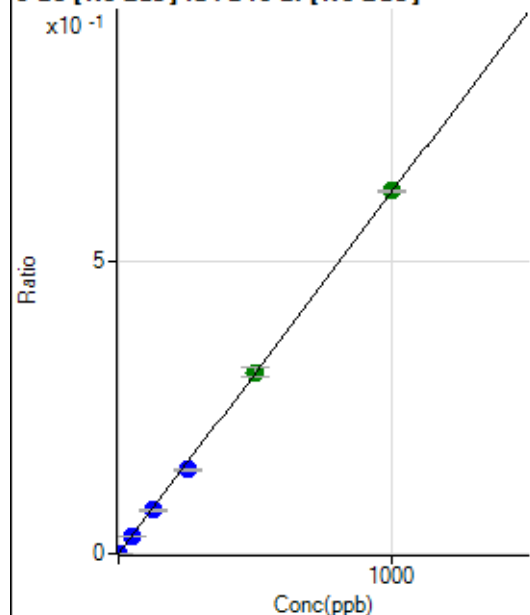


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071124-MS.b\
Analysis File: P8071124-MS.batch.bin
DA Date-Time: 2024-07-11 17:53:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-07-11 14:17:13
2	005CALS.d	S02	2024-07-11 14:20:35
3	006CALS.d	S03	2024-07-11 14:23:59
4	007CALS.d	S04	2024-07-11 14:27:09
5	008CALS.d	S05	2024-07-11 14:30:12
6	009CALS.d	S06	2024-07-11 14:33:14
7	010CALS.d	S07	2024-07-11 14:36:18
8	011CALS.d	S08	2024-07-11 14:39:19

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.74	0.0000	P	30.1
2	☐	1.000	0.931	2354.07	0.0006	P	2.2
3	☐	50.000	47.188	114170.25	0.0292	P	1.4
4	☐	125.000	121.033	280887.88	0.0748	P	3.2
5	☐	250.000	231.680	550805.70	0.1432	P	2.6
6	☐	500.000	501.974	1184138.73	0.3102	A	5.1
7	☐	1000.000	1004.230	2381056.17	0.6205	A	0.2
8	☐			826.59	0.0002	P	31.1

$$y = 6.1784\text{E-}004 * x + 2.7315\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.03996$$

$$BEC = 0.04421$$

Weight: <None>

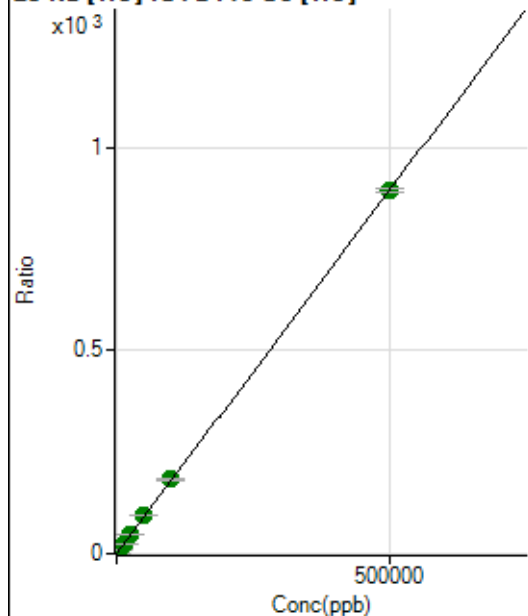
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3592011.27		A	0.6
2	☐			3596628.21		A	0.5
3	☐			3702982.03		A	1.2
4	☐			3701217.24		A	1.4
5	☐			3829681.54		A	2.5
6	☐			4050530.25		A	1.6
7	☐			4476804.48		A	3.5
8	☐			3972825.56		A	0.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38250.84		P	1.5
2	☐			37428.67		P	1.1
3	☐			38717.57		P	0.7
4	☐			39666.69		P	0.6
5	☐			40430.00		P	1.4
6	☐			44098.12		P	0.6
7	☐			51041.58		P	0.8
8	☐			48455.11		P	0.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19506.47	0.1145	P	2.5
2	☐	500.000	499.303	163427.41	1.0076	P	8.1
3	☐	5000.000	5386.984	1655183.29	9.7499	A	2.6
4	☐	12500.000	13341.589	4032400.43	23.9778	A	1.1
5	☐	25000.000	25324.068	7801829.95	45.4102	A	0.6
6	☐	50000.000	52530.251	16263823.09	94.0724	A	1.7
7	☐	100000.00	102624.57	32476388.68	183.6733	A	2.2
8	☐	500000.00	499180.94	152341155.5	892.9712	A	1.0

$$y = 0.0018 * x + 0.1145$$

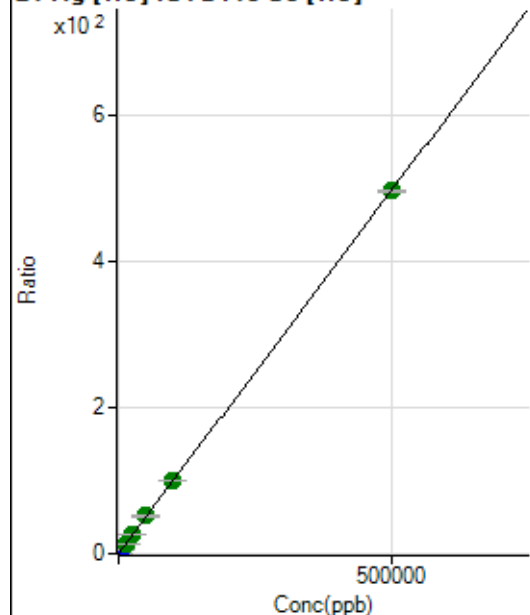
$$R = 1.0000$$

$$DL = 4.804$$

$$BEC = 64.01$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0014	P	5.1
2	☐	500.000	505.564	81843.65	0.5046	P	8.0
3	☐	5000.000	5062.272	855662.53	5.0401	P	1.7
4	☐	12500.000	13363.115	2237615.11	13.3023	A	1.7
5	☐	25000.000	25636.023	4383767.78	25.5180	A	1.9
6	☐	50000.000	51732.619	8904151.60	51.4931	A	1.6
7	☐	100000.00	100744.30	17731849.32	100.2766	A	0.7
8	☐	500000.00	499623.86	84837207.07	497.2991	A	0.5

$$y = 9.9534\text{E-}004 * x + 0.0014$$

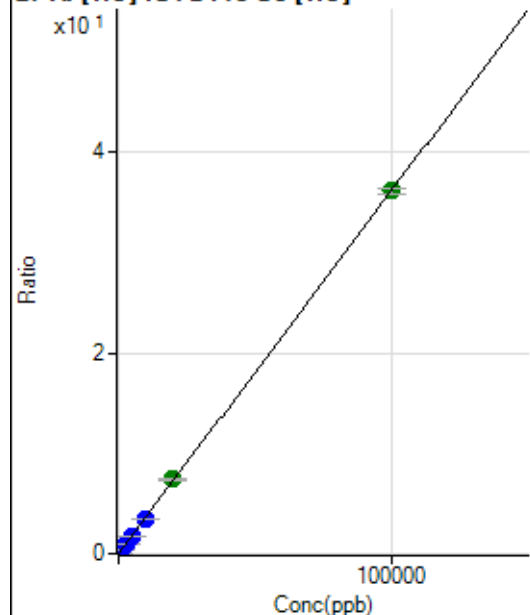
$$R = 1.0000$$

$$DL = 0.2122$$

$$BEC = 1.376$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	101.11	0.0006	P	27.2
2	☐	20.000	20.005	1266.74	0.0078	P	16.0
3	☐	1000.000	995.819	61317.45	0.3612	P	2.4
4	☐	2500.000	2496.147	152116.82	0.9045	P	0.5
5	☐	5000.000	4859.666	302449.80	1.7604	P	0.2
6	☐	10000.000	9604.627	601468.31	3.4786	P	0.5
7	☐	20000.000	20507.075	1313155.29	7.4267	A	2.1
8	☐	100000.00	99945.277	6174532.96	36.1930	A	1.6

$$y = 3.6212\text{E-}004 * x + 5.9485\text{E-}004$$

$$R = 1.0000$$

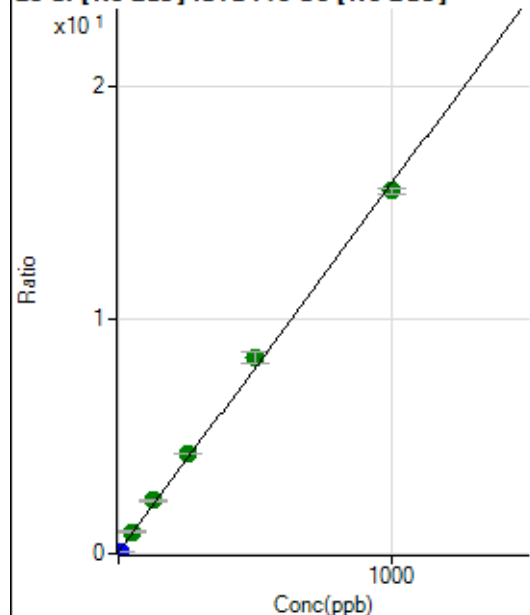
$$DL = 1.34$$

$$BEC = 1.643$$

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	414874.55	0.0789	P	0.4
2	☐	10.000	0.309	445339.46	0.0837	P	1.5
3	☐	50.000	55.021	5088168.12	0.9449	A	2.0
4	☐	125.000	140.665	12140758.98	2.2930	A	3.2
5	☐	250.000	266.478	23296124.93	4.2734	A	0.7
6	☐	500.000	527.229	44832810.44	8.3777	A	6.5
7	☐	1000.000	980.154	87939582.02	15.5070	A	1.3
8	☐			1677934.21	0.3187	A	7.1

$$y = 0.0157 * x + 0.0789$$

$$R = 0.9990$$

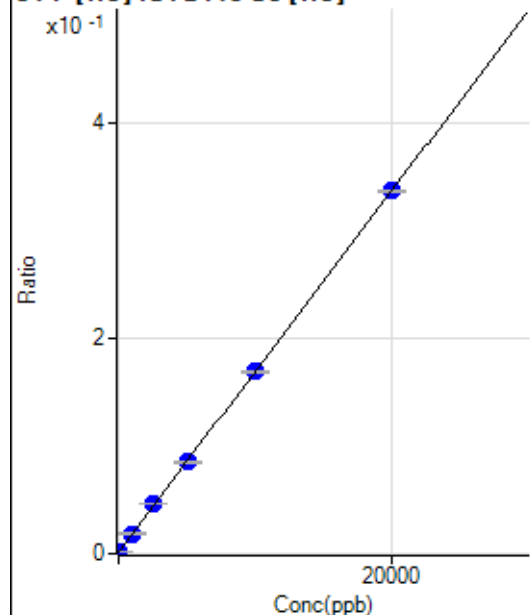
$$DL = 0.05481$$

$$BEC = 5.011$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-27.575	226.67	0.0013	P	3.6
2	☐	0.000	27.575	364.45	0.0023	P	20.1
3	☐	1000.000	1001.722	3157.04	0.0186	P	6.5
4	☐	2500.000	2650.428	7783.26	0.0463	P	2.1
5	☐	5000.000	4974.169	14647.48	0.0853	P	0.7
6	☐	10000.000	9968.973	29231.69	0.1691	P	0.8
7	☐	20000.000	20003.082	59669.73	0.3374	P	0.5
8	☐			230.00	0.0013	P	7.9

$$y = 1.6780E-005 * x + 0.0018$$

$$R = 1.0000$$

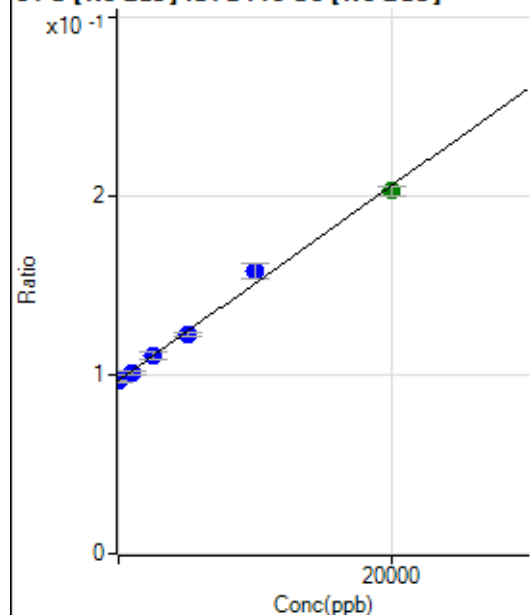
$$DL = 44.71$$

$$BEC = 106.8$$

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	112.694	511880.71	0.0973	P	0.9
2	☐	0.000	-112.694	510966.73	0.0961	P	2.1
3	☐	1000.000	767.292	543231.01	0.1009	P	1.4
4	☐	2500.000	2538.117	584899.88	0.1105	P	4.2
5	☐	5000.000	4647.749	664907.51	0.1220	P	1.6
6	☐	10000.000	11275.346	845809.35	0.1580	P	5.5
7	☐	20000.000	19457.261	1148196.32	0.2025	A	2.4
8	☐			439295.00	0.0834	P	1.3

$$y = 5.4374\text{E-}006 * x + 0.0967$$

$$R = 0.9967$$

$$DL = 821.2$$

$$BEC = 1.779\text{E}+04$$

Weight: <None>

Min Conc: 0

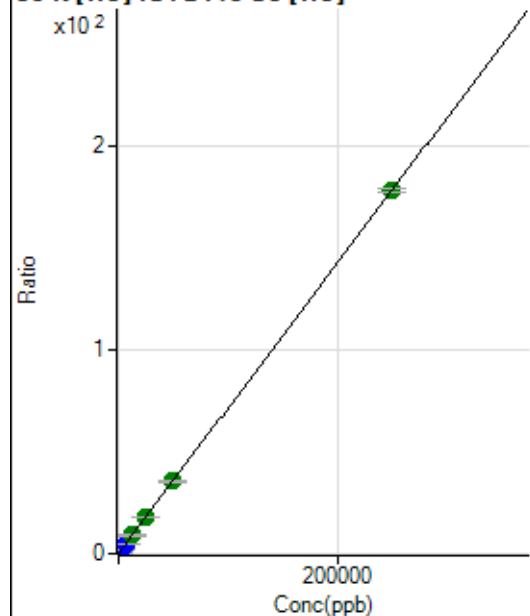
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			338881.43		P	1.0
2	☐			339002.64		P	0.4
3	☐			349674.24		P	1.1
4	☐			344189.93		P	0.2
5	☐			336856.81		P	0.4
6	☐			339194.21		P	0.3
7	☐			341100.30		P	1.5
8	☐			327788.51		P	1.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2171.30		P	1.9
2	☐			2279.09		P	2.3
3	☐			2286.87		P	2.5
4	☐			2137.95		P	3.5
5	☐			2212.42		P	2.9
6	☐			2293.54		P	2.5
7	☐			2234.64		P	4.8
8	☐			2304.66		P	0.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20198.70	0.1185	P	0.9
2	☐	500.000	480.337	74719.67	0.4607	P	8.1
3	☐	2500.000	2366.555	306311.57	1.8042	P	1.4
4	☐	6250.000	5945.146	732142.40	4.3532	P	0.3
5	☐	12500.000	12467.006	1545895.19	8.9987	A	1.7
6	☐	25000.000	25070.686	3107756.10	17.9761	A	1.6
7	☐	50000.000	49764.115	6289079.14	35.5650	A	1.8
8	☐	250000.00	250050.75	30405588.71	178.2272	A	1.1

