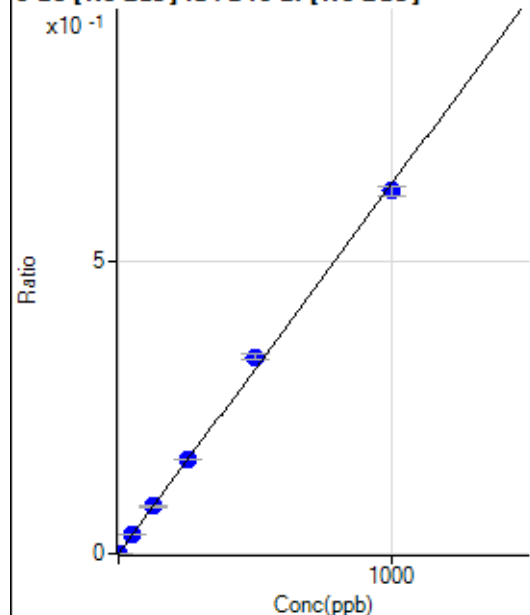


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072920 MS.b\
Analysis File: P8072920 MS.batch.bin
DA Date-Time: 2020-07-30 00:16:40
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-07-29 11:58:45
2	004CALS.d	S02	2020-07-29 12:01:51
3	005CALS.d	S03	2020-07-29 12:04:54
4	006CALS.d	S04	2020-07-29 12:07:59
5	007CALS.d	S05	2020-07-29 12:10:59
6	008CALS.d	S06	2020-07-29 12:13:59
7	009CALS.d	S07	2020-07-29 12:16:58
8	010CALS.d	S08	2020-07-29 12:19:58

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.99	0.0000	P	16.5
2	☐	1.000	0.964	964.51	0.0006	P	4.0
3	☐	50.000	52.200	48583.19	0.0331	P	1.9
4	☐	125.000	127.935	121121.46	0.0811	P	2.3
5	☐	250.000	254.873	244219.59	0.1615	P	0.8
6	☐	500.000	533.020	487086.44	0.3378	P	3.8
7	☐	1000.000	981.795	953163.64	0.6221	P	2.3
8	☐			1134.49	0.0008	P	4.8

$$y = 6.3365\text{E-}004 * x + 3.2613\text{E-}005$$

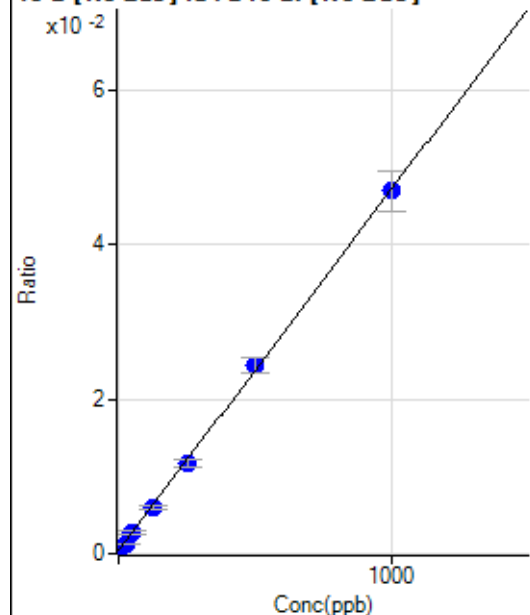
$$R = 0.9992$$

$$DL = 0.02553$$

$$BEC = 0.05147$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	557.24	0.0004	P	0.9
2	☐	25.000	19.661	1948.42	0.0013	P	6.8
3	☐	50.000	50.413	4013.10	0.0027	P	11.4
4	☐	125.000	119.616	8913.62	0.0060	P	9.0
5	☐	250.000	241.795	17673.12	0.0117	P	8.0
6	☐	500.000	513.937	35226.44	0.0244	P	8.2
7	☐	1000.000	995.869	71860.36	0.0469	P	10.9
8	☐			12238.68	0.0084	P	9.8

$$y = 4.6761\text{E-}005 * x + 3.7979\text{E-}004$$

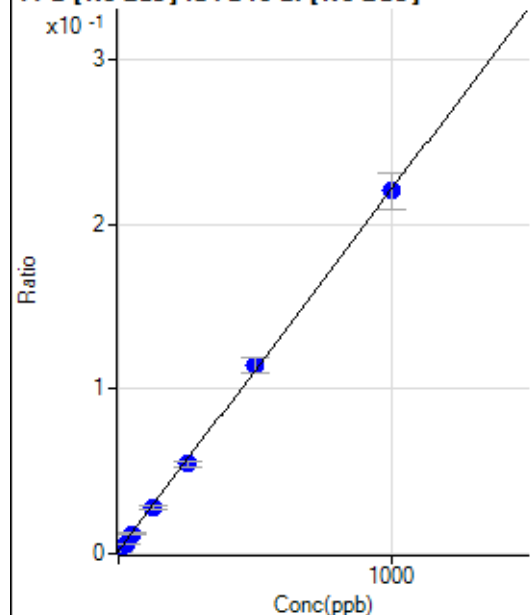
$$R = 0.9998$$

$$DL = 0.2162$$

$$BEC = 8.122$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2545.72	0.0017	P	3.7
2	☐	25.000	19.665	9079.02	0.0061	P	7.0
3	☐	50.000	47.728	17918.71	0.0122	P	7.2
4	☐	125.000	119.919	41868.46	0.0281	P	10.8
5	☐	250.000	240.111	82347.31	0.0545	P	7.5
6	☐	500.000	514.563	165522.05	0.1147	P	7.8
7	☐	1000.000	996.073	337415.73	0.2204	P	10.0
8	☐			55992.13	0.0386	P	9.8

$$y = 2.1955\text{E-}004 * x + 0.0017$$

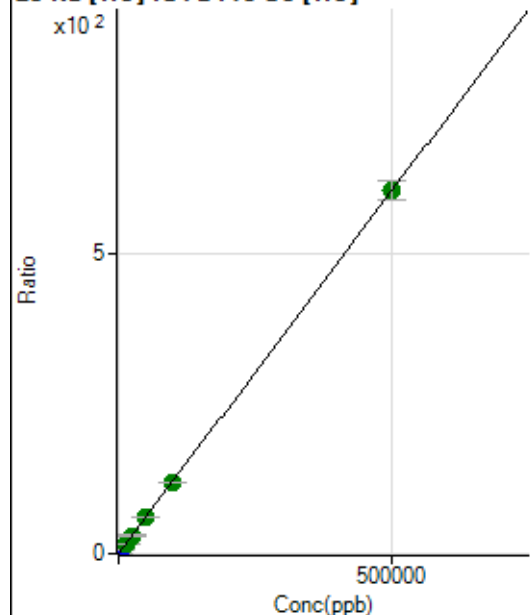
R = 0.9998

DL = 0.8704

BEC = 7.908

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27278.86	0.2623	P	1.3
2	☐	500.000	456.483	86964.26	0.8151	P	0.4
3	☐	5000.000	5127.003	679480.42	6.4706	P	1.9
4	☐	12500.000	12613.005	1638279.22	15.5353	A	1.2
5	☐	25000.000	24872.097	3176004.13	30.3797	A	3.2
6	☐	50000.000	49955.223	6327826.66	60.7526	A	1.7
7	☐	100000.00	98023.299	12541227.28	118.9578	A	1.8
8	☐	500000.00	500402.16	59684152.03	606.1947	A	5.3

$$y = 0.0012 * x + 0.2623$$

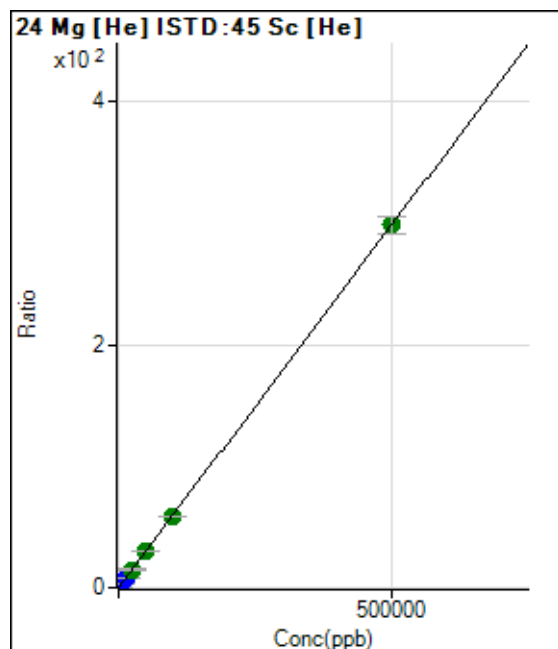
R = 1.0000

DL = 8.377

BEC = 216.6

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1647.36	0.0158	P	5.0
2	☐	500.000	462.676	31172.77	0.2922	P	1.1
3	☐	5000.000	5165.191	325594.78	3.1005	P	2.0
4	☐	12500.000	12654.462	798622.56	7.5731	P	1.0
5	☐	25000.000	25043.080	1565398.15	14.9715	A	2.5
6	☐	50000.000	50615.029	3150022.01	30.2430	A	1.5
7	☐	100000.00	97596.361	6146475.10	58.3001	A	1.6
8	☐	500000.00	500411.59	29426598.23	298.8603	A	4.9

$$y = 5.9720\text{E-}004 * x + 0.0158$$

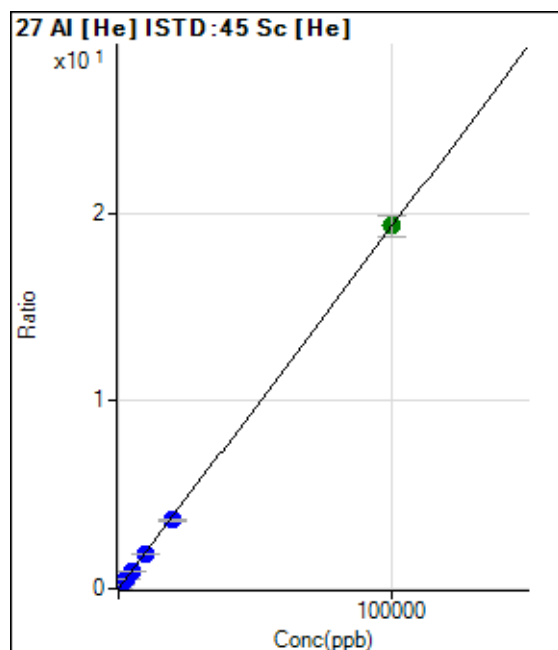
$$R = 1.0000$$

$$DL = 3.98$$

$$BEC = 26.54$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	933.85	0.0090	P	4.7
2	☐	20.000	20.702	1384.46	0.0130	P	4.6
3	☐	1000.000	964.138	20466.26	0.1949	P	2.0
4	☐	2500.000	2395.966	49670.15	0.4710	P	0.7
5	☐	5000.000	4757.451	96853.37	0.9264	P	2.8
6	☐	10000.000	9650.272	194753.97	1.8698	P	0.5
7	☐	20000.000	18922.462	385625.14	3.6578	P	1.8
8	☐	100000.00	100265.56	1904050.27	19.3431	A	5.8

$$y = 1.9283\text{E-}004 * x + 0.0090$$

$$R = 0.9999$$

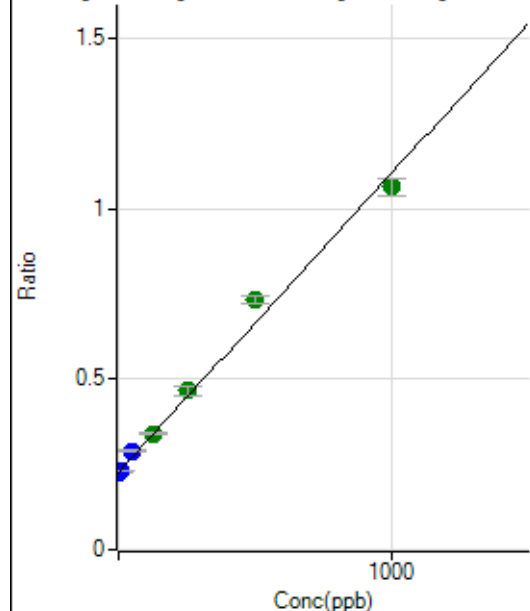
$$DL = 6.635$$

$$BEC = 46.59$$

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	700849.14	0.2268	P	3.1
2	☐	10.000	5.331	726299.09	0.2315	P	1.8
3	☐	50.000	72.025	897990.45	0.2900	P	1.3
4	☐	125.000	128.707	1076256.33	0.3397	A	1.2
5	☐	250.000	272.154	1462950.77	0.4655	A	5.9
6	☐	500.000	578.190	2236105.45	0.7339	A	3.1
7	☐	1000.000	953.848	3442867.20	1.0634	A	5.0
8	☐			918843.68	0.2927	A	0.5

$$y = 8.7708\text{E-}004 * x + 0.2268$$

R = 0.9948

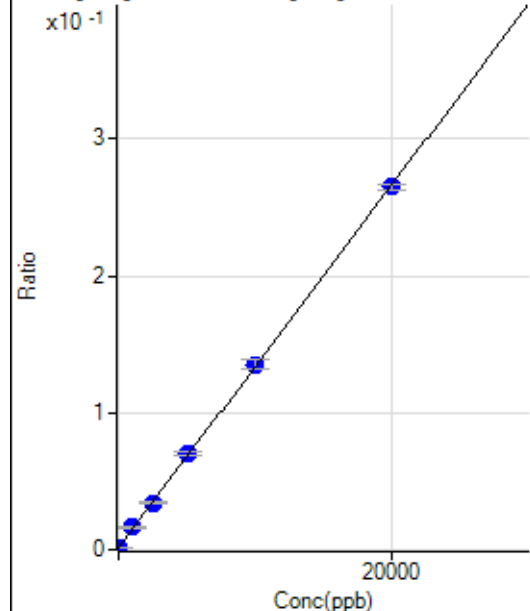
DL = 23.67

BEC = 258.6

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-6.424	155.56	0.0015	P	25.8
2	☐	0.000	6.424	177.78	0.0017	P	27.4
3	☐	1000.000	1105.212	1700.15	0.0162	P	10.9
4	☐	2500.000	2444.480	3575.56	0.0339	P	3.7
5	☐	5000.000	5171.857	7315.93	0.0700	P	4.1
6	☐	10000.000	10085.671	14059.92	0.1350	P	5.0
7	☐	20000.000	19915.879	27938.57	0.2650	P	1.9
8	☐			183.34	0.0019	P	4.0

