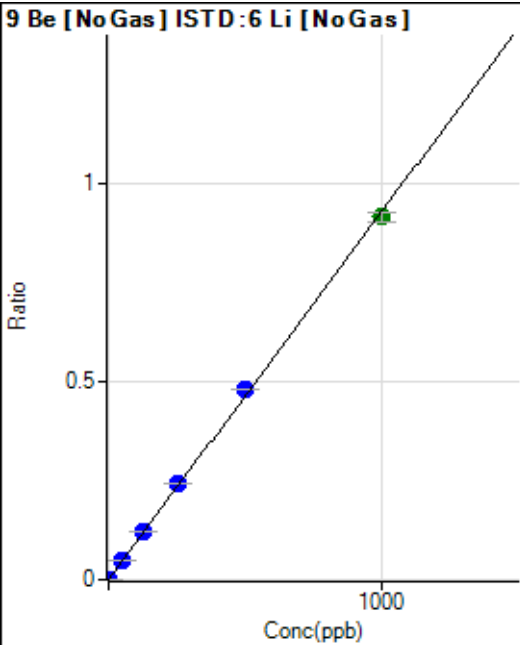


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7080724-MS1.b\
 Analysis File: P7080724-MS1.batch.bin
 DA Date-Time: 2024-08-07 19:00:55
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

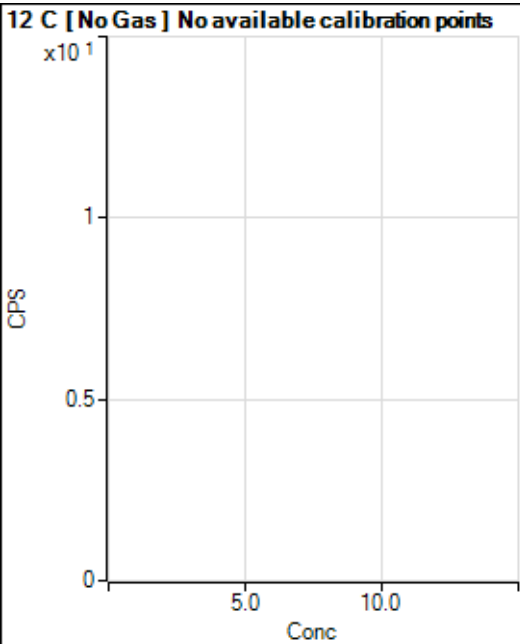
Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-08-07 14:03:16
2	005CALS.d	S02	2024-08-07 14:06:36
3	006CALS.d	S03	2024-08-07 14:09:57
4	007CALS.d	S04	2024-08-07 14:13:00
5	008CALS.d	S05	2024-08-07 14:15:58
6	009CALS.d	S06	2024-08-07 14:18:48
7	010CALS.d	S07	2024-08-07 14:21:36
8	011CALS.d	S08	2024-08-07 14:24:22



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	53.33	0.0000	P	27.7
2	☐	1.000	1.077	1545.64	0.0010	P	5.5
3	☐	50.000	54.181	78981.23	0.0503	P	1.1
4	☐	125.000	131.933	197899.37	0.1225	P	0.6
5	☐	250.000	261.916	396645.21	0.2431	P	0.3
6	☐	500.000	518.423	796690.76	0.4812	P	0.6
7	☐	1000.000	986.734	1522402.32	0.9159	A	2.5
8	☐			176.67	0.0001	P	5.0

$y = 9.2817E-004 * x + 3.5805E-005$
R = 0.9997
DL = 0.03206
BEC = 0.03858

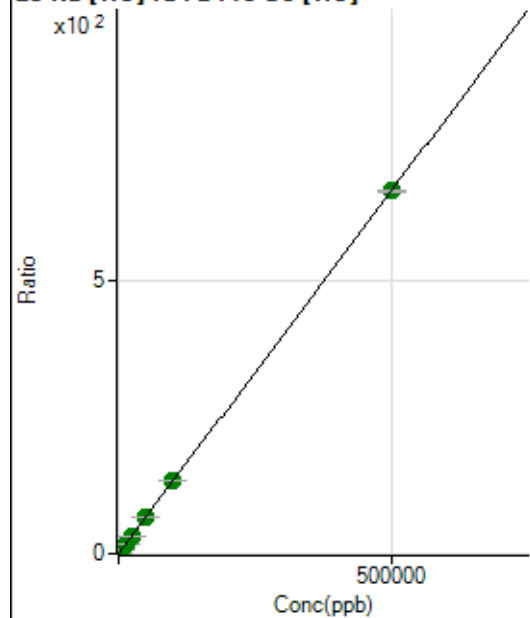
Weight: <None>
Min Conc: 0



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21005.53	0.0516	P	1.0
2	☐	500.000	508.565	295951.43	0.7251	P	0.1
3	☐	5000.000	5163.247	2729378.57	6.8900	A	4.1
4	☐	12500.000	12447.310	6518682.89	16.5372	A	0.9
5	☐	25000.000	25082.998	12777479.95	33.2723	A	0.2
6	☐	50000.000	50469.035	25500056.56	66.8944	A	1.4
7	☐	100000.00	100180.67	51550495.34	132.7340	A	0.4
8	☐	500000.00	499912.48	257305151.7	662.1514	A	0.5

$$y = 0.0013 * x + 0.0516$$

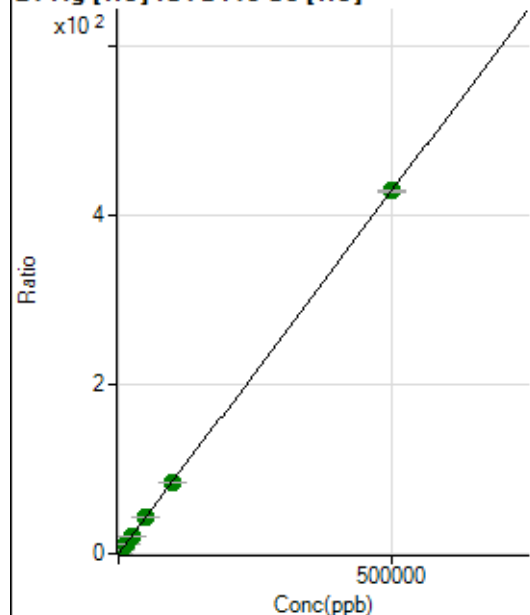
$$R = 1.0000$$

$$DL = 1.22$$

$$BEC = 38.95$$

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	1690.11	0.0042	P	3.3
2	☐	500.000	503.716	178104.36	0.4364	P	0.3
3	☐	5000.000	5120.013	1742128.34	4.3977	A	3.9
4	☐	12500.000	12442.873	4210520.87	10.6815	A	0.4
5	☐	25000.000	24884.056	8201829.11	21.3573	A	0.3
6	☐	50000.000	50052.469	16373676.42	42.9545	A	1.9
7	☐	100000.00	98902.459	32962458.40	84.8730	A	0.2
8	☐	500000.00	500220.28	166803365.2	429.2464	A	0.8

$$y = 8.5811\text{E-}004 * x + 0.0042$$

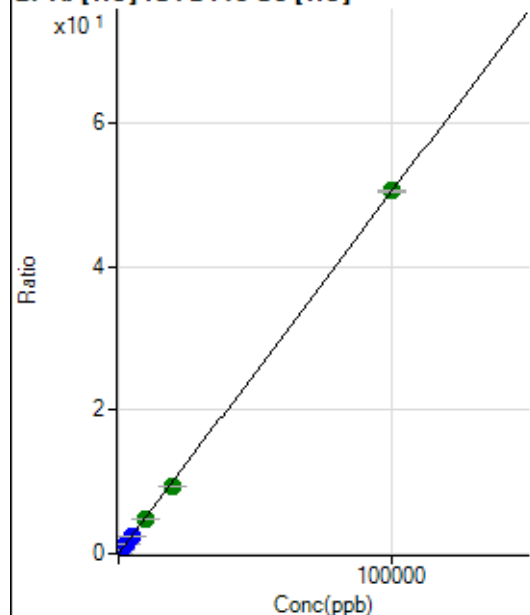
$$R = 1.0000$$

$$DL = 0.4832$$

$$BEC = 4.837$$

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	238.89	0.0006	P	15.0
2	☐	20.000	19.001	4150.60	0.0102	P	3.8
3	☐	1000.000	1022.457	204547.06	0.5162	P	3.1
4	☐	2500.000	2454.895	488257.05	1.2387	P	0.8
5	☐	5000.000	4893.251	947939.74	2.4684	P	0.4
6	☐	10000.000	9489.226	1824489.68	4.7863	A	2.1
7	☐	20000.000	18796.124	3681844.11	9.4801	A	0.5
8	☐	100000.00	100298.09	19656811.10	50.5843	A	0.7

$$y = 5.0433\text{E-}004 * x + 5.8700\text{E-}004$$

$$R = 0.9999$$

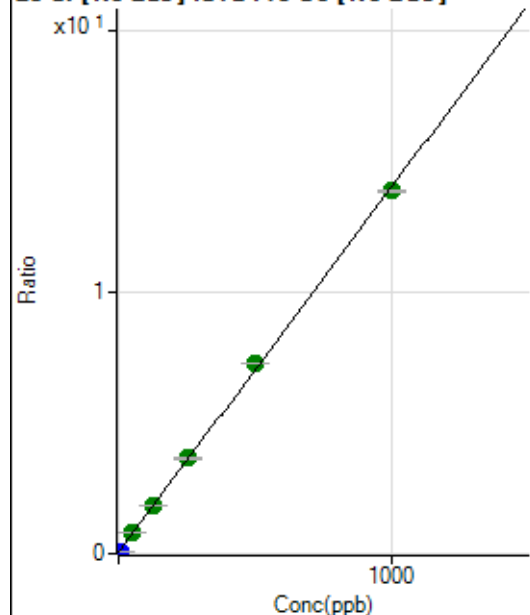
$$DL = 0.5244$$

$$BEC = 1.164$$

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	291026.09	0.0575	P	1.2
2	☐	10.000	0.319	312495.78	0.0619	P	1.1
3	☐	50.000	52.073	4006052.68	0.7838	A	0.9
4	☐	125.000	128.697	9271108.20	1.8526	A	1.1
5	☐	250.000	257.718	17902151.68	3.6522	A	1.3
6	☐	500.000	515.886	34988882.81	7.2532	A	0.2
7	☐	1000.000	989.659	67233330.67	13.8615	A	0.7
8	☐			440978.78	0.0933	P	1.3

$$y = 0.0139 * x + 0.0575$$

$$R = 0.9997$$

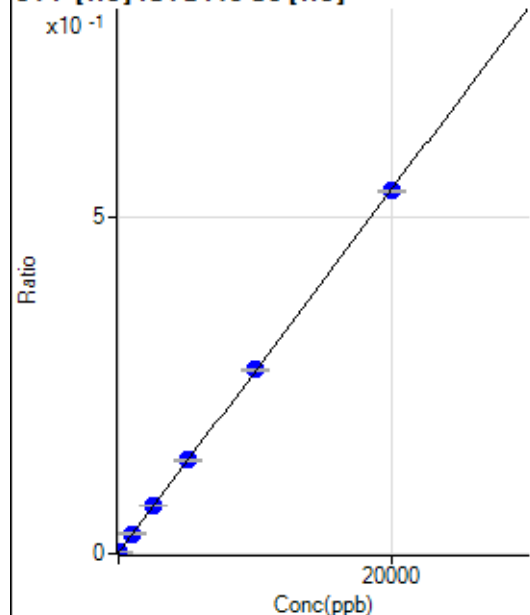
$$DL = 0.143$$

$$BEC = 4.122$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.844	373.34	0.0009	P	7.8
2	☐	0.000	15.844	722.25	0.0018	P	1.8
3	☐	1000.000	1055.459	11791.29	0.0298	P	3.5
4	☐	2500.000	2563.621	27738.54	0.0704	P	1.4
5	☐	5000.000	5087.793	53125.06	0.1383	P	1.2
6	☐	10000.000	10080.299	103981.15	0.2728	P	1.0
7	☐	20000.000	19927.177	208907.14	0.5379	P	0.4
8	☐			421.12	0.0011	P	6.4

$$y = 2.6926E-005 * x + 0.0013$$

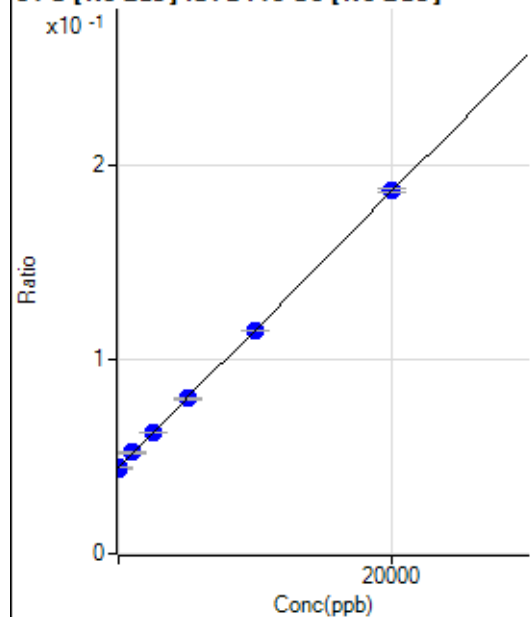
$$R = 1.0000$$

$$DL = 5.768$$

$$BEC = 49.88$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-77.754	221152.35	0.0437	P	1.6
2	☐	0.000	77.754	225987.51	0.0448	P	0.2
3	☐	1000.000	1076.888	265191.48	0.0519	P	0.2
4	☐	2500.000	2509.889	310555.58	0.0621	P	0.6
5	☐	5000.000	4996.313	390673.54	0.0797	P	0.5
6	☐	10000.000	9907.370	552549.57	0.1145	P	0.4
7	☐	20000.000	20042.156	904352.49	0.1865	P	1.0
8	☐			178023.47	0.0377	P	0.6