$$y = 7.1229\text{E-}004 * x + 0.1185$$

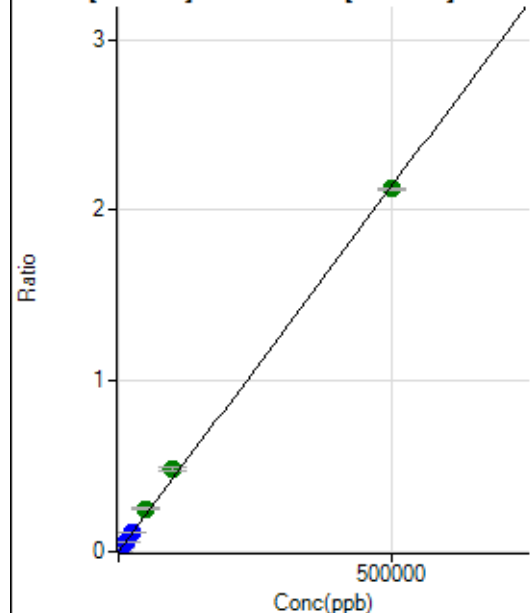
$$R = 1.0000$$

$$DL = 4.355$$

$$BEC = 166.4$$

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	360.01	0.0001	P	18.4
2	☐	500.000	465.969	10965.37	0.0021	P	4.1
3	☐	5000.000	5424.763	125411.37	0.0233	P	0.8
4	☐	12500.000	13693.024	310413.69	0.0587	P	5.5
5	☐	25000.000	26490.774	618402.80	0.1135	P	1.4
6	☐	50000.000	59096.113	1354050.75	0.2530	A	6.6
7	☐	100000.00	112364.02	2726643.75	0.4810	A	3.9
8	☐	500000.00	496509.00	11194643.86	2.1252	A	0.8

$$y = 4.2801\text{E-}006 * x + 6.8429\text{E-}005$$

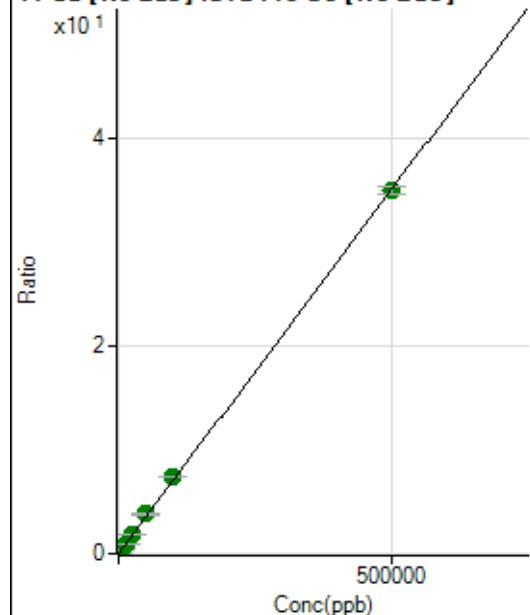
$$R = 0.9995$$

$$DL = 8.808$$

$$BEC = 15.99$$

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	15554.06	0.0030	P	1.3
2	☐	500.000	461.695	187787.66	0.0353	P	0.7
3	☐	5000.000	5454.552	2074640.77	0.3852	A	1.0
4	☐	12500.000	13635.101	5072885.72	0.9584	A	3.9
5	☐	25000.000	26784.973	10247123.11	1.8798	A	0.8
6	☐	50000.000	54887.489	20597144.83	3.8490	A	6.4
7	☐	100000.00	106023.29	42148616.32	7.4322	A	0.8
8	☐	500000.00	498184.45	183934452.8	34.9115	A	2.2

$$y = 7.0071\text{E-}005 * x + 0.0030$$

$$R = 0.9999$$

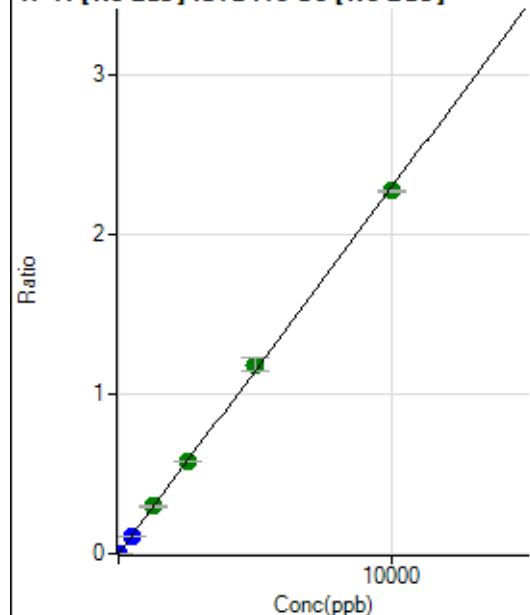
$$DL = 1.589$$

$$BEC = 42.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.89	0.0000	P	11.8
2	☐	5.000	4.138	5214.32	0.0010	P	4.2
3	☐	500.000	482.893	597582.24	0.1110	P	1.0
4	☐	1250.000	1286.358	1564712.75	0.2955	A	3.4
5	☐	2500.000	2522.560	3159235.27	0.5795	A	0.7
6	☐	5000.000	5169.381	6354631.50	1.1876	A	6.6
7	☐	10000.000	9905.980	12906722.45	2.2758	A	0.4
8	☐			3174.91	0.0006	P	43.2

$$y = 2.2973\text{E-}004 * x + 3.0208\text{E-}005$$

$$R = 0.9998$$

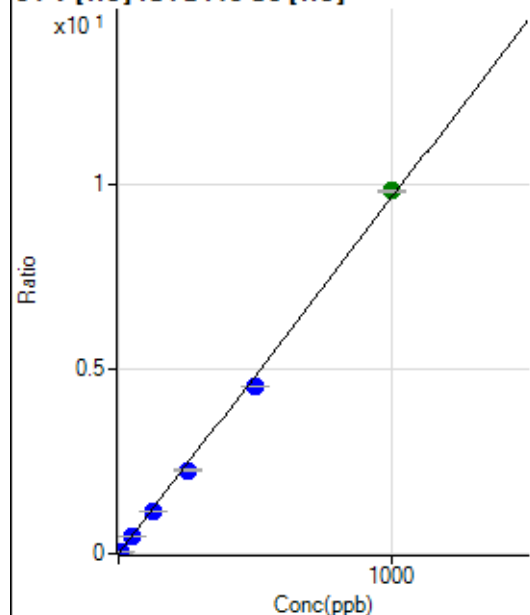
$$DL = 0.04673$$

$$BEC = 0.1315$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0001	P	58.7
2	☐	5.000	4.995	7811.09	0.0482	P	8.3
3	☐	50.000	47.614	77806.65	0.4583	P	3.1
4	☐	125.000	119.707	193747.85	1.1520	P	0.8
5	☐	250.000	234.926	388411.94	2.2608	P	0.6
6	☐	500.000	470.602	783092.28	4.5287	P	0.5
7	☐	1000.000	1019.249	1734388.76	9.8083	A	0.6
8	☐			742.25	0.0043	P	22.4

$$y = 0.0096 * x + 9.7152\text{E-}005$$

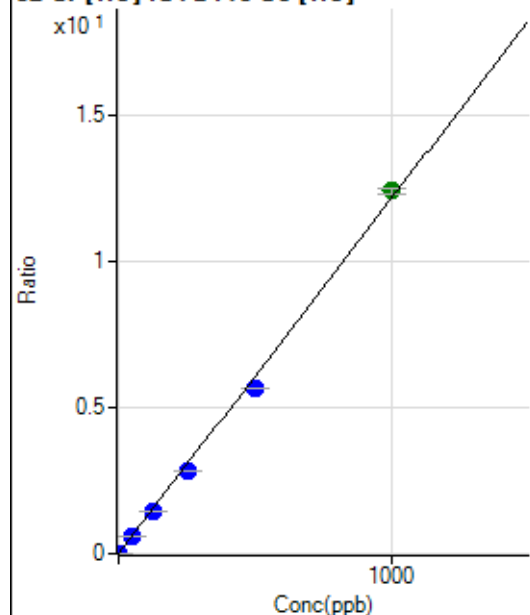
$$R = 0.9992$$

$$DL = 0.01778$$

$$BEC = 0.0101$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	790.03	0.0046	P	2.8
2	☐	2.000	1.968	4633.02	0.0286	P	7.2
3	☐	50.000	47.714	99248.14	0.5846	P	1.3
4	☐	125.000	118.708	243445.43	1.4475	P	0.4
5	☐	250.000	233.901	489236.67	2.8476	P	0.4
6	☐	500.000	467.494	983346.54	5.6868	P	0.1
7	☐	1000.000	1021.178	2195488.37	12.4167	A	1.8
8	☐			17649.89	0.1035	P	2.4

$$y = 0.0122 * x + 0.0046$$

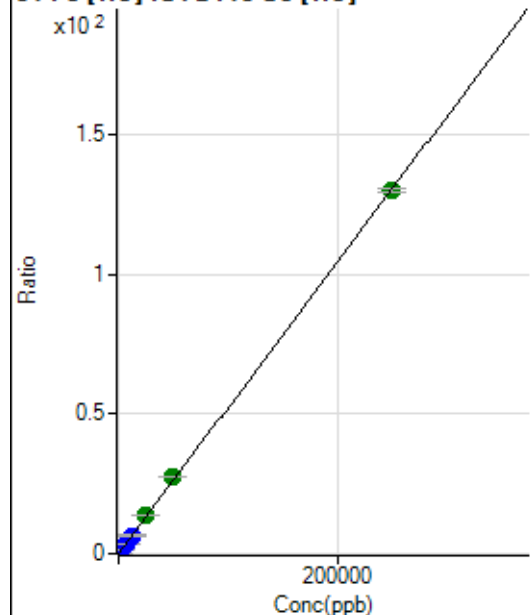
$$R = 0.9991$$

$$DL = 0.03211$$

$$BEC = 0.3814$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	378.90	0.0022	P	10.4
2	☐	50.000	53.368	4868.67	0.0300	P	9.6
3	☐	2500.000	2560.439	226908.31	1.3366	P	2.2
4	☐	6250.000	6440.836	564950.35	3.3590	P	0.4
5	☐	12500.000	12530.273	1122333.20	6.5325	P	0.4
6	☐	25000.000	26705.478	2407336.53	13.9202	A	1.4
7	☐	50000.000	52940.293	4879241.21	27.5928	A	1.7
8	☐	250000.00	249234.50	22160001.89	129.8942	A	1.1

$$y = 5.2116E-004 * x + 0.0022$$

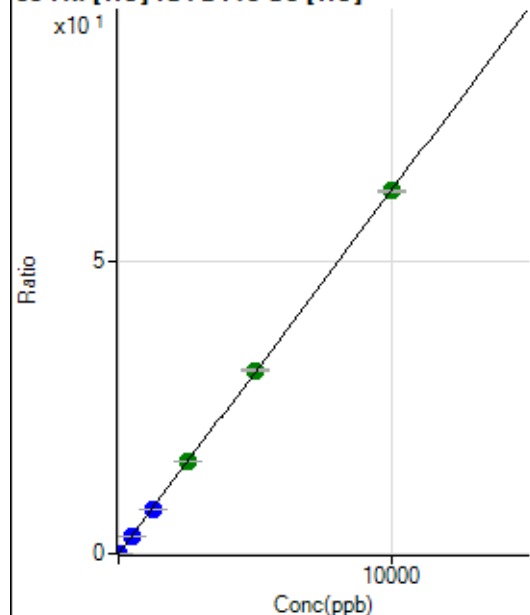
$$R = 0.9999$$

$$DL = 1.33$$

$$BEC = 4.269$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	92.22	0.0005	P	17.9
2	☐	1.000	0.990	1083.39	0.0067	P	8.0
3	☐	500.000	478.918	504260.85	2.9702	P	1.7
4	☐	1250.000	1196.734	1248091.56	7.4213	P	0.5
5	☐	2500.000	2533.416	2699207.48	15.7099	A	1.5
6	☐	5000.000	5030.275	5394444.19	31.1925	A	1.0
7	☐	10000.000	9984.221	10947486.92	61.9111	A	0.8
8	☐			6445.99	0.0378	P	12.2

$$y = 0.0062 * x + 5.4127E-004$$

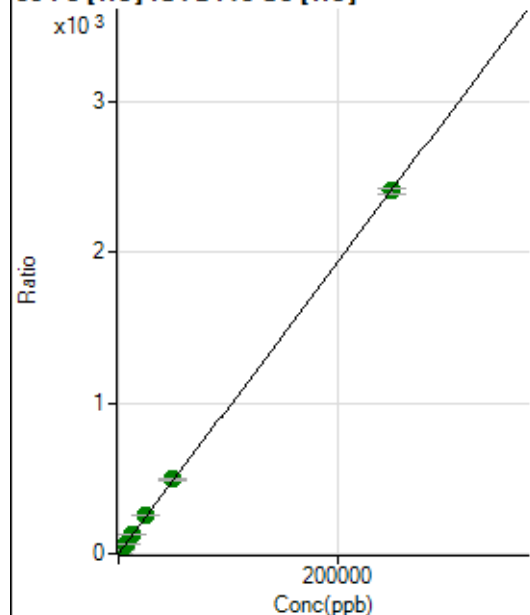
$$R = 1.0000$$

$$DL = 0.04678$$

$$BEC = 0.08729$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4087.00	0.0240	P	11.6
2	☐	50.000	50.903	83493.28	0.5148	P	8.4
3	☐	2500.000	2624.609	4300619.38	25.3316	A	4.0
4	☐	6250.000	6590.158	10689226.92	63.5690	A	1.7
5	☐	12500.000	12975.698	21501456.07	125.1409	A	0.3
6	☐	25000.000	25944.617	43260334.35	250.1925	A	0.3
7	☐	50000.000	51141.894	87202488.15	493.1548	A	1.1
8	☐	250000.00	249643.62	410671211.6	2.407188	A	1.4

