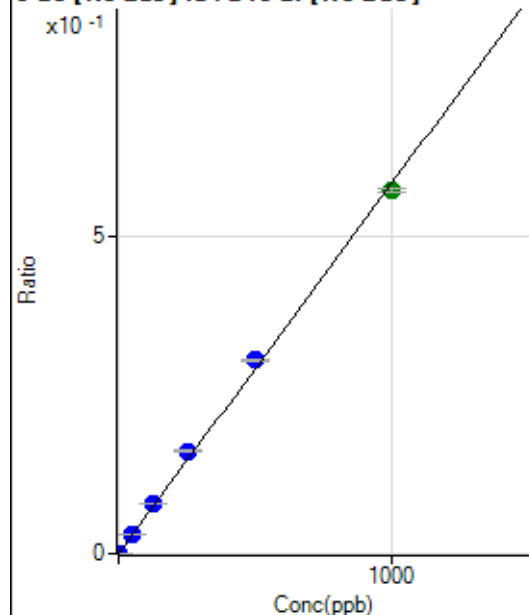


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7010524 MS.b\
 Analysis File: P7010524 MS.batch.bin
 DA Date-Time: 2024-01-05 14:13:32
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-01-05 12:15:03
2	005CALS.d	S02	2024-01-05 12:18:20
3	006CALS.d	S03	2024-01-05 12:21:37
4	007CALS.d	S04	2024-01-05 12:24:45
5	008CALS.d	S05	2024-01-05 12:27:46
6	009CALS.d	S06	2024-01-05 12:30:36
7	010CALS.d	S07	2024-01-05 12:33:26
8	012CALS.d	S08	2024-01-05 12:39:24

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.11	0.0000	P	18.5
2	☐	1.000	1.001	1310.07	0.0006	P	4.2
3	☐	50.000	54.190	68724.25	0.0316	P	1.0
4	☐	125.000	135.202	169835.57	0.0788	P	1.5
5	☐	250.000	277.031	339159.50	0.1613	P	1.7
6	☐	500.000	522.646	628183.69	0.3044	P	0.7
7	☐	1000.000	980.434	1168925.04	0.5710	A	1.0
8	☐			237.78	0.0001	P	10.8

$$y = 5.8235E-004 * x + 1.9083E-005$$

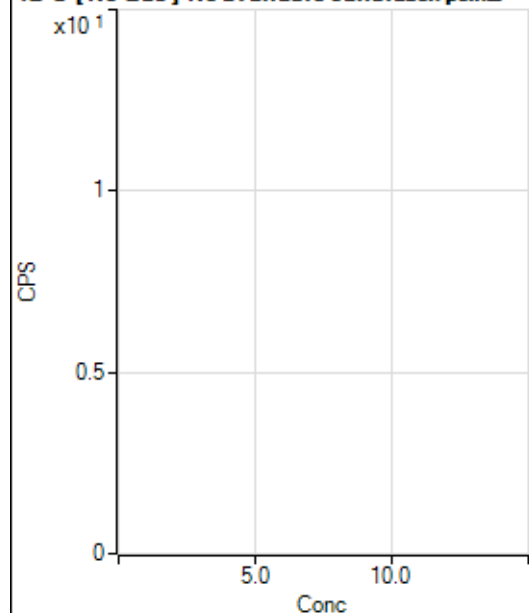
$$R = 0.9992$$

$$DL = 0.01818$$

$$BEC = 0.03277$$

Weight: <None>

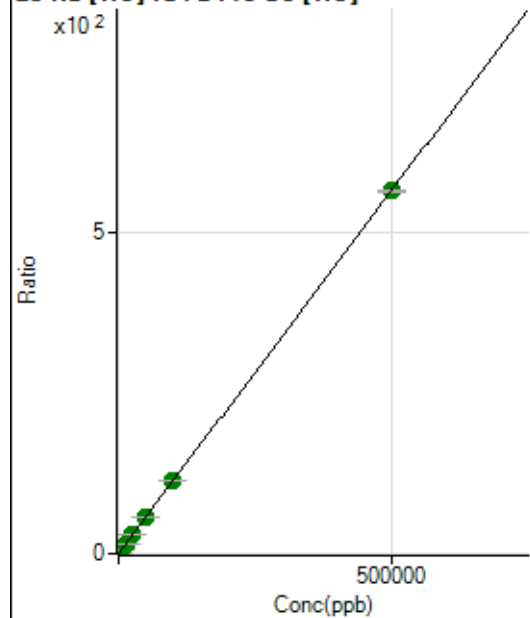
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8297.87	0.0291	P	5.6
2	☐	500.000	511.512	185265.33	0.6060	P	0.7
3	☐	5000.000	5166.196	1784076.33	5.8552	A	0.5
4	☐	12500.000	12904.828	4320370.04	14.5824	A	1.0
5	☐	25000.000	26438.958	8691879.66	29.8454	A	1.1
6	☐	50000.000	51118.673	16286853.64	57.6776	A	1.0
7	☐	100000.00	100632.56	32165417.85	113.5164	A	0.3
8	☐	500000.00	499677.87	144928674.5	563.5354	A	0.8

$$y = 0.0011 * x + 0.0291$$

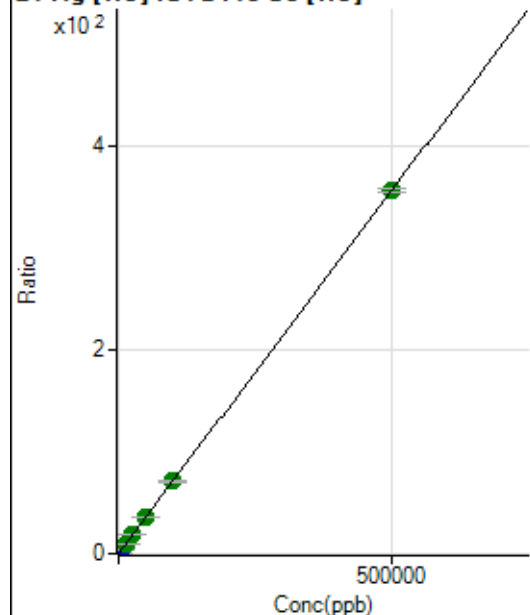
$$R = 1.0000$$

$$DL = 4.363$$

$$BEC = 25.81$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	285.56	0.0010	P	21.9
2	☐	500.000	517.142	112837.46	0.3691	P	1.2
3	☐	5000.000	5296.115	1148792.34	3.7704	P	0.8
4	☐	12500.000	12884.221	2717153.47	9.1710	A	0.4
5	☐	25000.000	26425.927	5477987.00	18.8090	A	0.4
6	☐	50000.000	50666.128	10182889.15	36.0613	A	1.3
7	☐	100000.00	99520.743	20070235.81	70.8322	A	1.0
8	☐	500000.00	499945.35	91509711.97	355.8237	A	0.9

$$y = 7.1172\text{E-}004 * x + 0.0010$$

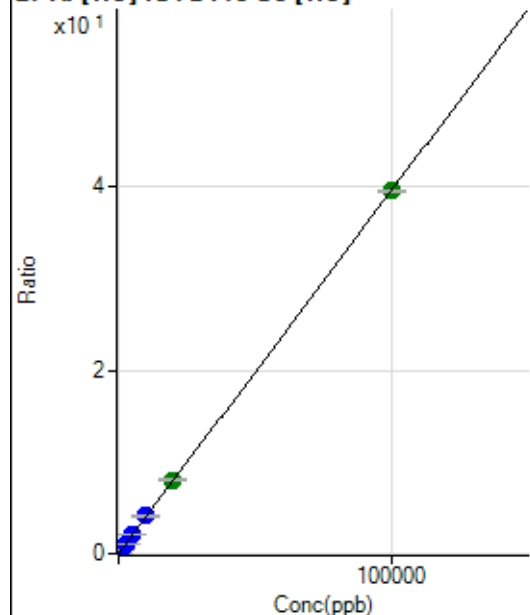
$$R = 1.0000$$

$$DL = 0.9284$$

$$BEC = 1.416$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	853.37	0.0030	P	6.8
2	☐	20.000	12.952	2483.56	0.0081	P	4.9
3	☐	1000.000	1042.497	126723.25	0.4159	P	0.8
4	☐	2500.000	2691.662	316728.64	1.0690	P	0.5
5	☐	5000.000	5032.208	581323.67	1.9960	P	0.3
6	☐	10000.000	10318.912	1154891.13	4.0898	P	0.6
7	☐	20000.000	20352.720	2284846.16	8.0638	A	0.9
8	☐	100000.00	99890.739	10175319.50	39.5651	A	0.8