$$y = 7.0955E-006 * x + 0.0442$$

$$R = 1.0000$$

$$DL = 167.2$$

$$BEC = 6236$$

Weight: <None>

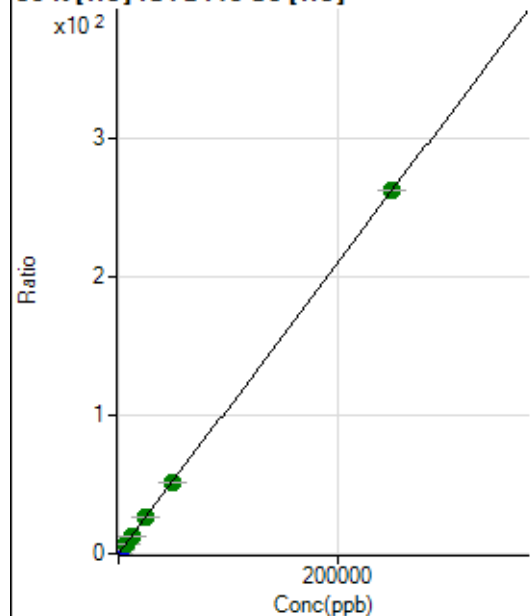
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58912.32	0.1447	P	2.0
2	☐	500.000	521.490	281900.24	0.6907	P	0.3
3	☐	2500.000	2754.768	1200019.26	3.0291	P	3.8
4	☐	6250.000	6261.153	2641164.94	6.7006	A	1.1
5	☐	12500.000	12289.277	4997156.25	13.0125	A	1.0
6	☐	25000.000	24574.159	9864223.81	25.8757	A	0.8
7	☐	50000.000	48811.840	19905955.82	51.2543	A	0.5
8	☐	250000.00	250287.88	101893610.7	262.2148	A	0.1

$$y = 0.0010 * x + 0.1447$$

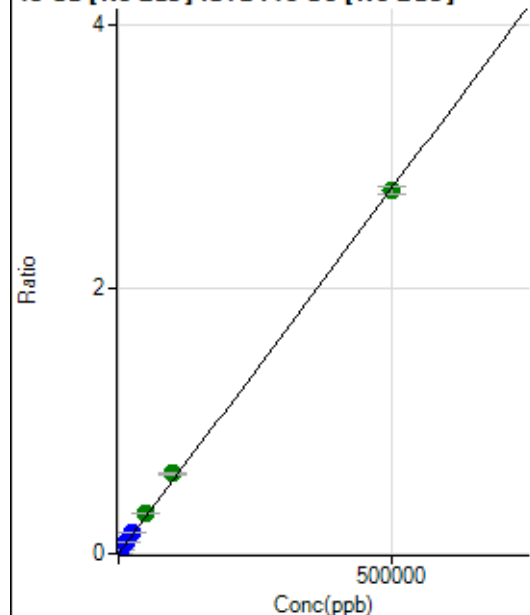
$$R = 1.0000$$

$$DL = 8.316$$

$$BEC = 138.2$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	837.81	0.0002	P	10.8
2	☐	500.000	520.422	15313.38	0.0030	P	0.7
3	☐	5000.000	5968.945	169079.82	0.0331	P	0.7
4	☐	12500.000	14571.477	402955.15	0.0805	P	1.3
5	☐	25000.000	29056.301	786227.27	0.1604	P	1.4
6	☐	50000.000	56421.239	1501723.31	0.3113	A	0.6
7	☐	100000.00	110313.69	2951218.77	0.6085	A	2.6
8	☐	500000.00	497030.82	12950259.11	2.7411	A	1.9

$$y = 5.5146\text{E-}006 * x + 1.6564\text{E-}004$$

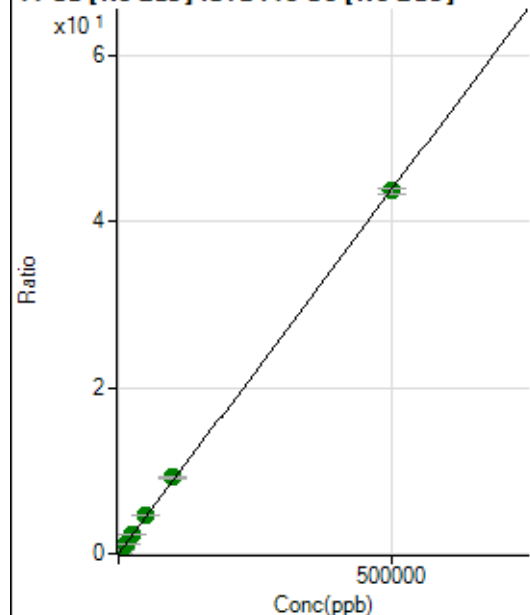
$$R = 0.9997$$

$$DL = 9.744$$

$$BEC = 30.04$$

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	21092.77	0.0042	P	3.3
2	☐	500.000	530.418	255696.69	0.0507	P	0.4
3	☐	5000.000	5426.496	2453687.64	0.4801	A	0.7
4	☐	12500.000	13189.516	5809696.16	1.1609	A	1.1
5	☐	25000.000	26495.456	11410675.80	2.3279	A	1.2
6	☐	50000.000	52774.146	22346873.83	4.6326	A	1.2
7	☐	100000.00	104659.34	44538579.89	9.1831	A	1.6
8	☐	500000.00	498694.41	206657361.3	43.7413	A	1.7

$$y = 8.7703\text{E-}005 * x + 0.0042$$

$$R = 0.9999$$

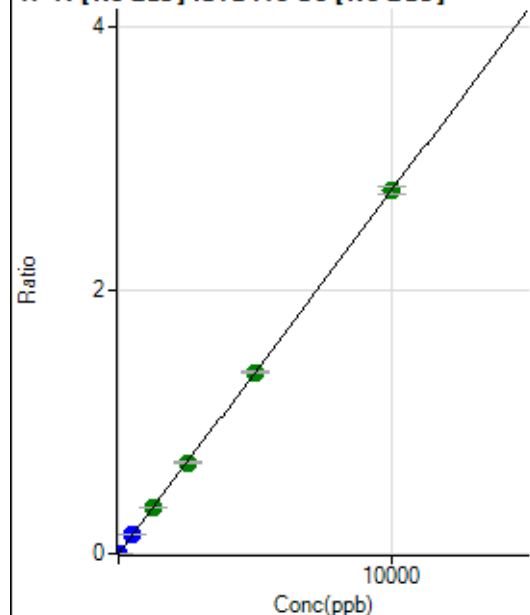
$$DL = 4.727$$

$$BEC = 47.52$$

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	208.89	0.0000	P	4.9
2	☐	5.000	4.574	6563.70	0.0013	P	2.8
3	☐	500.000	520.195	732551.02	0.1433	P	0.7
4	☐	1250.000	1266.778	1746305.86	0.3490	A	2.2
5	☐	2500.000	2514.229	3395044.74	0.6926	A	0.4
6	☐	5000.000	4994.835	6636961.64	1.3759	A	1.3
7	☐	10000.000	9995.919	13354034.11	2.7534	A	2.0
8	☐			1945.70	0.0004	P	11.5

$$y = 2.7545\text{E-}004 * x + 4.1267\text{E-}005$$

$$R = 1.0000$$

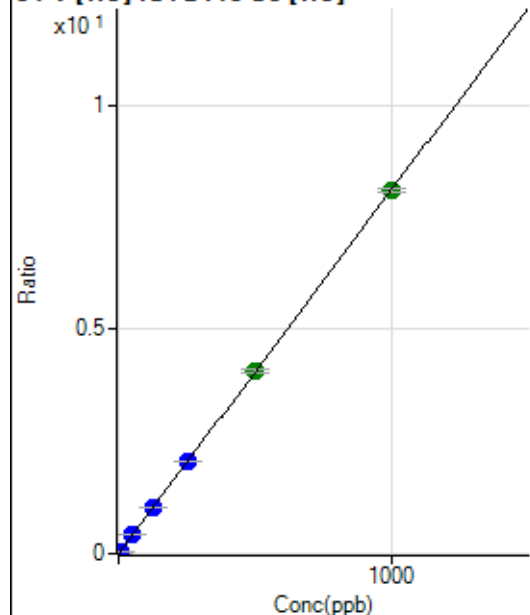
$$DL = 0.02216$$

$$BEC = 0.1498$$

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	22.22	0.0001	P	70.1
2	☐	5.000	5.055	16754.95	0.0411	P	1.2
3	☐	50.000	53.018	170351.55	0.4300	P	3.9
4	☐	125.000	127.762	408443.24	1.0362	P	0.7
5	☐	250.000	253.804	790461.36	2.0583	P	0.1
6	☐	500.000	502.755	1554208.22	4.0773	A	1.9
7	☐	1000.000	997.175	3140719.68	8.0869	A	1.2
8	☐			977.82	0.0025	P	10.4

$$y = 0.0081 * x + 5.4758\text{E-}005$$

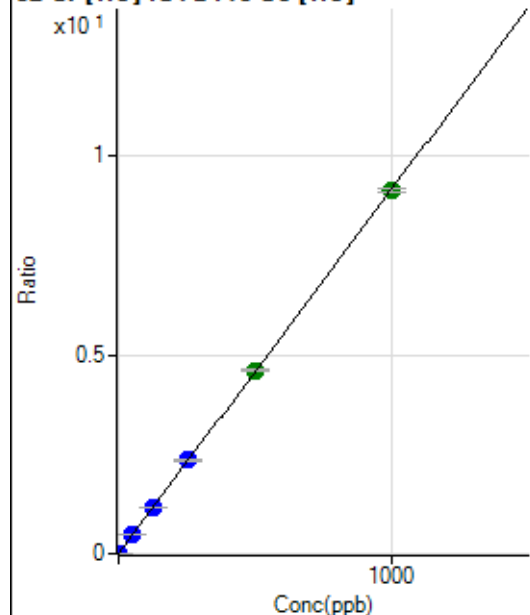
$$R = 1.0000$$

$$DL = 0.0142$$

$$BEC = 0.006752$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1933.48	0.0047	P	3.7
2	☐	2.000	2.012	9449.69	0.0232	P	0.5
3	☐	50.000	53.571	196003.89	0.4948	P	3.9
4	☐	125.000	128.018	463454.11	1.1757	P	1.2
5	☐	250.000	255.688	899980.51	2.3435	P	0.3
6	☐	500.000	503.775	1758394.38	4.6128	A	1.6
7	☐	1000.000	996.135	3540552.55	9.1164	A	1.0
8	☐			31332.67	0.0806	P	1.2

$$y = 0.0091 * x + 0.0047$$

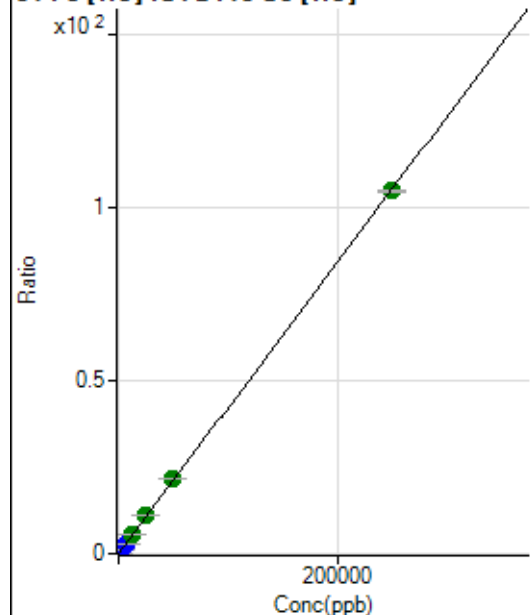
$$R = 1.0000$$

$$DL = 0.05762$$

$$BEC = 0.519$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1881.25	0.0046	P	5.1
2	☐	50.000	55.566	11404.41	0.0279	P	1.7
3	☐	2500.000	2904.858	484962.19	1.2239	P	3.0
4	☐	6250.000	6985.199	1157587.47	2.9367	P	0.4
5	☐	12500.000	13250.602	2137740.85	5.5666	A	1.1
6	☐	25000.000	26540.072	4248189.62	11.1449	A	2.3
7	☐	50000.000	51932.232	8467753.35	21.8032	A	1.0
8	☐	250000.00	249399.58	40681437.73	104.6905	A	0.8

$$y = 4.1975E-004 * x + 0.0046$$

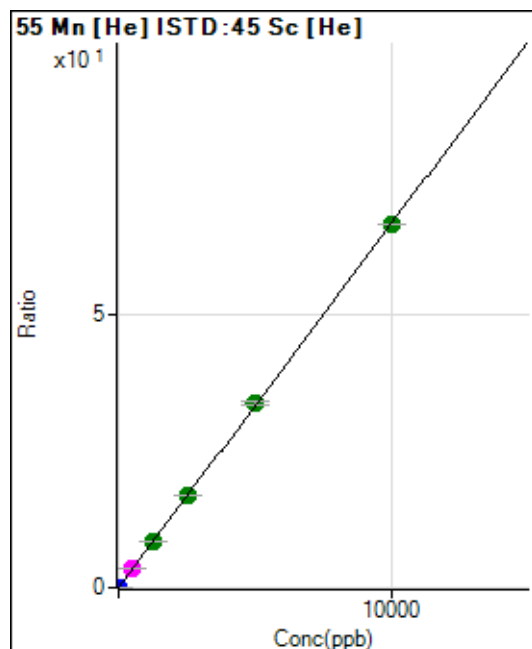
$$R = 1.0000$$

$$DL = 1.679$$

$$BEC = 11.01$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	601.13	0.0015	P	10.5
2	☐	1.000	0.969	3235.94	0.0079	P	3.4
3	☐	500.000	531.207	1401973.38	3.5391	M	4.0
4	☐	1250.000	1260.682	3310014.33	8.3970	A	0.6
5	☐	2500.000	2516.144	6435506.71	16.7578	A	0.5
6	☐	5000.000	5064.331	12856718.00	33.7275	A	1.9
7	☐	10000.000	9960.903	25763348.51	66.3364	A	0.1
8	☐			15343.46	0.0395	P	1.0