$$y = 0.0096 * x + 0.0240$$

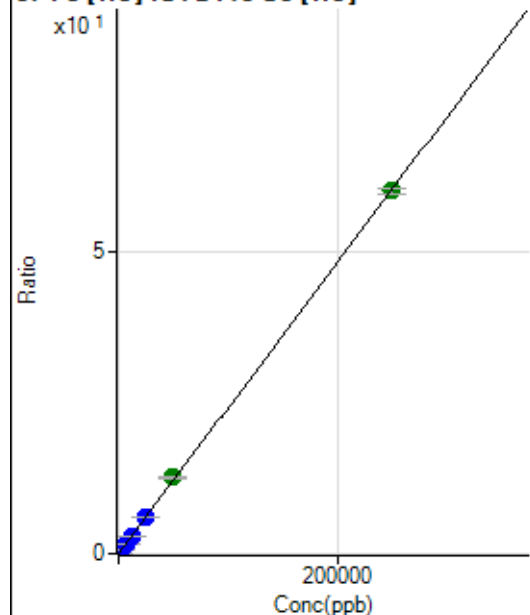
$$R = 1.0000$$

$$DL = 0.8692$$

$$BEC = 2.491$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	286.67	0.0017	P	15.3
2	☐	50.000	52.031	2297.99	0.0142	P	11.1
3	☐	2500.000	2495.776	102022.98	0.6009	P	1.4
4	☐	6250.000	6353.821	256852.06	1.5272	P	1.3
5	☐	12500.000	12329.913	508930.91	2.9620	P	0.4
6	☐	25000.000	24543.075	1019132.69	5.8943	P	0.6
7	☐	50000.000	52463.073	2227571.04	12.5977	A	1.2
8	☐	250000.00	249559.02	10222396.24	59.9193	A	1.4

$$y = 2.4009\text{E-}004 * x + 0.0017$$

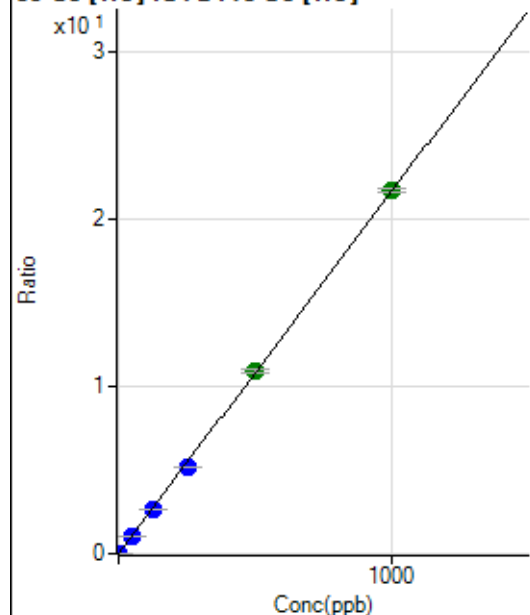
$$R = 0.9999$$

$$DL = 3.215$$

$$BEC = 7.009$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0006	P	9.2
2	☐	1.000	1.056	3800.55	0.0235	P	12.8
3	☐	50.000	48.658	179234.76	1.0557	P	1.7
4	☐	125.000	121.842	444420.93	2.6426	P	0.8
5	☐	250.000	237.677	885535.42	5.1542	P	0.7
6	☐	500.000	503.536	1887763.81	10.9190	A	1.6
7	☐	1000.000	1001.775	3841395.01	21.7225	A	1.2
8	☐			8826.16	0.0517	P	3.7

$$y = 0.0217 * x + 5.8655\text{E-}004$$

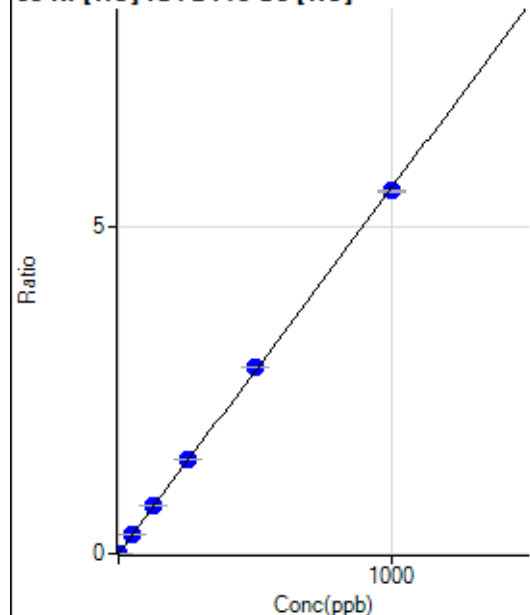
$$R = 0.9999$$

$$DL = 0.007445$$

$$BEC = 0.02705$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0008	P	24.6
2	☐	1.000	1.105	1136.73	0.0070	P	11.8
3	☐	50.000	52.786	50194.72	0.2957	P	0.2
4	☐	125.000	132.314	124423.77	0.7398	P	0.4
5	☐	250.000	257.848	247564.97	1.4409	P	1.0
6	☐	500.000	509.487	492132.18	2.8463	P	0.6
7	☐	1000.000	992.241	980057.65	5.5425	P	0.8
8	☐			7180.77	0.0421	P	0.9

$$y = 0.0056 * x + 8.4688E-004$$

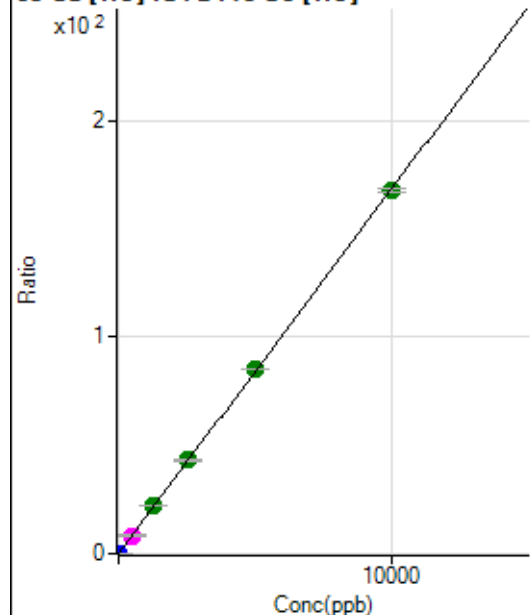
$$R = 0.9999$$

$$DL = 0.112$$

$$BEC = 0.1516$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1699.01	0.0100	P	1.9
2	☐	2.000	2.030	7169.64	0.0442	P	6.3
3	☐	500.000	500.174	1431924.42	8.4332	M	2.3
4	☐	1250.000	1312.409	3718383.90	22.1117	A	2.5
5	☐	2500.000	2557.652	7401338.99	43.0822	A	1.1
6	☐	5000.000	5055.161	14722095.89	85.1416	A	0.3
7	☐	10000.000	9950.197	29631778.17	167.5767	A	1.1
8	☐			8877.51	0.0520	P	26.1

$$y = 0.0168 * x + 0.0100$$

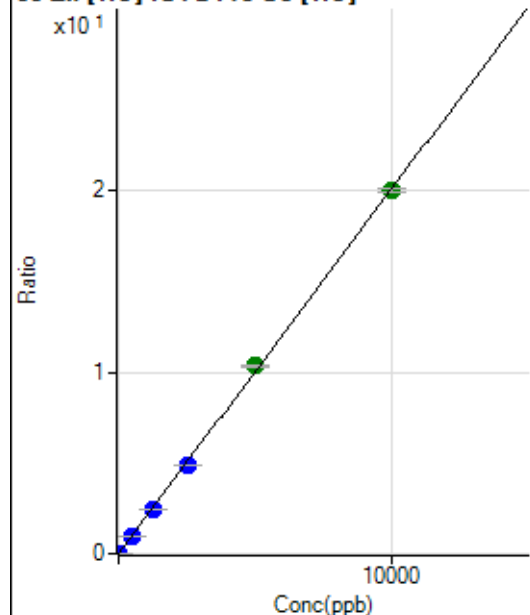
$$R = 0.9999$$

$$DL = 0.03302$$

$$BEC = 0.5921$$

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	173.34	0.0010	P	4.8
2	☐	2.000	5.093	1819.03	0.0112	P	11.9
3	☐	500.000	492.525	167928.54	0.9891	P	1.7
4	☐	1250.000	1233.513	416356.42	2.4756	P	0.7
5	☐	2500.000	2415.876	832861.05	4.8477	P	0.8
6	☐	5000.000	5143.700	1784473.25	10.3201	A	0.7
7	☐	10000.000	9951.615	3530382.38	19.9656	A	1.1
8	☐			1346.75	0.0079	P	20.8

$$y = 0.0020 * x + 0.0010$$

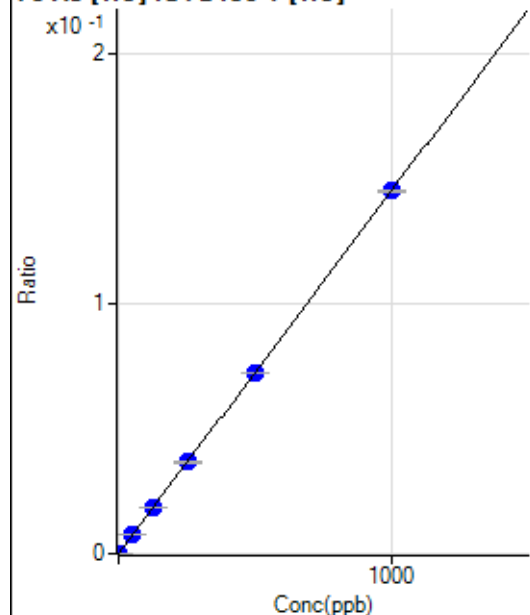
$$R = 0.9998$$

$$DL = 0.07347$$

$$BEC = 0.5072$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.3
2	☐	1.000	1.049	185.56	0.0002	P	17.2
3	☐	50.000	50.662	9263.12	0.0074	P	0.8
4	☐	125.000	126.395	22981.07	0.0183	P	0.5
5	☐	250.000	252.206	46489.76	0.0366	P	0.8
6	☐	500.000	498.828	93577.29	0.0724	P	0.1
7	☐	1000.000	999.827	190382.22	0.1450	P	0.7
8	☐			134.45	0.0001	P	11.7

$$y = 1.4504E-004 * x + 4.4186E-006$$

$$R = 1.0000$$

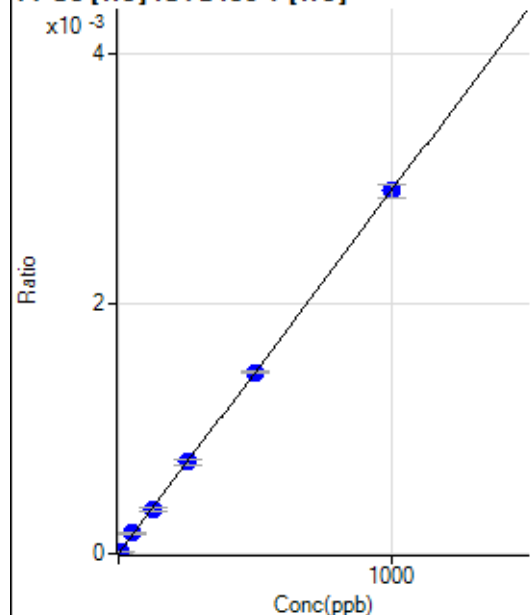
$$DL = 0.03131$$

$$BEC = 0.03046$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.565	16.67	0.0000	P	27.8
3	☐	50.000	57.479	211.11	0.0002	P	8.9
4	☐	125.000	122.464	446.68	0.0004	P	8.3
5	☐	250.000	253.221	935.60	0.0007	P	6.2
6	☐	500.000	499.914	1877.92	0.0015	P	1.0
7	☐	1000.000	999.183	3809.45	0.0029	P	3.5
8	☐			2.22	0.0000	P	86.6

$$y = 2.9030\text{E-}006 * x + 8.7334\text{E-}007$$

$$R = 1.0000$$

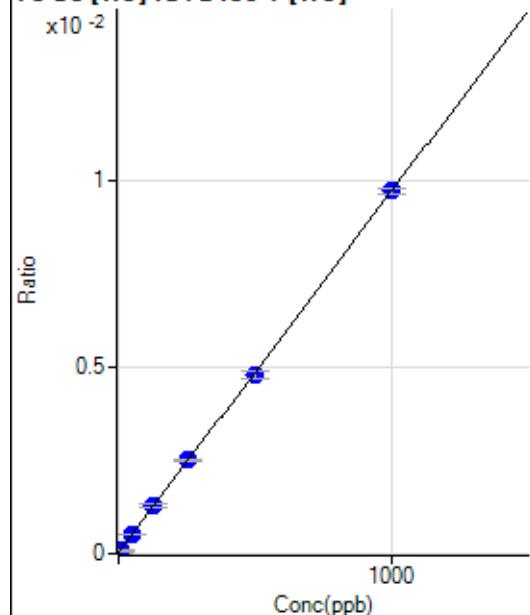
$$DL = 1.563$$

$$BEC = 0.3008$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	48.2
2	☐	5.000	6.272	101.11	0.0001	P	42.5
3	☐	50.000	51.252	657.80	0.0005	P	4.7
4	☐	125.000	130.348	1614.56	0.0013	P	5.5
5	☐	250.000	257.432	3202.62	0.0025	P	2.0
6	☐	500.000	492.495	6203.65	0.0048	P	5.2
7	☐	1000.000	1001.157	12770.34	0.0097	P	1.5
8	☐			17.78	0.0000	P	22.0

$$y = 9.6905\text{E-}006 * x + 2.5692\text{E-}005$$

$$R = 0.9999$$

$$DL = 3.837$$

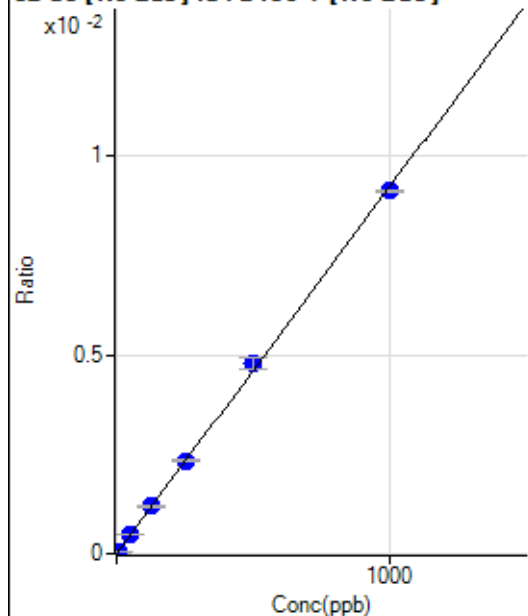
$$BEC = 2.651$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4227.35		P	1.2
2	☐			4117.32		P	0.3
3	☐			3960.61		P	4.0
4	☐			3909.48		P	5.4
5	☐			4021.73		P	1.9
6	☐			4157.33		P	1.9
7	☐			4282.93		P	1.0
8	☐			4296.26		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.45	0.0000	P	531.
2	☐	5.000	5.389	630.04	0.0001	P	16.0
3	☐	50.000	50.982	5980.36	0.0005	P	2.7
4	☐	125.000	128.579	14997.33	0.0012	P	5.0
5	☐	250.000	254.228	30439.19	0.0023	P	3.2
6	☐	500.000	517.723	60650.86	0.0048	P	6.4
7	☐	1000.000	989.583	120321.49	0.0091	P	0.9
8	☐			45.56	0.0000	P	68.1