$$y = 3.9605\text{E-}004 * x + 0.0030$$

$$R = 1.0000$$

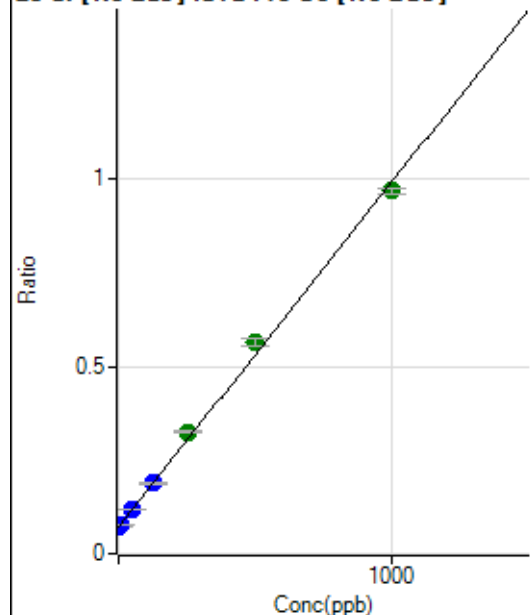
$$DL = 1.554$$

$$BEC = 7.563$$

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	280166.80	0.0715	P	2.6
2	☐	10.000	3.950	294707.57	0.0751	P	1.6
3	☐	50.000	49.952	460029.76	0.1175	P	1.2
4	☐	125.000	127.656	723229.70	0.1890	P	2.5
5	☐	250.000	275.586	1207886.46	0.3252	A	2.4
6	☐	500.000	536.099	2052630.26	0.5650	A	3.7
7	☐	1000.000	975.285	3466662.10	0.9694	A	1.5
8	☐			438720.77	0.1345	P	9.6

$$y = 9.2067\text{E-}004 * x + 0.0715$$

$$R = 0.9985$$

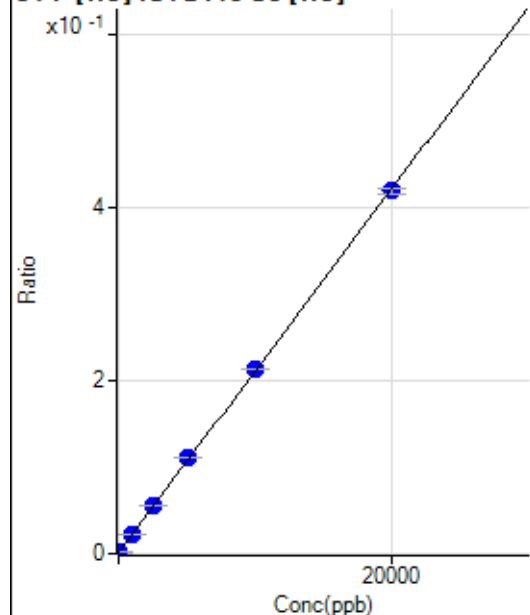
$$DL = 6.017$$

$$BEC = 77.64$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-9.672	272.23	0.0010	P	9.0
2	☐	0.000	9.672	416.68	0.0014	P	10.2
3	☐	1000.000	996.976	6740.42	0.0221	P	1.5
4	☐	2500.000	2581.633	16425.57	0.0554	P	1.9
5	☐	5000.000	5215.826	32277.37	0.1108	P	0.8
6	☐	10000.000	10070.481	60120.82	0.2129	P	0.5
7	☐	20000.000	19900.750	118891.39	0.4196	P	1.3
8	☐			303.34	0.0012	P	12.0

$$y = 2.1026\text{E-}005 * x + 0.0012$$

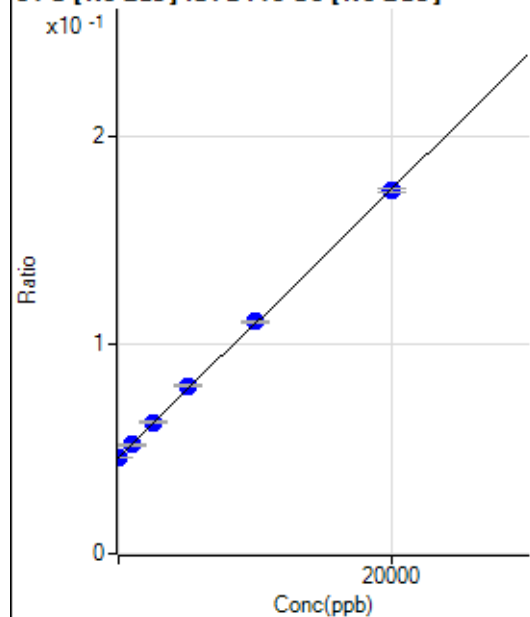
$$R = 0.9999$$

$$DL = 16.05$$

$$BEC = 55.15$$

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	-37.141	179034.21	0.0457	P	0.2
2	☐	0.000	37.141	181085.54	0.0462	P	1.2
3	☐	1000.000	955.602	203960.76	0.0521	P	0.4
4	☐	2500.000	2657.688	241338.06	0.0631	P	1.4
5	☐	5000.000	5354.053	298905.00	0.0805	P	0.9
6	☐	10000.000	10130.042	404334.02	0.1113	P	1.0
7	☐	20000.000	19828.975	621754.98	0.1739	P	0.9
8	☐			149198.77	0.0457	P	0.4

$$y = 6.4528\text{E-}006 * x + 0.0459$$

$$R = 0.9997$$

$$DL = 147.4$$

$$BEC = 7116$$

Weight: <None>

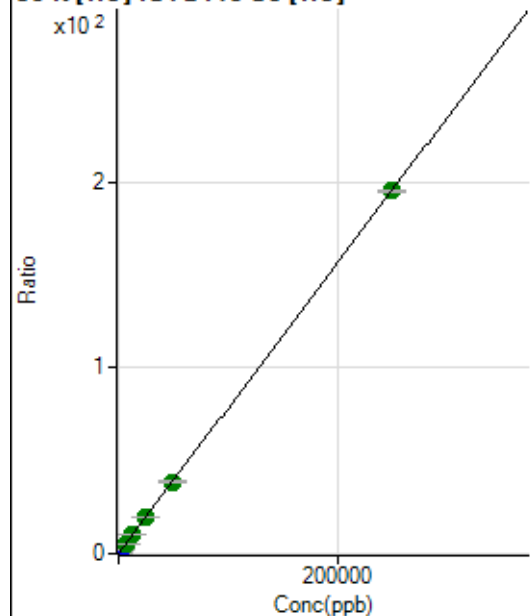
Min Conc: 0

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	34755.21	0.1219	P	5.0
2	☐	500.000	506.792	158178.40	0.5174	P	1.4
3	☐	2500.000	2665.644	670969.43	2.2021	P	0.4
4	☐	6250.000	6348.333	1503886.71	5.0759	A	0.3
5	☐	12500.000	13003.888	2990858.67	10.2697	A	1.0
6	☐	25000.000	24826.027	5505232.77	19.4953	A	0.6
7	☐	50000.000	49378.814	10952977.34	38.6555	A	1.2
8	☐	250000.00	250112.31	50227629.81	195.3012	A	0.6