$$y = 1.3227\text{E-}005 * x + 0.0016$$

R = 0.9999

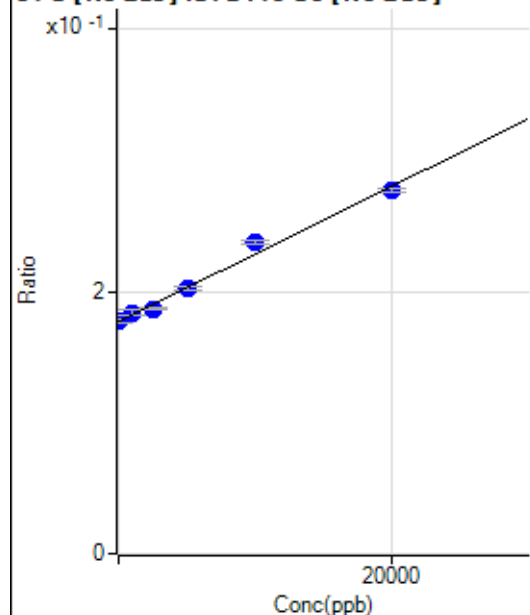
DL = 95.44

BEC = 119.3

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	108.999	550381.03	0.1781	P	2.7
2	☐	0.000	-108.999	555298.79	0.1770	P	1.7
3	☐	1000.000	1283.429	570180.61	0.1842	P	2.7
4	☐	2500.000	1843.117	592575.37	0.1870	P	0.4
5	☐	5000.000	4833.390	636517.24	0.2024	P	1.7
6	☐	10000.000	11658.279	723787.48	0.2376	P	1.7
7	☐	20000.000	19280.452	896601.07	0.2769	P	1.1
8	☐			543457.36	0.1731	P	0.5

$$y = 5.1518\text{E-}006 * x + 0.1775$$

$$R = 0.9941$$

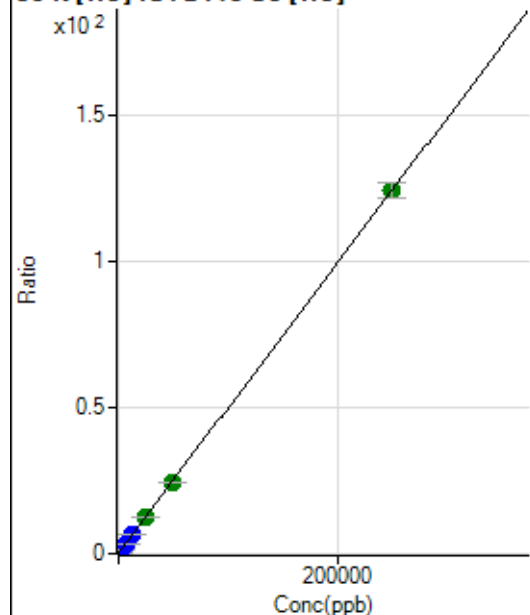
$$DL = 2274$$

$$BEC = 3.446\text{E}+04$$

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	27869.15	0.2681	P	2.3
2	☐	500.000	440.513	51868.92	0.4862	P	1.5
3	☐	2500.000	2526.973	159547.16	1.5193	P	1.6
4	☐	6250.000	6216.775	352870.81	3.3463	P	1.9
5	☐	12500.000	12499.436	675140.36	6.4572	P	2.7
6	☐	25000.000	25211.090	1328146.84	12.7514	A	1.2
7	☐	50000.000	48821.157	2576956.68	24.4421	A	1.2
8	☐	250000.00	250215.36	12226863.90	124.1632	A	4.4

$$y = 4.9515\text{E-}004 * x + 0.2681$$

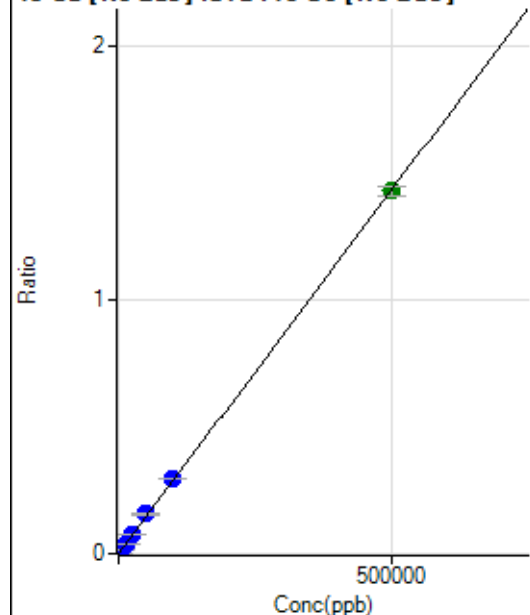
$$R = 1.0000$$

$$DL = 37.59$$

$$BEC = 541.4$$

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	638.92	0.0002	P	11.5
2	☐	500.000	465.802	4839.84	0.0015	P	6.0
3	☐	5000.000	5243.986	47189.37	0.0152	P	0.7
4	☐	12500.000	13032.282	118997.90	0.0376	P	2.0
5	☐	25000.000	26251.227	237238.80	0.0755	P	1.9
6	☐	50000.000	54476.380	476258.57	0.1564	P	2.2
7	☐	100000.00	102436.11	951538.86	0.2938	P	0.6
8	☐	500000.00	498986.86	4489634.87	1.4305	A	2.5

$$y = 2.8664\text{E-}006 * x + 2.0632\text{E-}004$$

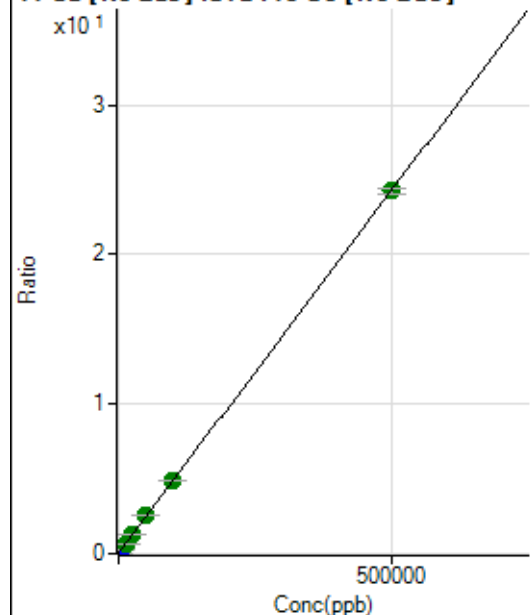
$$R = 1.0000$$

$$DL = 24.83$$

$$BEC = 71.98$$

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	80553.80	0.0261	P	2.4
2	☐	500.000	500.891	157977.14	0.0503	P	1.5
3	☐	5000.000	5383.033	888669.28	0.2870	P	2.0
4	☐	12500.000	12935.104	2068954.89	0.6531	A	1.3
5	☐	25000.000	25811.290	4016002.83	1.2772	A	1.3
6	☐	50000.000	53090.002	7918102.18	2.5996	A	2.2
7	☐	100000.00	99994.980	15782721.88	4.8732	A	0.7
8	☐	500000.00	499636.73	76098116.98	24.2456	A	1.7

$$y = 4.8474\text{E-}005 * x + 0.0261$$

$$R = 1.0000$$

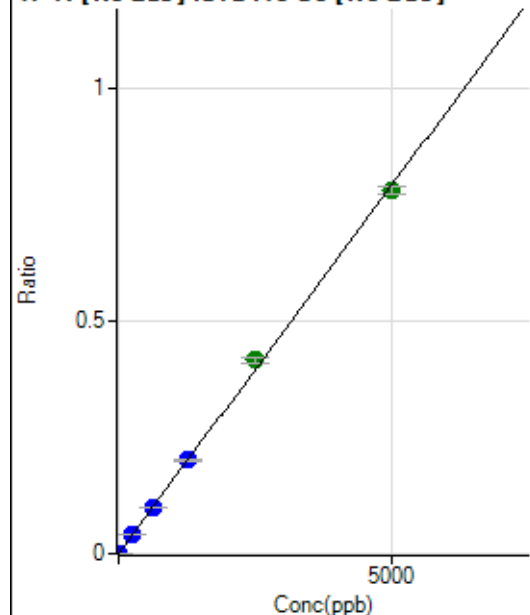
$$DL = 38.24$$

$$BEC = 537.7$$

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	572.25	0.0002	P	8.8
2	☐	5.000	4.911	3017.06	0.0010	P	3.4
3	☐	250.000	259.799	127774.99	0.0413	P	2.6
4	☐	625.000	634.545	318466.38	0.1005	P	1.2
5	☐	1250.000	1272.579	633279.24	0.2014	P	1.9
6	☐	2500.000	2629.690	1267174.30	0.4160	A	2.5
7	☐	5000.000	4927.827	2523892.70	0.7794	A	2.1
8	☐			3086.52	0.0010	P	2.5

$$y = 1.5813\text{E-}004 * x + 1.8523\text{E-}004$$

$$R = 0.9995$$

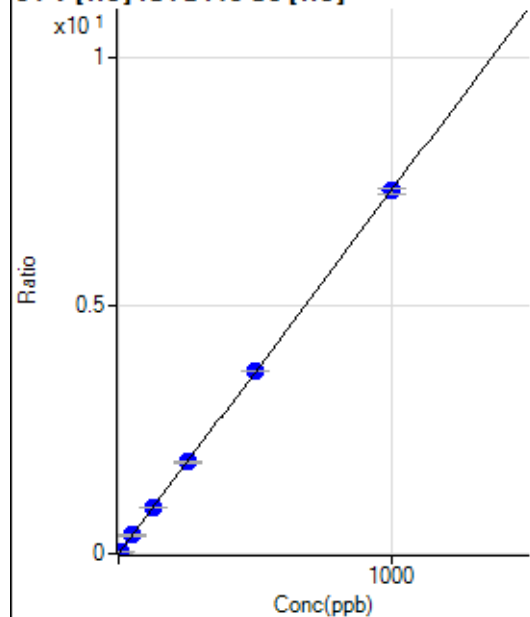
$$DL = 0.3078$$

$$BEC = 1.171$$

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	16.67	0.0002	P	40.3
2	☐	5.000	4.552	3577.14	0.0335	P	4.3
3	☐	50.000	50.507	38906.12	0.3705	P	1.1
4	☐	125.000	124.995	96660.01	0.9166	P	0.9
5	☐	250.000	251.367	192657.21	1.8431	P	3.8
6	☐	500.000	502.427	383685.87	3.6838	P	0.6
7	☐	1000.000	998.422	771765.31	7.3202	P	1.3
8	☐			867.81	0.0088	P	7.9

$$y = 0.0073 * x + 1.6063\text{E-}004$$

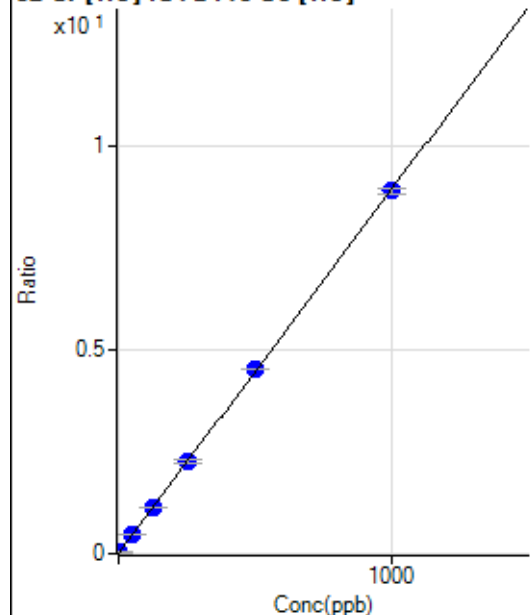
$$R = 1.0000$$

$$DL = 0.02646$$

$$BEC = 0.02191$$

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	641.13	0.0062	P	3.4
2	☐	2.000	1.971	2535.81	0.0238	P	2.3
3	☐	50.000	50.932	48395.93	0.4609	P	3.2
4	☐	125.000	125.950	119237.48	1.1307	P	1.8
5	☐	250.000	251.508	235374.43	2.2518	P	4.0
6	☐	500.000	506.600	471773.21	4.5295	P	0.6
7	☐	1000.000	996.158	938354.75	8.9007	P	1.9
8	☐			5175.42	0.0525	P	3.2

$$y = 0.0089 * x + 0.0062$$

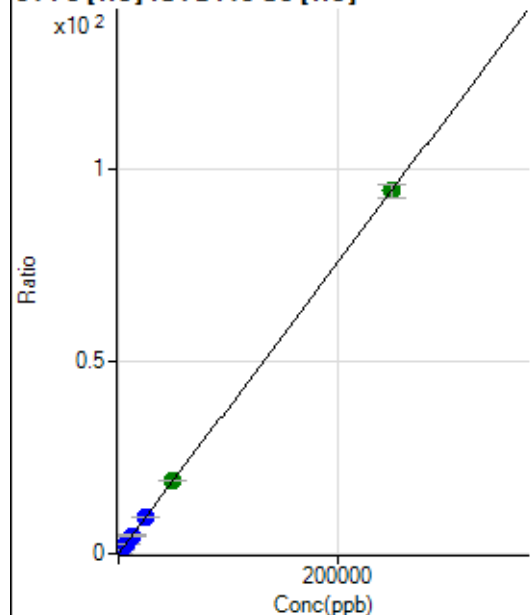
$$R = 1.0000$$

$$DL = 0.06976$$

$$BEC = 0.6906$$

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	442.61	0.0042	P	14.4
2	☐	50.000	45.718	2290.96	0.0215	P	6.2
3	☐	2500.000	2520.648	100230.31	0.9544	P	0.9
4	☐	6250.000	6185.617	246318.98	2.3358	P	1.4
5	☐	12500.000	12424.088	489999.05	4.6873	P	3.5
6	☐	25000.000	24919.615	978784.00	9.3973	P	0.6
7	☐	50000.000	50167.579	1994052.07	18.9141	A	1.6
8	☐	250000.00	249979.72	9280552.06	94.2302	A	3.7

$$y = 3.7693E-004 * x + 0.0042$$

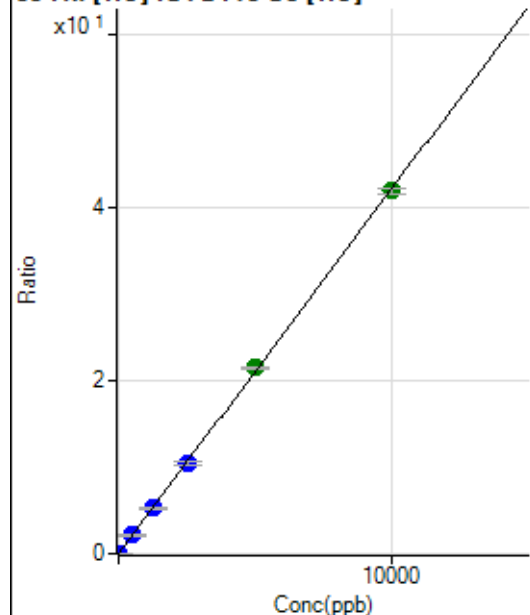
$$R = 1.0000$$

$$DL = 4.859$$

$$BEC = 11.27$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	101.11	0.0010	P	18.7
2	☐	1.000	0.982	544.46	0.0051	P	7.5
3	☐	500.000	502.231	222195.87	2.1158	P	2.1
4	☐	1250.000	1244.924	552932.57	5.2433	P	1.1
5	☐	2500.000	2494.479	1098156.50	10.5051	P	3.6
6	☐	5000.000	5105.919	2239514.48	21.5018	A	0.9
7	☐	10000.000	9948.944	4417000.83	41.8957	A	1.4
8	☐			6797.22	0.0691	P	6.4

