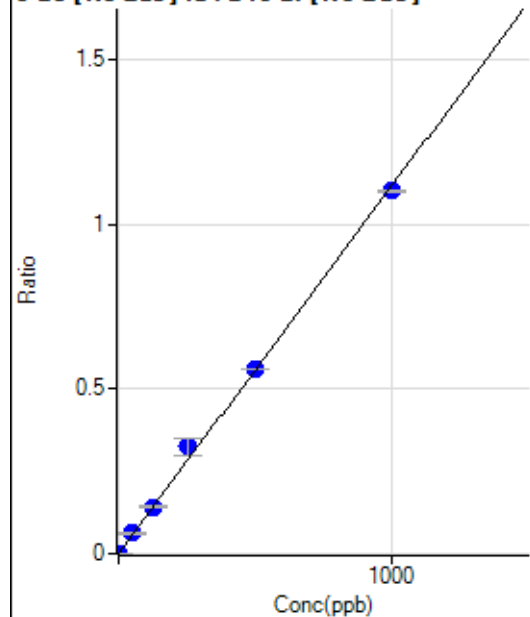


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7101124-MS3.b\
 Analysis File: P7101124-MS3.batch.bin
 DA Date-Time: 2024-10-12 18:31:14
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-10-11 16:24:43
2	005CALS.d	S02	2024-10-11 16:28:06
3	006CALS.d	S03	2024-10-11 16:31:27
4	007CALS.d	S04	2024-10-11 16:34:42
5	008CALS.d	S05	2024-10-11 16:37:44
6	009CALS.d	S06	2024-10-11 16:40:40
7	010CALS.d	S07	2024-10-11 16:43:31
8	011CALS.d	S08	2024-10-11 16:46:19

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	71.14	0.0001	P	13.9
2	☐	1.000	0.968	1148.48	0.0012	P	7.6
3	☐	50.000	54.997	56760.31	0.0613	P	6.8
4	☐	125.000	127.880	141316.66	0.1425	P	1.3
5	☐	250.000	291.422	276882.45	0.3247	P	16.8
6	☐	500.000	503.185	535687.97	0.5606	P	0.7
7	☐	1000.000	987.442	1035807.46	1.1001	P	0.9
8	☐			437.93	0.0005	P	7.7

$$y = 0.0011 * x + 7.6800E-005$$

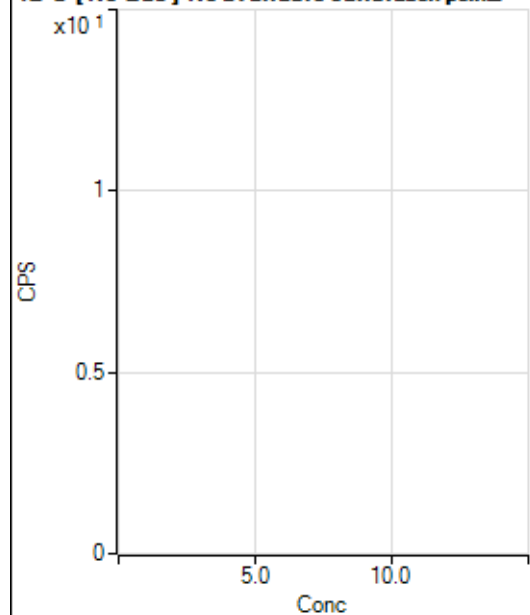
$$R = 0.9990$$

$$DL = 0.02868$$

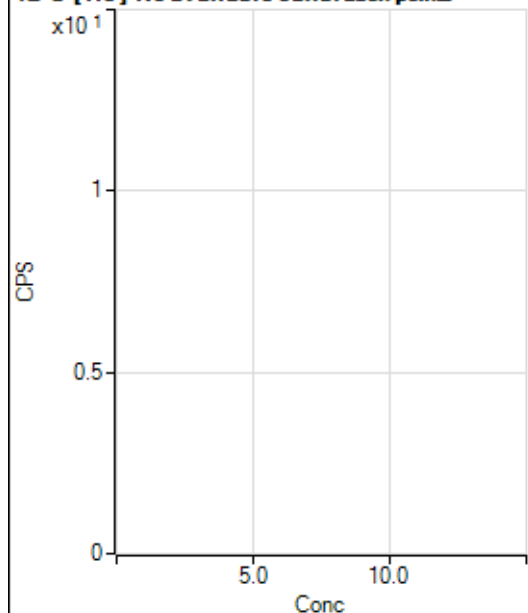
$$BEC = 0.06894$$

Weight: <None>

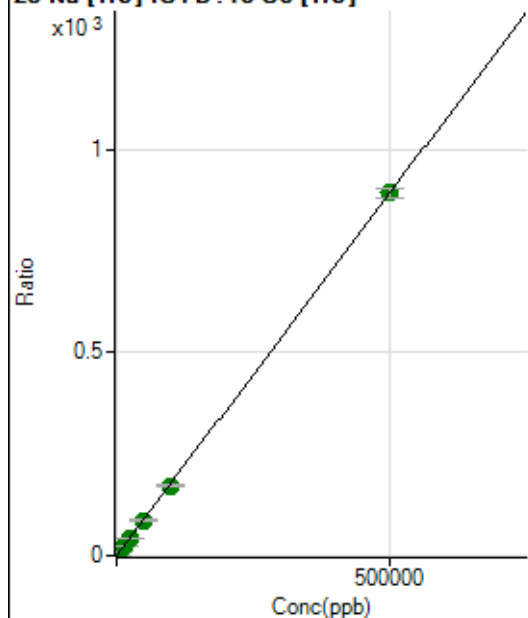
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6468.08	0.0358	P	3.8
2	☐	500.000	529.432	179343.20	0.9808	P	1.2
3	☐	5000.000	4823.933	1569176.28	8.6456	A	0.5
4	☐	12500.000	12155.126	3862002.62	21.7302	A	0.4
5	☐	25000.000	24565.456	7558527.11	43.8801	A	0.3
6	☐	50000.000	48554.020	14868645.89	86.6947	A	3.8
7	☐	100000.00	96588.970	29435373.45	172.4271	A	0.6
8	☐	500000.00	500858.88	150222098.8	893.9650	A	2.4

$$y = 0.0018 * x + 0.0358$$

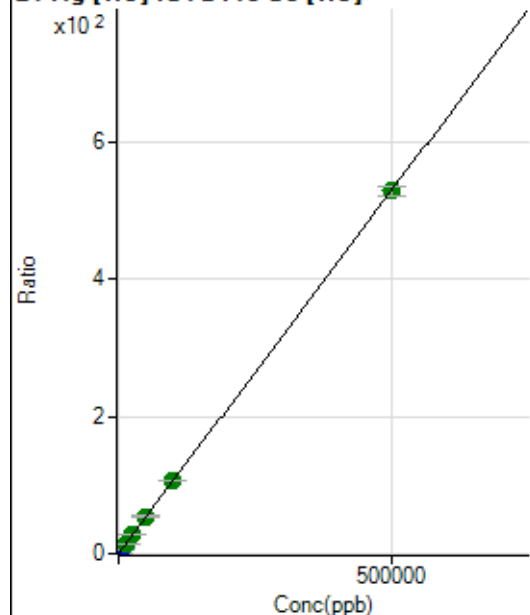
$$R = 1.0000$$

$$DL = 2.288$$

$$BEC = 20.08$$

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	1514.53	0.0084	P	3.2
2	☐	500.000	563.070	110553.22	0.6046	P	0.4
3	☐	5000.000	5286.519	1017467.36	5.6059	P	0.3
4	☐	12500.000	12795.722	2409317.88	13.5568	A	1.0
5	☐	25000.000	25699.576	4688601.18	27.2198	A	0.8
6	☐	50000.000	51159.899	9294253.12	54.1779	A	2.6
7	☐	100000.00	100826.32	18226181.26	106.7660	A	0.1
8	☐	500000.00	499673.44	88900786.45	529.0761	A	2.7

$$y = 0.0011 * x + 0.0084$$

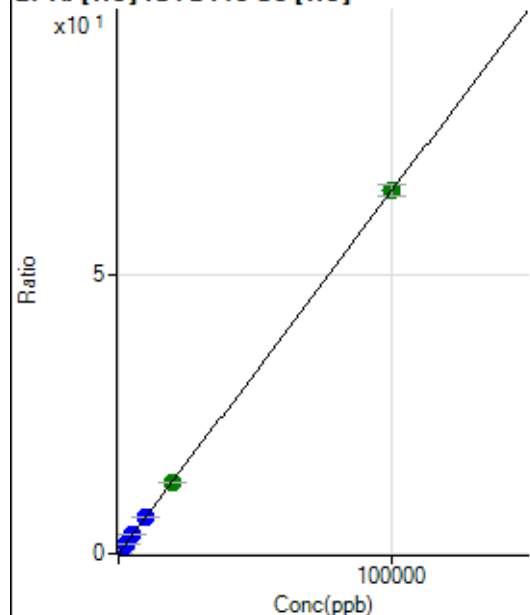
$$R = 1.0000$$

$$DL = 0.7554$$

$$BEC = 7.926$$

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	85.56	0.0005	P	16.0
2	☐	20.000	20.510	2526.90	0.0138	P	3.6
3	☐	1000.000	1015.056	119965.13	0.6610	P	0.1
4	☐	2500.000	2537.401	293509.53	1.6515	P	1.0
5	☐	5000.000	5131.518	575235.53	3.3395	P	0.5
6	☐	10000.000	10085.240	1125635.68	6.5629	P	3.5
7	☐	20000.000	19546.422	2171258.46	12.7192	A	1.2
8	☐	100000.00	100074.53	10940918.59	65.1182	A	3.2

$$y = 6.5069E-004 * x + 4.7398E-004$$

$$R = 1.0000$$

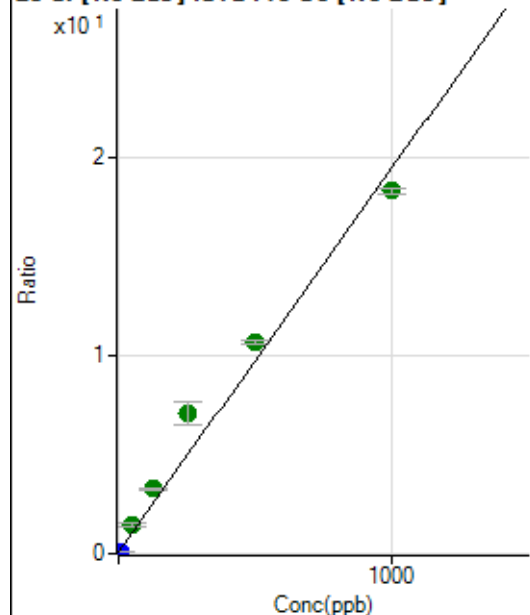
$$DL = 0.3506$$

$$BEC = 0.7284$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	142258.64	0.0685	P	6.2
2	☐	10.000	0.318	158489.08	0.0747	P	1.0
3	☐	50.000	70.717	2891559.64	1.4401	A	9.9
4	☐	125.000	165.022	6792205.25	3.2692	A	0.9
5	☐	250.000	363.814	12386054.54	7.1250	A	16.7
6	☐	500.000	547.296	21063755.38	10.6838	A	1.4
7	☐	1000.000	941.957	36521032.23	18.3385	A	1.7
8	☐			418190.61	0.2175	P	14.8

$$y = 0.0194 * x + 0.0685$$

$$R = 0.9896$$

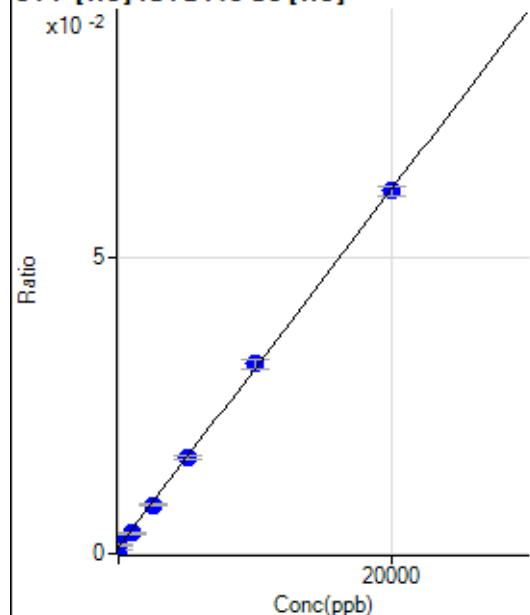
$$DL = 0.6595$$

$$BEC = 3.531$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-149.724	121.12	0.0007	P	3.3
2	☐	0.000	149.724	287.78	0.0016	P	14.7
3	☐	1000.000	798.765	641.13	0.0035	P	7.3
4	☐	2500.000	2339.487	1453.42	0.0082	P	2.3
5	☐	5000.000	4988.069	2784.72	0.0162	P	4.7
6	☐	10000.000	10236.008	5485.48	0.0320	P	4.4
7	☐	20000.000	19915.105	10442.53	0.0612	P	2.4
8	☐			144.45	0.0009	P	33.9

$$y = 3.0153E-006 * x + 0.0011$$

$$R = 0.9997$$

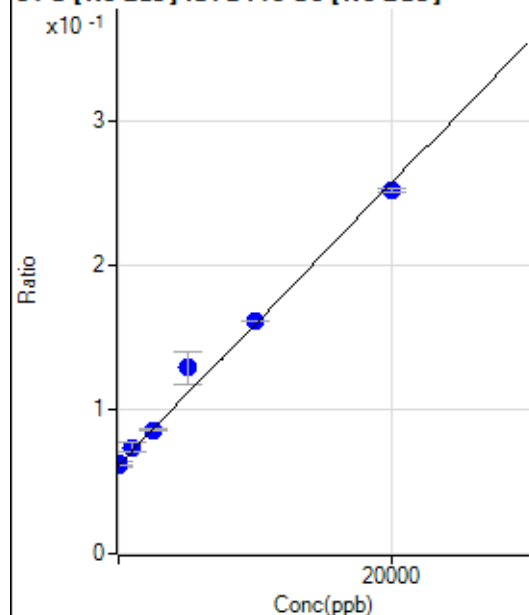
$$DL = 125.7$$

$$BEC = 372.3$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	50.346	128811.91	0.0620	P	6.0
2	☐	0.000	-50.346	129557.79	0.0610	P	0.5
3	☐	1000.000	1257.302	148303.82	0.0738	P	8.6
4	☐	2500.000	2485.470	178270.52	0.0858	P	0.4
5	☐	5000.000	6881.618	223736.93	0.1287	P	17.0
6	☐	10000.000	10186.653	317497.70	0.1610	P	0.6
7	☐	20000.000	19425.220	500443.68	0.2513	P	1.1
8	☐			118520.74	0.0616	P	1.6

$$y = 9.7688\text{E-}006 * x + 0.0615$$

$$R = 0.9946$$

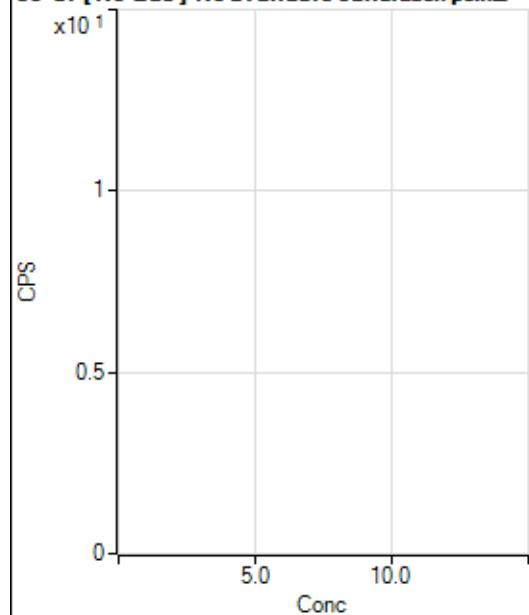
$$DL = 618.8$$

$$BEC = 6298$$

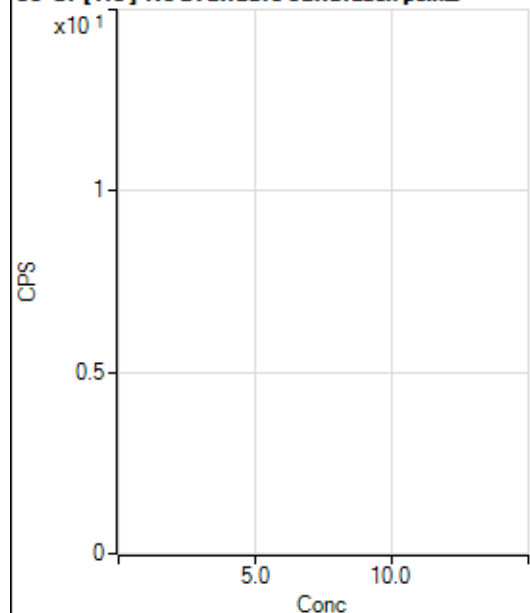
Weight: <None>

Min Conc: 0

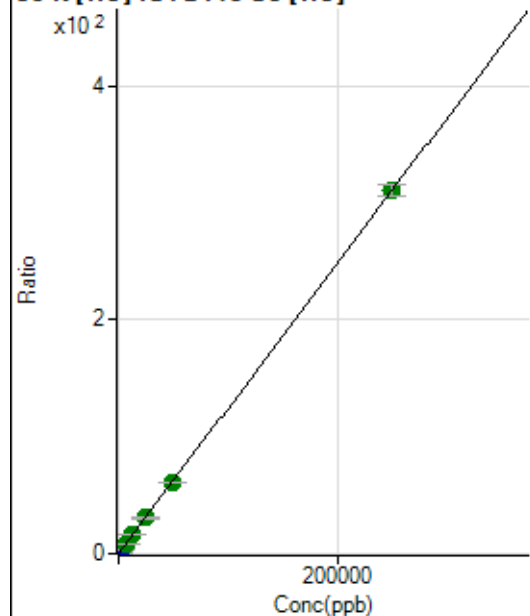
35 Cl [No Gas] No available calibration points



