000	2552.506	391114.08	4.3063	P	1.2
6	☐	5000.000	5214.447	799867.55	8.7960	P	1.9
7	☐	10000.000	9869.985	1521477.41	16.6481	A	1.3
8	☐			7483.15	0.0837	P	1.4

$$y = 0.0017 * x + 0.0011$$

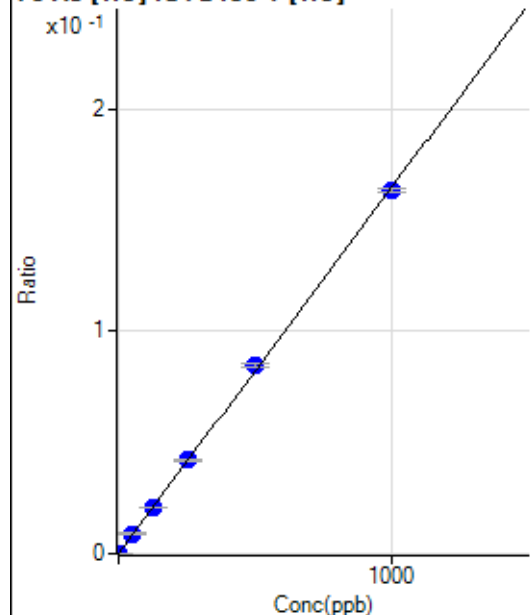
$$R = 0.9996$$

$$DL = 0.7482$$

$$BEC = 0.6746$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.67	0.0000	P	14.3
2	☐	1.000	0.945	128.68	0.0002	P	3.4
3	☐	50.000	54.224	5692.06	0.0090	P	11.7
4	☐	125.000	127.379	14425.13	0.0210	P	0.5
5	☐	250.000	255.151	28868.91	0.0420	P	1.5
6	☐	500.000	513.768	59103.93	0.0846	P	2.1
7	☐	1000.000	991.320	113521.97	0.1632	P	0.9
8	☐			306.37	0.0005	P	4.0

$$y = 1.6455E-004 * x + 4.0549E-005$$

$$R = 0.9998$$

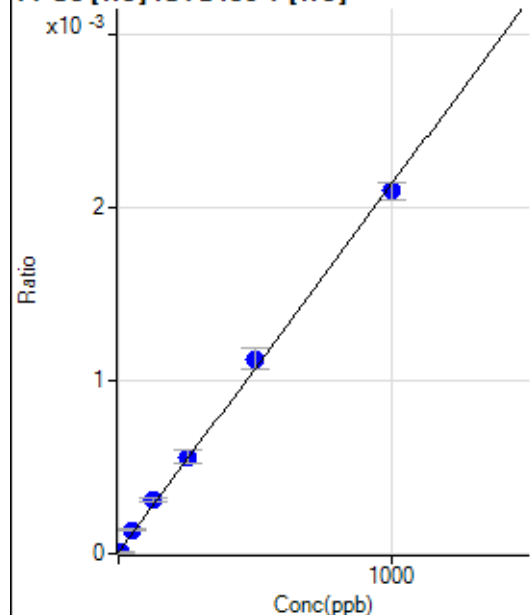
$$DL = 0.1054$$

$$BEC = 0.2464$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.55	0.0000	P	70.0
2	☐	5.000	-0.810	4.44	0.0000	P	42.3
3	☐	50.000	59.715	86.67	0.0001	P	6.4
4	☐	125.000	142.054	213.34	0.0003	P	8.6
5	☐	250.000	259.224	384.45	0.0006	P	12.8
6	☐	500.000	525.838	786.70	0.0011	P	10.3
7	☐	1000.000	982.187	1458.98	0.0021	P	5.0
8	☐			10.00	0.0000	P	33.3

$$y = 2.1266\text{E-}006 * x + 8.4750\text{E-}006$$

$$R = 0.9993$$

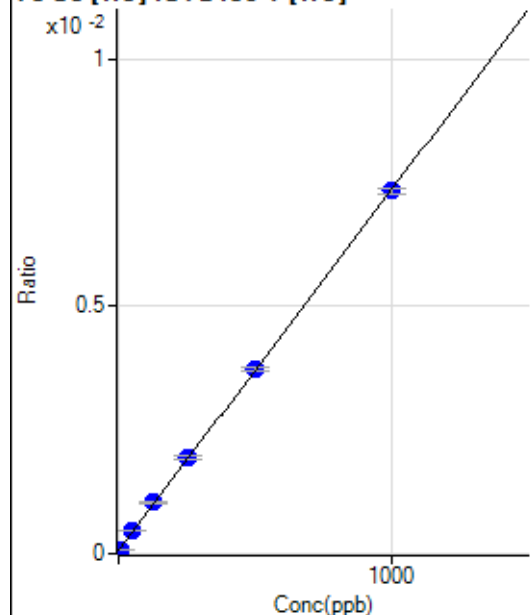
$$DL = 8.367$$

$$BEC = 3.985$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.34	0.0001	P	19.7
2	☐	5.000	3.714	62.01	0.0001	P	5.6
3	☐	50.000	54.639	297.37	0.0005	P	5.9
4	☐	125.000	133.196	714.09	0.0010	P	2.7
5	☐	250.000	256.613	1332.87	0.0019	P	5.4
6	☐	500.000	501.479	2604.84	0.0037	P	2.2
7	☐	1000.000	996.357	5107.11	0.0073	P	1.5
8	☐			59.34	0.0001	P	25.0

$$y = 7.2990\text{E-}006 * x + 6.7411\text{E-}005$$

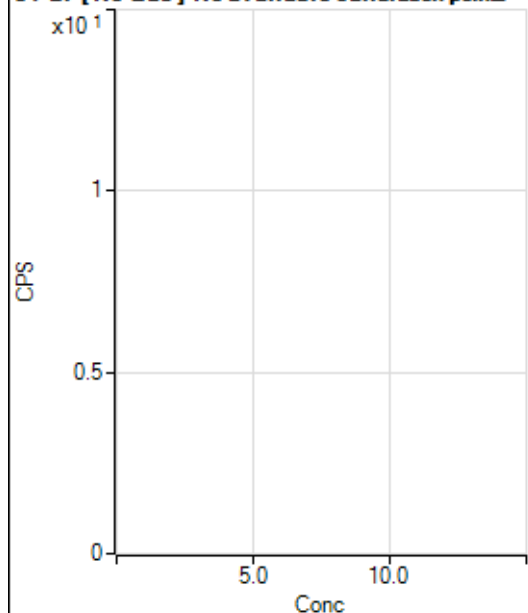
$$R = 0.9999$$

$$DL = 5.455$$

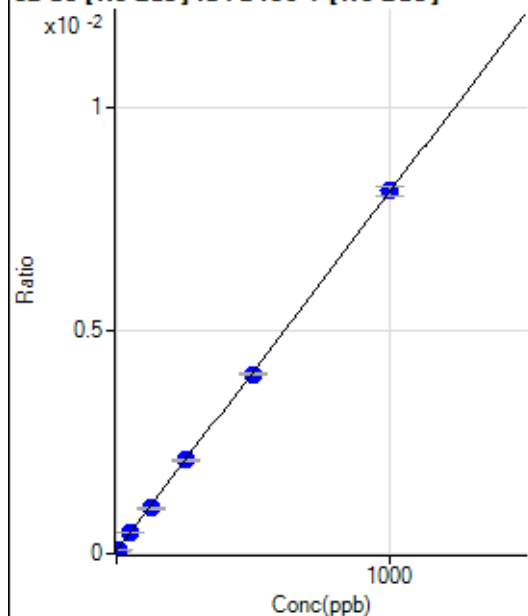
$$BEC = 9.236$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3003.42		P	3.5
2	☐			2863.25		P	4.6
3	☐			2953.36		P	2.4
4	☐			3010.10		P	2.8
5	☐			3180.33		P	10.4
6	☐			3317.15		P	1.2
7	☐			3156.93		P	7.4
8	☐			3647.57		P	7.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	391.90	0.0001	P	10.1
2	☐	5.000	4.323	612.05	0.0001	P	4.9
3	☐	50.000	49.502	2855.20	0.0005	P	1.8
4	☐	125.000	119.513	6611.49	0.0010	P	5.5
5	☐	250.000	252.223	12996.94	0.0021	P	1.2
6	☐	500.000	493.114	25587.26	0.0040	P	0.8
7	☐	1000.000	1003.601	49475.07	0.0081	P	2.7
8	☐			551.89	0.0001	P	8.9

$$y = 8.0345E-006 * x + 6.7343E-005$$

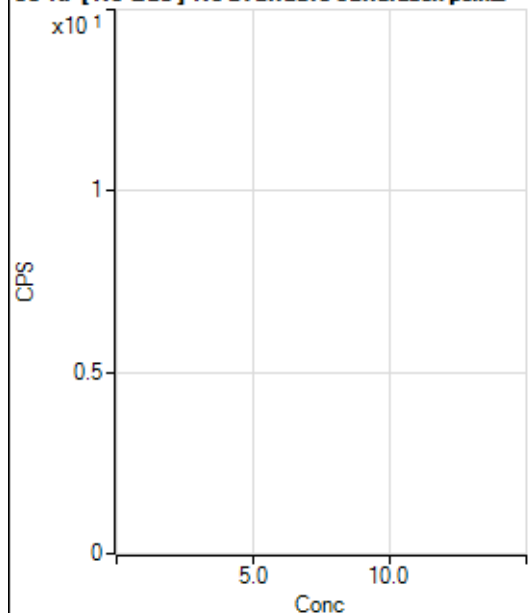
$$R = 0.9999$$

$$DL = 2.548$$

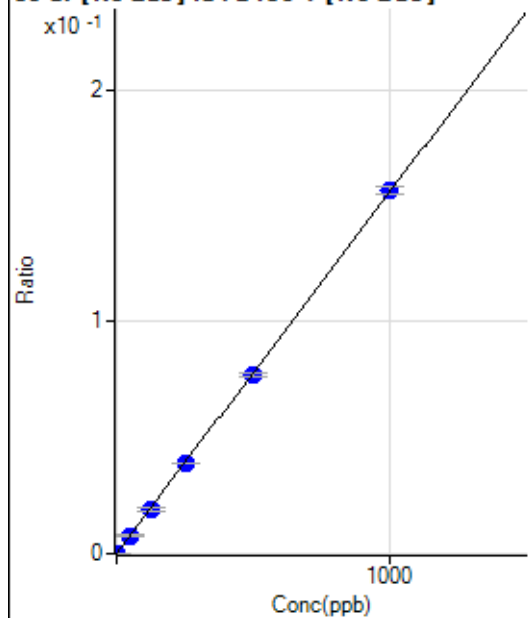
$$BEC = 8.382$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			343.34		P	7.0
2	☐			417.79		P	11.5
3	☐			400.01		P	5.2
4	☐			394.45		P	11.5
5	☐			428.90		P	12.9
6	☐			423.34		P	5.5
7	☐			417.79		P	7.2
8	☐			353.34		P	8.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	608.37	0.0001	P	2.0
2	☐	1.000	1.049	1605.70	0.0003	P	10.7
3	☐	50.000	49.459	47938.38	0.0078	P	1.9
4	☐	125.000	120.484	121298.04	0.0189	P	7.5
5	☐	250.000	249.035	241410.99	0.0389	P	0.7
6	☐	500.000	493.838	489084.81	0.0770	P	1.8
7	☐	1000.000	1003.914	952140.65	0.1565	P	2.2
8	☐			7785.71	0.0013	P	8.4

