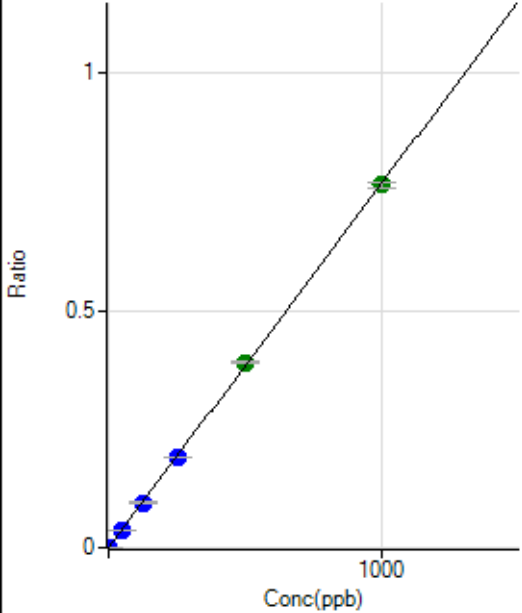


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7111424MS5.b\
 Analysis File: P7111424MS5.batch.bin
 DA Date-Time: 2024-11-14 17:03:26
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-11-14 13:10:50
2	006CALS.d	S02	2024-11-14 13:17:23
3	007CALS.d	S03	2024-11-14 13:20:38
4	008CALS.d	S04	2024-11-14 13:23:36
5	009CALS.d	S05	2024-11-14 13:26:22
6	010CALS.d	S06	2024-11-14 13:29:09
7	011CALS.d	S07	2024-11-14 13:31:54
8	012CALS.d	S08	2024-11-14 13:34:41

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	22.
2	☐	1.000	1.036	2407.63	0.0008	P	5.8
3	☐	50.000	49.410	113892.18	0.0380	P	2.3
4	☐	125.000	123.742	284541.25	0.0950	P	1.1
5	☐	250.000	248.277	555262.36	0.1907	P	0.9
6	☐	500.000	508.425	1127605.80	0.3905	A	0.6
7	☐	1000.000	996.405	2150582.92	0.7652	A	1.3
8	☐			270.38	0.0001	P	24.

$y = 7.6800E-004 * x + 9.7107E-006$

$R = 0.9999$

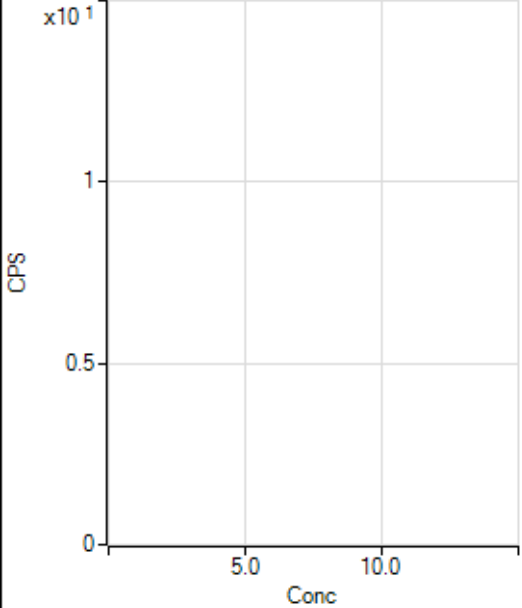
$DL = 0.008431$

$BEC = 0.01264$

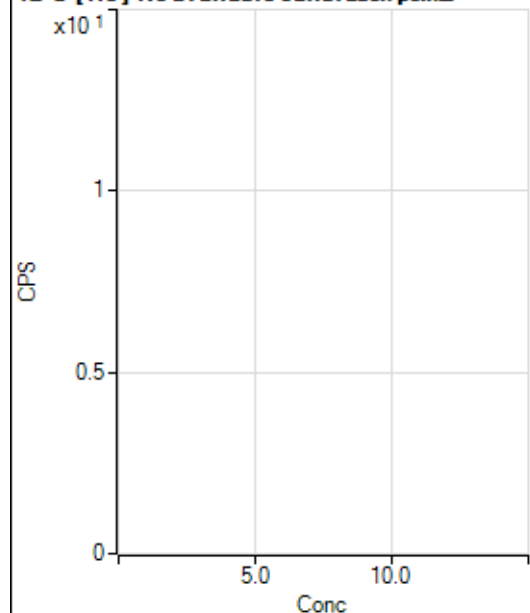
Weight: <None>

Min Conc: 0

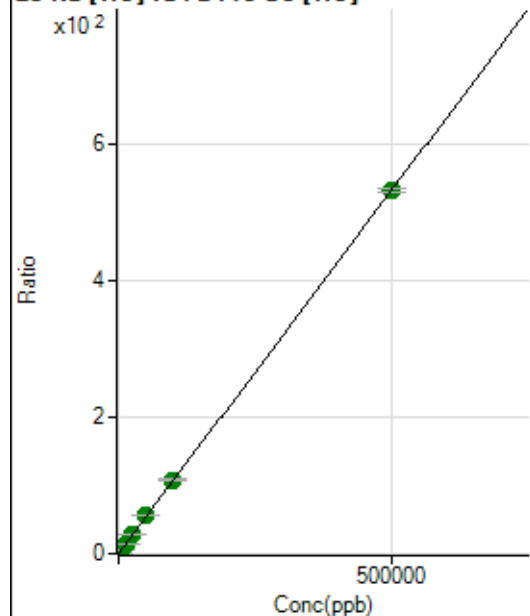
12 C [No Gas] No available calibration points



	Rj 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	45434.61	0.0360	P	0.9
2	☐	500.000	496.389	711107.52	0.5630	P	0.6
3	☐	5000.000	5379.211	7234896.91	5.7470	A	0.7
4	☐	12500.000	13459.536	17822509.46	14.3257	A	1.0
5	☐	25000.000	26325.737	34235958.93	27.9855	A	1.7
6	☐	50000.000	52589.990	67128629.55	55.8696	A	1.9
7	☐	100000.00	100890.37	132228659.14	107.1490	A	2.3
8	☐	500000.00	499468.86	633033088.34	530.3105	A	1.0

$$y = 0.0011 * x + 0.0360$$

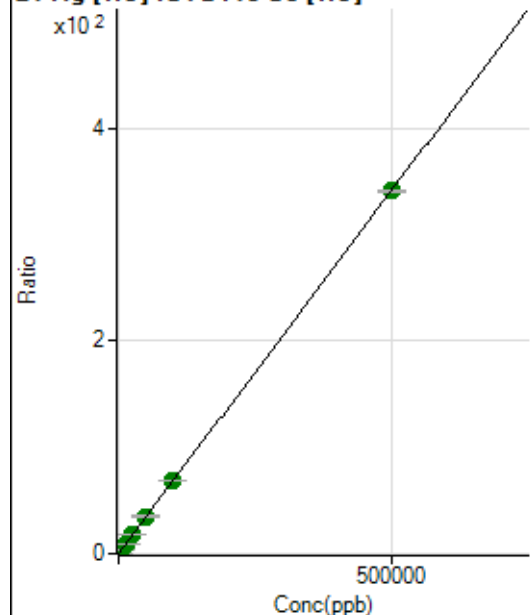
$$R = 1.0000$$

$$DL = 0.9506$$

$$BEC = 33.95$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1385.63	0.0011	P	2.4
2	☐	500.000	502.455	434498.86	0.3440	P	1.4
3	☐	5000.000	5300.987	4556215.59	3.6192	A	1.3
4	☐	12500.000	13199.321	11208821.09	9.0101	A	0.6
5	☐	25000.000	25989.002	21698539.95	17.7396	A	2.4
6	☐	50000.000	51127.471	41929540.49	34.8975	A	2.3
7	☐	100000.00	100739.98	84856899.29	68.7599	A	1.9
8	☐	500000.00	499669.31	407112976.16	341.0442	A	0.7

$$y = 6.8254\text{E-}004 * x + 0.0011$$

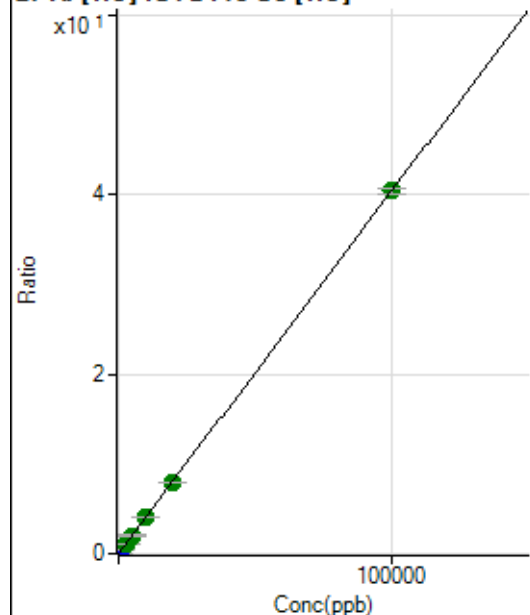
$$R = 1.0000$$

$$DL = 0.1167$$

$$BEC = 1.611$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	550.02	0.0004	P	4.1
2	☐	20.000	20.077	10792.18	0.0085	P	9.6
3	☐	1000.000	992.193	504930.15	0.4011	P	0.1
4	☐	2500.000	2565.011	1289163.50	1.0362	A	1.6
5	☐	5000.000	4990.241	2465198.42	2.0155	A	2.9
6	☐	10000.000	9896.584	4802383.02	3.9967	A	1.6
7	☐	20000.000	19579.799	9757746.24	7.9069	A	2.0
8	☐	100000.00	100093.32	48248217.61	40.4187	A	1.3

$$y = 4.0381\text{E-}004 * x + 4.3625\text{E-}004$$

$$R = 1.0000$$

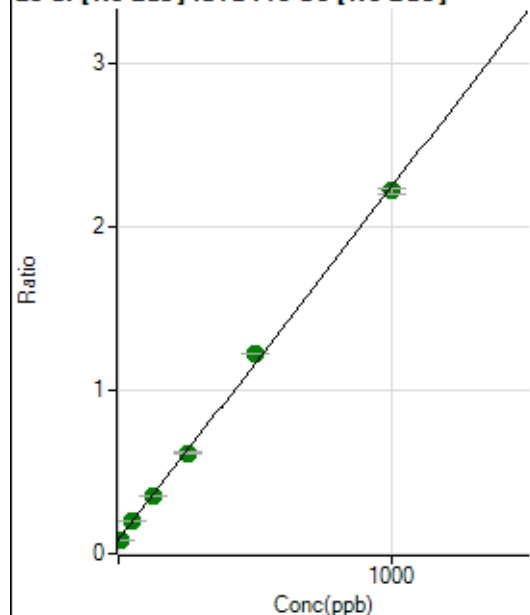
$$DL = 0.1316$$

$$BEC = 1.08$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1262997.58	0.0858	A	1.1
2	☐	10.000	0.685	1294463.40	0.0873	A	1.4
3	☐	50.000	51.761	2920281.24	0.1976	A	0.4
4	☐	125.000	124.954	5171318.33	0.3556	A	0.5
5	☐	250.000	244.288	8862504.73	0.6132	A	1.8
6	☐	500.000	526.430	17213842.52	1.2224	A	0.2
7	☐	1000.000	988.224	31032528.98	2.2193	A	1.3
8	☐			1274397.92	0.0919	A	1.7

$$y = 0.0022 * x + 0.0858$$

$$R = 0.9994$$

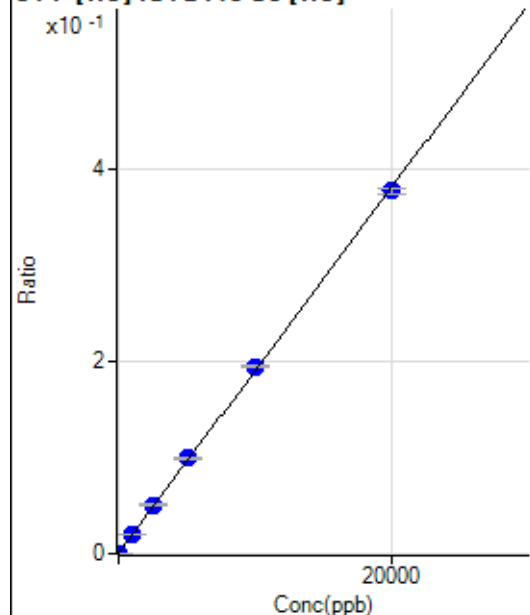
$$DL = 1.274$$

$$BEC = 39.76$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-16.701	293.34	0.0002	P	6.1
2	☐	0.000	16.701	1094.50	0.0009	P	2.7
3	☐	1000.000	1046.686	25701.65	0.0204	P	1.7
4	☐	2500.000	2652.926	63325.94	0.0509	P	0.2
5	☐	5000.000	5189.963	121153.58	0.0991	P	2.8
6	☐	10000.000	10217.695	233689.62	0.1945	P	1.6
7	☐	20000.000	19822.212	465010.88	0.3768	P	1.5
8	☐			438.90	0.0004	P	2.0

$$y = 1.8980E-005 * x + 5.4963E-004$$

$$R = 0.9998$$

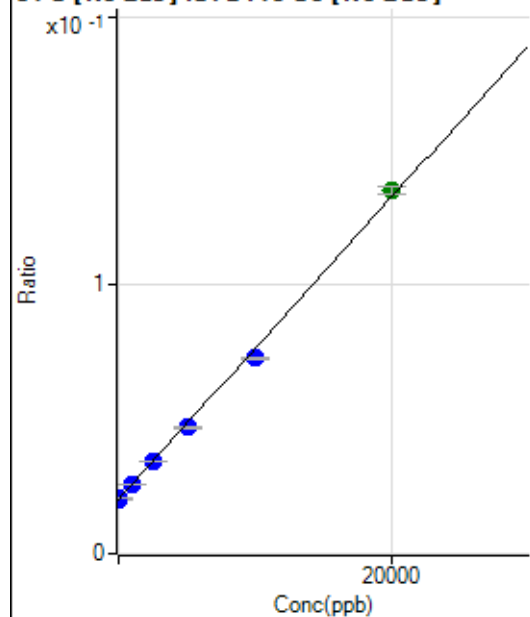
$$DL = 2.991$$

$$BEC = 28.96$$

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	-64.812	292876.91	0.0199	P	1.3
2	☐	0.000	64.812	305895.76	0.0206	P	1.4
3	☐	1000.000	989.883	381959.18	0.0258	P	0.3
4	☐	2500.000	2513.812	500612.64	0.0344	P	0.6
5	☐	5000.000	4737.747	678471.79	0.0469	P	1.6
6	☐	10000.000	9327.914	1025059.93	0.0728	P	0.3
7	☐	20000.000	20400.386	1889567.07	0.1351	A	2.0
8	☐			250345.14	0.0180	P	0.1

$$y = 5.6302E-006 * x + 0.0203$$

$$R = 0.9990$$

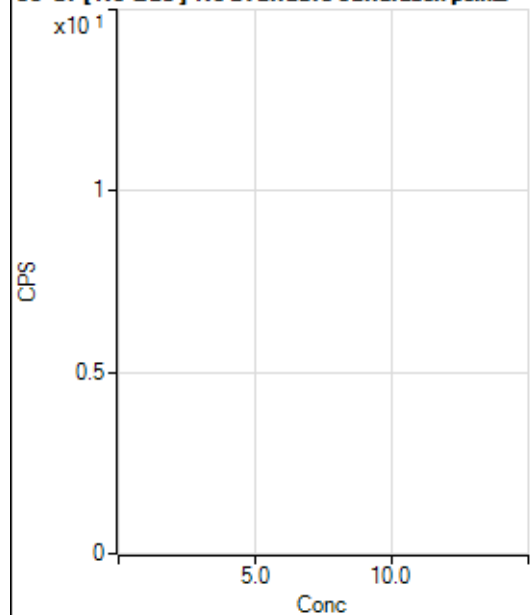
$$DL = 144.5$$

$$BEC = 3600$$

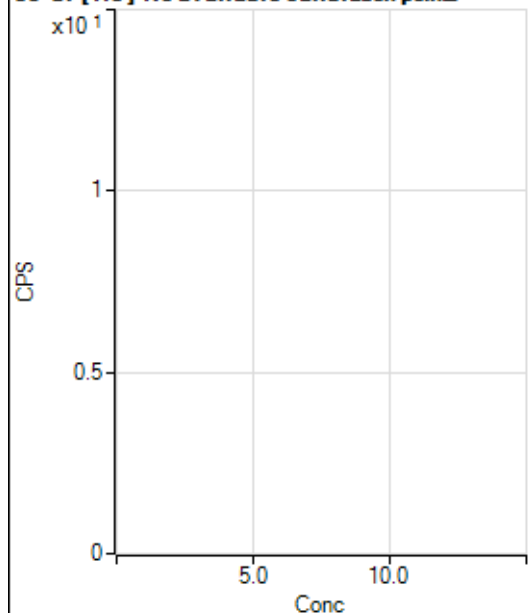
Weight: <None>

Min Conc: 0

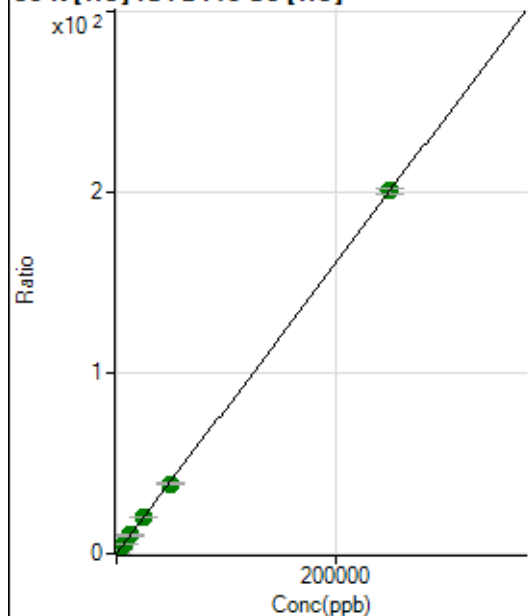
35 Cl [No Gas] No available calibration points