	R _j 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	33155.03	0.1837	P	0.9
2	☐	500.000	551.962	158712.70	0.8680	P	0.5
3	☐	2500.000	2648.982	629352.28	3.4675	P	0.5
4	☐	6250.000	6190.337	1396462.98	7.8576	A	2.0
5	☐	12500.000	12529.698	2707129.23	15.7162	A	1.0
6	☐	25000.000	24414.302	5221719.33	30.4491	A	4.2
7	☐	50000.000	48787.716	10355901.51	60.6638	A	0.7
8	☐	250000.00	250299.44	52164609.78	310.4692	A	3.1

$$y = 0.0012 * x + 0.1837$$

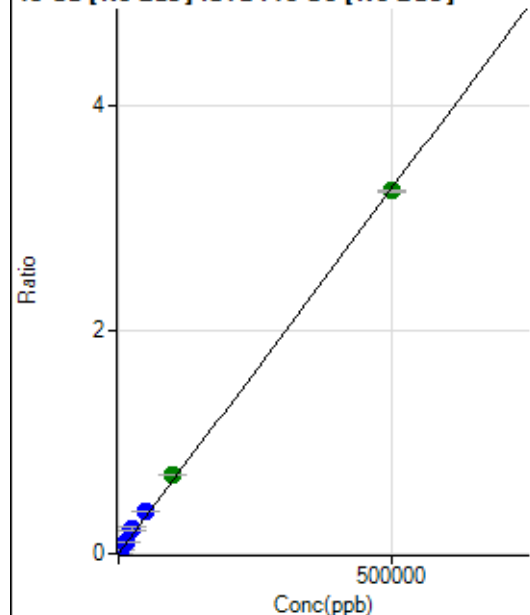
$$R = 1.0000$$

$$DL = 4.015$$

$$BEC = 148.2$$

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	162.22	0.0001	P	19.9
2	☐	500.000	558.397	7889.89	0.0037	P	2.2
3	☐	5000.000	6134.474	80515.22	0.0401	P	8.0
4	☐	12500.000	14606.717	197931.30	0.0953	P	0.9
5	☐	25000.000	34125.122	386329.25	0.2225	P	17.7
6	☐	50000.000	58425.142	750864.41	0.3808	P	0.7
7	☐	100000.00	107841.72	1399797.86	0.7029	A	1.2
8	☐	500000.00	497068.81	6235018.03	3.2394	A	0.3

$$y = 6.5169\text{E-}006 * x + 7.7976\text{E-}005$$

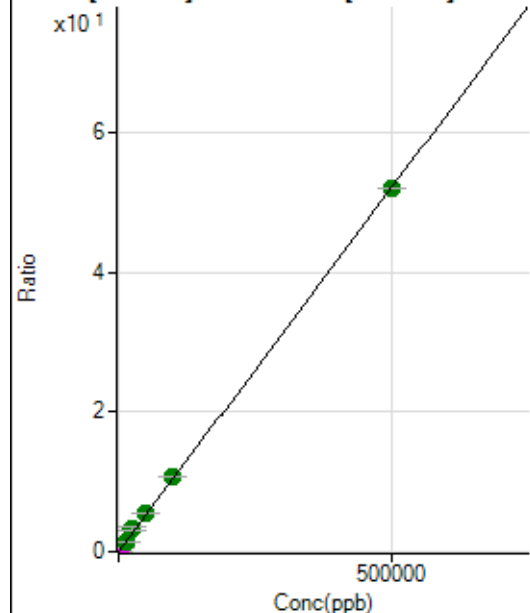
$$R = 0.9997$$

$$DL = 7.144$$

$$BEC = 11.97$$

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	2874.80	0.0014	P	2.4
2	☐	500.000	565.808	128053.48	0.0603	P	1.6
3	☐	5000.000	5781.521	1215977.94	0.6037	M	4.2
4	☐	12500.000	13144.956	2847968.12	1.3708	A	0.6
5	☐	25000.000	31009.350	5613069.29	3.2318	A	17.5
6	☐	50000.000	52915.930	10871724.42	5.5139	A	0.5
7	☐	100000.00	103653.47	21507609.68	10.7995	A	1.2
8	☐	500000.00	498653.23	99988992.95	51.9487	A	0.2

$$y = 1.0418\text{E-}004 * x + 0.0014$$

$$R = 0.9999$$

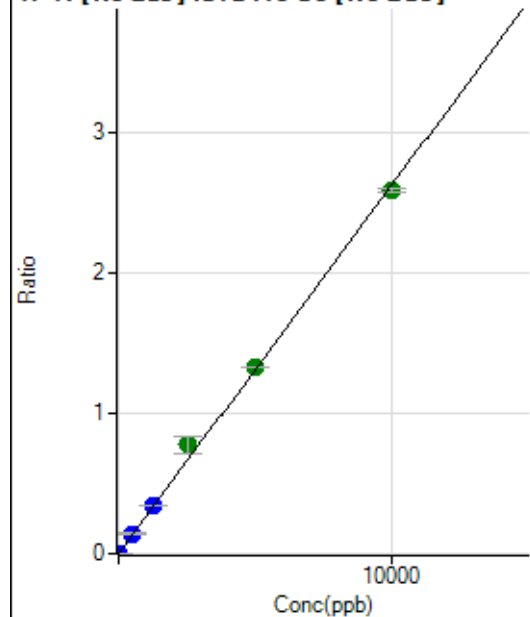
$$DL = 0.9741$$

$$BEC = 13.27$$

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	100.00	0.0000	P	17.2
2	☐	5.000	6.051	3475.99	0.0016	P	2.3
3	☐	500.000	542.095	286088.05	0.1424	P	8.9
4	☐	1250.000	1293.890	706033.52	0.3398	P	0.5
5	☐	2500.000	2952.492	1347035.31	0.7754	A	17.3
6	☐	5000.000	5051.913	2615766.96	1.3267	A	0.2
7	☐	10000.000	9853.329	5153175.45	2.5875	A	1.1
8	☐			1167.83	0.0006	P	7.0

$$y = 2.6260\text{E-}004 * x + 4.8341\text{E-}005$$

$$R = 0.9988$$

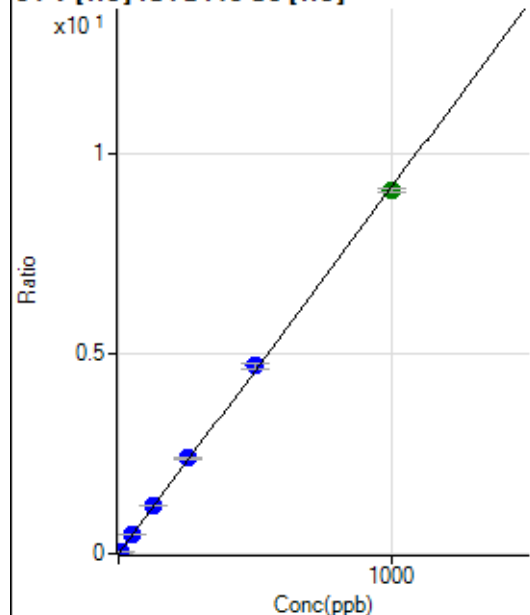
$$DL = 0.0951$$

$$BEC = 0.1841$$

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	1.11	0.0000	P	173.
2	☐	5.000	5.241	8801.52	0.0481	P	1.7
3	☐	50.000	51.276	85461.08	0.4709	P	0.4
4	☐	125.000	129.139	210749.33	1.1859	P	0.9
5	☐	250.000	259.750	410849.84	2.3852	P	0.9
6	☐	500.000	514.030	809661.12	4.7202	P	3.1
7	☐	1000.000	989.965	1551834.72	9.0905	A	1.0
8	☐			326.67	0.0019	P	11.2

$$y = 0.0092 * x + 6.1441\text{E-}006$$

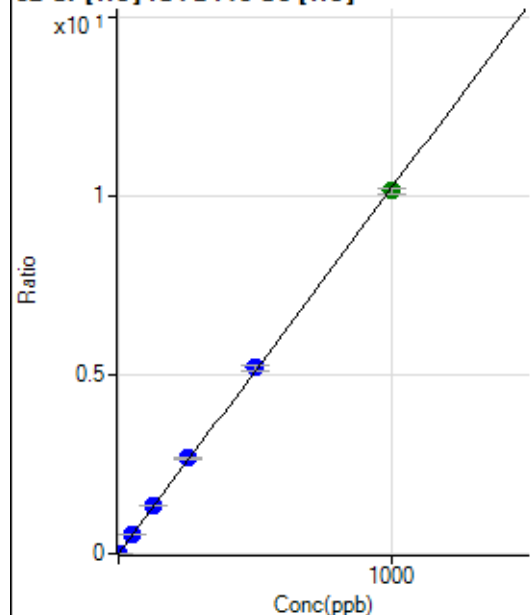
$$R = 0.9998$$

$$DL = 0.003477$$

$$BEC = 0.0006691$$

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	256.67	0.0014	P	8.3
2	☐	2.000	2.155	4285.10	0.0234	P	3.6
3	☐	50.000	51.543	95820.47	0.5279	P	0.6
4	☐	125.000	129.511	235365.27	1.3244	P	1.0
5	☐	250.000	260.738	459027.80	2.6649	P	0.4
6	☐	500.000	508.078	890421.84	5.1914	P	3.5
7	☐	1000.000	992.635	1731183.34	10.1412	A	1.3
8	☐			6285.81	0.0374	P	5.0

$$y = 0.0102 * x + 0.0014$$

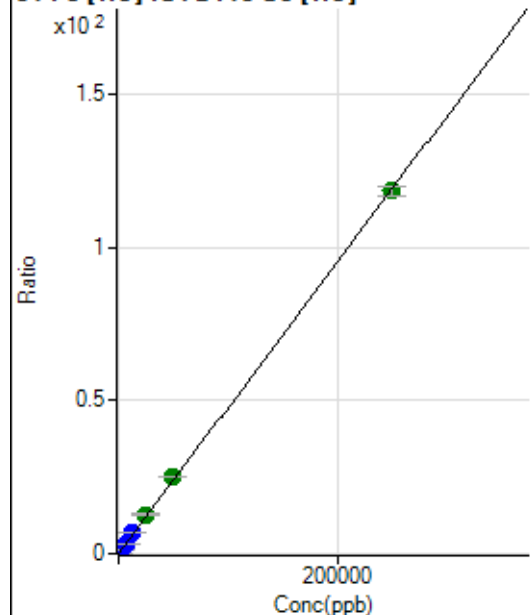
$$R = 0.9999$$

$$DL = 0.03484$$

$$BEC = 0.1392$$

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	1101.16	0.0061	P	4.0
2	☐	50.000	58.646	6213.55	0.0340	P	1.2
3	☐	2500.000	2819.099	244341.26	1.3462	P	0.1
4	☐	6250.000	7100.711	600978.00	3.3816	P	0.7
5	☐	12500.000	14224.073	1165757.05	6.7678	P	0.7
6	☐	25000.000	26643.209	2173592.83	12.6715	A	3.2
7	☐	50000.000	52791.791	4285157.23	25.1018	A	0.6
8	☐	250000.00	249166.65	19904131.09	118.4528	A	2.5

$$y = 4.7537E-004 * x + 0.0061$$

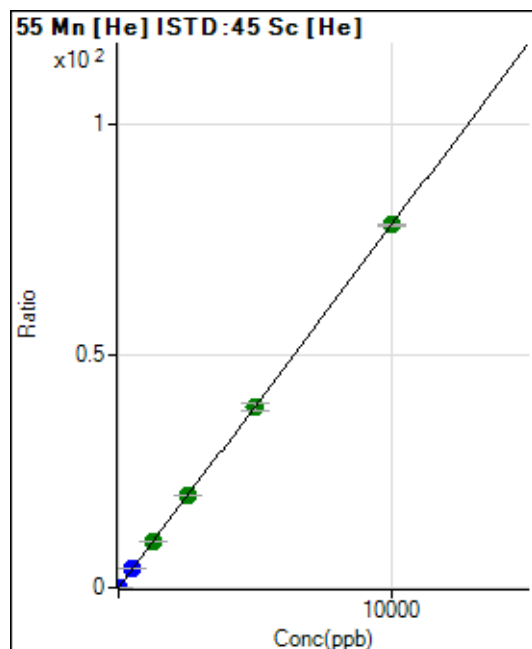
$$R = 0.9999$$

$$DL = 1.53$$

$$BEC = 12.84$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	440.01	0.0024	P	15.6
2	☐	1.000	1.162	2107.95	0.0115	P	2.5
3	☐	500.000	516.035	733324.31	4.0403	P	0.1
4	☐	1250.000	1264.285	1758555.96	9.8953	A	1.6
5	☐	2500.000	2535.598	3417987.06	19.8431	A	0.6
6	☐	5000.000	4979.096	6682561.01	38.9630	A	3.7
7	☐	10000.000	9998.965	13356934.66	78.2427	A	0.3
8	☐			6352.52	0.0378	P	4.6

$$y = 0.0078 * x + 0.0024$$

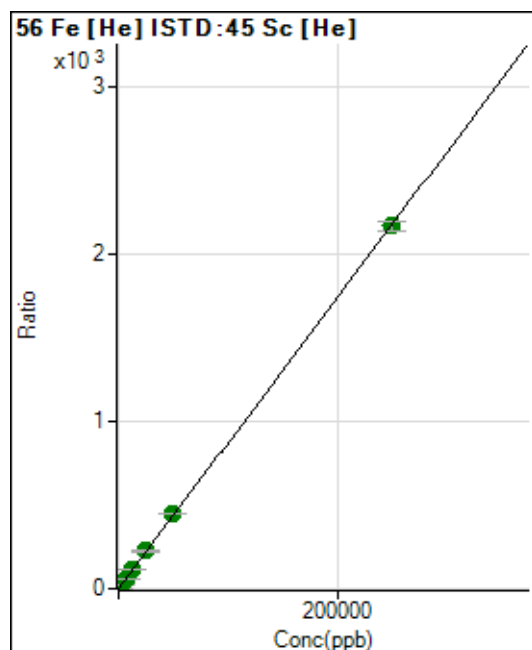
$$R = 1.0000$$

$$DL = 0.1457$$

$$BEC = 0.3117$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7720.93	0.0428	P	1.5
2	☐	50.000	58.953	101536.48	0.5553	P	1.3
3	☐	2500.000	2588.296	4091714.28	22.5436	A	0.3
4	☐	6250.000	6567.431	10154097.97	57.1353	A	0.8
5	☐	12500.000	13187.320	19754173.32	114.6839	A	0.9
6	☐	25000.000	25814.710	38495519.70	224.4573	A	3.8
7	☐	50000.000	51390.414	76273508.31	446.7941	A	0.4
8	☐	250000.00	249597.26	364595510.1	2,169.862	A	2.7