$$y = 7.8037E-004 * x + 0.1219$$

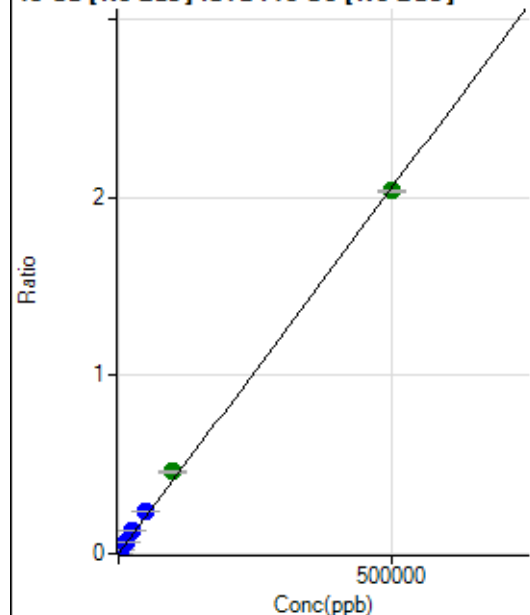
$$R = 1.0000$$

$$DL = 23.4$$

$$BEC = 156.2$$

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	412.23	0.0001	P	2.6
2	☐	500.000	503.343	8524.69	0.0022	P	2.0
3	☐	5000.000	5785.685	93486.53	0.0239	P	0.5
4	☐	12500.000	14756.965	232374.04	0.0607	P	1.7
5	☐	25000.000	30662.748	468262.10	0.1261	P	1.7
6	☐	50000.000	58279.710	870186.25	0.2395	P	1.3
7	☐	100000.00	112115.88	1647375.06	0.4607	A	0.8
8	☐	500000.00	496401.43	6655504.21	2.0392	A	0.8

$$y = 4.1078\text{E-}006 * x + 1.0516\text{E-}004$$

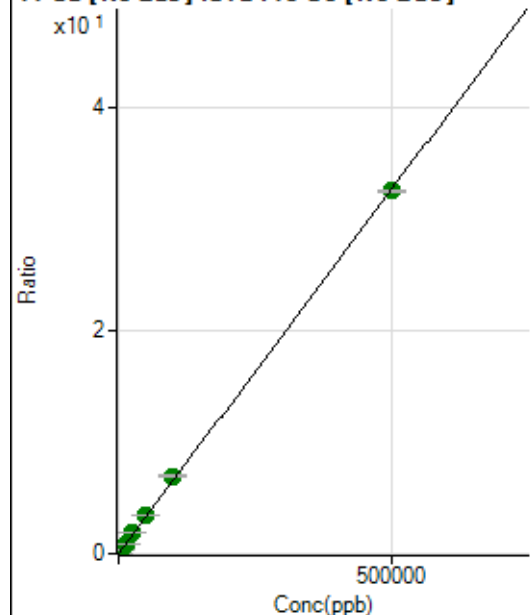
$$R = 0.9996$$

$$DL = 2.015$$

$$BEC = 25.6$$

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	4517.38	0.0012	P	1.6
2	☐	500.000	511.530	135468.24	0.0345	P	0.6
3	☐	5000.000	5299.190	1358519.44	0.3469	A	0.2
4	☐	12500.000	13521.924	3380611.06	0.8834	A	1.1
5	☐	25000.000	28206.924	6840248.44	1.8415	A	1.7
6	☐	50000.000	53475.624	12680369.12	3.4901	A	1.5
7	☐	100000.00	106758.52	24912871.57	6.9665	A	1.1
8	☐	500000.00	498111.83	106073260.6	32.5000	A	0.4

$$y = 6.5244\text{E-}005 * x + 0.0012$$

$$R = 0.9999$$

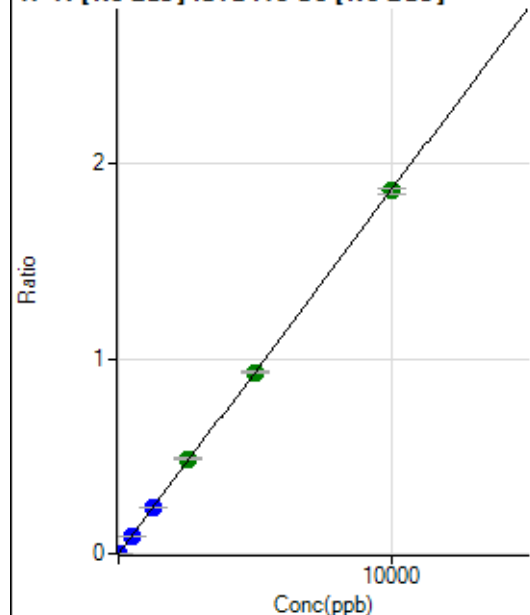
$$DL = 0.8297$$

$$BEC = 17.66$$

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	68.89	0.0000	P	22.5
2	☐	5.000	4.871	3636.03	0.0009	P	2.4
3	☐	500.000	500.593	366022.24	0.0935	P	0.4
4	☐	1250.000	1269.892	907228.10	0.2371	P	1.2
5	☐	2500.000	2615.982	1813943.01	0.4883	A	2.2
6	☐	5000.000	4992.347	3385830.85	0.9319	A	1.7
7	☐	10000.000	9972.315	6657122.75	1.8615	A	1.4
8	☐			783.36	0.0002	P	4.4

$$y = 1.8667E-004 * x + 1.7579E-005$$

$$R = 0.9999$$

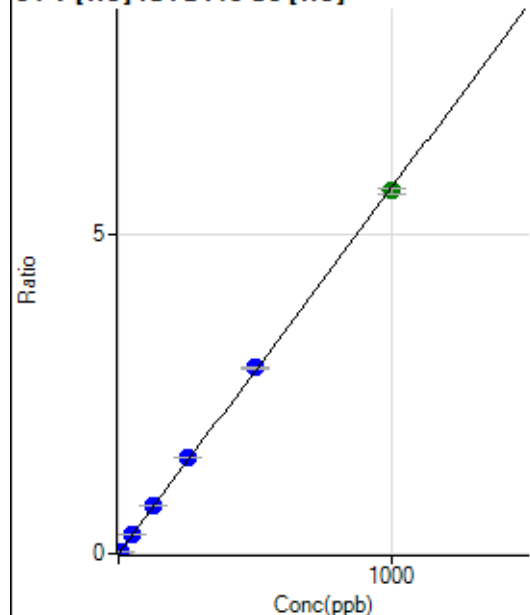
$$DL = 0.06354$$

$$BEC = 0.09417$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.938	8662.55	0.0283	P	0.4
3	☐	50.000	50.812	88813.61	0.2915	P	0.6
4	☐	125.000	129.008	219257.98	0.7400	P	0.3
5	☐	250.000	264.451	441807.16	1.5170	P	0.7
6	☐	500.000	508.169	823150.29	2.9151	P	0.9
7	☐	1000.000	991.762	1611965.53	5.6892	A	1.7
8	☐			488.92	0.0019	P	24.5

$$y = 0.0057 * x + 4.0489E-006$$

$$R = 0.9998$$

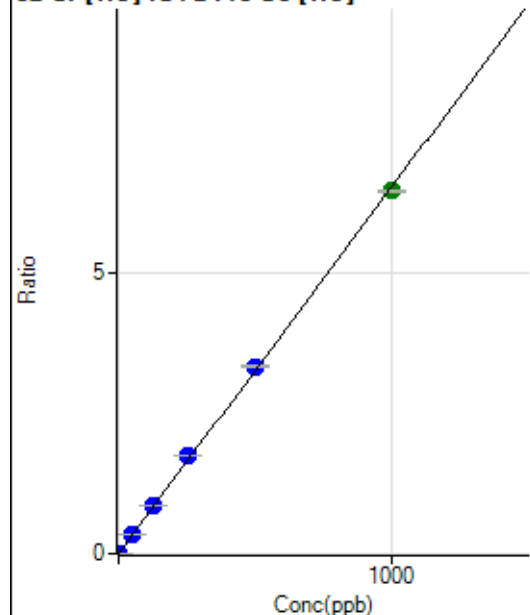
$$DL = 0.003668$$

$$BEC = 0.0007058$$

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	705.58	0.0025	P	10.4
2	☐	2.000	1.968	4681.89	0.0153	P	1.2
3	☐	50.000	51.528	103116.94	0.3384	P	0.7
4	☐	125.000	130.288	252401.43	0.8519	P	1.1
5	☐	250.000	266.267	506307.45	1.7385	P	0.6
6	☐	500.000	509.868	939384.32	3.3267	P	0.8
7	☐	1000.000	990.262	1830099.70	6.4587	A	0.4
8	☐			10746.16	0.0418	P	1.4

