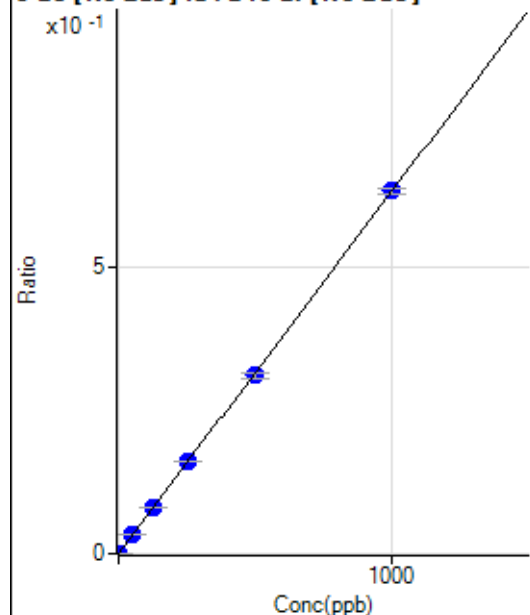


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8080223-MS.b\
 Analysis File: P8080223-MS.batch.bin
 DA Date-Time: 2023-08-02 18:49:54
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-08-02 10:00:58
2	005CALS.d	S02	2023-08-02 10:04:02
3	007CALS.d	S03	2023-08-02 10:10:14
4	008CALS.d	S04	2023-08-02 10:13:19
5	009CALS.d	S05	2023-08-02 10:16:17
6	010CALS.d	S06	2023-08-02 10:19:18
7	011CALS.d	S07	2023-08-02 10:22:16
8	012CALS.d	S08	2023-08-02 10:25:17

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	26.25	0.0000	P	39.5
2	☐	1.000	1.080	1214.48	0.0007	P	3.0
3	☐	50.000	52.615	56775.10	0.0333	P	1.0
4	☐	125.000	128.058	137824.13	0.0811	P	1.7
5	☐	250.000	253.612	266724.99	0.1606	P	0.8
6	☐	500.000	492.037	509871.83	0.3115	P	3.8
7	☐	1000.000	1002.565	973763.85	0.6347	P	1.5
8	☐			118.74	0.0001	P	21.1

$$y = 6.3310E-004 * x + 1.5466E-005$$

$$R = 0.9999$$

$$DL = 0.02892$$

$$BEC = 0.02443$$

Weight: <None>

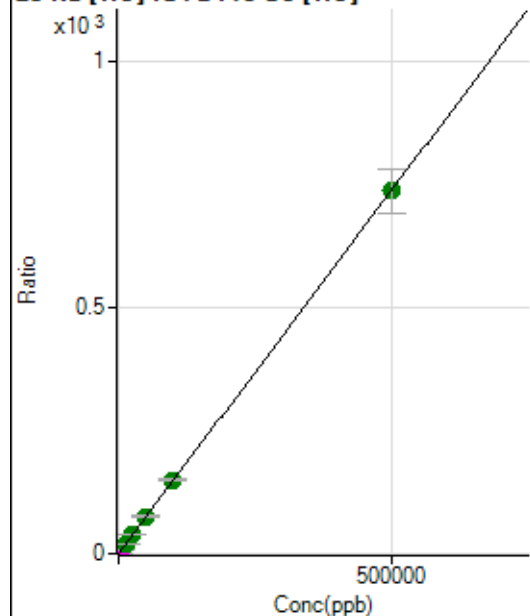
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1977199.09		A	1.8
2	☐			2004031.36		A	1.3
3	☐			2046435.37		A	1.4
4	☐			2057427.50		A	2.2
5	☐			2111341.50		A	2.5
6	☐			2222680.78		A	4.4
7	☐			2205791.30		A	3.6
8	☐			2123968.62		A	4.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			28199.93		P	2.1
2	☐			28926.07		P	0.6
3	☐			30109.06		P	0.8
4	☐			31089.00		P	0.6
5	☐			32419.70		P	0.7
6	☐			36487.40		P	0.8
7	☐			34758.30		P	1.1
8	☐			38367.25		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22214.57	0.1674	P	1.8
2	☐	500.000	502.279	124898.90	0.9085	P	5.0
3	☐	5000.000	5222.828	1038857.69	7.8743	M	1.8
4	☐	12500.000	12946.015	2468955.46	19.2707	A	0.3
5	☐	25000.000	26490.328	4774336.44	39.2568	A	1.9
6	☐	50000.000	51322.544	9140170.69	75.8996	A	1.4
7	☐	100000.00	101799.02	17679041.19	150.3833	A	0.6
8	☐	500000.00	499420.04	88054147.11	737.1180	A	12.4

$$y = 0.0015 * x + 0.1674$$

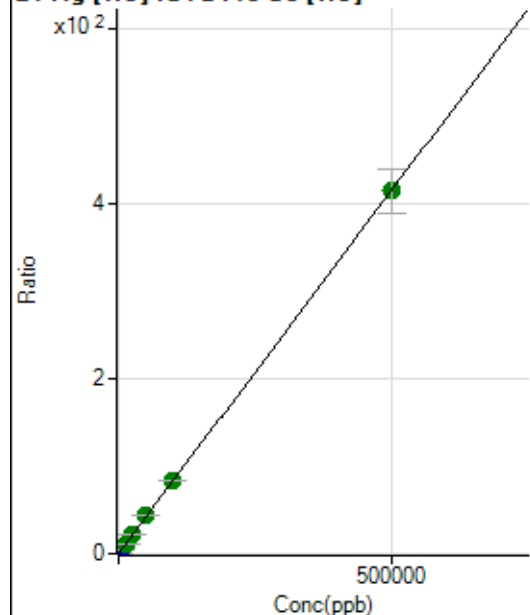
$$R = 1.0000$$

$$DL = 6.131$$

$$BEC = 113.4$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	97.22	0.0007	P	26.2
2	☐	500.000	488.103	55918.99	0.4067	P	4.7
3	☐	5000.000	5310.407	582774.14	4.4174	P	1.3
4	☐	12500.000	13361.273	1423832.28	11.1132	A	0.7
5	☐	25000.000	26829.645	2713781.18	22.3147	A	1.7
6	☐	50000.000	52293.193	5237196.34	43.4925	A	2.0
7	☐	100000.00	101296.99	9903805.17	84.2486	A	1.1
8	☐	500000.00	499395.17	49629318.82	415.3435	A	12.0

$$y = 8.3169\text{E-}004 * x + 7.3270\text{E-}004$$

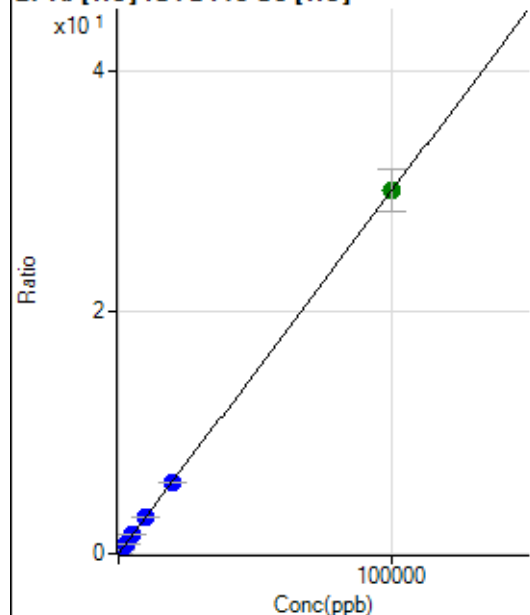
$$R = 1.0000$$

$$DL = 0.6928$$

$$BEC = 0.881$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	95.82	0.0007	P	11.4
2	☐	20.000	20.862	960.75	0.0070	P	5.1
3	☐	1000.000	1012.746	40231.02	0.3050	P	1.9
4	☐	2500.000	2535.119	97661.84	0.7623	P	1.0
5	☐	5000.000	5174.004	189121.41	1.5550	P	1.2
6	☐	10000.000	10006.780	362091.48	3.0068	P	1.5
7	☐	20000.000	19821.525	700078.19	5.9553	P	0.5
8	☐	100000.00	100025.31	3590905.00	30.0491	A	11.8

$$y = 3.0041\text{E-}004 * x + 7.2180\text{E-}004$$

$$R = 1.0000$$

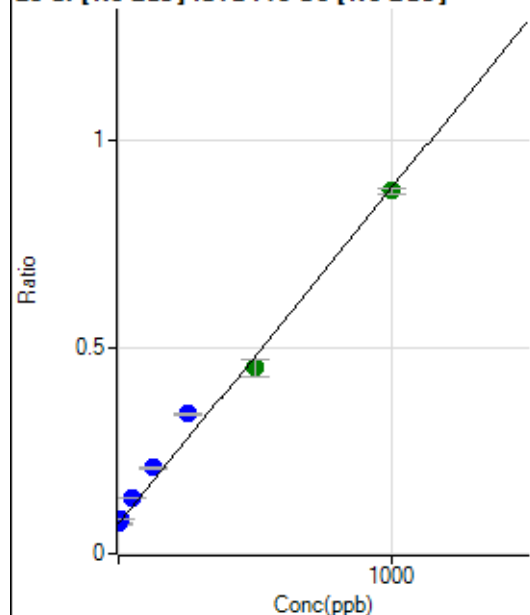
$$DL = 0.8249$$

$$BEC = 2.403$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	235873.66	0.0723	P	2.5
2	☐	10.000	16.073	283281.13	0.0854	P	1.6
3	☐	50.000	75.380	423166.93	0.1336	P	0.7
4	☐	125.000	166.170	660719.09	0.2074	P	1.1
5	☐	250.000	326.921	1063488.93	0.3381	P	2.3
6	☐	500.000	465.475	1399175.26	0.4507	A	9.2
7	☐	1000.000	991.556	2562832.11	0.8783	A	1.7
8	☐			863704.12	0.3213	P	3.0

$$y = 8.1281\text{E-}004 * x + 0.0723$$

R = 0.9954

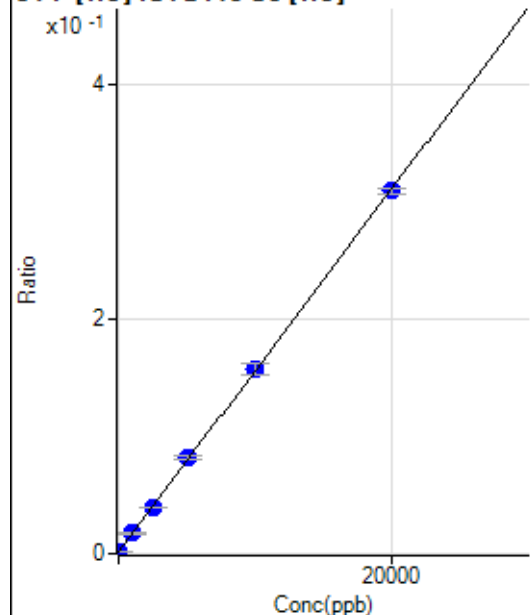
DL = 6.605

BEC = 88.99

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-19.136	144.45	0.0011	P	5.6
2	☐	0.000	19.136	230.56	0.0017	P	22.9
3	☐	1000.000	1030.159	2283.58	0.0173	P	5.8
4	☐	2500.000	2491.989	5114.92	0.0399	P	1.1
5	☐	5000.000	5203.852	9959.28	0.0819	P	3.7
6	☐	10000.000	10084.064	18937.86	0.1573	P	5.3
7	☐	20000.000	19906.498	36357.16	0.3092	P	1.8
8	☐			144.45	0.0012	P	30.2

$$y = 1.5465\text{E-}005 * x + 0.0014$$

R = 0.9999

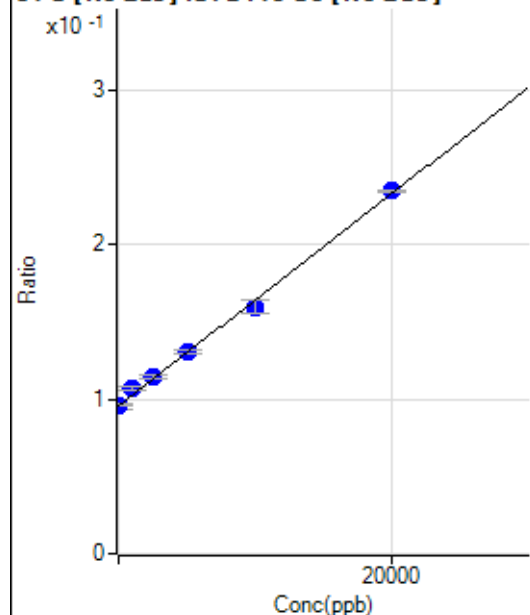
DL = 43.31

BEC = 89.48

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-51.615	310714.26	0.0953	P	3.5
2	☐	0.000	51.615	318507.24	0.0960	P	1.4
3	☐	1000.000	1657.401	338959.61	0.1070	P	2.2
4	☐	2500.000	2699.767	363729.29	0.1142	P	1.7
5	☐	5000.000	5089.727	410799.18	0.1306	P	1.2
6	☐	10000.000	9330.336	496336.65	0.1597	P	4.9
7	☐	20000.000	20254.559	684736.27	0.2347	P	0.7
8	☐			263211.21	0.0990	P	11.7

$$y = 6.8626E-006 * x + 0.0957$$

R = 0.9985

DL = 1034

BEC = 1.394E+04

Weight: <None>

Min Conc: 0

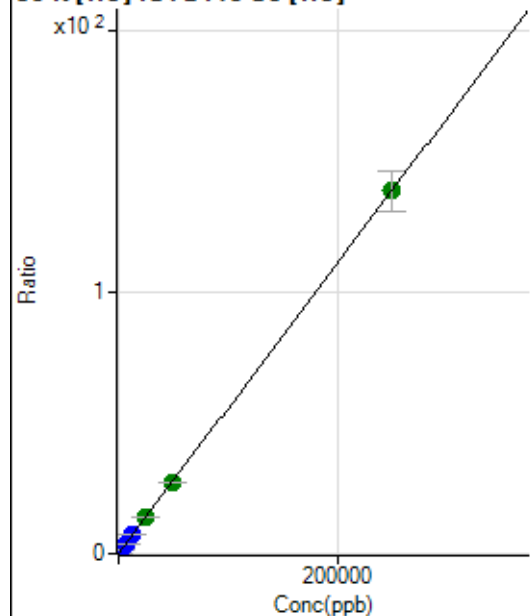
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			67122.87		P	2.1
2	☐			92147.95		P	1.3
3	☐			92743.57		P	0.6
4	☐			88651.31		P	1.6
5	☐			89775.15		P	2.7
6	☐			86659.28		P	3.6
7	☐			88760.75		P	2.4
8	☐			98848.06		P	3.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			619.48		P	2.8
2	☐			838.94		P	4.5
3	☐			969.51		P	17.5
4	☐			880.60		P	8.8
5	☐			777.82		P	1.6
6	☐			688.93		P	11.6
7	☐			780.60		P	4.0
8	☐			947.28		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11021.14	0.0830	P	2.9
2	☐	500.000	480.274	47966.56	0.3488	P	4.0
3	☐	2500.000	2558.311	197726.34	1.4987	P	1.7
4	☐	6250.000	6425.107	466154.13	3.6385	P	0.9
5	☐	12500.000	12944.845	881449.27	7.2464	P	0.6
6	☐	25000.000	24842.172	1665076.85	13.8301	A	2.7
7	☐	50000.000	49026.767	3199145.08	27.2132	A	0.4
8	☐	250000.00	250183.26	16562519.47	138.5280	A	11.1