$$y = 0.0087 * x + 0.0428$$

$$R = 1.0000$$

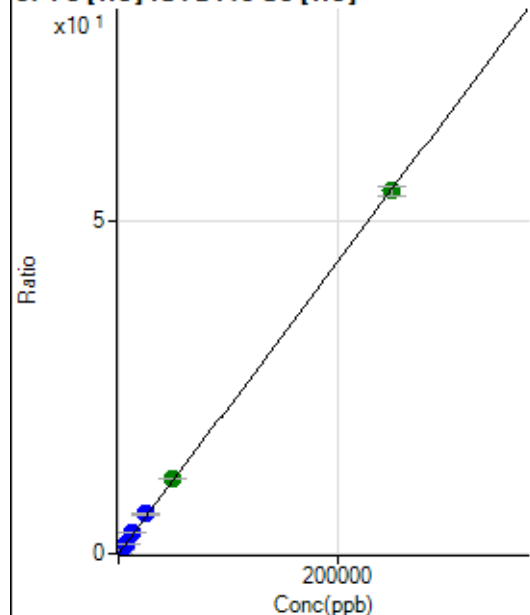
$$DL = 0.2229$$

$$BEC = 4.921$$

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	642.24	0.0036	P	4.0
2	☐	50.000	59.359	3020.33	0.0165	P	2.6
3	☐	2500.000	2760.100	110009.90	0.6061	P	1.2
4	☐	6250.000	6971.600	271129.35	1.5256	P	0.6
5	☐	12500.000	13982.146	526419.83	3.0561	P	0.3
6	☐	25000.000	27400.814	1026654.19	5.9856	P	3.4
7	☐	50000.000	51370.502	1915124.57	11.2186	A	0.8
8	☐	250000.00	249391.06	9148642.57	54.4496	A	3.0

$$y = 2.1832\text{E-}004 * x + 0.0036$$

$$R = 0.9999$$

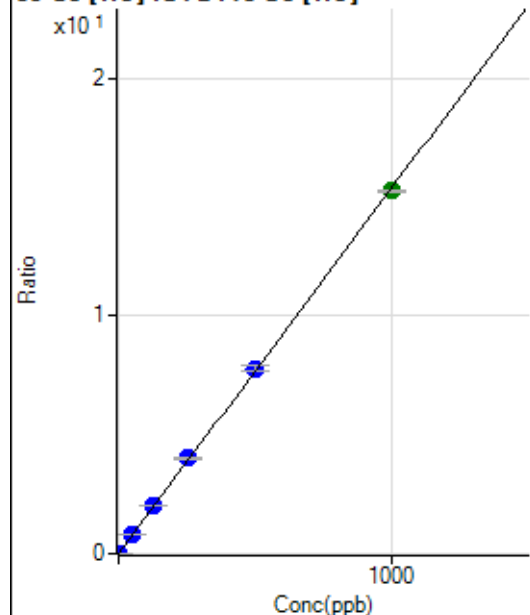
$$DL = 1.952$$

$$BEC = 16.3$$

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	107.78	0.0006	P	21.8
2	☐	1.000	1.122	3264.83	0.0179	P	2.7
3	☐	50.000	51.897	144933.98	0.7985	P	0.7
4	☐	125.000	130.512	356739.97	2.0073	P	0.4
5	☐	250.000	260.484	689982.32	4.0056	P	0.3
6	☐	500.000	507.382	1338212.55	7.8018	P	3.3
7	☐	1000.000	992.904	2606251.85	15.2669	A	0.6
8	☐			6956.12	0.0414	P	2.1

$$y = 0.0154 * x + 5.9709\text{E-}004$$

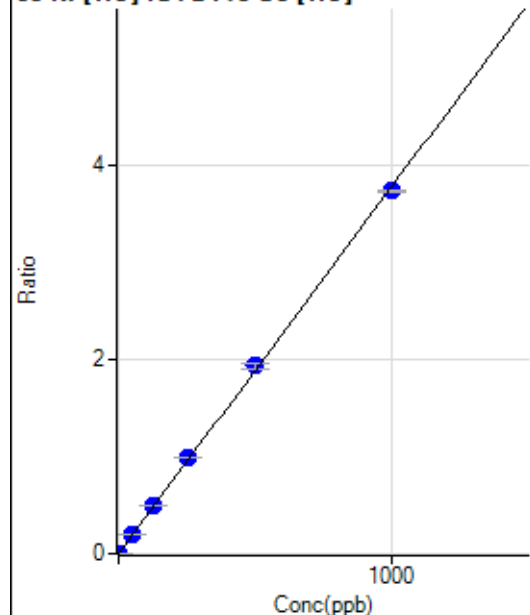
$$R = 0.9999$$

$$DL = 0.02539$$

$$BEC = 0.03883$$

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	81.11	0.0004	P	30.8
2	☐	1.000	1.019	785.58	0.0043	P	7.4
3	☐	50.000	52.488	36041.01	0.1986	P	1.4
4	☐	125.000	131.350	88198.25	0.4963	P	0.9
5	☐	250.000	264.558	172102.54	0.9991	P	0.1
6	☐	500.000	511.896	331509.37	1.9328	P	3.4
7	☐	1000.000	989.494	637711.71	3.7356	P	0.8
8	☐			3160.36	0.0188	P	2.4

$$y = 0.0038 * x + 4.4946E-004$$

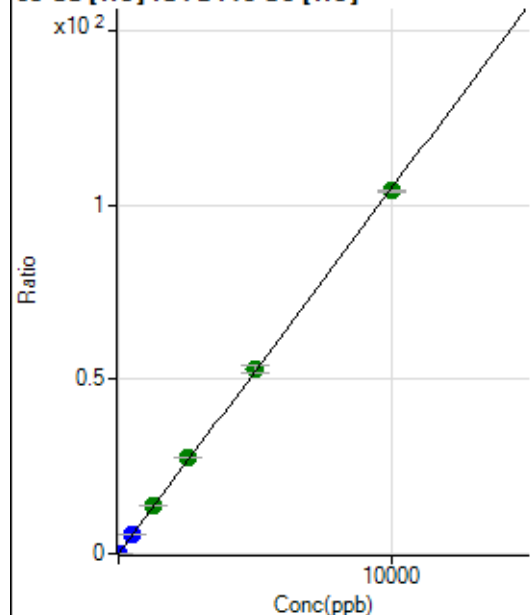
$$R = 0.9998$$

$$DL = 0.1101$$

$$BEC = 0.1191$$

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	462.23	0.0026	P	20.9
2	☐	2.000	2.085	4464.04	0.0244	P	0.9
3	☐	500.000	524.549	997994.67	5.4986	P	0.4
4	☐	1250.000	1318.072	2454902.18	13.8130	A	0.6
5	☐	2500.000	2629.469	4746146.49	27.5534	A	0.4
6	☐	5000.000	5050.938	9077049.93	52.9249	A	3.7
7	☐	10000.000	9932.427	17766393.07	104.0718	A	0.4
8	☐			3824.97	0.0228	P	7.4

$$y = 0.0105 * x + 0.0026$$

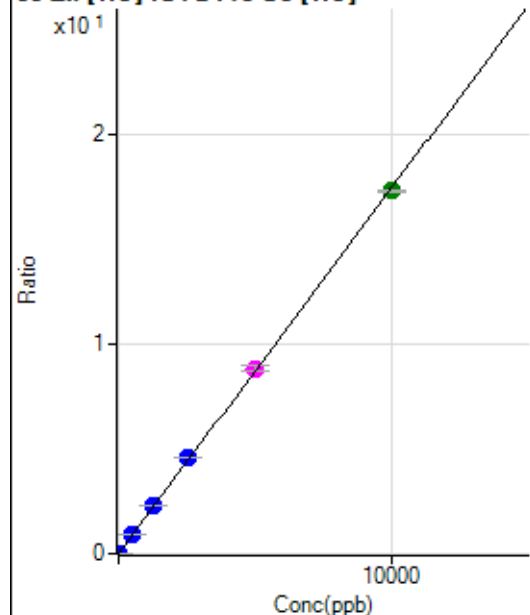
$$R = 0.9999$$

$$DL = 0.153$$

$$BEC = 0.2445$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.11	0.0003	P	25.8
2	☐	5.000	5.412	1791.24	0.0098	P	4.4
3	☐	500.000	519.233	164753.99	0.9077	P	0.4
4	☐	1250.000	1303.970	405031.21	2.2791	P	1.1
5	☐	2500.000	2627.075	790830.86	4.5912	P	0.9
6	☐	5000.000	5073.625	1520834.81	8.8666	M	3.4
7	☐	10000.000	9923.710	2960487.18	17.3423	A	0.4
8	☐			1802.35	0.0107	P	4.3

$$y = 0.0017 * x + 3.3865E-004$$

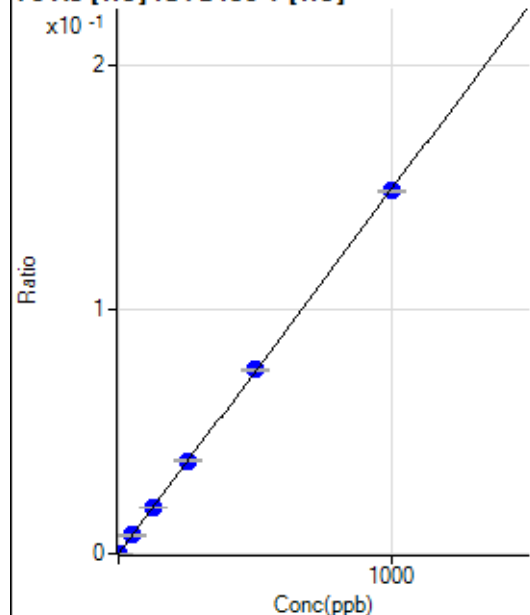
$$R = 0.9999$$

$$DL = 0.15$$

$$BEC = 0.1938$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	0.974	233.34	0.0001	P	6.7
3	☐	50.000	50.444	11759.18	0.0075	P	1.5
4	☐	125.000	127.750	29199.87	0.0190	P	0.9
5	☐	250.000	255.866	56767.92	0.0381	P	1.5
6	☐	500.000	504.860	111840.39	0.0752	P	0.9
7	☐	1000.000	995.738	218823.75	0.1484	P	0.8
8	☐			130.00	0.0001	P	24.4

$$y = 1.4902E-004 * x + 1.4195E-006$$

$$R = 1.0000$$

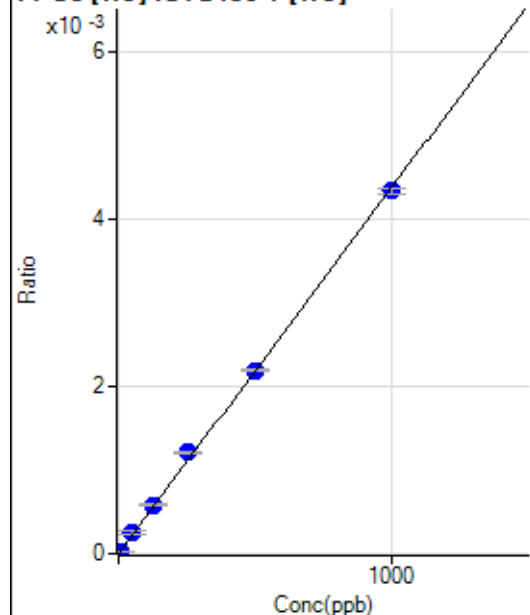
$$DL = 0.02475$$

$$BEC = 0.009525$$

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	6.852	47.78	0.0000	P	3.5
3	☐	50.000	56.140	384.45	0.0002	P	17.1
4	☐	125.000	133.527	897.82	0.0006	P	6.0
5	☐	250.000	276.445	1803.46	0.0012	P	1.6
6	☐	500.000	500.727	3261.51	0.0022	P	0.8
7	☐	1000.000	991.643	6406.99	0.0043	P	1.4
8	☐			1.11	0.0000	P	173.

$$y = 4.3811\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

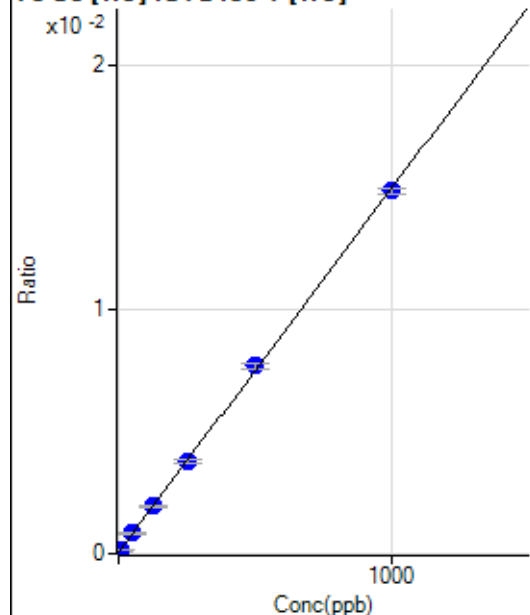
$$DL = 0$$

$$BEC = 0$$

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	91.11	0.0001	P	10.8
2	☐	5.000	5.364	220.00	0.0001	P	11.7
3	☐	50.000	51.787	1298.96	0.0008	P	2.0
4	☐	125.000	127.359	3001.44	0.0020	P	5.1
5	☐	250.000	251.780	5677.81	0.0038	P	3.6
6	☐	500.000	511.503	11425.60	0.0077	P	3.7
7	☐	1000.000	993.417	21934.06	0.0149	P	1.6
8	☐			101.11	0.0001	P	25.2