$$y = 1.5575E-004 * x + 1.0452E-004$$

$$R = 1.0000$$

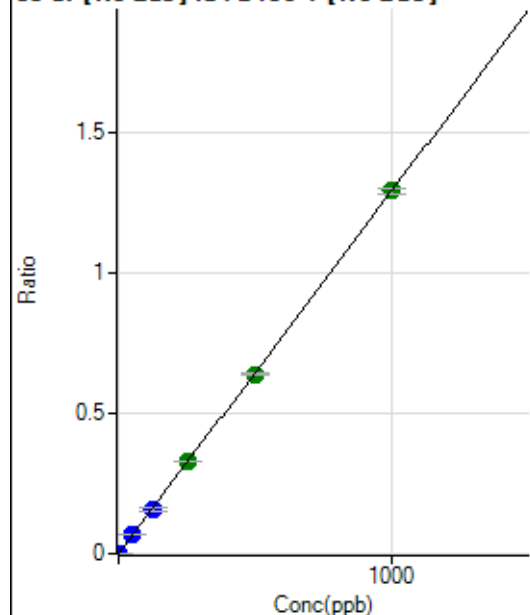
$$DL = 0.04111$$

$$BEC = 0.6711$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	555.58	0.0001	P	21.0
2	☐	1.000	0.976	8110.87	0.0014	P	3.0
3	☐	50.000	50.737	401913.76	0.0655	P	0.7
4	☐	125.000	122.977	1018877.05	0.1585	P	8.0
5	☐	250.000	255.278	2042022.05	0.3290	A	0.4
6	☐	500.000	495.419	4053853.48	0.6383	A	0.4
7	☐	1000.000	1001.187	7850077.34	1.2899	A	1.2
8	☐			62414.67	0.0104	P	7.4

$$y = 0.0013 * x + 9.5135E-005$$

$$R = 1.0000$$

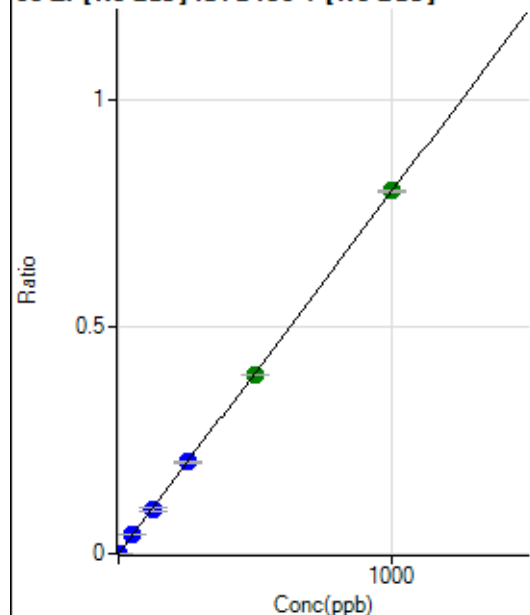
$$DL = 0.04655$$

$$BEC = 0.07385$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	213.90	0.0000	P	6.0
2	☐	1.000	0.971	4856.53	0.0008	P	0.4
3	☐	50.000	50.518	247129.19	0.0403	P	0.2
4	☐	125.000	122.067	625086.60	0.0972	P	6.8
5	☐	250.000	252.725	1249036.40	0.2012	P	0.7
6	☐	500.000	494.210	2498616.35	0.3935	A	0.6
7	☐	1000.000	1002.555	4857328.06	0.7981	A	0.7
8	☐			12378.02	0.0021	P	10.9

$$y = 7.9606E-004 * x + 3.6707E-005$$

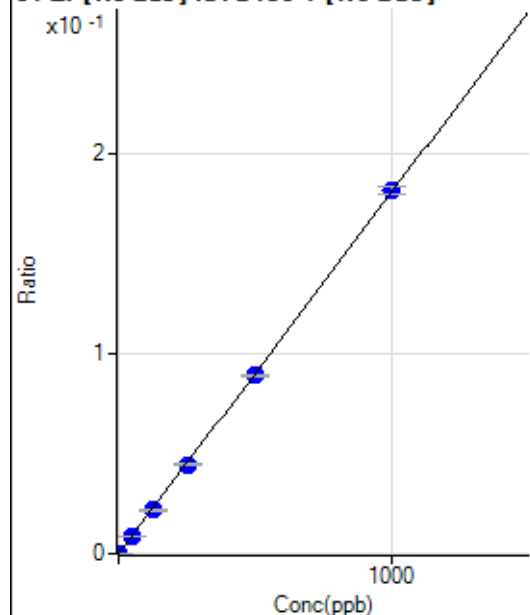
$$R = 1.0000$$

$$DL = 0.008288$$

$$BEC = 0.04611$$

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	75.00	0.0000	P	37.9
2	☐	1.000	0.941	1094.52	0.0002	P	4.4
3	☐	50.000	48.742	54097.26	0.0088	P	1.7
4	☐	125.000	120.428	139875.21	0.0217	P	6.5
5	☐	250.000	247.248	277078.68	0.0446	P	0.4
6	☐	500.000	493.807	566072.90	0.0891	P	0.7
7	☐	1000.000	1004.419	1103265.56	0.1813	P	2.1
8	☐			2797.58	0.0005	P	5.5

$$y = 1.8049\text{E-}004 * x + 1.2791\text{E-}005$$

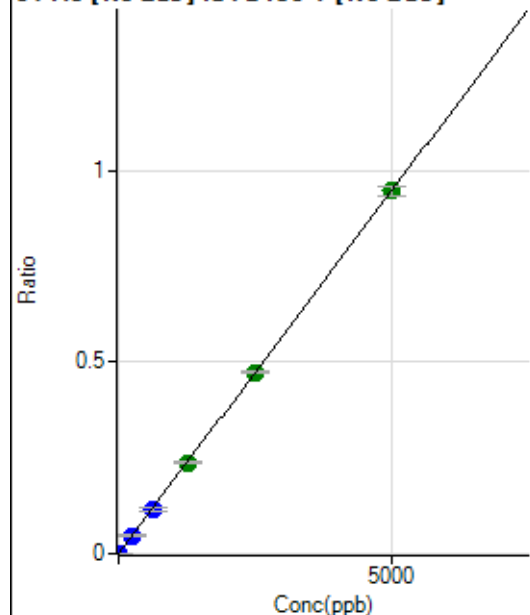
$$R = 1.0000$$

$$DL = 0.08068$$

$$BEC = 0.07087$$

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	97.23	0.0000	P	8.7
2	☐	5.000	5.071	5856.94	0.0010	P	4.7
3	☐	250.000	250.513	291262.50	0.0474	P	1.6
4	☐	625.000	608.973	741496.31	0.1153	P	6.6
5	☐	1250.000	1258.897	1479505.79	0.2384	A	0.6
6	☐	2500.000	2497.575	3002987.98	0.4729	A	0.8
7	☐	5000.000	5000.966	5761442.23	0.9468	A	2.3
8	☐			14941.70	0.0025	P	7.9

$$y = 1.8932\text{E-}004 * x + 1.6699\text{E-}005$$

$$R = 1.0000$$

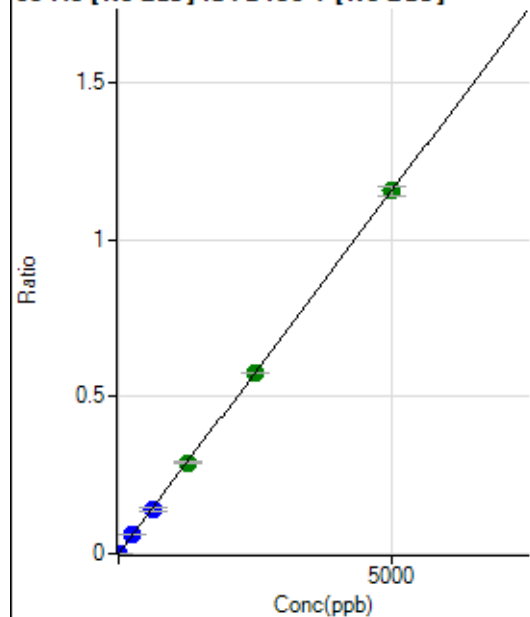
$$DL = 0.02289$$

$$BEC = 0.08821$$

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	27.78	0.0000	P	44.6
2	☐	5.000	5.065	7051.98	0.0012	P	2.7
3	☐	250.000	254.557	361533.18	0.0589	P	1.3
4	☐	625.000	612.038	910118.52	0.1416	P	7.4
5	☐	1250.000	1258.831	1807471.25	0.2912	A	1.5
6	☐	2500.000	2494.544	3664696.57	0.5770	A	0.4
7	☐	5000.000	5001.913	7040450.16	1.1570	A	2.6
8	☐			18818.70	0.0031	P	6.6

$$y = 2.3132\text{E-}004 * x + 4.7679\text{E-}006$$

$$R = 1.0000$$

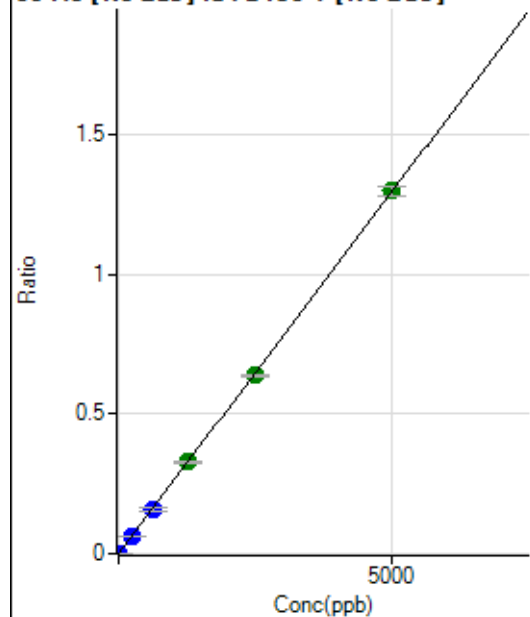
$$DL = 0.0276$$

$$BEC = 0.02061$$

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	41.67	0.0000	P	38.2
2	☐	5.000	4.732	7385.50	0.0012	P	3.0
3	☐	250.000	249.221	396009.18	0.0645	P	0.6
4	☐	625.000	607.298	1010660.54	0.1572	P	6.6
5	☐	1250.000	1267.086	2035265.35	0.3279	A	2.5
6	☐	2500.000	2460.221	4042991.19	0.6367	A	1.5
7	☐	5000.000	5017.870	7901857.47	1.2985	A	3.0
8	☐			21113.76	0.0035	P	7.8