$$y = 5.5337\text{E-}004 * x + 0.0830$$

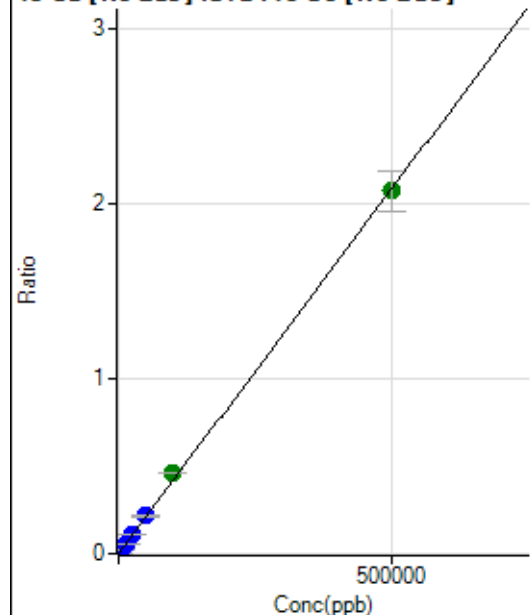
$$R = 1.0000$$

$$DL = 13.03$$

$$BEC = 150.1$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	214.14	0.0001	P	19.0
2	☐	500.000	458.409	6552.35	0.0020	P	0.9
3	☐	5000.000	5615.156	74273.93	0.0234	P	1.7
4	☐	12500.000	13535.970	179778.44	0.0564	P	0.8
5	☐	25000.000	26867.089	352186.41	0.1119	P	1.2
6	☐	50000.000	51850.207	671100.67	0.2160	P	6.3
7	☐	100000.00	110586.35	1344087.34	0.4606	A	0.6
8	☐	500000.00	497572.34	5511936.07	2.0721	A	11.2

$$y = 4.1644\text{E-}006 * x + 6.5730\text{E-}005$$

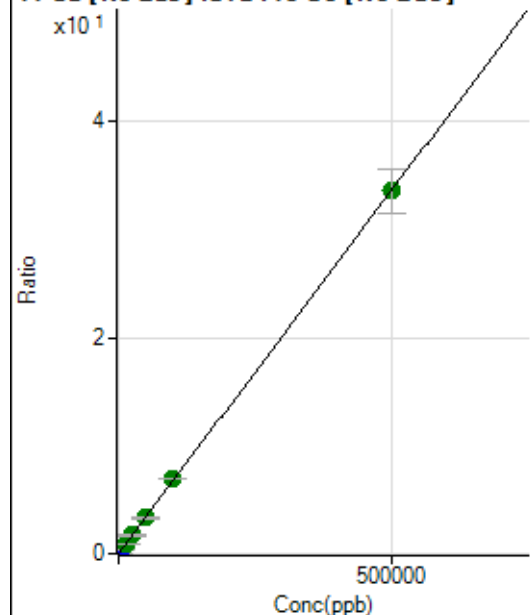
$$R = 0.9998$$

$$DL = 9.012$$

$$BEC = 15.78$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	29758.95	0.0091	P	3.8
2	☐	500.000	451.397	131020.65	0.0395	P	1.0
3	☐	5000.000	5335.492	1165778.75	0.3680	P	0.5
4	☐	12500.000	12891.284	2791422.01	0.8763	A	1.9
5	☐	25000.000	25156.516	5351524.14	1.7014	A	3.5
6	☐	50000.000	48868.628	10243289.92	3.2964	A	6.1
7	☐	100000.00	102823.59	20207843.43	6.9259	A	1.8
8	☐	500000.00	499527.50	89343103.92	33.6113	A	12.1

$$y = 6.7268\text{E-}005 * x + 0.0091$$

$$R = 1.0000$$

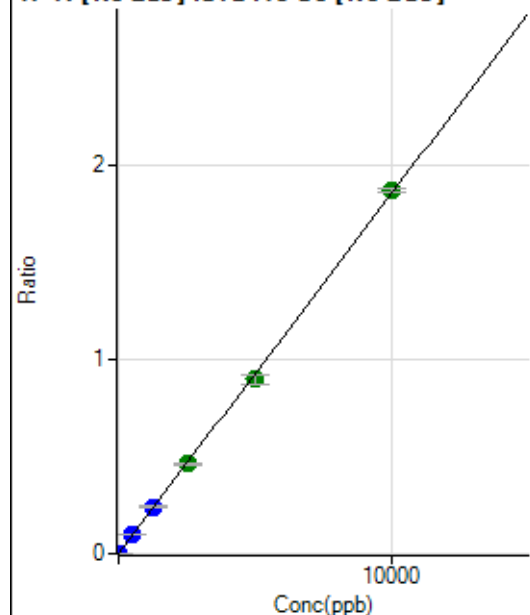
$$DL = 15.35$$

$$BEC = 135.7$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.56	0.0000	P	8.9
2	☐	5.000	5.260	3317.14	0.0010	P	5.3
3	☐	500.000	533.768	313687.85	0.0990	P	1.2
4	☐	1250.000	1301.138	768808.00	0.2413	P	1.1
5	☐	2500.000	2502.924	1460314.91	0.4642	A	1.8
6	☐	5000.000	4833.211	2785598.41	0.8964	A	5.9
7	☐	10000.000	10074.583	5452749.30	1.8685	A	1.2
8	☐			508.36	0.0002	P	17.0

$$y = 1.8546\text{E-}004 * x + 2.4649\text{E-}005$$

$$R = 0.9998$$

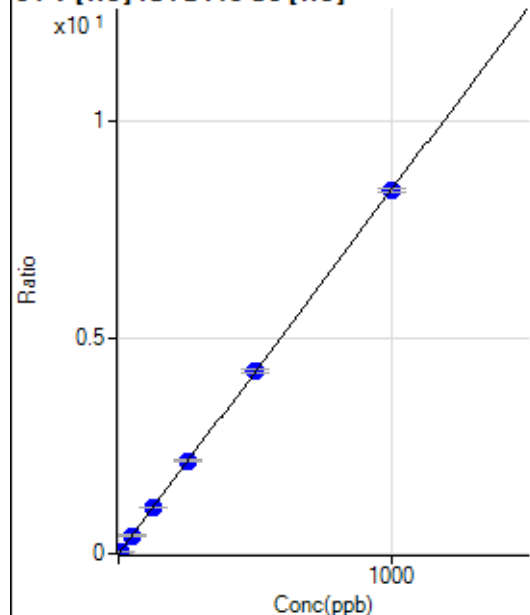
$$DL = 0.03551$$

$$BEC = 0.1329$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10.00	0.0001	P	66.5
2	☐	5.000	4.752	5501.11	0.0400	P	7.4
3	☐	50.000	49.928	55409.10	0.4200	P	1.1
4	☐	125.000	124.976	134675.77	1.0512	P	1.0
5	☐	250.000	255.250	261090.01	2.1469	P	1.8
6	☐	500.000	503.437	509848.66	4.2343	P	2.1
7	☐	1000.000	996.977	985690.38	8.3853	P	1.1
8	☐			230.00	0.0019	P	5.4

$$y = 0.0084 * x + 7.5463\text{E-}005$$

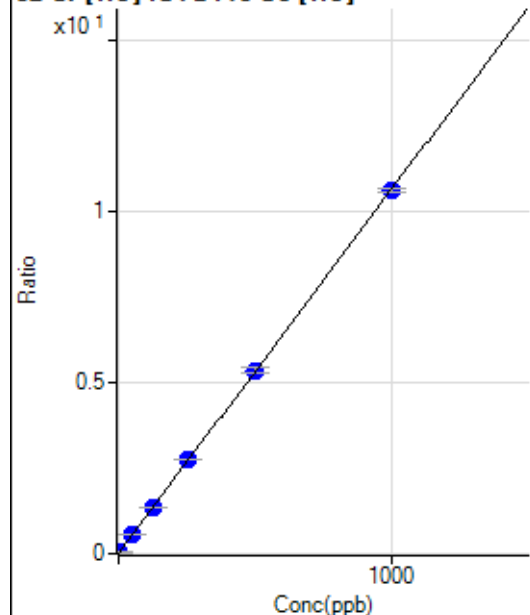
$$R = 1.0000$$

$$DL = 0.01791$$

$$BEC = 0.008972$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1101.16	0.0083	P	7.1
2	☐	2.000	1.934	3968.37	0.0289	P	8.5
3	☐	50.000	50.705	72340.65	0.5483	P	1.8
4	☐	125.000	126.686	173921.45	1.3576	P	1.5
5	☐	250.000	259.222	336805.36	2.7691	P	0.3
6	☐	500.000	503.363	646500.68	5.3693	P	2.3
7	☐	1000.000	995.767	1247636.88	10.6136	P	0.9
8	☐			8308.04	0.0695	P	10.7

$$y = 0.0107 * x + 0.0083$$

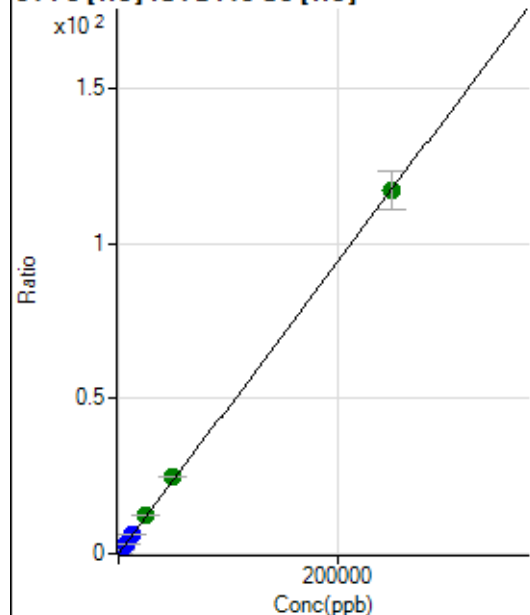
$$R = 0.9999$$

$$DL = 0.1669$$

$$BEC = 0.7792$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	509.28	0.0038	P	7.8
2	☐	50.000	51.673	3859.85	0.0281	P	5.6
3	☐	2500.000	2642.194	164035.09	1.2433	P	0.7
4	☐	6250.000	6599.062	397091.73	3.0994	P	0.3
5	☐	12500.000	13641.264	778800.46	6.4029	P	0.2
6	☐	25000.000	26596.571	1502859.73	12.4802	A	2.3
7	☐	50000.000	52783.366	2911364.13	24.7643	A	1.7
8	☐	250000.00	249216.45	13982717.90	116.9102	A	10.6

$$y = 4.6910E-004 * x + 0.0038$$

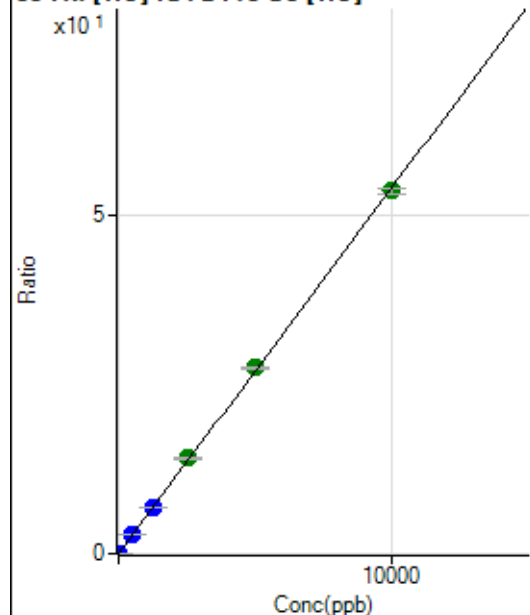
$$R = 0.9999$$

$$DL = 1.914$$

$$BEC = 8.179$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	81.11	0.0006	P	13.9
2	☐	1.000	1.019	842.25	0.0061	P	3.8
3	☐	500.000	506.656	361693.71	2.7416	P	0.2
4	☐	1250.000	1271.892	881635.44	6.8815	P	0.8
5	☐	2500.000	2613.708	1719919.31	14.1406	A	1.8
6	☐	5000.000	5081.518	3310861.69	27.4913	A	1.0
7	☐	10000.000	9927.745	6313047.20	53.7091	A	1.9
8	☐			4694.15	0.0393	P	10.9

$$y = 0.0054 * x + 6.1085E-004$$

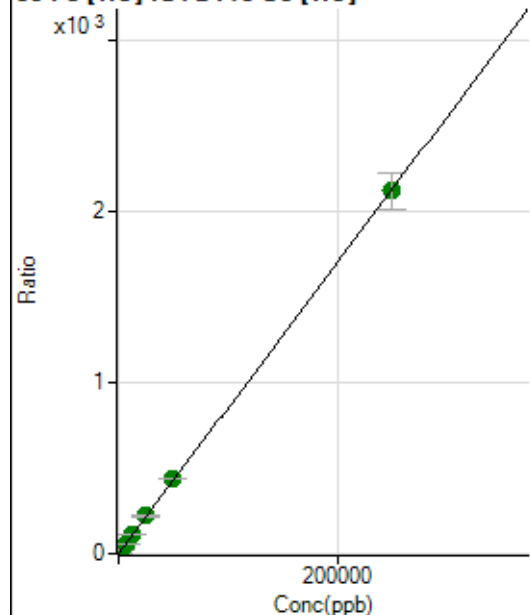
$$R = 0.9999$$

$$DL = 0.04722$$

$$BEC = 0.1129$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2829.95	0.0213	P	4.2
2	☐	50.000	51.100	62553.58	0.4549	P	4.0
3	☐	2500.000	2631.901	2948680.85	22.3521	A	1.9
4	☐	6250.000	6447.204	7011212.54	54.7237	A	0.6
5	☐	12500.000	13383.562	13814050.66	113.5763	A	1.4
6	☐	25000.000	25875.279	26439250.82	219.5643	A	1.7
7	☐	50000.000	51534.580	51400784.02	437.2748	A	1.1
8	☐	250000.00	249555.12	253281379.7	2,117.412	A	10.4