$$y = 0.0065 * x + 0.0025$$

$$R = 0.9998$$

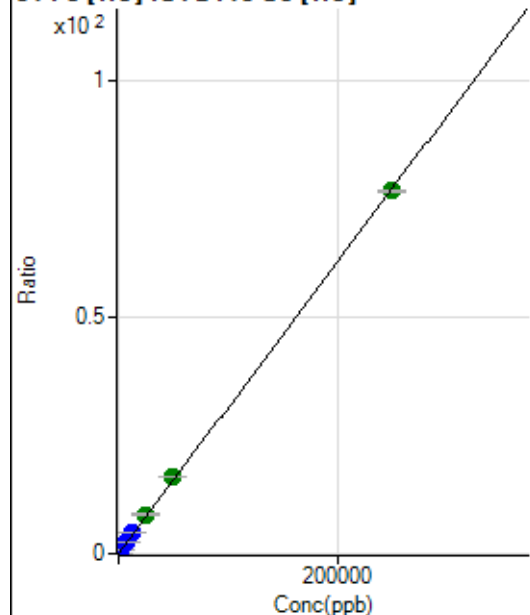
$$DL = 0.1187$$

$$BEC = 0.3803$$

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	863.37	0.0030	P	7.3
2	☐	50.000	56.715	6264.68	0.0205	P	2.3
3	☐	2500.000	2874.846	270579.24	0.8881	P	0.9
4	☐	6250.000	7311.668	667787.31	2.2539	P	0.5
5	☐	12500.000	14835.417	1330998.68	4.5701	P	0.8
6	☐	25000.000	27036.800	2350900.35	8.3264	A	2.3
7	☐	50000.000	53028.601	4626613.06	16.3280	A	0.2
8	☐	250000.00	249043.53	19718446.23	76.6717	A	0.5

$$y = 3.0785E-004 * x + 0.0030$$

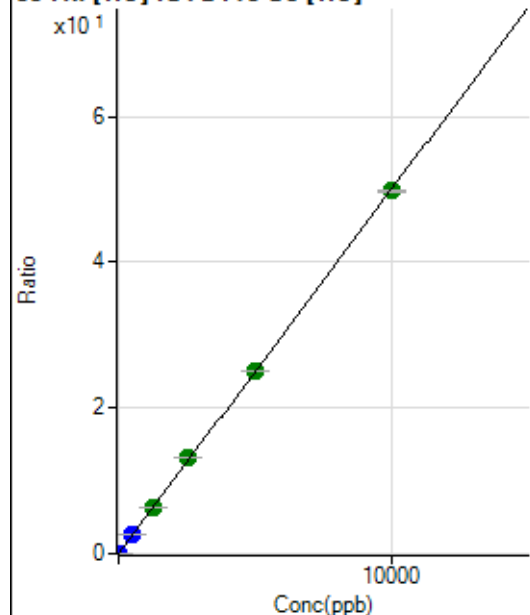
$$R = 0.9999$$

$$DL = 2.152$$

$$BEC = 9.837$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	111.11	0.0004	P	28.9
2	☐	1.000	1.012	1665.67	0.0054	P	5.1
3	☐	500.000	518.452	789791.52	2.5921	P	0.4
4	☐	1250.000	1283.179	1900530.06	6.4148	A	1.2
5	☐	2500.000	2629.011	3827472.41	13.1425	A	1.2
6	☐	5000.000	5007.485	7068567.60	25.0321	A	0.7
7	☐	10000.000	9958.935	14106413.54	49.7838	A	0.7
8	☐			10429.77	0.0405	P	6.6

$$y = 0.0050 * x + 3.9236E-004$$

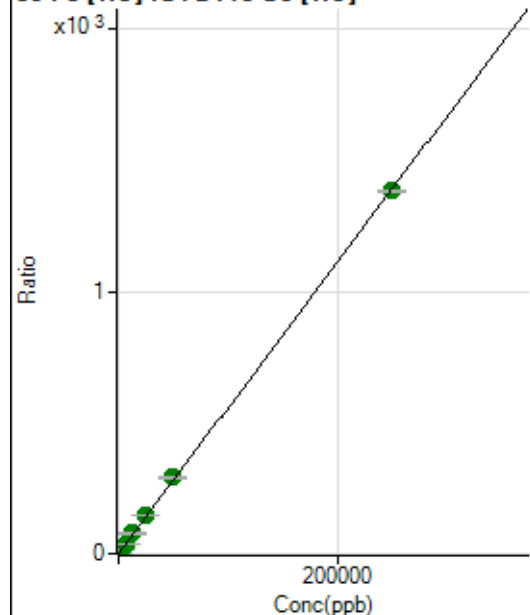
$$R = 0.9999$$

$$DL = 0.06807$$

$$BEC = 0.07849$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6344.73	0.0223	P	7.4
2	☐	50.000	54.955	100000.40	0.3271	P	1.2
3	☐	2500.000	2681.348	4538526.60	14.8952	A	0.5
4	☐	6250.000	6799.025	11179922.05	37.7352	A	1.0
5	☐	12500.000	13934.915	22517385.50	77.3167	A	0.9
6	☐	25000.000	26616.520	41697192.99	147.6593	A	0.6
7	☐	50000.000	52250.707	82128889.33	289.8474	A	0.5
8	☐	250000.00	249300.92	355640972.4	1,382.849	A	0.6

$$y = 0.0055 * x + 0.0223$$

$$R = 0.9999$$

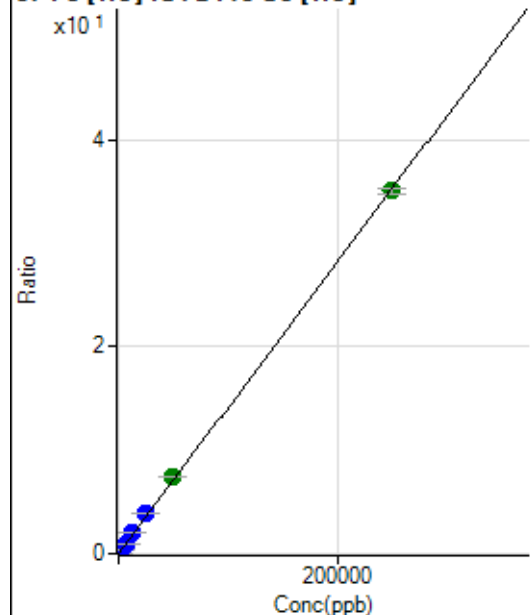
$$DL = 0.8869$$

$$BEC = 4.013$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	525.57	0.0018	P	4.3
2	☐	50.000	56.143	2980.32	0.0097	P	3.0
3	☐	2500.000	2827.311	121866.72	0.4000	P	0.9
4	☐	6250.000	7197.636	300833.75	1.0154	P	0.6
5	☐	12500.000	14635.361	600742.50	2.0627	P	0.8
6	☐	25000.000	28052.908	1115976.59	3.9522	P	1.0
7	☐	50000.000	52709.662	2103657.03	7.4242	A	0.8
8	☐	250000.00	249019.04	9018630.56	35.0679	A	1.3