$$y = 2.5878\text{E-}004 * x + 7.2166\text{E-}006$$

$$R = 0.9999$$

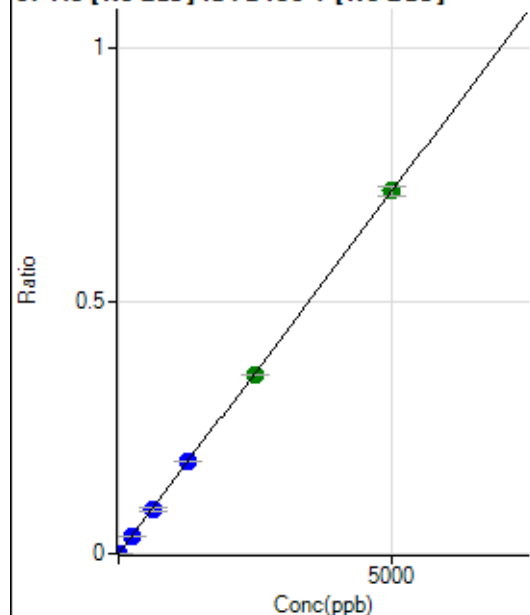
$$DL = 0.03195$$

$$BEC = 0.02789$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	116.
2	☐	5.000	4.800	4139.61	0.0007	P	1.3
3	☐	250.000	250.949	221035.28	0.0360	P	0.8
4	☐	625.000	603.864	556762.25	0.0866	P	7.8
5	☐	1250.000	1268.165	1129186.69	0.1819	P	1.0
6	☐	2500.000	2475.998	2255585.12	0.3552	A	0.4
7	☐	5000.000	5010.054	4373290.42	0.7187	A	2.3
8	☐			11499.53	0.0019	P	12.2

$$y = 1.4345\text{E-}004 * x + 1.9542\text{E-}006$$

$$R = 1.0000$$

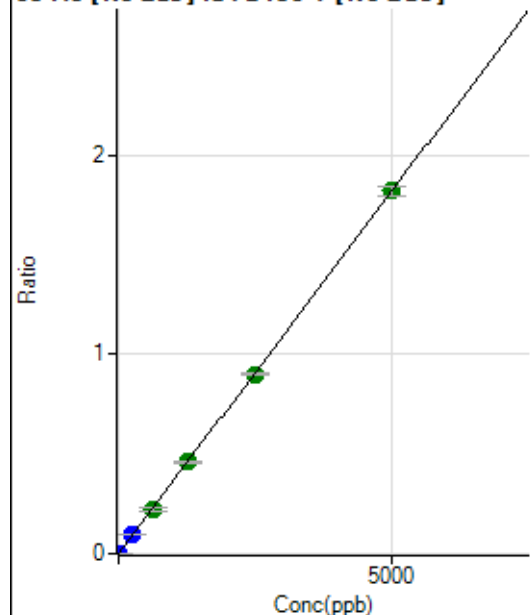
$$DL = 0.04764$$

$$BEC = 0.01362$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	5.000	5.062	11032.43	0.0018	P	4.1
3	☐	250.000	255.115	569198.20	0.0927	P	1.3
4	☐	625.000	604.064	1411468.01	0.2195	A	7.1
5	☐	1250.000	1266.782	2857585.44	0.4604	A	1.2
6	☐	2500.000	2479.554	5723046.09	0.9011	A	0.5
7	☐	5000.000	5008.389	11075440.27	1.8202	A	2.9
8	☐			29253.73	0.0049	P	8.3

$$y = 3.6342\text{E-}004 * x + 9.3727\text{E-}007$$

$$R = 1.0000$$

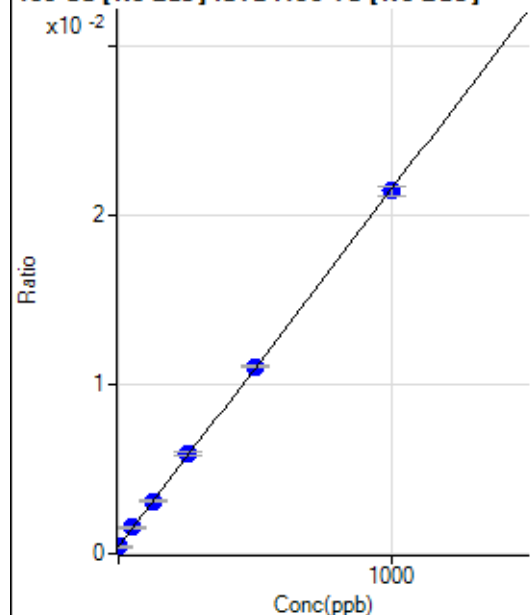
$$DL = 0.0067$$

$$BEC = 0.002579$$

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	1302.87	0.0004	P	1.1
2	☐	1.000	-0.452	1344.55	0.0004	P	8.0
3	☐	50.000	54.361	5173.33	0.0016	P	4.4
4	☐	125.000	127.252	10648.86	0.0031	P	2.3
5	☐	250.000	259.524	19514.23	0.0059	P	2.5
6	☐	500.000	503.752	37763.51	0.0111	P	1.6
7	☐	1000.000	995.245	71108.33	0.0214	P	3.0
8	☐			1469.56	0.0005	P	3.2

$$y = 2.1109\text{E-}005 * x + 4.1638\text{E-}004$$

$$R = 0.9999$$

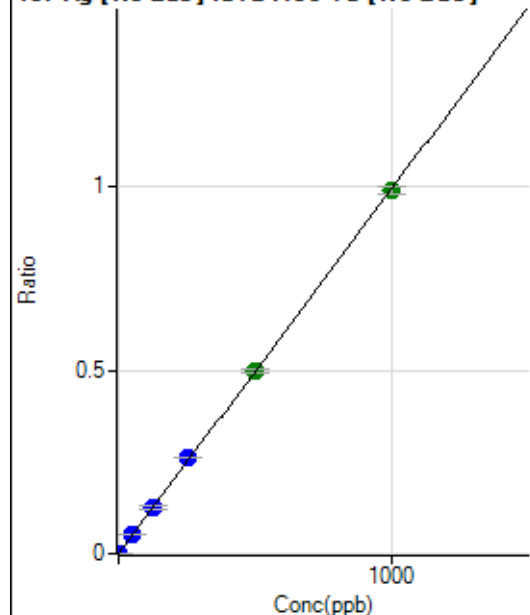
$$DL = 0.6402$$

$$BEC = 19.72$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	55.5
2	☐	1.000	1.047	3492.22	0.0011	P	4.8
3	☐	50.000	51.815	170303.42	0.0515	P	0.5
4	☐	125.000	127.358	433371.57	0.1265	P	7.3
5	☐	250.000	263.616	867005.43	0.2619	P	0.8
6	☐	500.000	502.551	1705818.57	0.4993	A	2.1
7	☐	1000.000	994.935	3280457.24	0.9884	A	2.0
8	☐			8669.65	0.0027	P	6.8

$$y = 9.9344\text{E-}004 * x + 1.5871\text{E-}005$$

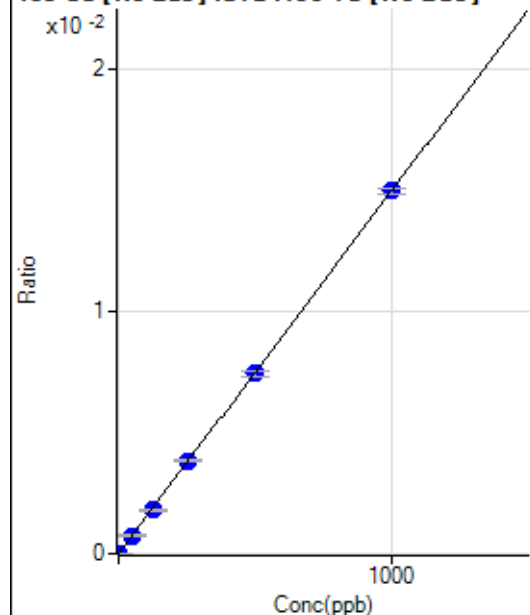
$$R = 0.9999$$

$$DL = 0.02659$$

$$BEC = 0.01598$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18.06	0.0000	P	40.0
2	☐	1.000	0.901	63.89	0.0000	P	8.6
3	☐	50.000	49.716	2478.03	0.0007	P	1.9
4	☐	125.000	121.394	6244.54	0.0018	P	4.6
5	☐	250.000	256.586	12722.67	0.0038	P	1.9
6	☐	500.000	496.853	25406.80	0.0074	P	2.8
7	☐	1000.000	1000.392	49669.58	0.0150	P	1.7
8	☐			163.89	0.0001	P	14.6

$$y = 1.4954\text{E-}005 * x + 5.8387\text{E-}006$$

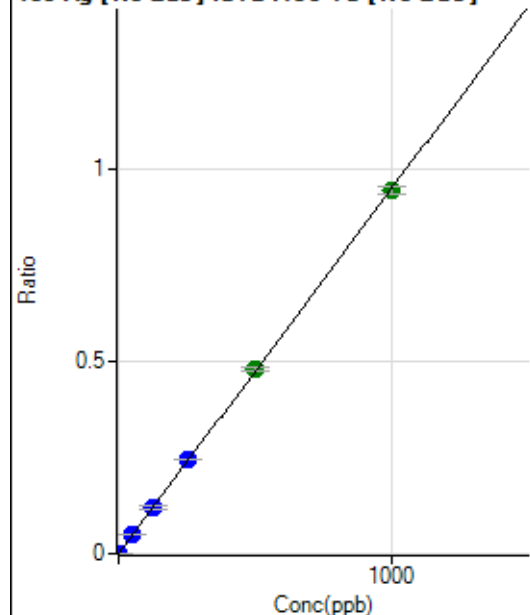
$$R = 1.0000$$

$$DL = 0.4691$$

$$BEC = 0.3905$$

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	25.00	0.0000	P	86.1
2	☐	1.000	0.953	3011.52	0.0009	P	7.8
3	☐	50.000	51.471	161244.08	0.0488	P	1.2
4	☐	125.000	125.658	407643.22	0.1190	P	7.0
5	☐	250.000	259.501	813605.52	0.2458	P	0.6
6	☐	500.000	506.252	1638151.61	0.4795	A	1.6
7	☐	1000.000	994.343	3125301.35	0.9417	A	2.2
8	☐			8361.09	0.0026	P	9.1