$$y = 0.0085 * x + 0.0213$$

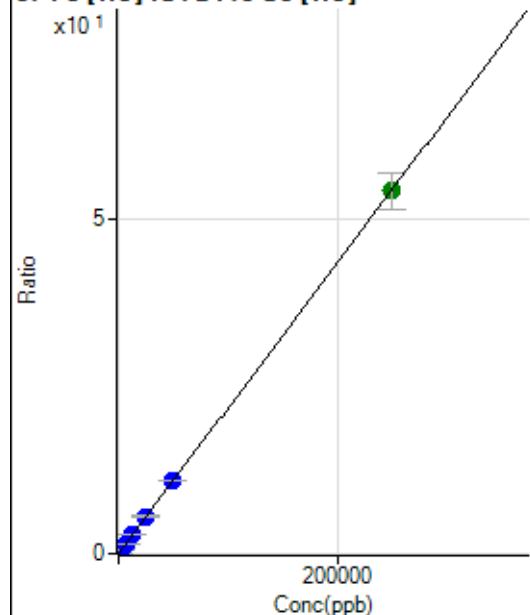
$$R = 1.0000$$

$$DL = 0.3137$$

$$BEC = 2.513$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	96.30	0.0007	P	29.8
2	☐	50.000	53.421	1689.01	0.0123	P	7.5
3	☐	2500.000	2552.053	72962.02	0.5531	P	1.3
4	☐	6250.000	6443.314	178766.52	1.3953	P	0.9
5	☐	12500.000	13179.600	347008.96	2.8533	P	1.3
6	☐	25000.000	25619.237	667699.08	5.5456	P	2.5
7	☐	50000.000	50585.076	1287111.92	10.9491	P	0.6
8	☐	250000.00	249781.72	6467426.59	54.0624	A	10.2

$$y = 2.1644\text{E-}004 * x + 7.2647\text{E-}004$$

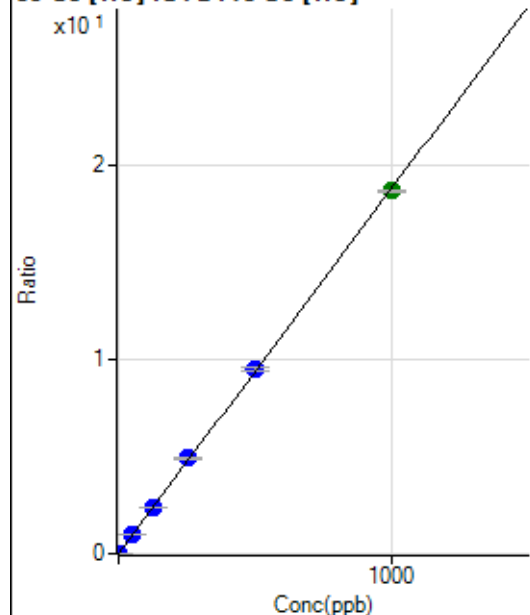
$$R = 1.0000$$

$$DL = 2.999$$

$$BEC = 3.357$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0003	P	35.0
2	☐	1.000	1.006	2639.16	0.0192	P	5.9
3	☐	50.000	51.042	126608.73	0.9597	P	1.5
4	☐	125.000	128.318	309069.71	2.4123	P	0.6
5	☐	250.000	260.818	596316.03	4.9030	P	1.5
6	☐	500.000	505.873	1144974.91	9.5094	P	2.3
7	☐	1000.000	993.892	2196221.04	18.6829	A	0.7
8	☐			5416.63	0.0454	P	13.2

$$y = 0.0188 * x + 2.9232\text{E-}004$$

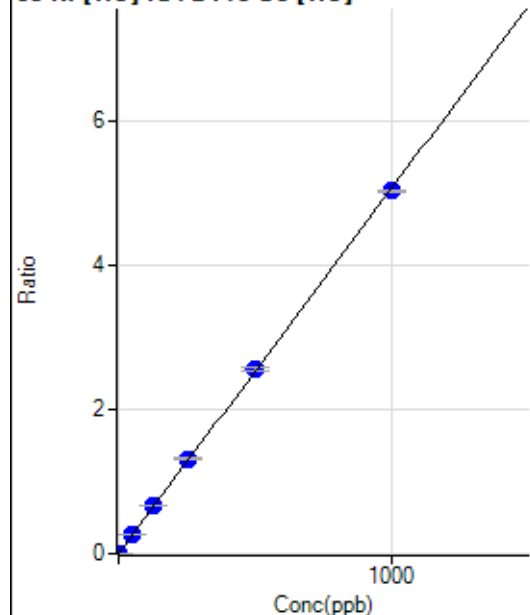
$$R = 0.9999$$

$$DL = 0.01635$$

$$BEC = 0.01555$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.00	0.0006	P	22.9
2	☐	1.000	1.058	822.25	0.0060	P	11.0
3	☐	50.000	51.791	34746.91	0.2634	P	0.5
4	☐	125.000	129.686	84376.05	0.6586	P	0.9
5	☐	250.000	260.487	160821.24	1.3222	P	0.4
6	☐	500.000	506.339	309405.18	2.5696	P	2.0
7	☐	1000.000	993.533	592658.64	5.0414	P	0.6
8	☐			3097.04	0.0258	P	5.4

$$y = 0.0051 * x + 6.0361E-004$$

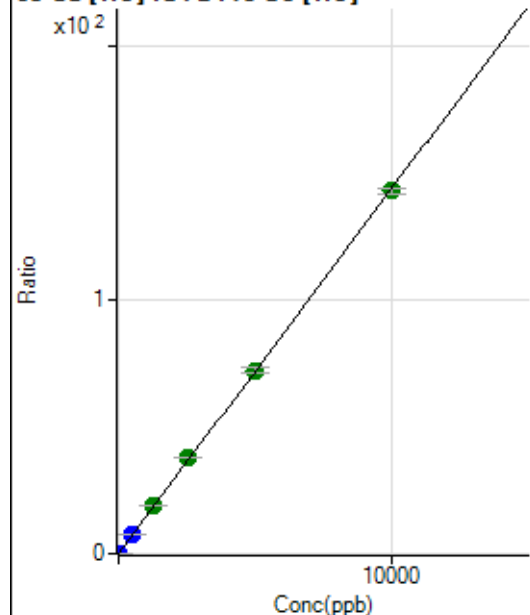
$$R = 0.9999$$

$$DL = 0.08185$$

$$BEC = 0.119$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	611.13	0.0046	P	4.4
2	☐	2.000	1.949	4485.20	0.0326	P	2.7
3	☐	500.000	524.611	994898.14	7.5413	P	0.8
4	☐	1250.000	1298.288	2390208.37	18.6561	A	0.3
5	☐	2500.000	2642.393	4618230.00	37.9658	A	0.8
6	☐	5000.000	5029.963	8700209.24	72.2661	A	2.9
7	☐	10000.000	9942.154	16789615.31	142.8357	A	1.5
8	☐			8221.34	0.0687	P	8.9

$$y = 0.0144 * x + 0.0046$$

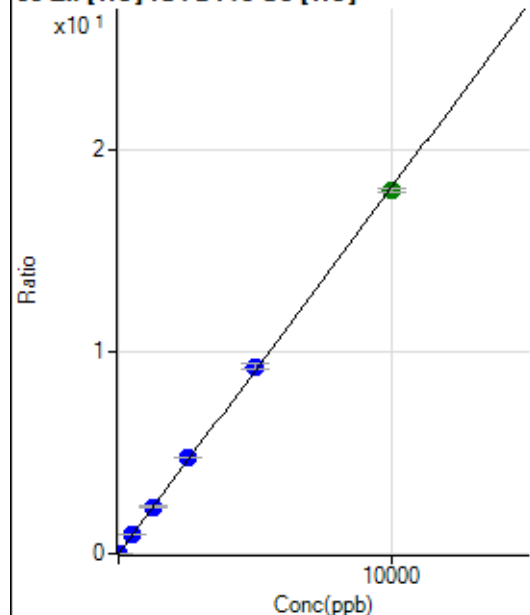
$$R = 0.9999$$

$$DL = 0.04254$$

$$BEC = 0.3205$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	126.67	0.0010	P	12.1
2	☐	2.000	2.386	725.58	0.0053	P	8.0
3	☐	500.000	512.771	122832.78	0.9311	P	1.0
4	☐	1250.000	1284.653	298669.63	2.3312	P	0.8
5	☐	2500.000	2629.626	580279.76	4.7709	P	0.4
6	☐	5000.000	5108.286	1115750.16	9.2670	P	2.5
7	☐	10000.000	9908.480	2112851.22	17.9743	A	1.1
8	☐			4741.95	0.0397	P	13.2

$$y = 0.0018 * x + 9.5345E-004$$

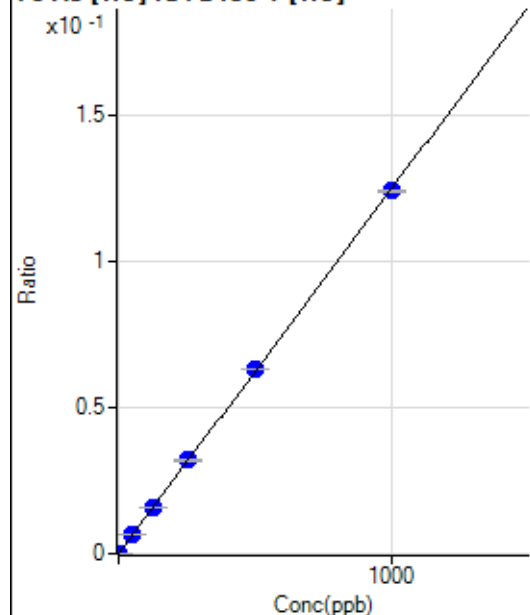
$$R = 0.9998$$

$$DL = 0.1905$$

$$BEC = 0.5256$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.33	0.0000	P	66.6
2	☐	1.000	1.007	141.35	0.0001	P	8.6
3	☐	50.000	51.773	6712.61	0.0065	P	2.0
4	☐	125.000	126.227	16078.40	0.0157	P	0.1
5	☐	250.000	256.171	31419.89	0.0319	P	0.8
6	☐	500.000	507.230	60415.87	0.0632	P	0.5
7	☐	1000.000	994.600	116746.37	0.1240	P	0.8
8	☐			41.67	0.0000	P	12.2

$$y = 1.2468E-004 * x + 4.1041E-006$$

$$R = 0.9999$$

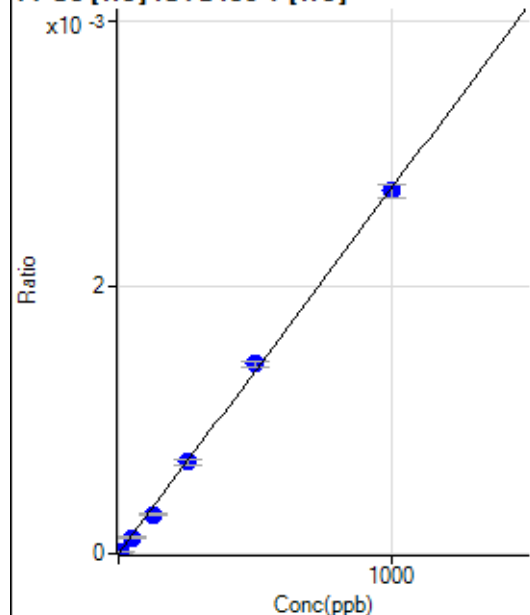
$$DL = 0.06573$$

$$BEC = 0.03292$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	3.726	12.22	0.0000	P	34.5
3	☐	50.000	42.920	123.33	0.0001	P	16.8
4	☐	125.000	106.803	300.01	0.0003	P	3.6
5	☐	250.000	250.765	676.69	0.0007	P	5.8
6	☐	500.000	518.590	1357.86	0.0014	P	3.4
7	☐	1000.000	993.149	2563.60	0.0027	P	3.7
8	☐			8.89	0.0000	P	28.0

$$y = 2.7400\text{E-}006 * x + 1.0550\text{E-}006$$

$$R = 0.9995$$

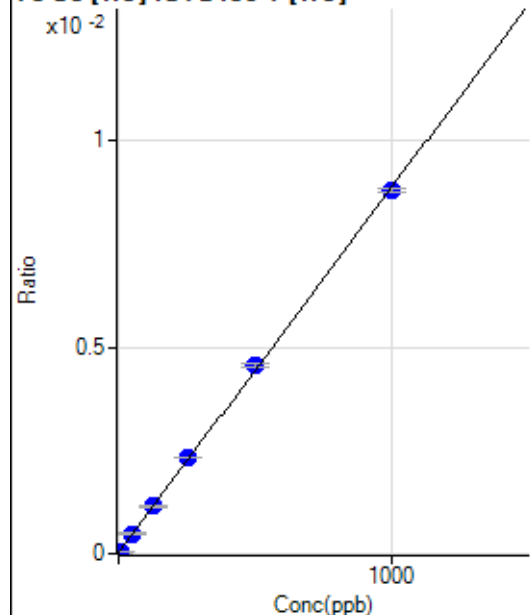
$$DL = 2.001$$

$$BEC = 0.3851$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23.33	0.0000	P	10.1
2	☐	5.000	4.046	63.34	0.0001	P	6.3
3	☐	50.000	52.422	505.06	0.0005	P	2.1
4	☐	125.000	126.707	1167.84	0.0011	P	3.1
5	☐	250.000	260.117	2285.75	0.0023	P	0.6
6	☐	500.000	512.189	4351.45	0.0046	P	2.1
7	☐	1000.000	991.047	8277.27	0.0088	P	1.1
8	☐			52.34	0.0001	P	4.1

$$y = 8.8485\text{E-}006 * x + 2.2121\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.7583$$