$$y = 0.0042 * x + 9.7060E-004$$

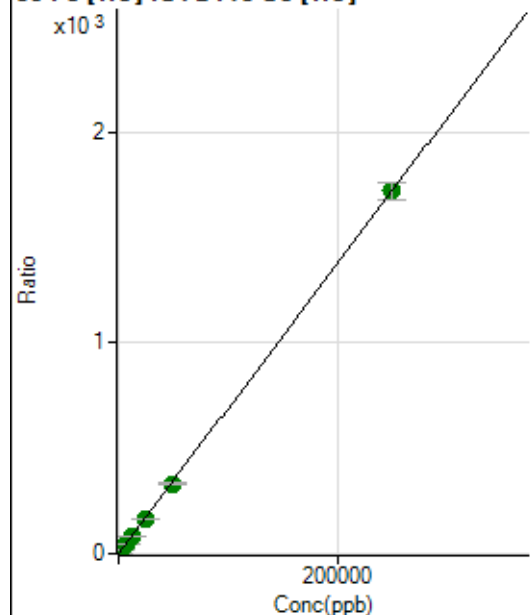
$$R = 0.9999$$

$$DL = 0.1293$$

$$BEC = 0.2305$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3585.69	0.0345	P	2.5
2	☐	50.000	45.284	36896.07	0.3458	P	0.9
3	☐	2500.000	2479.046	1793390.49	17.0793	A	2.8
4	☐	6250.000	6068.331	4403337.57	41.7576	A	1.8
5	☐	12500.000	12114.403	8710916.57	83.3277	A	3.5
6	☐	25000.000	24438.521	17504735.35	168.0629	A	0.6
7	☐	50000.000	48042.814	34827910.04	330.3556	A	1.8
8	☐	250000.00	250471.61	169567496.3	1,722.166	A	4.8

$$y = 0.0069 * x + 0.0345$$

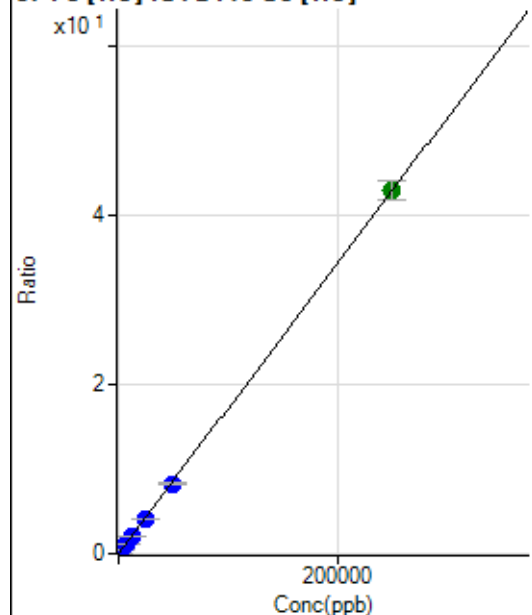
$$R = 1.0000$$

$$DL = 0.3789$$

$$BEC = 5.013$$

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	148.15	0.0014	P	17.1
2	☐	50.000	49.730	1061.17	0.0099	P	3.9
3	☐	2500.000	2456.671	44356.15	0.4224	P	2.3
4	☐	6250.000	6036.777	109240.59	1.0359	P	0.8
5	☐	12500.000	12092.184	216755.80	2.0735	P	3.6
6	☐	25000.000	24427.280	436126.11	4.1873	P	0.7
7	☐	50000.000	48243.364	871673.75	8.2684	P	2.2
8	☐	250000.00	250434.75	4225096.04	42.9157	A	5.2

$$y = 1.7136\text{E-}004 * x + 0.0014$$

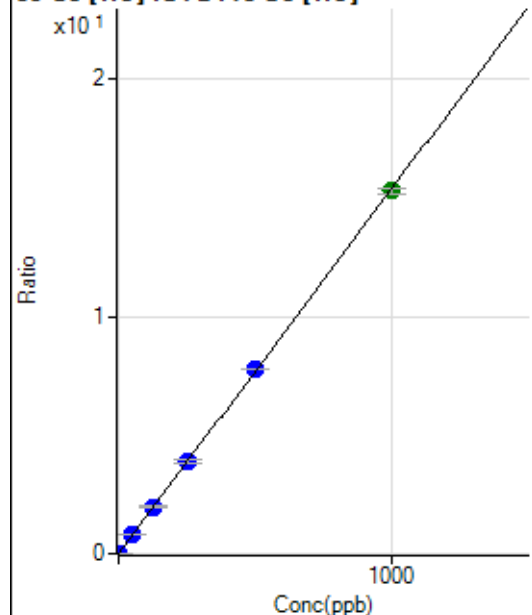
$$R = 1.0000$$

$$DL = 4.268$$

$$BEC = 8.308$$

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	35.55	0.0003	P	36.5
2	☐	1.000	0.945	1584.55	0.0148	P	4.2
3	☐	50.000	51.680	83371.15	0.7939	P	2.5
4	☐	125.000	128.094	207460.34	1.9674	P	1.9
5	☐	250.000	253.737	407305.63	3.8968	P	4.2
6	☐	500.000	507.229	811318.63	7.7895	P	0.4
7	☐	1000.000	994.981	1610895.67	15.2795	A	1.5
8	☐			4106.19	0.0417	P	6.6

$$y = 0.0154 * x + 3.4107\text{E-}004$$

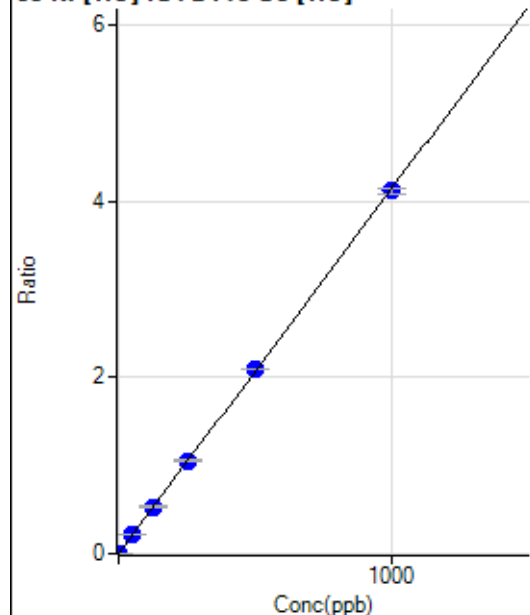
$$R = 1.0000$$

$$DL = 0.02435$$

$$BEC = 0.02221$$

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	116.67	0.0011	P	22.9
2	☐	1.000	1.033	576.69	0.0054	P	10.2
3	☐	50.000	52.113	22800.59	0.2171	P	2.5
4	☐	125.000	128.143	56130.21	0.5323	P	2.0
5	☐	250.000	255.144	110687.43	1.0587	P	3.0
6	☐	500.000	507.446	219200.50	2.1046	P	0.1
7	☐	1000.000	994.492	434721.71	4.1234	P	1.8
8	☐			1887.92	0.0192	P	8.9

$$y = 0.0041 * x + 0.0011$$

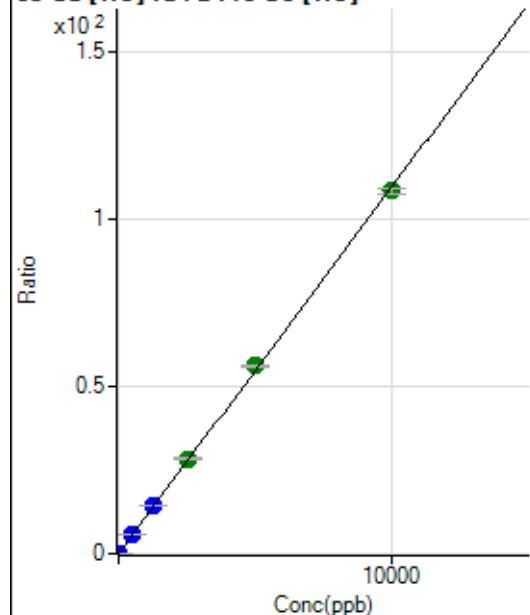
$$R = 0.9999$$

$$DL = 0.1864$$

$$BEC = 0.2711$$

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	383.35	0.0037	P	6.6
2	☐	2.000	1.963	2689.17	0.0252	P	4.2
3	☐	500.000	524.848	604361.36	5.7548	P	1.3
4	☐	1250.000	1297.251	1499464.98	14.2186	P	0.9
5	☐	2500.000	2596.412	2974614.12	28.4544	A	3.4
6	☐	5000.000	5130.022	5855253.18	56.2169	A	0.6
7	☐	10000.000	9903.737	11441716.08	108.5258	A	1.6
8	☐			14334.00	0.1455	P	3.5

$$y = 0.0110 * x + 0.0037$$

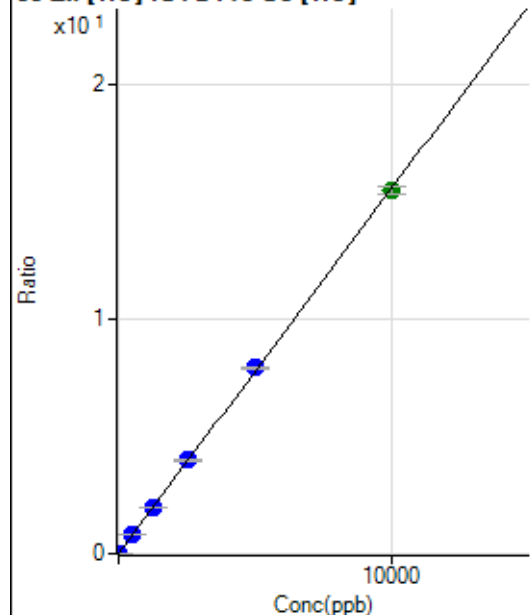
$$R = 0.9998$$

$$DL = 0.06695$$

$$BEC = 0.3364$$

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	137.78	0.0013	P	10.1
2	☐	2.000	1.984	470.01	0.0044	P	8.8
3	☐	500.000	521.742	85270.09	0.8119	P	1.0
4	☐	1250.000	1280.465	209923.92	1.9907	P	1.4
5	☐	2500.000	2555.220	415121.74	3.9712	P	3.6
6	☐	5000.000	5089.795	823764.61	7.9089	P	0.7
7	☐	10000.000	9936.403	1627657.91	15.4388	A	2.0
8	☐			3487.13	0.0354	P	4.8

$$y = 0.0016 * x + 0.0013$$

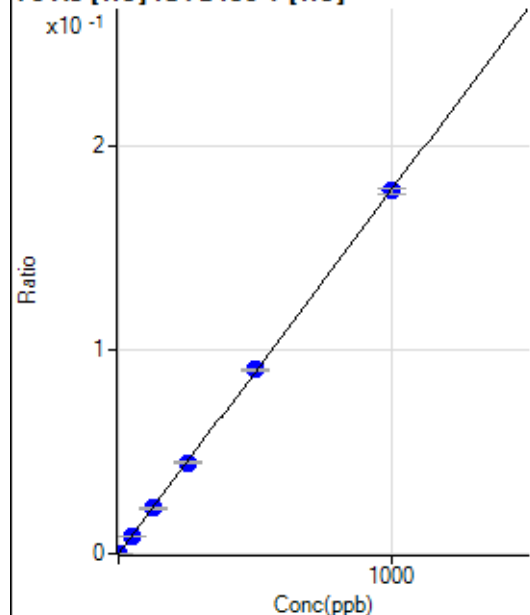
$$R = 0.9999$$

$$DL = 0.2591$$

$$BEC = 0.8515$$

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	8.67	0.0000	P	6.5
2	☐	1.000	0.916	124.01	0.0002	P	7.7
3	☐	50.000	49.951	6296.71	0.0089	P	0.2
4	☐	125.000	124.587	15596.16	0.0222	P	0.7
5	☐	250.000	248.801	31086.09	0.0444	P	2.0
6	☐	500.000	505.430	62536.49	0.0901	P	0.4
7	☐	1000.000	997.639	124100.31	0.1779	P	1.5
8	☐			147.68	0.0002	P	8.1

$$y = 1.7827E-004 * x + 1.2404E-005$$

$$R = 1.0000$$

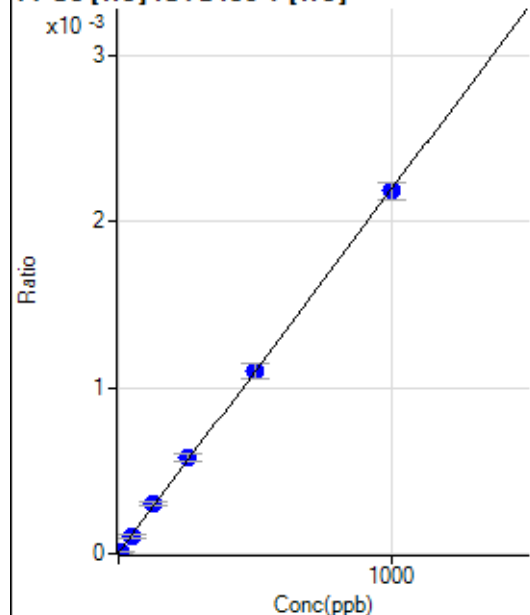
$$DL = 0.01349$$

$$BEC = 0.06958$$

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	3.33	0.0000	P	100.2
2	☐	5.000	2.844	7.78	0.0000	P	24.6
3	☐	50.000	45.271	73.33	0.0001	P	12.5
4	☐	125.000	137.412	214.45	0.0003	P	7.8
5	☐	250.000	264.073	408.90	0.0006	P	7.6
6	☐	500.000	499.385	762.25	0.0011	P	7.8
7	☐	1000.000	995.485	1523.43	0.0022	P	4.8
8	☐			4.45	0.0000	P	86.6