$$y = 9.2184\text{E-}006 * x + 3.8312\text{E-}007$$

$$R = 0.9998$$

$$DL = 0.6627$$

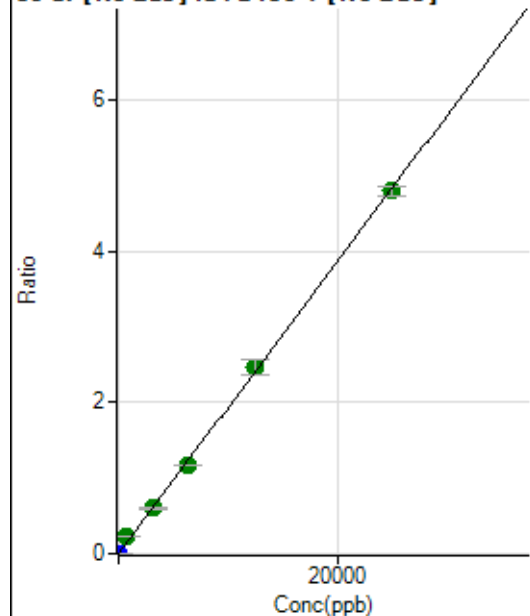
$$BEC = 0.04156$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			263.34		P	7.7
2	☐			297.78		P	5.5
3	☐			318.90		P	11.7
4	☐			302.23		P	0.6
5	☐			265.56		P	21.1
6	☐			320.01		P	9.9
7	☐			282.23		P	21.5
8	☐			281.12		P	4.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	577.80	0.0000	P	9.7
2	☐	1.000	0.910	2794.76	0.0002	P	5.7
3	☐	625.000	1235.979	3032600.75	0.2385	A	1.3
4	☐	3125.000	3136.941	7661074.82	0.6052	A	2.7
5	☐	6250.000	6098.553	15289477.13	1.1765	A	0.9
6	☐	12500.000	12799.998	31361895.92	2.4692	A	7.5
7	☐	25000.000	24871.096	63262672.39	4.7978	A	2.8
8	☐			18210.12	0.0014	P	38.5

$$y = 1.9291E-004 * x + 4.6366E-005$$

$$R = 0.9996$$

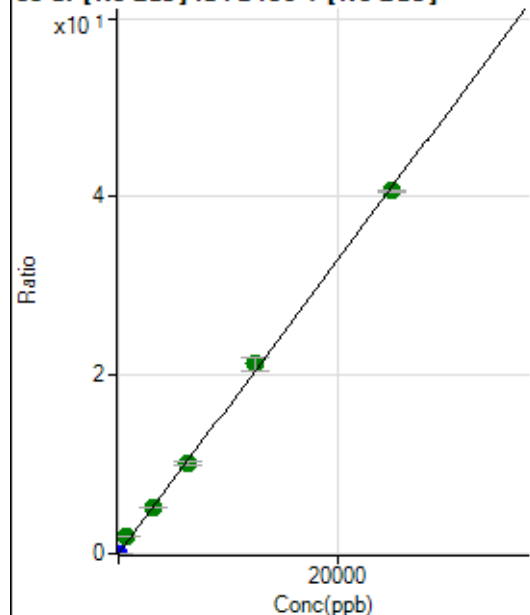
$$DL = 0.0703$$

$$BEC = 0.2404$$

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	1020.05	0.0001	P	6.0
2	☐	1.000	0.936	20389.43	0.0016	P	1.8
3	☐	625.000	1240.799	25887420.17	2.0357	A	0.9
4	☐	3125.000	3153.108	65474770.13	5.1731	A	3.4
5	☐	6250.000	6189.823	131869813.5	10.1551	A	3.5
6	☐	12500.000	12938.912	269726735.9	21.2277	A	6.9
7	☐	25000.000	24776.680	536137805.3	40.6487	A	0.8
8	☐			153653.77	0.0121	P	39.3

$$y = 0.0016 * x + 8.1811E-005$$

$$R = 0.9995$$

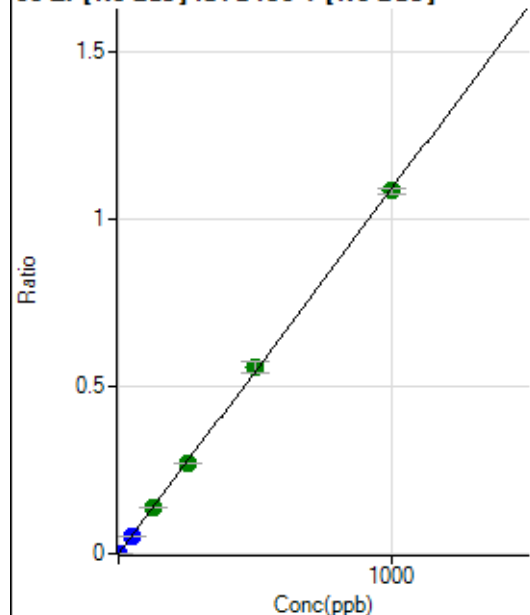
$$DL = 0.009049$$

$$BEC = 0.04987$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	696.69	0.0001	P	2.0
2	☐	1.000	0.849	12373.34	0.0010	P	2.6
3	☐	50.000	46.935	651472.54	0.0512	P	1.0
4	☐	125.000	126.412	1745063.97	0.1379	A	3.5
5	☐	250.000	246.382	3491419.98	0.2687	A	0.6
6	☐	500.000	512.354	7099824.82	0.5587	A	6.2
7	☐	1000.000	994.704	14305195.90	1.0846	A	1.7
8	☐			9062.06	0.0007	P	18.9

$$y = 0.0011 * x + 5.5843E-005$$

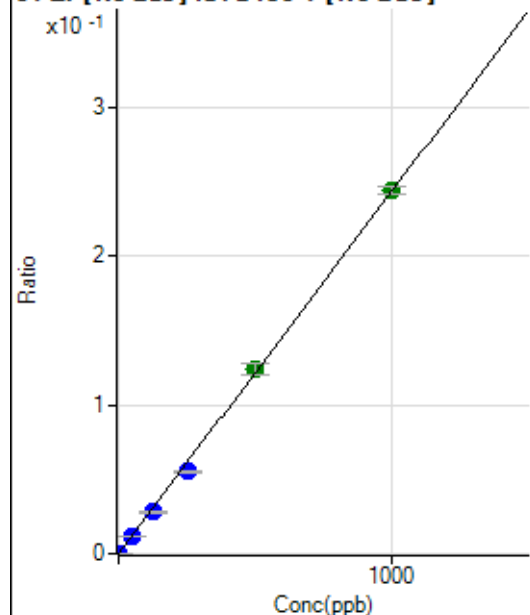
$$R = 0.9999$$

$$DL = 0.003097$$

$$BEC = 0.05122$$

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	87.78	0.0000	P	16.3
2	☐	1.000	0.833	2639.17	0.0002	P	2.1
3	☐	50.000	45.889	141917.03	0.0112	P	1.6
4	☐	125.000	115.594	355311.34	0.0281	P	5.9
5	☐	250.000	226.411	714864.53	0.0550	P	2.0
6	☐	500.000	509.554	1573770.32	0.1239	A	6.1
7	☐	1000.000	1002.502	3213267.21	0.2437	A	2.0
8	☐			2020.18	0.0002	P	21.8

$$y = 2.4305E-004 * x + 7.0430E-006$$

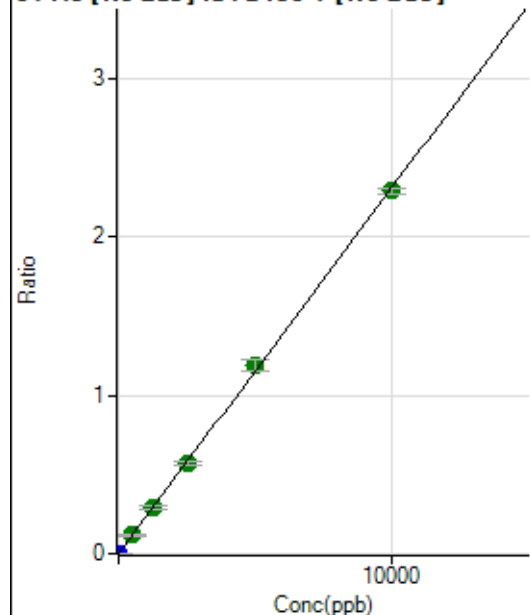
$$R = 0.9996$$

$$DL = 0.01421$$

$$BEC = 0.02898$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	142.23	0.0000	P	15.5
2	☐	5.000	4.948	14539.93	0.0012	P	2.0
3	☐	500.000	502.571	1475410.53	0.1160	A	3.1
4	☐	1250.000	1262.120	3683672.72	0.2914	A	6.4
5	☐	2500.000	2472.045	7410970.58	0.5707	A	3.3
6	☐	5000.000	5159.194	15136251.16	1.1910	A	6.2
7	☐	10000.000	9925.748	30219335.94	2.2914	A	1.8
8	☐			13068.10	0.0010	P	25.4

$$y = 2.3085E-004 * x + 1.1414E-005$$

$$R = 0.9998$$

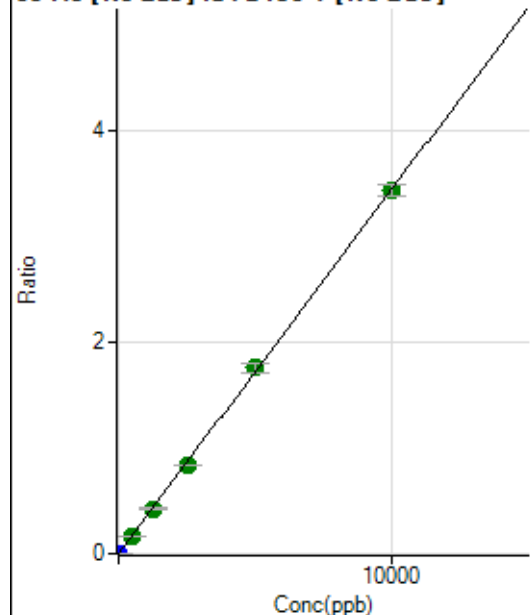
$$DL = 0.02306$$

$$BEC = 0.04944$$

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	74.44	0.0000	P	5.0
2	☐	5.000	4.064	17708.06	0.0014	P	0.8
3	☐	500.000	493.686	2161202.26	0.1699	A	2.3
4	☐	1250.000	1240.992	5399621.93	0.4272	A	6.7
5	☐	2500.000	2434.874	10890731.23	0.8382	A	0.8
6	☐	5000.000	5104.309	22330152.72	1.7570	A	5.8
7	☐	10000.000	9965.569	45231547.11	3.4304	A	3.1
8	☐			17310.14	0.0014	P	27.9

$$y = 3.4423\text{E-}004 * x + 5.9706\text{E-}006$$

$$R = 0.9999$$

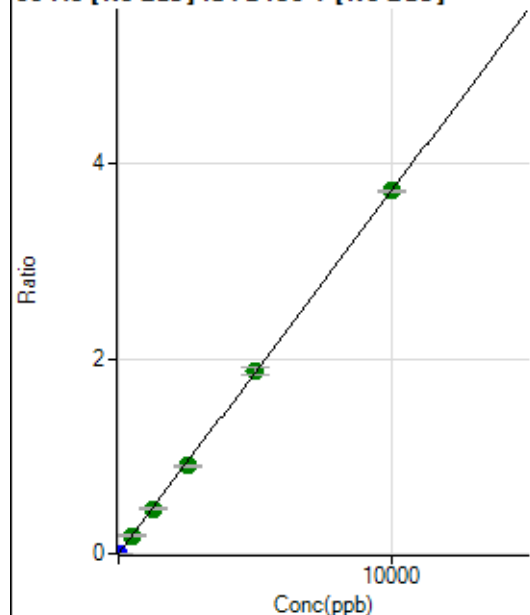
$$DL = 0.002611$$

$$BEC = 0.01734$$

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	158.89	0.0000	P	8.7
2	☐	5.000	4.097	19365.85	0.0015	P	1.5
3	☐	500.000	500.878	2368199.15	0.1862	A	2.9
4	☐	1250.000	1233.011	5795827.21	0.4584	A	6.2
5	☐	2500.000	2416.108	11671450.94	0.8983	A	0.6
6	☐	5000.000	5043.248	23840657.42	1.8751	A	4.1
7	☐	10000.000	10001.429	49048255.38	3.7185	A	0.8
8	☐			20068.45	0.0016	P	27.0

$$y = 3.7179\text{E-}004 * x + 1.2737\text{E-}005$$

$$R = 0.9999$$

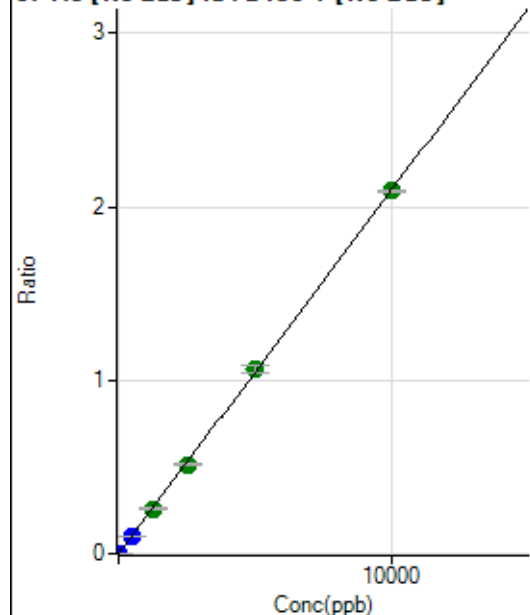
$$DL = 0.008971$$

$$BEC = 0.03426$$

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	51.11	0.0000	P	19.0
2	☐	5.000	4.195	11132.34	0.0009	P	1.0
3	☐	500.000	469.889	1252204.57	0.0985	P	1.2
4	☐	1250.000	1235.258	3275122.14	0.2589	A	4.4
5	☐	2500.000	2439.501	6639955.25	0.5112	A	2.3
6	☐	5000.000	5080.818	13536886.88	1.0647	A	4.6
7	☐	10000.000	9978.064	27582651.81	2.0910	A	0.6
8	☐			10812.71	0.0009	P	31.5