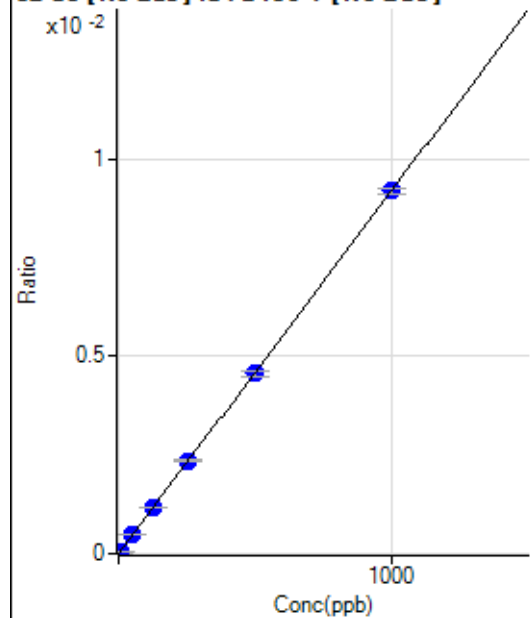
$$BEC = 2.5$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3208.79		P	2.1
2	☐			2872.60		P	0.9
3	☐			2803.13		P	3.8
4	☐			2664.21		P	4.0
5	☐			2583.65		P	12.1
6	☐			2547.53		P	3.0
7	☐			2419.73		P	9.3
8	☐			3319.93		P	9.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.42	0.0000	P	1879.
2	☐	5.000	4.722	376.64	0.0000	P	3.4
3	☐	50.000	52.571	4115.59	0.0005	P	0.7
4	☐	125.000	127.946	9974.15	0.0012	P	0.9
5	☐	250.000	255.089	19604.45	0.0023	P	2.0
6	☐	500.000	496.596	38007.83	0.0046	P	3.8
7	☐	1000.000	999.934	73264.42	0.0092	P	1.6
8	☐			376.21	0.0001	P	7.4

$$y = 9.1867E-006 * x + 5.5424E-008$$

$$R = 1.0000$$

$$DL = 0.3402$$

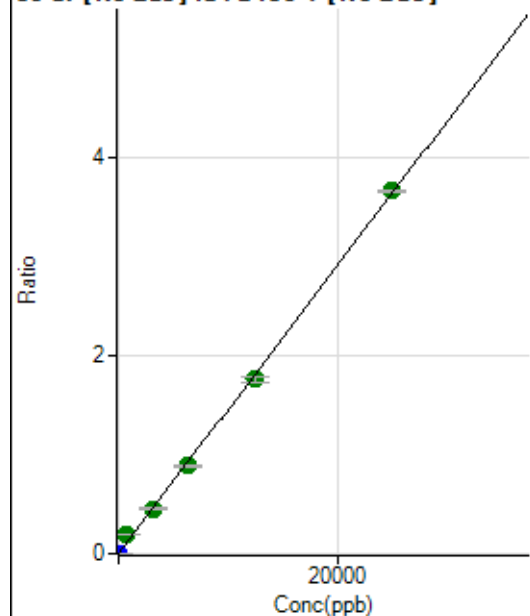
$$BEC = 0.006033$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			244.97		P	5.9
2	☐			244.14		P	4.8
3	☐			236.64		P	10.8
4	☐			240.80		P	7.0
5	☐			236.64		P	11.4
6	☐			232.89		P	7.3
7	☐			235.81		P	11.4
8	☐			219.56		P	4.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	438.91	0.0001	P	17.8
2	☐	1.000	1.015	1716.82	0.0002	P	9.9
3	☐	625.000	1283.242	1585587.87	0.1861	A	1.2
4	☐	3125.000	3131.524	3852106.94	0.4541	A	1.9
5	☐	6250.000	6090.500	7389315.79	0.8830	A	1.4
6	☐	12500.000	12105.182	14623189.04	1.7551	A	2.8
7	☐	25000.000	25220.012	29164296.83	3.6564	A	0.3
8	☐			2836.48	0.0004	P	17.1

$$y = 1.4498E-004 * x + 5.0861E-005$$

$$R = 0.9994$$

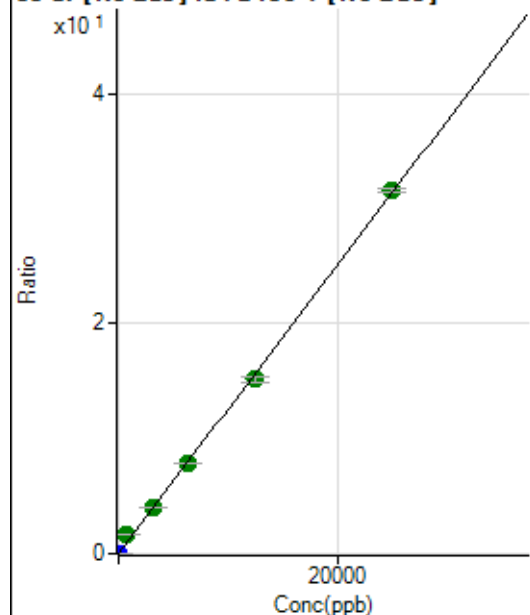
$$DL = 0.1874$$

$$BEC = 0.3508$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	750.04	0.0001	P	6.9
2	☐	1.000	1.006	11694.07	0.0013	P	1.4
3	☐	625.000	1279.836	13674099.96	1.6048	A	0.6
4	☐	3125.000	3180.283	33836914.30	3.9877	A	0.7
5	☐	6250.000	6263.615	65706250.77	7.8537	A	1.4
6	☐	12500.000	12093.013	126336933.3	15.1628	A	2.7
7	☐	25000.000	25176.809	251771358.4	31.5678	A	1.2
8	☐			22421.53	0.0031	P	17.8

$$y = 0.0013 * x + 8.6882E-005$$

$$R = 0.9994$$

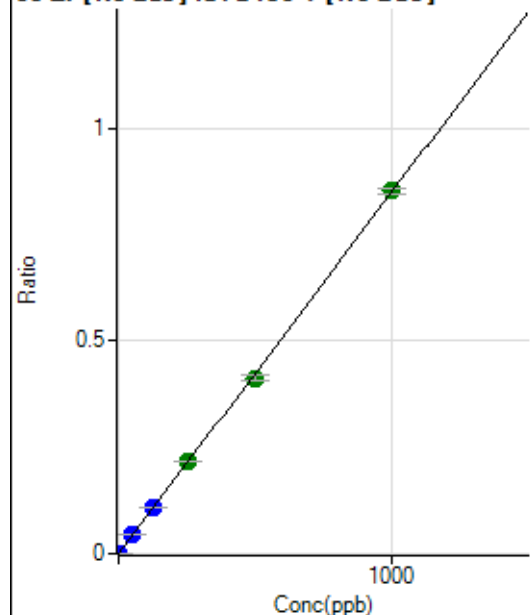
$$DL = 0.0144$$

$$BEC = 0.06929$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	313.90	0.0000	P	24.2
2	☐	1.000	0.978	7516.12	0.0009	P	3.0
3	☐	50.000	52.196	378077.42	0.0444	P	0.8
4	☐	125.000	128.506	926331.23	0.1092	P	1.1
5	☐	250.000	254.502	1809002.04	0.2162	A	0.5
6	☐	500.000	486.987	3446185.13	0.4136	A	3.5
7	☐	1000.000	1004.833	6806604.93	0.8535	A	1.4
8	☐			2942.05	0.0004	P	6.5

$$y = 8.4932E-004 * x + 3.6286E-005$$

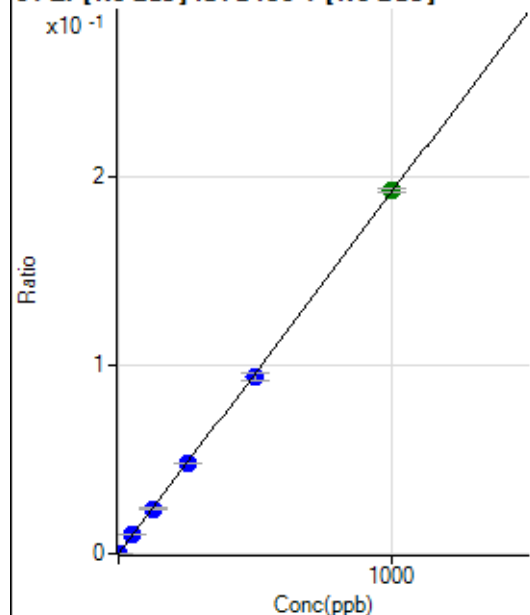
$$R = 0.9999$$

$$DL = 0.03104$$

$$BEC = 0.04272$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	34.0
2	☐	1.000	0.897	1539.02	0.0002	P	1.4
3	☐	50.000	51.173	83534.12	0.0098	P	0.9
4	☐	125.000	124.826	202776.10	0.0239	P	2.5
5	☐	250.000	250.442	401228.66	0.0480	P	0.4
6	☐	500.000	491.191	783425.67	0.0940	P	4.3
7	☐	1000.000	1004.257	1533464.30	0.1923	A	1.0
8	☐			619.47	0.0001	P	13.7

$$y = 1.9144\text{E-}004 * x + 5.7968\text{E-}006$$

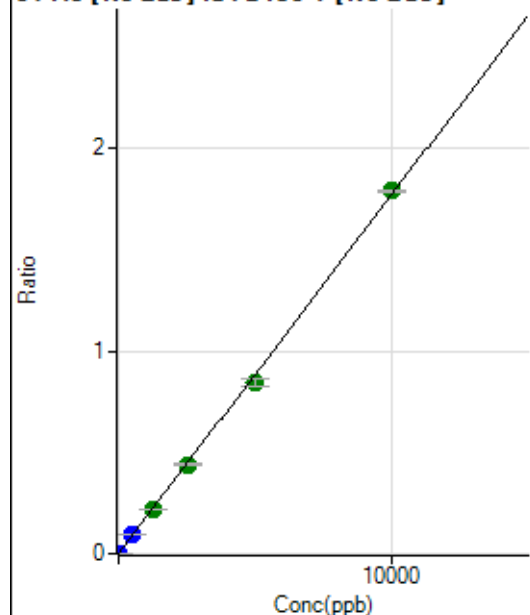
$$R = 0.9999$$

$$DL = 0.03089$$

$$BEC = 0.03028$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	102.78	0.0000	P	21.5
2	☐	5.000	5.829	9050.37	0.0010	P	0.3
3	☐	500.000	516.203	778546.07	0.0914	P	0.3
4	☐	1250.000	1239.480	1861662.06	0.2194	A	1.0
5	☐	2500.000	2486.200	3680875.82	0.4400	A	2.3
6	☐	5000.000	4787.674	7058586.62	0.8473	A	4.5
7	☐	10000.000	10110.118	14271702.75	1.7893	A	0.4
8	☐			4739.82	0.0007	P	20.3

$$y = 1.7698\text{E-}004 * x + 1.1920\text{E-}005$$

$$R = 0.9997$$

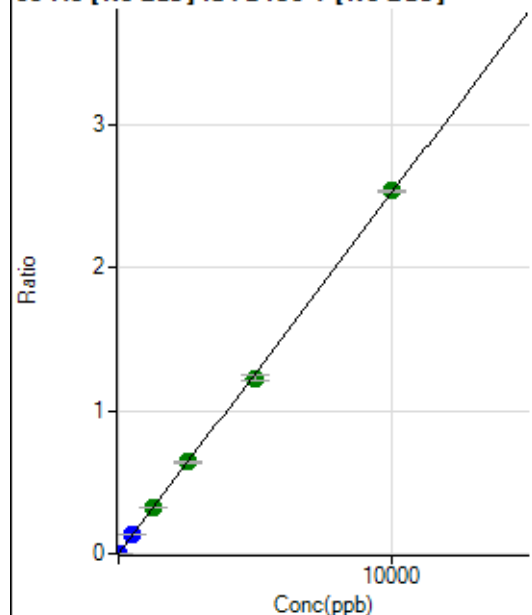
$$DL = 0.04335$$

$$BEC = 0.06735$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	46.8
2	☐	5.000	5.288	11619.02	0.0013	P	2.3
3	☐	500.000	519.307	1118378.55	0.1313	P	1.3
4	☐	1250.000	1273.820	2731746.26	0.3220	A	2.1
5	☐	2500.000	2531.817	5352587.14	0.6399	A	2.4
6	☐	5000.000	4871.833	10259383.13	1.2313	A	3.8
7	☐	10000.000	10052.186	20264482.05	2.5406	A	0.8
8	☐			6676.79	0.0009	P	20.2

$$y = 2.5274\text{E-}004 * x + 3.2273\text{E-}006$$

$$R = 0.9999$$

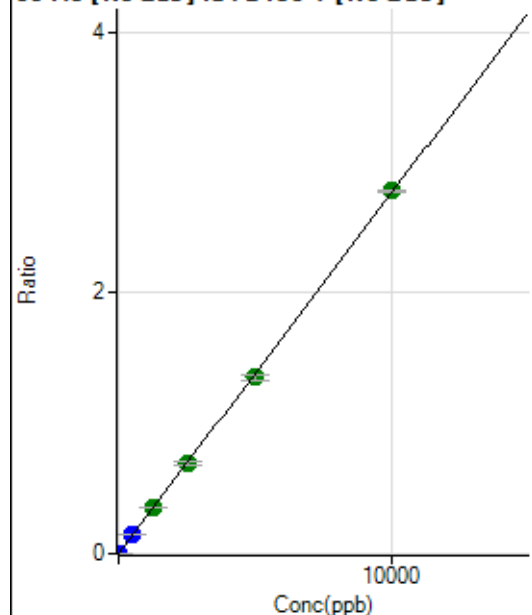
$$DL = 0.01793$$

$$BEC = 0.01277$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.01	0.0000	P	18.5
2	☐	5.000	5.060	12216.82	0.0014	P	1.1
3	☐	500.000	517.632	1220004.51	0.1432	P	1.1
4	☐	1250.000	1260.863	2959337.24	0.3488	A	0.9
5	☐	2500.000	2509.039	5805796.57	0.6940	A	2.9
6	☐	5000.000	4882.761	11252503.81	1.3506	A	3.4
7	☐	10000.000	10054.120	22181250.84	2.7810	A	0.3
8	☐			7463.38	0.0010	P	28.9

$$y = 2.7660\text{E-}004 * x + 8.6760\text{E-}006$$

$$R = 0.9999$$

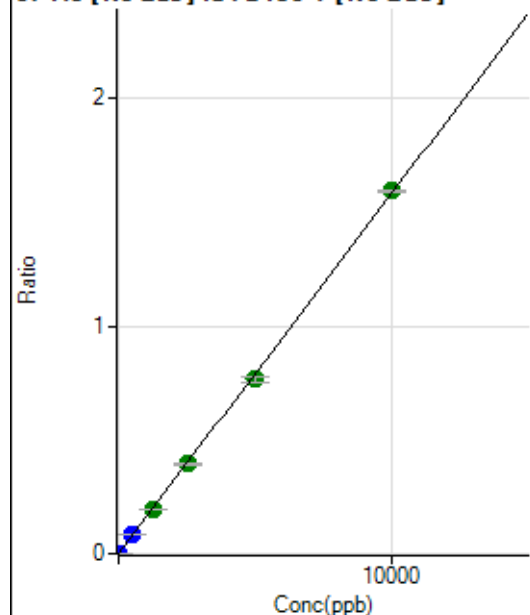
$$DL = 0.01738$$

$$BEC = 0.03137$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	132.0
2	☐	5.000	5.015	6893.56	0.0008	P	3.8
3	☐	500.000	521.652	702837.17	0.0825	P	1.1
4	☐	1250.000	1235.024	1657021.93	0.1953	A	1.6
5	☐	2500.000	2484.115	3285878.22	0.3928	A	2.2
6	☐	5000.000	4857.283	6399129.14	0.7681	A	3.3
7	☐	10000.000	10076.119	12707537.79	1.5933	A	0.8
8	☐			4092.39	0.0006	P	22.0