$$y = 0.0067 * x + 0.0015$$

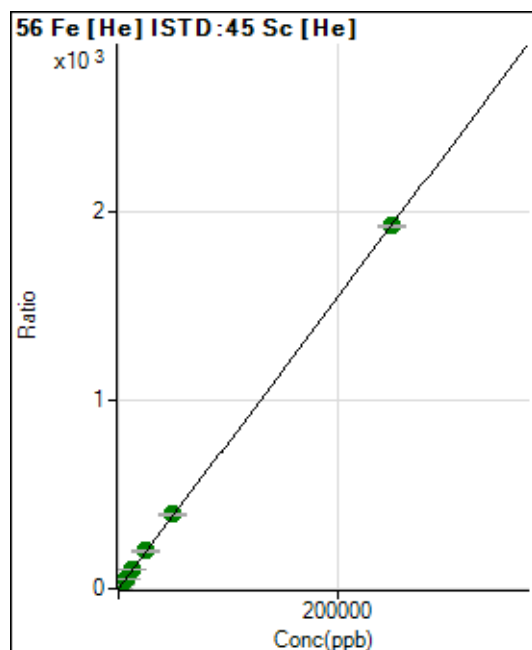
$$R = 1.0000$$

$$DL = 0.06993$$

$$BEC = 0.2216$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19761.03	0.0485	P	6.0
2	☐	50.000	54.768	192359.12	0.4713	P	1.4
3	☐	2500.000	2674.800	8200070.99	20.6973	A	3.6
4	☐	6250.000	6465.194	19692587.21	49.9583	A	1.2
5	☐	12500.000	12934.118	38363265.82	99.8968	A	0.3
6	☐	25000.000	26108.764	76844968.30	201.6018	A	2.7
7	☐	50000.000	50995.575	152912422.1	393.7220	A	0.6
8	☐	250000.00	249661.17	748943091.0	1,927.372	A	0.7

$$y = 0.0077 * x + 0.0485$$

$$R = 1.0000$$

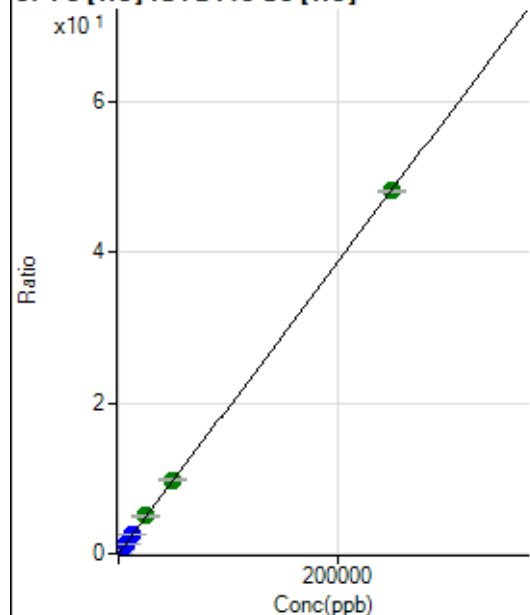
$$DL = 1.132$$

$$BEC = 6.286$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1907.92	0.0047	P	2.0
2	☐	50.000	58.292	6498.13	0.0159	P	1.4
3	☐	2500.000	2858.268	220137.09	0.5557	P	3.9
4	☐	6250.000	6843.520	521873.94	1.3239	P	1.0
5	☐	12500.000	13672.938	1014014.73	2.6405	P	0.5
6	☐	25000.000	26135.536	1922144.00	5.0429	A	3.0
7	☐	50000.000	50791.313	3804513.55	9.7959	A	0.8
8	☐	250000.00	249651.11	18702956.25	48.1309	A	0.5

$$y = 1.9277\text{E-}004 * x + 0.0047$$

$$R = 1.0000$$

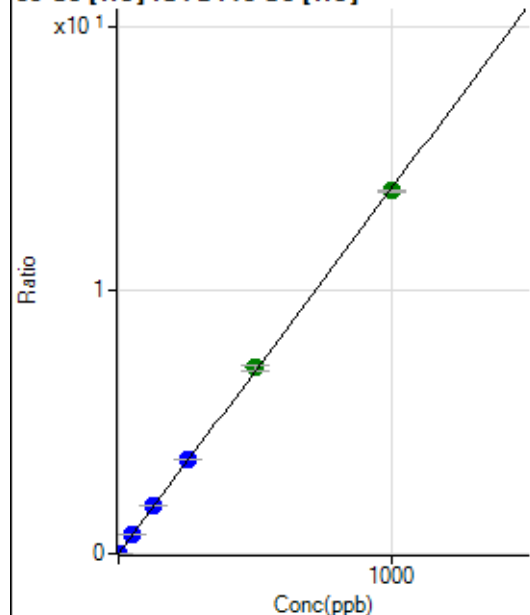
$$DL = 1.477$$

$$BEC = 24.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	182.23	0.0004	P	13.3
2	☐	1.000	1.071	6251.36	0.0153	P	3.1
3	☐	50.000	54.136	297939.10	0.7520	P	3.1
4	☐	125.000	129.347	707964.43	1.7960	P	0.5
5	☐	250.000	257.081	1370680.22	3.5692	P	0.2
6	☐	500.000	508.420	2690446.23	7.0583	A	2.3
7	☐	1000.000	993.270	5355275.96	13.7889	A	0.3
8	☐			14318.01	0.0368	P	1.6

$$y = 0.0139 * x + 4.4740\text{E-}004$$

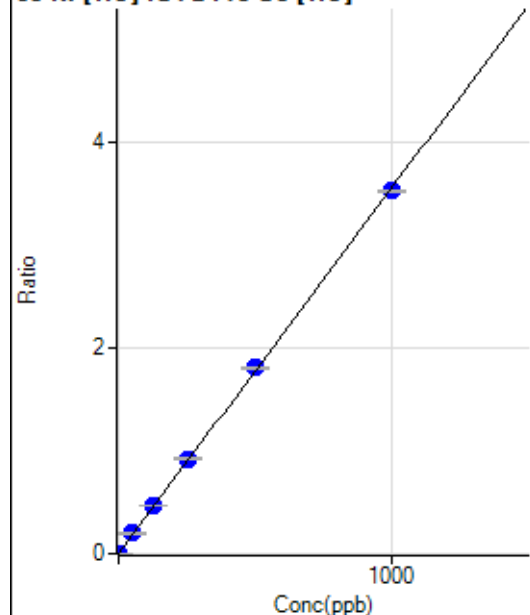
$$R = 0.9999$$

$$DL = 0.01284$$

$$BEC = 0.03223$$

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	584.46	0.0014	P	5.2
2	☐	1.000	1.017	2057.94	0.0050	P	5.9
3	☐	50.000	55.175	78075.04	0.1971	P	3.5
4	☐	125.000	130.773	183340.15	0.4651	P	0.7
5	☐	250.000	259.177	353457.56	0.9204	P	1.0
6	☐	500.000	507.923	687092.67	1.8024	P	0.9
7	☐	1000.000	992.764	1367647.10	3.5215	P	0.3
8	☐			10851.78	0.0279	P	0.5

$$y = 0.0035 * x + 0.0014$$

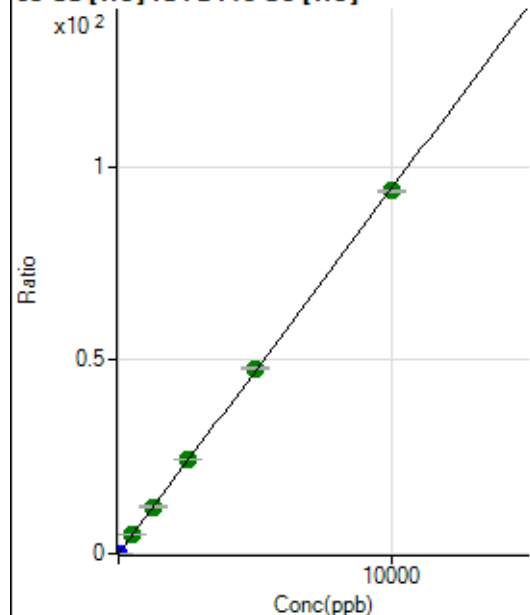
$$R = 0.9999$$

$$DL = 0.06374$$

$$BEC = 0.4048$$

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	1441.19	0.0035	P	3.8
2	☐	2.000	2.075	9426.37	0.0231	P	1.5
3	☐	500.000	541.250	2022298.95	5.1046	A	3.7
4	☐	1250.000	1285.599	4777277.40	12.1197	A	0.9
5	☐	2500.000	2580.788	9341889.10	24.3263	A	0.7
6	☐	5000.000	5075.372	18237497.09	47.8367	A	1.0
7	☐	10000.000	9935.604	36368167.79	93.6422	A	0.4
8	☐			7959.95	0.0205	P	1.5

$$y = 0.0094 * x + 0.0035$$

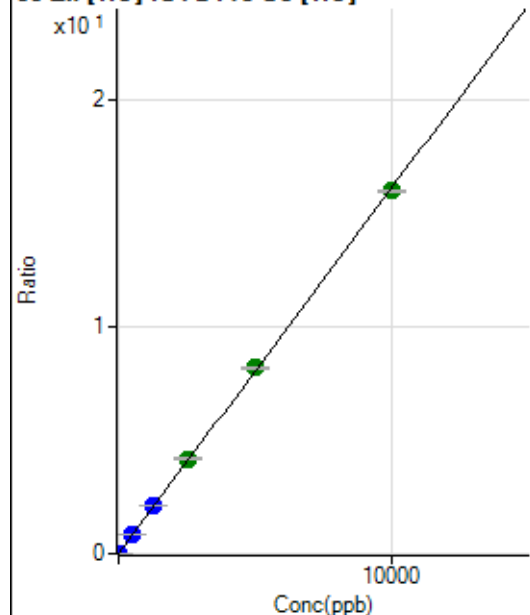
$$R = 0.9999$$

$$DL = 0.04234$$

$$BEC = 0.3754$$

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	1654.55	0.0041	P	2.8
2	☐	5.000	3.987	4276.20	0.0105	P	2.3
3	☐	500.000	538.562	344850.96	0.8704	P	3.2
4	☐	1250.000	1300.236	826005.20	2.0955	P	1.1
5	☐	2500.000	2584.588	1598087.37	4.1615	A	1.5
6	☐	5000.000	5086.865	3120897.35	8.1865	A	1.2
7	☐	10000.000	9927.213	6203269.14	15.9724	A	0.2
8	☐			2050.16	0.0053	P	4.5

$$y = 0.0016 * x + 0.0041$$

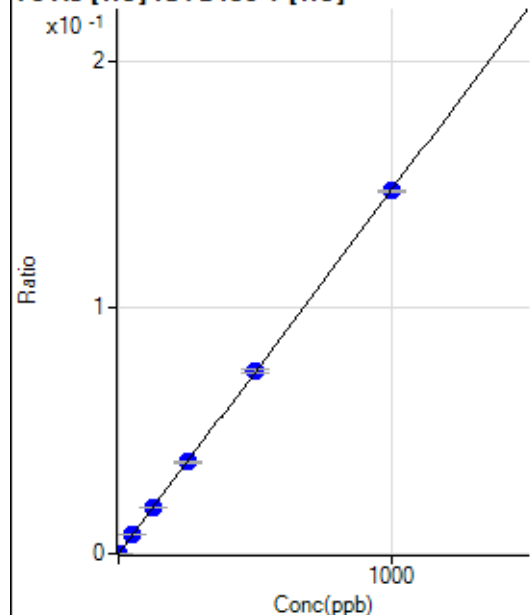
$$R = 0.9999$$

$$DL = 0.2085$$

$$BEC = 2.526$$

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	15.55	0.0000	P	44.3
2	☐	1.000	0.945	480.01	0.0001	P	4.5
3	☐	50.000	53.919	25948.28	0.0080	P	3.8
4	☐	125.000	128.037	61715.21	0.0189	P	1.6
5	☐	250.000	251.901	120984.55	0.0372	P	1.6
6	☐	500.000	502.095	239549.54	0.0742	P	1.3
7	☐	1000.000	997.902	483779.15	0.1475	P	0.9
8	☐			298.90	0.0001	P	3.4

$$y = 1.4780E-004 * x + 4.6473E-006$$

$$R = 1.0000$$

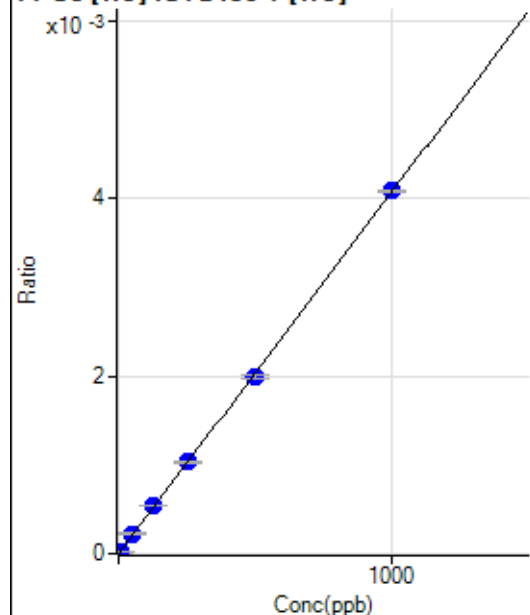
$$DL = 0.04176$$

$$BEC = 0.03144$$

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	5.094	70.00	0.0000	P	4.8
3	☐	50.000	53.736	713.36	0.0002	P	8.4
4	☐	125.000	131.219	1741.23	0.0005	P	0.9
5	☐	250.000	253.597	3351.52	0.0010	P	2.8
6	☐	500.000	488.432	6412.55	0.0020	P	1.7
7	☐	1000.000	1003.920	13391.71	0.0041	P	0.3
8	☐			5.55	0.0000	P	124.