	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	72013.56	0.0571	P	0.6
2	☐	500.000	513.592	592827.23	0.4694	P	0.7
3	☐	2500.000	2560.602	2659462.37	2.1125	A	1.2
4	☐	6250.000	6366.126	6428360.04	5.1673	A	0.5
5	☐	12500.000	12656.625	12497312.87	10.2167	A	2.2
6	☐	25000.000	24931.885	24115197.14	20.0701	A	2.0
7	☐	50000.000	48050.721	47670458.73	38.6278	A	1.9
8	☐	250000.00	250385.30	239982396.42	201.0431	A	1.4

$$y = 8.0271\text{E-}004 * x + 0.0571$$

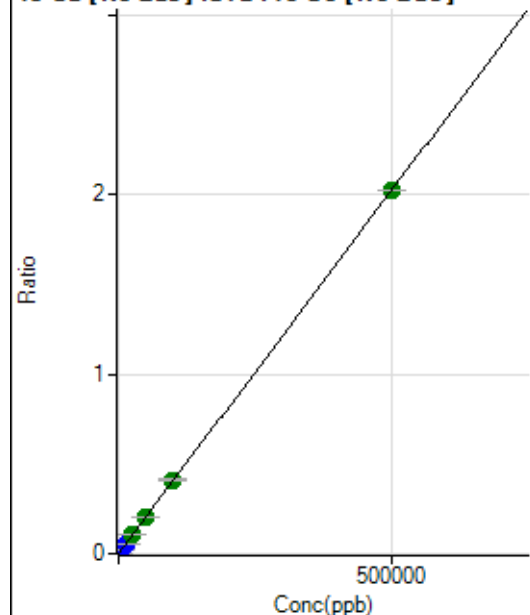
$$R = 1.0000$$

$$DL = 1.202$$

$$BEC = 71.17$$

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	722.25	0.0000	P	8.6
2	☐	500.000	528.404	32397.90	0.0022	P	1.1
3	☐	5000.000	5268.862	315534.53	0.0213	P	1.2
4	☐	12500.000	13375.951	787099.66	0.0541	P	0.2
5	☐	25000.000	25748.080	1505168.87	0.1041	A	0.5
6	☐	50000.000	51114.588	2910766.83	0.2067	A	0.6
7	☐	100000.00	101649.82	5747194.50	0.4110	A	0.6
8	☐	500000.00	499496.55	28020207.08	2.0194	A	0.2

$$y = 4.0427\text{E-}006 * x + 4.9111\text{E-}005$$

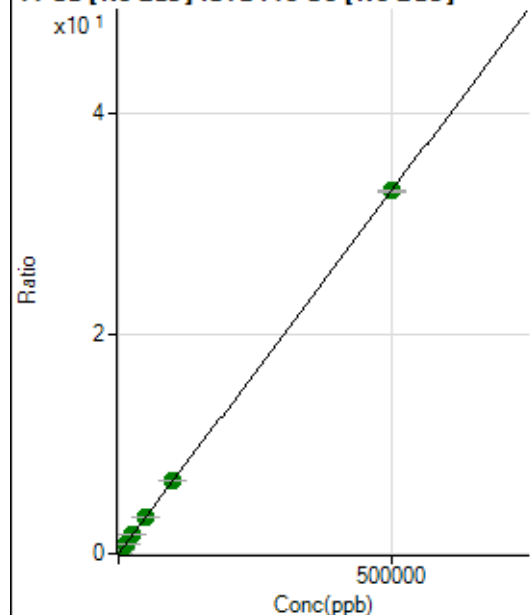
$$R = 1.0000$$

$$DL = 3.148$$

$$BEC = 12.15$$

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	28139.61	0.0019	P	1.3
2	☐	500.000	528.106	545015.60	0.0368	P	1.3
3	☐	5000.000	5106.345	5009270.58	0.3389	A	1.4
4	☐	12500.000	12954.413	12461390.79	0.8569	A	0.1
5	☐	25000.000	25451.162	24304479.36	1.6817	A	1.1
6	☐	50000.000	50049.206	46544297.09	3.3051	A	0.2
7	☐	100000.00	99918.641	92241405.30	6.5965	A	1.1
8	☐	500000.00	499976.34	457906242.06	33.0001	A	0.3

$$y = 6.5999\text{E-}005 * x + 0.0019$$

$$R = 1.0000$$

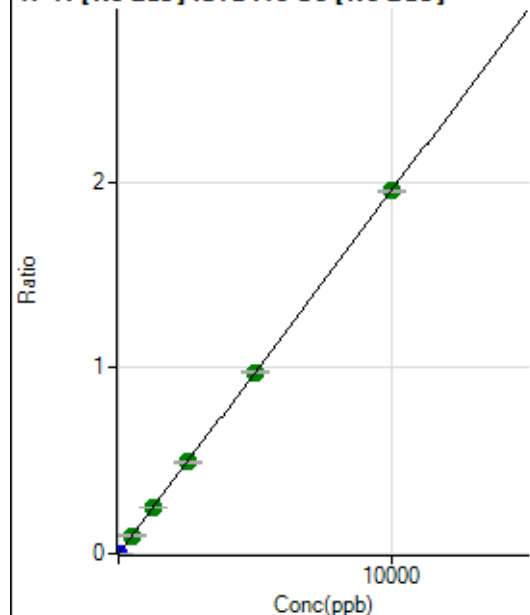
$$DL = 1.155$$

$$BEC = 28.98$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1843.46	0.0001	P	3.6
2	☐	5.000	5.079	16574.71	0.0011	P	0.1
3	☐	500.000	500.406	1447614.81	0.0979	A	1.8
4	☐	1250.000	1278.841	3637289.18	0.2501	A	0.4
5	☐	2500.000	2527.497	7142447.60	0.4942	A	1.2
6	☐	5000.000	4989.831	13737599.52	0.9755	A	1.3
7	☐	10000.000	9994.585	27322159.32	1.9539	A	0.4
8	☐			3581.58	0.0003	P	13.

$$y = 1.9548\text{E-}004 * x + 1.2532\text{E-}004$$

$$R = 1.0000$$

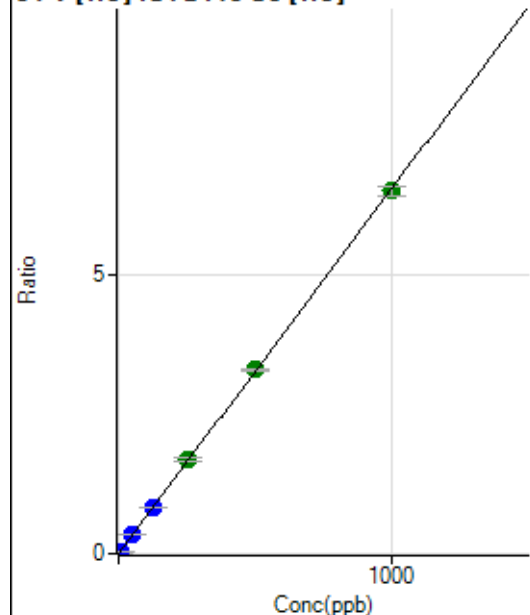
$$DL = 0.06936$$

$$BEC = 0.6411$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	38.
2	☐	5.000	5.100	42115.33	0.0333	P	0.6
3	☐	50.000	50.575	416021.43	0.3305	P	0.6
4	☐	125.000	126.366	1027159.36	0.8257	P	0.3
5	☐	250.000	257.983	2061345.89	1.6856	A	3.7
6	☐	500.000	506.012	3972870.22	3.3062	A	1.1
7	☐	1000.000	994.798	8020866.06	6.4998	A	2.3
8	☐			2039.04	0.0017	P	6.7

$$y = 0.0065 * x + 2.2052\text{E-}005$$

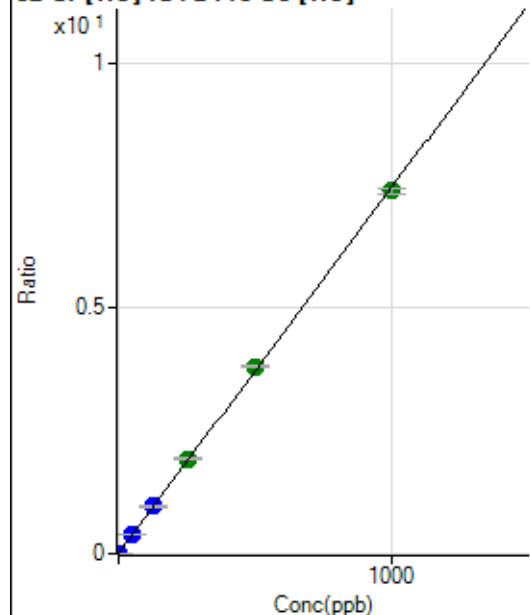
$$R = 0.9999$$

$$DL = 0.003943$$

$$BEC = 0.003375$$

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	4469.60	0.0035	P	2.6
2	☐	2.000	2.075	24033.66	0.0190	P	1.0
3	☐	50.000	51.282	486082.61	0.3861	P	0.8
4	☐	125.000	128.557	1197486.21	0.9626	P	0.6
5	☐	250.000	259.371	2370665.87	1.9385	A	3.6
6	☐	500.000	511.974	4593871.77	3.8230	A	1.2
7	☐	1000.000	991.161	9129984.58	7.3978	A	1.8
8	☐			17564.76	0.0147	P	1.9

$$y = 0.0075 * x + 0.0035$$

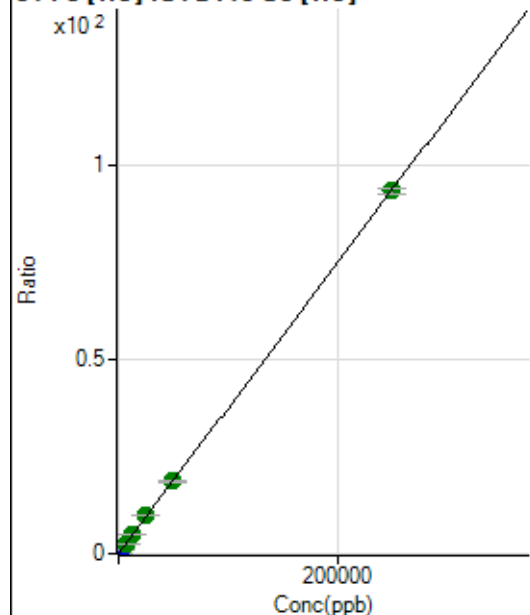
$$R = 0.9998$$

$$DL = 0.03748$$

$$BEC = 0.4753$$

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	5532.17	0.0044	P	2.7
2	☐	50.000	54.206	31114.38	0.0246	P	1.3
3	☐	2500.000	2698.290	1274332.68	1.0123	P	0.7
4	☐	6250.000	6708.531	3122767.42	2.5102	A	0.3
5	☐	12500.000	13238.456	6053673.45	4.9493	A	2.5
6	☐	25000.000	25942.471	11649648.71	9.6945	A	0.7
7	☐	50000.000	49971.661	23041016.32	18.6700	A	1.8
8	☐	250000.00	249861.05	111410430.56	93.3333	A	1.4

$$y = 3.7352E-004 * x + 0.0044$$

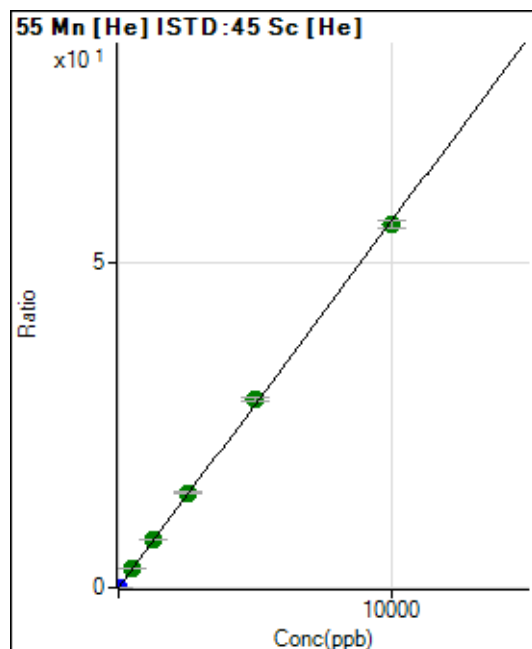
$$R = 1.0000$$

$$DL = 0.9491$$

$$BEC = 11.75$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1673.44	0.0013	P	2.7
2	☐	1.000	1.060	9248.46	0.0073	P	1.2
3	☐	500.000	526.456	3749844.87	2.9787	A	1.1
4	☐	1250.000	1312.526	9235610.69	7.4243	A	1.2
5	☐	2500.000	2591.166	17924574.04	14.6555	A	2.9
6	☐	5000.000	5140.154	34932572.81	29.0712	A	1.1
7	☐	10000.000	9897.993	69082980.64	55.9789	A	2.1
8	☐			36067.59	0.0302	P	1.6

$$y = 0.0057 * x + 0.0013$$

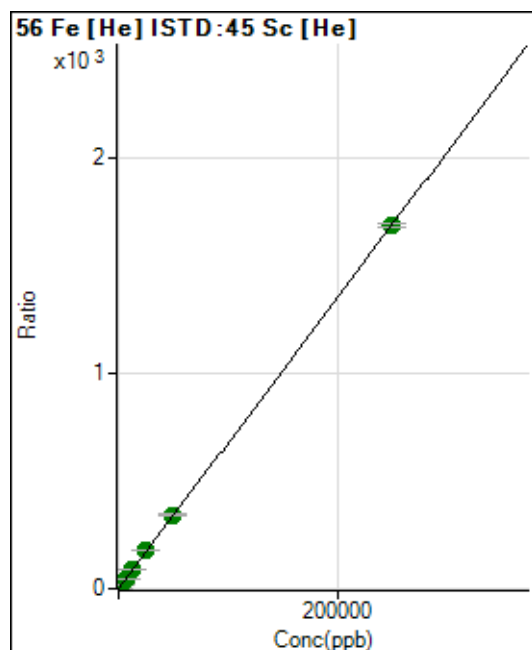
$$R = 0.9998$$

$$DL = 0.01905$$

$$BEC = 0.2347$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58933.78	0.0468	P	1.1
2	☐	50.000	54.206	520862.37	0.4124	P	1.0
3	☐	2500.000	2655.575	22610555.22	17.9606	A	0.5
4	☐	6250.000	6686.278	56168314.16	45.1507	A	0.3
5	☐	12500.000	13030.663	107571611.73	87.9483	A	2.7
6	☐	25000.000	26101.827	211624003.51	176.1230	A	1.6
7	☐	50000.000	50354.484	419218878.20	339.7252	A	2.5
8	☐	250000.00	249779.92	2011396236.6	1,684.997	A	0.9