$$y = 1.5812E-004 * x + 1.9340E-006$$

$$R = 0.9998$$

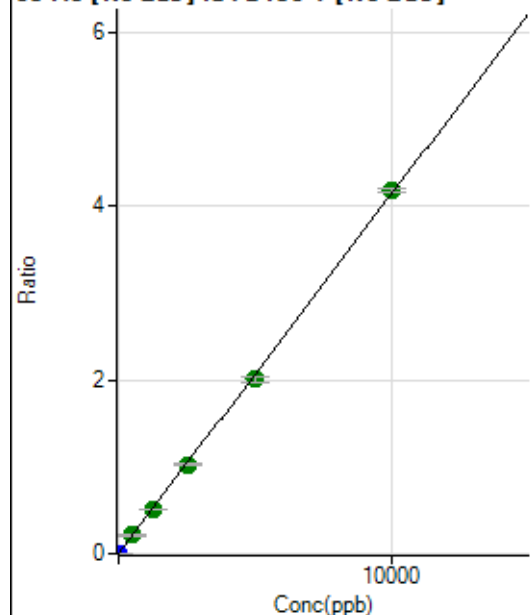
$$DL = 0.04843$$

$$BEC = 0.01223$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.55	0.0000	P	14.9
2	☐	5.000	5.037	18128.93	0.0021	P	1.9
3	☐	500.000	510.125	1800378.58	0.2113	A	2.3
4	☐	1250.000	1233.615	4336633.17	0.5110	A	1.1
5	☐	2500.000	2484.697	8609957.83	1.0293	A	2.3
6	☐	5000.000	4838.348	16698550.20	2.0043	A	3.6
7	☐	10000.000	10086.193	33323579.91	4.1782	A	1.1
8	☐			10793.39	0.0015	P	23.5

$$y = 4.1425E-004 * x + 3.5349E-006$$

$$R = 0.9998$$

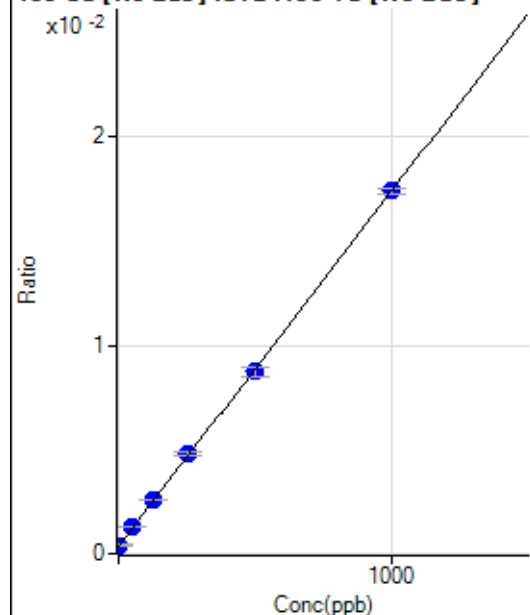
$$DL = 0.003824$$

$$BEC = 0.008533$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2380.83	0.0004	P	8.0
2	☐	1.000	2.743	2711.47	0.0004	P	8.1
3	☐	50.000	52.683	8294.37	0.0013	P	1.0
4	☐	125.000	129.804	17241.74	0.0026	P	1.5
5	☐	250.000	260.898	32018.38	0.0048	P	3.3
6	☐	500.000	491.445	59855.32	0.0087	P	4.7
7	☐	1000.000	1000.817	113815.84	0.0174	P	1.9
8	☐			2125.21	0.0004	P	6.1

$$y = 1.7050\text{E-}005 * x + 3.5633\text{E-}004$$

R = 0.9999

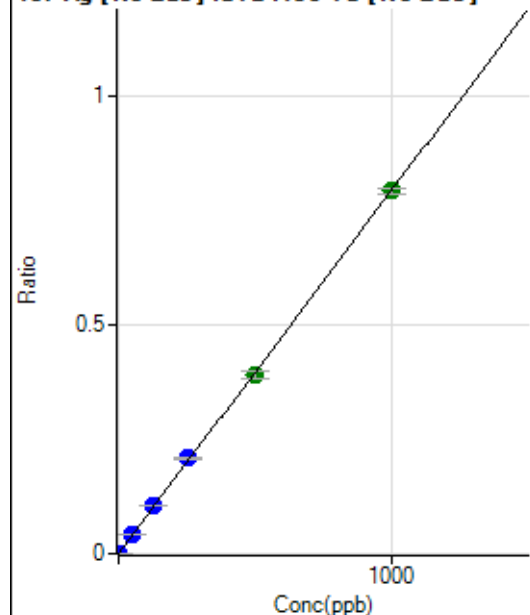
DL = 5.036

BEC = 20.9

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.34	0.0000	P	28.1
2	☐	1.000	1.067	5751.35	0.0009	P	3.2
3	☐	50.000	54.926	288600.83	0.0437	P	1.2
4	☐	125.000	133.847	713749.53	0.1064	P	0.7
5	☐	250.000	263.625	1396495.62	0.2095	P	1.8
6	☐	500.000	492.486	2681339.56	0.3914	A	5.0
7	☐	1000.000	998.999	5186958.62	0.7939	A	1.4
8	☐			883.39	0.0001	P	13.8

$$y = 7.9464\text{E-}004 * x + 8.7236\text{E-}006$$

R = 0.9998

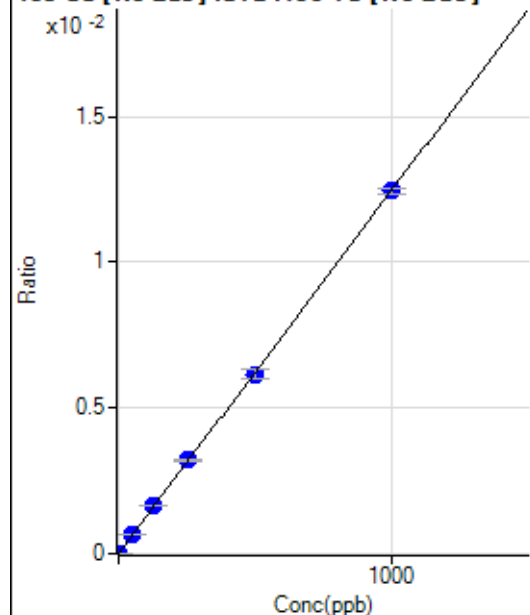
DL = 0.00924

BEC = 0.01098

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.72	0.0000	P	107.0
2	☐	1.000	0.829	79.17	0.0000	P	6.1
3	☐	50.000	52.814	4359.08	0.0007	P	3.2
4	☐	125.000	131.835	11032.32	0.0016	P	0.9
5	☐	250.000	258.936	21518.29	0.0032	P	2.0
6	☐	500.000	494.900	42253.72	0.0062	P	5.3
7	☐	1000.000	999.321	81360.42	0.0125	P	1.7
8	☐			118.06	0.0000	P	23.7

$$y = 1.2460\text{E-}005 * x + 1.4556\text{E-}006$$

$$R = 0.9999$$

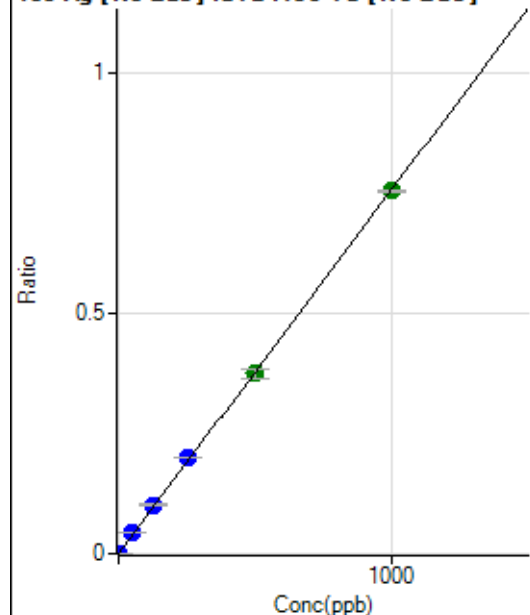
$$DL = 0.3749$$

$$BEC = 0.1168$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	58.2
2	☐	1.000	1.110	5665.21	0.0008	P	5.3
3	☐	50.000	56.465	282380.83	0.0427	P	1.0
4	☐	125.000	134.754	683924.21	0.1019	P	0.2
5	☐	250.000	264.240	1332139.78	0.1999	P	1.9
6	☐	500.000	495.016	2565166.59	0.3744	A	5.0
7	☐	1000.000	997.389	4929471.42	0.7544	A	0.8
8	☐			875.05	0.0001	P	10.0

$$y = 7.5635\text{E-}004 * x + 3.7558\text{E-}006$$

$$R = 0.9998$$

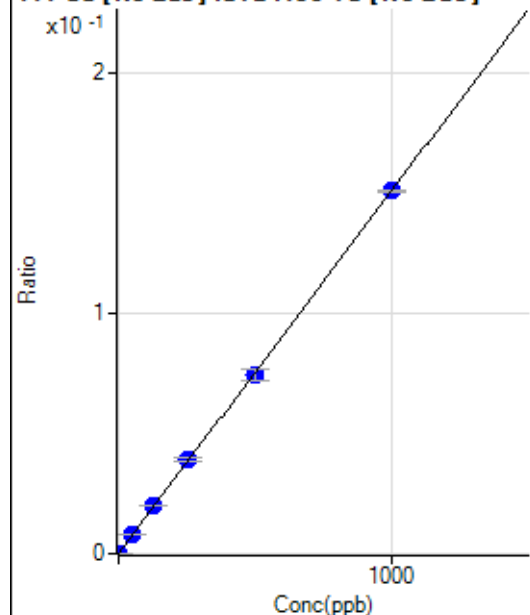
$$DL = 0.008677$$

$$BEC = 0.004966$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	474.91	0.0001	P	6.2
2	☐	1.000	1.117	1611.94	0.0002	P	6.4
3	☐	50.000	54.588	54986.50	0.0083	P	1.5
4	☐	125.000	132.432	134741.49	0.0201	P	1.9
5	☐	250.000	259.723	261976.30	0.0393	P	3.6
6	☐	500.000	492.512	510159.18	0.0745	P	5.9
7	☐	1000.000	1000.155	987828.95	0.1512	P	0.7
8	☐			766.03	0.0001	P	8.7

$$y = 1.5107\text{E-}004 * x + 7.1080\text{E-}005$$

$$R = 0.9999$$

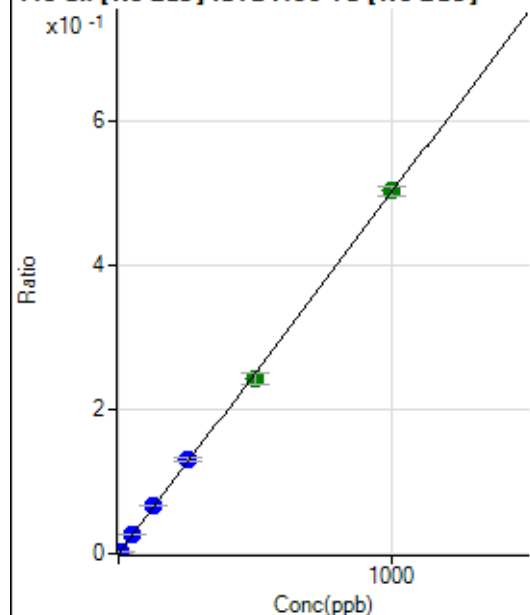
$$DL = 0.08738$$

$$BEC = 0.4705$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	472.25	0.0001	P	16.9
2	☐	5.000	5.669	19581.35	0.0029	P	2.4
3	☐	50.000	55.203	183573.40	0.0278	P	0.6
4	☐	125.000	133.964	451542.94	0.0673	P	1.7
5	☐	250.000	260.916	873043.76	0.1310	P	2.3
6	☐	500.000	483.556	1662193.53	0.2427	A	6.3
7	☐	1000.000	1004.109	3292658.71	0.5039	A	2.4
8	☐			2189.13	0.0004	P	21.2

$$y = 5.0173\text{E-}004 * x + 7.0778\text{E-}005$$

$$R = 0.9997$$

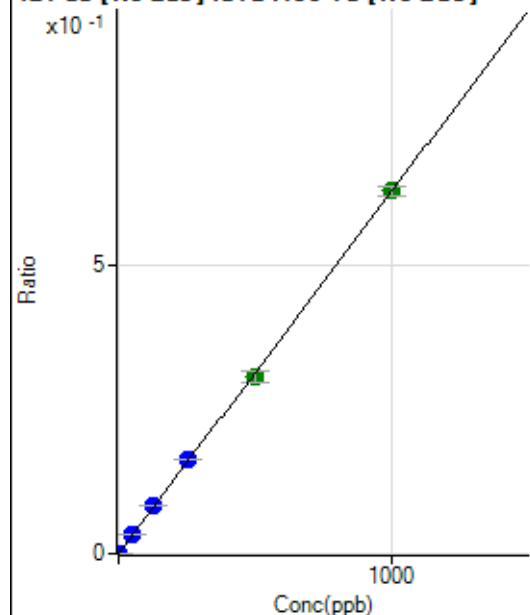
$$DL = 0.0716$$

$$BEC = 0.1411$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	51.4
2	☐	2.000	2.103	8864.23	0.0013	P	0.8
3	☐	50.000	54.176	224220.97	0.0339	P	0.7
4	☐	125.000	132.240	555518.68	0.0828	P	1.4
5	☐	250.000	260.339	1086436.31	0.1630	P	1.7
6	☐	500.000	488.923	2096338.76	0.3061	A	6.6
7	☐	1000.000	1001.840	4098083.60	0.6272	A	2.4
8	☐			1877.96	0.0003	P	3.4