$$y = 1.4082E-004 * x + 0.0018$$

$$R = 0.9999$$

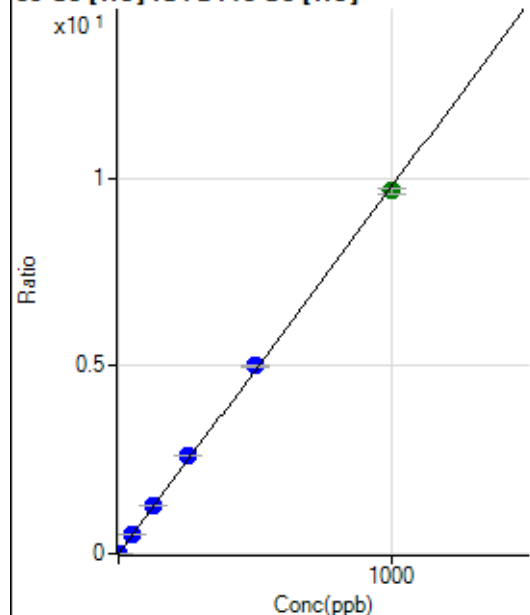
$$DL = 1.691$$

$$BEC = 13.08$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.11	0.0001	P	21.1
2	☐	1.000	1.069	3240.38	0.0106	P	4.1
3	☐	50.000	52.452	156376.13	0.5132	P	0.8
4	☐	125.000	132.310	383493.43	1.2944	P	0.3
5	☐	250.000	268.585	765201.07	2.6274	P	0.7
6	☐	500.000	511.315	1412333.12	5.0018	P	1.2
7	☐	1000.000	988.660	2740187.22	9.6711	A	1.9
8	☐			7526.40	0.0293	P	2.2

$$y = 0.0098 * x + 1.4454E-004$$

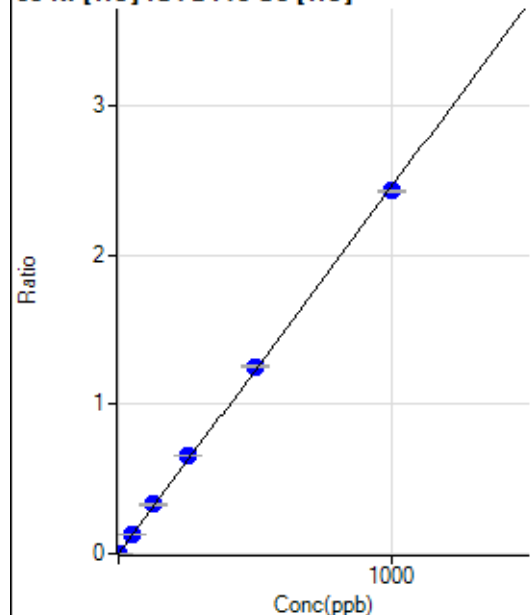
$$R = 0.9997$$

$$DL = 0.009352$$

$$BEC = 0.01478$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	120.00	0.0004	P	10.9
2	☐	1.000	1.043	913.37	0.0030	P	6.4
3	☐	50.000	52.433	39437.34	0.1294	P	0.7
4	☐	125.000	133.825	97674.21	0.3297	P	1.1
5	☐	250.000	268.103	192233.02	0.6600	P	0.3
6	☐	500.000	510.669	354895.00	1.2568	P	1.1
7	☐	1000.000	988.915	689536.00	2.4335	P	0.4
8	☐			3257.05	0.0127	P	4.0

$$y = 0.0025 * x + 4.2151E-004$$

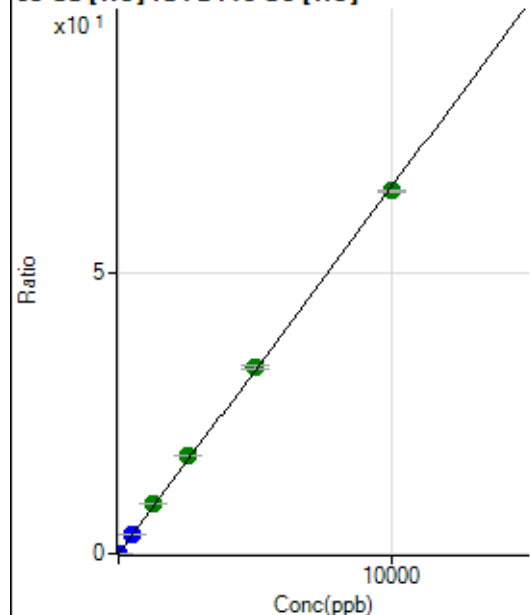
$$R = 0.9997$$

$$DL = 0.05603$$

$$BEC = 0.1713$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3516.00	0.0123	P	7.0
2	☐	2.000	1.910	7586.42	0.0248	P	4.7
3	☐	500.000	535.053	1069530.22	3.5102	P	0.5
4	☐	1250.000	1340.633	2600276.40	8.7766	A	0.6
5	☐	2500.000	2671.275	5089544.51	17.4755	A	0.5
6	☐	5000.000	5105.965	9428259.86	33.3920	A	2.0
7	☐	10000.000	9891.117	18325343.34	64.6743	A	0.8
8	☐			6412.68	0.0249	P	6.0

$$y = 0.0065 * x + 0.0123$$

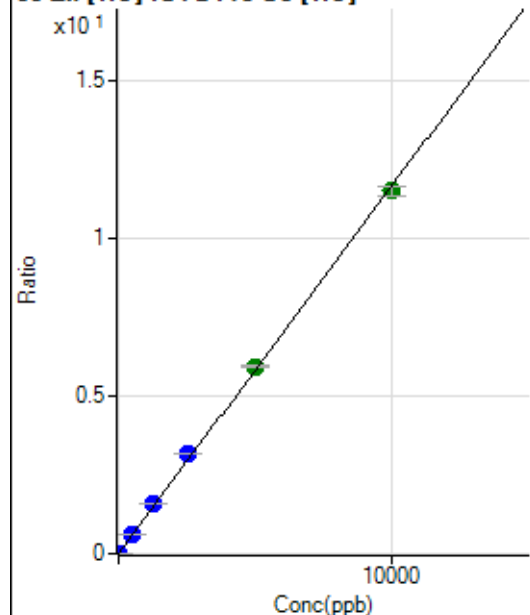
$$R = 0.9997$$

$$DL = 0.3938$$

$$BEC = 1.887$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600.02	0.0021	P	2.9
2	☐	5.000	4.895	2382.44	0.0078	P	7.5
3	☐	500.000	530.761	188726.21	0.6194	P	1.3
4	☐	1250.000	1344.892	464065.51	1.5663	P	0.2
5	☐	2500.000	2735.436	927211.25	3.1836	P	0.3
6	☐	5000.000	5102.398	1676423.60	5.9366	A	0.7
7	☐	10000.000	9876.543	3255323.63	11.4893	A	2.3
8	☐			5305.43	0.0206	P	1.8

$$y = 0.0012 * x + 0.0021$$

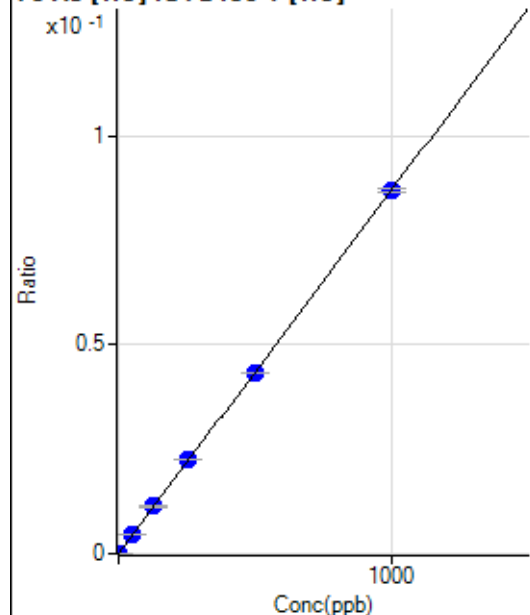
$$R = 0.9996$$

$$DL = 0.155$$

$$BEC = 1.808$$

Weight: <None>

Min Conc: 0

75 As [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	☐	1.000	0.908	220.01	0.0001	P	6.0
3	☐	50.000	51.665	12224.04	0.0045	P	0.9
4	☐	125.000	129.794	30296.50	0.0113	P	2.7
5	☐	250.000	260.708	60743.47	0.0227	P	0.7
6	☐	500.000	497.263	113322.72	0.0433	P	0.7
7	☐	1000.000	998.009	224520.44	0.0868	P	1.1
8	☐			103.33	0.0000	P	24.9