$$y = 9.4705\text{E-}004 * x + 7.8476\text{E-}006$$

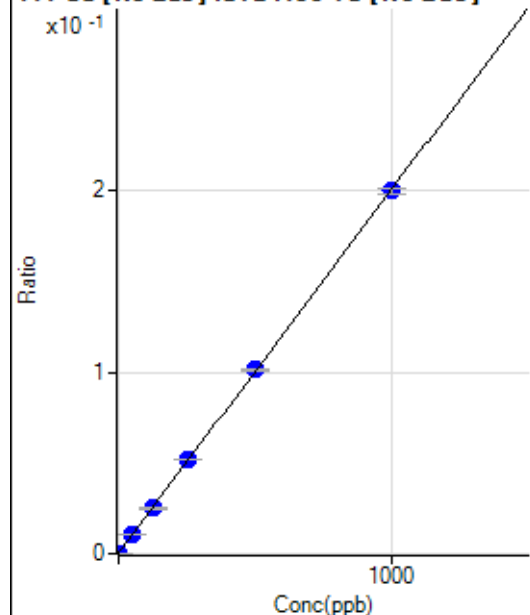
$$R = 0.9999$$

$$DL = 0.02141$$

$$BEC = 0.008286$$

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	1020.21	0.0003	P	2.2
2	☐	1.000	0.928	1692.33	0.0005	P	2.6
3	☐	50.000	50.568	34571.27	0.0105	P	1.7
4	☐	125.000	123.014	85527.51	0.0250	P	6.3
5	☐	250.000	256.476	171117.03	0.0517	P	0.7
6	☐	500.000	504.351	346243.06	0.1013	P	1.5
7	☐	1000.000	996.426	663362.08	0.1999	P	1.9
8	☐			2590.48	0.0008	P	7.3

$$y = 2.0027\text{E-}004 * x + 3.2607\text{E-}004$$

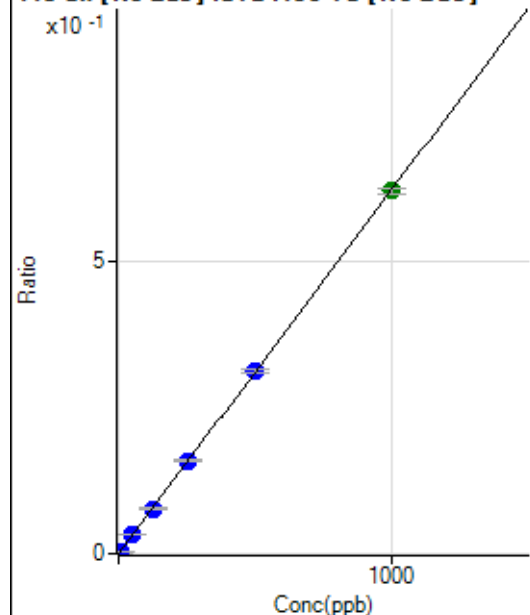
$$R = 1.0000$$

$$DL = 0.1052$$

$$BEC = 1.628$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	144.45	0.0000	P	19.0
2	☐	5.000	4.884	10215.22	0.0031	P	3.4
3	☐	50.000	50.829	104957.27	0.0317	P	0.9
4	☐	125.000	123.185	263272.71	0.0768	P	6.3
5	☐	250.000	255.684	527798.09	0.1594	P	0.8
6	☐	500.000	502.290	1070048.72	0.3132	P	1.2
7	☐	1000.000	997.620	2064162.59	0.6219	A	1.8
8	☐			5523.48	0.0017	P	10.5

$$y = 6.2338\text{E-}004 * x + 4.6330\text{E-}005$$

$$R = 1.0000$$

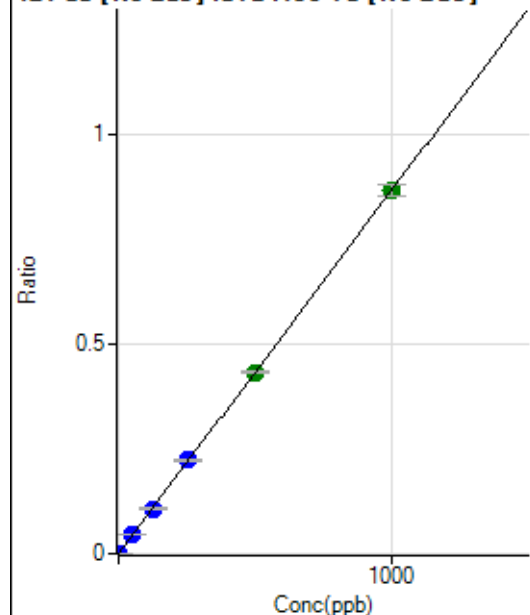
$$DL = 0.04247$$

$$BEC = 0.07432$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	50.6
2	☐	2.000	2.038	5881.97	0.0018	P	5.8
3	☐	50.000	50.867	146110.76	0.0442	P	0.1
4	☐	125.000	123.554	367503.28	0.1073	P	6.9
5	☐	250.000	257.355	739734.79	0.2235	P	0.8
6	☐	500.000	498.560	1479134.04	0.4329	A	1.0
7	☐	1000.000	999.018	2878569.38	0.8674	A	3.2
8	☐			9003.22	0.0028	P	9.7

$$y = 8.6825\text{E-}004 * x + 9.0107\text{E-}006$$

$$R = 1.0000$$

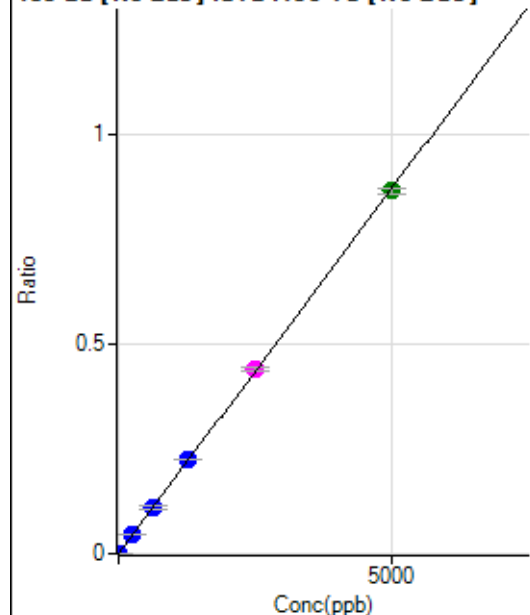
$$DL = 0.01574$$

$$BEC = 0.01038$$

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	50.00	0.0000	P	17.1
2	☐	10.000	9.754	5656.89	0.0017	P	7.1
3	☐	250.000	252.444	145132.45	0.0439	P	0.8
4	☐	625.000	625.180	372164.19	0.1086	P	6.9
5	☐	1250.000	1286.741	740217.26	0.2236	P	0.7
6	☐	2500.000	2536.533	1505946.40	0.4408	M	1.7
7	☐	5000.000	4972.404	2867591.99	0.8640	A	1.7
8	☐			11346.71	0.0035	P	13.8

$$y = 1.7376\text{E-}004 * x + 1.6005\text{E-}005$$

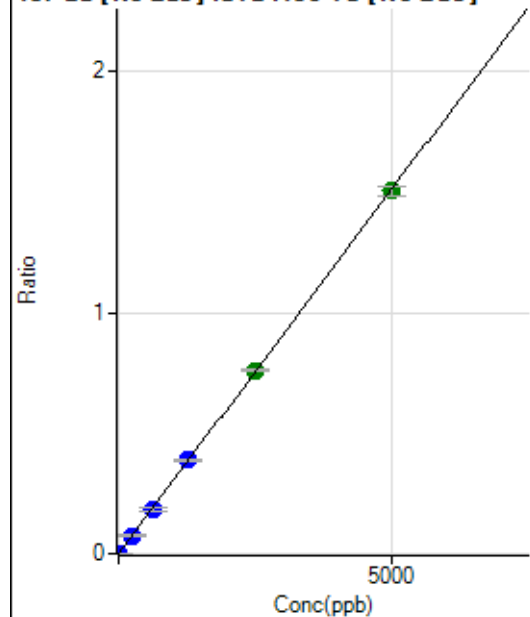
$$R = 0.9999$$

$$DL = 0.04729$$

$$BEC = 0.09211$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	12.2
2	☐	10.000	9.886	9967.80	0.0030	P	1.3
3	☐	250.000	250.700	250276.49	0.0757	P	2.4
4	☐	625.000	613.967	634640.95	0.1853	P	7.1
5	☐	1250.000	1288.289	1286905.77	0.3888	P	1.6
6	☐	2500.000	2518.884	2597089.21	0.7601	A	1.6
7	☐	5000.000	4982.330	4989195.42	1.5034	A	2.9
8	☐			19956.79	0.0062	P	8.6