$$y = 4.0665\text{E-}006 * x + 3.3107\text{E-}007$$

$$R = 0.9999$$

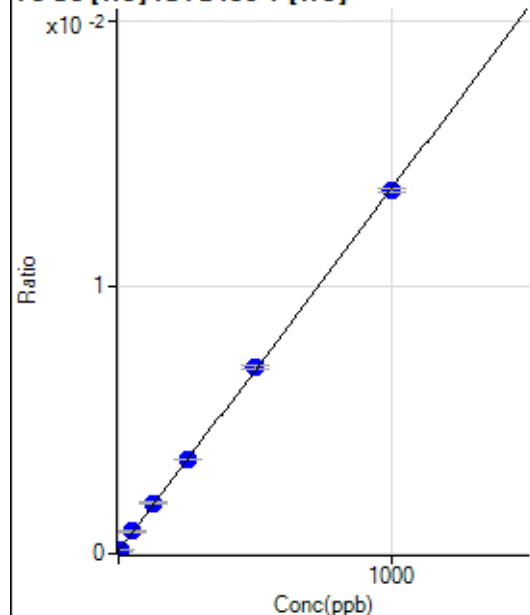
$$DL = 0.423$$

$$BEC = 0.08142$$

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	281.12	0.0001	P	9.6
2	☐	5.000	5.409	524.46	0.0002	P	3.0
3	☐	50.000	55.816	2741.39	0.0008	P	8.0
4	☐	125.000	133.411	6188.01	0.0019	P	3.8
5	☐	250.000	253.109	11457.86	0.0035	P	0.8
6	☐	500.000	507.422	22546.11	0.0070	P	1.5
7	☐	1000.000	994.167	44621.39	0.0136	P	1.1
8	☐			254.45	0.0001	P	8.1

$$y = 1.3598\text{E-}005 * x + 8.4127\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.774$$

$$BEC = 6.187$$

Weight: <None>

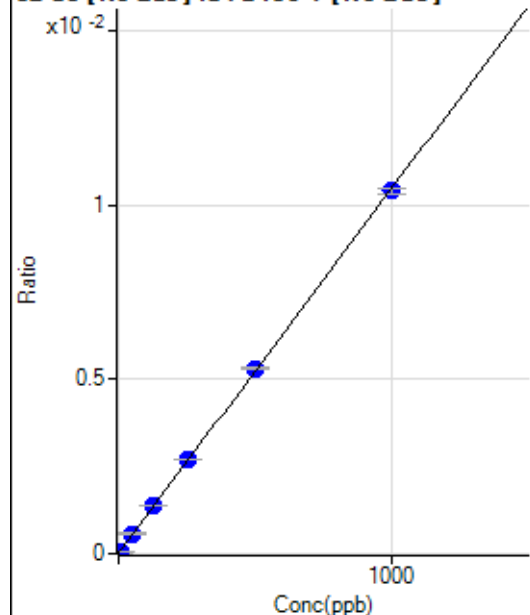
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7724.31		P	2.5
2	☐			7694.29		P	0.9
3	☐			7625.38		P	1.9
4	☐			7324.10		P	0.9
5	☐			6985.04		P	3.9
6	☐			6809.40		P	3.3
7	☐			7053.97		P	1.7
8	☐			8209.02		P	2.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			93.33		P	28.4
2	☐			85.56		P	2.3
3	☐			88.89		P	17.7
4	☐			85.56		P	9.8
5	☐			102.22		P	29.6
6	☐			84.45		P	12.7
7	☐			100.00		P	20.3
8	☐			104.44		P	1.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.64	0.0000	P	13.0
2	☐	5.000	5.389	965.85	0.0001	P	3.0
3	☐	50.000	54.059	8431.98	0.0006	P	1.9
4	☐	125.000	130.976	19787.33	0.0014	P	1.0
5	☐	250.000	256.166	38663.21	0.0027	P	1.0
6	☐	500.000	506.974	75033.38	0.0053	P	0.8
7	☐	1000.000	994.020	147826.41	0.0104	P	1.9
8	☐			377.34	0.0000	P	14.9

$$y = 1.0460\text{E-}005 * x + 1.1006\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.4107$$

$$BEC = 1.052$$

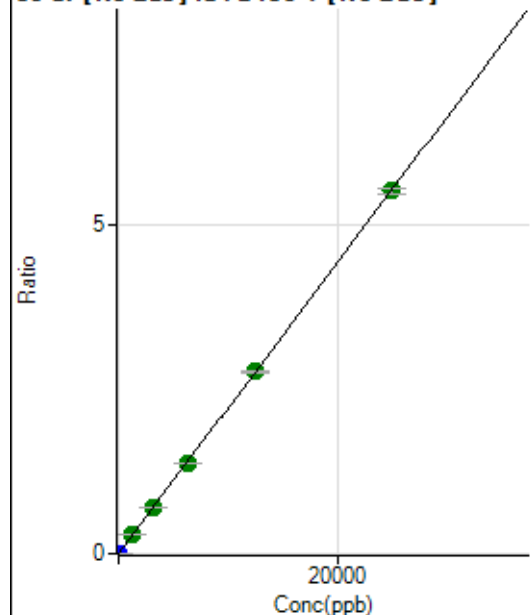
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			172.22		P	9.1
2	☐			181.11		P	10.1
3	☐			157.78		P	14.4
4	☐			154.45		P	6.6
5	☐			140.00		P	14.3
6	☐			174.45		P	15.4
7	☐			174.45		P	11.5
8	☐			203.34		P	12.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	363.34	0.0000	P	5.5
2	☐	1.000	1.059	3719.39	0.0003	P	2.9
3	☐	1250.000	1284.302	4157583.06	0.2842	A	1.4
4	☐	3125.000	3194.472	10129281.59	0.7069	A	0.9
5	☐	6250.000	6256.048	19894568.17	1.3844	A	0.4
6	☐	12500.000	12541.486	39188003.58	2.7753	A	0.6
7	☐	25000.000	24967.346	78470791.61	5.5250	A	1.6
8	☐			11608.00	0.0009	P	1.6

$$y = 2.2129\text{E-}004 * x + 2.5210\text{E-}005$$

$$R = 1.0000$$

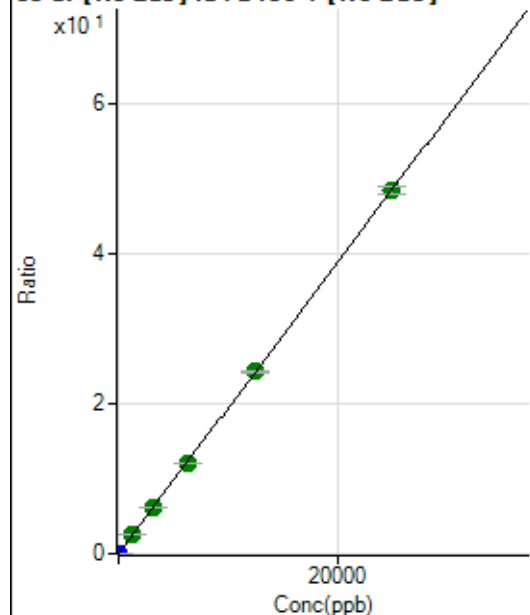
$$DL = 0.01887$$

$$BEC = 0.1139$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	594.47	0.0000	P	2.0
2	☐	1.000	1.032	29305.89	0.0020	P	0.8
3	☐	1250.000	1277.484	36259604.74	2.4786	A	0.8
4	☐	3125.000	3152.676	87644395.36	6.1169	A	0.8
5	☐	6250.000	6234.934	173839612.9	12.0971	A	0.5
6	☐	12500.000	12540.848	343569963.7	24.3319	A	0.7
7	☐	25000.000	24978.509	688295909.7	48.4636	A	2.1
8	☐			98335.74	0.0073	P	1.9

$$y = 0.0019 * x + 4.1250\text{E-}005$$

$$R = 1.0000$$

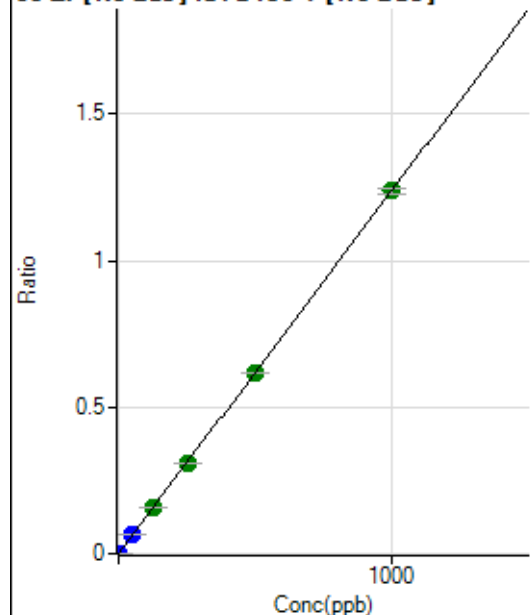
$$DL = 0.001296$$

$$BEC = 0.02126$$

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	621.13	0.0000	P	4.9
2	☐	1.000	0.943	17354.79	0.0012	P	1.3
3	☐	50.000	50.741	919547.84	0.0629	P	1.4
4	☐	125.000	125.906	2234099.31	0.1559	A	0.4
5	☐	250.000	250.069	4449786.63	0.3096	A	1.3
6	☐	500.000	498.998	8724024.32	0.6178	A	0.6
7	☐	1000.000	1000.334	17590812.65	1.2385	A	1.3
8	☐			9267.46	0.0007	P	2.3

$$y = 0.0012 * x + 4.3103E-005$$

$$R = 1.0000$$

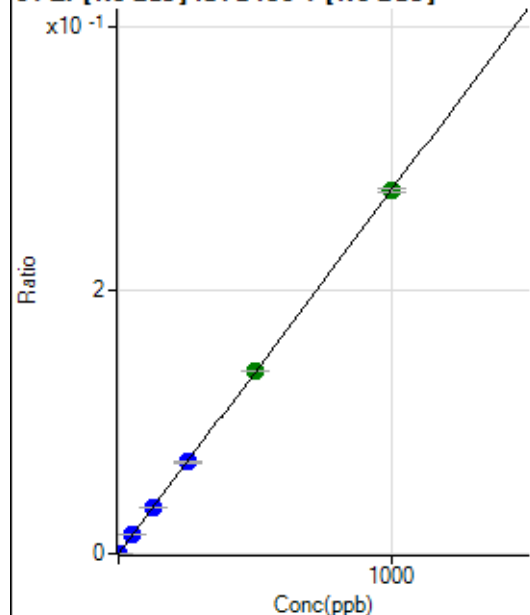
$$DL = 0.005099$$

$$BEC = 0.03482$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	13.7
2	☐	1.000	0.901	3668.27	0.0003	P	1.7
3	☐	50.000	50.889	205202.88	0.0140	P	1.5
4	☐	125.000	126.460	499343.42	0.0348	P	0.3
5	☐	250.000	251.249	994887.42	0.0692	P	0.4
6	☐	500.000	503.198	1957726.33	0.1386	A	0.4
7	☐	1000.000	997.862	3905011.92	0.2749	A	1.0
8	☐			1987.93	0.0001	P	1.1

$$y = 2.7551E-004 * x + 7.7110E-006$$

$$R = 1.0000$$

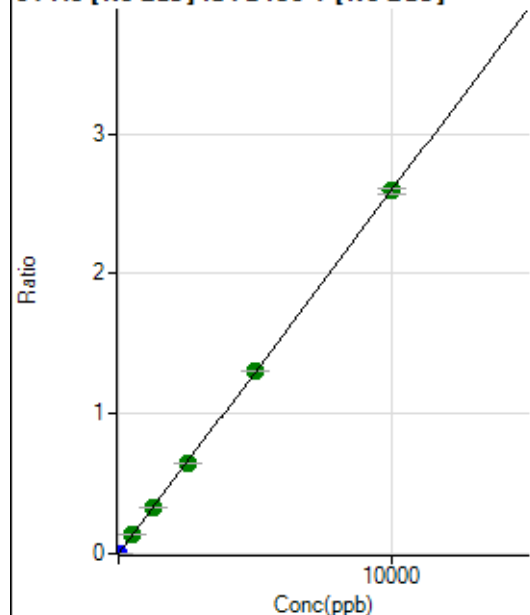
$$DL = 0.01152$$

$$BEC = 0.02799$$

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	304.45	0.0000	P	3.1
2	☐	5.000	5.532	20884.95	0.0015	P	0.3
3	☐	500.000	506.955	1925017.72	0.1316	A	1.6
4	☐	1250.000	1257.851	4678349.48	0.3265	A	0.8
5	☐	2500.000	2496.390	9311557.64	0.6480	A	0.2
6	☐	5000.000	5023.126	18409673.89	1.3038	A	0.5
7	☐	10000.000	9988.010	36819391.39	2.5924	A	1.7
8	☐			10589.45	0.0008	P	2.6

$$y = 2.5955\text{E-}004 * x + 2.1123\text{E-}005$$

R = 1.0000

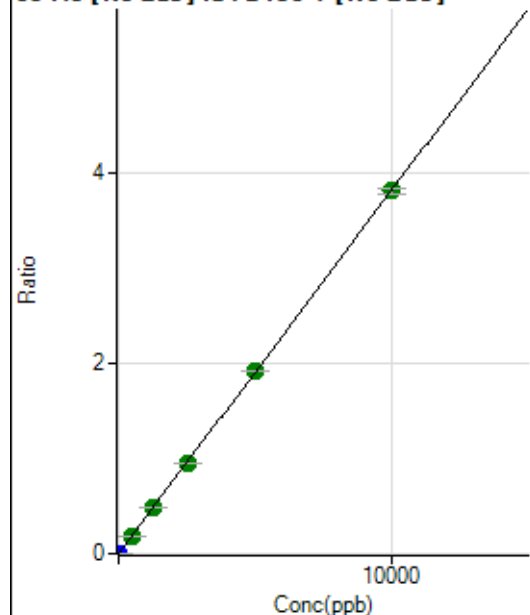
DL = 0.007549

BEC = 0.08138

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	248.90	0.0000	P	7.4
2	☐	5.000	4.498	24821.11	0.0017	P	1.6
3	☐	500.000	500.454	2790462.98	0.1908	A	0.6
4	☐	1250.000	1254.121	6848670.73	0.4780	A	0.9
5	☐	2500.000	2489.660	13635731.46	0.9489	A	0.8
6	☐	5000.000	5026.799	27051868.76	1.9158	A	0.8
7	☐	10000.000	9988.648	54067691.42	3.8069	A	1.9
8	☐			11978.33	0.0009	P	1.6