$$y = 8.7002E-005 * x + 4.4264E-007$$

$$R = 0.9999$$

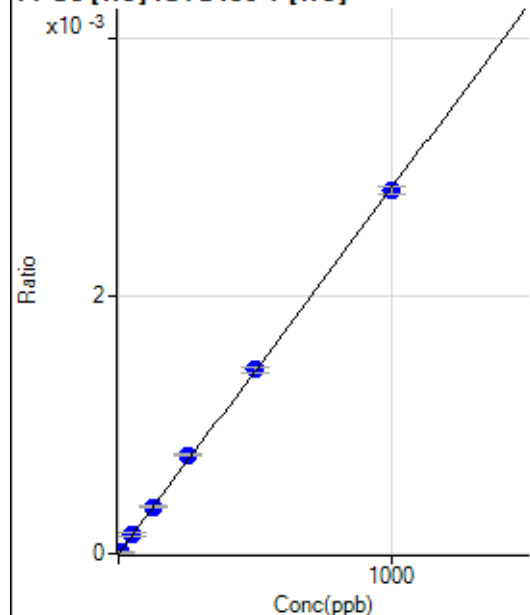
$$DL = 0.02644$$

$$BEC = 0.005088$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	3.402	26.67	0.0000	P	45.9
3	☐	50.000	52.087	402.23	0.0001	P	20.3
4	☐	125.000	128.549	978.93	0.0004	P	3.7
5	☐	250.000	269.621	2049.05	0.0008	P	2.6
6	☐	500.000	504.694	3751.62	0.0014	P	3.2
7	☐	1000.000	992.208	7281.86	0.0028	P	2.1
8	☐			37.78	0.0000	P	22.7

$$y = 2.8381\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

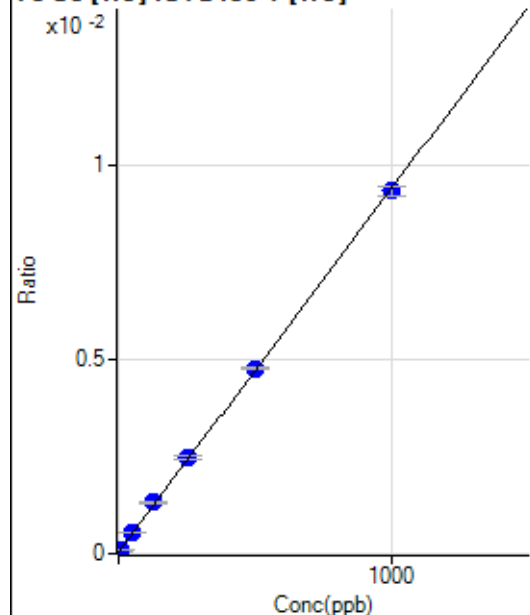
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	110.00	0.0000	P	20.7
2	☐	5.000	4.970	248.89	0.0001	P	10.4
3	☐	50.000	52.365	1453.42	0.0005	P	3.9
4	☐	125.000	135.728	3531.57	0.0013	P	2.9
5	☐	250.000	259.448	6632.66	0.0025	P	2.9
6	☐	500.000	505.696	12535.43	0.0048	P	2.0
7	☐	1000.000	993.331	24203.16	0.0094	P	2.8
8	☐			241.12	0.0001	P	12.1

$$y = 9.3783\text{E-}006 * x + 4.3321\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.867$$

$$BEC = 4.619$$

Weight: <None>

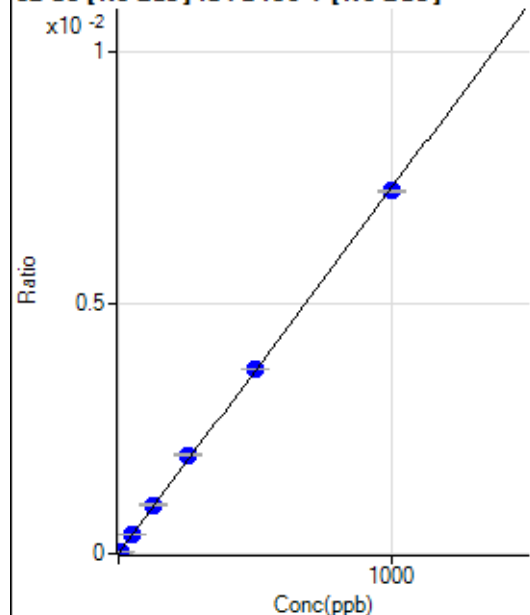
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8273.50		P	1.3
2	☐			8175.69		P	2.0
3	☐			7921.09		P	1.1
4	☐			7945.54		P	1.8
5	☐			7735.43		P	3.7
6	☐			7824.35		P	0.8
7	☐			7789.91		P	0.7
8	☐			8807.14		P	1.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			67.78		P	28.0
2	☐			58.89		P	11.8
3	☐			47.78		P	16.1
4	☐			47.78		P	33.0
5	☐			46.67		P	14.3
6	☐			64.44		P	14.9
7	☐			85.56		P	2.3
8	☐			372.23		P	7.0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.59	0.0000	P	30.5
2	☐	5.000	5.013	502.98	0.0000	P	2.6
3	☐	50.000	51.779	4657.49	0.0004	P	0.8
4	☐	125.000	132.908	11625.67	0.0010	P	2.6
5	☐	250.000	268.382	23039.98	0.0020	P	1.9
6	☐	500.000	504.886	42942.35	0.0037	P	0.6
7	☐	1000.000	991.884	83117.99	0.0072	P	0.7
8	☐			524.87	0.0001	P	8.4

$$y = 7.2902\text{E-}006 * x + 5.1301\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.6432$$

$$BEC = 0.7037$$

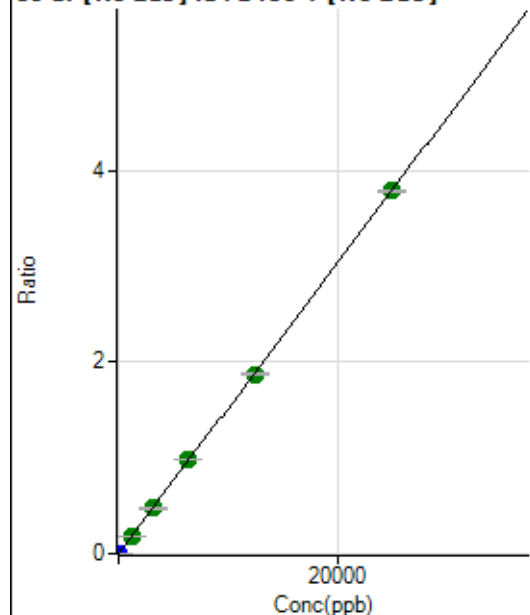
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			107.78		P	17.9
2	☐			115.55		P	9.3
3	☐			95.56		P	10.7
4	☐			85.55		P	12.5
5	☐			97.78		P	7.1
6	☐			106.67		P	9.4
7	☐			102.22		P	1.9
8	☐			97.78		P	12.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0000	P	12.1
2	☐	1.000	0.957	1924.59	0.0002	P	3.6
3	☐	1250.000	1245.558	2294879.95	0.1885	A	1.2
4	☐	3125.000	3128.803	5652392.07	0.4736	A	1.6
5	☐	6250.000	6488.507	11534551.50	0.9821	A	1.6
6	☐	12500.000	12379.269	21828943.84	1.8737	A	1.0
7	☐	25000.000	25000.486	43463778.80	3.7839	A	0.7
8	☐			4397.37	0.0004	P	5.5