$$y = 0.0067 * x + 0.0468$$

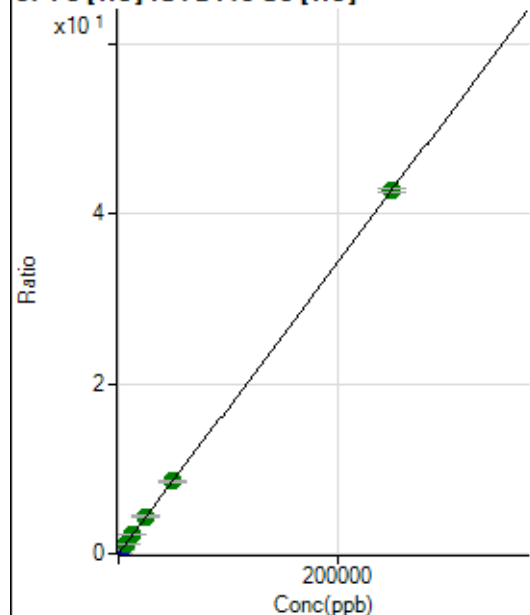
$$R = 1.0000$$

$$DL = 0.2236$$

$$BEC = 6.931$$

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	2464.67	0.0020	P	6.0
2	☐	50.000	56.149	14584.96	0.0115	P	1.3
3	☐	2500.000	2670.829	576884.10	0.4582	P	0.7
4	☐	6250.000	6658.921	1417672.10	1.1396	A	1.3
5	☐	12500.000	13004.193	2719765.95	2.2236	A	2.8
6	☐	25000.000	25729.858	5284295.68	4.3977	A	1.5
7	☐	50000.000	49819.995	10506171.86	8.5133	A	2.3
8	☐	250000.00	249925.87	50971119.79	42.6999	A	0.9

$$y = 1.7084\text{E-}004 * x + 0.0020$$

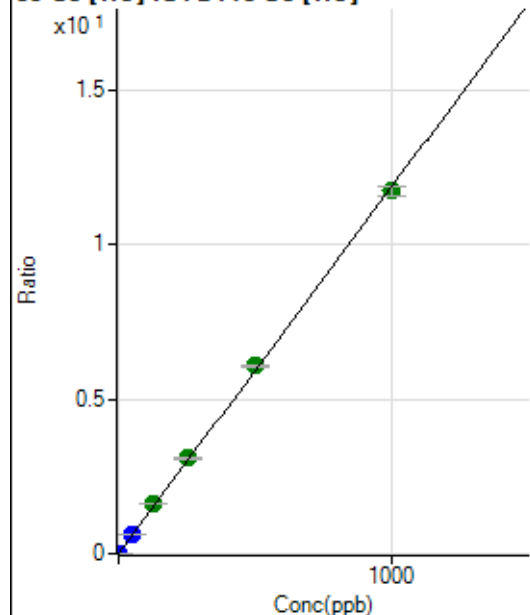
$$R = 1.0000$$

$$DL = 2.053$$

$$BEC = 11.44$$

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	415.57	0.0003	P	9.6
2	☐	1.000	1.083	16661.58	0.0132	P	1.0
3	☐	50.000	52.319	782473.20	0.6216	P	1.0
4	☐	125.000	134.767	1991119.97	1.6005	A	0.2
5	☐	250.000	261.312	3795680.57	3.1031	A	2.3
6	☐	500.000	512.432	7311554.33	6.0848	A	1.3
7	☐	1000.000	989.619	14499886.17	11.7509	A	2.9
8	☐			36905.38	0.0309	P	0.9

$$y = 0.0119 * x + 3.2956\text{E-}004$$

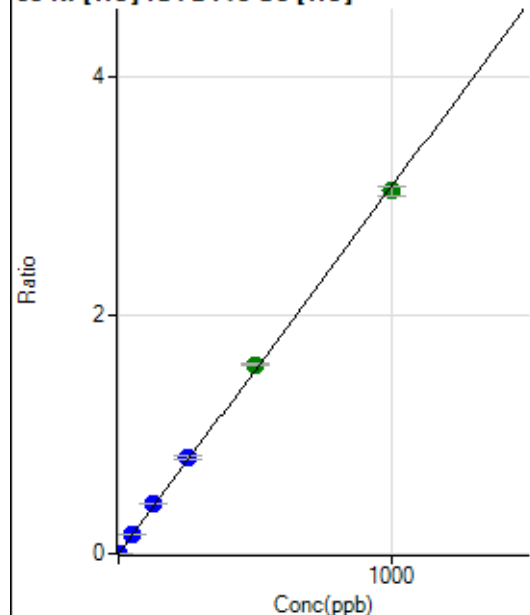
$$R = 0.9998$$

$$DL = 0.00798$$

$$BEC = 0.02776$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	673.36	0.0005	P	3.5
2	☐	1.000	1.038	4707.45	0.0037	P	2.4
3	☐	50.000	52.492	203960.35	0.1620	P	0.4
4	☐	125.000	138.400	530323.82	0.4263	P	0.3
5	☐	250.000	260.680	981356.35	0.8025	P	3.4
6	☐	500.000	514.114	1901171.72	1.5821	A	1.3
7	☐	1000.000	988.474	3753264.39	3.0414	A	2.7
8	☐			10700.58	0.0090	P	2.7

$$y = 0.0031 * x + 5.3413E-004$$

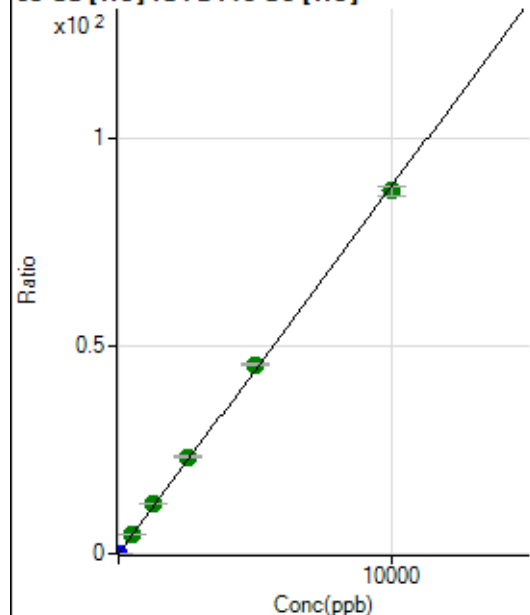
$$R = 0.9997$$

$$DL = 0.01842$$

$$BEC = 0.1736$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1983.48	0.0016	P	4.0
2	☐	2.000	2.012	24484.55	0.0194	P	0.2
3	☐	500.000	542.773	6051552.62	4.8070	A	0.1
4	☐	1250.000	1343.643	14800502.97	11.8976	A	1.0
5	☐	2500.000	2643.554	28629321.24	23.4063	A	2.6
6	☐	5000.000	5142.504	54710678.63	45.5309	A	1.2
7	☐	10000.000	9879.015	107930152.84	87.4657	A	2.8
8	☐			18335.79	0.0154	P	0.7

$$y = 0.0089 * x + 0.0016$$

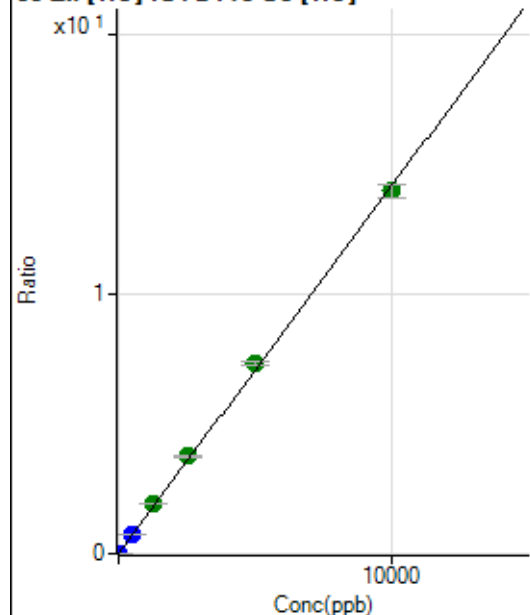
$$R = 0.9997$$

$$DL = 0.0215$$

$$BEC = 0.1777$$

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	2316.87	0.0018	P	6.6
2	☐	2.000	5.390	11968.21	0.0095	P	4.3
3	☐	500.000	532.026	951437.32	0.7558	P	0.5
4	☐	1250.000	1343.624	2370917.62	1.9059	A	1.0
5	☐	2500.000	2645.416	4587664.45	3.7507	A	2.4
6	☐	5000.000	5159.718	8787625.22	7.3137	A	1.9
7	☐	10000.000	9870.482	17260566.55	13.9893	A	3.4
8	☐			6877.20	0.0058	P	4.5

$$y = 0.0014 * x + 0.0018$$

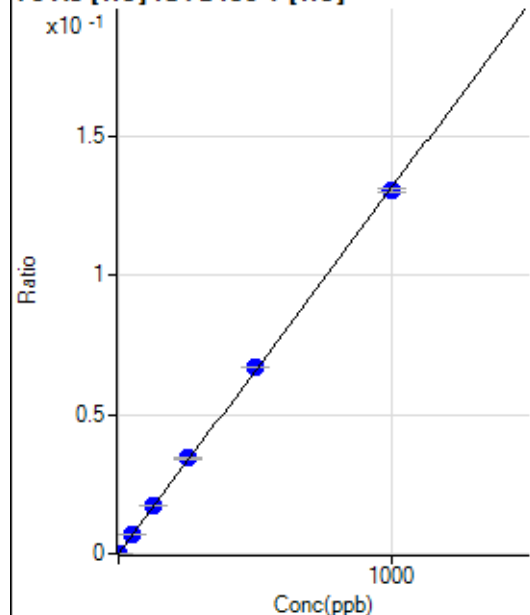
$$R = 0.9997$$

$$DL = 0.2584$$

$$BEC = 1.297$$

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	17.78	0.0000	P	47.
2	☐	1.000	1.049	1255.62	0.0001	P	9.0
3	☐	50.000	52.563	62311.19	0.0069	P	0.9
4	☐	125.000	131.769	154293.15	0.0173	P	0.9
5	☐	250.000	260.332	299268.86	0.0342	P	0.3
6	☐	500.000	509.027	581262.67	0.0669	P	0.0
7	☐	1000.000	991.929	1156339.50	0.1303	P	1.0
8	☐			626.68	0.0001	P	11.

$$y = 1.3136E-004 * x + 1.9690E-006$$

$$R = 0.9999$$

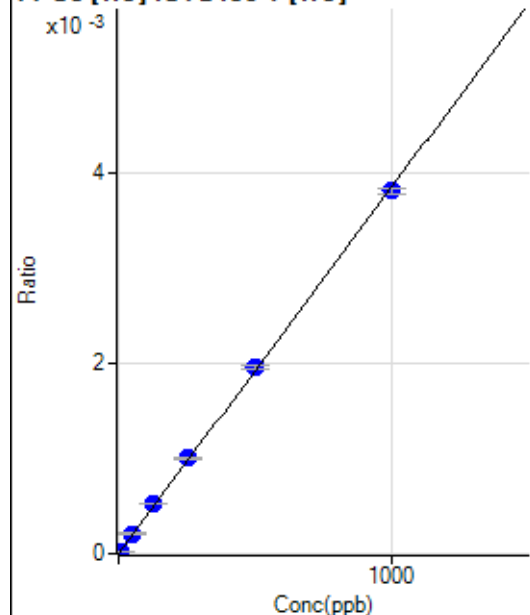
$$DL = 0.02127$$

$$BEC = 0.01499$$

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	0.00	0.0000	P	
2	☐	5.000	5.412	186.67	0.0000	P	14.
3	☐	50.000	54.084	1873.48	0.0002	P	4.2
4	☐	125.000	135.877	4649.65	0.0005	P	2.5
5	☐	250.000	260.660	8758.22	0.0010	P	1.4
6	☐	500.000	510.944	17052.14	0.0020	P	1.8
7	☐	1000.000	990.297	33740.65	0.0038	P	1.5
8	☐			3.33	0.0000	P	0.8

$$y = 3.8395\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

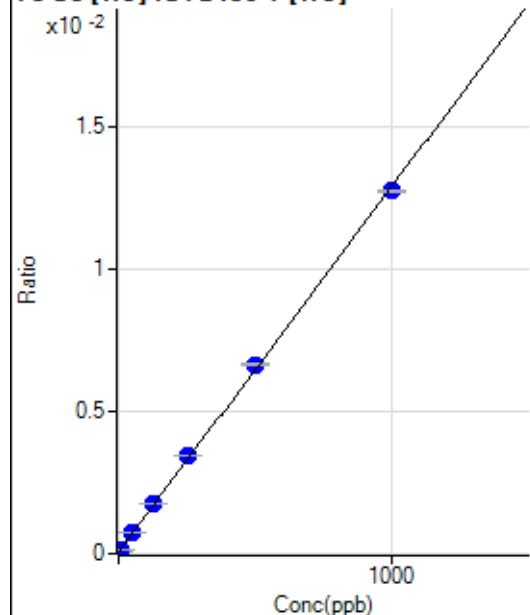
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	515.57	0.0001	P	9.1
2	☐	5.000	4.646	1047.83	0.0001	P	9.6
3	☐	50.000	53.066	6654.87	0.0007	P	1.3
4	☐	125.000	133.381	15754.03	0.0018	P	1.1
5	☐	250.000	263.425	30060.57	0.0034	P	1.1
6	☐	500.000	512.728	57654.94	0.0066	P	1.0
7	☐	1000.000	989.080	113073.03	0.0127	P	0.4
8	☐			536.69	0.0001	P	8.8

$$y = 1.2824\text{E-}005 * x + 5.7088\text{E-}005$$

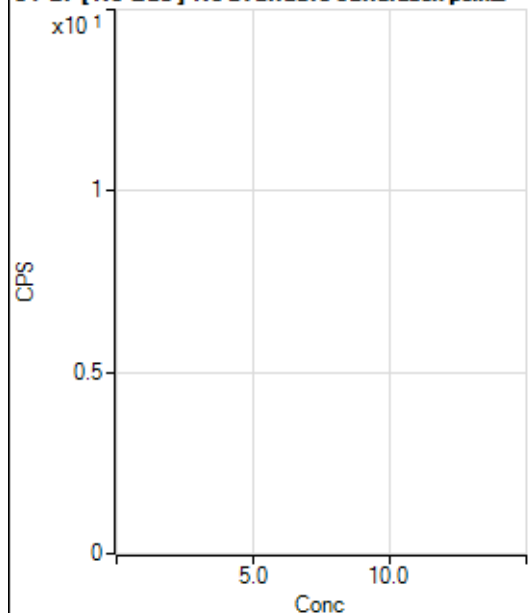
$$R = 0.9998$$

$$DL = 1.212$$

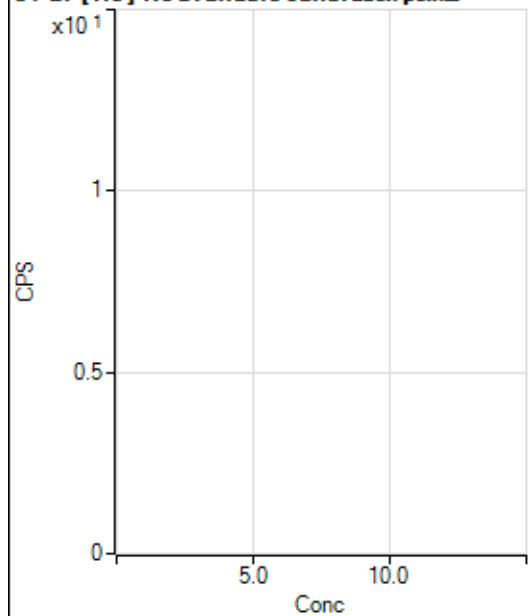
$$BEC = 4.452$$

Weight: <None>

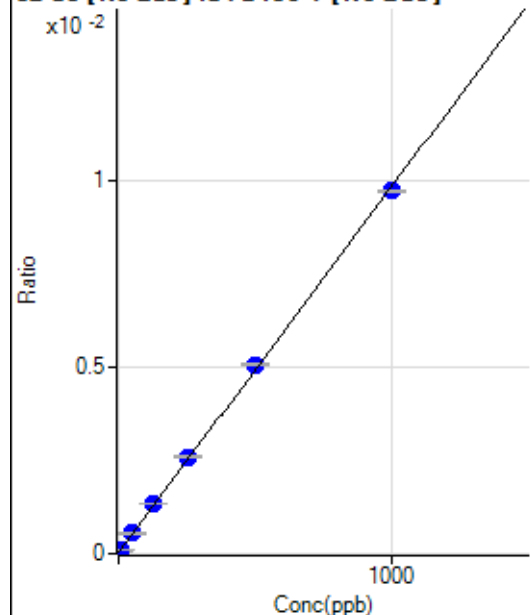
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13760.95		P	1.0
2	☐			14392.66		P	0.7
3	☐			14145.75		P	2.1
4	☐			14178.00		P	0.9
5	☐			13742.03		P	2.2
6	☐			13234.92		P	1.2
7	☐			13828.78		P	2.4
8	☐			15526.04		P	1.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			106.67		P	19.
2	☐			154.45		P	20.
3	☐			107.78		P	12.
4	☐			113.33		P	19.
5	☐			96.67		P	11.
6	☐			122.22		P	12.
7	☐			153.34		P	9.5
8	☐			187.78		P	10.