$$y = 2.0956\text{E-}004 * x + 4.1095\text{E-}006$$

$$R = 0.9999$$

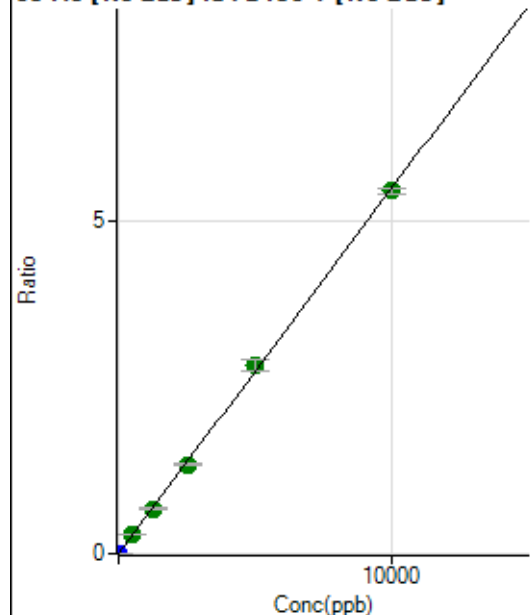
$$DL = 0.01118$$

$$BEC = 0.01961$$

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	86.67	0.0000	P	23.0
2	☐	5.000	4.107	28435.82	0.0023	P	1.8
3	☐	500.000	503.816	3506829.64	0.2758	A	1.0
4	☐	1250.000	1234.815	8548707.23	0.6759	A	5.3
5	☐	2500.000	2445.153	17382463.91	1.3384	A	2.6
6	☐	5000.000	5158.007	35878010.02	2.8232	A	6.2
7	☐	10000.000	9936.416	71732257.82	5.4387	A	1.6
8	☐			27364.68	0.0022	P	29.0

$$y = 5.4735\text{E-}004 * x + 6.9598\text{E-}006$$

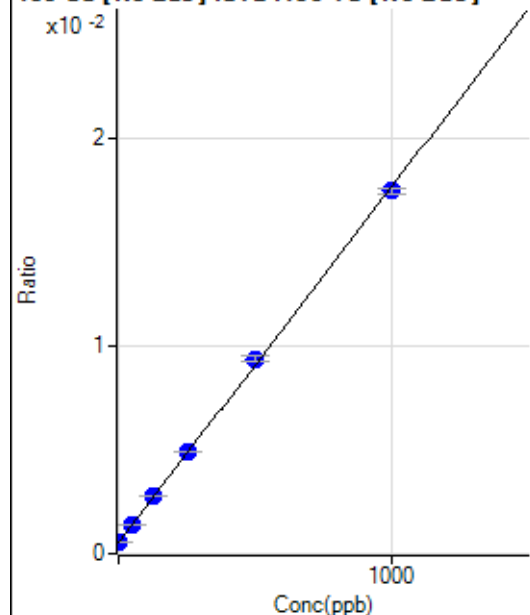
$$R = 0.9998$$

$$DL = 0.008776$$

$$BEC = 0.01272$$

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	5687.89	0.0005	P	1.1
2	☐	1.000	0.356	5844.64	0.0005	P	3.7
3	☐	50.000	49.668	15485.48	0.0014	P	1.0
4	☐	125.000	130.596	30086.17	0.0028	P	1.3
5	☐	250.000	256.059	55173.04	0.0049	P	1.2
6	☐	500.000	517.072	105650.74	0.0094	P	2.9
7	☐	1000.000	989.267	206277.91	0.0175	P	1.4
8	☐			5073.21	0.0005	P	3.7

$$y = 1.7125E-005 * x + 5.2457E-004$$

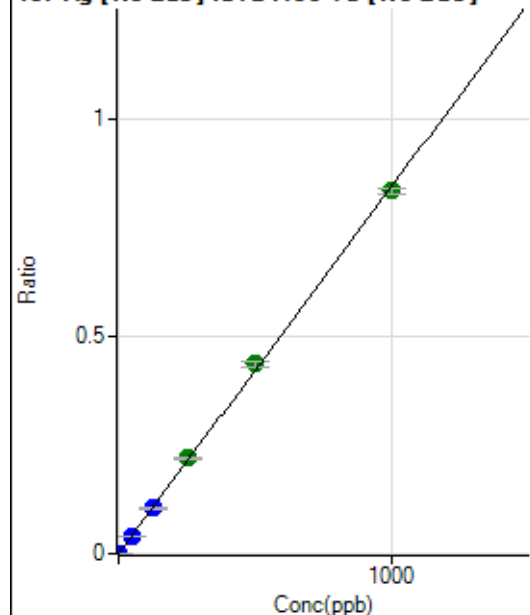
$$R = 0.9997$$

$$DL = 1.026$$

$$BEC = 30.63$$

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	115.56	0.0000	P	20.5
2	☐	1.000	0.955	8985.23	0.0008	P	2.0
3	☐	50.000	48.886	464573.58	0.0413	P	2.3
4	☐	125.000	125.102	1149566.73	0.1056	P	3.6
5	☐	250.000	259.602	2462577.45	0.2191	A	1.6
6	☐	500.000	518.149	4924868.57	0.4372	A	3.1
7	☐	1000.000	988.568	9851717.21	0.8342	A	1.8
8	☐			4531.30	0.0004	P	120.

$$y = 8.4382E-004 * x + 1.0672E-005$$

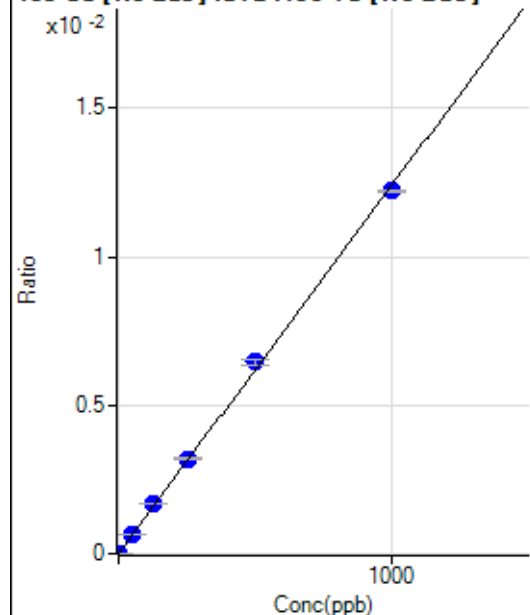
$$R = 0.9997$$

$$DL = 0.007791$$

$$BEC = 0.01265$$

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	20.00	0.0000	P	43.0
2	☐	1.000	1.025	160.00	0.0000	P	5.4
3	☐	50.000	52.421	7330.91	0.0007	P	3.0
4	☐	125.000	136.715	18464.70	0.0017	P	2.0
5	☐	250.000	257.928	35924.54	0.0032	P	0.8
6	☐	500.000	520.838	72680.31	0.0065	P	3.3
7	☐	1000.000	986.014	144267.53	0.0122	P	0.7
8	☐			124.45	0.0000	P	3.9

$$y = 1.2386E-005 * x + 1.8391E-006$$

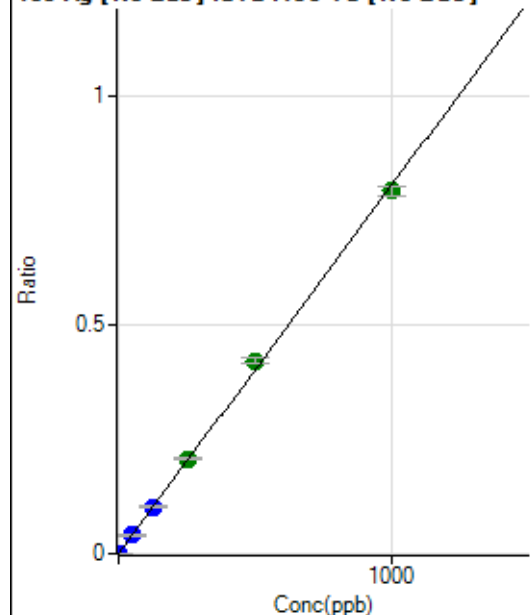
$$R = 0.9996$$

$$DL = 0.1914$$

$$BEC = 0.1485$$

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	60.00	0.0000	P	14.2
2	☐	1.000	0.963	8579.42	0.0008	P	2.6
3	☐	50.000	49.690	449380.70	0.0399	P	2.1
4	☐	125.000	127.512	1115475.08	0.1024	P	2.2
5	☐	250.000	258.294	2331552.76	0.2074	A	0.8
6	☐	500.000	524.773	4748096.87	0.4215	A	2.0
7	☐	1000.000	985.242	9344228.54	0.7913	A	2.7
8	☐			1721.28	0.0002	P	53.3

$$y = 8.0310E-004 * x + 5.5308E-006$$

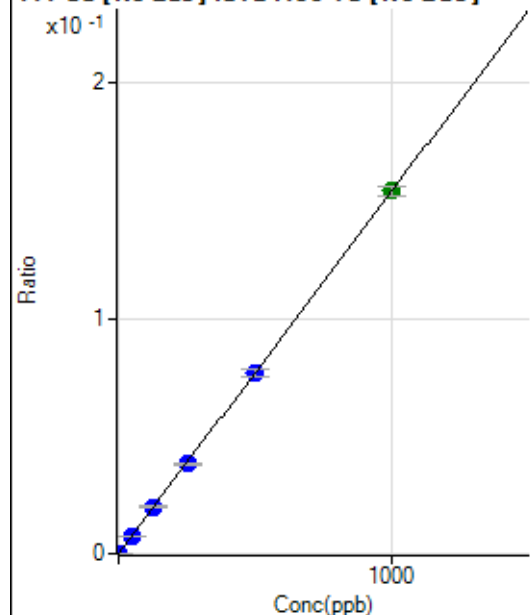
$$R = 0.9995$$

$$DL = 0.002929$$

$$BEC = 0.006887$$

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	573.68	0.0001	P	2.0
2	☐	1.000	0.978	2241.48	0.0002	P	3.6
3	☐	50.000	49.437	86319.49	0.0077	P	1.8
4	☐	125.000	127.509	214381.40	0.0197	P	3.8
5	☐	250.000	247.068	428200.87	0.0381	P	1.1
6	☐	500.000	497.638	863716.50	0.0767	P	4.3
7	☐	1000.000	1001.629	1822314.43	0.1543	A	2.5
8	☐			978.01	0.0001	P	20.7

$$y = 1.5400\text{E-}004 * x + 5.2913\text{E-}005$$

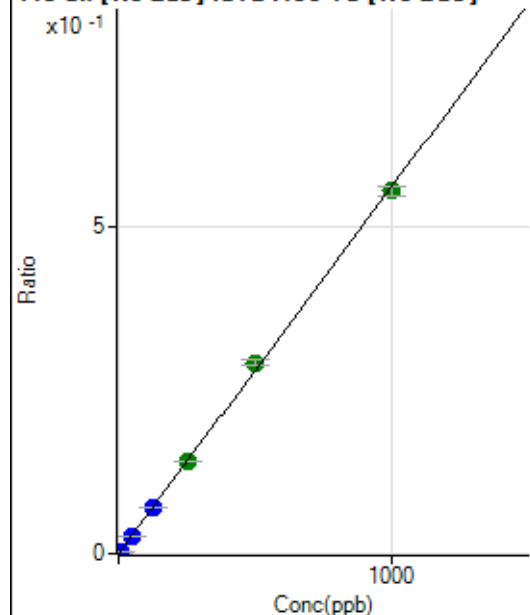
$$R = 1.0000$$

$$DL = 0.02078$$

$$BEC = 0.3436$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1324.53	0.0001	P	4.1
2	☐	5.000	4.745	30654.39	0.0028	P	1.1
3	☐	50.000	48.438	307280.02	0.0273	P	2.6
4	☐	125.000	125.630	768859.95	0.0706	P	2.4
5	☐	250.000	250.006	1577457.23	0.1404	A	0.8
6	☐	500.000	521.438	3296072.03	0.2926	A	2.7
7	☐	1000.000	989.280	6555147.26	0.5550	A	2.9
8	☐			4978.78	0.0004	P	9.9

$$y = 5.6092\text{E-}004 * x + 1.2212\text{E-}004$$

$$R = 0.9996$$

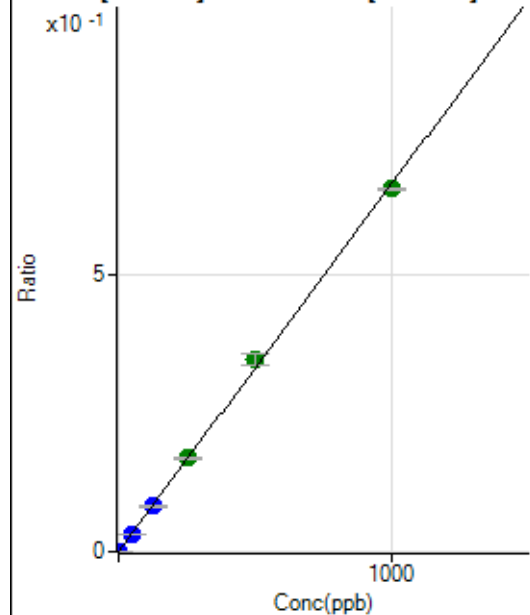
$$DL = 0.02691$$

$$BEC = 0.2177$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40.00	0.0000	P	29.3
2	☐	2.000	1.938	14197.49	0.0013	P	0.4
3	☐	50.000	48.382	361425.31	0.0321	P	1.4
4	☐	125.000	124.343	898176.68	0.0825	P	3.0
5	☐	250.000	254.370	1895727.85	0.1687	A	2.9
6	☐	500.000	524.239	3915225.63	0.3477	A	5.4
7	☐	1000.000	986.951	7731903.29	0.6546	A	0.6
8	☐			5213.31	0.0005	P	12.0

$$y = 6.6326E-004 * x + 3.6917E-006$$

$$R = 0.9995$$

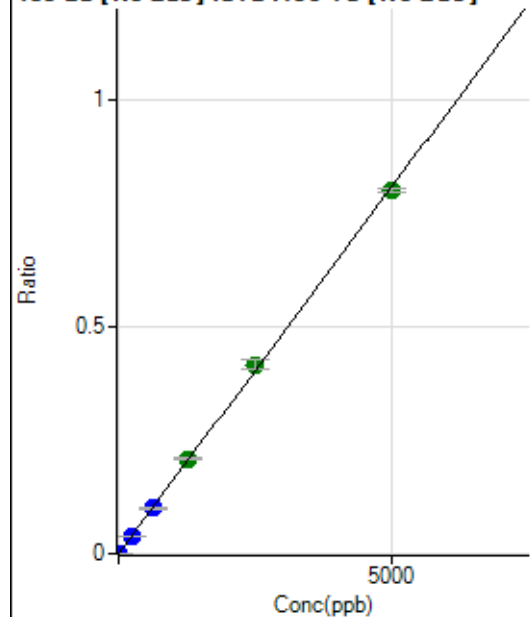
$$DL = 0.004895$$

$$BEC = 0.005566$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64.44	0.0000	P	20.5
2	☐	10.000	9.272	16566.90	0.0015	P	0.9
3	☐	250.000	240.644	437987.26	0.0389	P	1.9
4	☐	625.000	619.818	1090756.33	0.1002	P	3.8
5	☐	1250.000	1293.223	2348513.56	0.2090	A	2.6
6	☐	2500.000	2579.736	4695230.38	0.4169	A	5.5
7	☐	5000.000	4950.443	9450282.92	0.8001	A	1.1
8	☐			4817.64	0.0004	P	25.1