$$y = 3.8112\text{E-}004 * x + 1.7268\text{E-}005$$

R = 1.0000

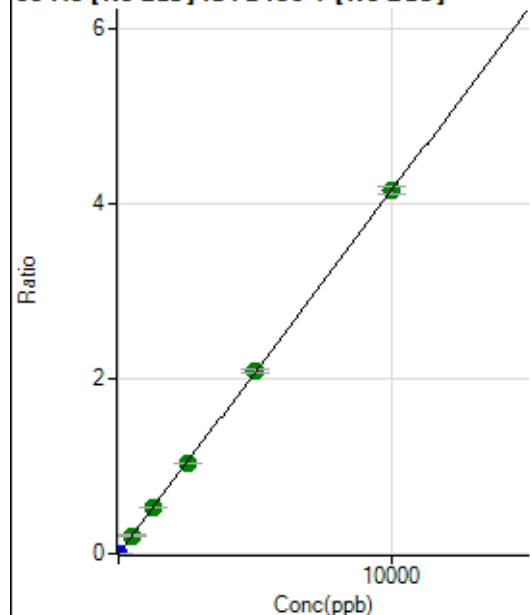
DL = 0.01009

BEC = 0.04531

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	325.56	0.0000	P	11.5
2	☐	5.000	4.629	27832.08	0.0019	P	0.7
3	☐	500.000	500.621	3036006.59	0.2075	A	1.3
4	☐	1250.000	1262.683	7500043.15	0.5234	A	0.6
5	☐	2500.000	2476.705	14753654.78	1.0267	A	1.0
6	☐	5000.000	5022.207	29395231.51	2.0819	A	1.7
7	☐	10000.000	9993.104	58832089.68	4.1424	A	2.2
8	☐			22101.21	0.0016	P	1.5

$$y = 4.1453\text{E-}004 * x + 2.2590\text{E-}005$$

$$R = 1.0000$$

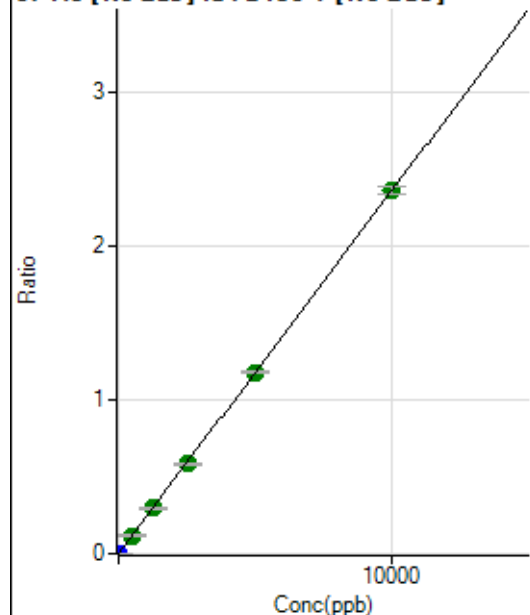
$$DL = 0.01882$$

$$BEC = 0.0545$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	167.78	0.0000	P	7.4
2	☐	5.000	4.558	15597.30	0.0011	P	0.5
3	☐	500.000	502.443	1735891.42	0.1187	A	2.1
4	☐	1250.000	1248.021	4223682.85	0.2948	A	0.3
5	☐	2500.000	2471.697	8389256.26	0.5838	A	1.0
6	☐	5000.000	5005.149	16691829.75	1.1821	A	1.0
7	☐	10000.000	10004.627	33558984.50	2.3629	A	2.1
8	☐			7315.23	0.0005	P	0.8

$$y = 2.3618\text{E-}004 * x + 1.1644\text{E-}005$$

$$R = 1.0000$$

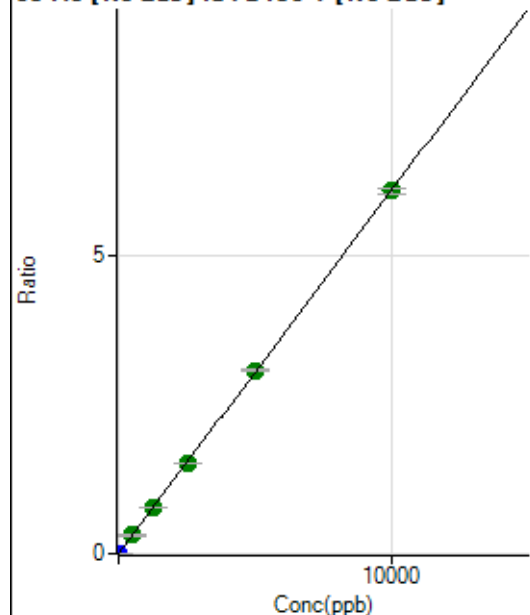
$$DL = 0.01097$$

$$BEC = 0.0493$$

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	394.46	0.0000	P	12.8
2	☐	5.000	4.548	40078.27	0.0028	P	1.3
3	☐	500.000	502.915	4479048.30	0.3062	A	1.3
4	☐	1250.000	1253.033	10930368.45	0.7628	A	0.3
5	☐	2500.000	2489.966	21783847.17	1.5159	A	0.4
6	☐	5000.000	5034.491	43276731.58	3.0649	A	0.9
7	☐	10000.000	9984.738	86330444.27	6.0785	A	1.9
8	☐			18636.41	0.0014	P	0.4

$$y = 6.0878\text{E-}004 * x + 2.7380\text{E-}005$$

$$R = 1.0000$$

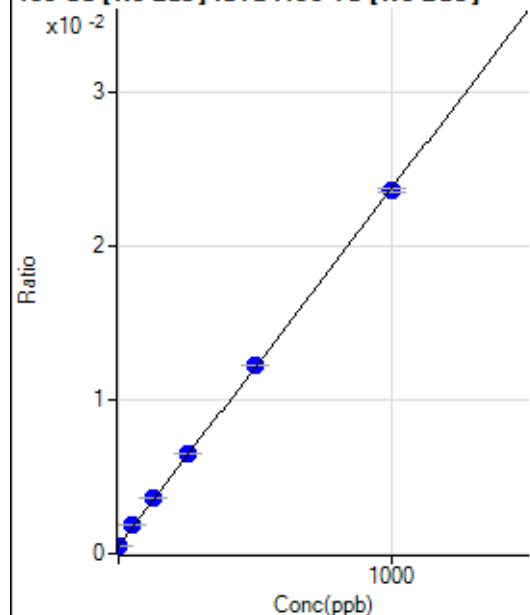
$$DL = 0.01727$$

$$BEC = 0.04498$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5195.42	0.0005	P	1.5
2	☐	1.000	0.953	5398.83	0.0005	P	6.8
3	☐	50.000	57.184	19116.02	0.0018	P	0.7
4	☐	125.000	133.895	38061.99	0.0036	P	1.5
5	☐	250.000	258.665	70165.03	0.0065	P	0.5
6	☐	500.000	505.537	133119.56	0.0123	P	0.4
7	☐	1000.000	993.594	257606.62	0.0236	P	1.0
8	☐			4647.45	0.0005	P	3.5

$$y = 2.3267\text{E-}005 * x + 5.1140\text{E-}004$$

$$R = 0.9999$$

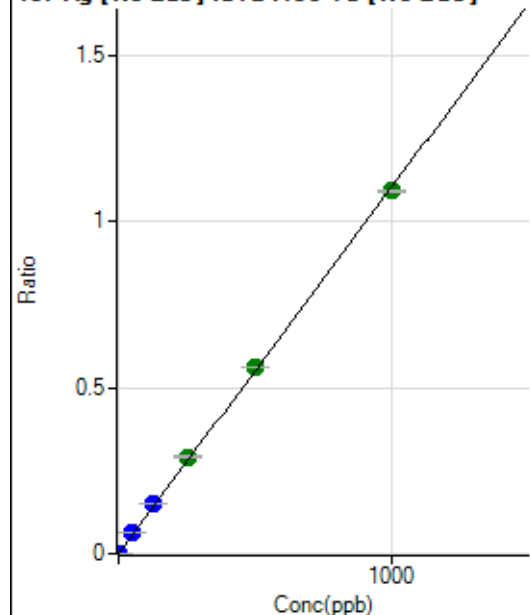
$$DL = 0.9969$$

$$BEC = 21.98$$

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	68.89	0.0000	P	17.2
2	☐	1.000	1.045	11723.71	0.0012	P	0.9
3	☐	50.000	56.212	643204.95	0.0620	P	1.3
4	☐	125.000	135.370	1566371.68	0.1492	P	0.8
5	☐	250.000	263.297	3119272.62	0.2903	A	1.6
6	☐	500.000	509.207	6088639.42	0.5614	A	0.7
7	☐	1000.000	990.465	11904465.93	1.0920	A	0.8
8	☐			1195.62	0.0001	P	7.0

$$y = 0.0011 * x + 6.7833E-006$$

$$R = 0.9998$$

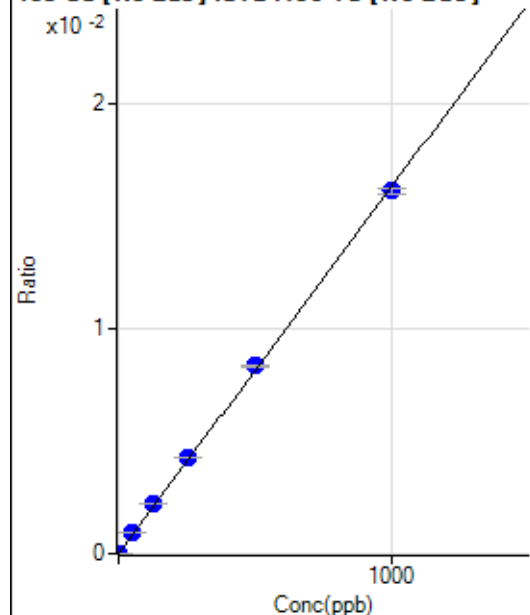
$$DL = 0.003183$$

$$BEC = 0.006153$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15.56	0.0000	P	33.0
2	☐	1.000	1.083	194.45	0.0000	P	16.3
3	☐	50.000	56.080	9525.44	0.0009	P	2.8
4	☐	125.000	137.031	23518.05	0.0022	P	0.9
5	☐	250.000	261.130	45868.85	0.0043	P	1.0
6	☐	500.000	513.308	90992.84	0.0084	P	1.0
7	☐	1000.000	988.756	176166.33	0.0162	P	1.5
8	☐			88.89	0.0000	P	9.5

$$y = 1.6341E-005 * x + 1.5322E-006$$

$$R = 0.9998$$

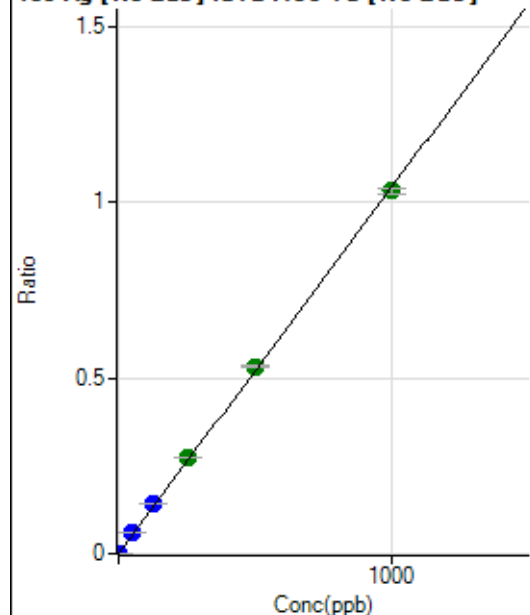
$$DL = 0.09269$$

$$BEC = 0.09376$$

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	42.22	0.0000	P	18.4
2	☐	1.000	1.048	11095.44	0.0011	P	3.2
3	☐	50.000	56.295	608936.21	0.0587	P	1.0
4	☐	125.000	135.740	1484770.03	0.1415	P	0.6
5	☐	250.000	261.181	2924983.60	0.2722	A	0.6
6	☐	500.000	509.816	5762753.87	0.5313	A	1.0
7	☐	1000.000	990.639	11255373.17	1.0324	A	1.6
8	☐			1085.61	0.0001	P	14.7

$$y = 0.0010 * x + 4.1574E-006$$

$$R = 0.9998$$

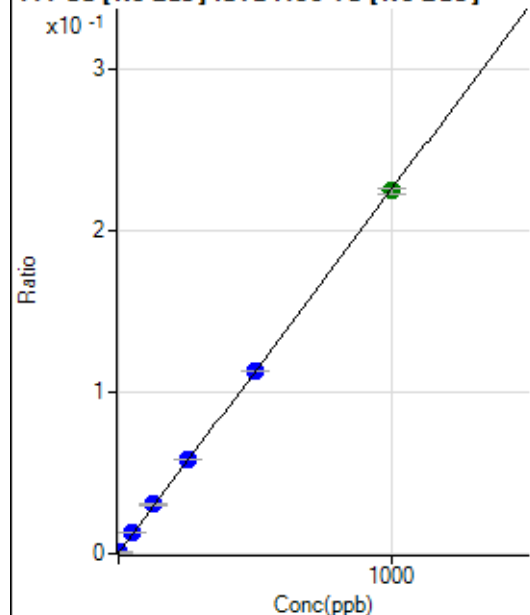
$$DL = 0.002205$$

$$BEC = 0.003989$$

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	3652.57	0.0004	P	1.8
2	☐	1.000	1.079	6097.75	0.0006	P	5.3
3	☐	50.000	55.150	132730.51	0.0128	P	0.6
4	☐	125.000	133.319	319121.05	0.0304	P	1.0
5	☐	250.000	257.459	627353.94	0.0584	P	0.9
6	☐	500.000	501.800	1230493.93	0.1135	P	0.0
7	☐	1000.000	995.938	2451016.74	0.2248	A	1.9
8	☐			3572.12	0.0003	P	2.6

$$y = 2.2537E-004 * x + 3.5953E-004$$

$$R = 0.9999$$

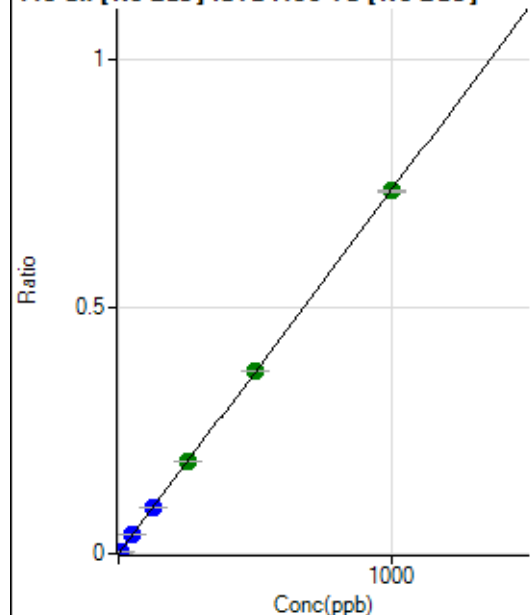
$$DL = 0.08712$$

$$BEC = 1.595$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1436.75	0.0001	P	1.3
2	☐	5.000	5.201	40179.21	0.0040	P	1.0
3	☐	50.000	53.224	408266.49	0.0393	P	1.3
4	☐	125.000	128.754	996660.73	0.0950	P	0.6
5	☐	250.000	253.361	2006511.50	0.1867	A	0.8
6	☐	500.000	501.379	4006469.11	0.3694	A	0.5
7	☐	1000.000	997.839	8013473.98	0.7350	A	0.7
8	☐			5543.34	0.0005	P	4.6