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	977.19	0.0000	P	9.0
2	☐	5.000	5.232	2836.13	0.0001	P	2.5
3	☐	50.000	52.950	19572.25	0.0005	P	2.8
4	☐	125.000	132.535	47485.56	0.0013	P	0.6
5	☐	250.000	262.445	91587.68	0.0026	P	1.4
6	☐	500.000	513.668	174033.67	0.0051	P	1.3
7	☐	1000.000	988.964	339470.67	0.0097	P	0.5
8	☐			1245.33	0.0000	P	4.5

$$y = 9.7870\text{E-}006 * x + 2.7399\text{E-}005$$

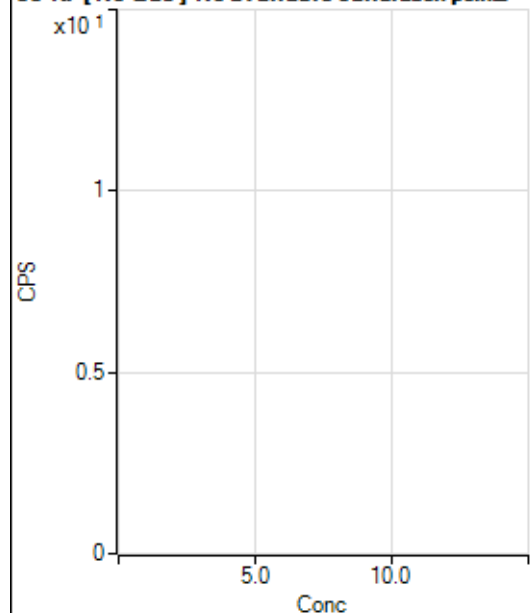
$$R = 0.9998$$

$$DL = 0.759$$

$$BEC = 2.8$$

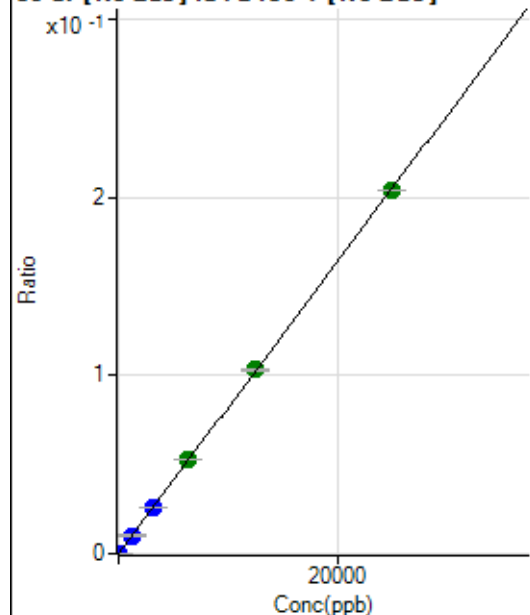
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			297.78		P	14.
2	☐			336.67		P	9.8
3	☐			330.01		P	16.
4	☐			310.01		P	2.8
5	☐			308.89		P	9.1
6	☐			377.79		P	4.2
7	☐			350.01		P	17.
8	☐			392.23		P	6.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	544.46	0.0000	P	5.5
2	☐	1.000	24.976	7931.09	0.0002	P	2.9
3	☐	1250.000	1244.769	366233.01	0.0102	P	2.8
4	☐	3125.000	3119.607	916486.35	0.0256	P	0.7
5	☐	6250.000	6439.086	1861083.22	0.0527	A	1.0
6	☐	12500.000	12634.169	3563099.42	0.1035	A	0.8
7	☐	25000.000	24886.579	7128765.52	0.2038	A	0.1
8	☐			23054.77	0.0007	P	1.5

$$y = 8.1897E-006 * x + 1.5265E-005$$

R = 0.9999

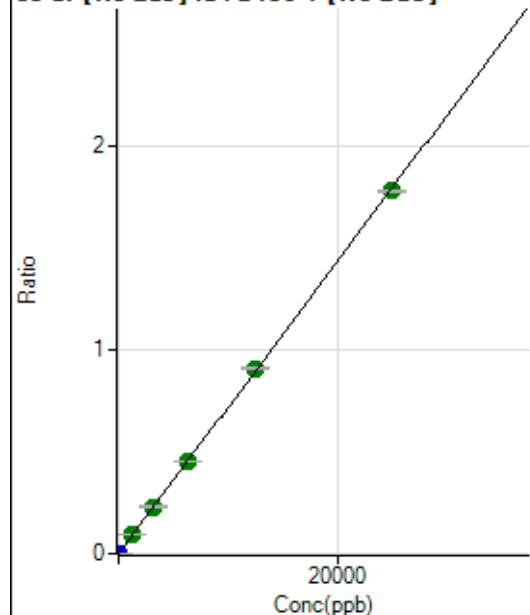
DL = 0.3101

BEC = 1.864

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	592.24	0.0000	P	1.4
2	☐	1.000	25.422	66287.47	0.0018	P	0.8
3	☐	1250.000	1274.449	3274776.31	0.0913	A	2.4
4	☐	3125.000	3219.428	8266283.77	0.2306	A	1.5
5	☐	6250.000	6360.587	16071836.43	0.4555	A	1.0
6	☐	12500.000	12684.612	31278411.76	0.9084	A	1.0
7	☐	25000.000	24867.020	62287819.07	1.7809	A	0.6
8	☐			200233.21	0.0058	P	0.2

$$y = 7.1616E-005 * x + 1.6606E-005$$

R = 0.9999

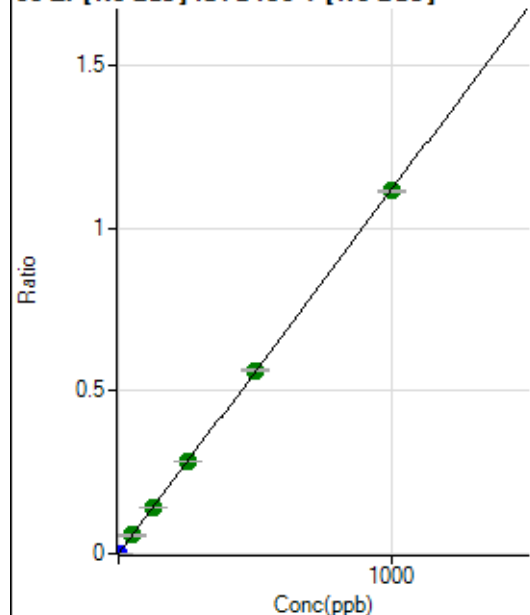
DL = 0.009892

BEC = 0.2319

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	3304.84	0.0001	P	1.0
2	☐	1.000	0.995	43496.43	0.0012	P	0.9
3	☐	50.000	50.443	2028243.29	0.0565	A	1.6
4	☐	125.000	128.596	5162224.72	0.1440	A	0.7
5	☐	250.000	254.393	10046774.85	0.2848	A	0.3
6	☐	500.000	503.326	19395880.82	0.5633	A	0.8
7	☐	1000.000	996.767	39012213.31	1.1155	A	0.9
8	☐			23343.06	0.0007	P	2.6

$$y = 0.0011 * x + 9.2663E-005$$

$$R = 1.0000$$

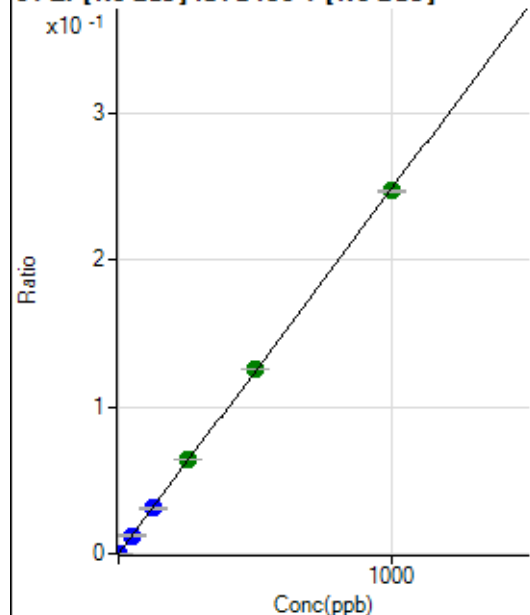
$$DL = 0.002438$$

$$BEC = 0.08281$$

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	735.58	0.0000	P	6.3
2	☐	1.000	0.979	9519.82	0.0003	P	2.2
3	☐	50.000	49.347	440454.98	0.0123	P	2.8
4	☐	125.000	124.379	1108395.72	0.0309	P	1.0
5	☐	250.000	258.072	2262486.08	0.0641	A	0.5
6	☐	500.000	506.731	4334814.69	0.1259	A	0.4
7	☐	1000.000	994.727	8642705.15	0.2471	A	0.8
8	☐			5186.53	0.0002	P	3.2

$$y = 2.4841E-004 * x + 2.0626E-005$$

$$R = 0.9999$$

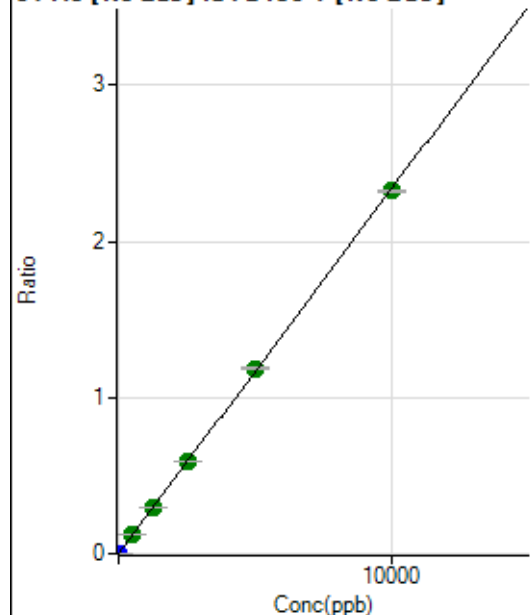
$$DL = 0.01559$$

$$BEC = 0.08303$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1227.84	0.0000	P	4.7
2	☐	5.000	5.769	49873.39	0.0014	P	0.4
3	☐	500.000	507.127	4251504.14	0.1185	A	2.4
4	☐	1250.000	1283.202	10749277.48	0.2998	A	0.6
5	☐	2500.000	2548.908	21011888.02	0.5956	A	0.3
6	☐	5000.000	5072.992	40809252.72	1.1853	A	1.2
7	☐	10000.000	9946.770	81276537.12	2.3240	A	0.8
8	☐			19071.42	0.0006	P	7.6

$$y = 2.3364\text{E-}004 * x + 3.4424\text{E-}005$$

$$R = 0.9999$$

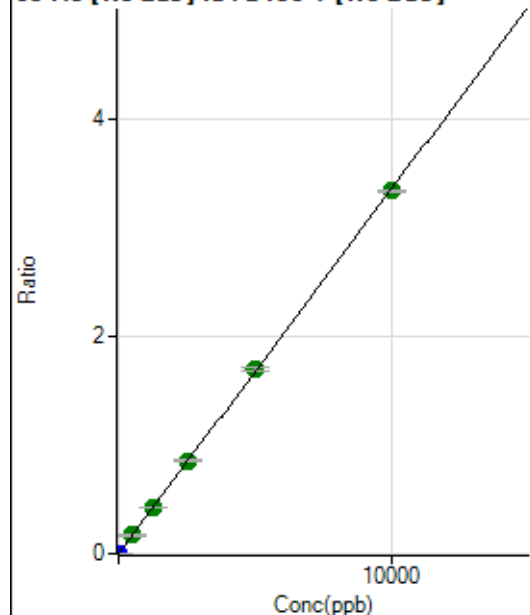
$$DL = 0.02087$$

$$BEC = 0.1473$$

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	96.67	0.0000	P	41.
2	☐	5.000	4.894	59360.82	0.0016	P	0.5
3	☐	500.000	504.338	6071921.37	0.1693	A	1.6
4	☐	1250.000	1278.374	15380779.91	0.4290	A	0.9
5	☐	2500.000	2553.113	30229857.33	0.8568	A	0.6
6	☐	5000.000	5067.490	58553815.79	1.7006	A	1.3
7	☐	10000.000	9949.213	116776276.04	3.3389	A	0.3
8	☐			16835.44	0.0005	P	12.

$$y = 3.3560\text{E-}004 * x + 2.7097\text{E-}006$$

$$R = 0.9999$$

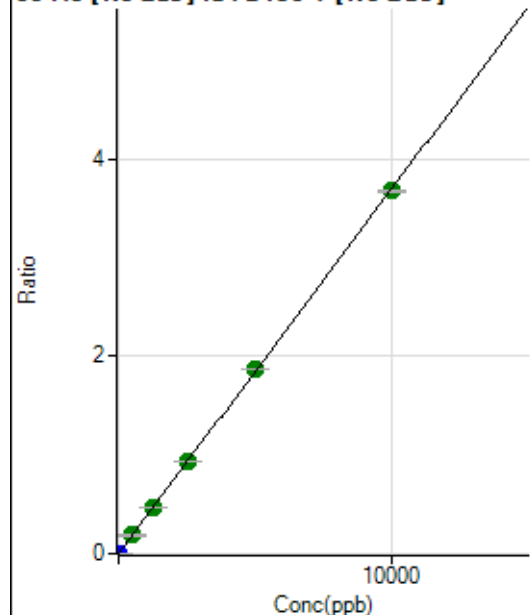
$$DL = 0.01013$$

$$BEC = 0.008074$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.34	0.0000	P	11.
2	☐	5.000	4.979	66733.33	0.0018	P	0.3
3	☐	500.000	505.095	6692091.29	0.1866	A	2.0
4	☐	1250.000	1278.821	16932292.94	0.4723	A	1.1
5	☐	2500.000	2544.164	33150671.73	0.9396	A	0.1
6	☐	5000.000	5064.647	64402752.93	1.8705	A	0.9
7	☐	10000.000	9952.778	128556545.86	3.6758	A	0.3
8	☐			35435.30	0.0010	P	8.1

$$y = 3.6932\text{E-}004 * x + 1.0750\text{E-}005$$

$$R = 1.0000$$

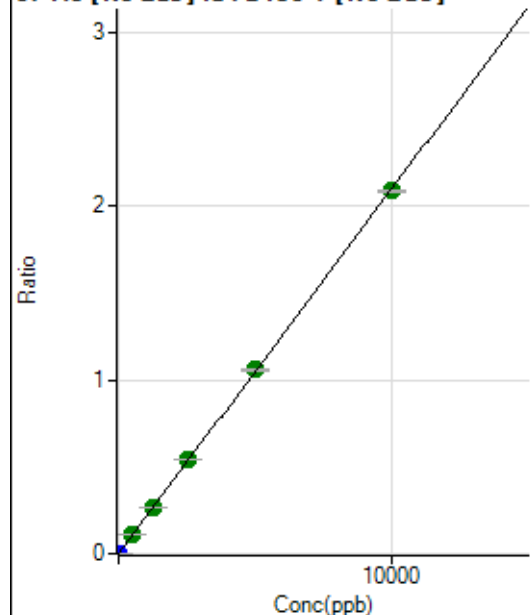
$$DL = 0.009675$$

$$BEC = 0.02911$$

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	46.67	0.0000	P	37.
2	☐	5.000	4.966	37611.63	0.0010	P	0.5
3	☐	500.000	510.938	3843028.34	0.1071	A	2.6
4	☐	1250.000	1284.070	9652340.27	0.2692	A	0.9
5	☐	2500.000	2566.268	18984400.14	0.5381	A	0.2
6	☐	5000.000	5049.200	36452429.45	1.0587	A	0.7
7	☐	10000.000	9954.027	72995065.02	2.0871	A	0.4
8	☐			10660.67	0.0003	P	12.