$$y = 2.1890\text{E-}006 * x + 4.7986\text{E-}006$$

$$R = 0.9998$$

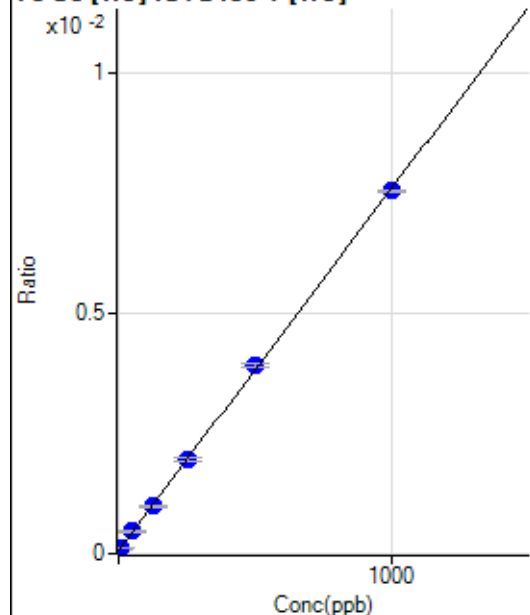
$$DL = 6.588$$

$$BEC = 2.192$$

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	47.01	0.0001	P	19.9
2	☐	5.000	5.121	74.68	0.0001	P	0.9
3	☐	50.000	52.575	327.37	0.0005	P	4.4
4	☐	125.000	122.912	697.75	0.0010	P	4.2
5	☐	250.000	251.122	1373.54	0.0020	P	5.5
6	☐	500.000	512.053	2726.54	0.0039	P	1.4
7	☐	1000.000	993.825	5276.19	0.0076	P	0.7
8	☐			50.68	0.0001	P	2.2

$$y = 7.5411\text{E-}006 * x + 6.7221\text{E-}005$$

$$R = 0.9999$$

$$DL = 5.322$$

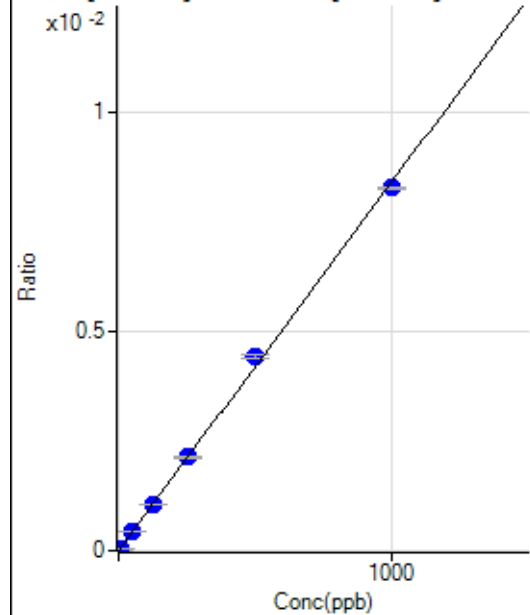
$$BEC = 8.914$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4281.74		P	0.9
2	☐			3974.68		P	1.9
3	☐			3917.92		P	3.1
4	☐			3857.85		P	7.7
5	☐			3864.50		P	4.2
6	☐			3894.55		P	4.0
7	☐			3917.93		P	1.5
8	☐			4104.85		P	7.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-21.81	0.0000	P	-236.
2	☐	5.000	5.066	249.51	0.0000	P	16.1
3	☐	50.000	51.795	2690.58	0.0004	P	2.6
4	☐	125.000	126.576	6792.82	0.0011	P	2.0
5	☐	250.000	253.744	13531.51	0.0021	P	2.0
6	☐	500.000	527.255	27351.71	0.0044	P	2.4
7	☐	1000.000	985.149	53936.21	0.0083	P	0.5
8	☐			28.93	0.0000	P	87.1

$$y = 8.3908E-006 * x - 3.3724E-006$$

$$R = 0.9994$$

$$DL = 2.846$$

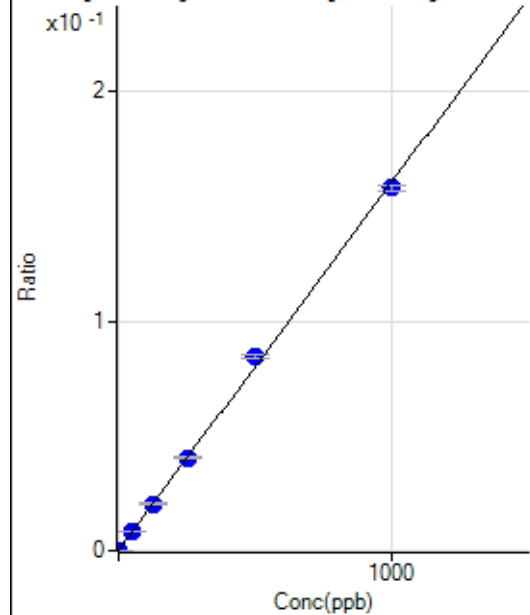
$$BEC = -0.4019$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			355.56		P	10.8
2	☐			345.56		P	8.6
3	☐			367.79		P	0.5
4	☐			363.34		P	10.6
5	☐			358.90		P	4.4
6	☐			372.23		P	12.2
7	☐			355.57		P	8.1
8	☐			378.90		P	8.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	572.25	0.0001	P	14.8
2	☐	1.000	0.944	1541.79	0.0002	P	8.4
3	☐	50.000	51.183	51771.66	0.0083	P	2.4
4	☐	125.000	127.319	131573.76	0.0205	P	1.0
5	☐	250.000	251.428	257163.75	0.0404	P	2.2
6	☐	500.000	527.808	524156.52	0.0847	P	2.7
7	☐	1000.000	985.390	1031904.81	0.1581	P	1.6
8	☐			7007.51	0.0011	P	2.5

$$y = 1.6034E-004 * x + 9.0460E-005$$

$$R = 0.9994$$

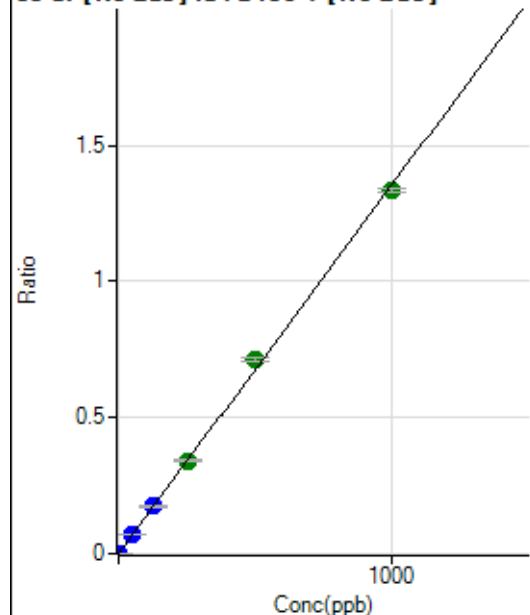
$$DL = 0.2499$$

$$BEC = 0.5642$$

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	75.00	0.0000	P	20.9
2	☐	1.000	0.973	8458.32	0.0013	P	5.2
3	☐	50.000	52.559	443472.94	0.0711	P	3.0
4	☐	125.000	128.100	1111516.52	0.1732	P	0.9
5	☐	250.000	252.285	2171353.80	0.3411	A	1.2
6	☐	500.000	527.957	4417046.80	0.7139	A	2.1
7	☐	1000.000	984.935	8693147.85	1.3318	A	0.9
8	☐			55762.01	0.0089	P	1.4

$$y = 0.0014 * x + 1.1906E-005$$

$$R = 0.9994$$

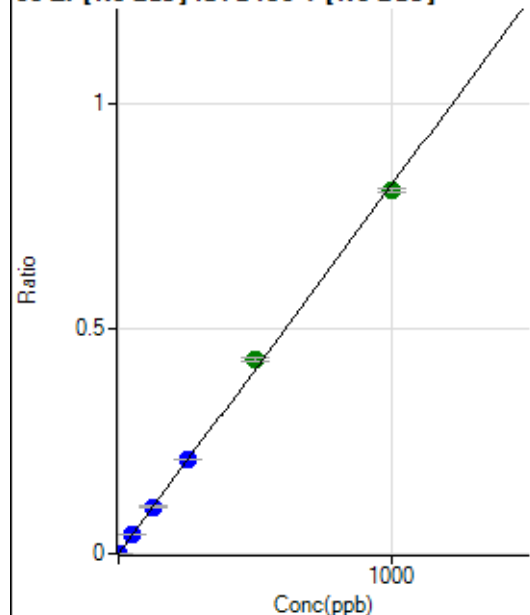
$$DL = 0.005531$$

$$BEC = 0.008805$$

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	322.24	0.0001	P	6.3
2	☐	1.000	0.902	5031.61	0.0008	P	3.7
3	☐	50.000	51.684	264404.67	0.0424	P	3.2
4	☐	125.000	127.573	670743.65	0.1045	P	0.8
5	☐	250.000	257.017	1340114.71	0.2105	P	0.8
6	☐	500.000	526.963	2670523.98	0.4316	A	2.0
7	☐	1000.000	984.358	5262315.14	0.8062	A	1.0
8	☐			5962.53	0.0010	P	3.8

$$y = 8.1896E-004 * x + 5.1086E-005$$

$$R = 0.9994$$

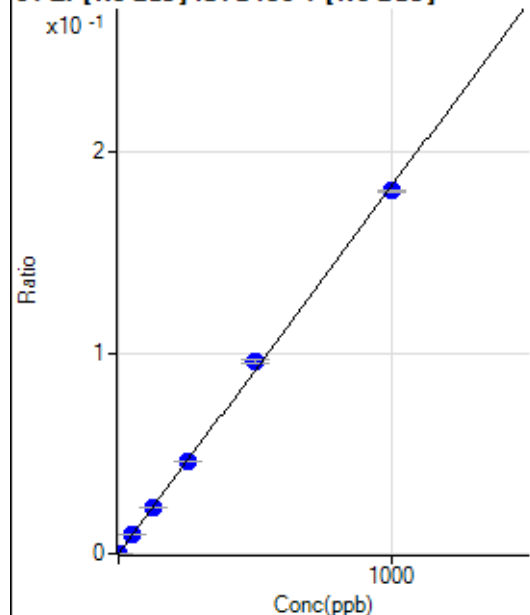
$$DL = 0.01173$$

$$BEC = 0.06238$$

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	86.11	0.0000	P	18.9
2	☐	1.000	0.888	1122.30	0.0002	P	10.5
3	☐	50.000	51.550	58914.35	0.0094	P	4.2
4	☐	125.000	126.216	148235.03	0.0231	P	1.6
5	☐	250.000	252.375	293964.15	0.0462	P	0.7
6	☐	500.000	522.715	591767.78	0.0956	P	1.8
7	☐	1000.000	987.819	1179622.78	0.1807	P	0.7
8	☐			1222.31	0.0002	P	10.4

$$y = 1.8293E-004 * x + 1.3619E-005$$

$$R = 0.9996$$

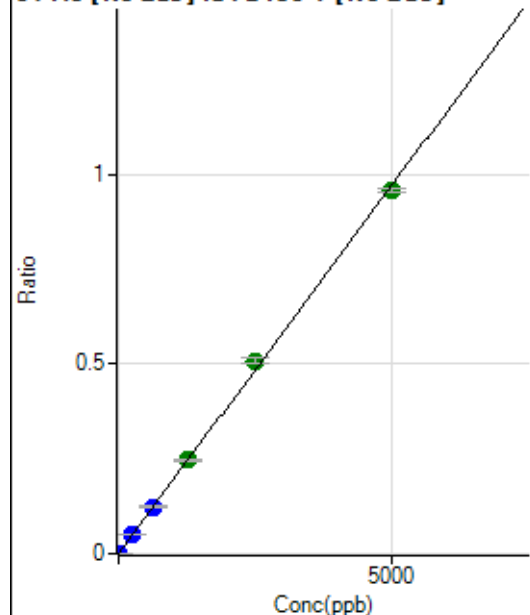
$$DL = 0.04224$$

$$BEC = 0.07445$$

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	333.35	0.0001	P	13.1
2	☐	5.000	4.628	6051.48	0.0009	P	2.3
3	☐	250.000	259.544	314111.48	0.0503	P	2.9
4	☐	625.000	638.278	793864.59	0.1237	P	2.1
5	☐	1250.000	1268.327	1564470.28	0.2458	A	2.7
6	☐	2500.000	2625.288	3147944.89	0.5088	A	2.2
7	☐	5000.000	4930.638	6236666.33	0.9555	A	1.2
8	☐			7677.35	0.0012	P	1.9

$$y = 1.9377E-004 * x + 5.2717E-005$$

$$R = 0.9995$$

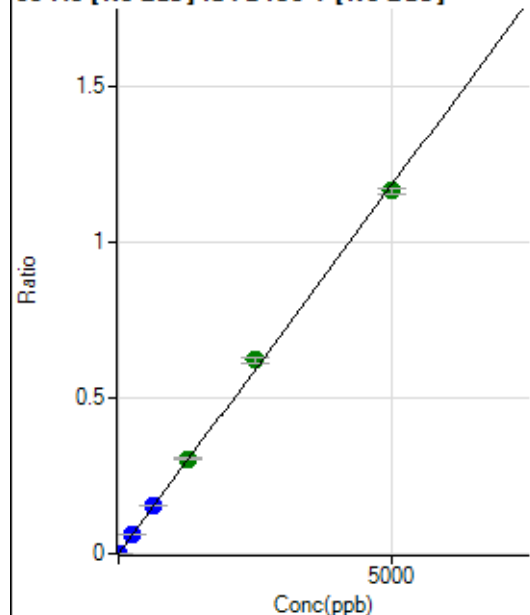
$$DL = 0.1073$$

$$BEC = 0.2721$$

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	75.00	0.0000	P	12.9
2	☐	5.000	4.602	7004.74	0.0011	P	2.3
3	☐	250.000	260.562	384082.25	0.0616	P	2.8
4	☐	625.000	646.314	979709.68	0.1527	P	0.7
5	☐	1250.000	1289.223	1938421.33	0.3045	A	1.3
6	☐	2500.000	2624.077	3835209.98	0.6199	A	2.1
7	☐	5000.000	4924.964	7593285.93	1.1634	A	1.3
8	☐			9022.64	0.0014	P	4.7

$$y = 2.3621\text{E-}004 * x + 1.1900\text{E-}005$$

$$R = 0.9995$$

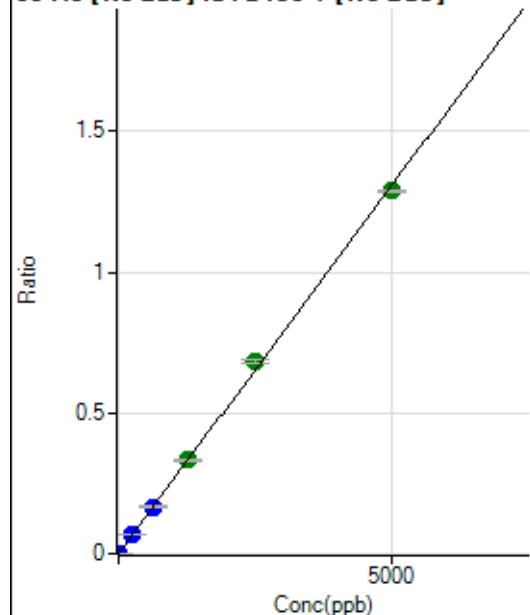
$$DL = 0.01953$$

$$BEC = 0.05038$$

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	83.34	0.0000	P	40.3
2	☐	5.000	4.632	7794.04	0.0012	P	3.6
3	☐	250.000	259.007	422124.25	0.0677	P	3.1
4	☐	625.000	638.372	1069884.68	0.1667	P	1.3
5	☐	1250.000	1279.459	2126993.19	0.3342	A	1.9
6	☐	2500.000	2617.807	4230487.47	0.6837	A	2.1
7	☐	5000.000	4931.610	8407561.56	1.2880	A	0.6
8	☐			10904.47	0.0017	P	0.1