$$y = 1.4914\text{E-}005 * x + 5.8192\text{E-}005$$

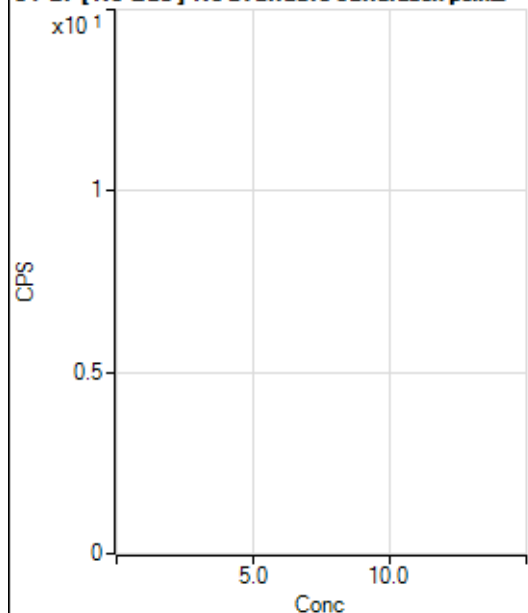
$$R = 0.9999$$

$$DL = 1.265$$

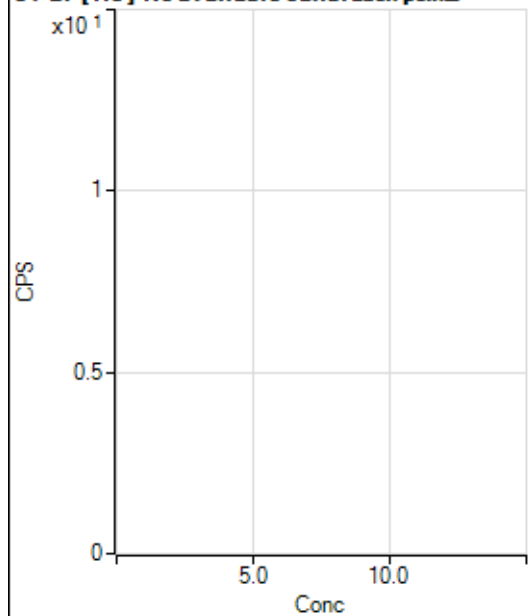
$$BEC = 3.902$$

Weight: <None>

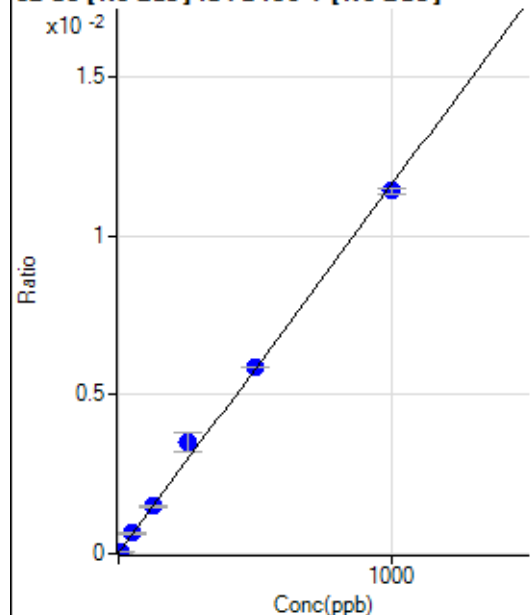
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7425.26		P	3.3
2	☐			7248.52		P	2.5
3	☐			7013.95		P	2.7
4	☐			7013.94		P	0.8
5	☐			6950.59		P	3.2
6	☐			6897.25		P	2.1
7	☐			6724.92		P	1.8
8	☐			6756.05		P	1.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	40.0
2	☐			45.55		P	29.6
3	☐			36.67		P	18.2
4	☐			38.89		P	19.8
5	☐			35.55		P	30.1
6	☐			50.00		P	24.0
7	☐			38.89		P	32.4
8	☐			47.78		P	33.0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.13	0.0000	P	9.5
2	☐	5.000	5.141	548.37	0.0001	P	3.0
3	☐	50.000	53.654	4089.74	0.0006	P	8.2
4	☐	125.000	126.954	9786.51	0.0015	P	1.6
5	☐	250.000	301.851	19337.88	0.0035	P	17.7
6	☐	500.000	506.003	37286.37	0.0059	P	0.4
7	☐	1000.000	983.608	72344.48	0.0114	P	1.3
8	☐			181.12	0.0000	P	9.4

$$y = 1.1595E-005 * x + 2.3314E-005$$

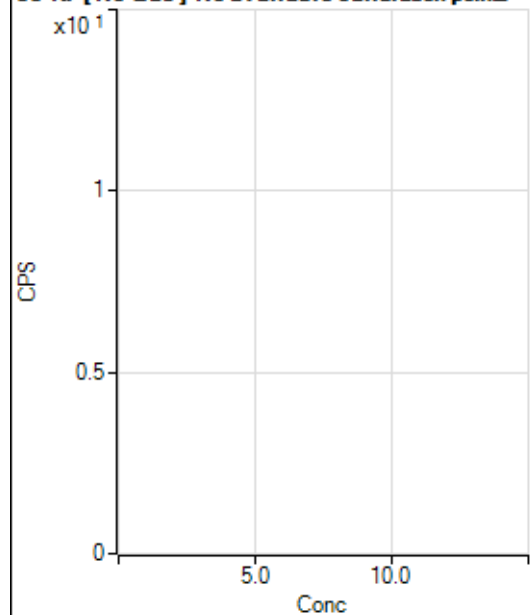
$$R = 0.9984$$

$$DL = 0.5718$$

$$BEC = 2.011$$

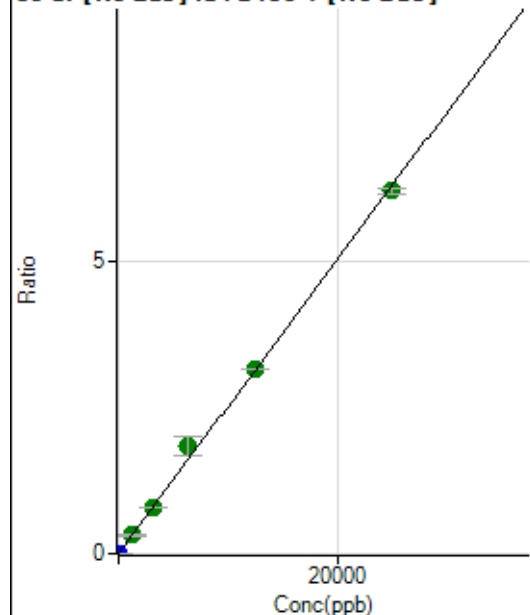
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			85.55		P	26.5
2	☐			83.33		P	12.0
3	☐			91.11		P	12.8
4	☐			82.22		P	30.4
5	☐			82.22		P	15.4
6	☐			88.89		P	14.2
7	☐			90.00		P	14.8
8	☐			107.78		P	18.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0000	P	15.4
2	☐	1.000	1.090	1939.04	0.0003	P	2.1
3	☐	1250.000	1295.434	2057305.30	0.3249	A	9.4
4	☐	3125.000	3114.716	5112505.45	0.7812	A	0.6
5	☐	6250.000	7383.496	10161942.56	1.8518	A	17.8
6	☐	12500.000	12545.147	19915391.23	3.1463	A	0.3
7	☐	25000.000	24693.066	39200901.36	6.1930	A	1.7
8	☐			5662.25	0.0009	P	5.8

$$y = 2.5080\text{E-}004 * x + 1.9844\text{E-}005$$

$$R = 0.9988$$

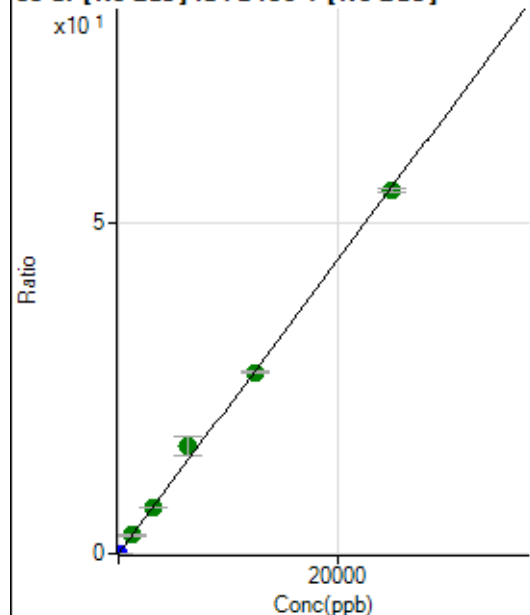
$$DL = 0.03655$$

$$BEC = 0.07912$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.55	0.0000	P	10.0
2	☐	1.000	1.082	15909.82	0.0024	P	1.8
3	☐	1250.000	1299.124	18171977.23	2.8701	A	9.4
4	☐	3125.000	3123.159	45155839.33	6.8998	A	0.7
5	☐	6250.000	7352.594	89040258.68	16.2437	A	18.8
6	☐	12500.000	12396.962	173360308.5	27.3879	A	0.6
7	☐	25000.000	24773.645	346463794.8	54.7309	A	0.9
8	☐			49461.81	0.0083	P	4.6

$$y = 0.0022 * x + 1.6048\text{E-}005$$

$$R = 0.9989$$

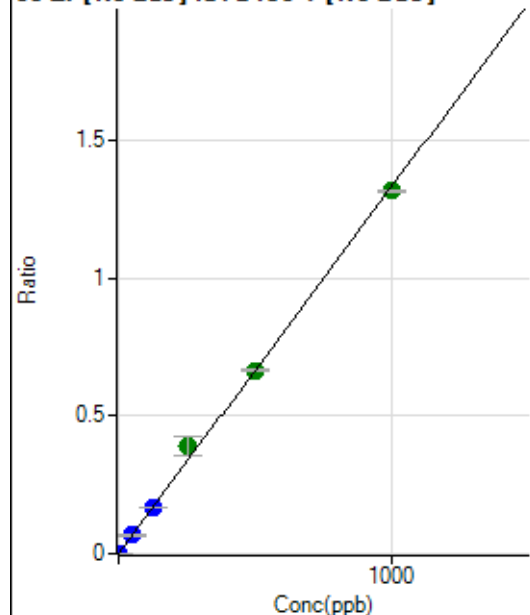
$$DL = 0.002189$$

$$BEC = 0.007264$$

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	225.56	0.0000	P	1.9
2	☐	1.000	1.030	9310.80	0.0014	P	2.2
3	☐	50.000	51.853	438285.47	0.0692	P	8.1
4	☐	125.000	125.577	1096052.72	0.1675	P	0.5
5	☐	250.000	293.507	2144514.20	0.3914	A	19.2
6	☐	500.000	499.972	4219971.33	0.6667	A	0.7
7	☐	1000.000	988.972	8348150.50	1.3187	A	0.5
8	☐			4292.89	0.0007	P	2.5

$$y = 0.0013 * x + 3.4339E-005$$

$$R = 0.9989$$

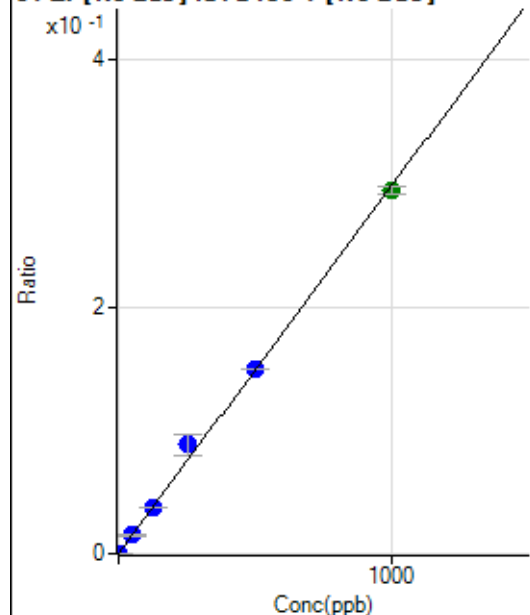
$$DL = 0.001466$$

$$BEC = 0.02575$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	48.89	0.0000	P	23.0
2	☐	1.000	0.972	1963.49	0.0003	P	9.2
3	☐	50.000	51.720	97553.43	0.0154	P	8.5
4	☐	125.000	125.367	244234.10	0.0373	P	0.8
5	☐	250.000	296.132	483330.11	0.0881	P	18.5
6	☐	500.000	503.102	947818.18	0.1497	P	0.4
7	☐	1000.000	986.784	1859011.10	0.2937	A	1.9
8	☐			1031.16	0.0002	P	6.8

$$y = 2.9762E-004 * x + 7.5078E-006$$

$$R = 0.9987$$

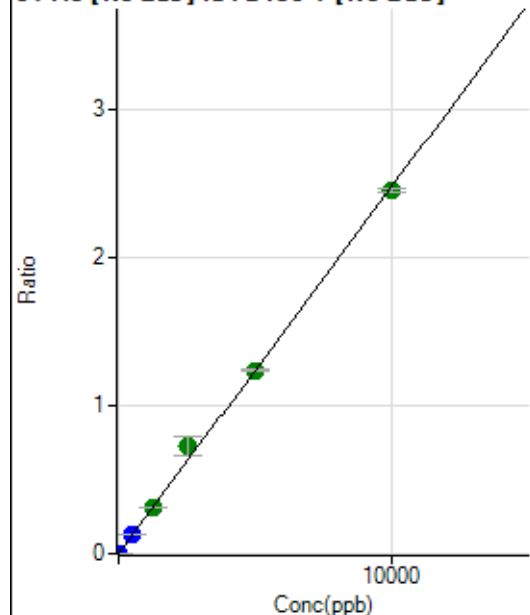
$$DL = 0.01738$$

$$BEC = 0.02523$$

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	87.78	0.0000	P	14.6
2	☐	5.000	6.584	10855.23	0.0016	P	0.8
3	☐	500.000	522.150	817857.44	0.1292	P	9.1
4	☐	1250.000	1248.193	2020454.08	0.3087	A	0.5
5	☐	2500.000	2927.215	3970317.79	0.7240	A	18.4
6	☐	5000.000	4998.907	7825937.73	1.2364	A	0.6
7	☐	10000.000	9892.861	15488466.58	2.4468	A	1.2
8	☐			4551.86	0.0008	P	1.4

$$y = 2.4733\text{E-}004 * x + 1.3429\text{E-}005$$

$$R = 0.9989$$

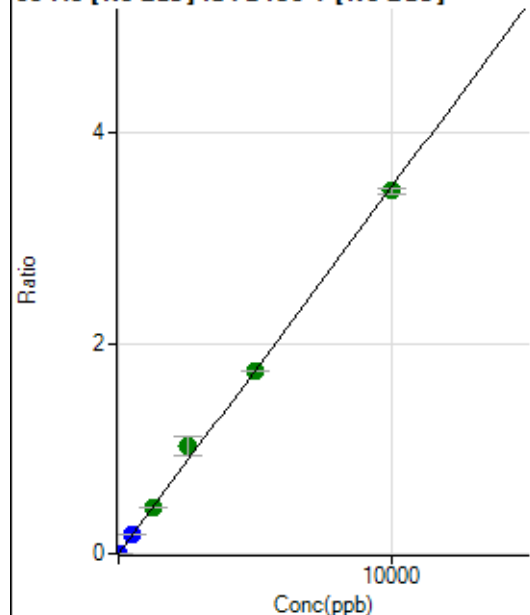
$$DL = 0.02382$$

$$BEC = 0.0543$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.55	0.0000	P	38.3
2	☐	5.000	5.784	13382.89	0.0020	P	1.3
3	☐	500.000	522.318	1154551.20	0.1823	P	8.7
4	☐	1250.000	1245.608	2844921.55	0.4347	A	0.9
5	☐	2500.000	2940.135	5628047.28	1.0261	A	18.2
6	☐	5000.000	4987.923	11018253.87	1.7407	A	0.7
7	☐	10000.000	9895.437	21860621.34	3.4534	A	1.4
8	☐			5014.24	0.0008	P	3.6

$$y = 3.4899\text{E-}004 * x + 5.3302\text{E-}006$$

$$R = 0.9989$$

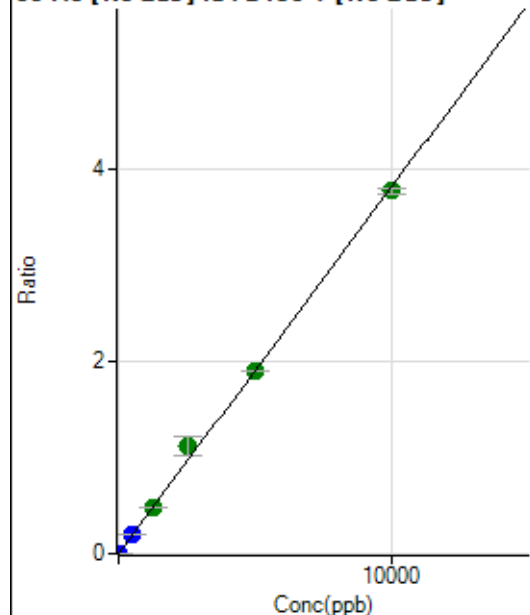
$$DL = 0.01757$$

$$BEC = 0.01527$$

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	92.22	0.0000	P	32.2
2	☐	5.000	5.763	14655.23	0.0022	P	1.7
3	☐	500.000	521.200	1261653.50	0.1992	P	8.7
4	☐	1250.000	1257.331	3144730.58	0.4805	A	1.2
5	☐	2500.000	2926.045	6130166.51	1.1182	A	18.7
6	☐	5000.000	4987.634	12064882.32	1.9061	A	0.3
7	☐	10000.000	9897.695	23943657.42	3.7825	A	1.3
8	☐			9136.25	0.0015	P	3.4