$$y = 1.5135E-004 * x + 1.4568E-005$$

$$R = 0.9999$$

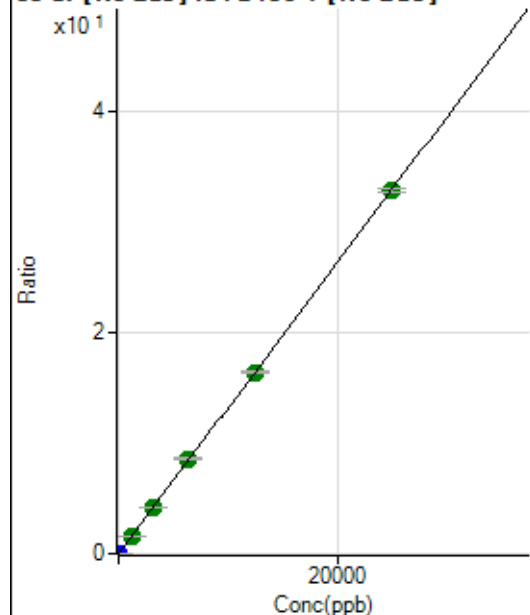
$$DL = 0.03495$$

$$BEC = 0.09625$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.34	0.0000	P	21.7
2	☐	1.000	1.003	16055.52	0.0013	P	1.2
3	☐	1250.000	1247.144	19984845.68	1.6418	A	0.4
4	☐	3125.000	3161.662	49679849.26	4.1621	A	0.9
5	☐	6250.000	6518.408	100782899.6	8.5810	A	1.9
6	☐	12500.000	12459.058	191085203.8	16.4014	A	1.2
7	☐	25000.000	24948.929	377257429.9	32.8434	A	0.9
8	☐			37279.51	0.0038	P	4.8

$$y = 0.0013 * x + 9.2968E-006$$

$$R = 0.9999$$

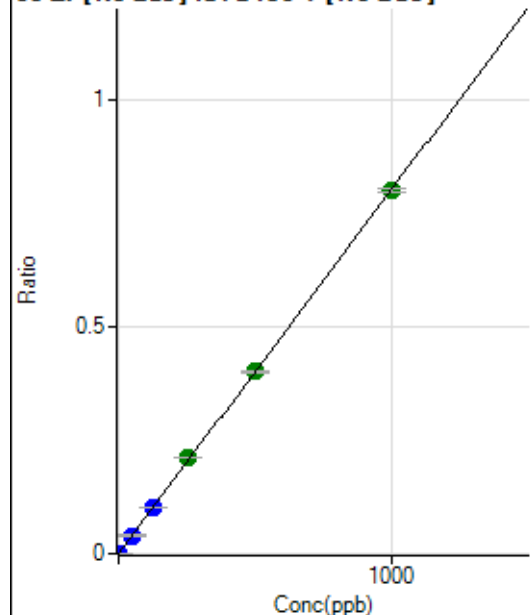
$$DL = 0.004602$$

$$BEC = 0.007062$$

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	348.90	0.0000	P	9.8
2	☐	1.000	0.963	9651.02	0.0008	P	3.3
3	☐	50.000	50.074	488553.80	0.0401	P	1.1
4	☐	125.000	126.892	1213505.68	0.1017	P	1.1
5	☐	250.000	264.200	2485872.95	0.2116	A	1.3
6	☐	500.000	499.715	4663611.29	0.4003	A	0.9
7	☐	1000.000	996.353	9167316.11	0.7981	A	1.1
8	☐			3531.57	0.0004	P	2.4

$$y = 8.0098\text{E-}004 * x + 2.8608\text{E-}005$$

$$R = 0.9999$$

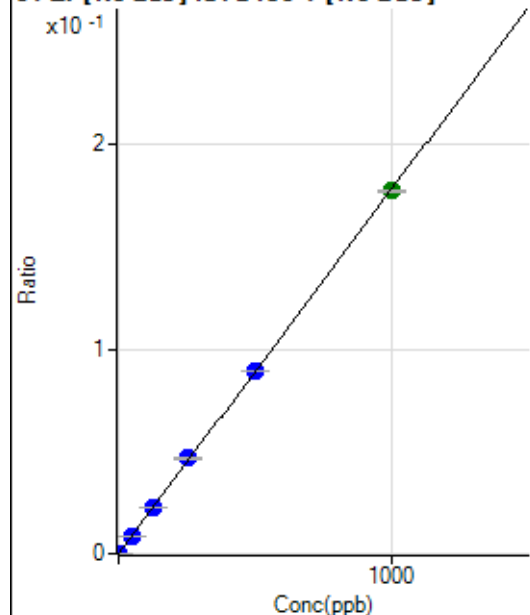
$$DL = 0.01053$$

$$BEC = 0.03572$$

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	90.00	0.0000	P	30.1
2	☐	1.000	0.974	2180.18	0.0002	P	3.3
3	☐	50.000	50.035	108480.40	0.0089	P	0.2
4	☐	125.000	127.754	271451.00	0.0227	P	1.7
5	☐	250.000	262.004	547712.32	0.0466	P	2.0
6	☐	500.000	501.587	1040078.54	0.0893	P	0.2
7	☐	1000.000	995.859	2035838.08	0.1772	A	0.8
8	☐			735.58	0.0001	P	7.5

$$y = 1.7796\text{E-}004 * x + 7.3866\text{E-}006$$

$$R = 0.9999$$

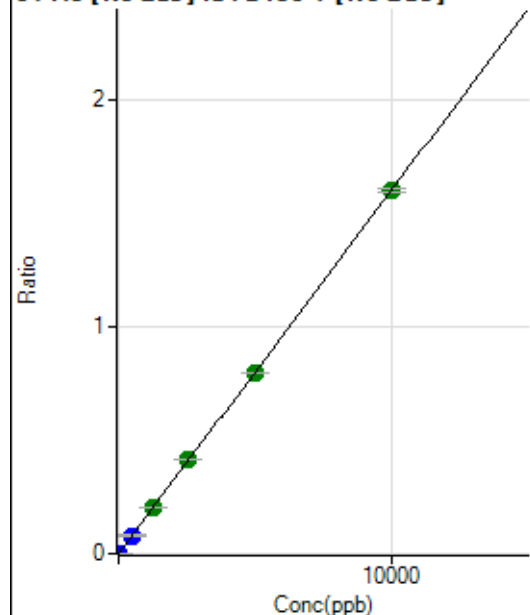
$$DL = 0.0375$$

$$BEC = 0.04151$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0000	P	22.1
2	☐	5.000	5.823	11386.74	0.0009	P	1.6
3	☐	500.000	502.076	978632.20	0.0804	P	0.7
4	☐	1250.000	1260.197	2408301.48	0.2018	A	2.1
5	☐	2500.000	2594.876	4879755.03	0.4155	A	1.8
6	☐	5000.000	4982.853	9294929.03	0.7978	A	0.5
7	☐	10000.000	9983.476	18360946.53	1.5984	A	1.1
8	☐			3741.62	0.0004	P	4.6

$$y = 1.6011\text{E-}004 * x + 1.1208\text{E-}005$$

$$R = 0.9999$$

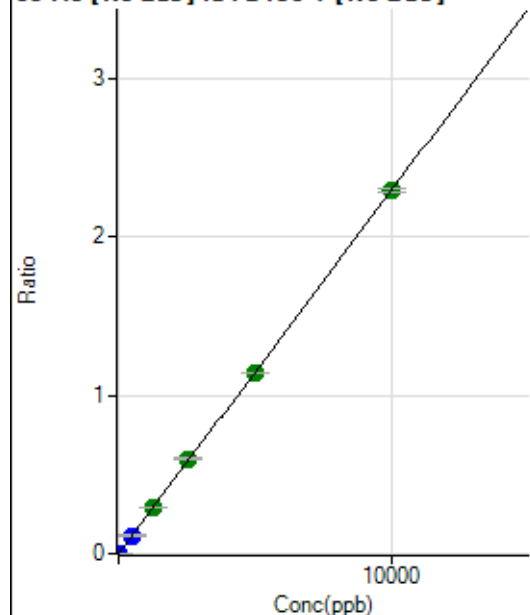
$$DL = 0.04635$$

$$BEC = 0.07001$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	5.4
2	☐	5.000	4.931	13687.60	0.0011	P	2.0
3	☐	500.000	502.014	1401598.97	0.1151	P	0.5
4	☐	1250.000	1265.929	3465840.26	0.2904	A	0.5
5	☐	2500.000	2606.612	7021874.68	0.5979	A	1.6
6	☐	5000.000	4976.783	13299091.61	1.1415	A	0.1
7	☐	10000.000	9982.864	26300168.50	2.2897	A	1.0
8	☐			3951.68	0.0004	P	7.3