$$y = 2.6118\text{E-}004 * x + 1.3191\text{E-}005$$

$$R = 0.9996$$

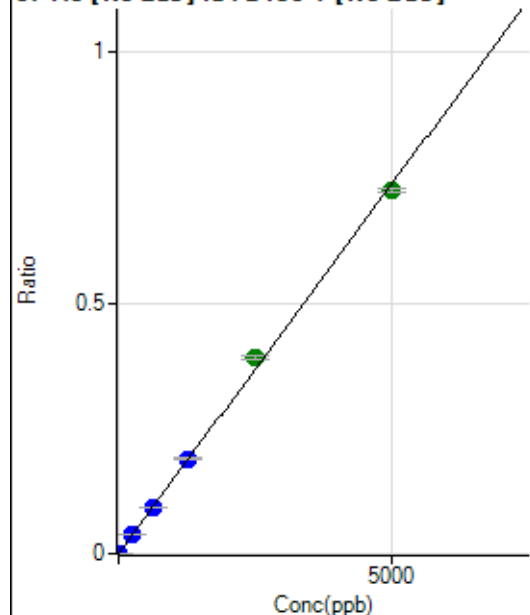
$$DL = 0.06102$$

$$BEC = 0.0505$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	67.4
2	☐	5.000	4.653	4389.69	0.0007	P	3.6
3	☐	250.000	254.750	233897.04	0.0375	P	2.3
4	☐	625.000	631.153	595907.26	0.0929	P	0.9
5	☐	1250.000	1281.310	1199863.07	0.1885	P	2.2
6	☐	2500.000	2654.367	2416354.18	0.3905	A	2.3
7	☐	5000.000	4913.983	4719247.07	0.7230	A	0.9
8	☐			5595.71	0.0009	P	8.7

$$y = 1.4713\text{E-}004 * x + 3.9936\text{E-}006$$

$$R = 0.9993$$

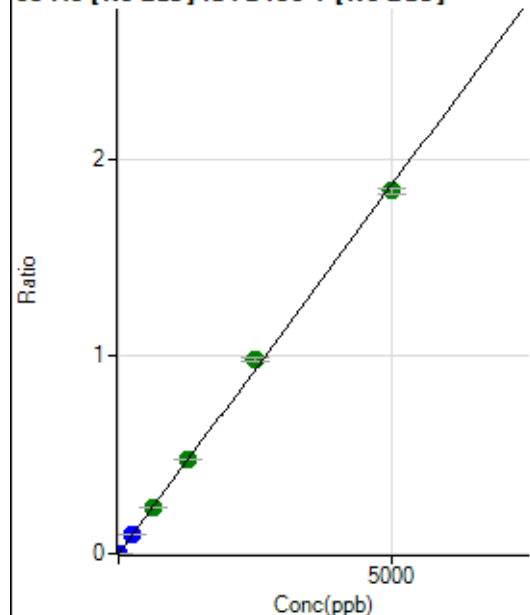
$$DL = 0.05489$$

$$BEC = 0.02714$$

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	50.00	0.0000	P	14.8
2	☐	5.000	4.586	10957.41	0.0017	P	2.6
3	☐	250.000	258.651	602246.12	0.0965	P	2.3
4	☐	625.000	633.573	1516977.17	0.2364	A	1.5
5	☐	1250.000	1277.518	3034123.31	0.4767	A	1.6
6	☐	2500.000	2633.175	6079192.97	0.9825	A	2.6
7	☐	5000.000	4925.029	11994954.70	1.8377	A	1.3
8	☐			14188.14	0.0023	P	2.2

$$y = 3.7313\text{E-}004 * x + 7.9056\text{E-}006$$

$$R = 0.9994$$

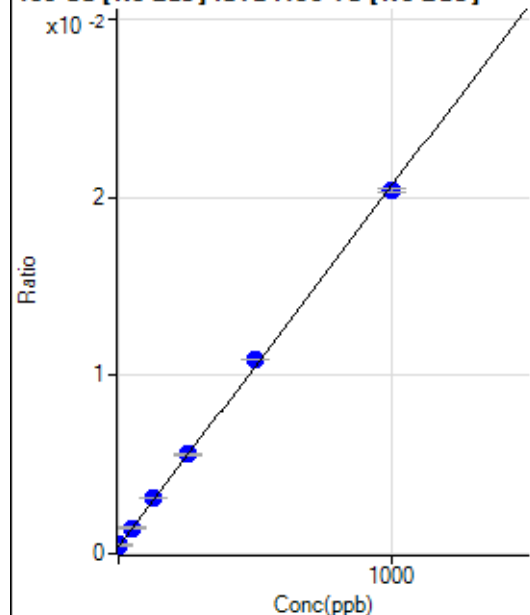
$$DL = 0.0094$$

$$BEC = 0.02119$$

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	1427.89	0.0004	P	7.8
2	☐	1.000	4.377	1775.17	0.0005	P	9.8
3	☐	50.000	51.822	5248.35	0.0014	P	2.4
4	☐	125.000	133.402	11204.82	0.0031	P	1.3
5	☐	250.000	256.587	20348.78	0.0056	P	2.5
6	☐	500.000	520.302	38398.67	0.0109	P	0.2
7	☐	1000.000	987.057	76196.61	0.0204	P	1.1
8	☐			1627.92	0.0004	P	2.4

$$y = 2.0238\text{E-}005 * x + 3.9983\text{E-}004$$

$$R = 0.9997$$

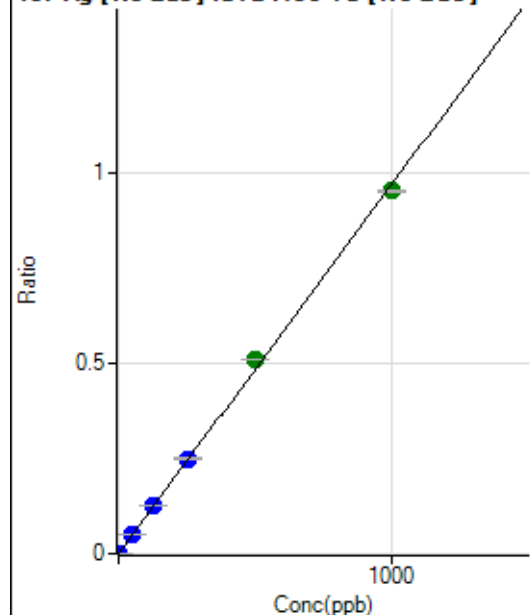
$$DL = 4.635$$

$$BEC = 19.76$$

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	36.11	0.0000	P	59.9
2	☐	1.000	0.901	3211.56	0.0009	P	5.0
3	☐	50.000	51.852	182012.64	0.0502	P	2.9
4	☐	125.000	130.132	455750.37	0.1261	P	1.3
5	☐	250.000	257.475	907603.98	0.2494	P	1.9
6	☐	500.000	527.947	1796941.29	0.5115	A	0.4
7	☐	1000.000	983.424	3562558.58	0.9527	A	0.6
8	☐			4203.55	0.0012	P	6.7

$$y = 9.6874\text{E-}004 * x + 1.0203\text{E-}005$$

$$R = 0.9994$$

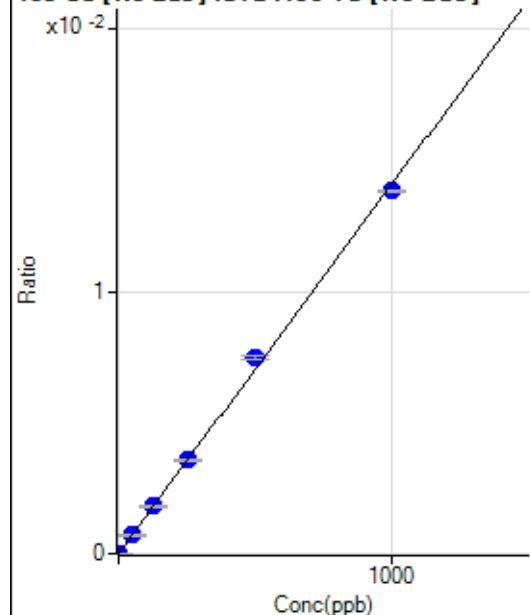
$$DL = 0.01893$$

$$BEC = 0.01053$$

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	9.72	0.0000	P	67.2
2	☐	1.000	1.217	72.22	0.0000	P	27.5
3	☐	50.000	50.084	2561.39	0.0007	P	10.6
4	☐	125.000	128.395	6543.31	0.0018	P	2.8
5	☐	250.000	254.002	13021.54	0.0036	P	1.4
6	☐	500.000	531.154	26280.72	0.0075	P	1.1
7	☐	1000.000	982.994	51763.42	0.0138	P	0.6
8	☐			101.39	0.0000	P	8.0

$$y = 1.4078\text{E-}005 * x + 2.7496\text{E-}006$$

$$R = 0.9993$$

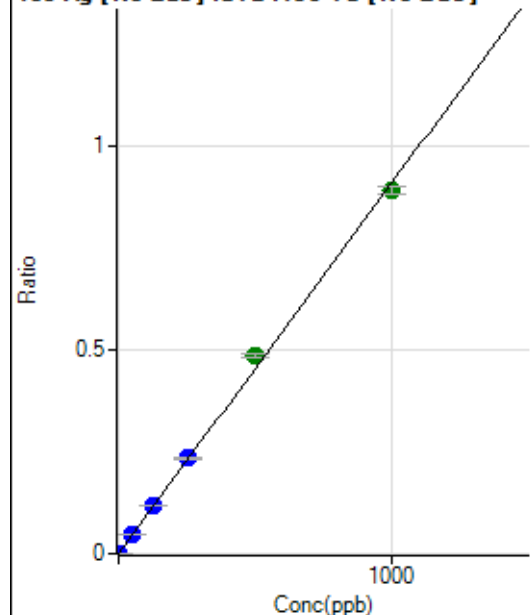
$$DL = 0.394$$

$$BEC = 0.1953$$

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	38.89	0.0000	P	31.2
2	☐	1.000	0.922	3092.08	0.0009	P	3.6
3	☐	50.000	51.640	170430.26	0.0470	P	1.5
4	☐	125.000	130.170	428546.72	0.1185	P	0.4
5	☐	250.000	257.928	854607.06	0.2349	P	2.3
6	☐	500.000	535.609	1713350.30	0.4877	A	1.9
7	☐	1000.000	979.485	3335036.97	0.8919	A	1.9
8	☐			3795.07	0.0010	P	2.6

$$y = 9.1060\text{E-}004 * x + 1.0848\text{E-}005$$

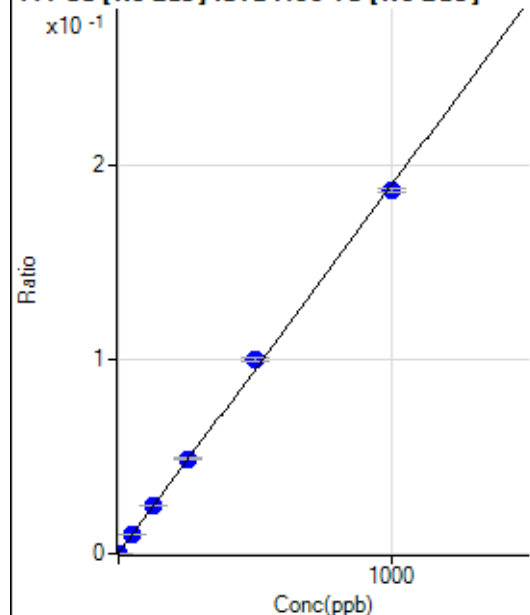
$$R = 0.9990$$

$$DL = 0.01116$$

$$BEC = 0.01191$$

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	722.41	0.0002	P	8.9
2	☐	1.000	1.265	1606.51	0.0004	P	8.5
3	☐	50.000	51.163	35867.48	0.0099	P	1.4
4	☐	125.000	130.089	89856.29	0.0249	P	0.4
5	☐	250.000	257.332	178176.67	0.0490	P	2.2
6	☐	500.000	524.826	350109.72	0.0997	P	2.0
7	☐	1000.000	985.059	698800.25	0.1869	P	1.2
8	☐			1638.86	0.0005	P	4.2

$$y = 1.8951\text{E-}004 * x + 2.0231\text{E-}004$$

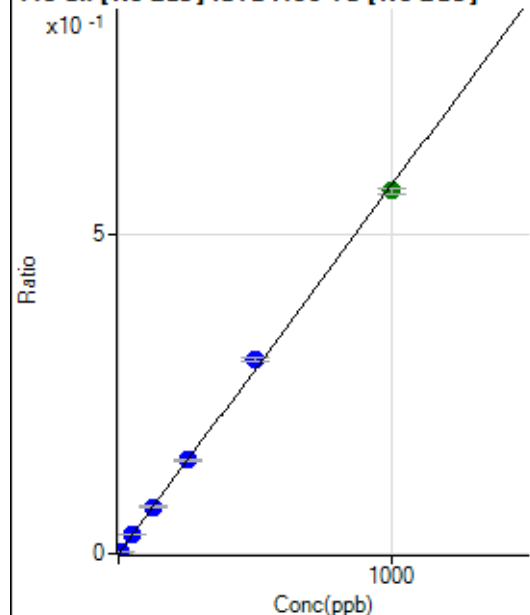
$$R = 0.9995$$

$$DL = 0.2834$$

$$BEC = 1.068$$

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	241.68	0.0001	P	22.9
2	☐	5.000	4.793	10304.12	0.0028	P	4.3
3	☐	50.000	50.816	106512.86	0.0294	P	3.1
4	☐	125.000	127.506	266305.93	0.0737	P	0.5
5	☐	250.000	255.435	536712.45	0.1475	P	2.1
6	☐	500.000	526.299	1067442.95	0.3038	P	1.4
7	☐	1000.000	985.139	2126400.42	0.5687	A	1.6
8	☐			2416.96	0.0007	P	2.0