$$y = 3.8215\text{E-}004 * x + 1.4201\text{E-}005$$

$$R = 0.9989$$

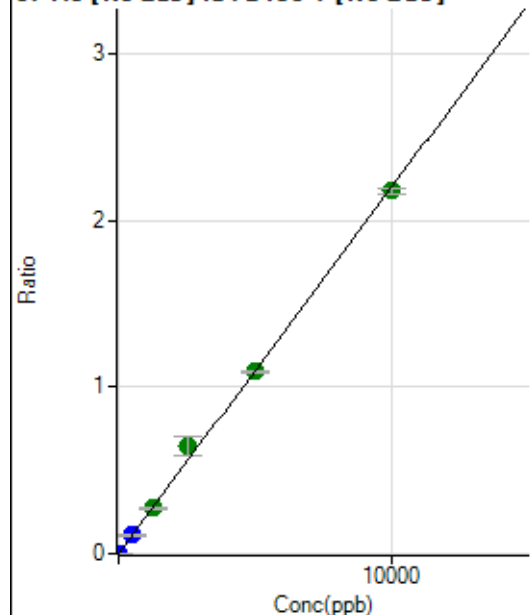
$$DL = 0.03588$$

$$BEC = 0.03716$$

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	27.78	0.0000	P	85.9
2	☐	5.000	5.760	8396.93	0.0013	P	2.1
3	☐	500.000	521.157	725139.68	0.1145	P	9.2
4	☐	1250.000	1237.620	1779859.02	0.2720	A	0.7
5	☐	2500.000	2938.297	3540516.93	0.6457	A	18.5
6	☐	5000.000	4971.447	6914900.66	1.0924	A	0.8
7	☐	10000.000	9905.191	13777726.04	2.1766	A	1.5
8	☐			2948.10	0.0005	P	3.0

$$y = 2.1974\text{E-}004 * x + 4.1573\text{E-}006$$

$$R = 0.9989$$

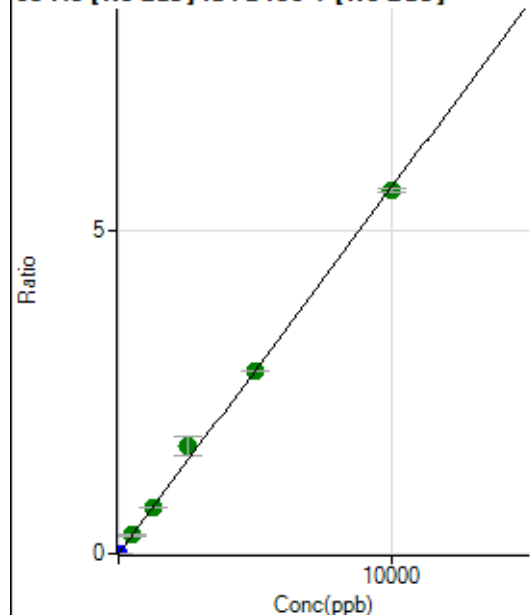
$$DL = 0.04877$$

$$BEC = 0.01892$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.67	0.0000	P	54.0
2	☐	5.000	5.806	21857.56	0.0033	P	2.8
3	☐	500.000	518.125	1864179.66	0.2945	A	9.7
4	☐	1250.000	1241.606	4618288.05	0.7057	A	1.3
5	☐	2500.000	2923.836	9111902.36	1.6617	A	18.6
6	☐	5000.000	4980.621	17917458.48	2.8307	A	0.6
7	☐	10000.000	9903.873	35631388.08	5.6288	A	1.0
8	☐			7160.71	0.0012	P	4.1

$$y = 5.6834\text{E-}004 * x + 5.6964\text{E-}006$$

$$R = 0.9989$$

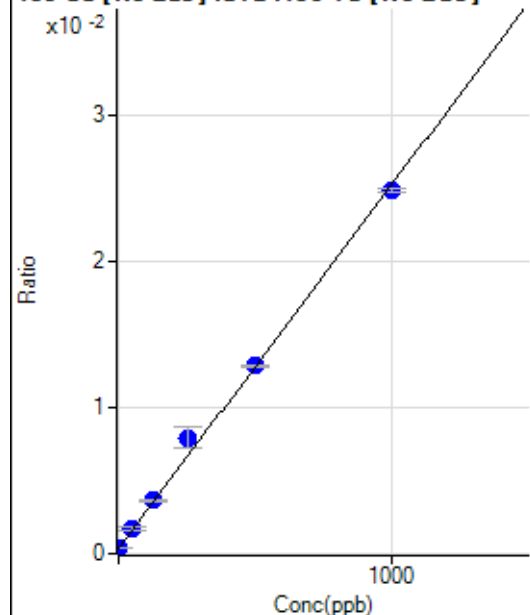
$$DL = 0.01624$$

$$BEC = 0.01002$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1970.16	0.0004	P	7.3
2	☐	1.000	0.505	2075.73	0.0004	P	3.6
3	☐	50.000	54.794	9155.17	0.0017	P	9.2
4	☐	125.000	131.451	20420.00	0.0036	P	1.1
5	☐	250.000	303.863	37734.45	0.0079	P	18.8
6	☐	500.000	503.664	71485.69	0.0129	P	0.9
7	☐	1000.000	983.657	138643.93	0.0249	P	1.2
8	☐			1947.92	0.0004	P	2.3

$$y = 2.4929\text{E-}005 * x + 3.5697\text{E-}004$$

$$R = 0.9983$$

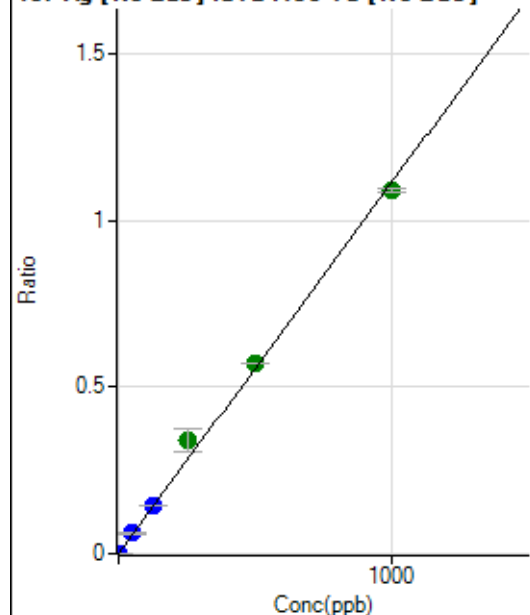
$$DL = 3.153$$

$$BEC = 14.32$$

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	55.55	0.0000	P	41.5
2	☐	1.000	1.023	6458.16	0.0012	P	4.0
3	☐	50.000	56.259	333136.06	0.0627	P	9.0
4	☐	125.000	131.655	824343.21	0.1467	P	0.9
5	☐	250.000	305.622	1619676.02	0.3405	A	19.1
6	☐	500.000	513.010	3164475.23	0.5716	A	0.1
7	☐	1000.000	978.445	6075410.19	1.0902	A	1.1
8	☐			797.81	0.0002	P	11.3

$$y = 0.0011 * x + 1.0225E-005$$

$$R = 0.9981$$

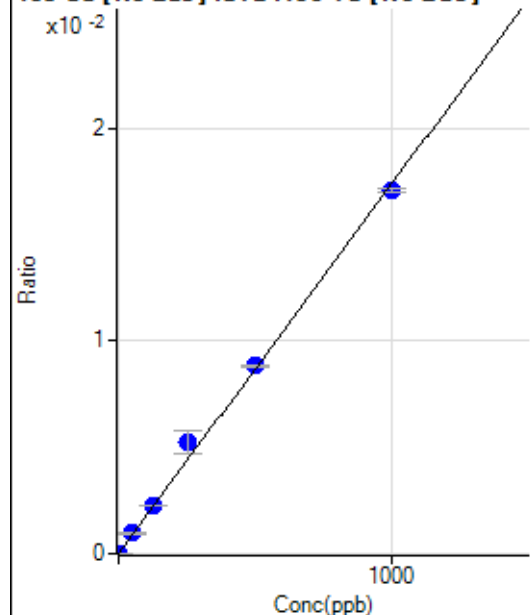
$$DL = 0.01142$$

$$BEC = 0.009177$$

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	8.89	0.0000	P	26.2
2	☐	1.000	1.068	113.33	0.0000	P	14.0
3	☐	50.000	56.007	5170.96	0.0010	P	12.3
4	☐	125.000	131.212	12824.64	0.0023	P	1.9
5	☐	250.000	300.842	24840.19	0.0052	P	20.2
6	☐	500.000	508.622	48946.63	0.0088	P	1.4
7	☐	1000.000	981.902	95116.83	0.0171	P	1.0
8	☐			61.11	0.0000	P	28.7

$$y = 1.7380E-005 * x + 1.6252E-006$$

$$R = 0.9985$$

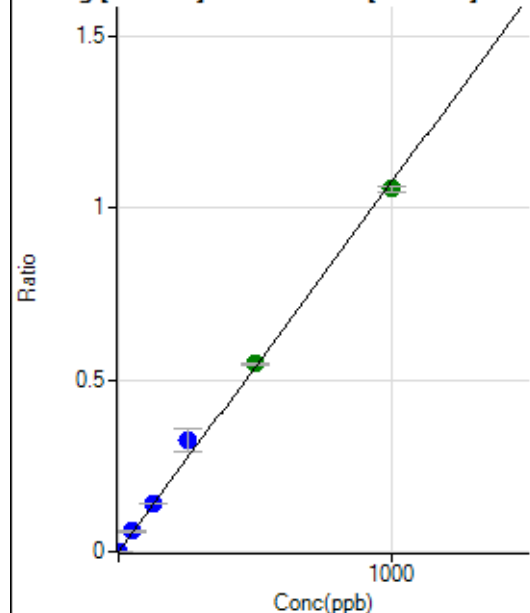
$$DL = 0.07352$$

$$BEC = 0.09351$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.67	0.0000	P	6.6
2	☐	1.000	1.039	6293.65	0.0011	P	2.6
3	☐	50.000	55.521	316737.78	0.0596	P	9.1
4	☐	125.000	130.431	786905.72	0.1400	P	0.8
5	☐	250.000	301.106	1536225.10	0.3233	P	19.7
6	☐	500.000	508.447	3021904.99	0.5459	A	1.2
7	☐	1000.000	982.045	5875549.64	1.0543	A	1.3
8	☐			720.02	0.0001	P	17.6

$$y = 0.0011 * x + 4.8144E-006$$

$$R = 0.9984$$

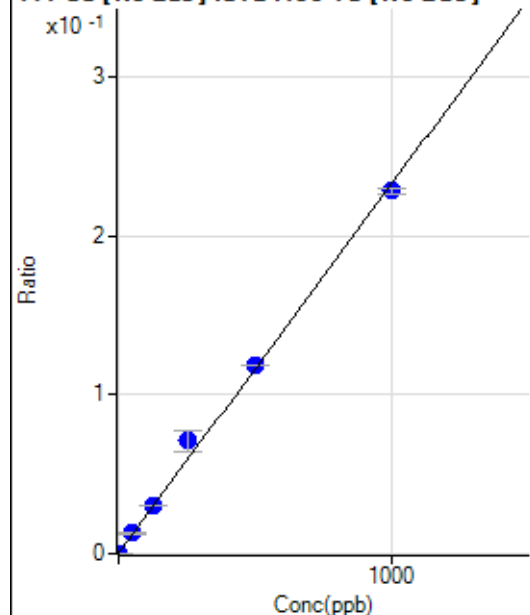
$$DL = 0.0008883$$

$$BEC = 0.004484$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1377.33	0.0002	P	7.5
2	☐	1.000	1.037	2755.98	0.0005	P	2.0
3	☐	50.000	55.400	69728.20	0.0131	P	9.3
4	☐	125.000	131.252	172806.91	0.0308	P	0.7
5	☐	250.000	305.326	338551.76	0.0712	P	19.2
6	☐	500.000	507.142	653866.38	0.1181	P	0.0
7	☐	1000.000	981.546	1272553.94	0.2284	P	1.6
8	☐			1560.77	0.0003	P	1.7

$$y = 2.3239E-004 * x + 2.4957E-004$$

$$R = 0.9982$$

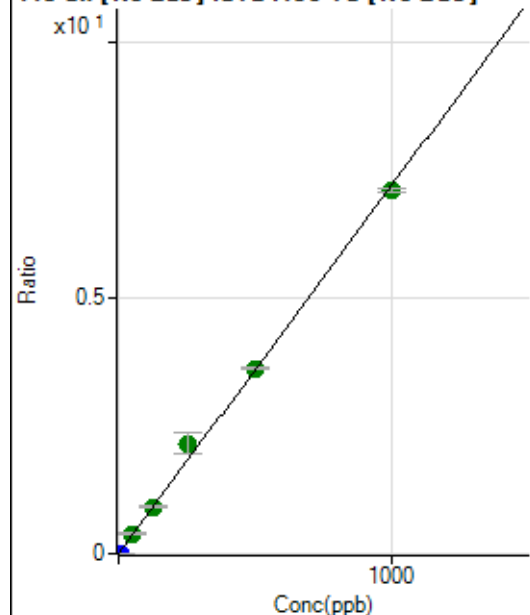
$$DL = 0.2407$$

$$BEC = 1.074$$

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	852.26	0.0002	P	5.0
2	☐	5.000	0.571	23915.47	0.0043	P	1.5
3	☐	50.000	54.699	2087922.16	0.3932	A	10.1
4	☐	125.000	127.759	5159350.72	0.9181	A	0.7
5	☐	250.000	298.272	10190485.82	2.1433	A	19.3
6	☐	500.000	503.206	20017829.01	3.6158	A	0.7
7	☐	1000.000	985.771	39474053.58	7.0831	A	1.2
8	☐			8046.76	0.0015	P	3.4

$$y = 0.0072 * x + 1.5441E-004$$

$$R = 0.9986$$

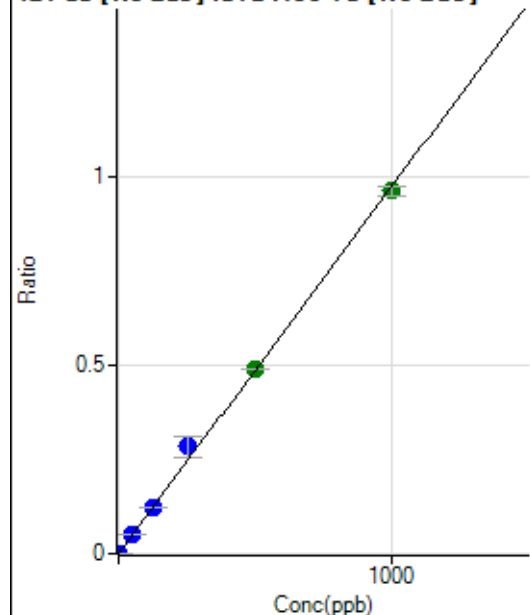
$$DL = 0.003196$$

$$BEC = 0.02149$$

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	48.89	0.0000	P	37.4
2	☐	2.000	2.098	11500.25	0.0020	P	2.5
3	☐	50.000	52.609	271660.16	0.0511	P	9.2
4	☐	125.000	124.552	680137.98	0.1210	P	0.9
5	☐	250.000	291.172	1344801.98	0.2829	P	19.5
6	☐	500.000	501.524	2698062.77	0.4873	A	0.2
7	☐	1000.000	988.870	5354556.62	0.9609	A	2.4
8	☐			3131.49	0.0006	P	2.2

$$y = 9.7168E-004 * x + 8.7365E-006$$

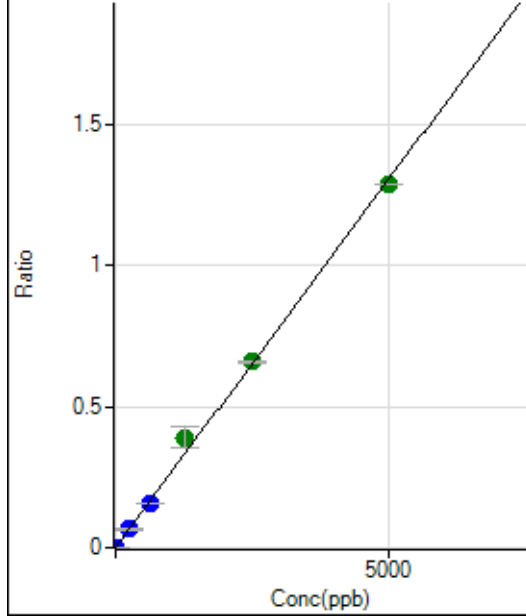
$$R = 0.9990$$

$$DL = 0.01008$$

$$BEC = 0.008991$$

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	115.56	0.0000	P	2.0
2	☐	10.000	10.140	14959.05	0.0027	P	2.0
3	☐	250.000	257.796	357075.21	0.0672	P	9.4
4	☐	625.000	609.891	893365.58	0.1590	P	0.6
5	☐	1250.000	1499.204	1855975.72	0.3908	A	20.2
6	☐	2500.000	2522.729	3640171.89	0.6575	A	1.1
7	☐	5000.000	4927.833	7158143.02	1.2844	A	0.2
8	☐			2769.18	0.0005	P	0.4