$$y = 3.0174E-004 * x + 3.1922E-005$$

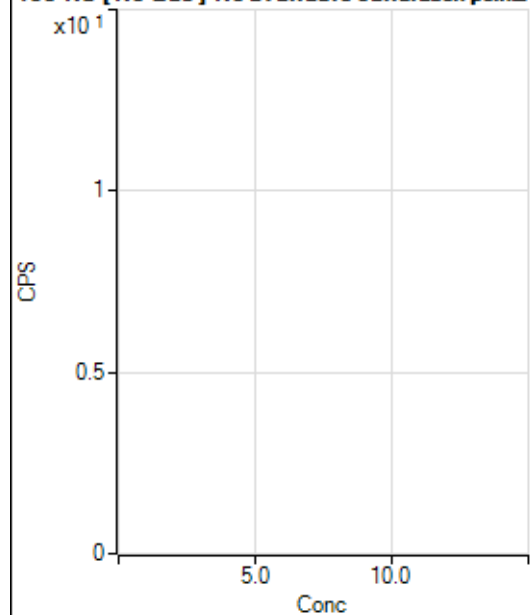
$$R = 0.9999$$

$$DL = 0.03883$$

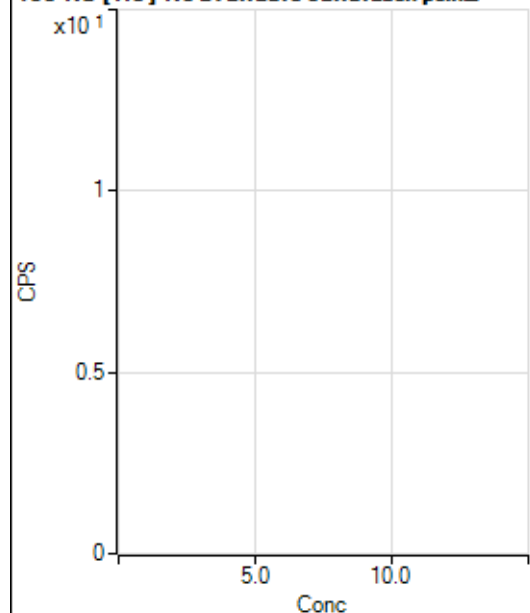
$$BEC = 0.1058$$

Weight: <None>

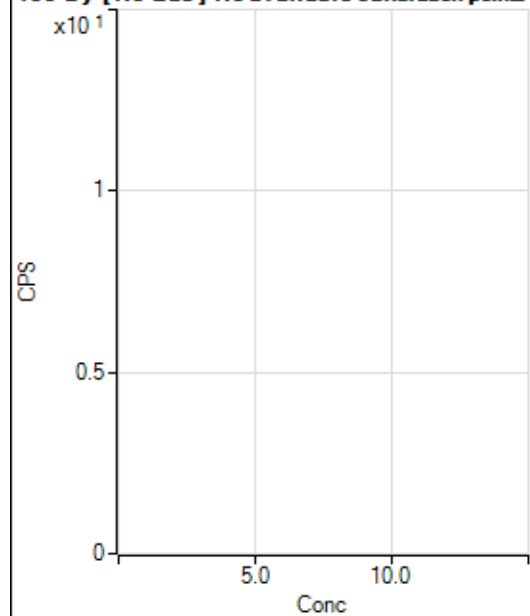
Min Conc: 0

150 Nd [No Gas] No available calibration points

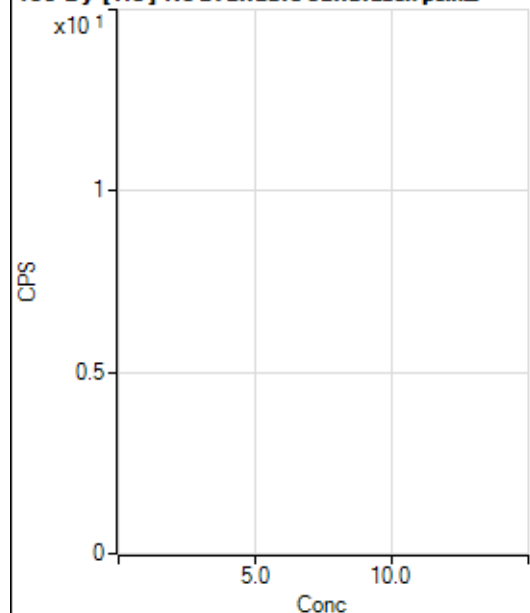
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			11.11		P	69.3
3	☐			22.22		P	75.5
4	☐			15.56		P	49.5
5	☐			42.22		P	59.8
6	☐			46.67		P	37.8
7	☐			137.78		P	7.4
8	☐			13.33		P	50.0

150 Nd [He] No available calibration points

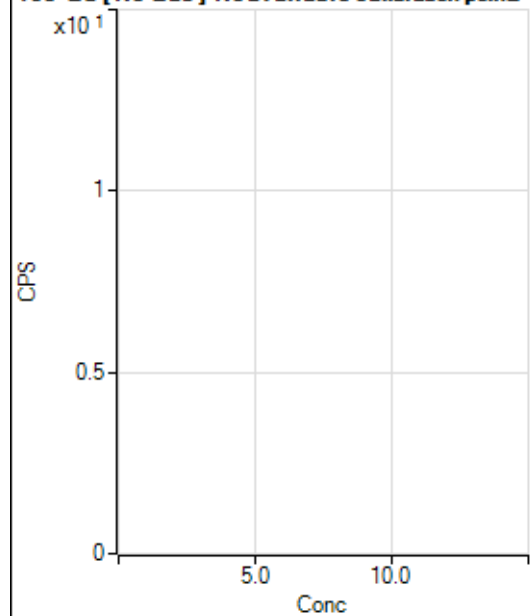
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			3.33		P	100.
4	☐			0.00		P	
5	☐			5.55		P	69.3
6	☐			6.67		P	50.0
7	☐			7.78		P	24.7
8	☐			3.33		P	173.

156 Dy [No Gas] No available calibration points

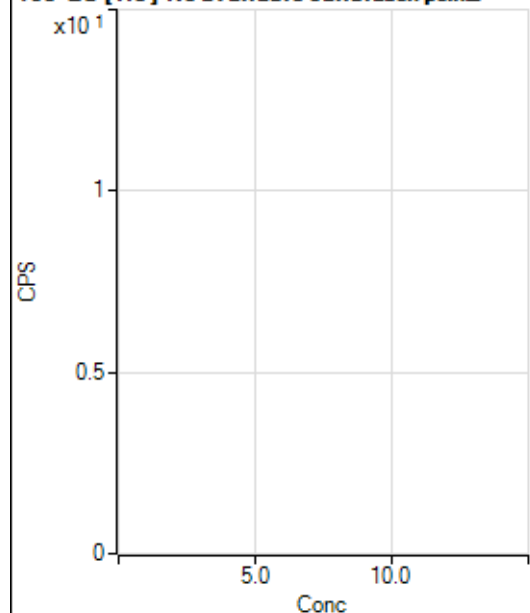
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	31.5
2	☐			27.78		P	62.5
3	☐			27.78		P	17.3
4	☐			47.22		P	36.7
5	☐			41.67		P	34.6
6	☐			58.34		P	14.3
7	☐			66.67		P	50.0
8	☐			197.23		P	6.5

156 Dy [He] No available calibration points

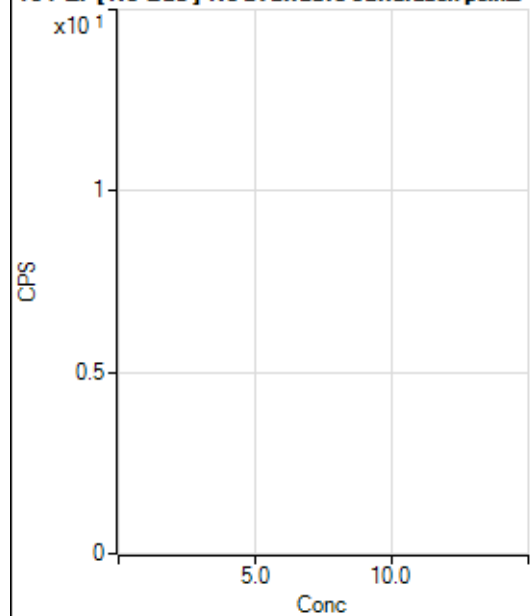
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	173.
3	☐			3.33		P	100.
4	☐			2.22		P	86.6
5	☐			16.67		P	52.9
6	☐			16.67		P	40.0
7	☐			28.89		P	24.0
8	☐			83.33		P	14.4

160 Gd [No Gas] Noavailable calibration poin_

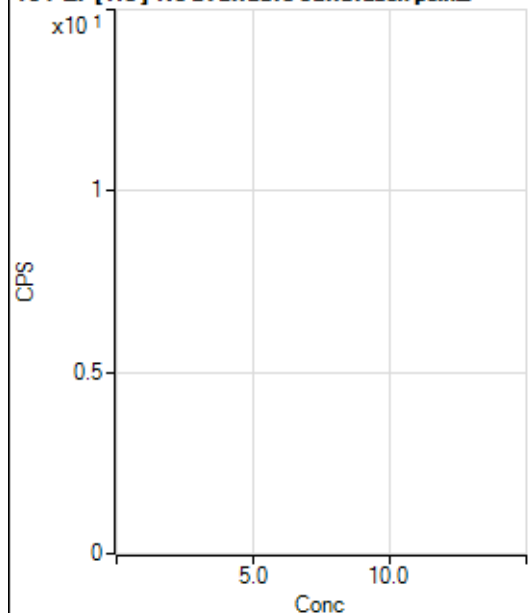
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			16.66		P	86.6
3	☐			30.56		P	83.3
4	☐			38.89		P	32.7
5	☐			30.56		P	83.3
6	☐			30.55		P	15.7
7	☐			63.89		P	7.5
8	☐			158.34		P	13.9

160 Gd [He] No available calibration points

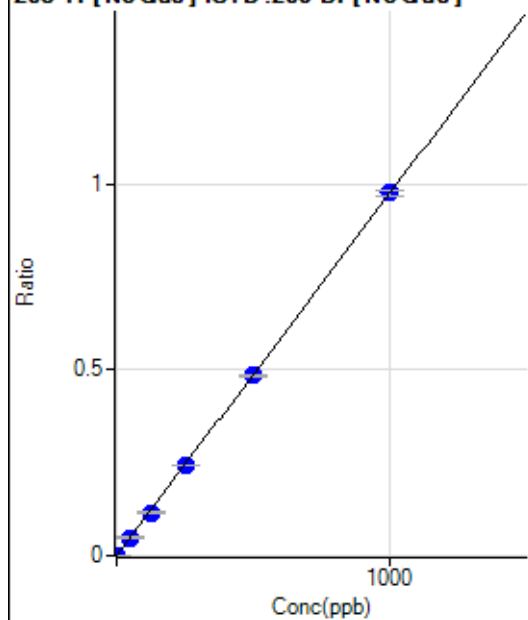
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			7.78		P	65.5
3	☐			1.11		P	173.
4	☐			13.34		P	86.6
5	☐			11.11		P	62.5
6	☐			28.89		P	33.3
7	☐			36.67		P	47.2
8	☐			107.78		P	6.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	91.6
2	☐			22.22		P	57.3
3	☐			13.89		P	91.6
4	☐			19.44		P	65.5
5	☐			22.22		P	21.6
6	☐			41.67		P	69.3
7	☐			27.78		P	69.3
8	☐			38.89		P	99.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			3.33		P	173.
3	☐			5.56		P	34.7
4	☐			14.45		P	74.2
5	☐			13.33		P	NaN
6	☐			5.56		P	34.7
7	☐			11.11		P	17.3
8	☐			22.22		P	37.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.46	0.0002	P	26.0
2	☐	1.000	0.879	1700.16	0.0010	P	8.6
3	☐	50.000	50.109	81323.79	0.0490	P	1.2
4	☐	125.000	118.251	202400.46	0.1154	P	5.6
5	☐	250.000	249.268	407973.99	0.2431	P	0.5
6	☐	500.000	497.588	833841.24	0.4852	P	1.5
7	☐	1000.000	1002.227	1607250.31	0.9771	P	1.6
8	☐			4542.61	0.0029	P	6.4

$$y = 9.7479\text{E-}004 * x + 1.5252\text{E-}004$$

$$R = 1.0000$$

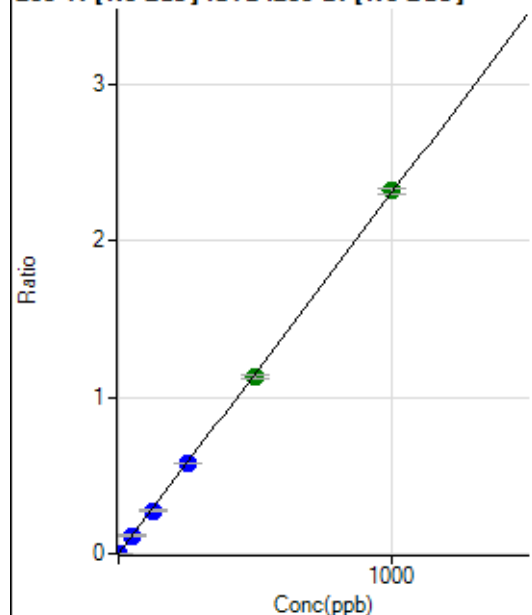
$$DL = 0.1221$$

$$BEC = 0.1565$$

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	536.14	0.0003	P	19.4
2	☐	1.000	0.932	4178.56	0.0025	P	8.1
3	☐	50.000	50.234	192724.66	0.1161	P	1.6
4	☐	125.000	117.823	476849.61	0.2719	P	5.4
5	☐	250.000	249.409	965208.15	0.5752	P	0.3
6	☐	500.000	488.559	1935619.03	1.1265	A	2.1
7	☐	1000.000	1006.754	3817854.47	2.3210	A	1.8
8	☐			10854.81	0.0070	P	6.4