$$y = 5.7720\text{E-}004 * x + 6.7772\text{E-}005$$

$$R = 0.9995$$

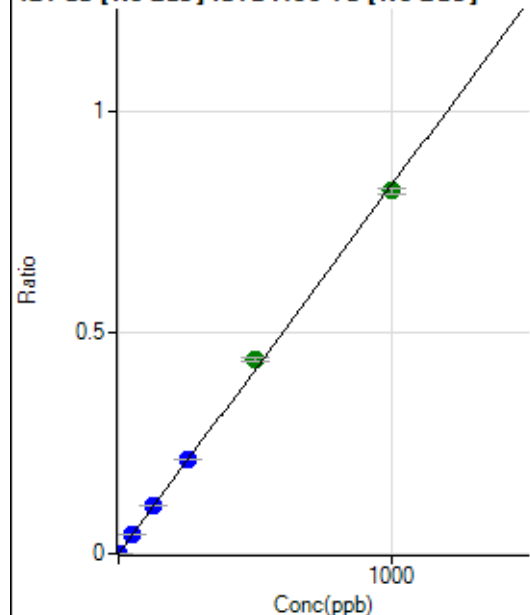
$$DL = 0.0805$$

$$BEC = 0.1174$$

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	8.33	0.0000	P	2.7
2	☐	2.000	1.836	5565.18	0.0015	P	0.1
3	☐	50.000	51.097	154095.60	0.0425	P	2.4
4	☐	125.000	129.003	388159.55	0.1074	P	0.7
5	☐	250.000	255.693	774381.20	0.2128	P	1.9
6	☐	500.000	525.861	1537588.68	0.4377	A	1.6
7	☐	1000.000	985.092	3066193.14	0.8199	A	1.4
8	☐			4814.86	0.0013	P	4.7

$$y = 8.3232\text{E-}004 * x + 2.3314\text{E-}006$$

$$R = 0.9995$$

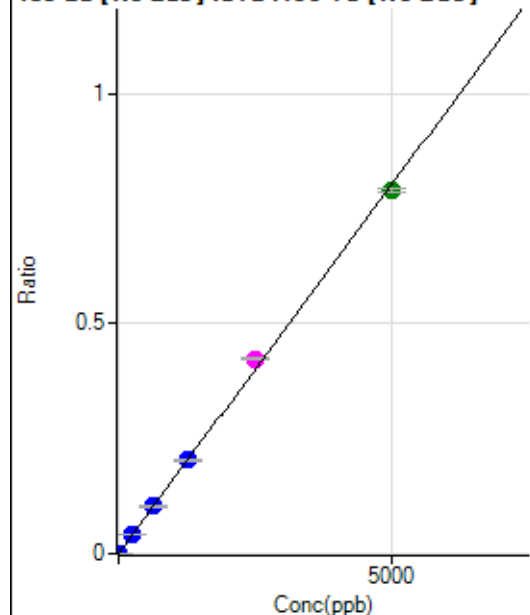
$$DL = 0.0002241$$

$$BEC = 0.002801$$

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	5.56	0.0000	P	173.2
2	☐	10.000	9.344	5451.26	0.0015	P	4.3
3	☐	250.000	251.534	146130.27	0.0403	P	1.4
4	☐	625.000	641.206	371594.90	0.1028	P	0.8
5	☐	1250.000	1272.818	742450.09	0.2040	P	1.7
6	☐	2500.000	2645.318	1489726.95	0.4241	M	1.5
7	☐	5000.000	4919.535	2948951.04	0.7886	A	0.9
8	☐			7752.44	0.0021	P	3.1

$$y = 1.6031\text{E-}004 * x + 1.5087\text{E-}006$$

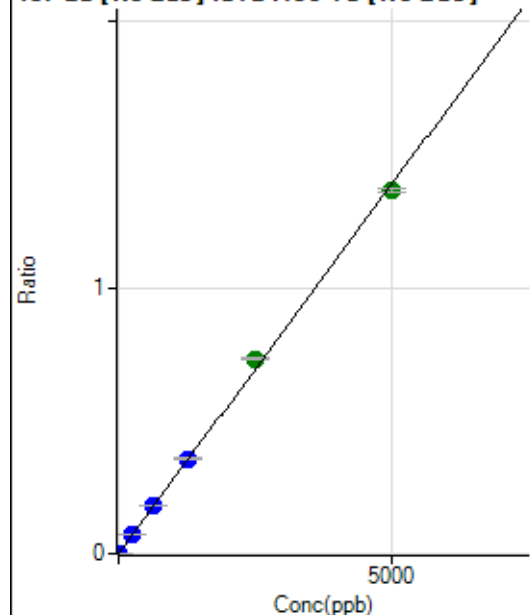
$$R = 0.9993$$

$$DL = 0.0489$$

$$BEC = 0.009411$$

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	30.56	0.0000	P	28.6
2	☐	10.000	9.479	9595.29	0.0026	P	2.4
3	☐	250.000	254.843	256330.64	0.0707	P	1.5
4	☐	625.000	645.284	647493.33	0.1791	P	0.4
5	☐	1250.000	1289.075	1301771.50	0.3578	P	2.8
6	☐	2500.000	2643.597	2577594.76	0.7337	A	1.5
7	☐	5000.000	4915.656	5101650.11	1.3643	A	1.1
8	☐			13782.43	0.0038	P	2.4

$$y = 2.7755E-004 * x + 8.5058E-006$$

$$R = 0.9993$$

$$DL = 0.02629$$

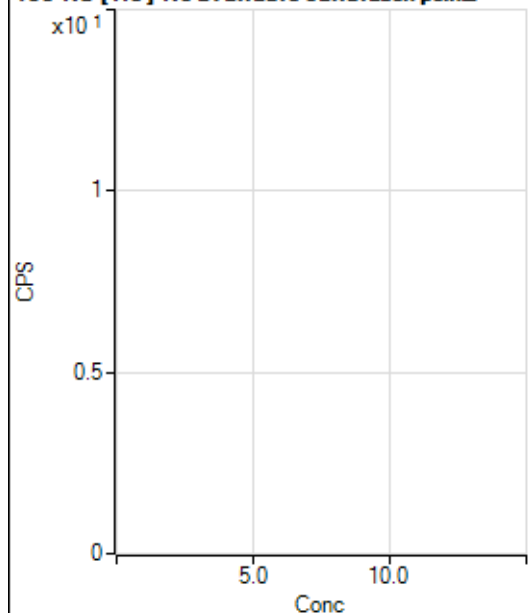
$$BEC = 0.03065$$

Weight: <None>

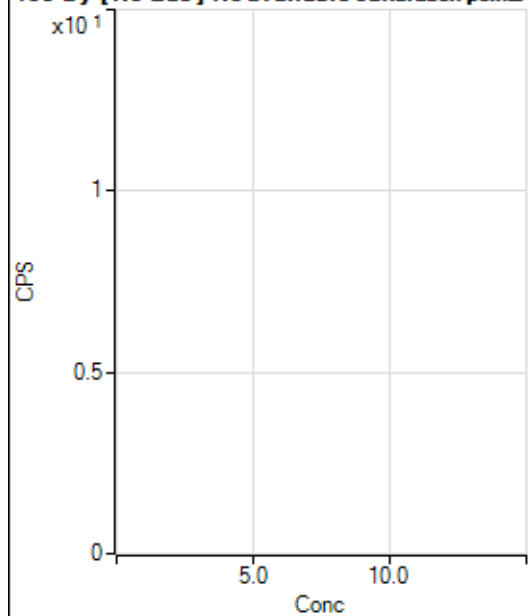
Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			15.55		P	24.8
3	☐			13.33		P	100.0
4	☐			31.11		P	49.5
5	☐			40.00		P	76.4
6	☐			57.78		P	35.3
7	☐			106.67		P	6.3
8	☐			17.78		P	114.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			2.22		P	86.6
5	☐			7.78		P	65.5
6	☐			7.78		P	65.5
7	☐			13.33		P	66.2
8	☐			5.55		P	124.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	173.2
2	☐			16.67		P	50.0
3	☐			19.44		P	65.5
4	☐			16.66		P	86.6
5	☐			33.33		P	0.0
6	☐			75.00		P	11.1
7	☐			63.89		P	27.2
8	☐			175.01		P	34.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			1.11		P	173.2
4	☐			4.44		P	114.6
5	☐			12.22		P	83.3
6	☐			17.78		P	60.3
7	☐			18.89		P	36.7
8	☐			86.67		P	21.4

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	66.7
2	☐			30.56		P	56.8
3	☐			30.56		P	83.3
4	☐			44.45		P	39.0
5	☐			55.56		P	31.2
6	☐			66.67		P	57.3
7	☐			100.00		P	30.0
8	☐			155.56		P	17.2

160 Gd [He] No available calibration points

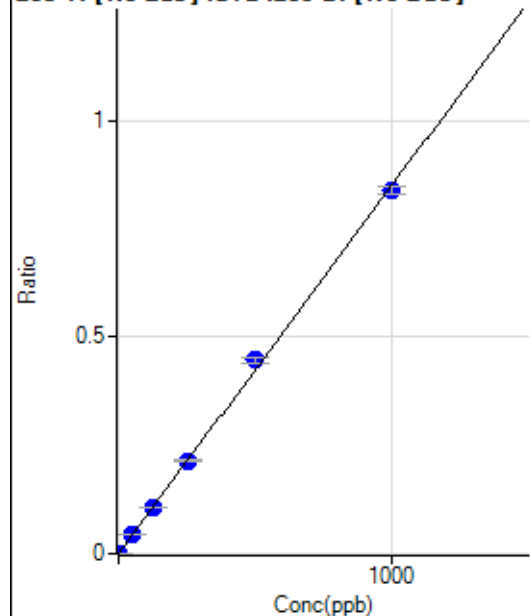
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.45		P	26.7
2	☐			10.00		P	88.2
3	☐			21.11		P	48.2
4	☐			10.00		P	88.2
5	☐			20.00		P	50.0
6	☐			20.00		P	28.9
7	☐			37.78		P	27.0
8	☐			126.67		P	30.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	88.2
2	☐			16.67		P	50.0
3	☐			13.89		P	34.7
4	☐			22.22		P	21.6
5	☐			33.33		P	90.1
6	☐			27.78		P	45.8
7	☐			41.67		P	0.0
8	☐			38.89		P	32.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			16.67		P	20.0
3	☐			8.89		P	86.6
4	☐			6.67		P	50.0
5	☐			12.22		P	56.8
6	☐			8.89		P	21.6
7	☐			15.55		P	44.6
8	☐			21.11		P	24.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	173.2
2	☐	1.000	0.887	1350.11	0.0008	P	7.6
3	☐	50.000	51.048	75911.28	0.0434	P	1.6
4	☐	125.000	125.926	192300.72	0.1070	P	1.8
5	☐	250.000	251.883	384954.37	0.2140	P	1.7
6	☐	500.000	525.788	776059.55	0.4466	P	3.8
7	☐	1000.000	986.467	1558401.55	0.8380	P	2.2
8	☐			2255.83	0.0013	P	7.6

$$y = 8.4947E-004 * x + 6.1929E-006$$

$$R = 0.9995$$

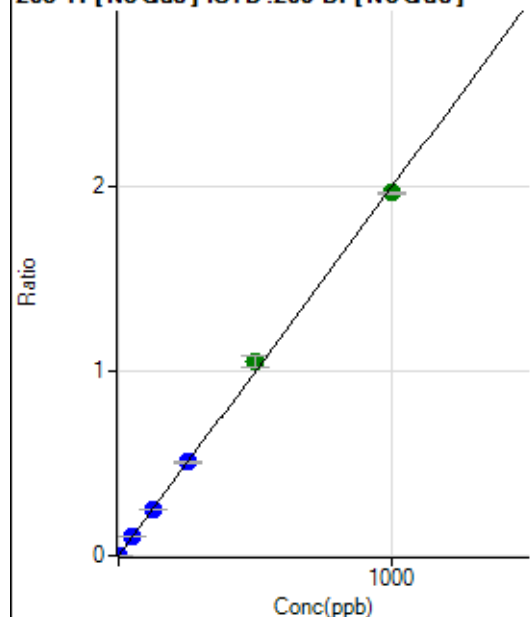
$$DL = 0.03788$$

$$BEC = 0.00729$$

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	33.33	0.0000	P	3.2
2	☐	1.000	0.938	3364.43	0.0019	P	4.1
3	☐	50.000	51.007	178359.41	0.1019	P	3.2
4	☐	125.000	126.383	453940.99	0.2525	P	1.2
5	☐	250.000	253.249	910310.40	0.5060	P	2.1
6	☐	500.000	528.065	1832472.26	1.0551	A	5.9
7	☐	1000.000	984.932	3660066.14	1.9679	A	0.5
8	☐			4901.08	0.0029	P	12.5

$$y = 0.0020 * x + 1.8906E-005$$

$$R = 0.9994$$

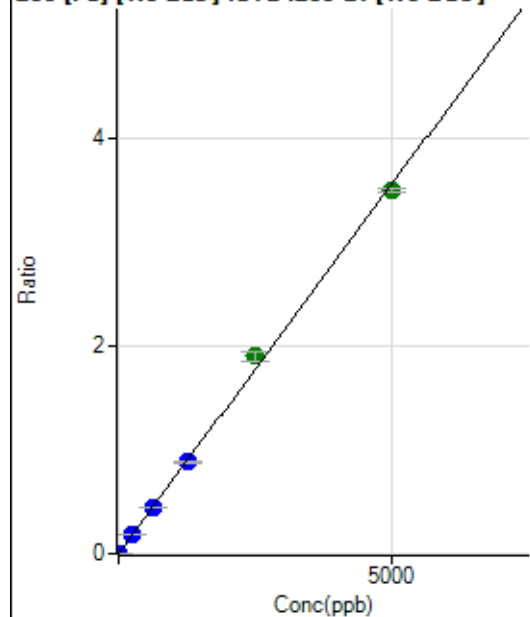
$$DL = 0.0009064$$

$$BEC = 0.009462$$

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	168.52	0.0001	P	16.3
2	☐	1.000	0.916	1324.17	0.0007	P	10.5
3	☐	250.000	254.055	315392.38	0.1803	P	3.9
4	☐	625.000	622.874	794246.86	0.4418	P	0.8
5	☐	1250.000	1247.186	1591292.28	0.8846	P	2.6
6	☐	2500.000	2670.904	3290876.20	1.8943	A	4.4
7	☐	5000.000	4915.315	6483382.61	3.4860	A	1.0
8	☐			7663.51	0.0045	P	1.7