$$y = 7.3646\text{E-}004 * x + 1.4143\text{E-}004$$

$$R = 1.0000$$

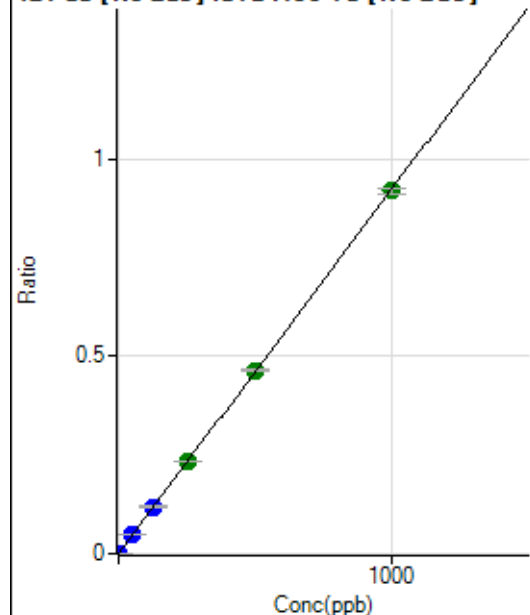
$$DL = 0.007727$$

$$BEC = 0.192$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	106.67	0.0000	P	8.0
2	☐	2.000	2.041	19145.07	0.0019	P	1.6
3	☐	50.000	52.756	504992.26	0.0487	P	1.1
4	☐	125.000	128.773	1246383.40	0.1188	P	0.9
5	☐	250.000	255.602	2532946.91	0.2357	A	0.1
6	☐	500.000	503.842	5039565.62	0.4646	A	0.9
7	☐	1000.000	996.069	10013668.95	0.9185	A	1.4
8	☐			6554.88	0.0006	P	6.0

$$y = 9.2215\text{E-}004 * x + 1.0499\text{E-}005$$

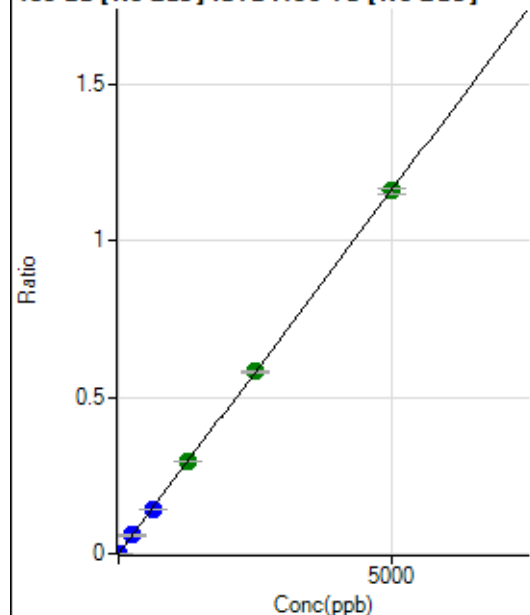
$$R = 1.0000$$

$$DL = 0.002743$$

$$BEC = 0.01138$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.55	0.0000	P	12.6
2	☐	10.000	9.914	23363.67	0.0023	P	1.2
3	☐	250.000	253.357	609813.94	0.0588	P	1.7
4	☐	625.000	619.022	1506676.00	0.1436	P	0.6
5	☐	1250.000	1271.447	3168264.68	0.2949	A	1.3
6	☐	2500.000	2505.892	6302762.48	0.5811	A	0.6
7	☐	5000.000	4992.272	12620700.92	1.1577	A	1.3
8	☐			5032.05	0.0005	P	4.6

$$y = 2.3189\text{E-}004 * x + 1.0389\text{E-}005$$

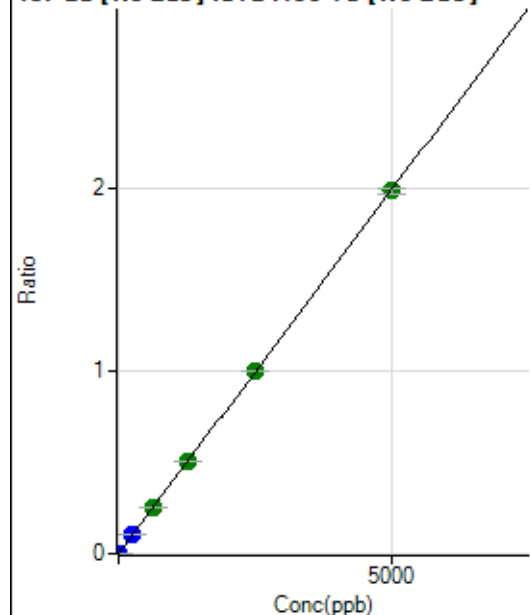
$$R = 1.0000$$

$$DL = 0.01699$$

$$BEC = 0.0448$$

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	155.56	0.0000	P	5.0
2	☐	10.000	10.034	40498.58	0.0040	P	0.9
3	☐	250.000	254.049	1047971.79	0.1010	P	1.4
4	☐	625.000	643.854	2685787.64	0.2559	A	0.5
5	☐	1250.000	1271.291	5429128.88	0.5053	A	1.3
6	☐	2500.000	2508.076	10811059.00	0.9968	A	0.5
7	☐	5000.000	4988.080	21611836.62	1.9824	A	1.3
8	☐			8657.15	0.0008	P	2.0

$$y = 3.9743\text{E-}004 * x + 1.5313\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.005772$$

$$BEC = 0.03853$$

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	45.8
2	☐			15.56		P	32.7
3	☐			47.78		P	31.5
4	☐			90.00		P	19.2
5	☐			187.78		P	8.8
6	☐			320.01		P	22.2
7	☐			591.13		P	3.7
8	☐			210.01		P	30.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			4.44		P	43.4
3	☐			10.00		P	66.7
4	☐			30.00		P	29.4
5	☐			45.56		P	27.7
6	☐			95.56		P	10.1
7	☐			168.89		P	9.1
8	☐			123.34		P	9.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	30.7
2	☐			35.56		P	14.3
3	☐			70.00		P	23.8
4	☐			88.89		P	26.6
5	☐			124.45		P	19.7
6	☐			216.67		P	25.6
7	☐			355.56		P	9.5
8	☐			361.12		P	13.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			13.33		P	25.0
3	☐			52.22		P	16.1
4	☐			92.22		P	17.1
5	☐			162.23		P	17.5
6	☐			316.68		P	15.9
7	☐			647.80		P	7.0
8	☐			297.78		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			102.22		P	30.1
2	☐			86.67		P	10.2
3	☐			108.89		P	7.1
4	☐			98.89		P	10.3
5	☐			147.78		P	29.0
6	☐			174.45		P	16.7
7	☐			257.78		P	1.5
8	☐			382.23		P	10.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			376.68		P	8.7
2	☐			446.68		P	3.9
3	☐			432.23		P	1.6
4	☐			405.57		P	5.5
5	☐			407.79		P	11.9
6	☐			450.01		P	7.8
7	☐			560.02		P	10.2
8	☐			624.47		P	10.7

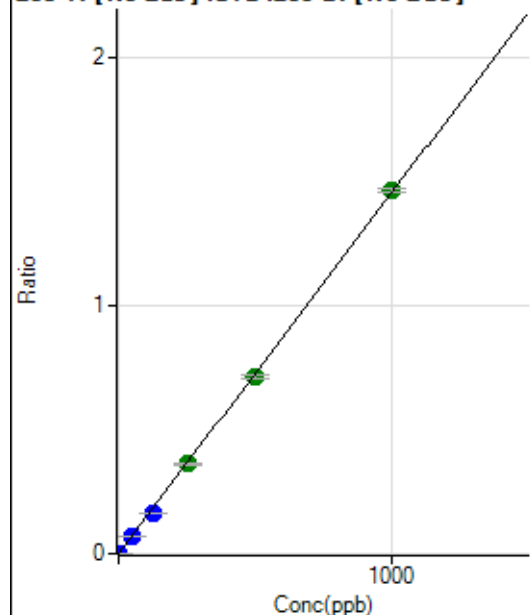
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			395.57		P	17.1
2	☐			367.79		P	5.5
3	☐			388.90		P	7.3
4	☐			416.68		P	4.2
5	☐			466.68		P	9.3
6	☐			528.91		P	5.3
7	☐			647.80		P	4.0
8	☐			636.69		P	18.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			92.22		P	26.6
2	☐			76.66		P	7.5
3	☐			98.89		P	10.8
4	☐			94.44		P	13.4
5	☐			131.11		P	43.3
6	☐			181.11		P	10.1
7	☐			232.22		P	13.0
8	☐			301.12		P	6.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	184.45	0.0000	P	14.0
2	☐	1.000	0.904	7566.61	0.0013	P	2.2
3	☐	50.000	46.061	387431.25	0.0670	P	0.5
4	☐	125.000	113.454	991663.67	0.1650	P	0.9
5	☐	250.000	248.977	2201977.54	0.3621	A	0.9
6	☐	500.000	491.760	4464492.81	0.7152	A	2.1
7	☐	1000.000	1006.016	8934274.66	1.4632	A	1.1
8	☐			1054.50	0.0002	P	11.7

$$y = 0.0015 * x + 3.2442E-005$$

$$R = 0.9999$$

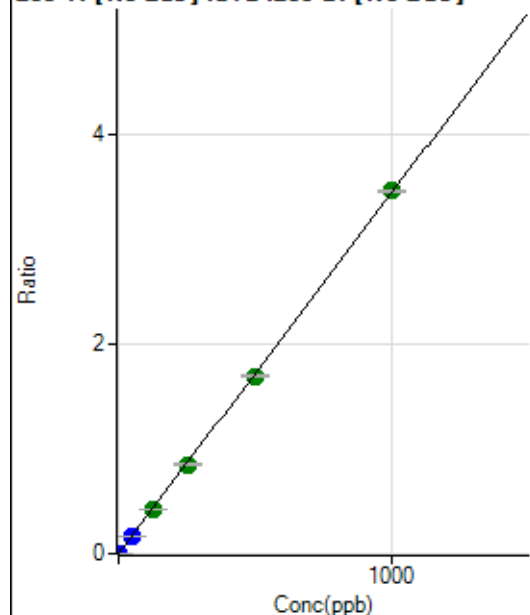
$$DL = 0.009366$$

$$BEC = 0.02231$$

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	390.01	0.0001	P	1.9
2	☐	1.000	0.883	17422.38	0.0031	P	2.0
3	☐	50.000	45.720	908840.69	0.1572	P	0.4
4	☐	125.000	121.732	2514554.48	0.4185	A	1.7
5	☐	250.000	246.357	5149216.14	0.8469	A	1.6
6	☐	500.000	492.365	10564491.02	1.6925	A	1.2
7	☐	1000.000	1005.351	21101999.13	3.4558	A	0.9
8	☐			2551.38	0.0005	P	7.9

$$y = 0.0034 * x + 6.8589E-005$$

$$R = 0.9999$$

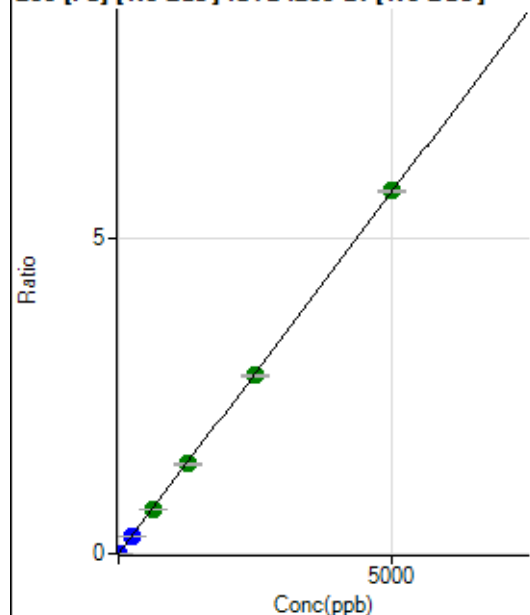
$$DL = 0.001133$$

$$BEC = 0.01995$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	432.23	0.0001	P	6.5
2	☐	1.000	0.892	6168.12	0.0011	P	2.1
3	☐	250.000	231.515	1532930.08	0.2652	P	1.0
4	☐	625.000	613.281	4220016.64	0.7023	A	1.0
5	☐	1250.000	1238.499	8623382.86	1.4183	A	1.4
6	☐	2500.000	2469.674	17652395.57	2.8280	A	1.2
7	☐	5000.000	5020.428	35104025.86	5.7488	A	0.8
8	☐			14303.17	0.0027	P	2.1

$$y = 0.0011 * x + 7.6031E-005$$

$$R = 1.0000$$

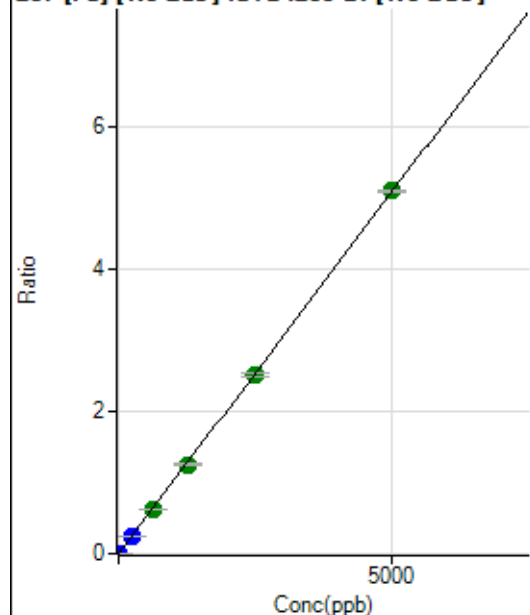
$$DL = 0.01301$$

$$BEC = 0.0664$$

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	338.90	0.0001	P	5.7
2	☐	1.000	0.892	5426.70	0.0010	P	1.6
3	☐	250.000	228.246	1341410.34	0.2321	P	1.0
4	☐	625.000	608.442	3716317.13	0.6185	A	1.0
5	☐	1250.000	1234.599	7630362.18	1.2549	A	1.3
6	☐	2500.000	2470.437	15672613.80	2.5110	A	1.8
7	☐	5000.000	5021.789	31168215.09	5.1043	A	0.5
8	☐			12401.31	0.0023	P	1.3