$$y = 0.0023 * x + 3.3311E-004$$

$$R = 0.9999$$

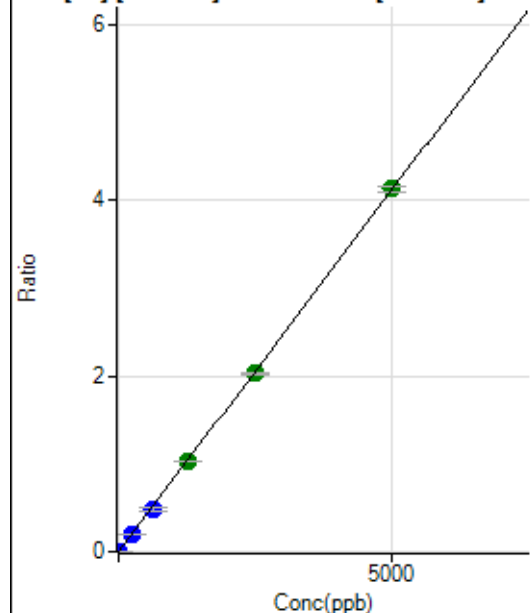
$$DL = 0.08397$$

$$BEC = 0.1445$$

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	327.79	0.0002	P	6.2
2	☐	1.000	0.940	1642.72	0.0010	P	5.5
3	☐	250.000	247.331	337662.79	0.2034	P	0.9
4	☐	625.000	584.509	842470.36	0.4805	P	6.0
5	☐	1250.000	1251.291	1725676.11	1.0285	A	0.6
6	☐	2500.000	2465.793	3482478.75	2.0265	A	1.4
7	☐	5000.000	5021.976	6788108.08	4.1270	A	1.9
8	☐			20650.07	0.0133	P	8.7

$$y = 8.2175E-004 * x + 2.0294E-004$$

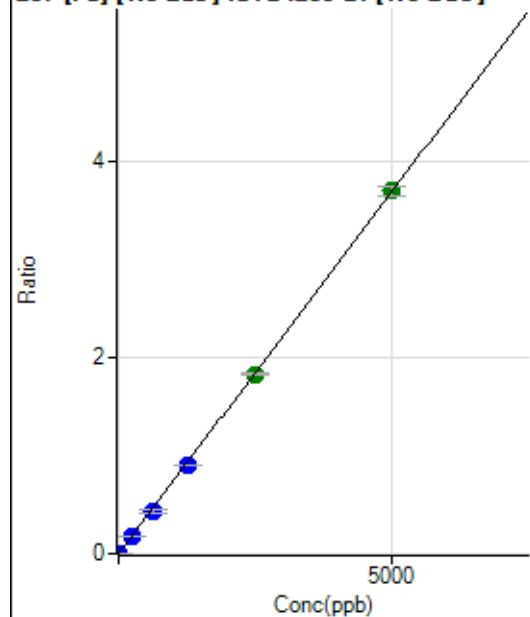
$$R = 0.9999$$

$$DL = 0.0458$$

$$BEC = 0.247$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	364.83	0.0002	P	5.1
2	☐	1.000	0.831	1411.22	0.0008	P	4.3
3	☐	250.000	247.078	302231.01	0.1821	P	1.0
4	☐	625.000	586.517	757200.92	0.4320	P	6.4
5	☐	1250.000	1229.904	1519445.62	0.9056	P	1.0
6	☐	2500.000	2484.992	3144425.36	1.8294	A	0.5
7	☐	5000.000	5017.485	6074807.48	3.6936	A	2.5
8	☐			18274.20	0.0118	P	7.8

$$y = 7.3610E-004 * x + 2.2664E-004$$

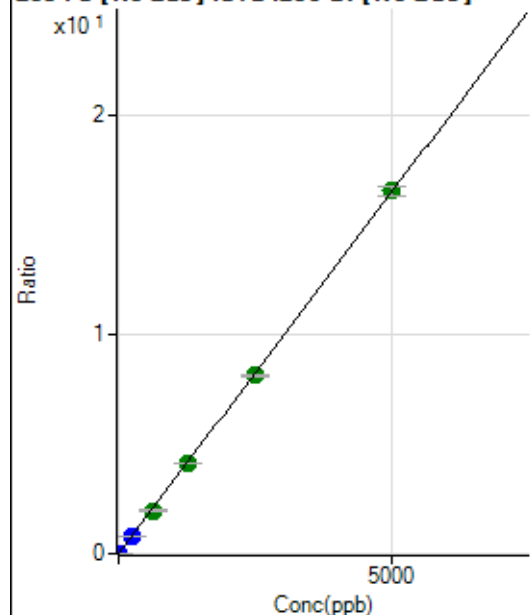
$$R = 1.0000$$

$$DL = 0.04692$$

$$BEC = 0.3079$$

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	1442.65	0.0009	P	6.2
2	☐	1.000	0.888	6435.94	0.0038	P	1.7
3	☐	250.000	247.683	1356760.36	0.8175	P	0.8
4	☐	625.000	594.209	3435333.20	1.9599	A	6.6
5	☐	1250.000	1252.848	6932045.25	4.1313	A	0.7
6	☐	2500.000	2468.567	13987502.37	8.1394	A	1.4
7	☐	5000.000	5018.969	27216114.03	16.5476	A	2.4
8	☐			82190.95	0.0529	P	9.3

$$y = 0.0033 * x + 8.9530E-004$$

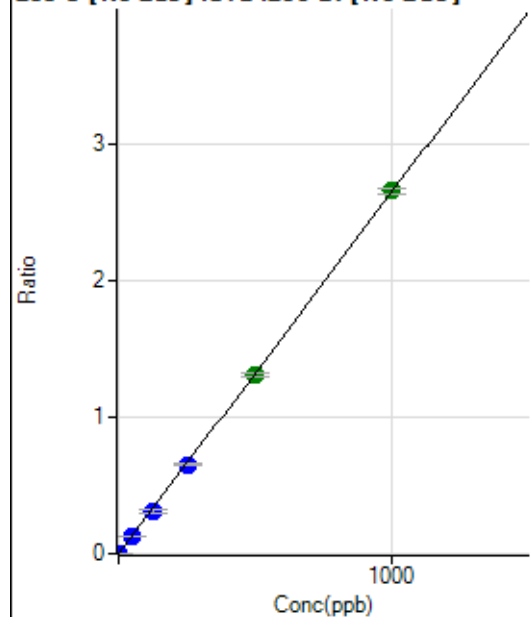
$$R = 1.0000$$

$$DL = 0.05045$$

$$BEC = 0.2716$$

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	211.12	0.0001	P	4.5
2	☐	1.000	0.926	4334.22	0.0026	P	1.2
3	☐	50.000	48.938	214596.04	0.1293	P	2.5
4	☐	125.000	116.604	539682.52	0.3079	P	6.8
5	☐	250.000	247.305	1095531.51	0.6529	P	0.5
6	☐	500.000	494.274	2242267.11	1.3048	A	1.8
7	☐	1000.000	1004.639	4362374.88	2.6519	A	1.3
8	☐			9970.83	0.0064	P	8.1