$$y = 1.6162E-004 * x + 5.9516E-006$$

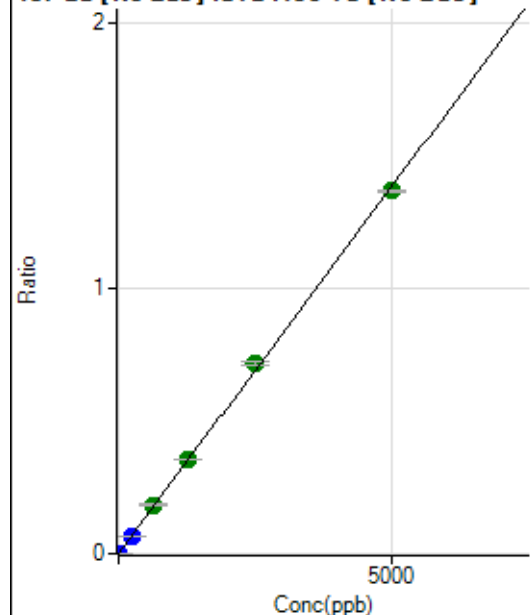
$$R = 0.9997$$

$$DL = 0.02262$$

$$BEC = 0.03683$$

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	84.45	0.0000	P	19.8
2	☐	10.000	9.664	29528.97	0.0027	P	1.0
3	☐	250.000	245.179	764048.78	0.0679	P	1.7
4	☐	625.000	662.156	1995544.86	0.1832	A	3.0
5	☐	1250.000	1282.470	3988351.19	0.3549	A	1.5
6	☐	2500.000	2584.373	8057303.56	0.7152	A	2.2
7	☐	5000.000	4945.293	16163750.45	1.3685	A	0.5
8	☐			8296.14	0.0007	P	22.2

$$y = 2.7672E-004 * x + 7.7860E-006$$

$$R = 0.9997$$

$$DL = 0.01668$$

$$BEC = 0.02814$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	17.3
2	☐			11.11		P	45.8
3	☐			55.56		P	13.9
4	☐			127.78		P	16.8
5	☐			278.90		P	20.6
6	☐			483.35		P	5.0
7	☐			1191.18		P	0.9
8	☐			178.89		P	11.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			2.22		P	86.6
3	☐			8.89		P	94.4
4	☐			17.78		P	39.0
5	☐			40.00		P	14.4
6	☐			75.56		P	37.5
7	☐			241.12		P	15.3
8	☐			42.22		P	31.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	39.0
2	☐			32.22		P	29.8
3	☐			41.11		P	12.4
4	☐			82.22		P	10.2
5	☐			120.00		P	12.1
6	☐			251.12		P	8.0
7	☐			596.69		P	9.1
8	☐			321.12		P	3.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	86.6
2	☐			1.11		P	173.
3	☐			24.45		P	64.4
4	☐			36.67		P	24.1
5	☐			64.44		P	52.3
6	☐			137.78		P	7.4
7	☐			352.23		P	5.5
8	☐			142.23		P	9.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			220.00		P	3.0
2	☐			205.56		P	12.4
3	☐			243.34		P	18.0
4	☐			214.45		P	14.4
5	☐			283.34		P	15.3
6	☐			338.90		P	16.5
7	☐			647.80		P	12.1
8	☐			444.46		P	6.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			217.78		P	24.7
2	☐			210.01		P	16.6
3	☐			210.00		P	14.1
4	☐			230.00		P	4.3
5	☐			265.56		P	17.9
6	☐			321.12		P	8.5
7	☐			452.23		P	5.9
8	☐			363.34		P	5.1

164 Er [No Gas] No available calibration points

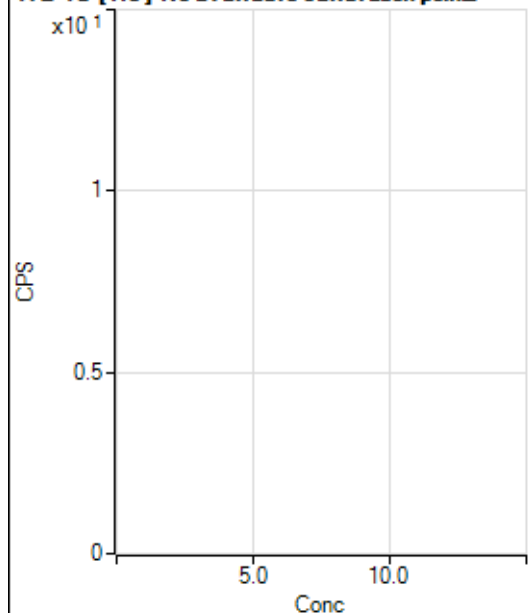
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.22		P	26.2
2	☐			60.00		P	41.9
3	☐			68.89		P	11.2
4	☐			127.78		P	24.8
5	☐			145.56		P	2.6
6	☐			267.78		P	8.8
7	☐			506.68		P	19.5
8	☐			322.23		P	8.0

164 Er [He] No available calibration points

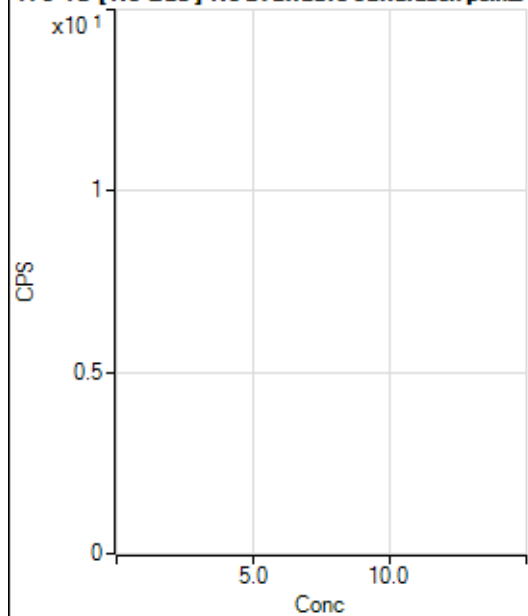
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	22.2
2	☐			40.00		P	30.0
3	☐			26.67		P	21.7
4	☐			41.11		P	40.8
5	☐			60.00		P	30.9
6	☐			96.67		P	6.9
7	☐			210.01		P	12.0
8	☐			152.23		P	3.3

172 Yb [No Gas] No available calibration points

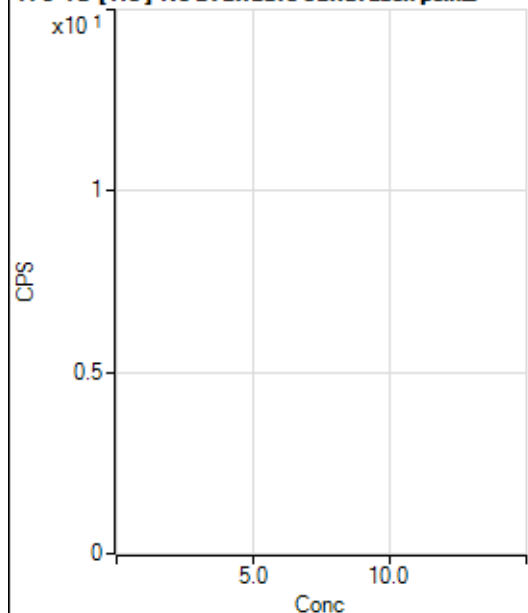
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	15.1
2	☐			70.00		P	33.3
3	☐			74.44		P	15.7
4	☐			100.00		P	29.1
5	☐			138.89		P	17.7
6	☐			150.00		P	5.9
7	☐			275.56		P	10.8
8	☐			435.57		P	11.6

172 Yb [He] No available calibration points

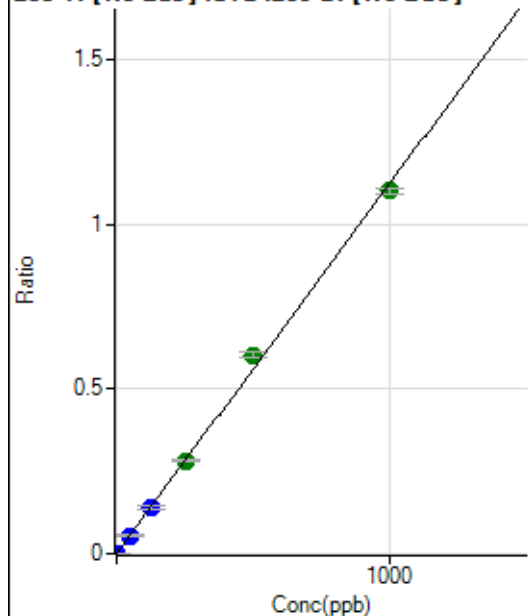
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.55		P	19.5
2	☐			35.56		P	5.4
3	☐			51.11		P	39.8
4	☐			47.78		P	10.7
5	☐			62.22		P	26.4
6	☐			80.00		P	0.0
7	☐			123.33		P	37.2
8	☐			204.45		P	8.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2426.92		P	4.4
2	☐			2369.13		P	6.9
3	☐			3950.63		P	2.4
4	☐			6298.24		P	6.3
5	☐			10726.65		P	0.5
6	☐			18940.33		P	2.1
7	☐			36407.89		P	0.4
8	☐			2281.34		P	5.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16718.48		P	2.9
2	☐			15665.04		P	8.2
3	☐			17338.16		P	2.4
4	☐			18550.91		P	1.6
5	☐			20565.00		P	1.5
6	☐			24611.86		P	0.9
7	☐			32771.82		P	1.1
8	☐			17428.28		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	168.89	0.0000	P	14.6
2	☐	1.000	0.942	7623.43	0.0011	P	1.3
3	☐	50.000	49.119	394443.18	0.0551	P	1.5
4	☐	125.000	124.234	974517.28	0.1393	P	6.9
5	☐	250.000	250.363	2038433.75	0.2808	A	1.7
6	☐	500.000	537.759	4246907.09	0.6030	A	2.6
7	☐	1000.000	981.170	8087141.48	1.1002	A	1.5
8	☐			2232.49	0.0003	P	45.0

$$y = 0.0011 * x + 2.3831E-005$$

$$R = 0.9989$$

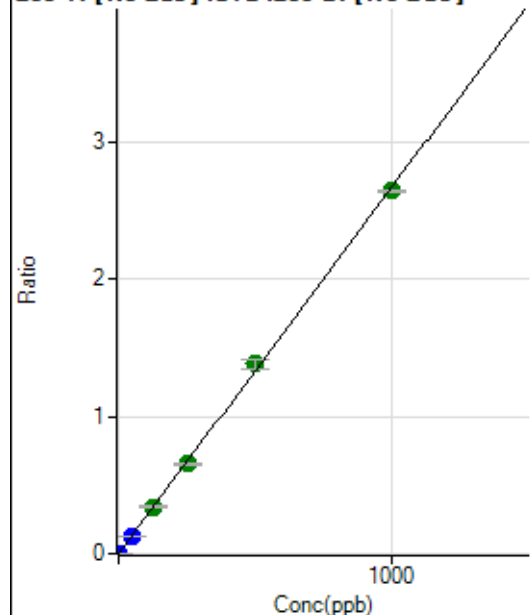
$$DL = 0.009321$$

$$BEC = 0.02125$$

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	407.79	0.0001	P	13.1
2	☐	1.000	0.949	18266.35	0.0026	P	1.9
3	☐	50.000	48.965	935593.01	0.1307	P	1.8
4	☐	125.000	126.304	2360533.38	0.3370	A	3.9
5	☐	250.000	245.478	4755857.98	0.6550	A	1.3
6	☐	500.000	519.458	9756977.49	1.3860	A	5.1
7	☐	1000.000	991.290	19444290.41	2.6449	A	0.5
8	☐			5042.41	0.0008	P	42.6

$$y = 0.0027 * x + 5.7548E-005$$

$$R = 0.9997$$

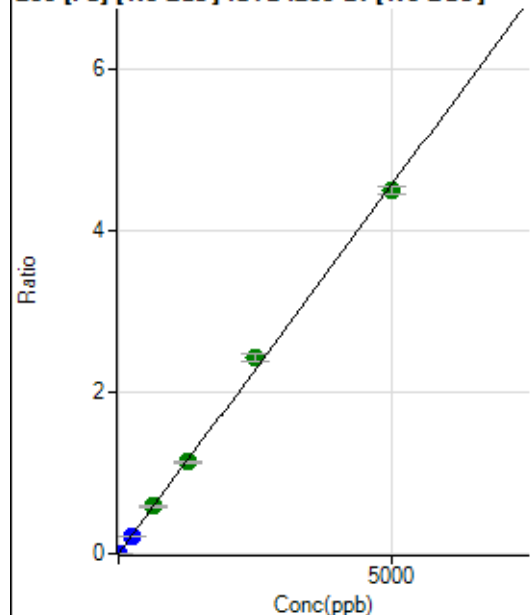
$$DL = 0.00848$$

$$BEC = 0.02157$$

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	298.90	0.0000	P	23.6
2	☐	1.000	0.948	6407.20	0.0009	P	1.0
3	☐	250.000	244.810	1599734.70	0.2235	P	1.4
4	☐	625.000	645.051	4119663.79	0.5887	A	5.9
5	☐	1250.000	1243.034	8237189.74	1.1345	A	1.8
6	☐	2500.000	2654.237	17055014.19	2.4224	A	3.9
7	☐	5000.000	4922.376	33022263.12	4.4925	A	2.0
8	☐			17767.39	0.0027	P	19.9