$$y = 0.0010 * x + 5.9618E-005$$

$$R = 1.0000$$

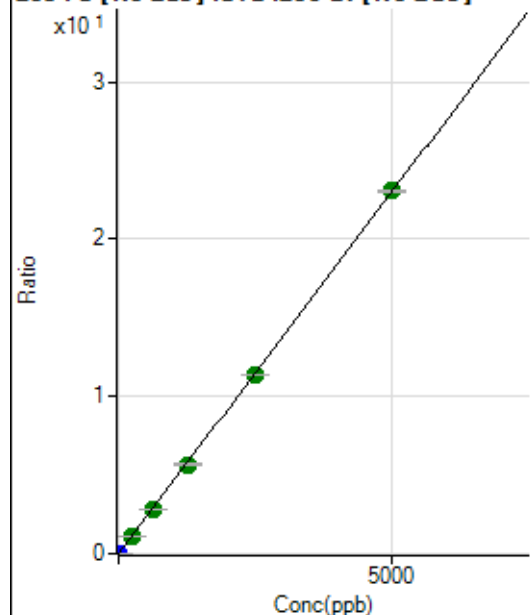
$$DL = 0.009944$$

$$BEC = 0.05866$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3010.28	0.0005	P	4.0
2	☐	1.000	0.880	25695.60	0.0046	P	0.8
3	☐	250.000	238.530	6339059.58	1.0966	A	1.4
4	☐	625.000	610.174	16850596.07	2.8043	A	0.6
5	☐	1250.000	1232.519	34440028.51	5.6640	A	1.1
6	☐	2500.000	2475.172	70996308.81	11.3741	A	0.9
7	☐	5000.000	5019.211	140836525.4	23.0642	A	0.2
8	☐			57972.74	0.0108	P	1.7

$$y = 0.0046 * x + 5.2931E-004$$

$$R = 1.0000$$

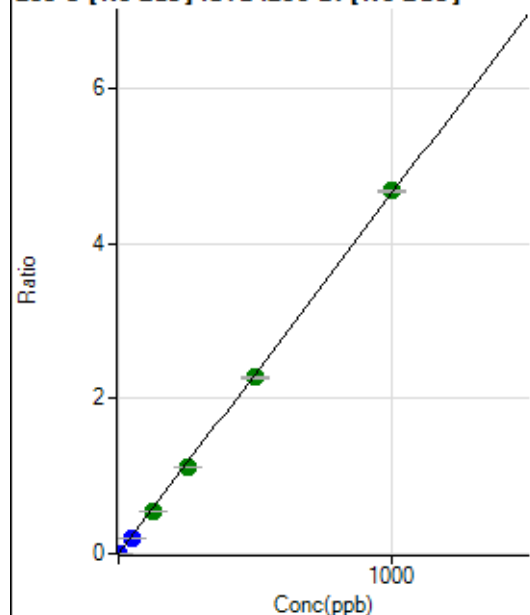
$$DL = 0.01367$$

$$BEC = 0.1152$$

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	93.33	0.0000	P	27.3
2	☐	1.000	0.817	21399.48	0.0038	P	2.1
3	☐	50.000	42.489	1141288.47	0.1974	P	1.4
4	☐	125.000	116.918	3264289.43	0.5433	A	1.9
5	☐	250.000	240.864	6804562.89	1.1191	A	1.5
6	☐	500.000	490.901	14237038.68	2.2809	A	1.0
7	☐	1000.000	1008.220	28604394.30	4.6845	A	0.6
8	☐			1300.08	0.0002	P	11.2

$$y = 0.0046 * x + 1.6376E-005$$

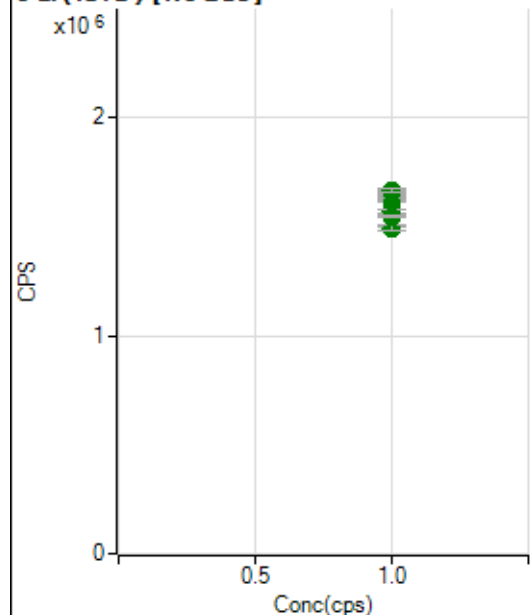
$$R = 0.9999$$

$$DL = 0.002882$$

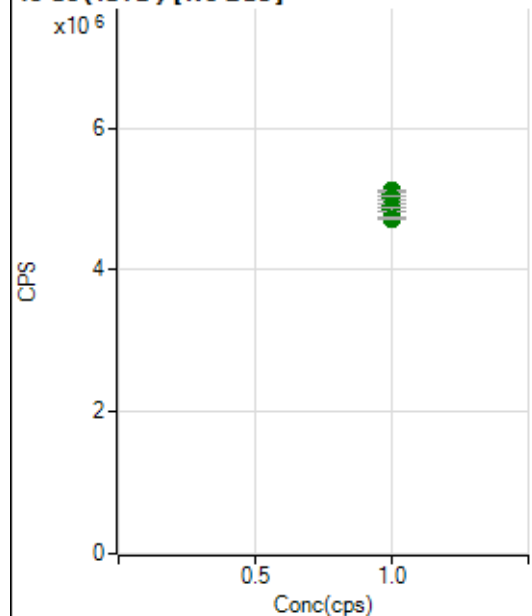
$$BEC = 0.003525$$

Weight: <None>

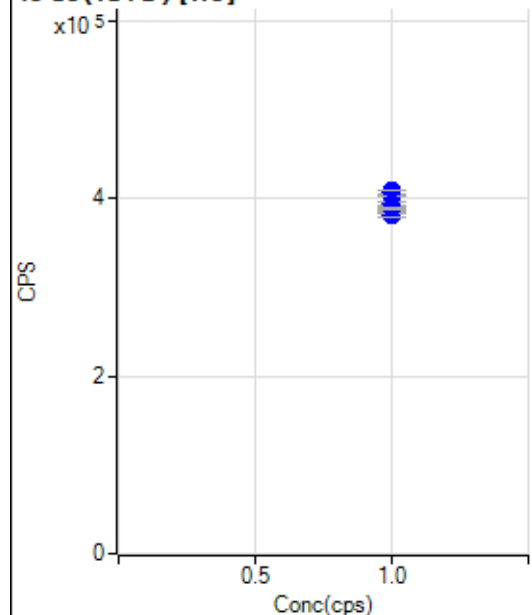
Min Conc: 0

6 Li (ISTD) [No Gas]

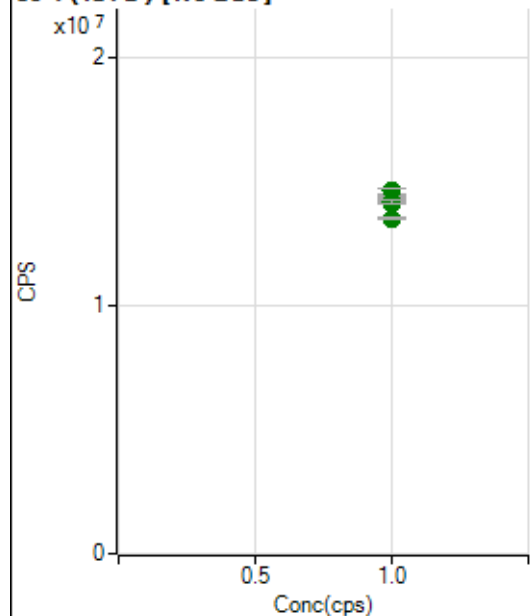
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1487356.75		A	1.1
2	☐	1.000		1493145.88		A	1.3
3	☐	1.000		1569586.71		A	1.3
4	☐	1.000		1615642.60		A	0.6
5	☐	1.000		1631356.47		A	0.4
6	☐	1.000		1655584.40		A	1.1
7	☐	1.000		1662384.19		A	1.1
8	☐	1.000		1543712.41		A	0.4

45 Sc (ISTD) [No Gas]

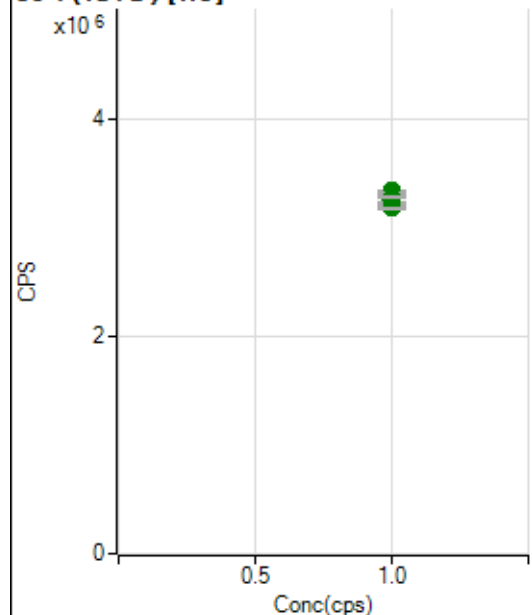
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5061950.13		A	1.3
2	☐	1.000		5044656.97		A	0.2
3	☐	1.000		5110957.11		A	0.3
4	☐	1.000		5004642.28		A	0.8
5	☐	1.000		4902022.36		A	0.8
6	☐	1.000		4823927.05		A	0.3
7	☐	1.000		4850535.00		A	1.0
8	☐	1.000		4725048.89		A	1.0

45 Sc (ISTD) [He]

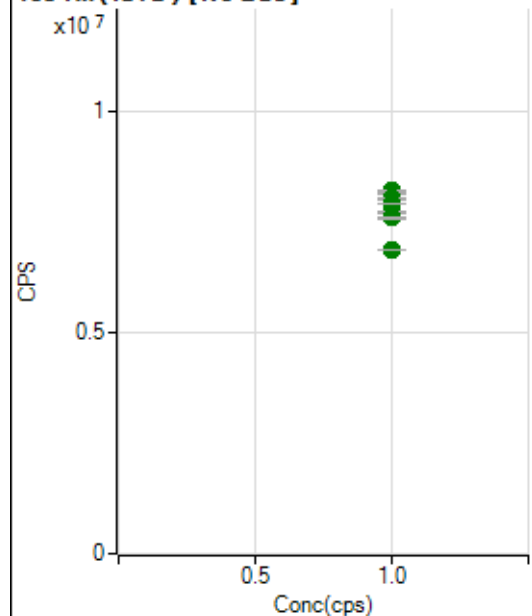
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		407230.26		P	0.8
2	☐	1.000		408128.11		P	0.1
3	☐	1.000		396474.94		P	3.2
4	☐	1.000		394191.90		P	0.8
5	☐	1.000		384028.12		P	0.2
6	☐	1.000		381240.11		P	1.1
7	☐	1.000		388374.57		P	0.1
8	☐	1.000		388589.11		P	0.4

89 Y (ISTD) [No Gas]

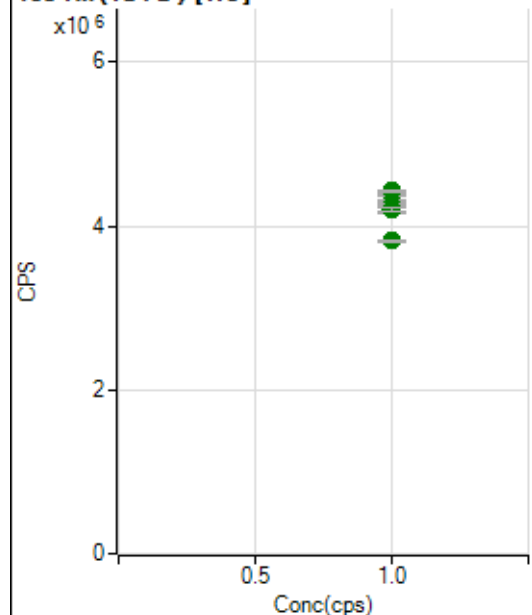
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14411891.59		A	0.5
2	☐	1.000		14334739.65		A	0.1
3	☐	1.000		14629474.37		A	1.4
4	☐	1.000		14328566.45		A	0.6
5	☐	1.000		14370484.51		A	0.3
6	☐	1.000		14120477.29		A	0.5
7	☐	1.000		14204589.93		A	1.2
8	☐	1.000		13512912.30		A	0.8

89 Y(ISTD) [He]

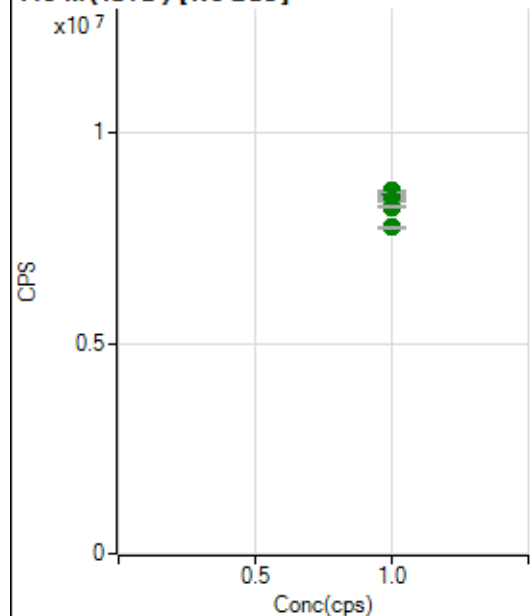
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3342665.30		A	0.7
2	☐	1.000		3325934.01		A	0.4
3	☐	1.000		3256471.13		A	2.9
4	☐	1.000		3260986.86		A	1.5
5	☐	1.000		3249635.23		A	1.2
6	☐	1.000		3228018.74		A	0.6
7	☐	1.000		3280119.95		A	0.5
8	☐	1.000		3182758.95		A	0.6