$$y = 0.0026 * x + 1.3083E-004$$

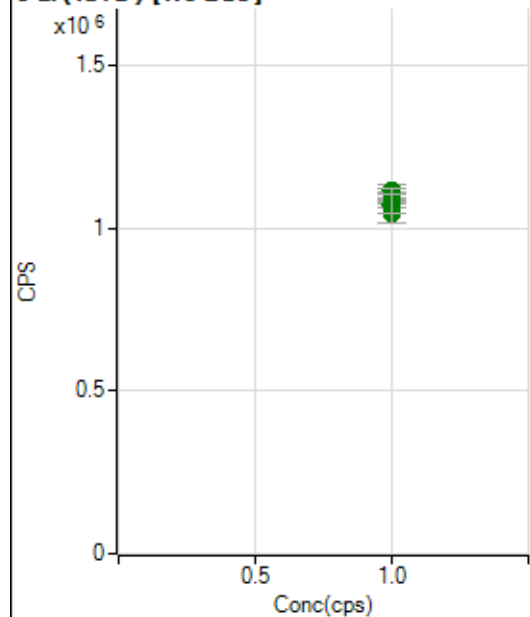
$$R = 0.9999$$

$$DL = 0.006641$$

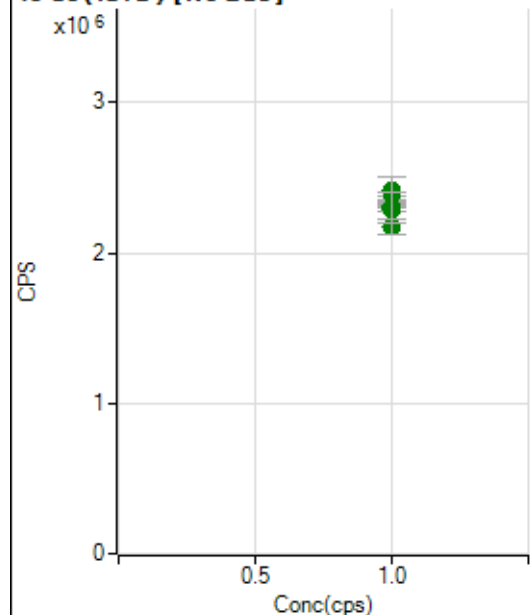
$$BEC = 0.04957$$

Weight: <None>

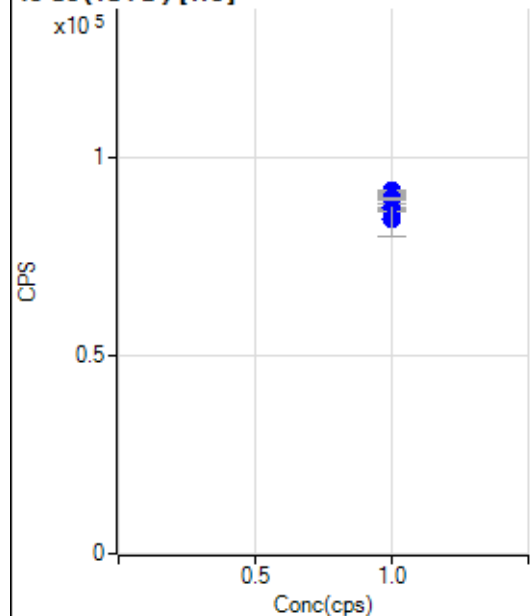
Min Conc: 0

6 Li (ISTD) [No Gas]

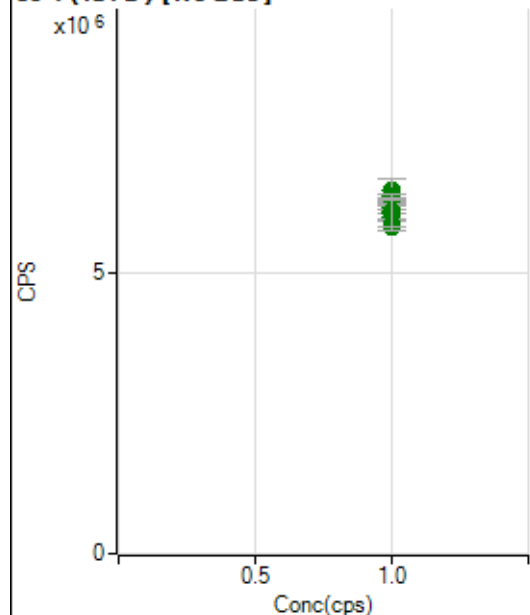
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1044780.95		A	5.3
2	☐	1.000		1089682.82		A	0.6
3	☐	1.000		1081596.24		A	0.8
4	☐	1.000		1102329.76		A	5.1
5	☐	1.000		1070581.14		A	1.2
6	☐	1.000		1111470.77		A	0.1
7	☐	1.000		1113276.04		A	1.3
8	☐	1.000		1075761.93		A	5.3

45 Sc (ISTD) [No Gas]

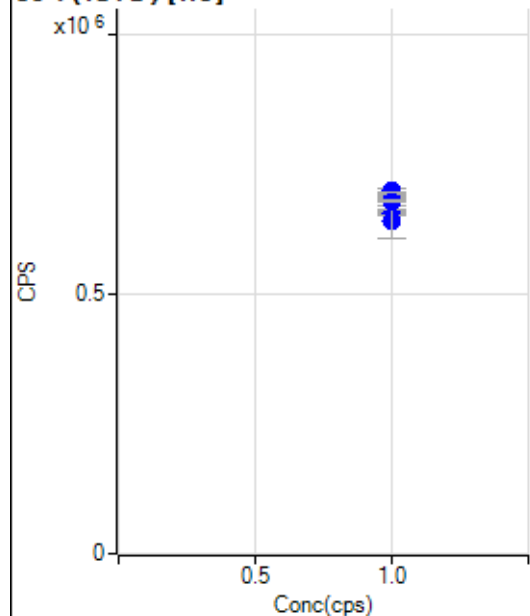
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2180232.12		A	4.7
2	☐	1.000		2291386.11		A	1.2
3	☐	1.000		2306519.15		A	0.8
4	☐	1.000		2413264.46		A	7.5
5	☐	1.000		2353839.05		A	1.7
6	☐	1.000		2351200.24		A	0.6
7	☐	1.000		2319630.78		A	1.9
8	☐	1.000		2300102.82		A	9.1

45 Sc (ISTD) [He]

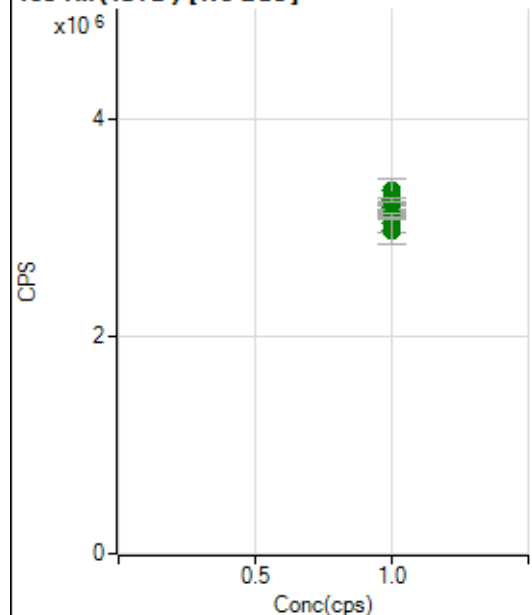
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		86907.35		P	0.5
2	☐	1.000		87208.47		P	2.1
3	☐	1.000		84077.15		P	9.7
4	☐	1.000		90106.65		P	0.3
5	☐	1.000		90826.79		P	0.4
6	☐	1.000		90954.29		P	1.6
7	☐	1.000		91392.52		P	0.3
8	☐	1.000		89442.76		P	0.7

89 Y (ISTD) [No Gas]

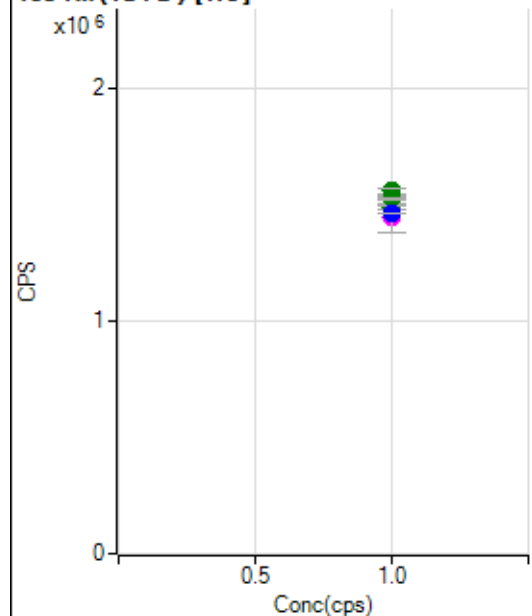
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5820016.37		A	3.1
2	☐	1.000		5995624.49		A	1.3
3	☐	1.000		6139653.66		A	1.0
4	☐	1.000		6449111.22		A	6.5
5	☐	1.000		6207242.68		A	0.4
6	☐	1.000		6350725.25		A	1.3
7	☐	1.000		6086102.34		A	1.2
8	☐	1.000		6043105.53		A	8.2

89 Y (ISTD) [He]

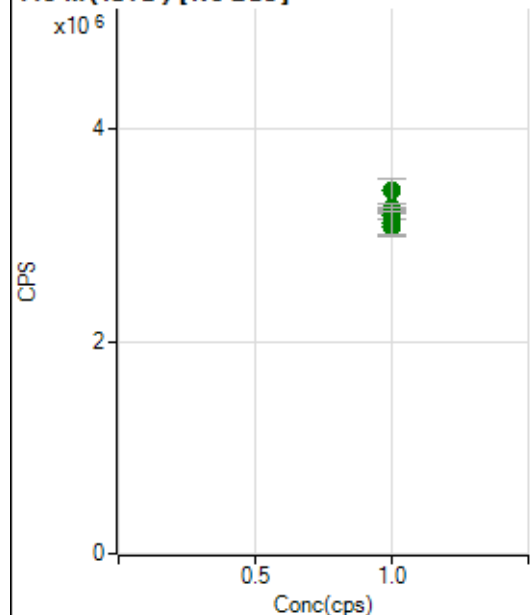
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		657092.06		P	0.9
2	☐	1.000		656402.77		P	1.8
3	☐	1.000		640006.81		P	9.9
4	☐	1.000		686906.55		P	0.8
5	☐	1.000		686971.32		P	0.3
6	☐	1.000		698956.39		P	1.7
7	☐	1.000		695797.47		P	0.5
8	☐	1.000		679420.89		P	0.6

103 Rh (ISTD) [No Gas]

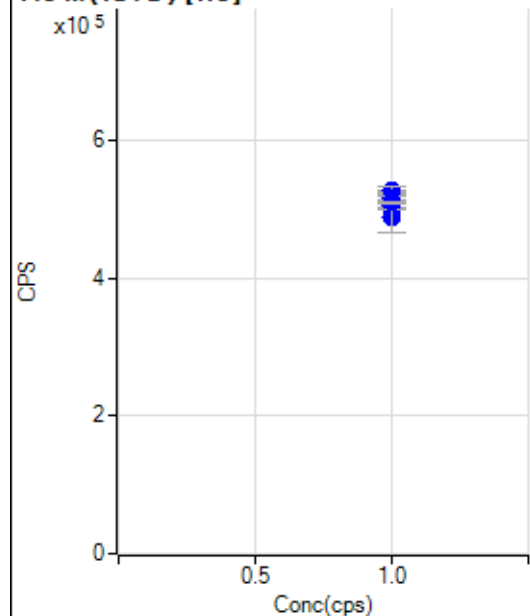
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3035068.21		A	5.0
2	☐	1.000		3174883.43		A	1.4
3	☐	1.000		3188312.44		A	1.2
4	☐	1.000		3335954.29		A	6.9
5	☐	1.000		3218918.24		A	0.2
6	☐	1.000		3256804.24		A	1.3
7	☐	1.000		3101131.45		A	1.6
8	☐	1.000		2969032.55		A	8.7

103 Rh (ISTD) [He]

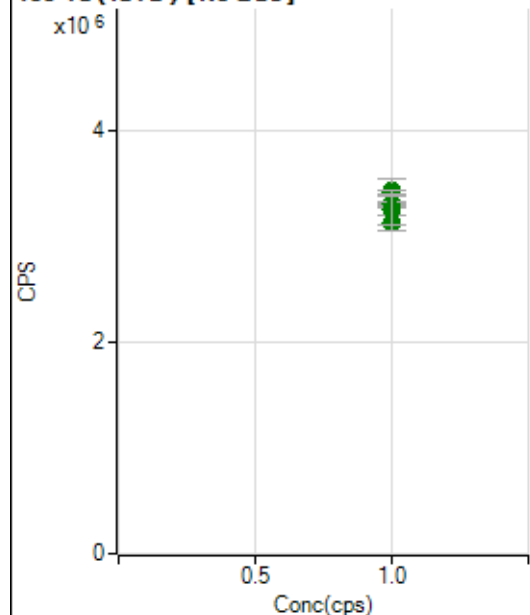
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1488418.61		A	1.1
2	☐	1.000		1486249.63		A	1.4
3	☐	1.000		1439718.49		M	8.6
4	☐	1.000		1536181.11		A	0.9
5	☐	1.000		1537538.52		A	0.2
6	☐	1.000		1556097.98		A	1.3
7	☐	1.000		1522001.12		A	0.6
8	☐	1.000		1459933.45		P	0.2