$$y = 2.6063\text{E-}004 * x + 2.0931\text{E-}005$$

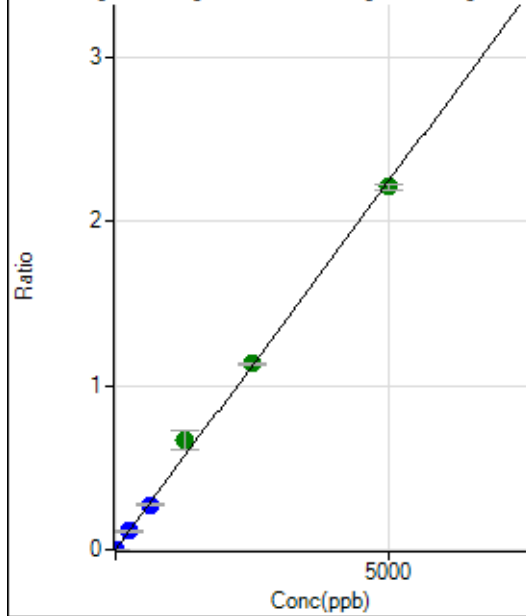
$$R = 0.9985$$

$$DL = 0.004771$$

$$BEC = 0.08031$$

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	180.00	0.0000	P	12.0
2	☐	10.000	10.204	25899.16	0.0046	P	0.7
3	☐	250.000	259.724	619107.04	0.1166	P	10.0
4	☐	625.000	612.787	1545405.60	0.2750	P	0.9
5	☐	1250.000	1493.062	3188114.57	0.6700	A	18.6
6	☐	2500.000	2525.474	6274087.13	1.1333	A	1.0
7	☐	5000.000	4927.537	12322486.07	2.2112	A	1.5
8	☐			4746.39	0.0009	P	1.9

$$y = 4.4873\text{E-}004 * x + 3.2483\text{E-}005$$

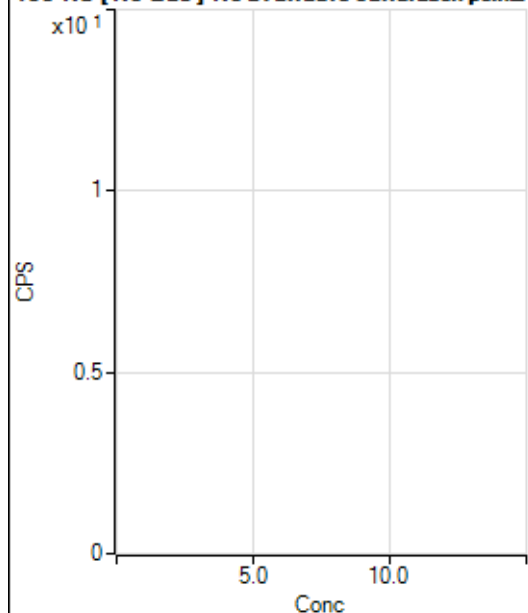
$$R = 0.9986$$

$$DL = 0.02607$$

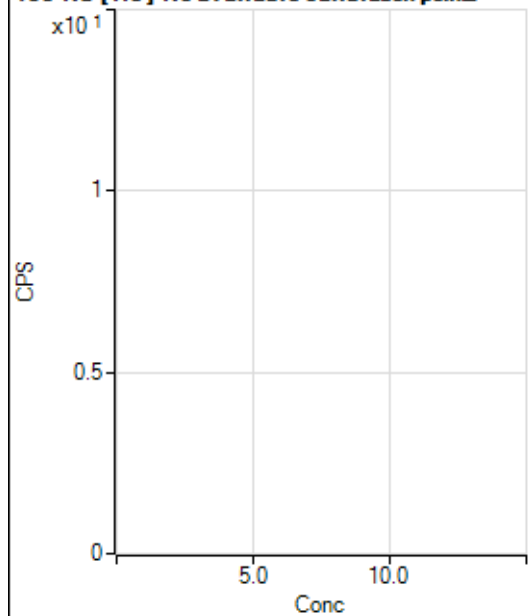
$$BEC = 0.07239$$

Weight: <None>

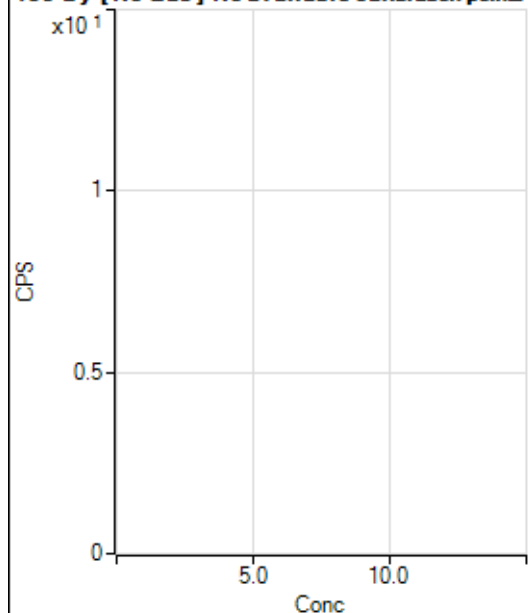
Min Conc: 0

150 Nd [No Gas] No available calibration points

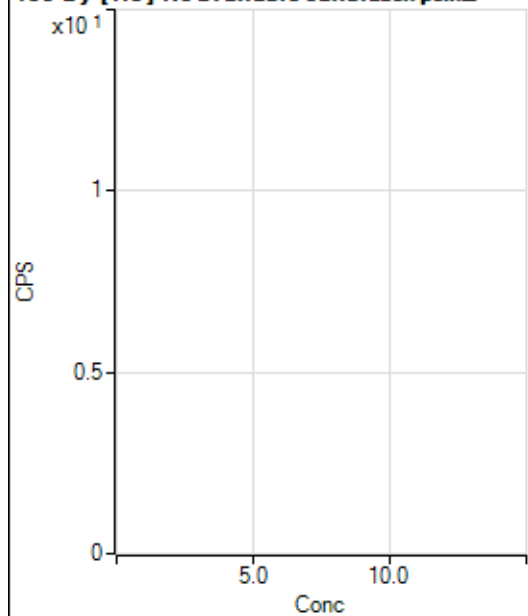
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			8.89		P	43.3
3	☐			38.89		P	19.8
4	☐			93.33		P	16.4
5	☐			177.78		P	16.8
6	☐			361.12		P	5.6
7	☐			644.47		P	8.8
8	☐			148.89		P	31.4

150 Nd [He] No available calibration points

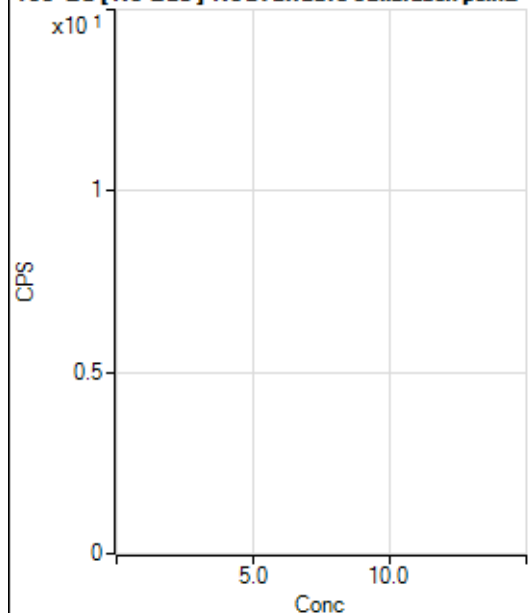
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			5.56		P	91.6
4	☐			16.67		P	20.0
5	☐			38.89		P	21.6
6	☐			65.55		P	10.6
7	☐			136.67		P	8.8
8	☐			57.78		P	20.3

156 Dy [No Gas] No available calibration points

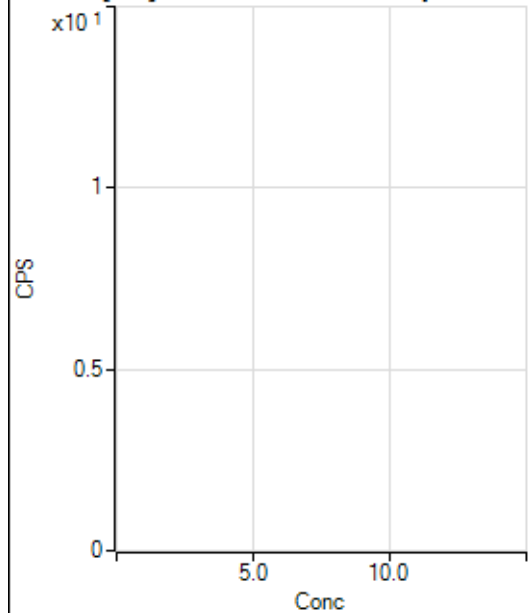
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1280.07		P	3.4
2	☐			1242.29		P	5.3
3	☐			1252.29		P	3.4
4	☐			1314.52		P	3.8
5	☐			1336.75		P	3.5
6	☐			1431.20		P	8.2
7	☐			1530.10		P	5.8
8	☐			1195.62		P	5.2

156 Dy [He] No available calibration points

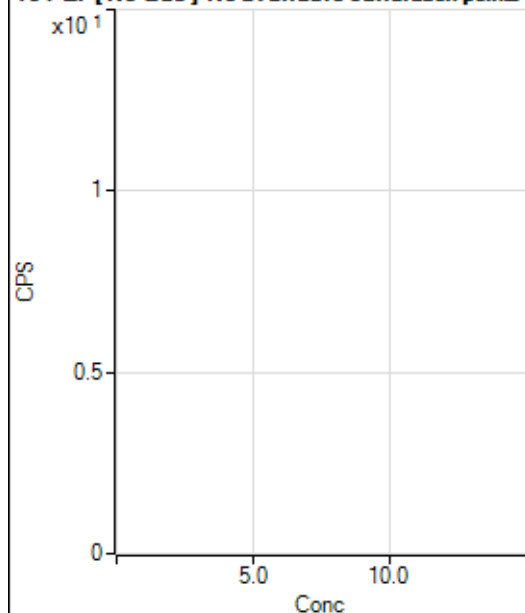
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			245.56		P	19.0
2	☐			242.23		P	6.9
3	☐			248.89		P	10.1
4	☐			291.12		P	5.9
5	☐			344.45		P	5.3
6	☐			415.57		P	11.7
7	☐			588.91		P	3.1
8	☐			303.34		P	6.9

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

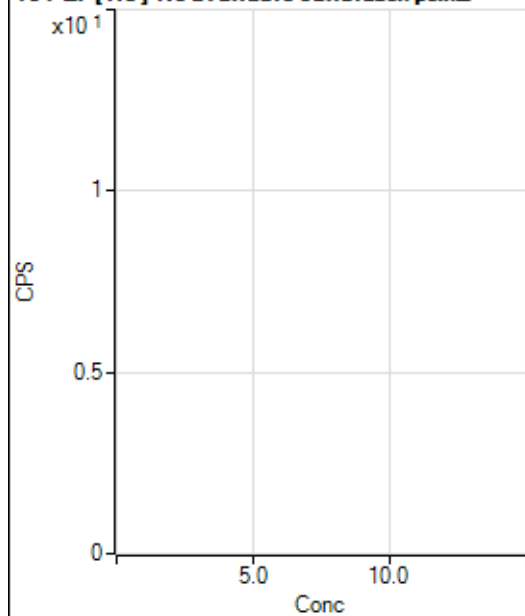
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	66.7
2	☐			20.00		P	16.7
3	☐			25.56		P	7.5
4	☐			27.78		P	18.3
5	☐			38.89		P	47.2
6	☐			66.67		P	17.3
7	☐			155.56		P	10.1
8	☐			227.78		P	13.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			166.67		P	8.0
2	☐			183.34		P	17.5
3	☐			168.89		P	8.2
4	☐			160.00		P	13.0
5	☐			173.34		P	6.7
6	☐			178.89		P	10.3
7	☐			176.67		P	21.4
8	☐			237.78		P	11.3

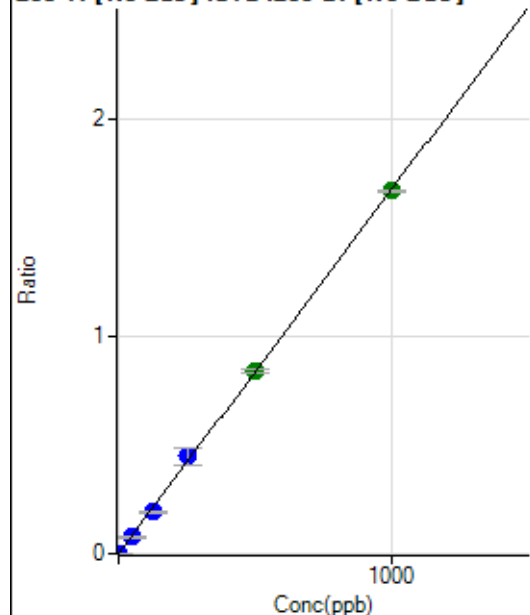
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26.67		P	50.0
2	☐			18.89		P	27.0
3	☐			27.78		P	18.3
4	☐			32.22		P	21.5
5	☐			50.00		P	24.0
6	☐			78.89		P	30.6
7	☐			125.56		P	35.1
8	☐			181.11		P	11.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			6.67		P	50.0
3	☐			16.67		P	20.0
4	☐			25.56		P	19.9
5	☐			33.33		P	43.6
6	☐			41.11		P	4.7
7	☐			70.00		P	17.2
8	☐			103.33		P	18.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114.45	0.0000	P	18.3
2	☐	1.000	0.940	5565.64	0.0016	P	2.3
3	☐	50.000	46.521	262309.09	0.0780	P	8.7
4	☐	125.000	113.660	662073.29	0.1906	P	0.6
5	☐	250.000	267.385	1318779.98	0.4483	P	19.1
6	☐	500.000	501.750	2831534.85	0.8413	A	1.1
7	☐	1000.000	996.370	5644872.27	1.6706	A	0.4
8	☐			802.25	0.0003	P	10.4

$$y = 0.0017 * x + 3.3200E-005$$

$$R = 0.9997$$

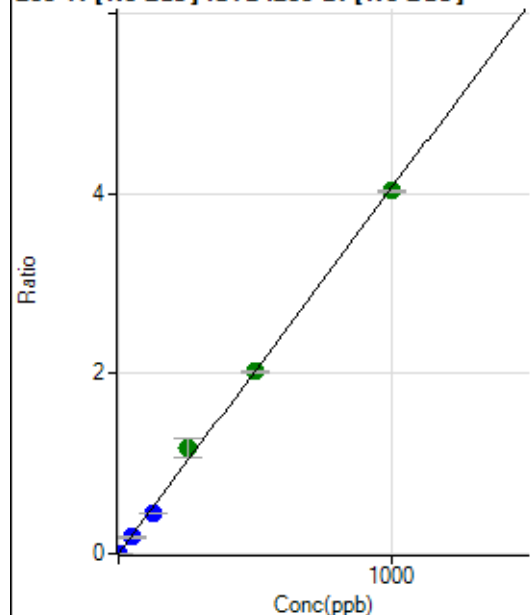
$$DL = 0.01086$$

$$BEC = 0.0198$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	234.45	0.0001	P	20.5
2	☐	1.000	0.900	12856.14	0.0037	P	0.6
3	☐	50.000	46.046	628016.62	0.1869	P	8.9
4	☐	125.000	112.592	1586769.59	0.4568	P	0.4
5	☐	250.000	289.664	3456191.86	1.1751	A	19.3
6	☐	500.000	498.960	6812631.08	2.0241	A	1.2
7	☐	1000.000	992.353	13602665.77	4.0256	A	0.4
8	☐			1923.49	0.0006	P	5.7