$$y = 7.0919E-004 * x + 9.5524E-005$$

$$R = 0.9991$$

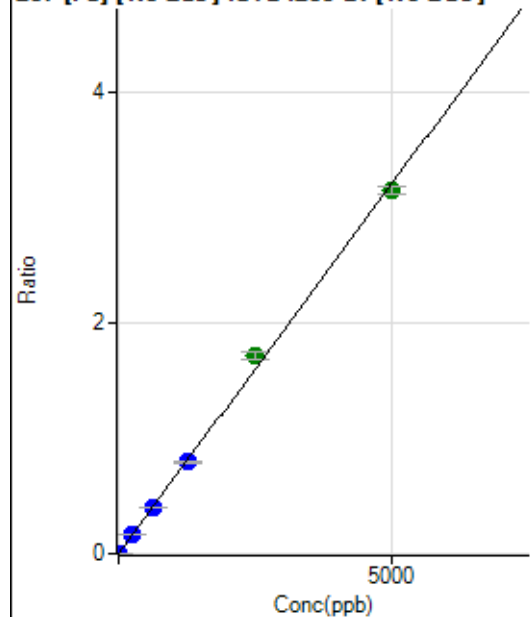
$$DL = 0.06594$$

$$BEC = 0.1347$$

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	151.86	0.0001	P	16.4
2	☐	1.000	0.842	1111.18	0.0006	P	3.1
3	☐	250.000	253.892	284815.53	0.1628	P	2.8
4	☐	625.000	625.559	720631.35	0.4009	P	1.0
5	☐	1250.000	1241.170	1430745.40	0.7953	P	3.2
6	☐	2500.000	2684.280	2988176.69	1.7199	A	4.2
7	☐	5000.000	4909.803	5850374.32	3.1458	A	2.0
8	☐			6903.80	0.0040	P	4.0

$$y = 6.4070\text{E-}004 * x + 8.5954\text{E-}005$$

$$R = 0.9990$$

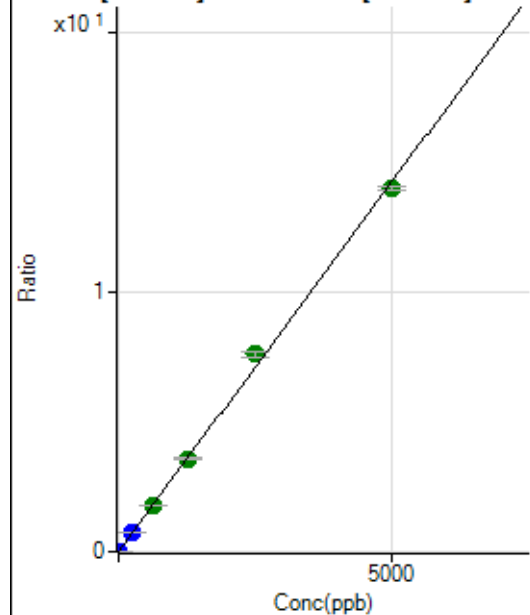
$$DL = 0.06592$$

$$BEC = 0.1342$$

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	672.24	0.0004	P	10.3
2	☐	1.000	0.883	5144.94	0.0029	P	2.4
3	☐	250.000	254.878	1269694.14	0.7256	P	2.8
4	☐	625.000	626.208	3203449.28	1.7821	A	0.7
5	☐	1250.000	1260.963	6454607.38	3.5880	A	2.9
6	☐	2500.000	2669.819	13198955.82	7.5965	A	3.8
7	☐	5000.000	4911.955	25992458.28	13.9758	A	1.2
8	☐			30740.59	0.0180	P	0.6

$$y = 0.0028 * x + 3.8174\text{E-}004$$

$$R = 0.9991$$

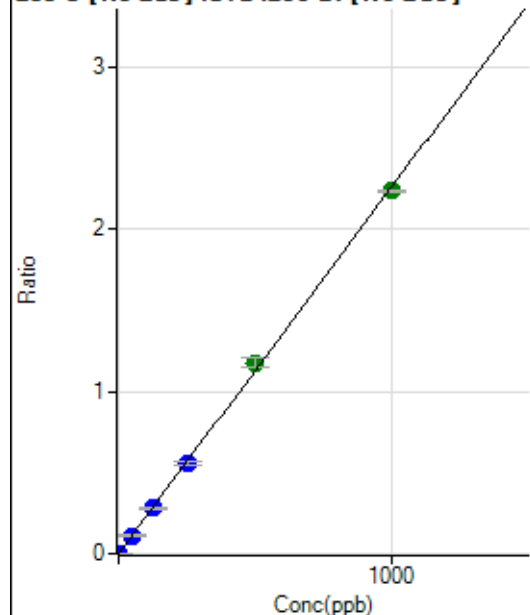
$$DL = 0.0416$$

$$BEC = 0.1342$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.1
2	☐	1.000	0.860	3464.46	0.0020	P	2.2
3	☐	50.000	49.279	194583.47	0.1112	P	3.7
4	☐	125.000	123.352	500367.86	0.2784	P	1.6
5	☐	250.000	247.542	1004828.89	0.5586	P	3.3
6	☐	500.000	521.403	2043948.46	1.1766	A	4.5
7	☐	1000.000	990.155	4155765.20	2.2344	A	0.8
8	☐			4128.56	0.0024	P	3.4

$$y = 0.0023 * x + 9.4504E-006$$

$$R = 0.9997$$

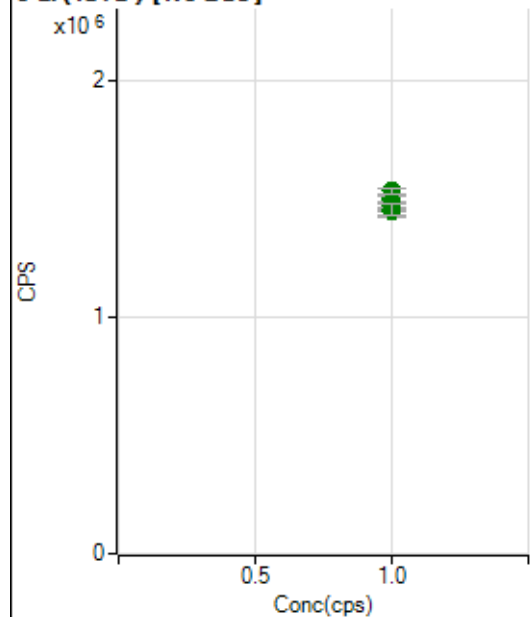
$$DL = 0.006169$$

$$BEC = 0.004188$$

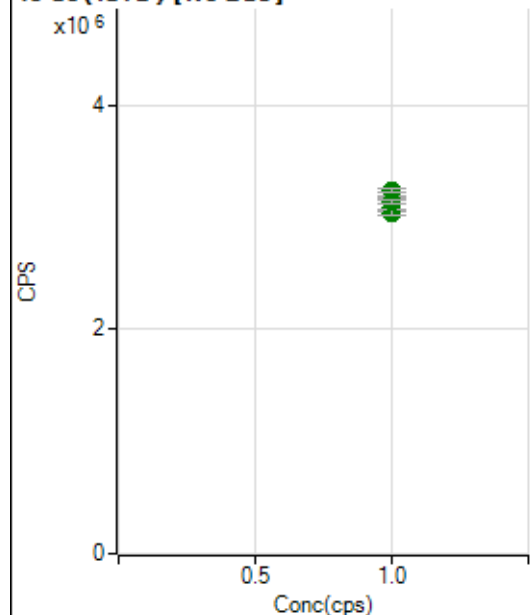
Weight: <None>

Min Conc: 0

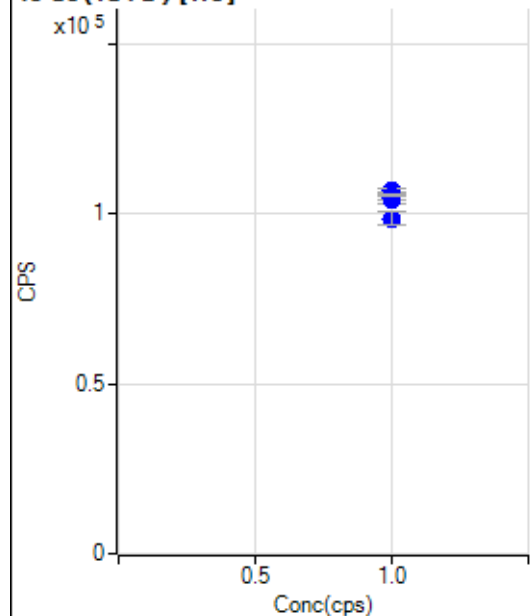
6 Li (ISTD) [No Gas]



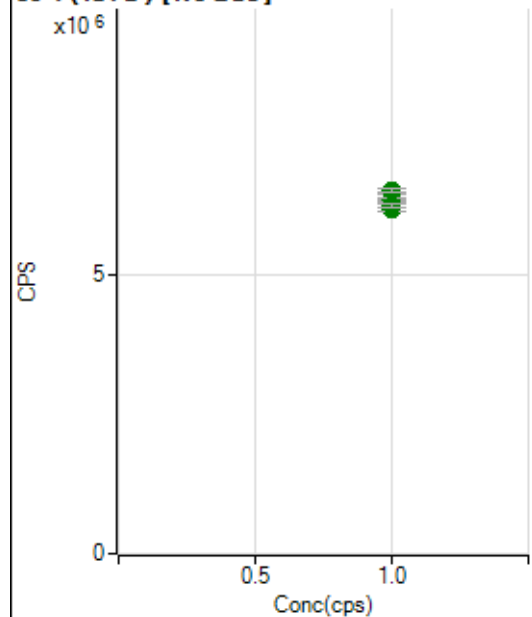
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1467017.81		A	2.8
2	☐	1.000		1500461.93		A	2.2
3	☐	1.000		1467601.80		A	2.1
4	☐	1.000		1493964.82		A	2.0
5	☐	1.000		1511924.86		A	0.5
6	☐	1.000		1443056.91		A	3.0
7	☐	1.000		1532481.35		A	1.8
8	☐	1.000		1455201.16		A	3.2

45 Sc (ISTD) [No Gas]

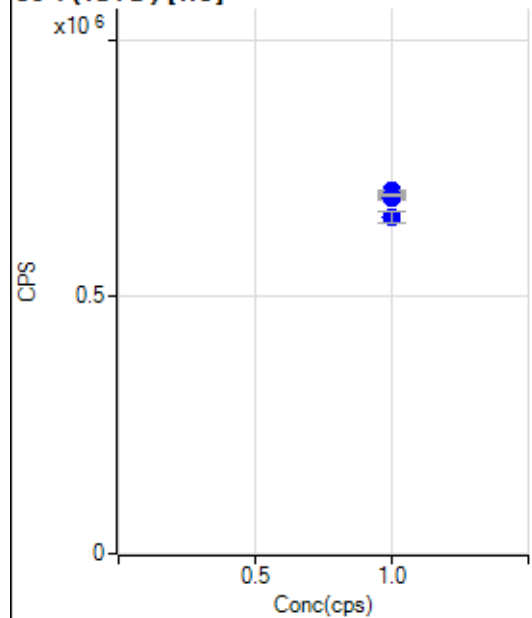
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3091483.67		A	2.4
2	☐	1.000		3138002.63		A	1.4
3	☐	1.000		3097115.27		A	1.8
4	☐	1.000		3168206.20		A	1.1
5	☐	1.000		3144714.54		A	1.7
6	☐	1.000		3046628.98		A	1.6
7	☐	1.000		3238492.52		A	1.0
8	☐	1.000		3139036.97		A	1.1

45 Sc (ISTD) [He]

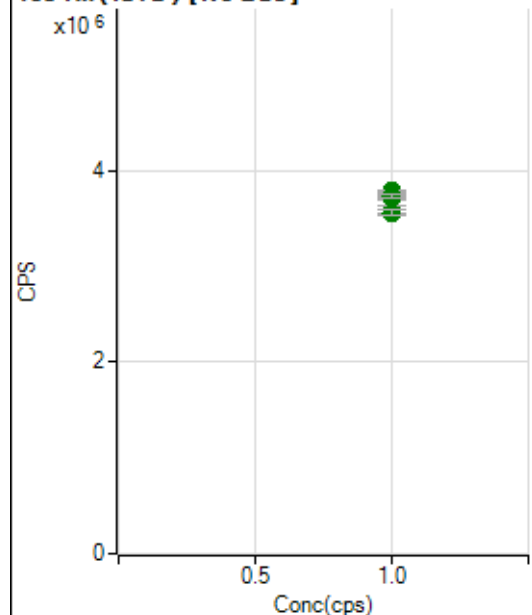
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		103999.73		P	2.1
2	☐	1.000		106695.75		P	0.9
3	☐	1.000		105033.72		P	1.7
4	☐	1.000		105462.41		P	1.0
5	☐	1.000		104615.50		P	3.2
6	☐	1.000		104155.03		P	0.2
7	☐	1.000		105438.02		P	1.0
8	☐	1.000		98587.01		P	4.0

89 Y (ISTD) [No Gas]

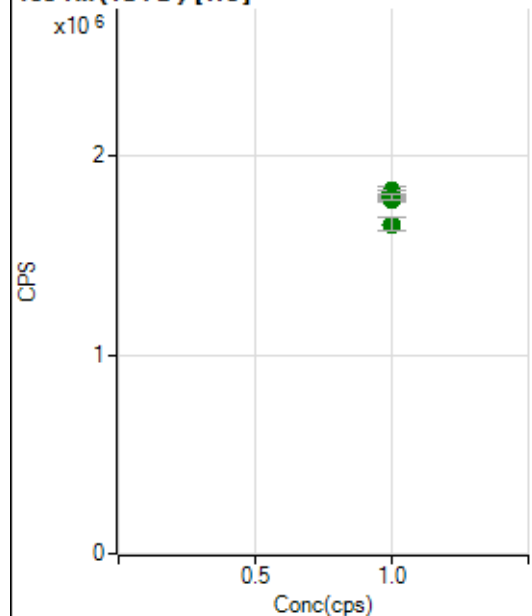
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6314013.79		A	2.4
2	☐	1.000		6373784.83		A	0.5
3	☐	1.000		6241721.78		A	2.2
4	☐	1.000		6417152.41		A	1.3
5	☐	1.000		6365566.85		A	1.1
6	☐	1.000		6188408.17		A	1.4
7	☐	1.000		6527753.09		A	1.2
8	☐	1.000		6270349.00		A	0.9

89 Y (ISTD) [He]

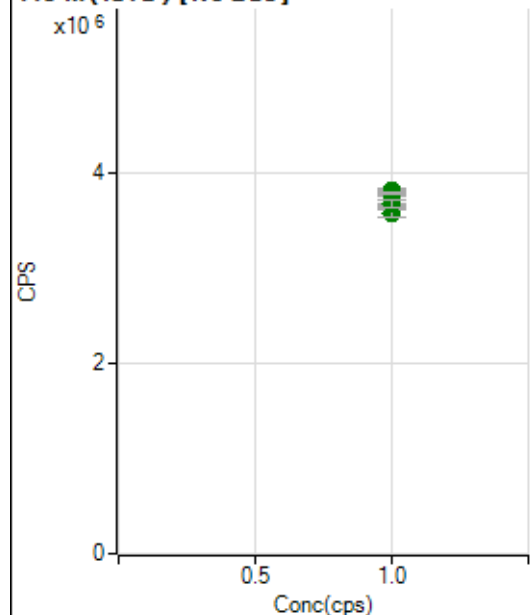
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		698655.19		P	0.9
2	☐	1.000		705592.75		P	0.2
3	☐	1.000		706116.47		P	0.5
4	☐	1.000		701820.05		P	0.6
5	☐	1.000		700840.76		P	2.1
6	☐	1.000		693964.85		P	1.0
7	☐	1.000		697774.76		P	1.0
8	☐	1.000		655474.63		P	3.3