115 In (ISTD) [No Gas]

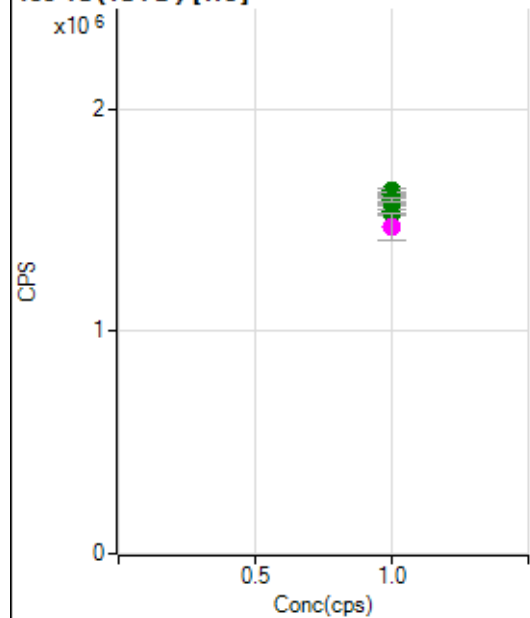
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3090131.98		A	4.7
2	☐	1.000		3232742.69		A	1.6
3	☐	1.000		3217234.64		A	0.6
4	☐	1.000		3420326.92		A	7.0
5	☐	1.000		3245960.58		A	0.3
6	☐	1.000		3270045.99		A	2.3
7	☐	1.000		3184265.22		A	2.3
8	☐	1.000		3126722.41		A	8.5

115 In (ISTD) [He]

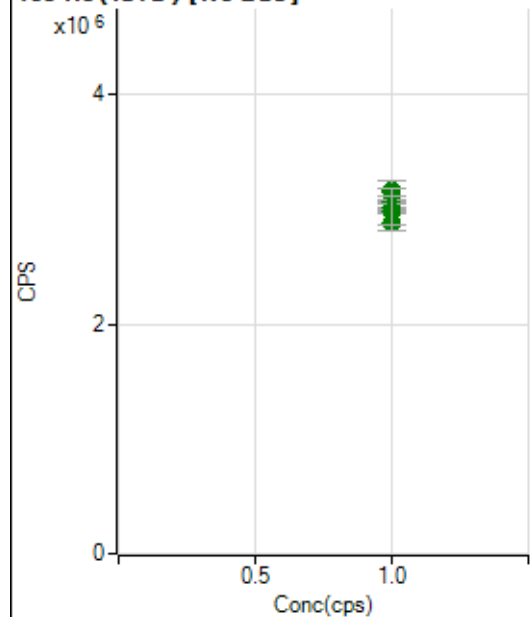
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		502551.60		P	0.2
2	☐	1.000		504632.71		P	2.1
3	☐	1.000		488349.08		P	9.7
4	☐	1.000		524262.97		P	0.8
5	☐	1.000		523467.19		P	0.5
6	☐	1.000		526359.48		P	2.1
7	☐	1.000		517242.04		P	1.0
8	☐	1.000		509869.88		P	0.8

159 Tb (ISTD) [No Gas]

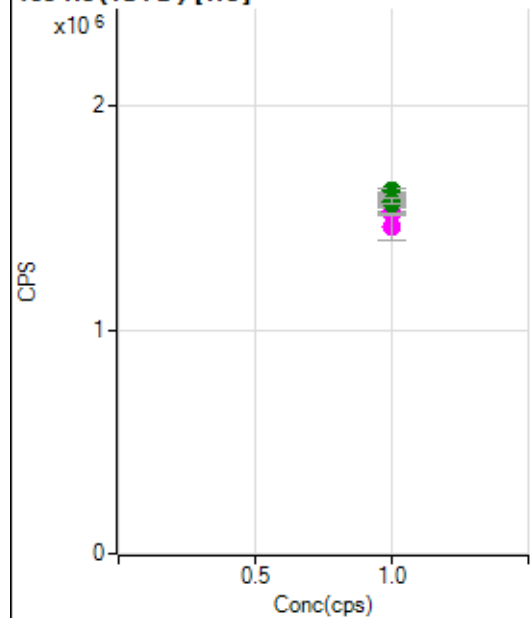
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3129457.42		A	4.5
2	☐	1.000		3305941.31		A	1.3
3	☐	1.000		3307574.43		A	0.9
4	☐	1.000		3435682.87		A	6.5
5	☐	1.000		3310558.67		A	0.8
6	☐	1.000		3417114.01		A	1.2
7	☐	1.000		3319282.07		A	1.0
8	☐	1.000		3254229.19		A	8.2

159 Tb (ISTD) [He]

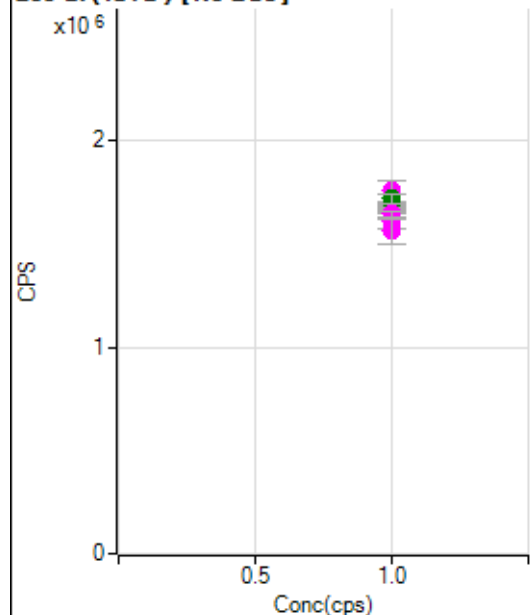
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1527468.60		A	0.8
2	☐	1.000		1537700.24		A	1.3
3	☐	1.000		1470991.62		M	8.4
4	☐	1.000		1575664.40		A	1.2
5	☐	1.000		1579320.53		A	0.8
6	☐	1.000		1631515.34		A	1.5
7	☐	1.000		1614681.11		A	1.2
8	☐	1.000		1593500.56		A	1.1

165 Ho (ISTD) [No Gas]

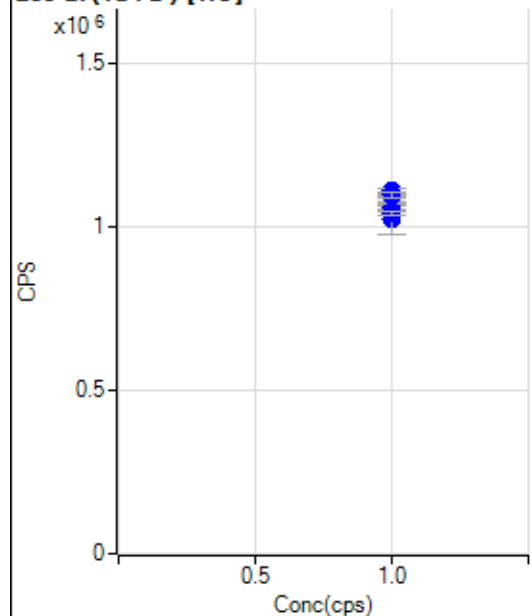
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2888486.91		A	5.2
2	☐	1.000		3022323.33		A	1.8
3	☐	1.000		3010024.54		A	0.6
4	☐	1.000		3160019.56		A	5.8
5	☐	1.000		3067933.57		A	1.3
6	☐	1.000		3148761.79		A	2.3
7	☐	1.000		3011779.00		A	2.1
8	☐	1.000		2989649.35		A	8.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1521490.99		M	0.9
2	☐	1.000		1529976.51		M	1.8
3	☐	1.000		1463124.24		M	8.5
4	☐	1.000		1563642.01		M	1.0
5	☐	1.000		1565172.18		A	1.8
6	☐	1.000		1621847.63		A	1.1
7	☐	1.000		1602724.56		A	0.7
8	☐	1.000		1576450.29		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1612153.64		M	4.6
2	☐	1.000		1683778.97		A	0.1
3	☐	1.000		1659787.87		A	0.9
4	☐	1.000		1757315.30		M	5.9
5	☐	1.000		1677940.22		A	0.3
6	☐	1.000		1718942.82		A	2.9
7	☐	1.000		1645124.04		M	1.6
8	☐	1.000		1560380.60		M	8.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1058621.55		P	0.6
2	☐	1.000		1059793.63		P	1.8
3	☐	1.000		1024228.30		P	9.8
4	☐	1.000		1094851.44		P	1.4
5	☐	1.000		1097003.34		P	0.8
6	☐	1.000		1109429.27		P	1.2
7	☐	1.000		1097793.52		P	1.3
8	☐	1.000		1042839.32		P	1.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8112020C.b
Acq. Date-Time 2020-11-20 18:16:03
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2151	21514.22			0.708	5.000
24		25953	259525.57			0.864	5.000
25		3385	33852.75			1.029	5.000
26		3898	38979.16			0.799	5.000
59		12912	129119.61			0.528	5.000
113		1837	18365.31			0.398	5.000
115		5622	56219.07			0.668	5.000
206		1717	17172.15			0.974	5.000
207		1428	14283.44			0.373	5.000
208		3455	34546.43			0.508	5.000
220		1	10.40			19.050	

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

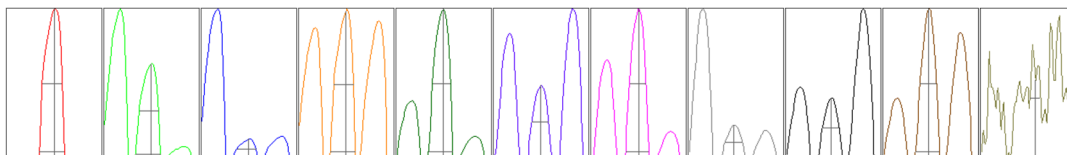
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2150	2164	2138	2170	2136
24	26021	26040	25568	26152	25982
25	3383	3420	3336	3417	3370
26	3912	3938	3864	3907	3869
59	12916	12926	12798	12978	12942
113	1846	1831	1828	1841	1836
115	5682	5620	5579	5609	5620
206	1737	1710	1715	1729	1694
207	1432	1430	1434	1425	1421
208	3474	3456	3469	3432	3443

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3676.29	9.05	8.90 - 9.10	
24	44934.06	24.00	23.90 - 24.10	
25	5958.54	25.00	24.90 - 25.10	
26	6731.66	26.00	25.90 - 26.10	
59	23917.87	59.00	58.90 - 59.10	
113	3614.26	113.00	112.90 - 113.10	
115	11232.22	115.05	114.90 - 115.10	
206	3292.83	205.95	205.90 - 206.10	
207	2815.86	206.95	206.90 - 207.10	
208	6935.67	207.95	207.90 - 208.10	
220	1.10	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.786	0.900	
24	0.61	0.785	0.900	
25	0.61	0.789	0.900	
26	0.62	0.786	0.900	
59	0.57	0.766	0.900	
113	0.52	0.730	0.900	
115	0.51	0.734	0.900	
206	0.54	0.751	0.900	
207	0.53	0.754	0.900	
208	0.52	0.769	0.900	
220	0.32			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	14.6 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3154	31537.22			0.505	
89		6799	67988.90			0.706	
205		5026	50260.34			1.063	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3134	3149	3174	3147	3166
89	6762	6793	6747	6862	6831
205	5009	4974	4984	5097	5066

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V