103 Rh(ISTD) [No Gas]

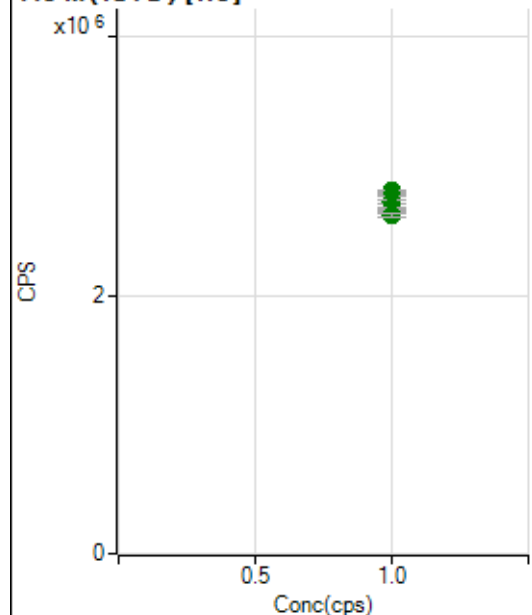
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8195883.42		A	0.2
2	☐	1.000		8136996.54		A	0.4
3	☐	1.000		8203223.14		A	0.7
4	☐	1.000		8034861.27		A	0.7
5	☐	1.000		7916678.22		A	0.1
6	☐	1.000		7714226.41		A	1.0
7	☐	1.000		7591499.12		A	0.7
8	☐	1.000		6861574.48		A	0.4

103 Rh (ISTD) [He]

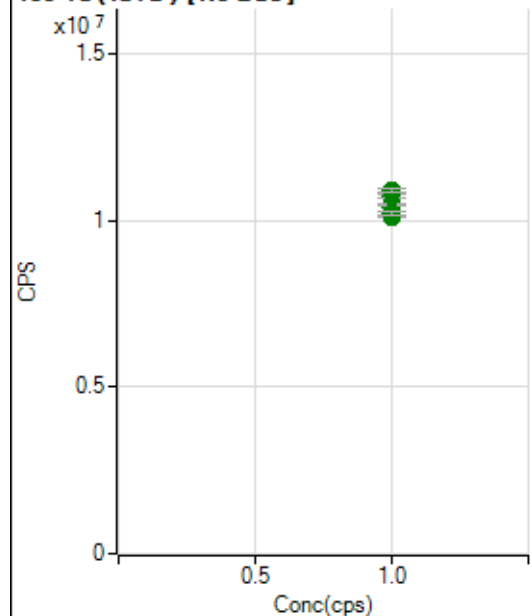
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4389963.58		A	0.6
2	☐	1.000		4426199.94		A	0.9
3	☐	1.000		4269487.96		A	4.3
4	☐	1.000		4302946.22		A	1.0
5	☐	1.000		4244398.58		A	0.9
6	☐	1.000		4206694.42		A	2.2
7	☐	1.000		4188646.47		A	1.1
8	☐	1.000		3816616.47		A	0.6

115 In (ISTD) [No Gas]

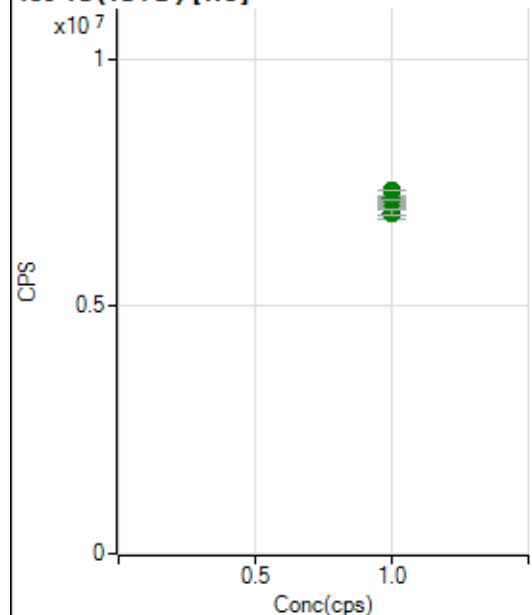
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8514260.58		A	0.7
2	☐	1.000		8463282.32		A	0.0
3	☐	1.000		8627469.23		A	0.7
4	☐	1.000		8534917.59		A	1.1
5	☐	1.000		8420066.05		A	0.6
6	☐	1.000		8368313.01		A	0.4
7	☐	1.000		8251019.96		A	0.5
8	☐	1.000		7770608.82		A	0.6

115 In (ISTD) [He]

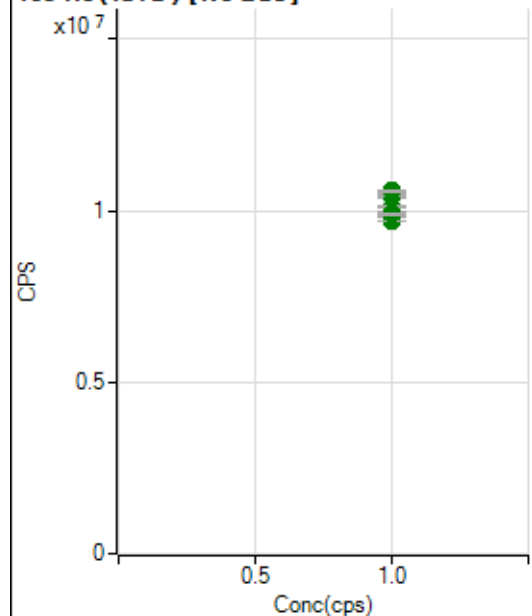
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2800672.98		A	0.9
2	☐	1.000		2806178.45		A	0.8
3	☐	1.000		2725158.07		A	4.3
4	☐	1.000		2769235.19		A	0.1
5	☐	1.000		2727969.27		A	1.1
6	☐	1.000		2673815.82		A	2.5
7	☐	1.000		2672493.53		A	0.5
8	☐	1.000		2612258.08		A	1.2

159 Tb (ISTD) [No Gas]

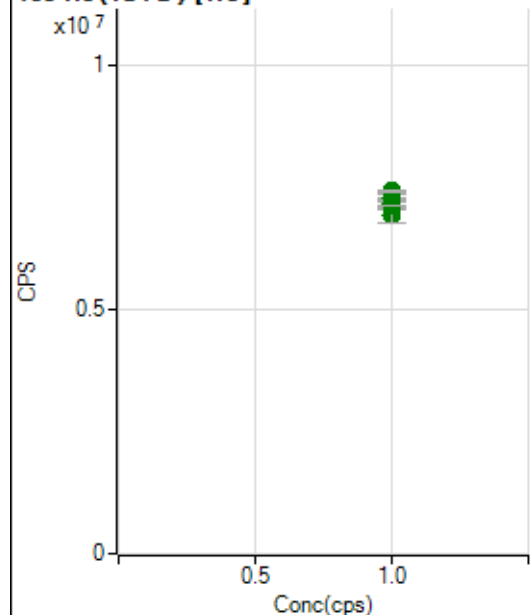
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10158882.55		A	0.3
2	☐	1.000		10116590.40		A	0.5
3	☐	1.000		10379074.36		A	1.3
4	☐	1.000		10495391.44		A	0.6
5	☐	1.000		10745764.08		A	0.7
6	☐	1.000		10845958.03		A	0.7
7	☐	1.000		10902558.45		A	1.0
8	☐	1.000		10249387.70		A	1.0

159 Tb (ISTD) [He]

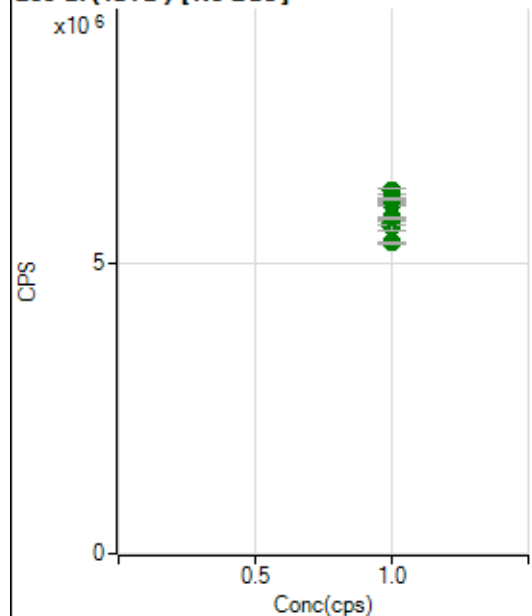
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6970197.60		A	0.4
2	☐	1.000		6993424.62		A	1.2
3	☐	1.000		6903701.98		A	3.4
4	☐	1.000		7102337.60		A	0.3
5	☐	1.000		7222798.23		A	0.4
6	☐	1.000		7209673.16		A	1.1
7	☐	1.000		7338990.31		A	0.1
8	☐	1.000		6887635.18		A	1.7

165 Ho (ISTD) [No Gas]

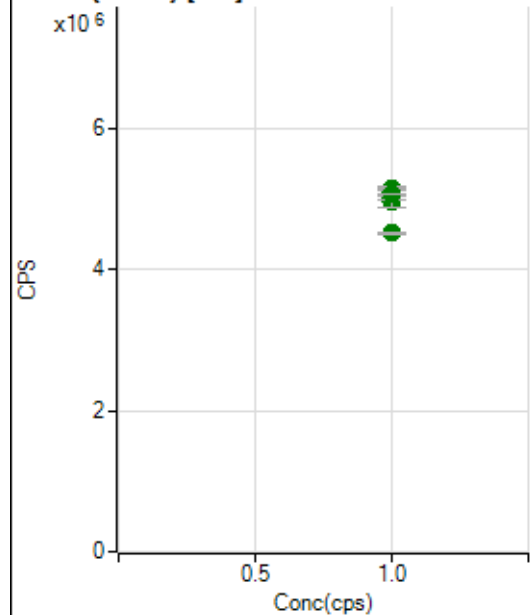
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9843567.63		A	1.1
2	☐	1.000		9720026.59		A	0.0
3	☐	1.000		9946571.24		A	0.1
4	☐	1.000		10099647.07		A	0.5
5	☐	1.000		10402354.85		A	0.6
6	☐	1.000		10462702.14		A	0.4
7	☐	1.000		10570223.66		A	0.9
8	☐	1.000		9904816.94		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7068140.93		A	0.7
2	☐	1.000		7062580.87		A	0.5
3	☐	1.000		6925587.74		A	4.1
4	☐	1.000		7171017.53		A	1.4
5	☐	1.000		7268258.02		A	0.6
6	☐	1.000		7283953.08		A	2.4
7	☐	1.000		7430839.89		A	0.8
8	☐	1.000		7131207.67		A	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5685387.48		A	1.4
2	☐	1.000		5616777.14		A	1.6
3	☐	1.000		5780581.51		A	0.5
4	☐	1.000		6008833.66		A	0.7
5	☐	1.000		6080808.45		A	1.1
6	☐	1.000		6242330.39		A	1.3
7	☐	1.000		6106275.33		A	0.3
8	☐	1.000		5352922.56		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4992881.98		A	0.5
2	☐	1.000		5017086.32		A	0.9
3	☐	1.000		4969239.54		A	3.6
4	☐	1.000		5093265.20		A	1.3
5	☐	1.000		5146786.69		A	1.1
6	☐	1.000		5069504.89		A	2.9
7	☐	1.000		5072071.63		A	0.3
8	☐	1.000		4527386.91		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7080724-MS1.b

Acq. Date-Time 2024-08-07 13:30:49

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7338	73375.01			1.360	5.000
24		41573	415728.82			0.551	5.000
25		5378	53783.94			0.619	5.000
26		6291	62910.26			0.687	5.000
59		81003	810033.30			0.533	5.000
113		11503	115027.89			1.091	5.000
115		135927	1359267.27			0.827	5.000
206		26233	262328.74			0.140	5.000
207		23800	237998.17			0.346	5.000
208		56086	560859.42			0.291	5.000
220		1	7.40			16.132	

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

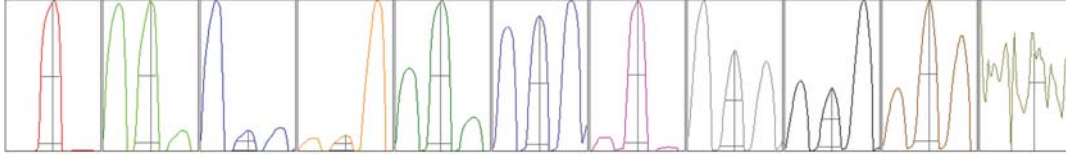
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7420	7448	7340	7269	7210
24	41285	41695	41866	41604	41415
25	5359	5408	5374	5415	5336
26	6293	6339	6298	6304	6221
59	81157	81583	81061	80792	80423
113	11673	11591	11447	11437	11366
115	136815	136740	136554	135264	134261
206	26275	26208	26208	26202	26271
207	23797	23845	23680	23901	23777
208	55997	56229	56139	56219	55846

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12239.99	9.00	8.90 - 9.10	
24	74079.72	24.05	23.90 - 24.10	
25	9854.81	25.05	24.90 - 25.10	
26	11419.40	26.05	25.90 - 26.10	
59	133856.92	58.95	58.90 - 59.10	
113	21110.14	113.00	112.90 - 113.10	
115	251612.57	115.05	114.90 - 115.10	
206	49677.52	206.00	205.90 - 206.10	
207	44744.49	207.00	206.90 - 207.10	
208	106046.89	208.00	207.90 - 208.10	
220	0.90	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.740	0.900	
24	0.60	0.775	0.900	
25	0.58	0.743	0.900	
26	0.56	0.774	0.900	
59	0.63	0.782	0.900	
113	0.56	0.729	0.900	
115	0.55	0.761	0.900	
206	0.55	0.756	0.900	
207	0.54	0.758	0.900	
208	0.54	0.783	0.900	
220	0.50			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.9 V	Deflect	16.2 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2323 V	Pulse HV	1448 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		25334	253341.70			0.242	
89		26771	267709.81			0.532	
205		30574	305742.30			0.188	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25378	25392	25316	25238	25346
89	26898	26902	26815	26609	26630
205	30520	30515	30595	30653	30588

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-160.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2323 V	Pulse HV	1448 V
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