$$y = 2.0968\text{E-}004 * x + 1.3082\text{E-}006$$

$$R = 1.0000$$

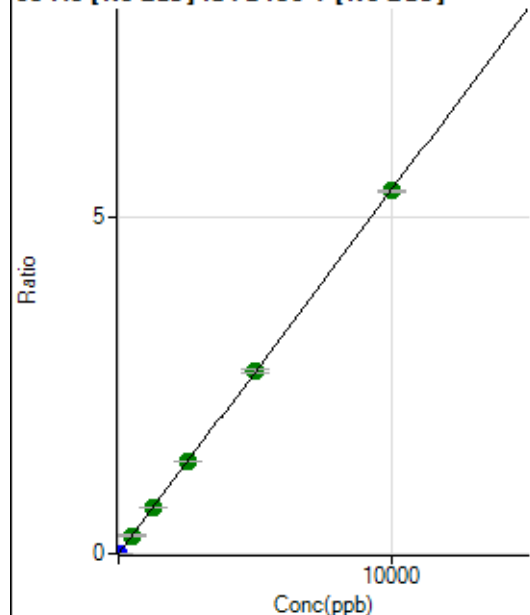
$$DL = 0.007057$$

$$BEC = 0.006239$$

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	120.00	0.0000	P	21.
2	☐	5.000	4.884	95580.88	0.0026	P	0.3
3	☐	500.000	500.979	9735676.66	0.2714	A	2.2
4	☐	1250.000	1274.498	24752638.24	0.6904	A	0.6
5	☐	2500.000	2533.133	48416129.28	1.3723	A	0.4
6	☐	5000.000	5022.970	93690405.27	2.7211	A	1.2
7	☐	10000.000	9977.121	189033557.18	5.4049	A	0.4
8	☐			26222.90	0.0008	P	14.

$$y = 5.4173\text{E-}004 * x + 3.3651\text{E-}006$$

$$R = 1.0000$$

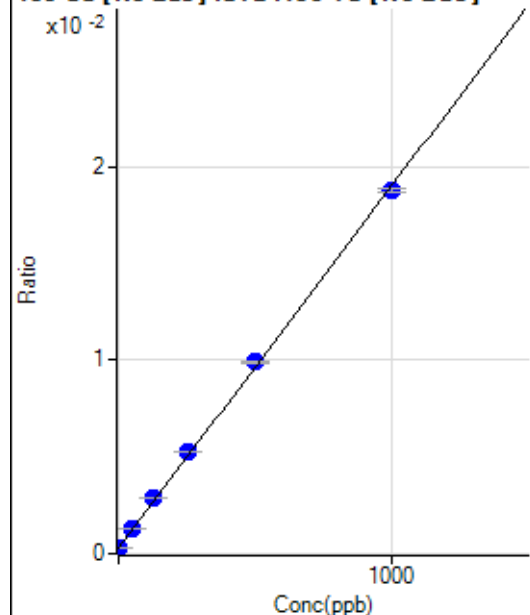
$$DL = 0.004058$$

$$BEC = 0.006212$$

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	9203.00	0.0003	P	2.6
2	☐	1.000	1.966	10548.33	0.0003	P	1.1
3	☐	50.000	54.920	42603.43	0.0013	P	1.7
4	☐	125.000	136.664	91938.42	0.0028	P	0.9
5	☐	250.000	265.761	168110.55	0.0053	P	0.3
6	☐	500.000	514.551	313158.69	0.0099	P	0.6
7	☐	1000.000	987.079	608887.19	0.0187	P	0.9
8	☐			8982.84	0.0003	P	1.1

$$y = 1.8686\text{E-}005 * x + 2.9171\text{E-}004$$

$$R = 0.9997$$

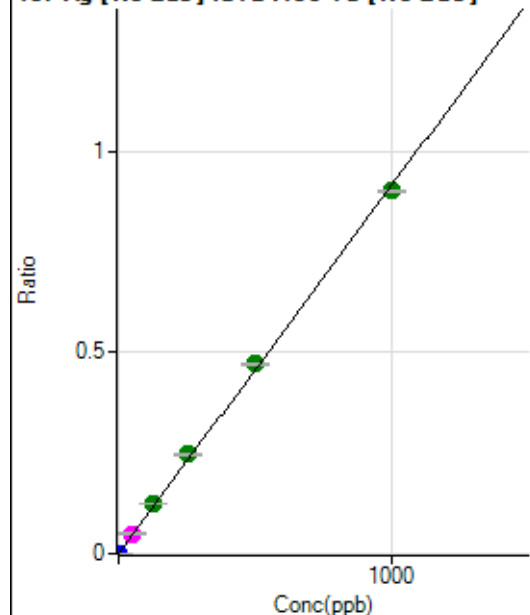
$$DL = 1.222$$

$$BEC = 15.61$$

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	352.23	0.0000	P	5.1
2	☐	1.000	1.071	31800.33	0.0010	P	0.8
3	☐	50.000	54.329	1605730.98	0.0497	M	3.3
4	☐	125.000	136.797	4039822.44	0.1250	A	0.1
5	☐	250.000	269.229	7867315.30	0.2460	A	0.8
6	☐	500.000	515.446	14890894.36	0.4711	A	0.7
7	☐	1000.000	985.779	29278123.17	0.9009	A	0.2
8	☐			3130.38	0.0001	P	13.

$$y = 9.1386\text{E-}004 * x + 1.1167\text{E-}005$$

$$R = 0.9996$$

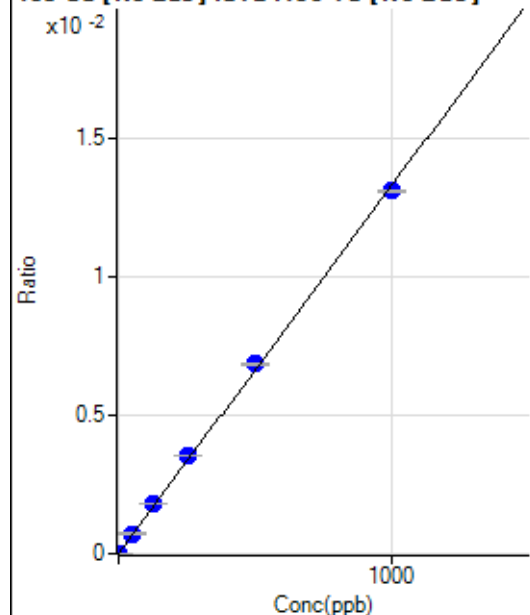
$$DL = 0.001886$$

$$BEC = 0.01222$$

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	62.
2	☐	1.000	1.200	530.01	0.0000	P	4.8
3	☐	50.000	54.356	23358.91	0.0007	P	2.0
4	☐	125.000	136.438	58569.87	0.0018	P	0.2
5	☐	250.000	265.416	112732.77	0.0035	P	0.7
6	☐	500.000	516.120	216707.80	0.0069	P	1.3
7	☐	1000.000	986.438	425799.16	0.0131	P	0.4
8	☐			202.23	0.0000	P	3.9

$$y = 1.3281\text{E-}005 * x + 5.6709\text{E-}007$$

$$R = 0.9996$$

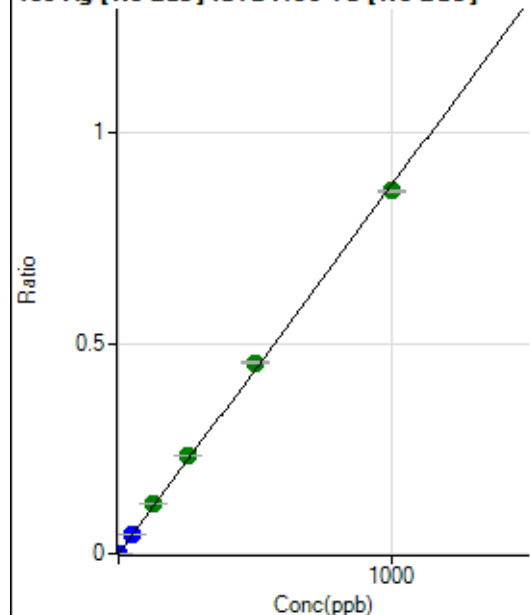
$$DL = 0.07944$$

$$BEC = 0.0427$$

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	295.56	0.0000	P	8.9
2	☐	1.000	1.060	30122.40	0.0009	P	1.2
3	☐	50.000	53.195	1507143.61	0.0466	P	1.0
4	☐	125.000	136.247	3857829.32	0.1194	A	0.4
5	☐	250.000	264.810	7419239.40	0.2320	A	0.8
6	☐	500.000	519.124	14379571.03	0.4549	A	1.0
7	☐	1000.000	985.170	28054592.08	0.8632	A	0.2
8	☐			2945.89	0.0001	P	15.

$$y = 8.7622\text{E-}004 * x + 9.3751\text{E-}006$$

$$R = 0.9996$$

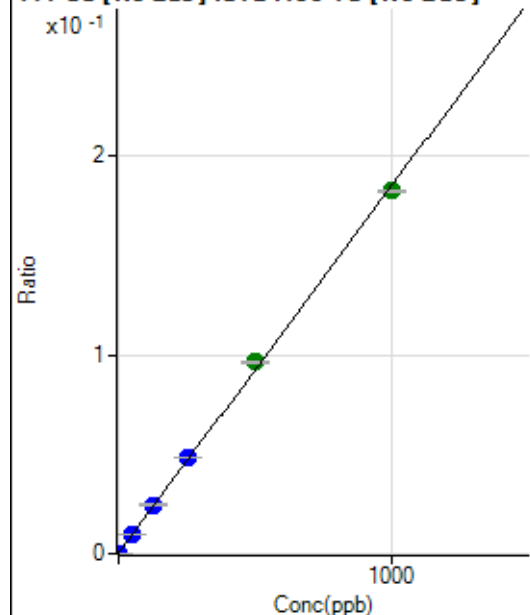
$$DL = 0.002865$$

$$BEC = 0.0107$$

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	6499.65	0.0002	P	2.5
2	☐	1.000	1.183	13633.28	0.0004	P	1.0
3	☐	50.000	52.837	322008.82	0.0100	P	1.0
4	☐	125.000	132.370	796313.40	0.0246	P	0.3
5	☐	250.000	258.624	1533291.01	0.0480	P	0.1
6	☐	500.000	520.336	3043263.46	0.0963	A	1.1
7	☐	1000.000	986.612	5926391.40	0.1824	A	0.8
8	☐			7205.36	0.0002	P	1.3

$$y = 1.8462\text{E-}004 * x + 2.0602\text{E-}004$$

$$R = 0.9996$$

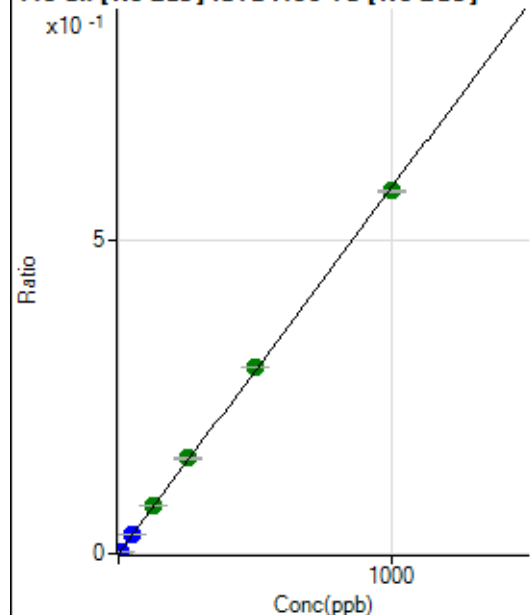
$$DL = 0.08219$$

$$BEC = 1.116$$

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	3263.76	0.0001	P	5.2
2	☐	5.000	5.279	102399.43	0.0032	P	0.7
3	☐	50.000	51.347	973345.61	0.0301	P	1.4
4	☐	125.000	130.713	2471357.05	0.0765	A	1.1
5	☐	250.000	260.478	4870319.34	0.1523	A	0.8
6	☐	500.000	510.320	9430224.72	0.2983	A	0.6
7	☐	1000.000	991.438	18832511.39	0.5795	A	0.7
8	☐			9807.89	0.0003	P	2.7

$$y = 5.8436\text{E-}004 * x + 1.0347\text{E-}004$$

$$R = 0.9999$$

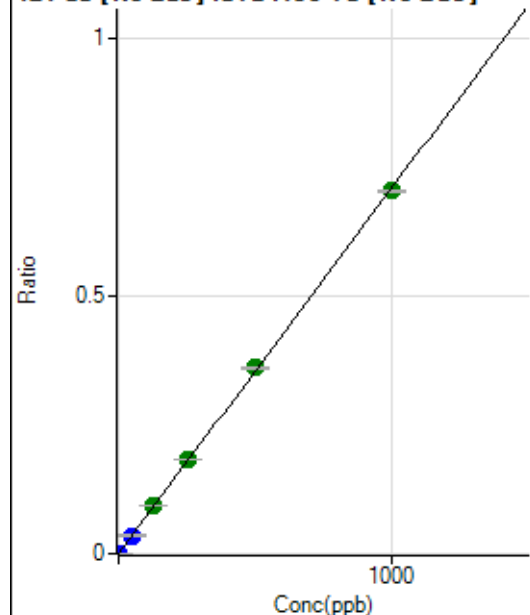
$$DL = 0.0276$$

$$BEC = 0.1771$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	68.89	0.0000	P	43.
2	☐	2.000	2.054	46914.07	0.0015	P	1.5
3	☐	50.000	49.972	1147142.17	0.0355	P	1.2
4	☐	125.000	130.622	2996799.12	0.0927	A	0.4
5	☐	250.000	258.029	5857810.26	0.1832	A	0.6
6	☐	500.000	508.270	11408091.64	0.3609	A	0.6
7	☐	1000.000	993.156	22917032.99	0.7052	A	0.2
8	☐			11426.90	0.0004	P	10.