$$y = 6.2601E-004 * x + 2.5042E-006$$

$$R = 0.9998$$

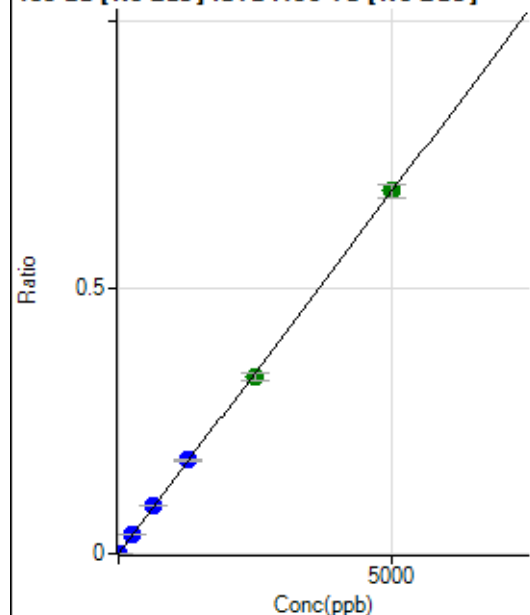
$$DL = 0.006166$$

$$BEC = 0.004$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.33	0.0000	P	42.2
2	☐	10.000	9.981	9178.34	0.0014	P	4.4
3	☐	250.000	265.900	239200.79	0.0362	P	1.3
4	☐	625.000	653.303	596510.16	0.0889	P	0.7
5	☐	1250.000	1293.620	1173040.86	0.1760	P	2.6
6	☐	2500.000	2441.436	2275978.42	0.3322	A	4.6
7	☐	5000.000	5014.044	4456477.49	0.6822	A	3.9
8	☐			2836.49	0.0005	P	6.0

$$y = 1.3605E-004 * x + 8.7205E-006$$

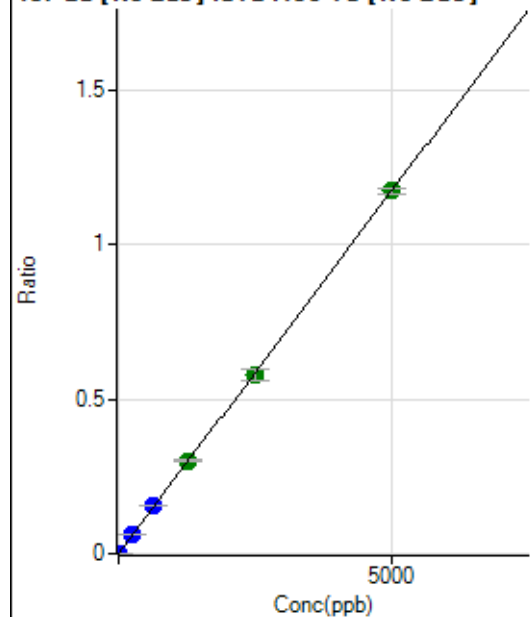
$$R = 0.9998$$

$$DL = 0.08119$$

$$BEC = 0.0641$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	16.2
2	☐	10.000	10.019	15862.50	0.0024	P	3.0
3	☐	250.000	271.171	420806.34	0.0637	P	0.4
4	☐	625.000	665.216	1047678.56	0.1561	P	0.9
5	☐	1250.000	1283.281	2007839.39	0.3012	A	1.0
6	☐	2500.000	2465.438	3963591.10	0.5787	A	6.3
7	☐	5000.000	5002.875	7671905.03	1.1742	A	1.6
8	☐			5048.29	0.0008	P	11.1

$$y = 2.3470E-004 * x + 8.3024E-006$$

$$R = 0.9999$$

$$DL = 0.01718$$

$$BEC = 0.03537$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			11.11		P	124.9
3	☐			20.00		P	33.4
4	☐			33.33		P	20.0
5	☐			68.89		P	5.6
6	☐			122.22		P	19.2
7	☐			202.23		P	5.0
8	☐			184.45		P	17.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			3.33		P	100.1
5	☐			12.22		P	83.3
6	☐			10.00		P	57.7
7	☐			17.78		P	10.8
8	☐			47.78		P	28.2

156 Dy [No Gas] No available calibration points

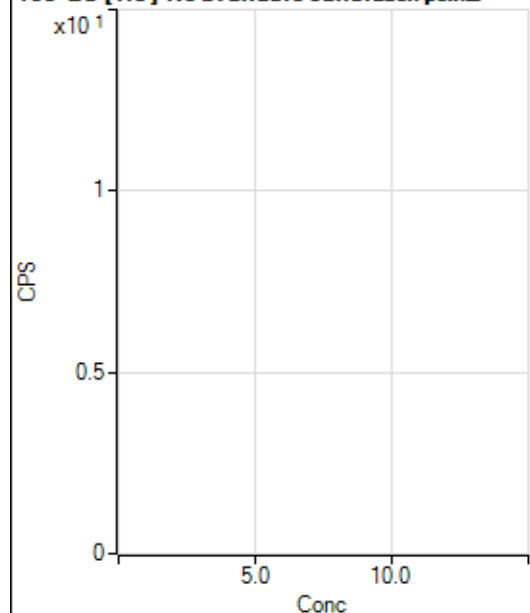
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	69.3
2	☐			11.11		P	43.3
3	☐			19.44		P	65.5
4	☐			38.89		P	32.7
5	☐			75.01		P	19.2
6	☐			130.56		P	25.8
7	☐			252.79		P	22.0
8	☐			1005.62		P	13.7

156 Dy [He] No available calibration points

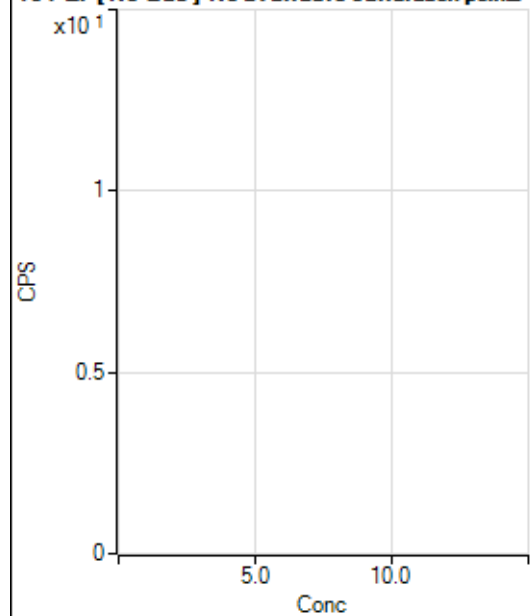
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			3.33		P	0.0
3	☐			16.67		P	34.6
4	☐			31.11		P	34.4
5	☐			58.89		P	8.6
6	☐			85.56		P	20.0
7	☐			135.56		P	29.3
8	☐			468.90		P	9.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.22		P	50.9
2	☐			41.67		P	34.7
3	☐			88.89		P	21.6
4	☐			80.56		P	31.6
5	☐			88.89		P	23.6
6	☐			158.34		P	24.1
7	☐			302.79		P	13.0
8	☐			1088.96		P	6.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			78.89		P	25.8
2	☐			63.33		P	NaN
3	☐			81.11		P	13.2
4	☐			96.67		P	9.1
5	☐			93.33		P	21.7
6	☐			101.12		P	13.3
7	☐			161.12		P	14.1
8	☐			594.46		P	8.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.22		P	36.7
2	☐			58.33		P	24.7
3	☐			58.33		P	14.3
4	☐			63.89		P	7.5
5	☐			83.34		P	10.0
6	☐			47.22		P	50.9
7	☐			83.34		P	17.3
8	☐			158.34		P	27.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			12.22		P	15.7
2	☐			17.78		P	92.5
3	☐			21.11		P	77.9
4	☐			27.78		P	18.3
5	☐			11.11		P	34.6
6	☐			33.34		P	45.8
7	☐			31.11		P	34.4
8	☐			72.22		P	16.2

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.33		P	25.0
2	☐			58.34		P	62.3
3	☐			36.11		P	74.2
4	☐			52.78		P	39.7
5	☐			63.89		P	37.7
6	☐			100.00		P	25.0
7	☐			111.11		P	11.5
8	☐			133.34		P	25.0

172 Yb [He] No available calibration points

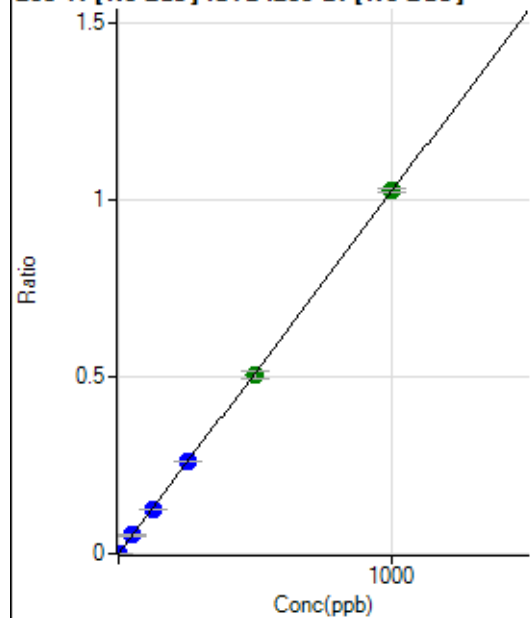
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			20.37		P	56.8
2	☐			18.52		P	62.4
3	☐			24.08		P	70.5
4	☐			18.52		P	45.8
5	☐			16.67		P	57.7
6	☐			38.89		P	37.8
7	☐			75.93		P	18.4
8	☐			81.48		P	41.7

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			800.05		P	8.1
2	☐			866.72		P	6.9
3	☐			1705.72		P	10.7
4	☐			3217.15		P	2.7
5	☐			5534.67		P	5.9
6	☐			10598.97		P	7.0
7	☐			20432.98		P	3.3
8	☐			816.72		P	8.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6153.39		P	4.3
2	☐			6273.83		P	5.0
3	☐			6520.26		P	4.1
4	☐			6946.39		P	1.6
5	☐			7956.20		P	2.9
6	☐			9803.77		P	0.9
7	☐			13633.17		P	1.8
8	☐			5986.65		P	8.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	43.7
2	☐	1.000	0.954	4514.81	0.0010	P	4.1
3	☐	50.000	50.637	232115.29	0.0519	P	2.5
4	☐	125.000	123.265	583878.93	0.1264	P	0.5
5	☐	250.000	253.580	1167421.66	0.2600	P	1.0
6	☐	500.000	495.133	2314613.29	0.5076	A	4.3
7	☐	1000.000	1001.724	4537230.83	1.0269	A	1.1
8	☐			902.83	0.0002	P	12.8

$$y = 0.0010 * x + 6.0369E-006$$

$$R = 1.0000$$

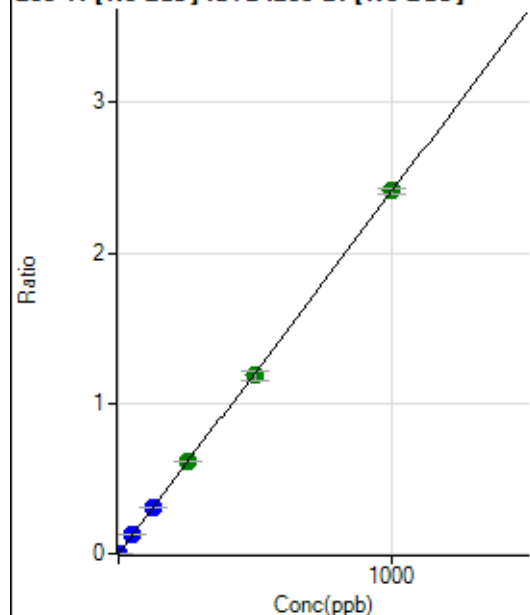
$$DL = 0.007712$$

$$BEC = 0.005889$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.33	0.0000	P	61.2
2	☐	1.000	0.961	10663.02	0.0023	P	2.3
3	☐	50.000	51.677	555987.60	0.1244	P	2.6
4	☐	125.000	126.398	1405096.38	0.3041	P	1.3
5	☐	250.000	255.803	2764066.03	0.6155	A	0.5
6	☐	500.000	491.990	5397668.70	1.1838	A	4.7
7	☐	1000.000	1002.296	10653425.84	2.4117	A	1.9
8	☐			2194.69	0.0006	P	7.8

$$y = 0.0024 * x + 1.2707E-005$$

$$R = 0.9999$$

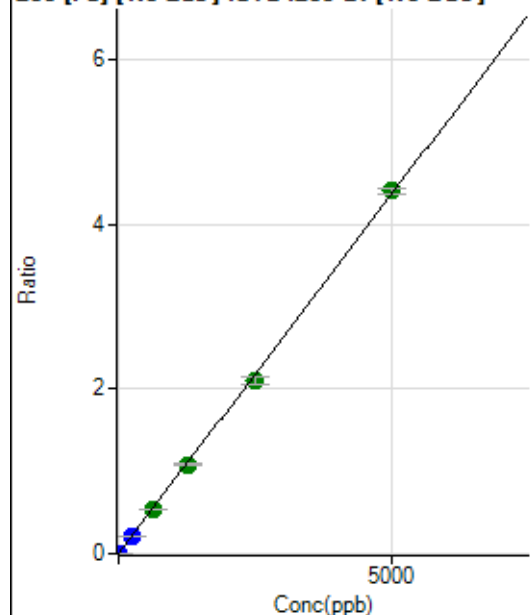
$$DL = 0.009703$$

$$BEC = 0.005281$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	437.05	0.0001	P	9.3
2	☐	1.000	0.953	4254.48	0.0009	P	3.6
3	☐	250.000	249.443	974143.08	0.2179	P	2.4
4	☐	625.000	617.455	2491100.69	0.5392	A	1.4
5	☐	1250.000	1243.702	4877046.81	1.0860	A	0.8
6	☐	2500.000	2408.891	9590220.24	2.1033	A	4.8
7	☐	5000.000	5048.100	19473180.06	4.4076	A	1.5
8	☐			8161.96	0.0021	P	10.8

$$y = 8.7310E-004 * x + 9.5695E-005$$

$$R = 0.9998$$

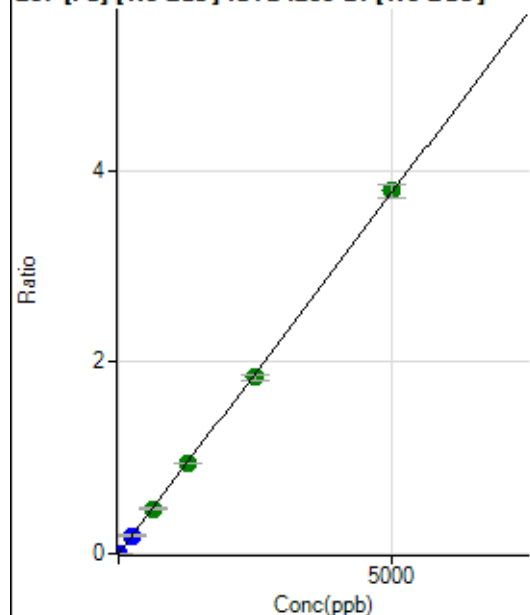
$$DL = 0.03058$$

$$BEC = 0.1096$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	392.60	0.0001	P	7.3
2	☐	1.000	1.002	3856.21	0.0008	P	1.6
3	☐	250.000	252.707	851682.42	0.1905	P	2.3
4	☐	625.000	621.639	2164197.31	0.4685	A	1.8
5	☐	1250.000	1258.588	4258824.55	0.9484	A	1.0
6	☐	2500.000	2438.912	8380236.59	1.8377	A	3.8
7	☐	5000.000	5028.682	16733791.00	3.7889	A	3.4
8	☐			7153.95	0.0019	P	12.8