$$y = 9.1265E-004 * x + 4.2257E-005$$

$$R = 0.9993$$

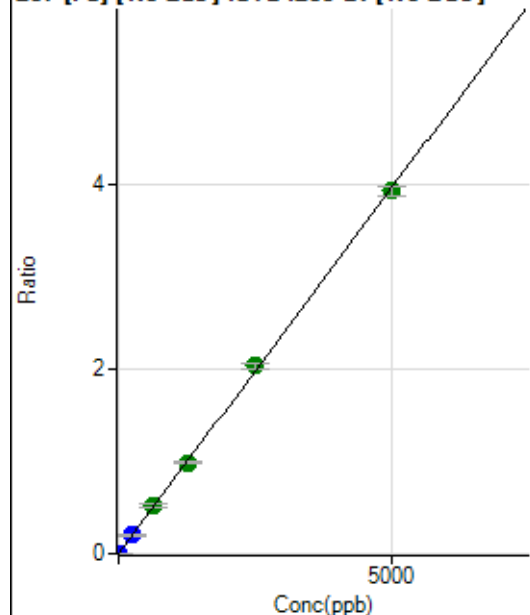
$$DL = 0.03275$$

$$BEC = 0.0463$$

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	260.00	0.0000	P	3.8
2	☐	1.000	0.951	5566.81	0.0008	P	5.1
3	☐	250.000	249.918	1415107.45	0.1977	P	1.3
4	☐	625.000	663.809	3673087.69	0.5250	A	6.2
5	☐	1250.000	1243.977	7143566.98	0.9838	A	0.9
6	☐	2500.000	2568.435	14303505.90	2.0312	A	3.1
7	☐	5000.000	4962.441	28843239.29	3.9245	A	2.7
8	☐			15335.26	0.0023	P	21.0

$$y = 7.9082\text{E-}004 * x + 3.6681\text{E-}005$$

$$R = 0.9998$$

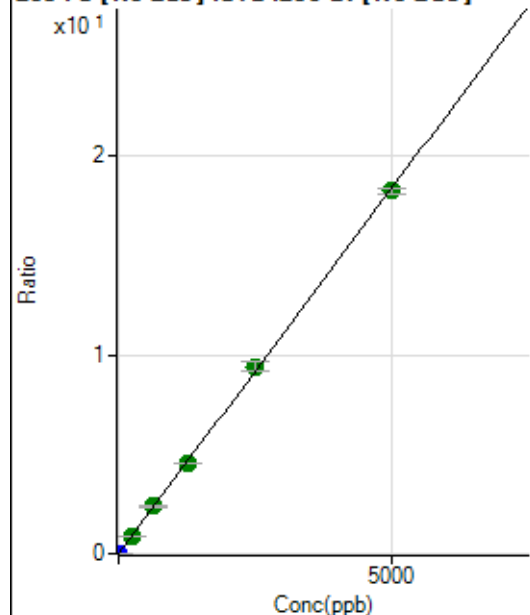
$$DL = 0.005292$$

$$BEC = 0.04638$$

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	1131.14	0.0002	P	9.3
2	☐	1.000	0.940	25527.87	0.0036	P	2.8
3	☐	250.000	247.785	6524758.66	0.9114	A	0.8
4	☐	625.000	647.508	16665599.27	2.3814	A	5.7
5	☐	1250.000	1231.418	32885833.26	4.5288	A	0.4
6	☐	2500.000	2567.030	66461403.46	9.4407	A	4.3
7	☐	5000.000	4968.428	134311922.4	18.2722	A	1.4
8	☐			71241.20	0.0109	P	20.7

$$y = 0.0037 * x + 1.5965\text{E-}004$$

$$R = 0.9998$$

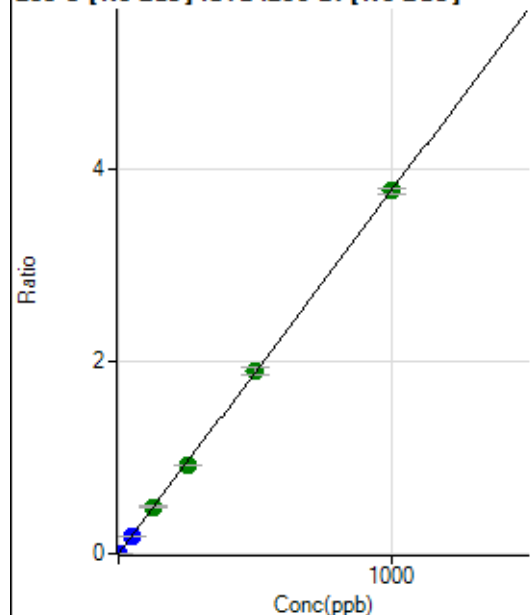
$$DL = 0.01213$$

$$BEC = 0.04341$$

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	73.33	0.0000	P	29.2
2	☐	1.000	0.904	24149.64	0.0034	P	1.6
3	☐	50.000	47.449	1281526.97	0.1790	P	1.1
4	☐	125.000	127.568	3370907.90	0.4813	A	3.8
5	☐	250.000	242.404	6640718.72	0.9145	A	0.6
6	☐	500.000	504.557	13402593.13	1.9036	A	3.7
7	☐	1000.000	999.427	27716447.09	3.7706	A	1.5
8	☐			5423.88	0.0008	P	51.9

$$y = 0.0038 * x + 1.0369E-005$$

$$R = 0.9999$$

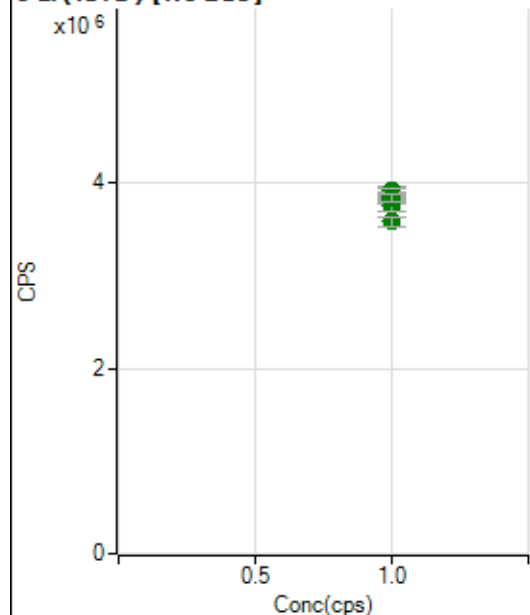
$$DL = 0.002405$$

$$BEC = 0.002748$$

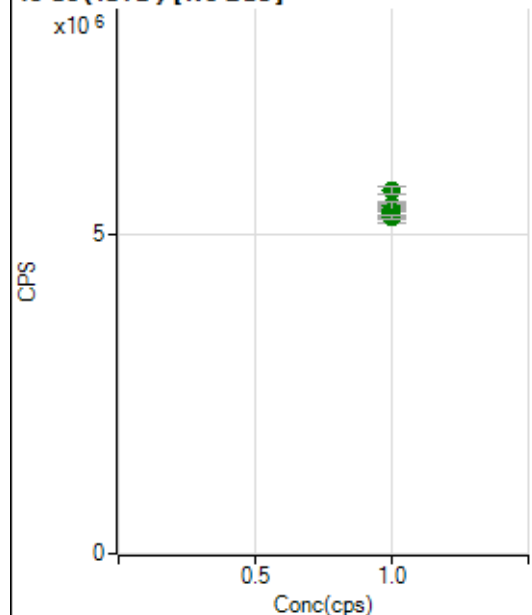
Weight: <None>

Min Conc: 0

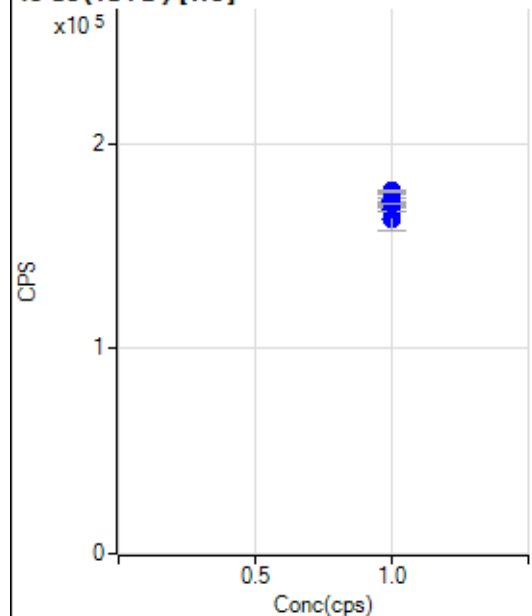
6 Li (ISTD) [No Gas]



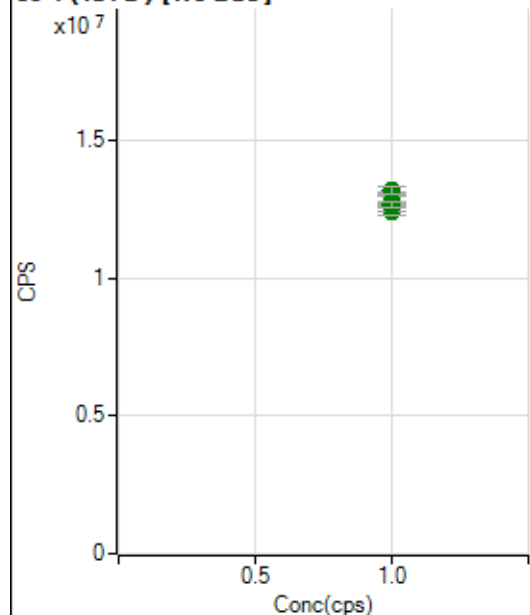
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3799252.11		A	1.0
2	☐	1.000		3907721.83		A	2.5
3	☐	1.000		3912747.32		A	1.7
4	☐	1.000		3758074.83		A	4.1
5	☐	1.000		3849033.59		A	2.8
6	☐	1.000		3824838.39		A	6.5
7	☐	1.000		3837546.41		A	1.8
8	☐	1.000		3581443.34		A	2.8

45 Sc (ISTD) [No Gas]

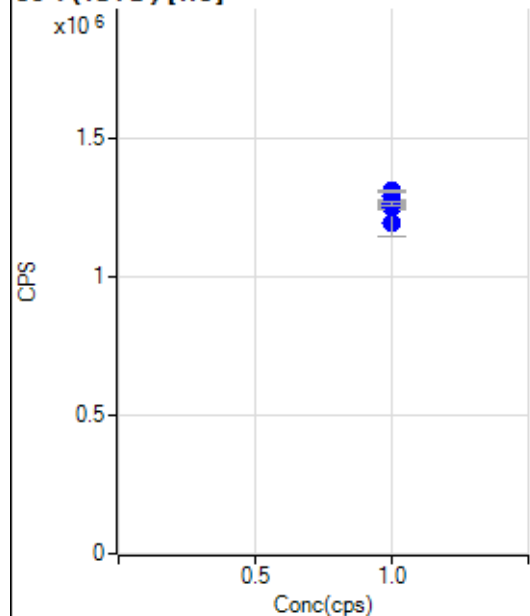
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5259849.37		A	0.4
2	☐	1.000		5318968.29		A	2.2
3	☐	1.000		5385764.16		A	1.7
4	☐	1.000		5300245.90		A	5.1
5	☐	1.000		5451437.28		A	1.3
6	☐	1.000		5362560.06		A	5.2
7	☐	1.000		5671721.44		A	2.1
8	☐	1.000		5267624.68		A	1.3

45 Sc (ISTD) [He]

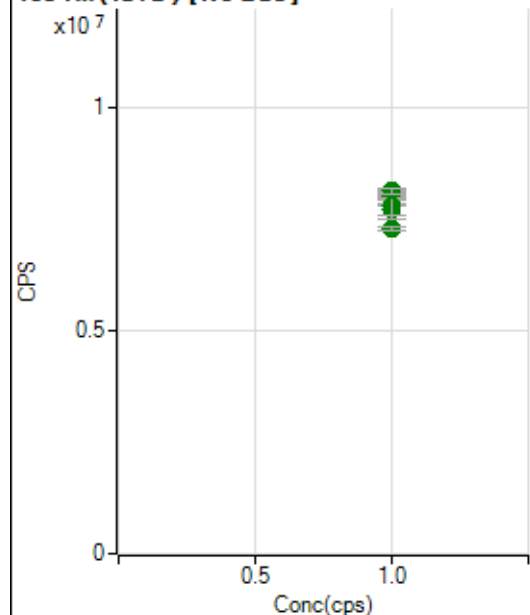
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		170408.05		P	1.8
2	☐	1.000		162809.40		P	7.0
3	☐	1.000		169775.85		P	0.8
4	☐	1.000		168184.29		P	1.8
5	☐	1.000		171812.16		P	1.5
6	☐	1.000		172914.89		P	2.2
7	☐	1.000		176832.16		P	0.7
8	☐	1.000		170596.89		P	0.4

89 Y (ISTD) [No Gas]

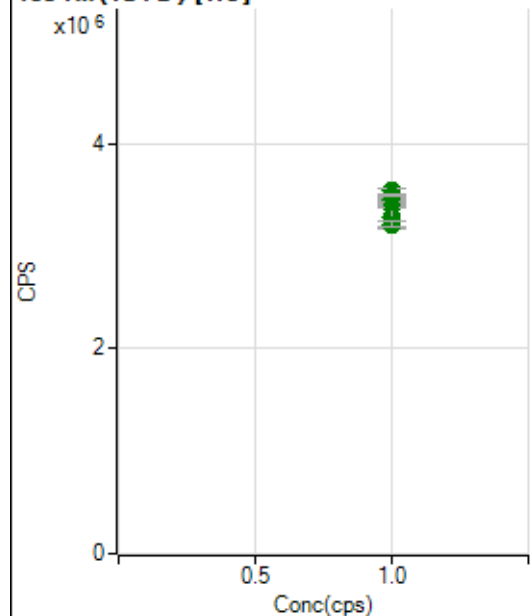
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12479420.23		A	2.9
2	☐	1.000		12606950.23		A	2.1
3	☐	1.000		12715955.78		A	0.7
4	☐	1.000		12672233.98		A	5.7
5	☐	1.000		12994003.42		A	2.8
6	☐	1.000		12731547.31		A	4.8
7	☐	1.000		13190726.05		A	2.1
8	☐	1.000		12665271.48		A	1.5

89 Y (ISTD) [He]

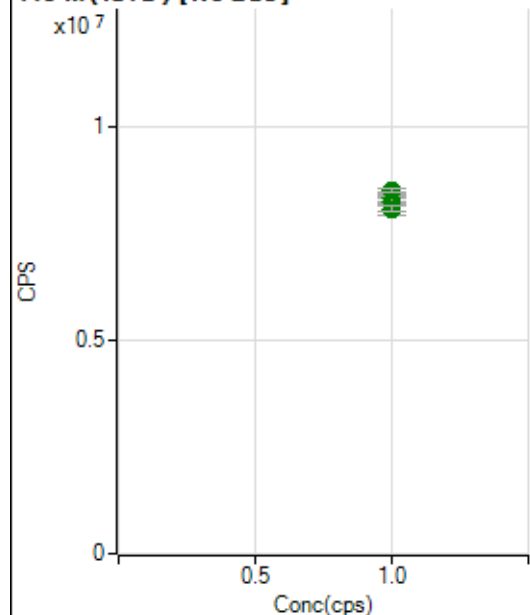
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1255780.52		P	1.1
2	☐	1.000		1196304.05		P	8.0
3	☐	1.000		1259957.65		P	1.9
4	☐	1.000		1253320.88		P	1.3
5	☐	1.000		1270735.20		P	1.0
6	☐	1.000		1293292.00		P	2.4
7	☐	1.000		1312807.52		P	0.3
8	☐	1.000		1264616.26		P	1.0