$$y = 0.0041 * x + 6.7966E-005$$

$$R = 0.9989$$

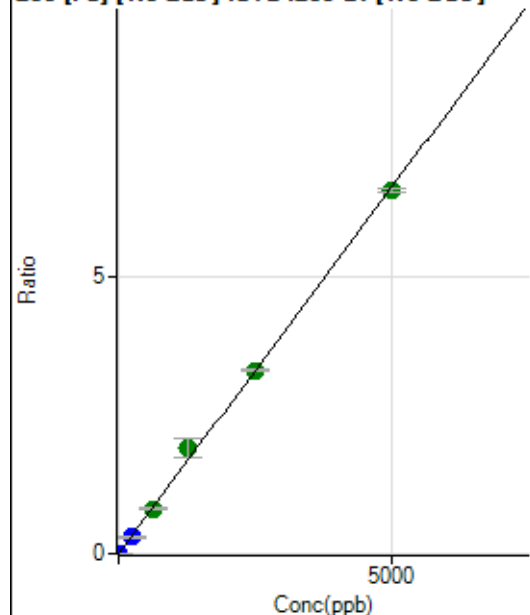
$$DL = 0.01029$$

$$BEC = 0.01675$$

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	225.56	0.0001	P	9.5
2	☐	1.000	0.951	4576.37	0.0013	P	4.1
3	☐	250.000	232.872	1035861.01	0.3082	P	8.9
4	☐	625.000	610.795	2807620.83	0.8082	A	2.5
5	☐	1250.000	1440.415	5607303.84	1.9060	A	19.0
6	☐	2500.000	2501.724	11141781.64	3.3103	A	0.8
7	☐	5000.000	4954.167	22150047.73	6.5552	A	1.1
8	☐			4876.48	0.0016	P	3.9

$$y = 0.0013 * x + 6.5002E-005$$

$$R = 0.9991$$

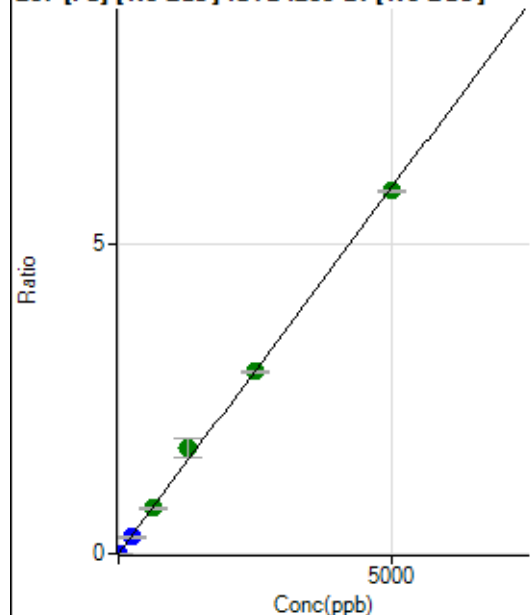
$$DL = 0.01406$$

$$BEC = 0.04913$$

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	195.56	0.0001	P	31.7
2	☐	1.000	0.928	3992.84	0.0012	P	3.6
3	☐	250.000	230.986	918602.57	0.2733	P	9.1
4	☐	625.000	618.408	2541597.36	0.7317	A	1.5
5	☐	1250.000	1448.720	5043409.34	1.7140	A	18.8
6	☐	2500.000	2489.375	9912793.19	2.9452	A	1.0
7	☐	5000.000	4957.407	19818268.45	5.8650	A	0.4
8	☐			4342.96	0.0015	P	2.4

$$y = 0.0012 * x + 5.6969E-005$$

$$R = 0.9990$$

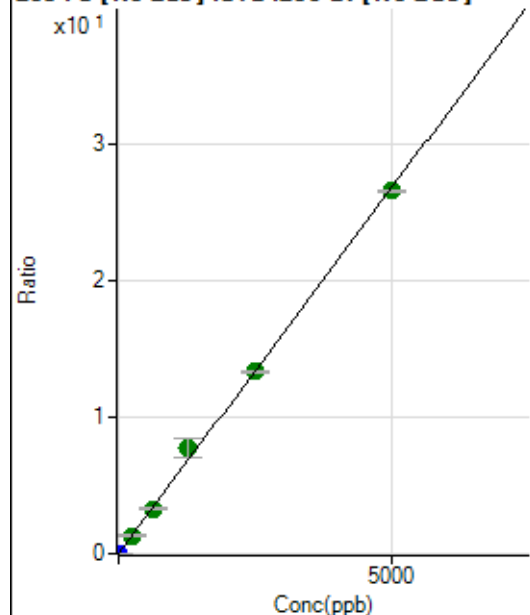
$$DL = 0.04585$$

$$BEC = 0.04815$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	853.35	0.0002	P	8.9
2	☐	1.000	0.936	18211.60	0.0053	P	0.7
3	☐	250.000	242.792	4377504.60	1.3024	A	8.8
4	☐	625.000	614.381	11446765.94	3.2952	A	1.8
5	☐	1250.000	1445.022	22799678.97	7.7500	A	19.0
6	☐	2500.000	2486.960	44893435.03	13.3381	A	0.7
7	☐	5000.000	4959.452	89877669.91	26.5983	A	0.3
8	☐			19765.84	0.0066	P	2.5

$$y = 0.0054 * x + 2.4675E-004$$

$$R = 0.9991$$

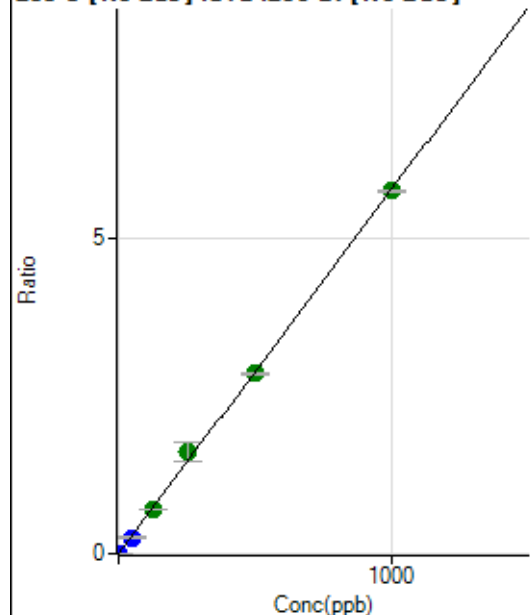
$$DL = 0.01225$$

$$BEC = 0.04601$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10.00	0.0000	P	52.7
2	☐	1.000	0.864	17210.06	0.0050	P	1.2
3	☐	50.000	43.340	839424.96	0.2497	P	8.4
4	☐	125.000	119.815	2397648.07	0.6902	A	1.0
5	☐	250.000	280.770	4759524.96	1.6174	A	18.8
6	☐	500.000	494.567	9589149.09	2.8491	A	1.3
7	☐	1000.000	996.005	19387863.05	5.7377	A	0.5
8	☐			690.03	0.0002	P	16.1

$$y = 0.0058 * x + 2.8396E-006$$

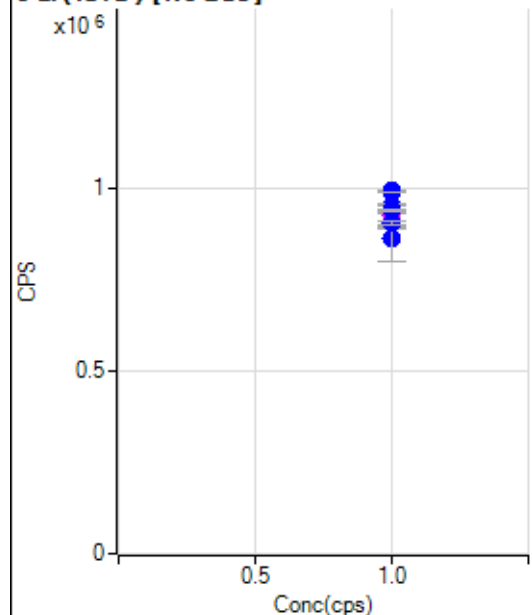
$$R = 0.9993$$

$$DL = 0.0007799$$

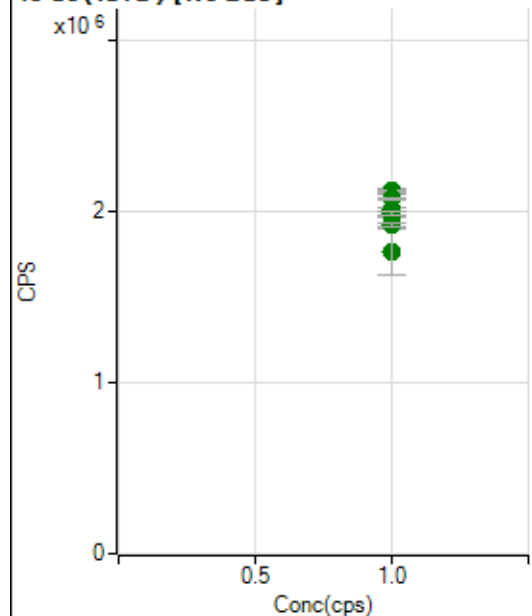
$$BEC = 0.0004929$$

Weight: <None>

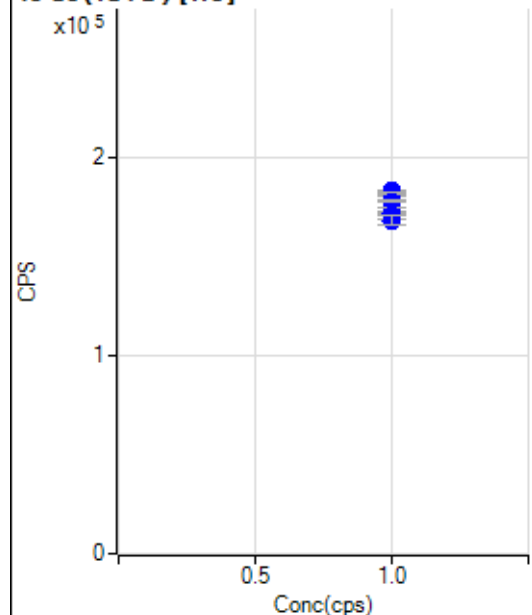
Min Conc: 0

6 Li (ISTD) [No Gas]

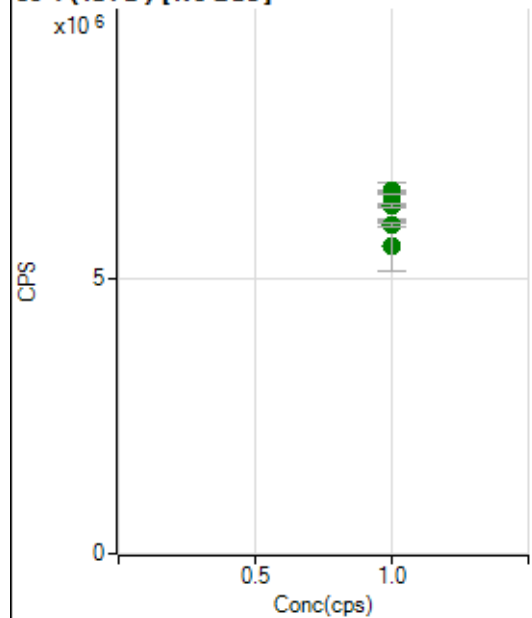
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		925235.64		M	7.2
2	☐	1.000		994182.12		P	0.8
3	☐	1.000		928234.98		M	7.2
4	☐	1.000		991421.96		P	0.2
5	☐	1.000		866817.58		P	14.6
6	☐	1.000		955474.31		P	0.4
7	☐	1.000		941563.35		P	0.7
8	☐	1.000		908193.82		P	1.2

45 Sc (ISTD) [No Gas]

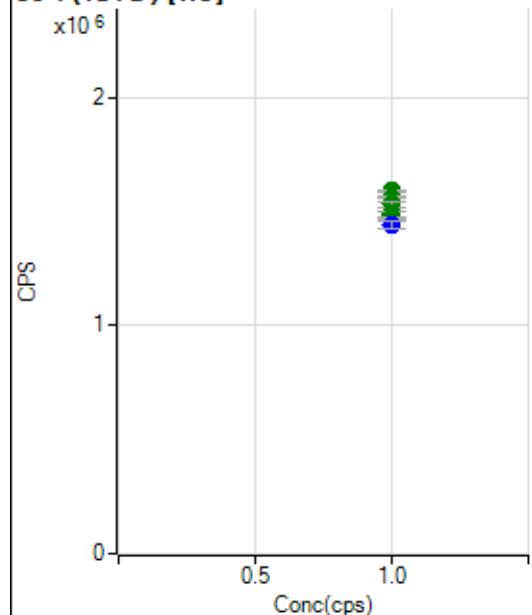
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2081723.62		A	5.6
2	☐	1.000		2122873.40		A	0.8
3	☐	1.000		2018936.22		A	8.3
4	☐	1.000		2077710.98		A	0.8
5	☐	1.000		1768592.98		A	15.4
6	☐	1.000		1971657.66		A	0.5
7	☐	1.000		1991650.96		A	0.7
8	☐	1.000		1924776.45		A	1.3

45 Sc (ISTD) [He]

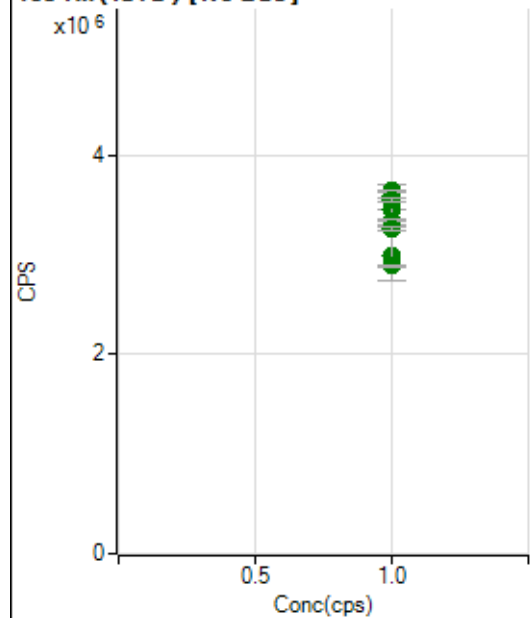
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		180467.12		P	0.2
2	☐	1.000		182857.39		P	0.2
3	☐	1.000		181501.73		P	0.7
4	☐	1.000		177727.19		P	0.7
5	☐	1.000		172255.00		P	0.6
6	☐	1.000		171644.97		P	3.2
7	☐	1.000		170711.28		P	0.4
8	☐	1.000		168099.41		P	2.4

89 Y (ISTD) [No Gas]

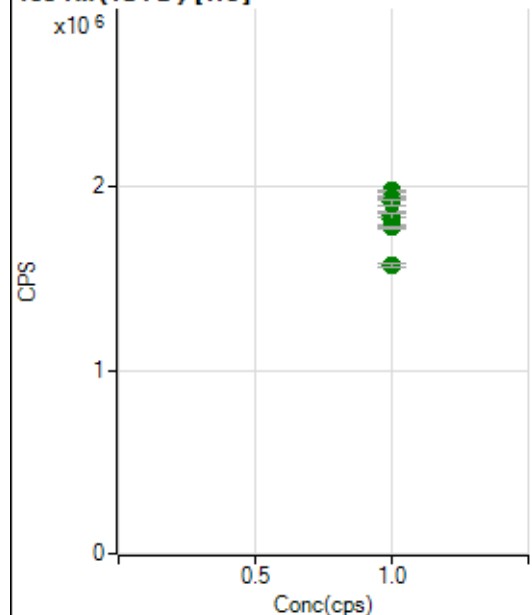
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6573107.61		A	6.1
2	☐	1.000		6611672.68		A	0.6
3	☐	1.000		6364795.18		A	8.4
4	☐	1.000		6544541.08		A	0.2
5	☐	1.000		5595960.20		A	16.3
6	☐	1.000		6329784.00		A	0.3
7	☐	1.000		6330713.17		A	1.1
8	☐	1.000		5981334.08		A	1.3