$$y = 7.5345E-004 * x + 8.5804E-005$$

R = 0.9999

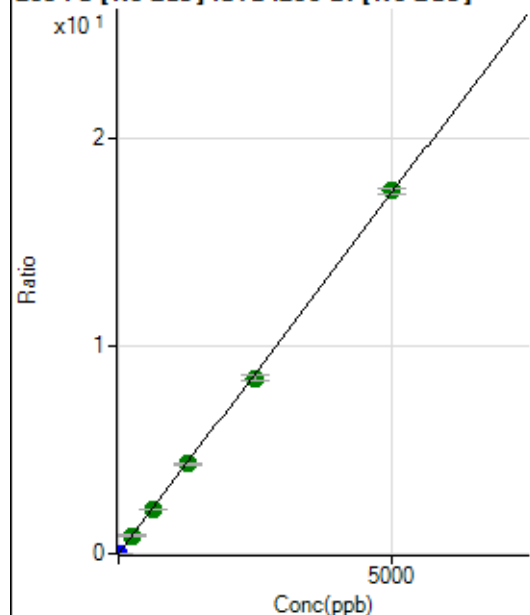
DL = 0.0251

BEC = 0.1139

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1763.04	0.0004	P	3.0
2	☐	1.000	0.979	17364.15	0.0038	P	1.5
3	☐	250.000	253.162	3932507.71	0.8794	A	1.6
4	☐	625.000	619.180	9935242.33	2.1503	A	0.5
5	☐	1250.000	1243.893	19397543.46	4.3195	A	0.9
6	☐	2500.000	2438.238	38609963.31	8.4666	A	3.8
7	☐	5000.000	5032.977	77208426.61	17.4762	A	1.4
8	☐			32368.14	0.0085	P	10.5

$$y = 0.0035 * x + 3.8566E-004$$

R = 0.9999

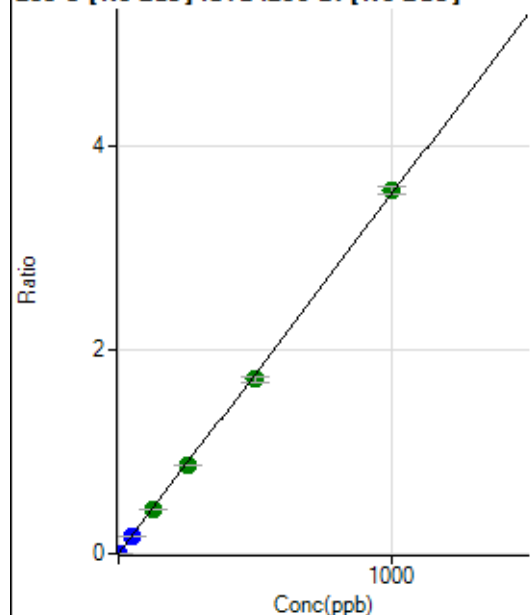
DL = 0.01001

BEC = 0.1111

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.7
2	☐	1.000	0.938	15228.98	0.0033	P	3.8
3	☐	50.000	49.867	788638.87	0.1764	P	1.2
4	☐	125.000	123.269	2013962.78	0.4359	A	1.6
5	☐	250.000	247.468	3930114.89	0.8752	A	0.9
6	☐	500.000	484.019	7805592.45	1.7117	A	4.1
7	☐	1000.000	1008.847	15762444.28	3.5678	A	2.0
8	☐			1639.04	0.0004	P	15.3

$$y = 0.0035 * x + 3.6558E-006$$

$$R = 0.9998$$

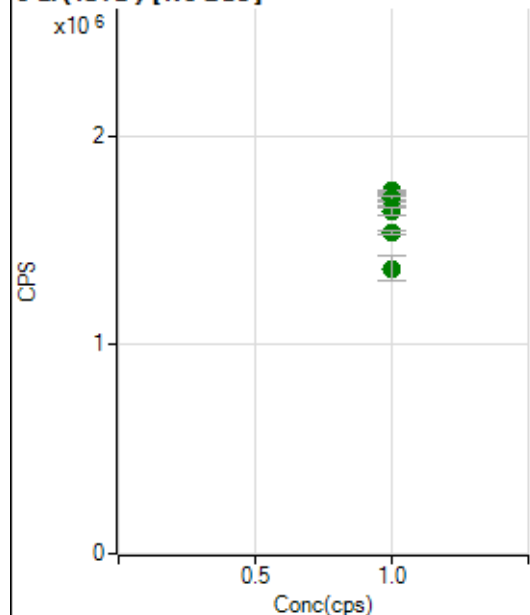
$$DL = 0.001542$$

$$BEC = 0.001034$$

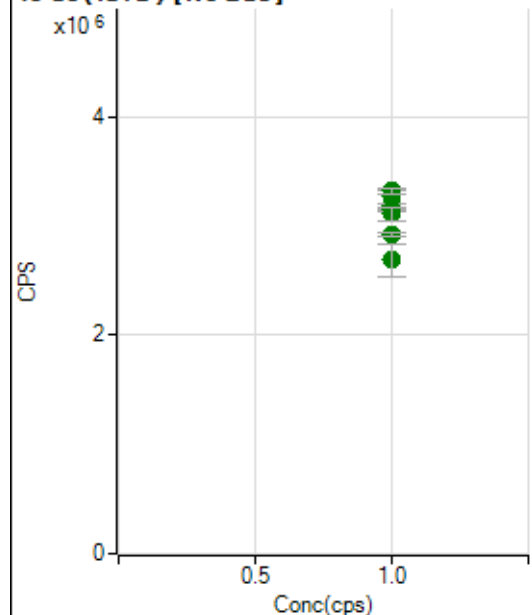
Weight: <None>

Min Conc: 0

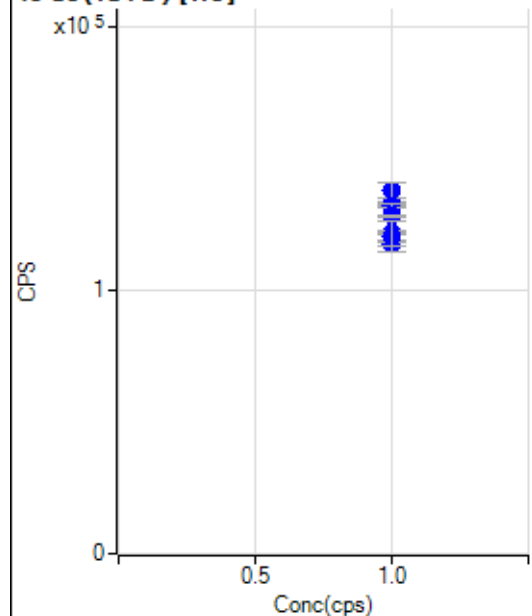
6 Li (ISTD) [No Gas]



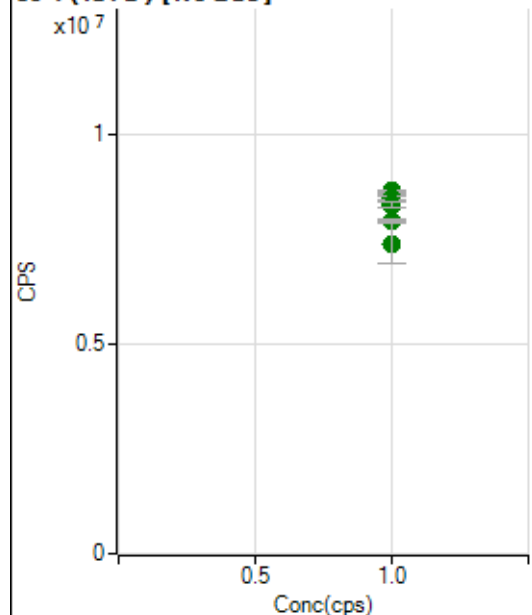
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1703811.00		A	1.6
2	☐	1.000		1737180.66		A	0.9
3	☐	1.000		1703657.97		A	0.7
4	☐	1.000		1699898.46		A	1.2
5	☐	1.000		1661106.86		A	1.0
6	☐	1.000		1637555.08		A	2.1
7	☐	1.000		1534260.40		A	1.3
8	☐	1.000		1366744.72		A	9.2

45 Sc (ISTD) [No Gas]

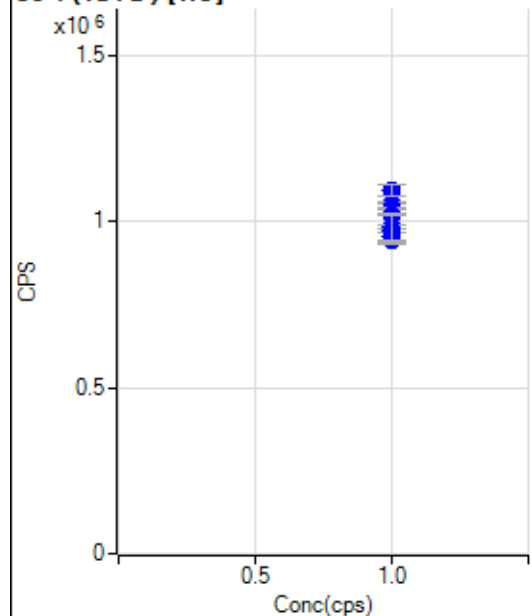
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3262953.39		A	3.5
2	☐	1.000		3317875.82		A	1.4
3	☐	1.000		3167681.03		A	1.6
4	☐	1.000		3185743.70		A	0.7
5	☐	1.000		3146058.22		A	0.9
6	☐	1.000		3112262.56		A	4.0
7	☐	1.000		2918157.87		A	1.2
8	☐	1.000		2683274.68		A	11.6

45 Sc (ISTD) [He]

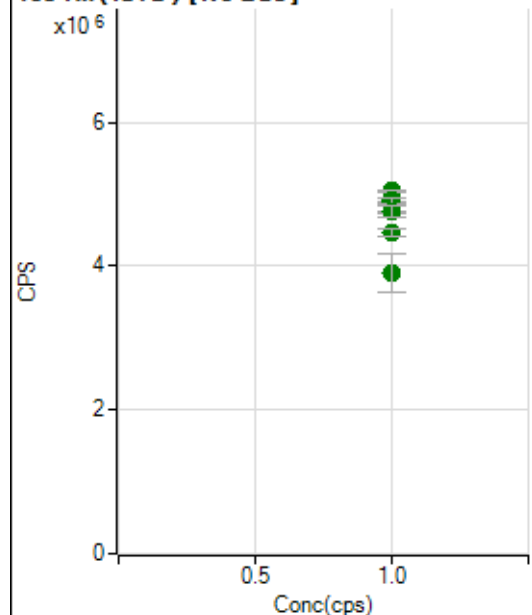
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		132736.88		P	1.1
2	☐	1.000		137667.84		P	4.3
3	☐	1.000		131930.70		P	1.2
4	☐	1.000		128118.88		P	0.4
5	☐	1.000		121633.02		P	1.4
6	☐	1.000		120451.91		P	2.6
7	☐	1.000		117560.20		P	1.4
8	☐	1.000		120433.67		P	9.8

89 Y (ISTD) [No Gas]

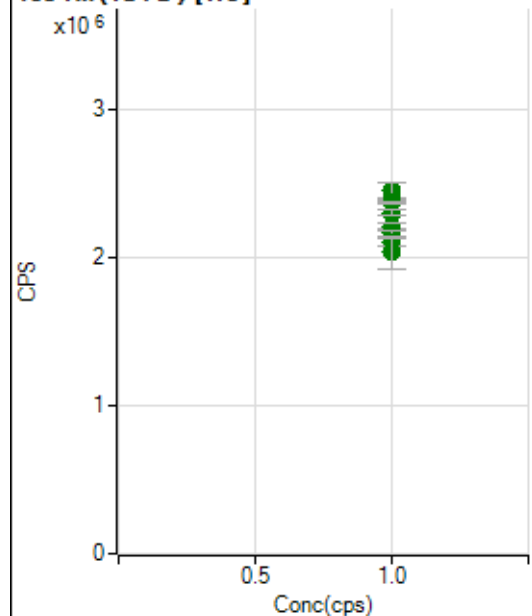
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8635829.32		A	1.1
2	☐	1.000		8673745.15		A	0.9
3	☐	1.000		8521237.37		A	1.5
4	☐	1.000		8485476.05		A	1.7
5	☐	1.000		8367962.17		A	2.4
6	☐	1.000		8334174.53		A	1.5
7	☐	1.000		7976112.03		A	1.1
8	☐	1.000		7404550.79		A	13.1

89 Y (ISTD) [He]

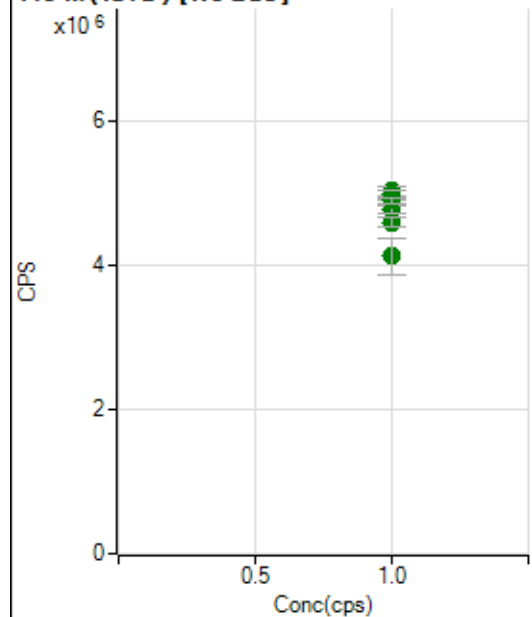
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1054950.94		P	0.4
2	☐	1.000		1092015.48		P	3.3
3	☐	1.000		1039248.32		P	0.3
4	☐	1.000		1021379.86		P	0.4
5	☐	1.000		983671.79		P	1.2
6	☐	1.000		955337.87		P	2.1
7	☐	1.000		941478.75		P	1.0
8	☐	1.000		973866.03		P	8.6