$$y = 7.1001\text{E-}004 * x + 2.1775\text{E-}006$$

$$R = 0.9999$$

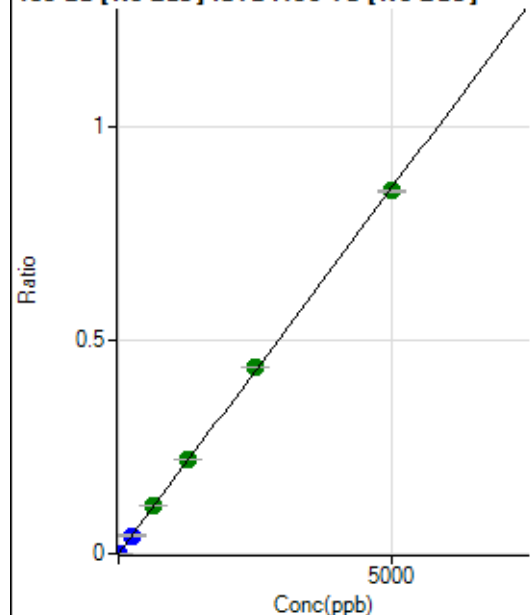
$$DL = 0.00396$$

$$BEC = 0.003067$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	242.23	0.0000	P	8.1
2	☐	10.000	10.272	56645.56	0.0018	P	1.2
3	☐	250.000	249.750	1380584.77	0.0427	P	0.9
4	☐	625.000	656.552	3627163.90	0.1123	A	0.8
5	☐	1250.000	1286.882	7034842.95	0.2200	A	0.7
6	☐	2500.000	2546.518	13762504.52	0.4354	A	0.2
7	☐	5000.000	4963.588	27578662.37	0.8486	A	0.3
8	☐			10452.82	0.0003	P	6.6

$$y = 1.7096\text{E-}004 * x + 7.6720\text{E-}006$$

$$R = 0.9999$$

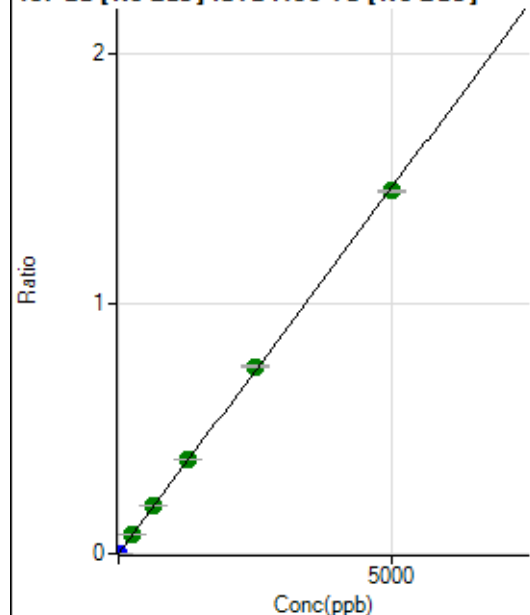
$$DL = 0.01096$$

$$BEC = 0.04488$$

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	471.12	0.0000	P	12.
2	☐	10.000	10.305	97439.73	0.0030	P	2.1
3	☐	250.000	258.253	2446588.73	0.0757	A	1.9
4	☐	625.000	650.123	6155264.21	0.1905	A	1.0
5	☐	1250.000	1291.926	12103320.93	0.3785	A	1.1
6	☐	2500.000	2554.926	23663706.59	0.7486	A	0.7
7	☐	5000.000	4958.502	47214538.19	1.4528	A	0.4
8	☐			18469.84	0.0006	P	5.0

$$y = 2.9299\text{E-}004 * x + 1.4939\text{E-}005$$

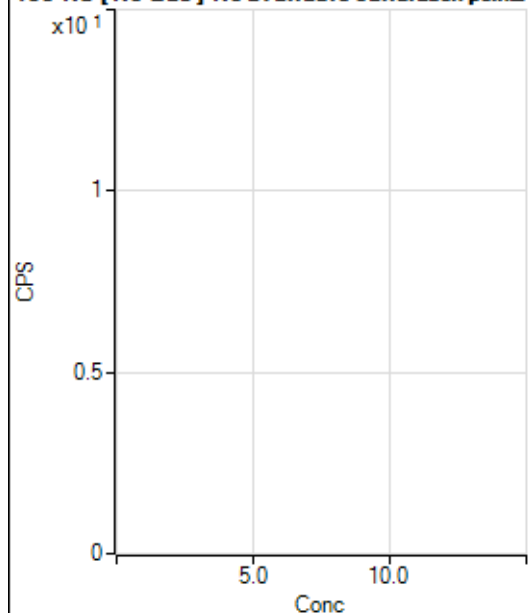
$$R = 0.9999$$

$$DL = 0.01916$$

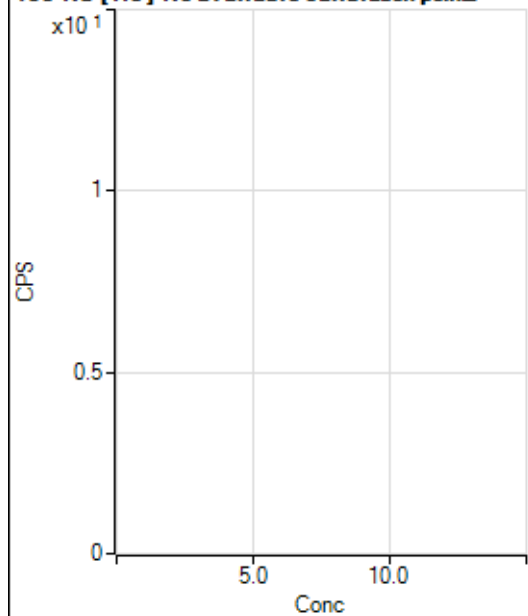
$$BEC = 0.05099$$

Weight: <None>

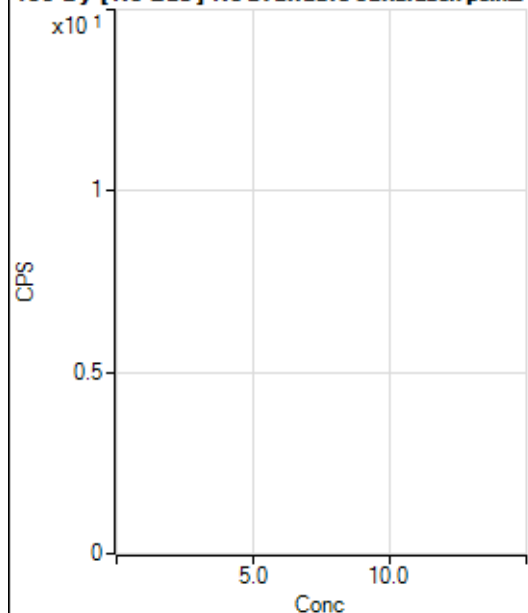
Min Conc: 0

150 Nd [No Gas] No available calibration points

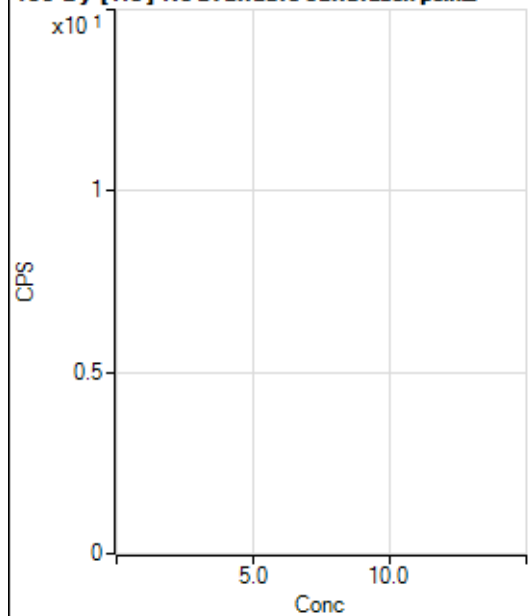
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	43.
2	☐			24.44		P	41.
3	☐			104.45		P	20.
4	☐			166.67		P	19.
5	☐			301.12		P	8.0
6	☐			615.58		P	4.7
7	☐			1201.17		P	5.5
8	☐			474.46		P	10.

150 Nd [He] No available calibration points

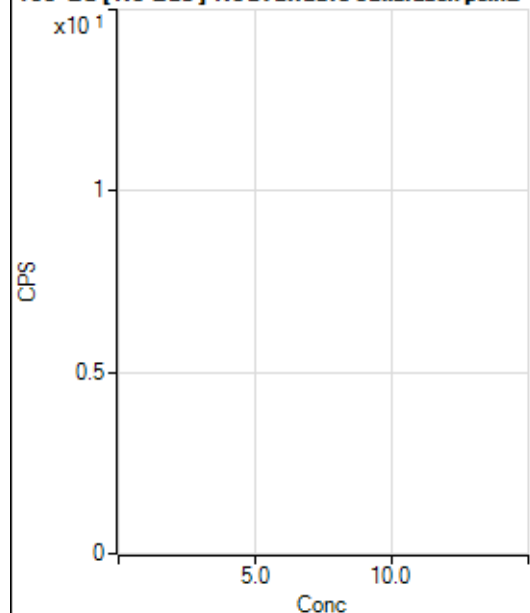
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.
2	☐			11.11		P	96.
3	☐			28.89		P	33.
4	☐			58.89		P	25.
5	☐			82.22		P	16.
6	☐			148.89		P	20.
7	☐			294.45		P	9.8
8	☐			252.23		P	10.

156 Dy [No Gas] No available calibration points

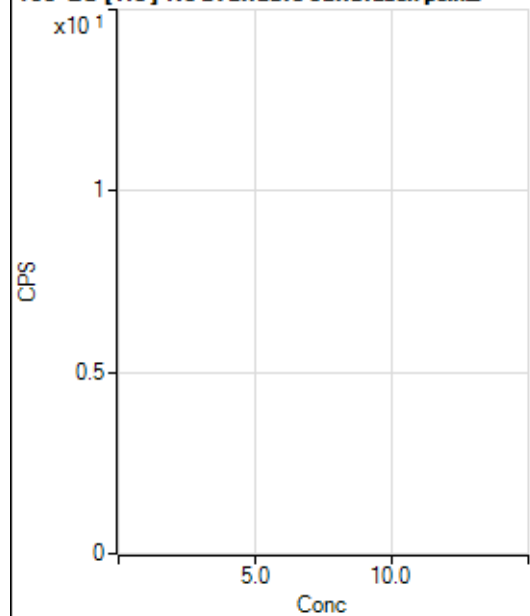
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			320.01		P	12.
2	☐			306.67		P	11.
3	☐			275.56		P	2.5
4	☐			321.12		P	6.1
5	☐			398.90		P	12.
6	☐			503.35		P	10.
7	☐			733.36		P	7.4
8	☐			1210.10		P	4.4

156 Dy [He] No available calibration points

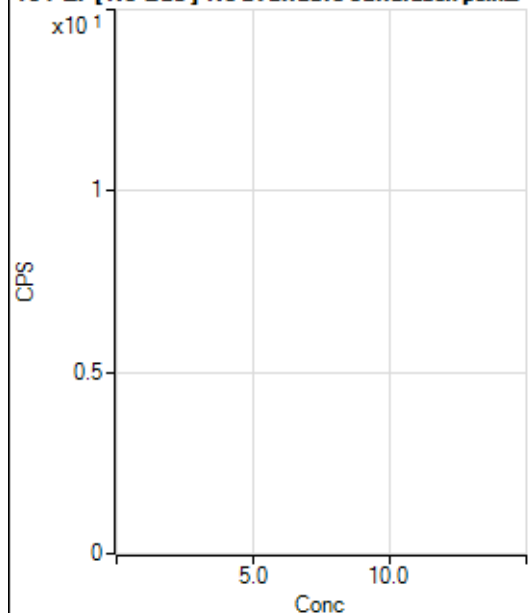
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.33		P	18.
2	☐			73.33		P	4.5
3	☐			110.00		P	10.
4	☐			233.34		P	20.
5	☐			395.56		P	11.
6	☐			666.69		P	1.5
7	☐			1223.40		P	4.6
8	☐			688.91		P	9.2

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

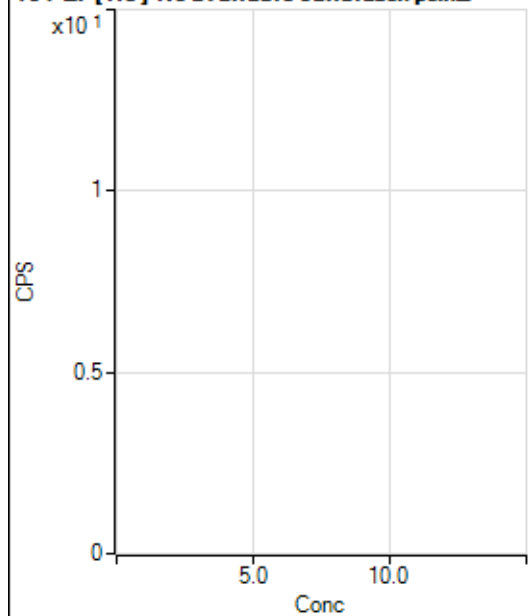
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			121.11		P	16.
2	☐			128.89		P	15.
3	☐			151.12		P	11.
4	☐			165.56		P	13.
5	☐			194.45		P	7.9
6	☐			252.23		P	4.6
7	☐			340.01		P	10.
8	☐			843.37		P	6.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1162.28		P	5.6
2	☐			1093.38		P	7.8
3	☐			1212.29		P	4.4
4	☐			1230.06		P	6.8
5	☐			1156.73		P	1.0
6	☐			1225.62		P	9.5
7	☐			1347.85		P	4.1
8	☐			1560.11		P	6.5

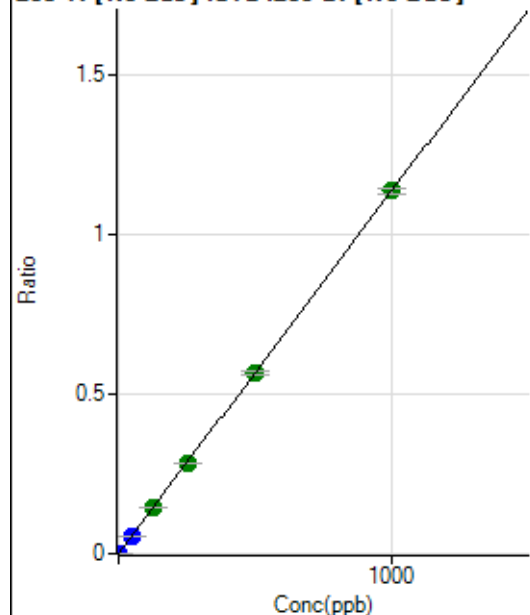
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			123.34		P	17.
2	☐			93.33		P	15.
3	☐			112.22		P	3.4
4	☐			180.00		P	9.6
5	☐			212.23		P	13.
6	☐			256.67		P	4.5
7	☐			398.90		P	5.1
8	☐			1055.61		P	4.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	17.
2	☐			91.11		P	18.
3	☐			97.78		P	22.
4	☐			104.45		P	28.
5	☐			126.67		P	16.
6	☐			168.89		P	19.
7	☐			252.23		P	4.2
8	☐			674.47		P	4.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	335.56	0.0000	P	12.
2	☐	1.000	0.956	20536.71	0.0011	P	1.0
3	☐	50.000	48.346	1019110.84	0.0550	P	2.2
4	☐	125.000	127.232	2669953.81	0.1446	A	0.1
5	☐	250.000	251.084	5212906.10	0.2854	A	0.7
6	☐	500.000	497.562	10232498.39	0.5655	A	1.6
7	☐	1000.000	1000.752	20567196.08	1.1375	A	1.8
8	☐			1606.78	0.0001	P	20.

$$y = 0.0011 * x + 1.8214E-005$$

$$R = 1.0000$$

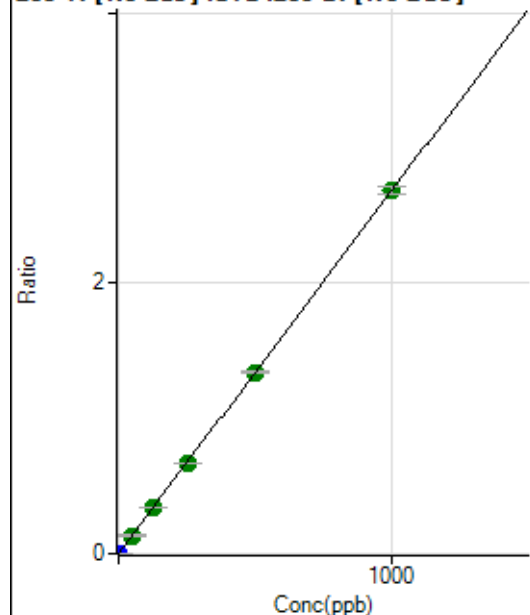
$$DL = 0.006121$$

$$BEC = 0.01602$$

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	705.58	0.0000	P	4.0
2	☐	1.000	0.967	48903.04	0.0026	P	0.6
3	☐	50.000	50.096	2492013.22	0.1344	A	2.2
4	☐	125.000	127.438	6311136.02	0.3419	A	0.6
5	☐	250.000	250.004	12249084.40	0.6706	A	0.2
6	☐	500.000	499.340	24235483.81	1.3394	A	1.1
7	☐	1000.000	1000.020	48501525.39	2.6824	A	2.0
8	☐			3846.17	0.0002	P	24.