89 Y (ISTD) [He]

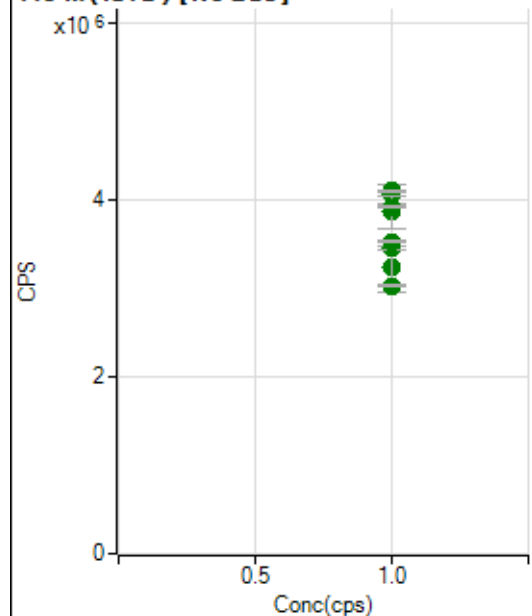
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1566053.57		A	0.8
2	☐	1.000		1591499.70		A	0.5
3	☐	1.000		1564105.08		A	0.8
4	☐	1.000		1533833.57		A	1.7
5	☐	1.000		1489015.41		A	2.0
6	☐	1.000		1486687.20		A	1.9
7	☐	1.000		1474703.10		A	0.6
8	☐	1.000		1444926.16		P	2.5

103 Rh (ISTD) [No Gas]

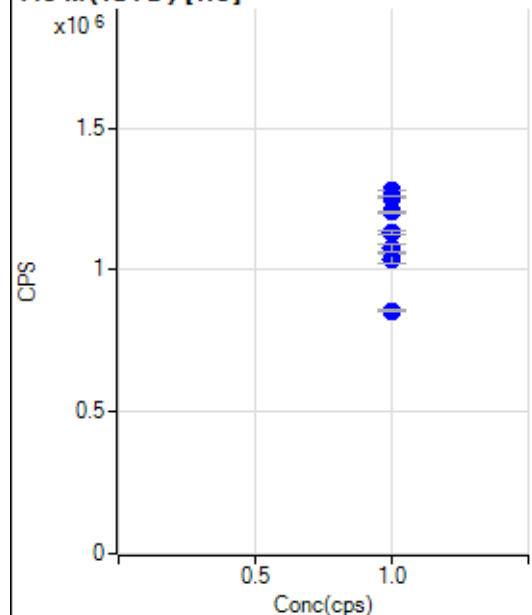
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3581402.31		A	6.8
2	☐	1.000		3638008.38		A	0.6
3	☐	1.000		3457979.05		A	9.2
4	☐	1.000		3553371.30		A	1.0
5	☐	1.000		2985194.00		A	16.7
6	☐	1.000		3341994.95		A	0.6
7	☐	1.000		3263399.19		A	1.3
8	☐	1.000		2887988.77		A	0.8

103 Rh (ISTD) [He]

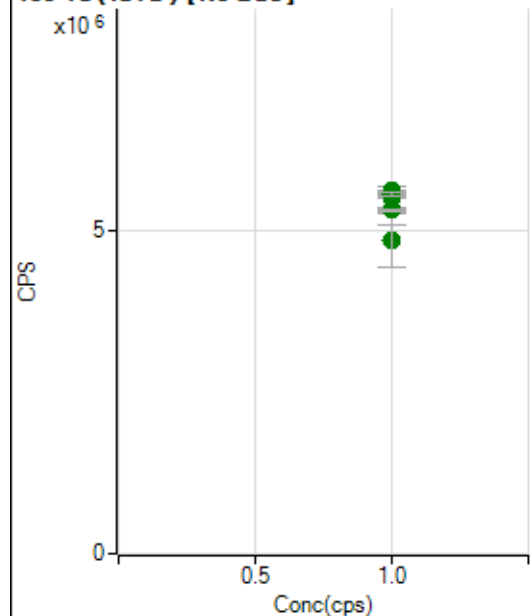
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1980346.48		A	0.3
2	☐	1.000		1977344.14		A	0.3
3	☐	1.000		1946803.79		A	0.7
4	☐	1.000		1916282.40		A	1.5
5	☐	1.000		1851780.44		A	1.8
6	☐	1.000		1828505.48		A	3.2
7	☐	1.000		1780873.10		A	0.8
8	☐	1.000		1574657.84		A	1.6

115 In (ISTD) [No Gas]

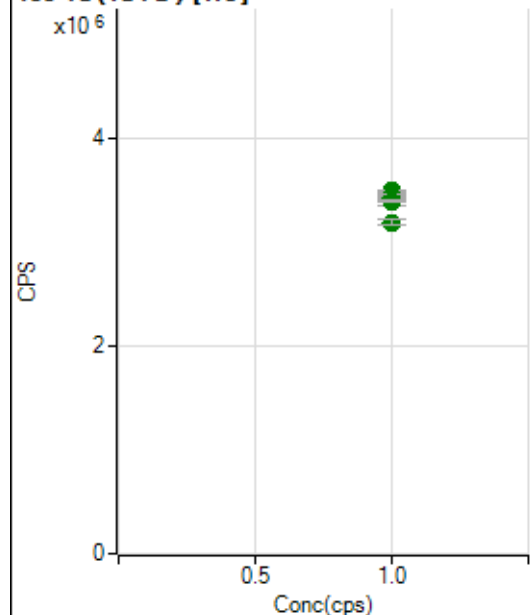
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4050385.89		A	5.4
2	☐	1.000		4095779.05		A	0.7
3	☐	1.000		3857005.47		A	9.9
4	☐	1.000		3911282.11		A	0.5
5	☐	1.000		3242390.27		A	18.0
6	☐	1.000		3458928.69		A	1.2
7	☐	1.000		3024236.15		A	0.4
8	☐	1.000		3526486.44		A	0.4

115 In (ISTD) [He]

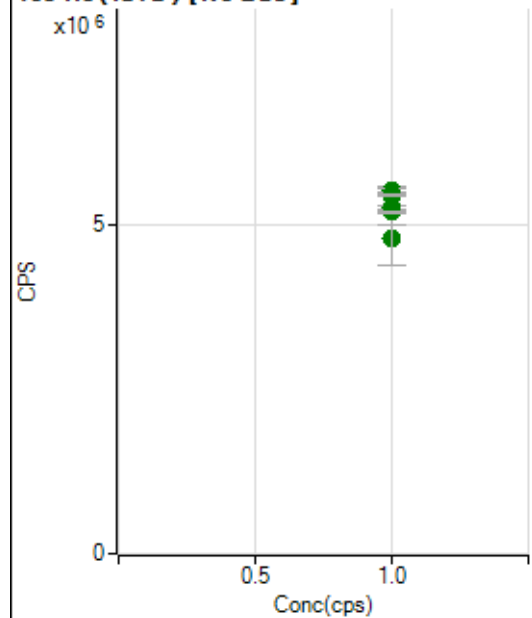
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1256315.07		P	0.4
2	☐	1.000		1277896.79		P	0.1
3	☐	1.000		1257966.86		P	0.2
4	☐	1.000		1202908.30		P	0.5
5	☐	1.000		1128082.72		P	1.2
6	☐	1.000		1038442.78		P	3.0
7	☐	1.000		854443.46		P	0.7
8	☐	1.000		1077792.91		P	2.4

159 Tb (ISTD) [No Gas]

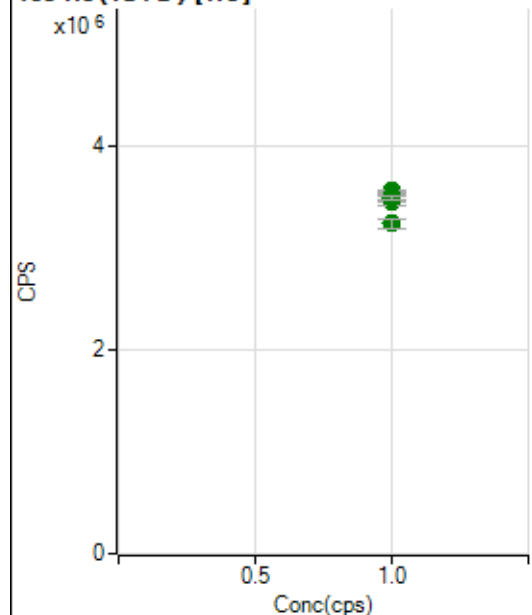
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5524518.70		A	6.0
2	☐	1.000		5616206.86		A	0.7
3	☐	1.000		5343170.51		A	9.1
4	☐	1.000		5619455.33		A	0.2
5	☐	1.000		4861290.17		A	17.1
6	☐	1.000		5536323.32		A	0.8
7	☐	1.000		5573307.77		A	0.9
8	☐	1.000		5317865.44		A	1.1

159 Tb (ISTD) [He]

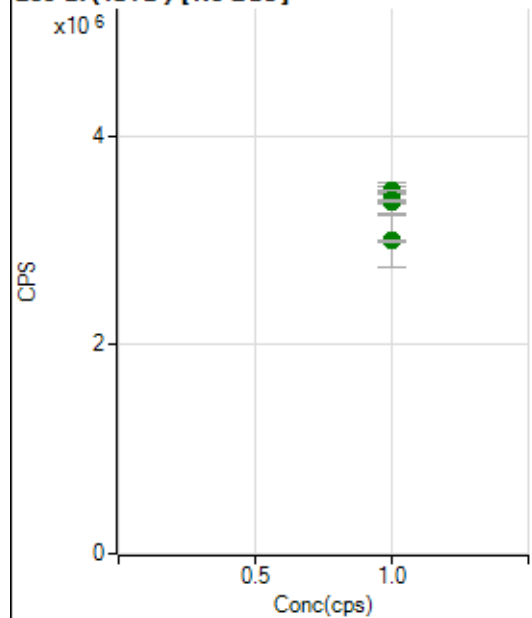
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3409546.37		A	1.5
2	☐	1.000		3490850.78		A	0.8
3	☐	1.000		3436798.07		A	0.7
4	☐	1.000		3415323.46		A	1.1
5	☐	1.000		3377750.64		A	1.6
6	☐	1.000		3395726.51		A	3.3
7	☐	1.000		3390162.31		A	0.5
8	☐	1.000		3186012.45		A	1.7

165 Ho (ISTD) [No Gas]

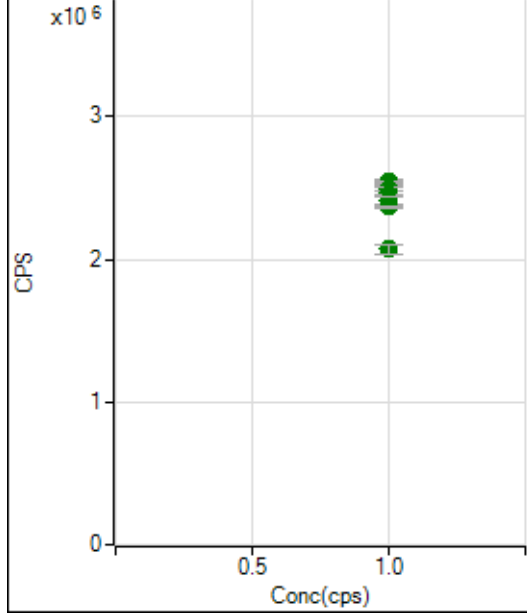
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5432116.06		A	5.7
2	☐	1.000		5466740.89		A	0.7
3	☐	1.000		5249073.19		A	9.0
4	☐	1.000		5515313.46		A	0.9
5	☐	1.000		4805115.07		A	17.6
6	☐	1.000		5459083.94		A	0.3
7	☐	1.000		5448707.21		A	0.9
8	☐	1.000		5192964.47		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3456541.27		A	0.2
2	☐	1.000		3554671.20		A	0.5
3	☐	1.000		3558134.36		A	0.6
4	☐	1.000		3515426.86		A	0.5
5	☐	1.000		3443108.14		A	2.1
6	☐	1.000		3483788.56		A	2.0
7	☐	1.000		3492678.35		A	0.8
8	☐	1.000		3236465.23		A	2.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3468930.23		A	5.2
2	☐	1.000		3457622.34		A	0.7
3	☐	1.000		3378495.12		A	8.7
4	☐	1.000		3473654.53		A	0.4
5	☐	1.000		3006600.53		A	17.0
6	☐	1.000		3365896.96		A	0.6
7	☐	1.000		3379050.16		A	0.3
8	☐	1.000		2992252.25		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2469947.76		A	0.8
2	☐	1.000		2543520.03		A	1.4
3	☐	1.000		2543281.23		A	0.5
4	☐	1.000		2496597.18		A	1.3
5	☐	1.000		2449988.82		A	0.3
6	☐	1.000		2413717.72		A	2.0
7	☐	1.000		2367712.05		A	0.3
8	☐	1.000		2069978.94		A	3.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7101124-MS3.b

Acq. Date-Time 2024-10-11 16:07:41

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		2561	25611.51			0.621	5.000
24		87164	871638.60			0.289	5.000
25		11472	114722.42			0.845	5.000
26		12803	128034.91			0.912	5.000
59		20878	208784.39			0.673	5.000
113		1910	19104.17			0.943	5.000
115		42627	426265.85			0.632	5.000
206		9675	96753.39			1.684	5.000
207		8051	80513.39			1.123	5.000
208		19540	195397.34			1.392	5.000
220		0	1.60			34.233	

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

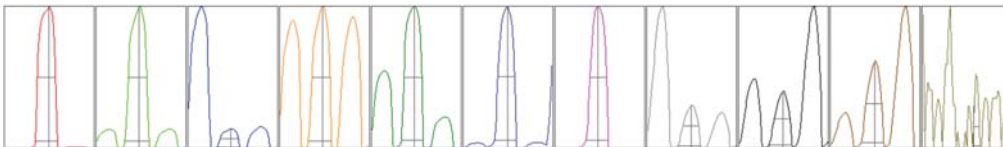
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2548	2561	2575	2543	2579
24	87057	87123	86837	87297	87505
25	11310	11473	11501	11509	11568
26	12612	12826	12798	12859	12922
59	20635	20961	20885	20934	20978
113	1896	1941	1910	1908	1898
115	42469	42970	42791	42624	42279
206	9397	9829	9718	9724	9708
207	7891	8076	8099	8088	8104
208	19063	19622	19593	19685	19736

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	4382.41	9.00	8.90 - 9.10	
24	147582.73	23.95	23.90 - 24.10	
25	19785.24	24.95	24.90 - 25.10	
26	21953.70	25.95	25.90 - 26.10	
59	35489.20	58.95	58.90 - 59.10	
113	3568.81	113.00	112.90 - 113.10	
115	79420.38	114.95	114.90 - 115.10	
206	18780.60	206.00	205.90 - 206.10	
207	15521.74	207.00	206.90 - 207.10	
208	38316.85	208.00	207.90 - 208.10	
220	0.25	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.738	0.900	
24	0.63	0.815	0.900	
25	0.62	0.741	0.900	
26	0.62	0.775	0.900	
59	0.61	0.739	0.900	
113	0.55	0.738	0.900	
115	0.55	0.761	0.900	
206	0.53	0.748	0.900	
207	0.52	0.768	0.900	
208	0.53	0.766	0.900	
220	0.19	0.244		

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	7.5 V	Deflect	16.4 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	0.9979	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.6 mm
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EM

Discriminator	4.8 mV	Analog HV	2393 V	Pulse HV	1748 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6904	69044.69			1.127	
89		67926	679255.56			1.293	
205		21514	215140.66			0.805	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6976	6883	6952	6932	6779
89	68589	67571	68817	68034	66616
205	21674	21399	21510	21695	21293

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	7.9 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-95.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 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	190 V		
QP Parameters					
Mass Gain	136	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.10		
Hardware Settings					
Torch					
Torch H	-0.5 mm	Torch V	0.6 mm		
EM					
Discriminator	4.8 mV	Analog HV	2393 V	Pulse HV	1748 V