103 Rh (ISTD) [No Gas]

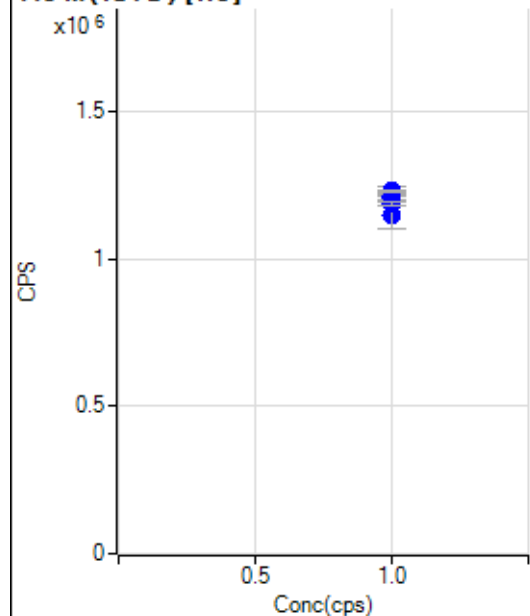
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7931859.88		A	2.7
2	☐	1.000		7995021.13		A	3.7
3	☐	1.000		8024802.94		A	1.8
4	☐	1.000		7737851.55		A	5.4
5	☐	1.000		8061275.92		A	2.0
6	☐	1.000		7828280.58		A	6.1
7	☐	1.000		8144579.53		A	1.7
8	☐	1.000		7308079.06		A	0.9

103 Rh (ISTD) [He]

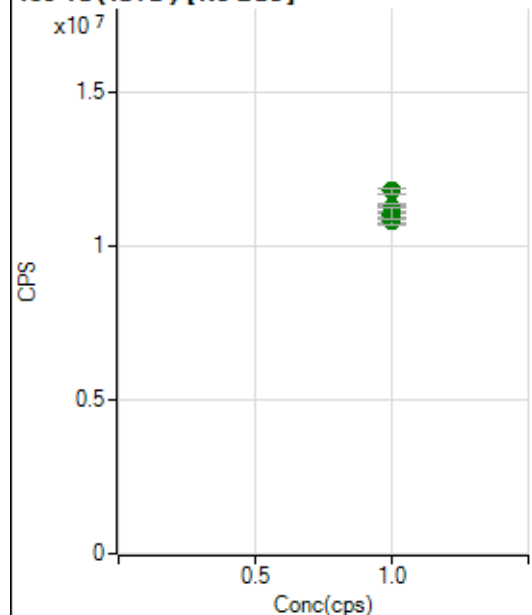
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3404978.21		A	1.3
2	☐	1.000		3288870.40		A	6.8
3	☐	1.000		3484989.36		A	1.2
4	☐	1.000		3429983.91		A	1.3
5	☐	1.000		3457527.41		A	1.5
6	☐	1.000		3540473.25		A	1.5
7	☐	1.000		3497988.04		A	0.3
8	☐	1.000		3211268.81		A	1.7

115 In (ISTD) [No Gas]

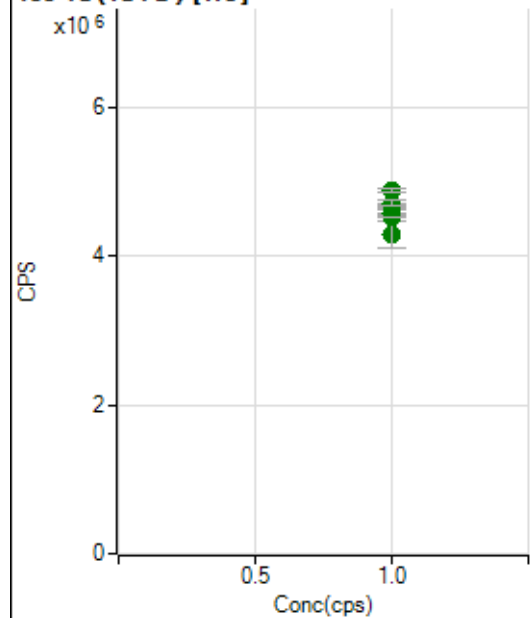
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8314376.44		A	2.8
2	☐	1.000		8256584.99		A	1.7
3	☐	1.000		8339359.99		A	2.5
4	☐	1.000		8077615.86		A	4.2
5	☐	1.000		8475200.63		A	2.3
6	☐	1.000		8244444.67		A	5.3
7	☐	1.000		8494013.82		A	1.1
8	☐	1.000		8069577.41		A	1.8

115 In (ISTD) [He]

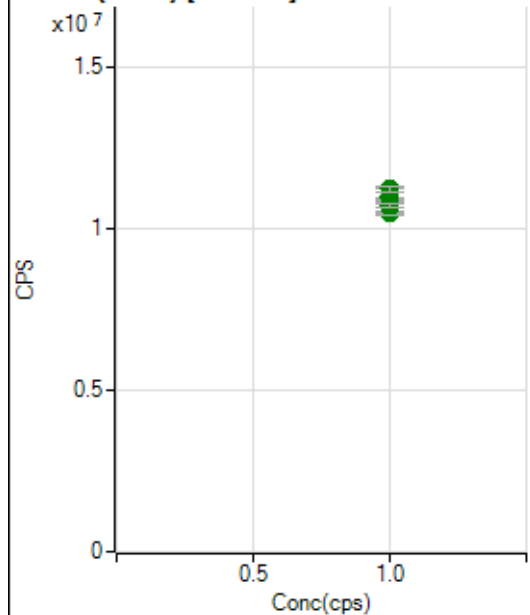
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1211997.11		P	1.1
2	☐	1.000		1149845.68		P	8.0
3	☐	1.000		1223517.61		P	1.4
4	☐	1.000		1211107.87		P	1.2
5	☐	1.000		1214490.00		P	1.5
6	☐	1.000		1232910.80		P	2.2
7	☐	1.000		1231870.21		P	0.2
8	☐	1.000		1190247.87		P	1.1

159 Tb (ISTD) [No Gas]

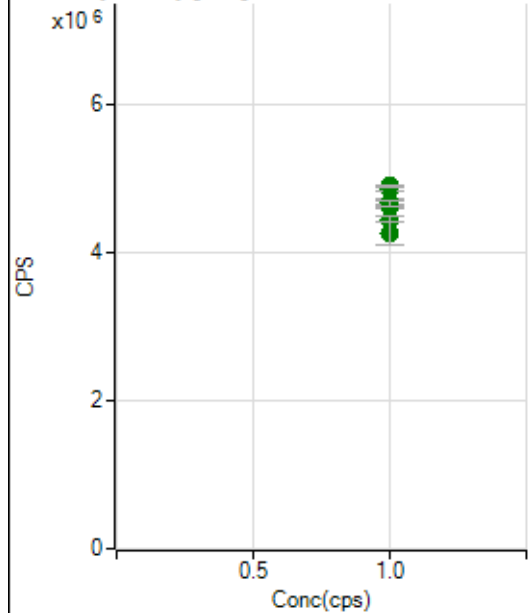
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10843142.48		A	1.0
2	☐	1.000		11011031.23		A	1.0
3	☐	1.000		11262890.94		A	2.4
4	☐	1.000		10897673.03		A	3.5
5	☐	1.000		11239505.95		A	1.7
6	☐	1.000		11269400.25		A	2.4
7	☐	1.000		11811875.66		A	1.3
8	☐	1.000		11066220.25		A	3.6

159 Tb (ISTD) [He]

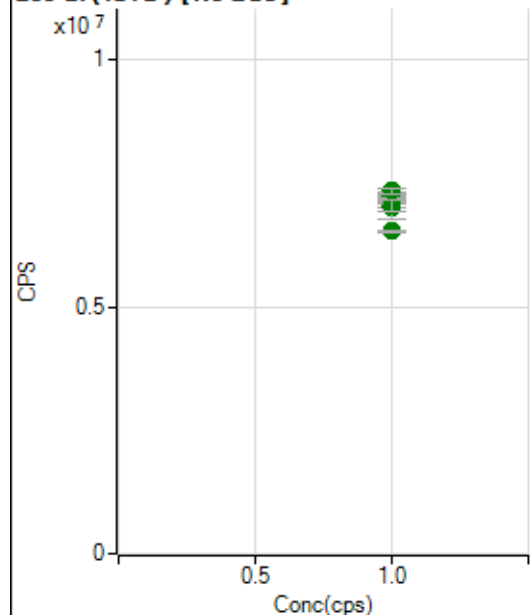
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4552371.67		A	0.6
2	☐	1.000		4291246.88		A	8.1
3	☐	1.000		4568752.74		A	2.2
4	☐	1.000		4579495.11		A	2.3
5	☐	1.000		4669679.51		A	1.0
6	☐	1.000		4709826.35		A	1.8
7	☐	1.000		4876788.54		A	1.1
8	☐	1.000		4521470.83		A	0.3

165 Ho (ISTD) [No Gas]

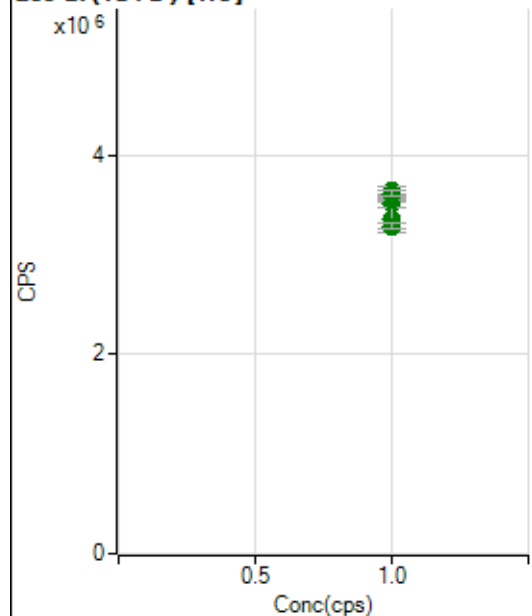
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10491779.29		A	0.1
2	☐	1.000		10542806.23		A	0.6
3	☐	1.000		10901771.51		A	1.0
4	☐	1.000		10669734.29		A	4.7
5	☐	1.000		11048730.67		A	3.3
6	☐	1.000		10943627.89		A	5.4
7	☐	1.000		11238372.75		A	1.2
8	☐	1.000		10715655.46		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4453843.47		A	1.8
2	☐	1.000		4258124.49		A	7.0
3	☐	1.000		4628788.06		A	1.4
4	☐	1.000		4625296.98		A	0.2
5	☐	1.000		4686308.68		A	2.1
6	☐	1.000		4853212.01		A	1.3
7	☐	1.000		4901736.91		A	0.5
8	☐	1.000		4667535.31		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7091162.53		A	1.8
2	☐	1.000		7057220.03		A	1.1
3	☐	1.000		7158682.67		A	1.0
4	☐	1.000		7015244.69		A	6.5
5	☐	1.000		7261650.17		A	1.5
6	☐	1.000		7046574.82		A	3.3
7	☐	1.000		7351711.76		A	1.6
8	☐	1.000		6534949.00		A	0.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3503679.43		A	1.4
2	☐	1.000		3350949.05		A	7.3
3	☐	1.000		3563437.73		A	1.4
4	☐	1.000		3553614.91		A	0.5
5	☐	1.000		3599575.30		A	2.6
6	☐	1.000		3638170.19		A	2.0
7	☐	1.000		3609844.98		A	1.4
8	☐	1.000		3284672.76		A	1.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8071124-MS.b

Acq. Date-Time 2024-07-11 13:38:14

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		10955	109553.07			0.557	5.000
24		85630	856299.69			0.954	5.000
25		11171	111706.35			0.368	5.000
26		13026	130261.49			0.797	5.000
59		79224	792241.45			0.857	5.000
113		8675	86752.96			0.848	5.000
115		113949	1139493.61			1.763	5.000
206		29699	296990.83			1.176	5.000
207		26684	266843.60			1.190	5.000
208		63455	634554.71			1.164	5.000
220		0	3.70			59.367	

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

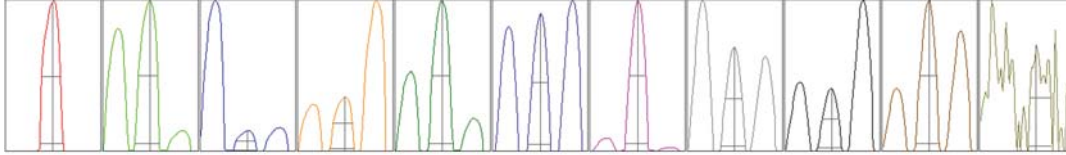
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11052	10978	10908	10906	10933
24	86792	86142	85062	85323	84830
25	11237	11132	11147	11155	11182
26	13188	12956	12918	13040	13029
59	79608	78325	79604	79898	78685
113	8779	8603	8636	8725	8633
115	117203	114508	113194	112358	112485
206	29771	29251	29625	30221	29628
207	26845	26264	26596	27115	26602
208	63656	62405	63327	64467	63423

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	1	0	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20123.31	9.00	8.90 - 9.10	
24	149638.66	24.00	23.90 - 24.10	
25	19806.66	25.00	24.90 - 25.10	
26	23004.05	26.00	25.90 - 26.10	
59	149201.02	59.00	58.90 - 59.10	
113	17923.76	113.05	112.90 - 113.10	
115	230275.95	115.05	114.90 - 115.10	
206	57998.03	206.00	205.90 - 206.10	
207	52567.39	207.00	206.90 - 207.10	
208	126025.16	208.00	207.90 - 208.10	
220	0.70	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.732	0.900	
24	0.60	0.779	0.900	
25	0.61	0.738	0.900	
26	0.60	0.762	0.900	
59	0.56	0.768	0.900	
113	0.50	0.719	0.900	
115	0.52	0.723	0.900	
206	0.53	0.777	0.900	
207	0.52	0.750	0.900	
208	0.52	0.741	0.900	
220	0.65	0.740		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	-6.0 V	Omega Lens	11.8 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	125	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-1.0 mm
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EM

Discriminator	3.8 mV	Analog HV	2135 V	Pulse HV	964 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16280	162800.15			0.965	
89		11731	117312.15			0.947	
205		20945	209447.62			0.957	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16267	16134	16466	16121	16412
89	11697	11638	11901	11640	11780
205	20827	20951	21283	20887	20776

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	11.8 V	Deflect	4.2 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	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-1.0 mm
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EM

Discriminator	3.8 mV	Analog HV	2135 V	Pulse HV	964 V
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