$$y = 0.0027 * x + 3.8306E-005$$

$$R = 1.0000$$

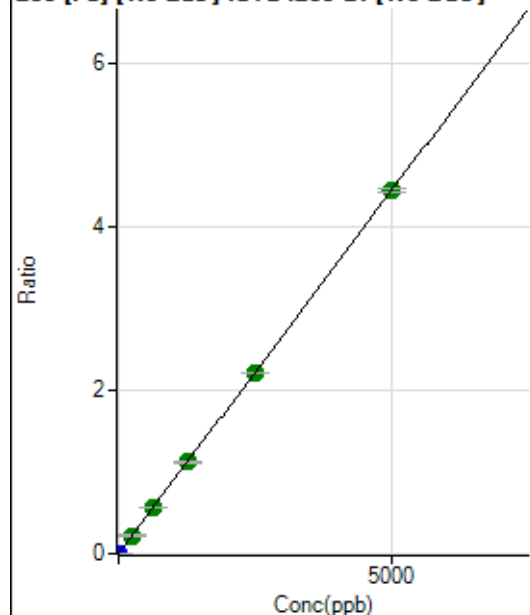
$$DL = 0.001713$$

$$BEC = 0.01428$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1268.96	0.0001	P	3.0
2	☐	1.000	0.998	17743.92	0.0010	P	1.0
3	☐	250.000	250.218	4117200.91	0.2221	A	2.8
4	☐	625.000	636.219	10421027.62	0.5645	A	0.9
5	☐	1250.000	1265.800	20513993.44	1.1231	A	1.2
6	☐	2500.000	2496.037	40073589.96	2.2146	A	0.3
7	☐	5000.000	4996.618	80165176.03	4.4331	A	0.9
8	☐			10476.40	0.0007	P	12.

$$y = 8.8720E-004 * x + 6.8903E-005$$

$$R = 1.0000$$

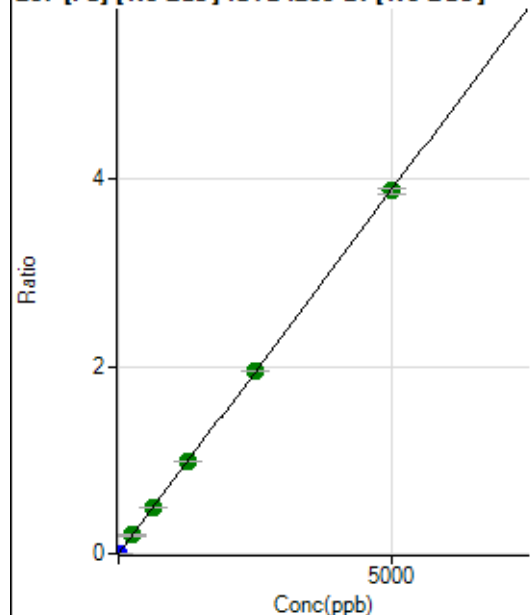
$$DL = 0.007085$$

$$BEC = 0.07766$$

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	1064.50	0.0001	P	3.3
2	☐	1.000	0.979	15197.48	0.0008	P	1.3
3	☐	250.000	252.436	3633988.21	0.1960	A	1.9
4	☐	625.000	639.719	9167537.43	0.4966	A	0.9
5	☐	1250.000	1272.798	18046664.45	0.9880	A	1.1
6	☐	2500.000	2509.578	35250409.47	1.9481	A	0.5
7	☐	5000.000	4987.550	70008105.07	3.8715	A	1.3
8	☐			8830.76	0.0006	P	10.

$$y = 7.7623E-004 * x + 5.7804E-005$$

$$R = 1.0000$$

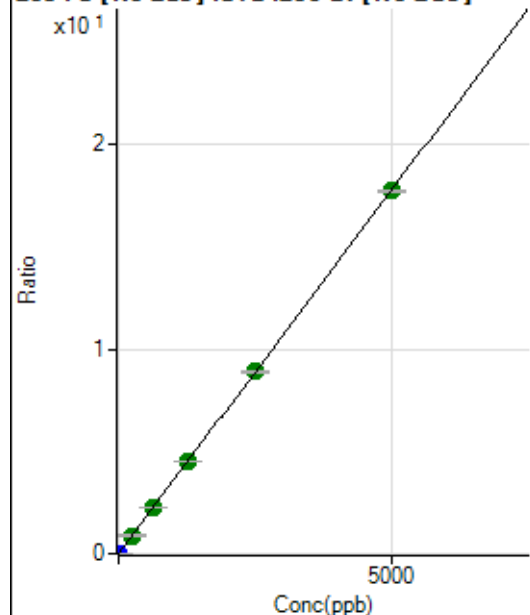
$$DL = 0.007269$$

$$BEC = 0.07447$$

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	4917.06	0.0003	P	2.5
2	☐	1.000	0.990	70267.06	0.0038	P	0.1
3	☐	250.000	250.586	16502760.87	0.8901	A	2.0
4	☐	625.000	636.164	41706680.29	2.2593	A	0.7
5	☐	1250.000	1269.792	82364561.13	4.5093	A	0.8
6	☐	2500.000	2505.724	161011933.71	8.8982	A	0.6
7	☐	5000.000	4990.765	320489330.78	17.7226	A	0.9
8	☐			40954.73	0.0026	P	12.

$$y = 0.0036 * x + 2.6699E-004$$

$$R = 1.0000$$

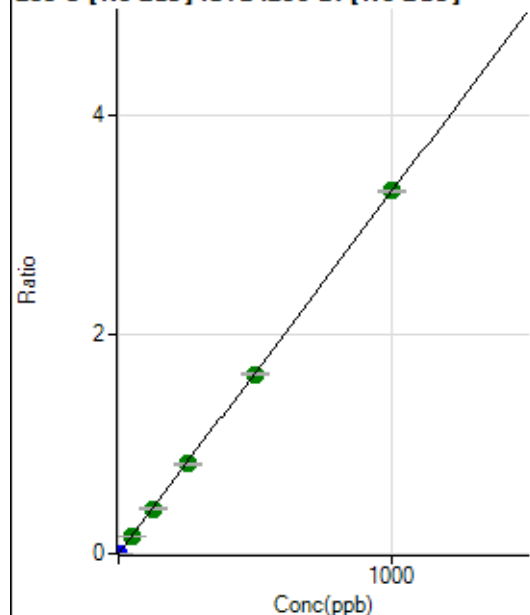
$$DL = 0.005558$$

$$BEC = 0.07519$$

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	45.56	0.0000	P	23.
2	☐	1.000	0.931	57232.66	0.0031	P	0.8
3	☐	50.000	48.565	2976216.76	0.1605	A	1.8
4	☐	125.000	124.358	7587538.71	0.4110	A	1.4
5	☐	250.000	248.128	14979849.22	0.8201	A	1.1
6	☐	500.000	496.605	29699839.28	1.6414	A	1.3
7	☐	1000.000	1002.318	59912281.88	3.3130	A	0.7
8	☐			3406.08	0.0002	P	38.

$$y = 0.0033 * x + 2.4763E-006$$

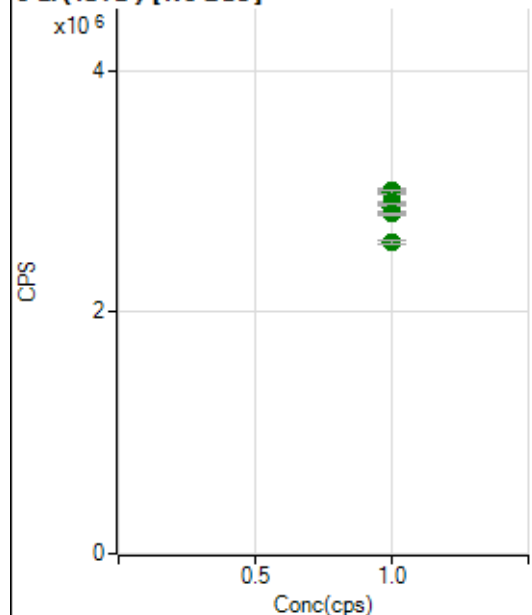
$$R = 1.0000$$

$$DL = 0.0005217$$

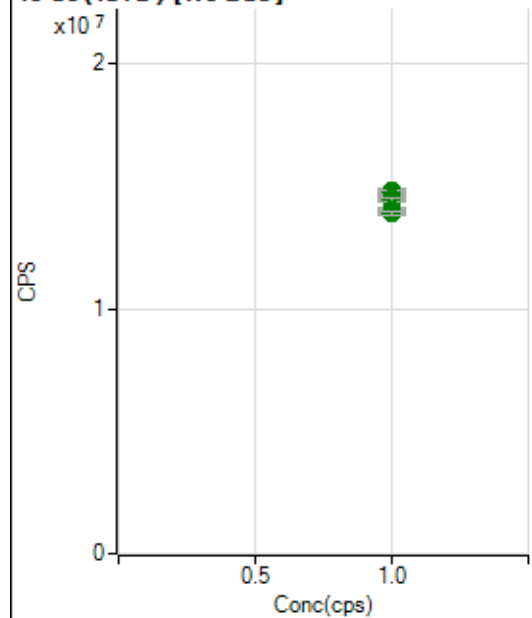
$$BEC = 0.0007492$$

Weight: <None>

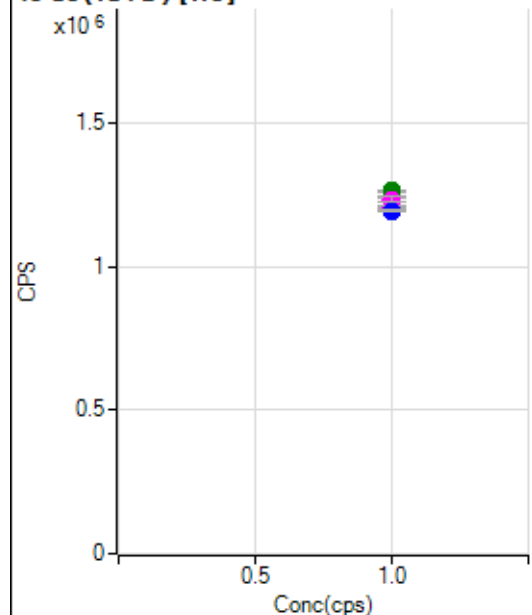
Min Conc: 0

6 Li (ISTD) [No Gas]

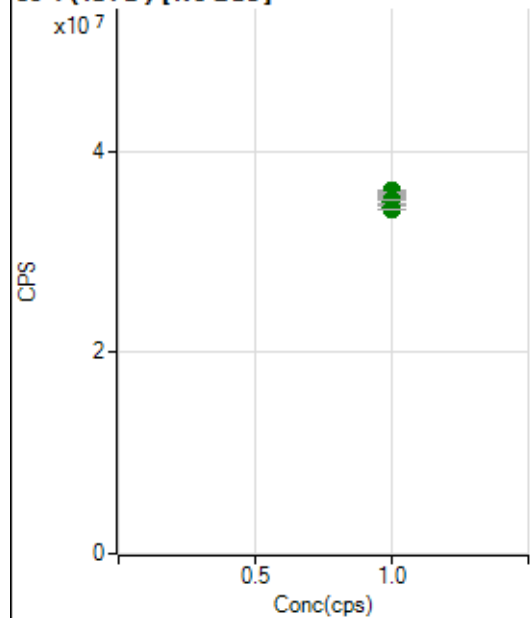
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2870244.57		A	2.3
2	☐	1.000		2991446.30		A	1.3
3	☐	1.000		3000688.50		A	1.2
4	☐	1.000		2993920.99		A	0.8
5	☐	1.000		2911888.49		A	0.3
6	☐	1.000		2887765.72		A	0.1
7	☐	1.000		2810509.52		A	0.9
8	☐	1.000		2573268.37		A	1.2

45 Sc (ISTD) [No Gas]

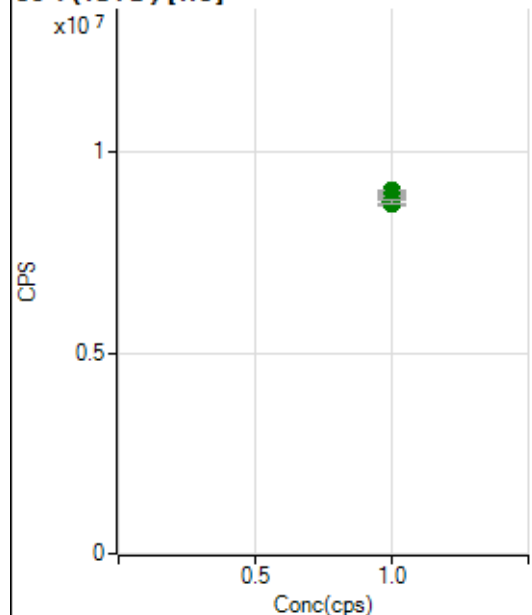
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14713214.36		A	0.9
2	☐	1.000		14824401.31		A	1.2
3	☐	1.000		14778893.25		A	0.9
4	☐	1.000		14542397.56		A	0.6
5	☐	1.000		14453548.95		A	1.0
6	☐	1.000		14082481.46		A	0.3
7	☐	1.000		13983734.24		A	0.7
8	☐	1.000		13875564.79		A	1.1

45 Sc (ISTD) [He]

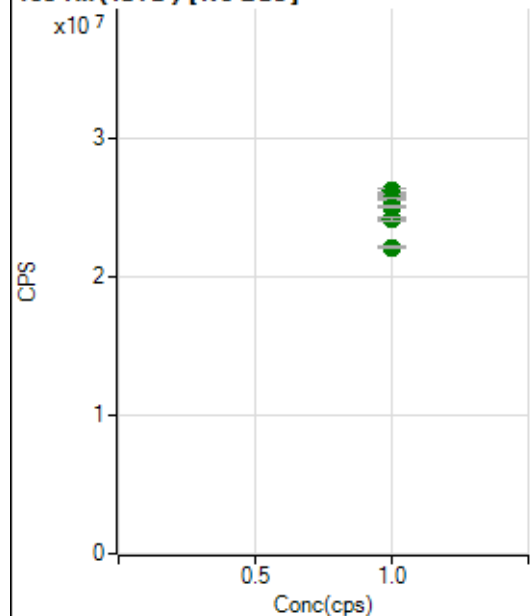
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1260529.99		A	0.8
2	☐	1.000		1262989.37		A	0.6
3	☐	1.000		1258896.71		A	0.1
4	☐	1.000		1244037.76		A	0.6
5	☐	1.000		1223738.03		M	2.9
6	☐	1.000		1201755.58		M	1.5
7	☐	1.000		1234414.75		M	2.0
8	☐	1.000		1193769.58		P	0.9

89 Y (ISTD) [No Gas]

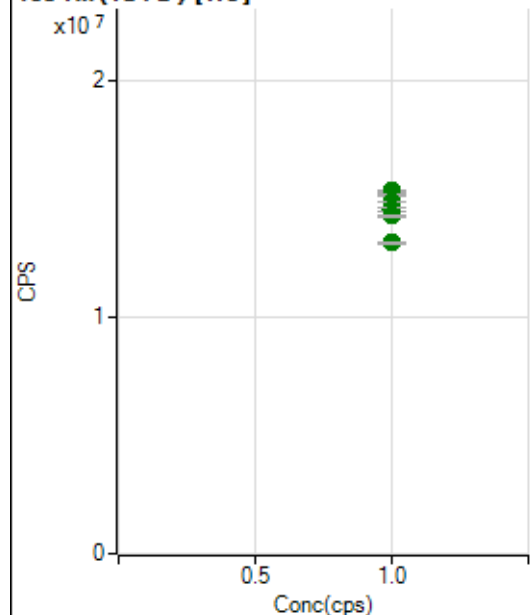
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		35665885.30		A	0.2
2	☐	1.000		36079831.68		A	0.4
3	☐	1.000		35874511.41		A	0.5
4	☐	1.000		35851485.02		A	0.7
5	☐	1.000		35281126.14		A	0.4
6	☐	1.000		34432500.60		A	0.8
7	☐	1.000		34974614.48		A	0.7
8	☐	1.000		34256463.10		A	0.3