103 Rh (ISTD) [No Gas]

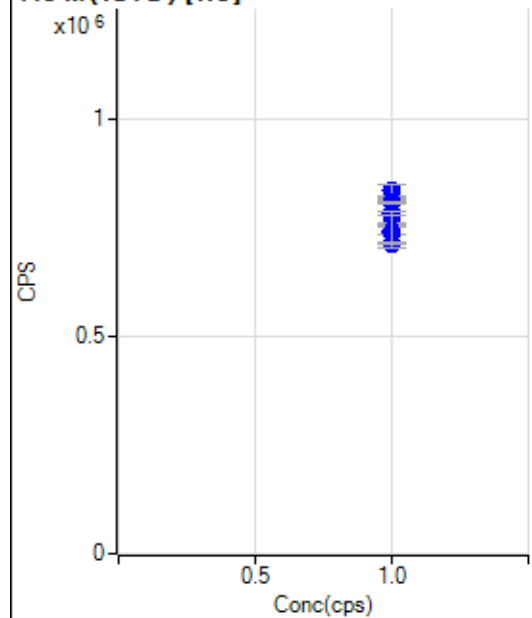
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4939881.93		A	3.0
2	☐	1.000		5042998.51		A	0.6
3	☐	1.000		4918395.94		A	0.6
4	☐	1.000		4897982.62		A	1.7
5	☐	1.000		4746850.59		A	0.8
6	☐	1.000		4748236.96		A	3.3
7	☐	1.000		4468605.79		A	2.2
8	☐	1.000		3902080.43		A	13.7

103 Rh (ISTD) [He]

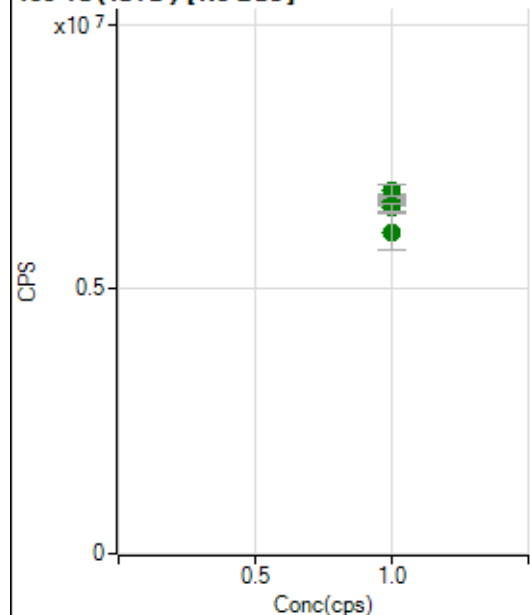
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2384839.55		A	0.5
2	☐	1.000		2451396.18		A	4.1
3	☐	1.000		2372621.89		A	0.9
4	☐	1.000		2306146.25		A	1.8
5	☐	1.000		2210834.66		A	1.7
6	☐	1.000		2164331.64		A	2.1
7	☐	1.000		2104117.22		A	2.2
8	☐	1.000		2036524.03		A	10.6

115 In (ISTD) [No Gas]

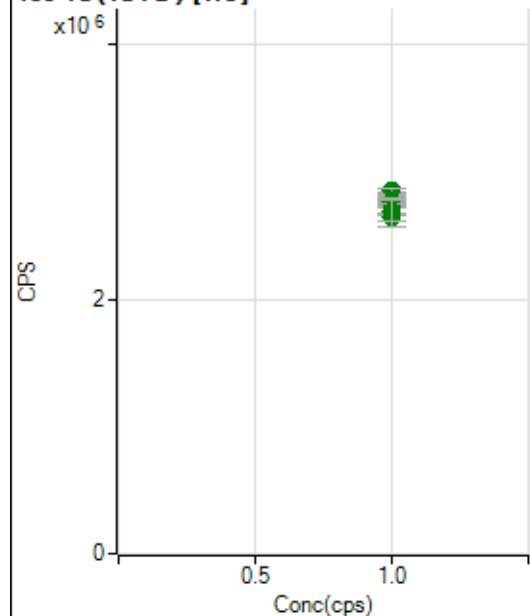
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4901558.59		A	2.8
2	☐	1.000		5038893.49		A	2.6
3	☐	1.000		4941768.45		A	0.9
4	☐	1.000		4993289.98		A	2.1
5	☐	1.000		4778528.17		A	2.2
6	☐	1.000		4908389.06		A	1.8
7	☐	1.000		4605084.33		A	2.5
8	☐	1.000		4130033.53		A	12.5

115 In (ISTD) [He]

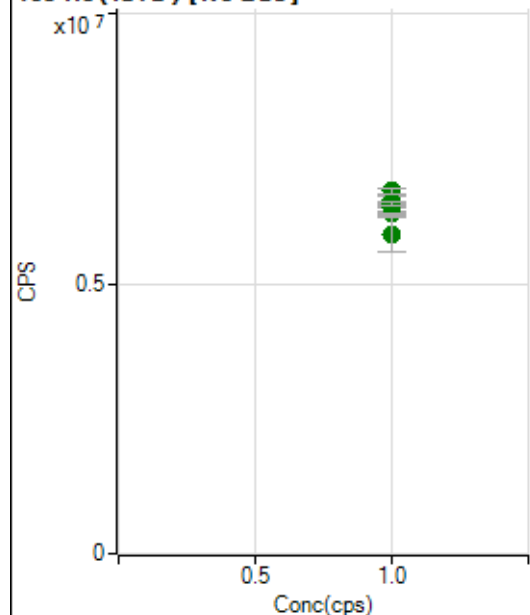
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		817003.70		P	1.2
2	☐	1.000		833232.19		P	3.5
3	☐	1.000		806435.93		P	0.5
4	☐	1.000		782885.30		P	1.4
5	☐	1.000		758087.83		P	0.7
6	☐	1.000		741170.81		P	2.3
7	☐	1.000		712777.17		P	0.9
8	☐	1.000		739188.79		P	10.0

159 Tb (ISTD) [No Gas]

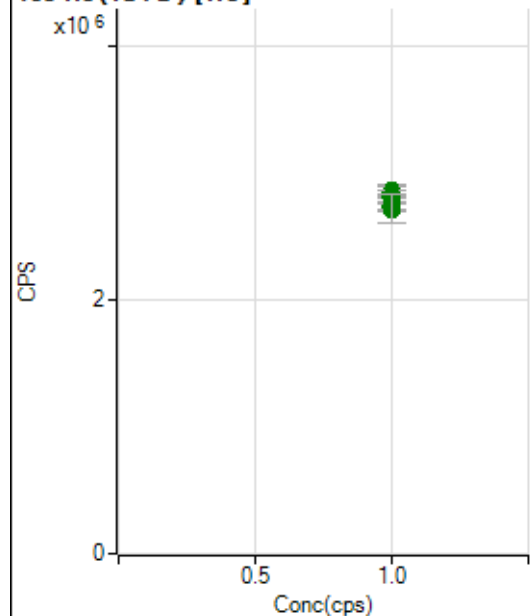
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6684497.47		A	1.6
2	☐	1.000		6719033.93		A	2.1
3	☐	1.000		6611030.88		A	1.0
4	☐	1.000		6710148.99		A	1.1
5	☐	1.000		6667162.89		A	2.2
6	☐	1.000		6858817.12		A	3.3
7	☐	1.000		6535067.96		A	2.0
8	☐	1.000		6081006.78		A	11.2

159 Tb (ISTD) [He]

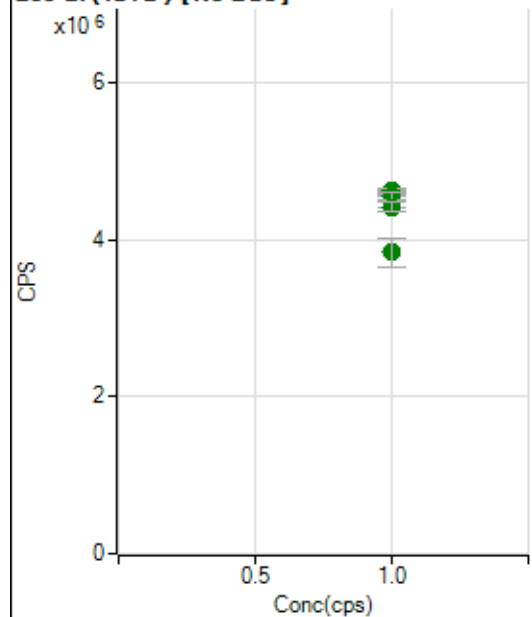
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2808441.77		A	2.0
2	☐	1.000		2850766.17		A	1.8
3	☐	1.000		2784791.59		A	1.6
4	☐	1.000		2729547.04		A	0.7
5	☐	1.000		2768544.23		A	0.8
6	☐	1.000		2637562.13		A	1.3
7	☐	1.000		2641899.18		A	2.2
8	☐	1.000		2682131.28		A	8.8

165 Ho (ISTD) [No Gas]

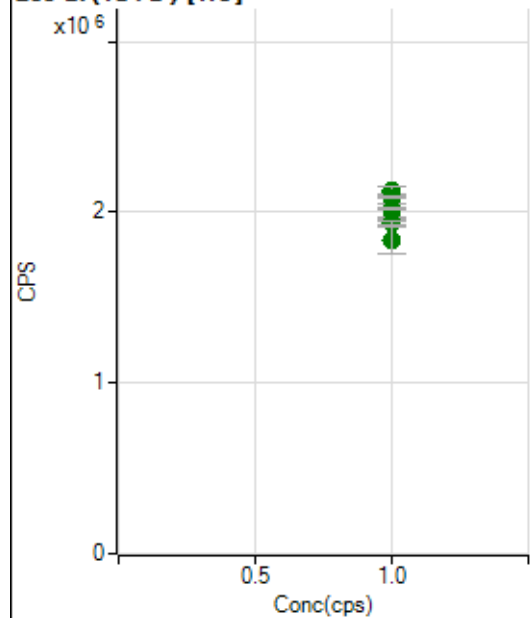
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6425285.21		A	3.0
2	☐	1.000		6550989.38		A	1.7
3	☐	1.000		6318675.62		A	3.0
4	☐	1.000		6495031.83		A	0.6
5	☐	1.000		6395247.37		A	2.4
6	☐	1.000		6718995.11		A	1.5
7	☐	1.000		6488646.72		A	1.4
8	☐	1.000		5927128.74		A	11.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2854134.47		A	3.4
2	☐	1.000		2859312.67		A	2.7
3	☐	1.000		2851431.45		A	1.0
4	☐	1.000		2818084.05		A	1.0
5	☐	1.000		2800886.97		A	2.1
6	☐	1.000		2737461.57		A	1.8
7	☐	1.000		2707198.92		A	0.9
8	☐	1.000		2726101.61		A	8.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4569419.23		A	2.8
2	☐	1.000		4587517.43		A	0.5
3	☐	1.000		4473070.77		A	3.3
4	☐	1.000		4620189.65		A	1.0
5	☐	1.000		4490823.75		A	0.6
6	☐	1.000		4562715.42		A	2.2
7	☐	1.000		4418977.78		A	2.7
8	☐	1.000		3836007.69		A	10.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2115761.18		A	3.3
2	☐	1.000		2124104.50		A	2.0
3	☐	1.000		2088135.20		A	0.7
4	☐	1.000		2031437.28		A	1.3
5	☐	1.000		2020267.70		A	0.6
6	☐	1.000		1964520.70		A	0.8
7	☐	1.000		1933205.44		A	1.4
8	☐	1.000		1835033.11		A	8.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8080223-MS.b

Acq. Date-Time 2023-08-02 08:22:01

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		6999	69985.53			1.643	5.000
24		305057	3050566.59			1.703	5.000
25		41439	414394.37			1.546	5.000
26		48640	486395.93			1.530	5.000
59		59255	592553.14			1.976	5.000
113		6604	66035.51			2.577	5.000
115		79750	797496.18			1.999	5.000
206		22444	224441.99			2.569	5.000
207		20011	200112.79			1.880	5.000
208		48325	483245.49			3.096	5.000
220		0	1.70			49.215	

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

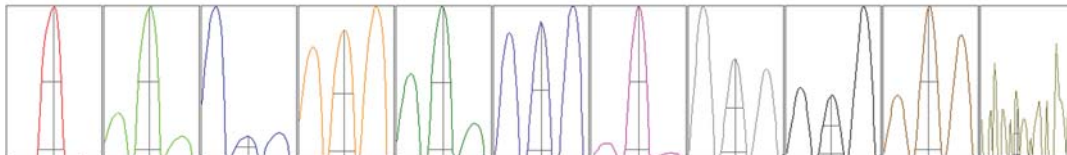
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7026	6826	7137	7041	6962
24	307364	297566	311563	303106	305684
25	41909	40604	42233	41200	41251
26	48559	47846	49863	48566	48365
59	59150	57985	61137	59310	58694
113	6605	6382	6854	6631	6546
115	79171	79060	82593	79079	78845
206	22121	21675	23193	22702	22530
207	19712	19593	20541	20149	20061
208	47929	46407	50556	48629	48102

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	11948.11	9.00	8.90 - 9.10	
24	508007.48	23.95	23.90 - 24.10	
25	69754.51	25.00	24.90 - 25.10	
26	80782.04	25.95	25.90 - 26.10	
59	105093.38	59.00	58.90 - 59.10	
113	12817.13	113.05	112.90 - 113.10	
115	153693.29	115.05	114.90 - 115.10	
206	42466.49	206.00	205.90 - 206.10	
207	37864.35	206.95	206.90 - 207.10	
208	92646.44	207.95	207.90 - 208.10	
220	0.25	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.823	0.900	
24	0.64	0.790	0.900	
25	0.63	0.826	0.900	
26	0.64	0.824	0.900	
59	0.59	0.777	0.900	
113	0.53	0.765	0.900	
115	0.54	0.762	0.900	
206	0.54	0.807	0.900	
207	0.53	0.798	0.900	
208	0.53	0.818	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	14.2 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.9 mm
---------	--------	---------	---------

EM

Discriminator	4.4 mV	Analog HV	2311 V	Pulse HV	1655 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14494	144940.45			3.841	
89		34581	345813.95			3.797	
205		16329	163291.42			2.482	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14467	14432	14801	15133	13638
89	34406	34236	34977	36458	32829
205	16379	16501	16438	16693	15636

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	2.6 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.9 mm
---------	--------	---------	---------

EM

Discriminator	4.4 mV	Analog HV	2311 V	Pulse HV	1655 V
---------------	--------	-----------	--------	----------	--------