103 Rh (ISTD) [No Gas]

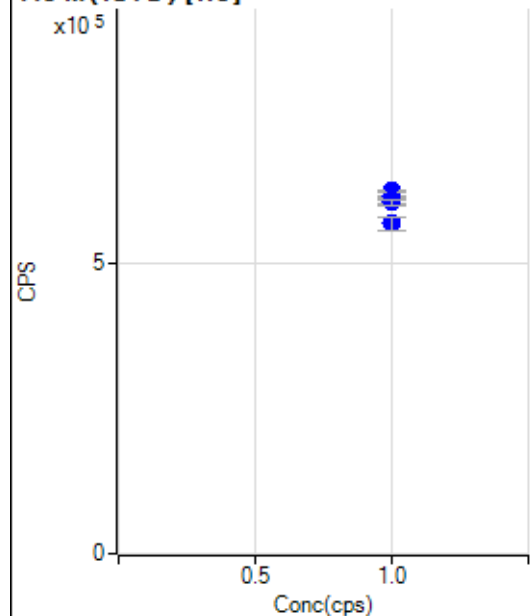
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3734939.67		A	2.8
2	☐	1.000		3758337.67		A	1.8
3	☐	1.000		3711452.99		A	1.6
4	☐	1.000		3784898.65		A	0.6
5	☐	1.000		3729483.42		A	1.6
6	☐	1.000		3591781.77		A	2.0
7	☐	1.000		3731316.92		A	0.8
8	☐	1.000		3559310.32		A	1.8

103 Rh (ISTD) [He]

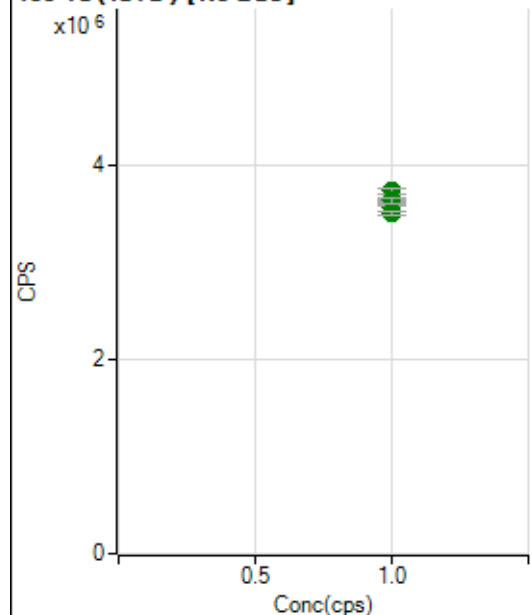
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1795941.20		A	1.3
2	☐	1.000		1812826.27		A	1.6
3	☐	1.000		1823836.34		A	2.0
4	☐	1.000		1815680.29		A	0.8
5	☐	1.000		1799809.84		A	2.8
6	☐	1.000		1776491.71		A	1.2
7	☐	1.000		1792525.08		A	1.4
8	☐	1.000		1657316.10		A	4.5

115 In (ISTD) [No Gas]

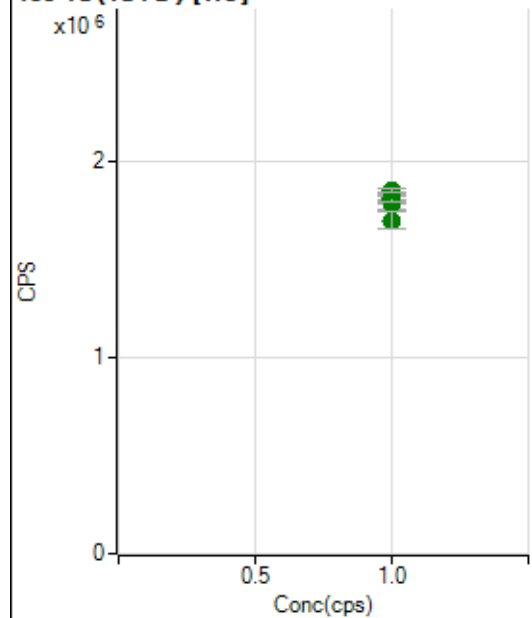
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3721817.50		A	2.5
2	☐	1.000		3795389.01		A	1.0
3	☐	1.000		3715441.58		A	2.9
4	☐	1.000		3815039.44		A	1.3
5	☐	1.000		3786541.32		A	1.7
6	☐	1.000		3586713.59		A	2.3
7	☐	1.000		3795435.92		A	0.5
8	☐	1.000		3680343.12		A	2.3

115 In (ISTD) [He]

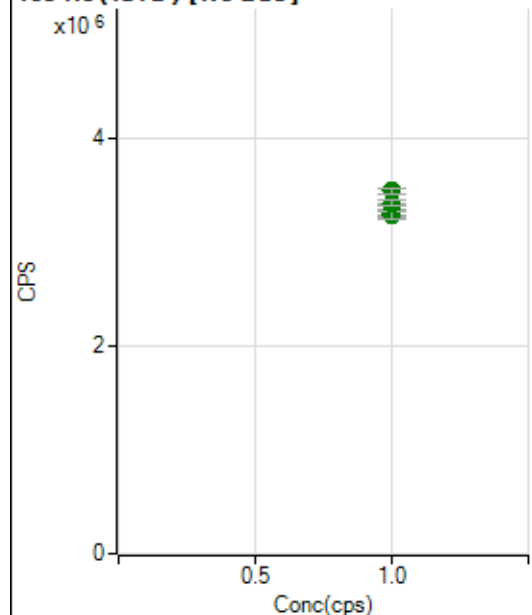
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		614054.34		P	0.9
2	☐	1.000		623499.93		P	0.3
3	☐	1.000		625627.97		P	0.8
4	☐	1.000		625395.78		P	0.4
5	☐	1.000		618094.78		P	2.0
6	☐	1.000		608953.62		P	1.3
7	☐	1.000		605240.65		P	1.1
8	☐	1.000		568917.12		P	3.6

159 Tb (ISTD) [No Gas]

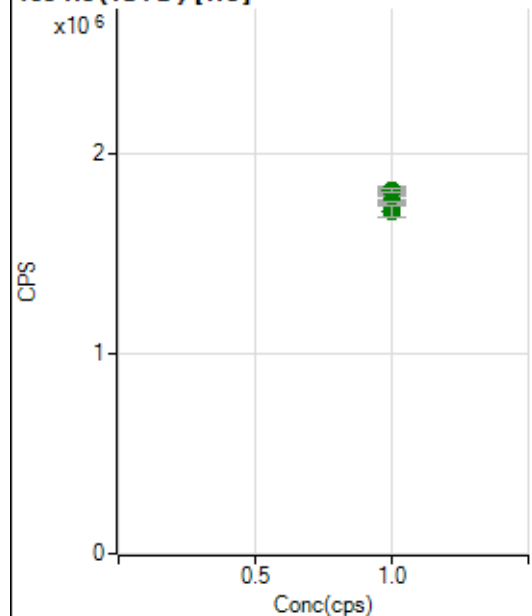
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3574623.52		A	2.7
2	☐	1.000		3635395.57		A	0.4
3	☐	1.000		3624339.74		A	2.3
4	☐	1.000		3615183.21		A	1.1
5	☐	1.000		3639076.93		A	1.1
6	☐	1.000		3513306.30		A	1.0
7	☐	1.000		3739646.51		A	1.4
8	☐	1.000		3640941.06		A	1.4

159 Tb (ISTD) [He]

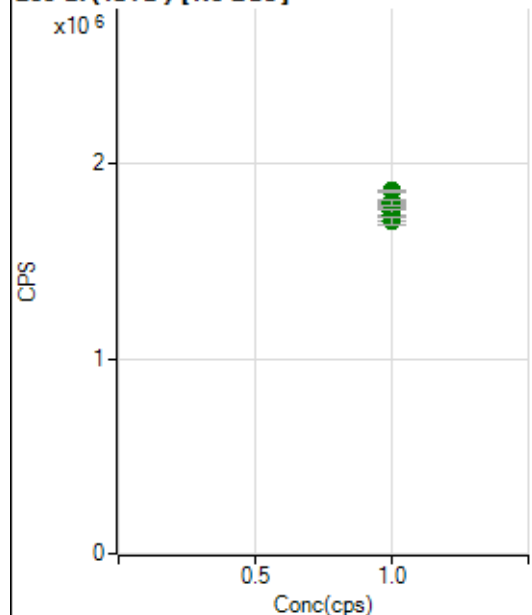
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1778988.45		A	2.7
2	☐	1.000		1785322.02		A	1.0
3	☐	1.000		1802074.54		A	0.2
4	☐	1.000		1792738.34		A	0.8
5	☐	1.000		1802768.67		A	1.7
6	☐	1.000		1810103.41		A	1.8
7	☐	1.000		1845762.70		A	1.1
8	☐	1.000		1696700.67		A	5.6

165 Ho (ISTD) [No Gas]

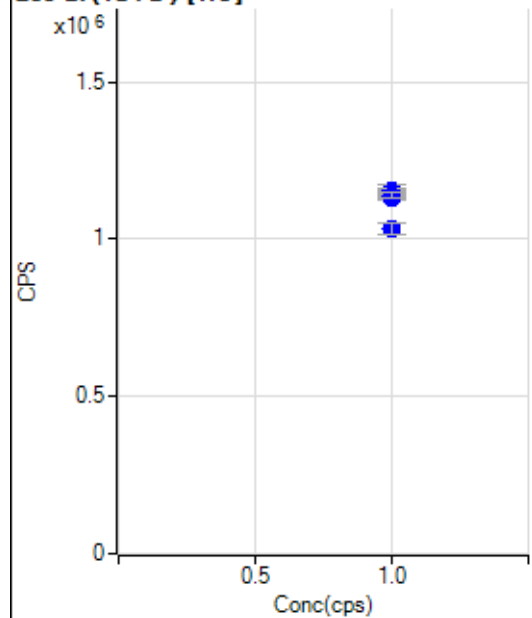
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3298622.75		A	3.0
2	☐	1.000		3285780.70		A	1.6
3	☐	1.000		3308244.19		A	2.9
4	☐	1.000		3375751.79		A	0.4
5	☐	1.000		3381560.91		A	1.6
6	☐	1.000		3269319.56		A	2.2
7	☐	1.000		3497749.30		A	1.3
8	☐	1.000		3382925.38		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1757346.69		A	1.5
2	☐	1.000		1791048.62		A	1.1
3	☐	1.000		1792442.89		A	0.5
4	☐	1.000		1786179.14		A	1.7
5	☐	1.000		1787087.35		A	3.2
6	☐	1.000		1808871.31		A	2.5
7	☐	1.000		1811199.83		A	0.9
8	☐	1.000		1706619.87		A	3.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1764125.55		A	3.1
2	☐	1.000		1776798.86		A	1.1
3	☐	1.000		1750813.20		A	2.7
4	☐	1.000		1797722.77		A	1.2
5	☐	1.000		1799442.58		A	1.8
6	☐	1.000		1738940.93		A	3.4
7	☐	1.000		1859930.82		A	0.8
8	☐	1.000		1708997.82		A	2.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1130237.06		P	1.3
2	☐	1.000		1144938.97		P	0.7
3	☐	1.000		1153042.89		P	0.5
4	☐	1.000		1152795.01		P	0.2
5	☐	1.000		1153674.18		P	3.3
6	☐	1.000		1149985.78		P	2.2
7	☐	1.000		1140171.17		P	1.3
8	☐	1.000		1031883.03		P	3.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8072920 MS.b
Acq. Date-Time 2020-07-29 11:30:35
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		3373	33731.47			1.385	5.000
24		34256	342563.83			1.077	5.000
25		4521	45207.10			1.193	5.000
26		5100	51000.34			1.130	5.000
59		19156	191557.31			0.638	5.000
113		2520	25203.34			1.167	5.000
115		7913	79128.20			2.667	5.000
206		2034	20335.74			0.798	5.000
207		1715	17154.02			1.554	5.000
208		4182	41824.65			1.645	5.000
220		1	11.80			21.313	

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

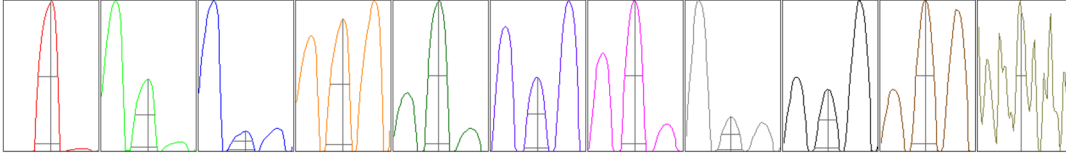
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3413	3369	3389	3295	3400
24	34764	34415	34252	33778	34073
25	4580	4555	4533	4443	4493
26	5160	5157	5078	5025	5080
59	19197	19234	19230	18941	19176
113	2540	2550	2530	2478	2503
115	8209	8021	7880	7660	7794
206	2021	2031	2054	2016	2047
207	1706	1720	1751	1677	1723
208	4148	4172	4269	4093	4230

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	2

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5711.94	9.00	8.90 - 9.10	
24	58334.54	24.00	23.90 - 24.10	
25	7538.46	25.00	24.90 - 25.10	
26	8617.83	26.00	25.90 - 26.10	
59	33108.82	58.95	58.90 - 59.10	
113	4728.98	113.00	112.90 - 113.10	
115	14781.83	115.00	114.90 - 115.10	
206	3787.08	205.95	205.90 - 206.10	
207	3134.40	206.95	206.90 - 207.10	
208	7683.78	207.95	207.90 - 208.10	
220	1.70	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.787	0.900	
24	0.63	0.827	0.900	
25	0.63	0.833	0.900	
26	0.63	0.828	0.900	
59	0.61	0.783	0.900	
113	0.55	0.771	0.900	
115	0.56	0.772	0.900	
206	0.56	0.780	0.900	
207	0.57	0.785	0.900	
208	0.57	0.805	0.900	
220	0.31			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.45 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	7.1 V	Deflect	14.4 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.2 mm
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EM

Discriminator	4.0 mV	Analog HV	2167 V	Pulse HV	1258 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4343	43431.54			0.563	
89		8095	80951.56			0.648	
205		6205	62053.54			0.944	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4369	4320	4322	4369	4336
89	8176	8073	8112	8076	8038
205	6244	6134	6248	6252	6149

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.45 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	7.1 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	190 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	-0.2 mm		
EM					
Discriminator	4.0 mV	Analog HV	2167 V	Pulse HV	1258 V