89 Y(ISTD) [He]

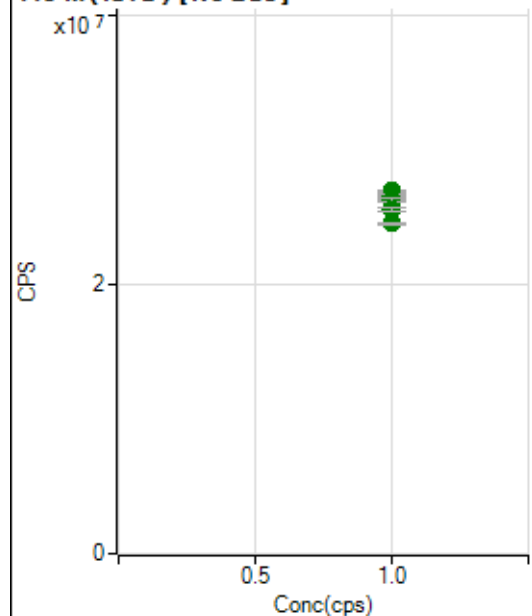
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9030976.39		A	0.3
2	☐	1.000		8981211.88		A	0.3
3	☐	1.000		9021868.96		A	0.5
4	☐	1.000		8912879.31		A	0.2
5	☐	1.000		8750679.80		A	0.8
6	☐	1.000		8692530.49		A	0.7
7	☐	1.000		8874536.95		A	0.7
8	☐	1.000		8763835.56		A	0.9

103 Rh(ISTD) [No Gas]

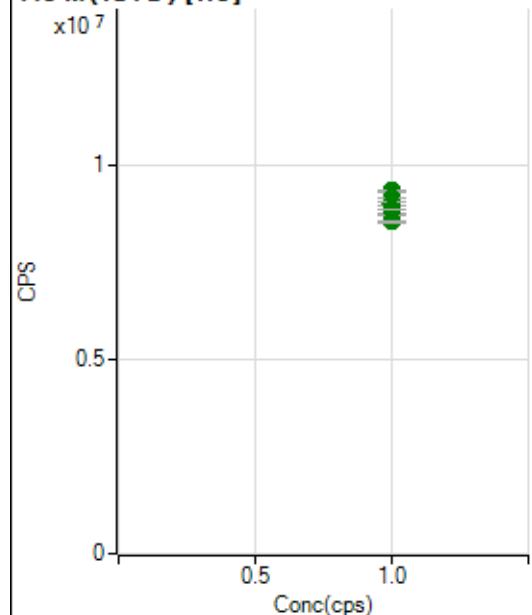
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		25785816.28		A	1.6
2	☐	1.000		26194567.39		A	1.0
3	☐	1.000		25905180.72		A	0.5
4	☐	1.000		25610945.17		A	0.7
5	☐	1.000		25036597.68		A	0.7
6	☐	1.000		24120876.87		A	0.9
7	☐	1.000		24182138.25		A	0.9
8	☐	1.000		22133590.23		A	1.1

103 Rh (ISTD) [He]

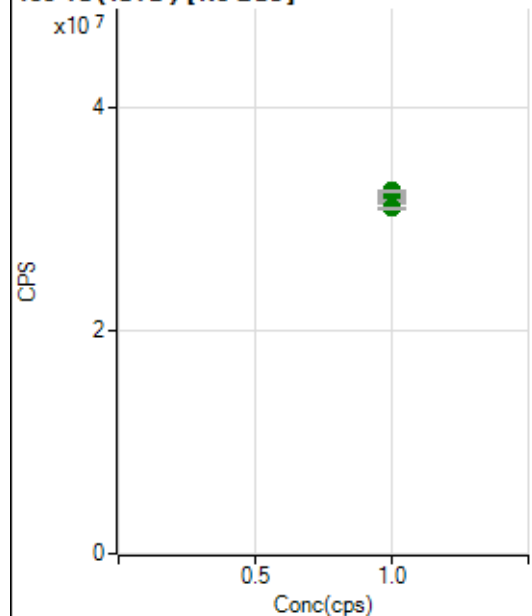
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15362197.13		A	0.3
2	☐	1.000		15221193.80		A	0.5
3	☐	1.000		15167441.58		A	0.2
4	☐	1.000		14916636.03		A	0.3
5	☐	1.000		14572455.62		A	0.6
6	☐	1.000		14313842.15		A	0.1
7	☐	1.000		14290566.04		A	0.5
8	☐	1.000		13154620.78		A	0.2

115 In (ISTD) [No Gas]

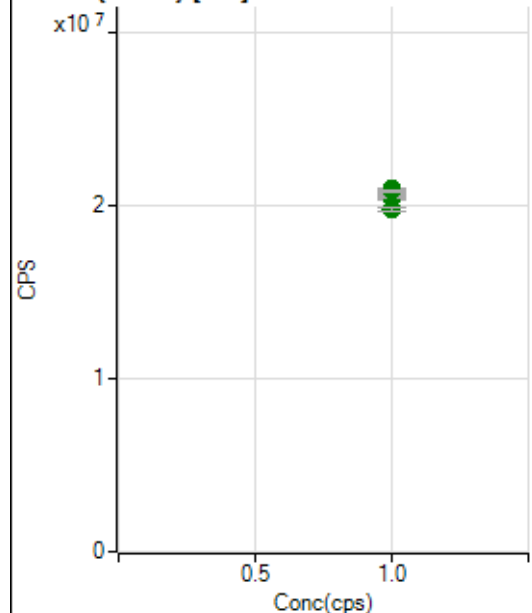
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		26562968.01		A	0.4
2	☐	1.000		26974731.11		A	0.2
3	☐	1.000		26814454.68		A	0.5
4	☐	1.000		26526306.52		A	1.1
5	☐	1.000		26309882.13		A	1.3
6	☐	1.000		25601842.45		A	1.1
7	☐	1.000		25617644.69		A	0.8
8	☐	1.000		24531011.28		A	0.6

115 In (ISTD) [He]

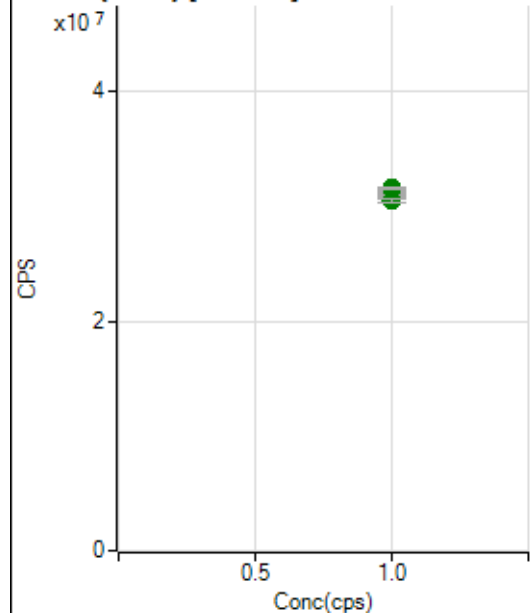
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9322266.29		A	0.3
2	☐	1.000		9316128.44		A	0.2
3	☐	1.000		9336816.24		A	0.7
4	☐	1.000		9155728.39		A	0.3
5	☐	1.000		8998437.61		A	0.8
6	☐	1.000		8725833.20		A	0.4
7	☐	1.000		8851021.43		A	0.2
8	☐	1.000		8541393.11		A	0.3

159 Tb (ISTD) [No Gas]

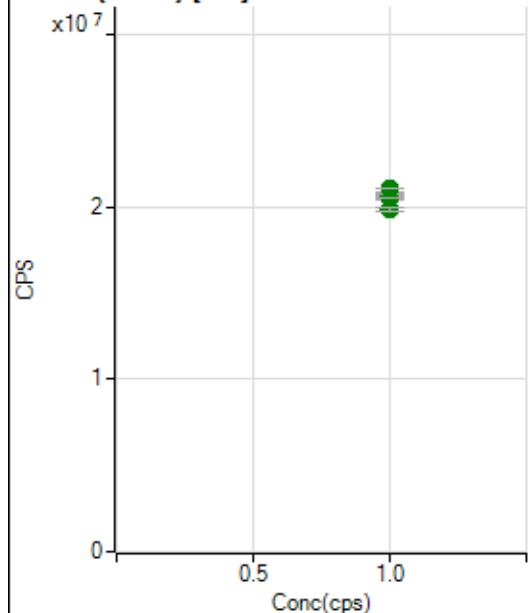
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		31556625.64		A	1.6
2	☐	1.000		32117825.91		A	0.8
3	☐	1.000		32326695.07		A	1.1
4	☐	1.000		32312030.63		A	0.5
5	☐	1.000		31974590.35		A	0.6
6	☐	1.000		31611780.92		A	0.2
7	☐	1.000		32499506.18		A	0.6
8	☐	1.000		30923577.87		A	0.7

159 Tb (ISTD) [He]

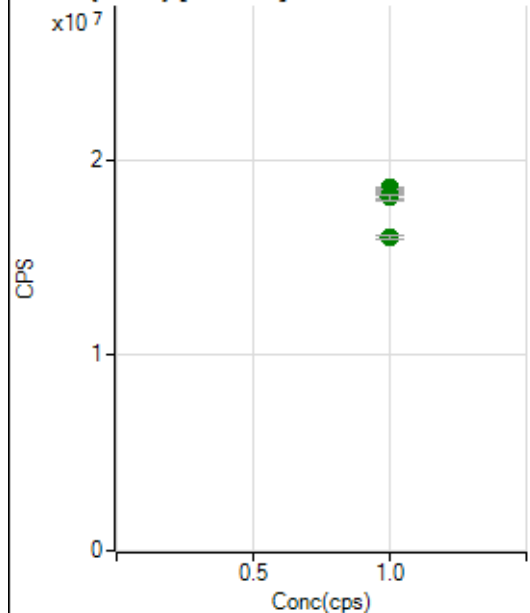
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20692741.77		A	0.5
2	☐	1.000		20817364.69		A	1.0
3	☐	1.000		20988486.08		A	0.4
4	☐	1.000		20791189.83		A	0.9
5	☐	1.000		20473883.17		A	0.9
6	☐	1.000		20514160.25		A	0.1
7	☐	1.000		20864050.80		A	0.6
8	☐	1.000		19826446.23		A	1.4

165 Ho (ISTD) [No Gas]

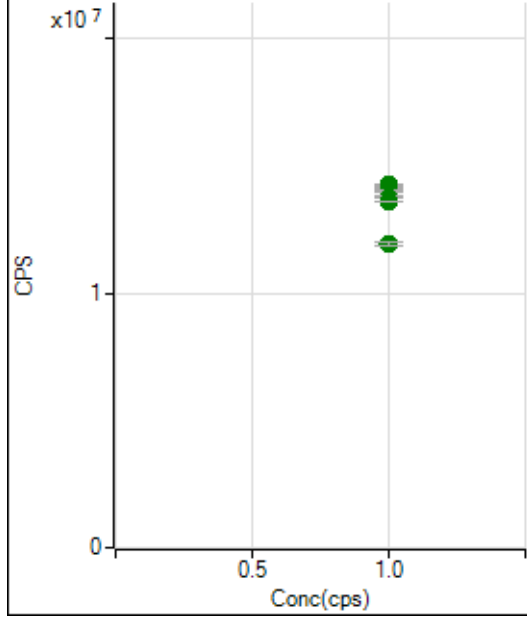
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		30788975.37		A	1.0
2	☐	1.000		31371513.70		A	0.1
3	☐	1.000		31238029.81		A	0.8
4	☐	1.000		31072619.54		A	1.1
5	☐	1.000		31077689.81		A	0.5
6	☐	1.000		30900276.48		A	0.4
7	☐	1.000		31594659.81		A	0.5
8	☐	1.000		30481902.32		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20712788.16		A	0.2
2	☐	1.000		20767441.63		A	0.9
3	☐	1.000		20703250.25		A	0.7
4	☐	1.000		20691310.52		A	0.1
5	☐	1.000		20486192.33		A	0.5
6	☐	1.000		20620421.50		A	0.7
7	☐	1.000		21033287.60		A	0.1
8	☐	1.000		19867115.12		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18419077.50		A	0.9
2	☐	1.000		18584526.11		A	0.6
3	☐	1.000		18539870.42		A	0.3
4	☐	1.000		18460750.00		A	1.0
5	☐	1.000		18265200.70		A	0.4
6	☐	1.000		18095603.48		A	1.2
7	☐	1.000		18085079.87		A	1.5
8	☐	1.000		16019835.46		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14187484.93		A	0.5
2	☐	1.000		14241866.46		A	0.7
3	☐	1.000		14124382.70		A	0.5
4	☐	1.000		14024020.21		A	0.6
5	☐	1.000		13736294.38		A	0.4
6	☐	1.000		13756926.04		A	0.6
7	☐	1.000		13594647.85		A	0.3
8	☐	1.000		11952498.02		A	1.4

US EPA Tune Check Report

Operator Name

Jaswal

Acq/Data Batch

D:\Agilent\ICPMH\1\DATA\P7111424MS5.b

Acq. Date-Time

2024-11-14 12:21:20

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		27821	278213.66			0.583	5.000
24		166023	1660234.97			0.800	5.000
25		20529	205289.76			0.349	5.000
26		23499	234991.92			0.336	5.000
59		207766	2077663.14			0.653	5.000
113		26666	266657.58			0.520	5.000
115		336416	3364158.28			1.080	5.000
206		65458	654575.37			0.712	5.000
207		56826	568260.58			0.574	5.000
208		141891	1418909.91			1.339	5.000
220		0	2.10			31.044	

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

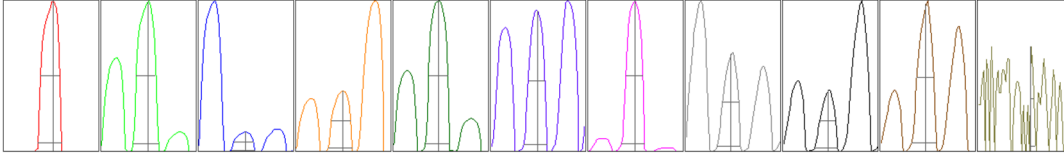
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	28098	27735	27685	27818	27771
24	168213	166153	164840	165138	165773
25	20484	20429	20607	20571	20555
26	23388	23566	23461	23580	23501
59	208464	209441	207932	205851	207145
113	26892	26705	26590	26582	26559
115	339943	336863	331526	339690	334057
206	66246	65362	65276	65008	65395
207	57361	56848	56538	56592	56791
208	144523	141125	141846	139358	142604

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	49678.17	9.10	8.90 - 9.10	
24	283266.58	24.00	23.90 - 24.10	
25	35587.39	25.00	24.90 - 25.10	
26	40515.38	26.00	25.90 - 26.10	
59	355719.66	58.95	58.90 - 59.10	
113	52178.22	113.00	112.90 - 113.10	
115	650469.39	115.00	114.90 - 115.10	
206	131282.77	205.95	205.90 - 206.10	
207	114781.22	206.95	206.90 - 207.10	
208	278466.19	207.95	207.90 - 208.10	
220	0.45	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.734	0.900	
24	0.62	0.813	0.900	
25	0.61	0.744	0.900	
26	0.61	0.761	0.900	
59	0.61	0.771	0.900	
113	0.52	0.735	0.900	
115	0.53	0.731	0.900	
206	0.51	0.736	0.900	
207	0.50	0.734	0.900	
208	0.53	0.786	0.900	
220	0.11	0.190		

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	7.6 V	Deflect	15.6 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	136	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.5 mm
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EM

Discriminator	4.8 mV	Analog HV	2214 V	Pulse HV	969 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		68673	686732.05			0.558	
89		105439	1054385.97			0.884	
205		66027	660272.48			0.596	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	69221	68842	68587	68194	68522
89	106341	105379	106363	104208	104902
205	66563	66196	65540	65772	66066

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	8.5 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-160.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 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	136	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		
Hardware Settings					
Torch					
Torch H	0.0 mm	Torch V	0.5 mm		
EM					
Discriminator	4.8 mV	Analog HV	2214 V	Pulse HV	969 V