$$y = 2.2936\text{E-}004 * x + 3.1881\text{E-}006$$

$$R = 0.9999$$

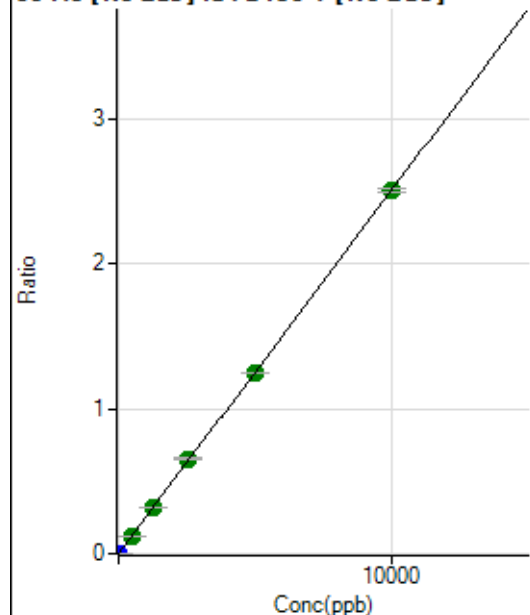
$$DL = 0.002235$$

$$BEC = 0.0139$$

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	61.11	0.0000	P	46.1
2	☐	5.000	5.005	15196.86	0.0013	P	0.6
3	☐	500.000	498.250	1519825.25	0.1249	A	1.2
4	☐	1250.000	1264.848	3783179.35	0.3170	A	1.5
5	☐	2500.000	2608.169	7676018.01	0.6536	A	2.4
6	☐	5000.000	4969.071	14507447.42	1.2452	A	0.3
7	☐	10000.000	9986.653	28745699.01	2.5025	A	1.0
8	☐			8729.35	0.0009	P	2.2

$$y = 2.5059\text{E-}004 * x + 5.0073\text{E-}006$$

$$R = 0.9999$$

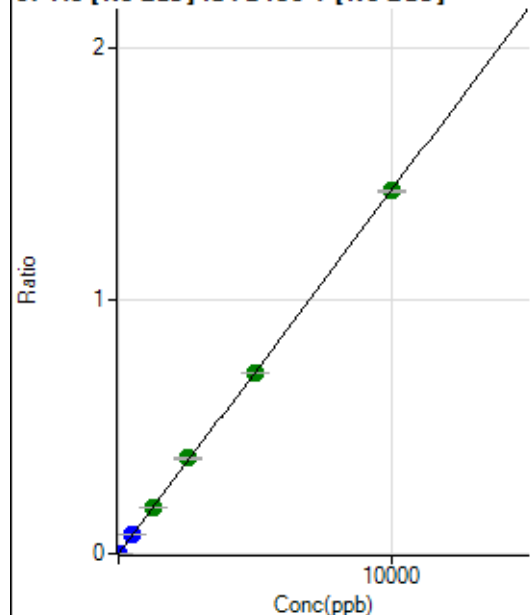
$$DL = 0.02765$$

$$BEC = 0.01998$$

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	18.89	0.0000	P	27.4
2	☐	5.000	4.859	8439.18	0.0007	P	3.7
3	☐	500.000	505.081	882911.00	0.0725	P	0.9
4	☐	1250.000	1266.354	2170639.50	0.1819	A	1.3
5	☐	2500.000	2619.931	4418843.37	0.3762	A	2.2
6	☐	5000.000	4970.902	8316901.20	0.7139	A	0.5
7	☐	10000.000	9982.268	16465957.11	1.4335	A	0.8
8	☐			2468.01	0.0003	P	2.9

$$y = 1.4361\text{E-}004 * x + 1.5493\text{E-}006$$

$$R = 0.9999$$

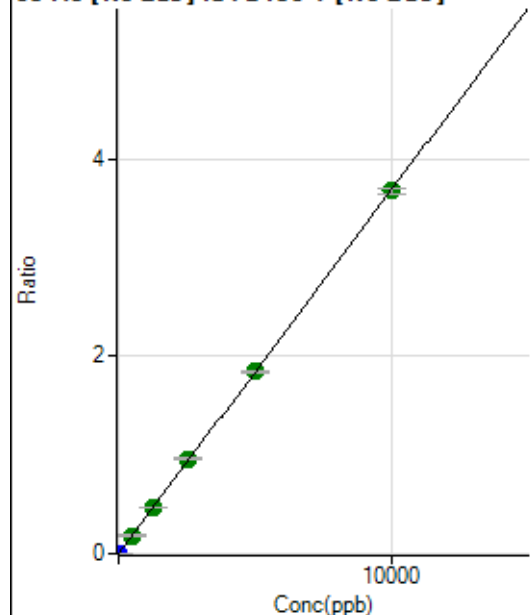
$$DL = 0.008873$$

$$BEC = 0.01079$$

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	51.11	0.0000	P	25.8
2	☐	5.000	4.915	21902.08	0.0018	P	2.8
3	☐	500.000	499.173	2238331.34	0.1839	A	1.9
4	☐	1250.000	1262.905	5553157.97	0.4652	A	1.6
5	☐	2500.000	2610.336	11293948.58	0.9616	A	2.3
6	☐	5000.000	4996.934	21446895.79	1.8408	A	0.4
7	☐	10000.000	9972.377	42198167.71	3.6737	A	1.7
8	☐			6244.72	0.0006	P	1.5

$$y = 3.6839E-004 * x + 4.1846E-006$$

$$R = 0.9999$$

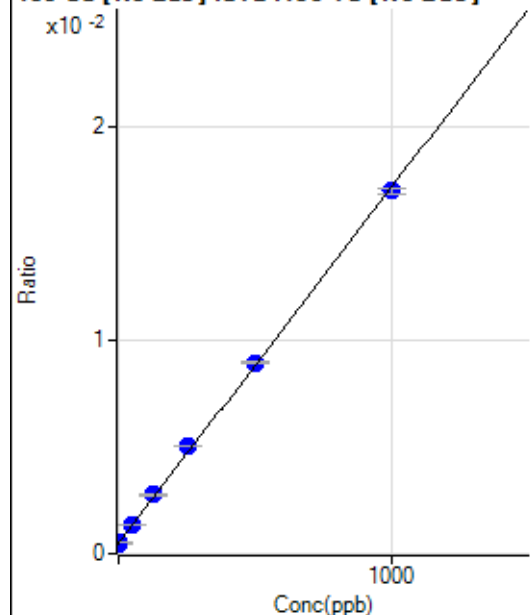
$$DL = 0.008792$$

$$BEC = 0.01136$$

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	4474.06	0.0005	P	2.6
2	☐	1.000	1.616	4684.13	0.0005	P	2.7
3	☐	50.000	51.319	12240.80	0.0013	P	0.9
4	☐	125.000	135.472	24736.66	0.0028	P	0.4
5	☐	250.000	273.508	44981.58	0.0051	P	1.3
6	☐	500.000	506.100	80286.83	0.0089	P	0.7
7	☐	1000.000	989.697	150294.89	0.0170	P	1.3
8	☐			4018.38	0.0006	P	2.0

$$y = 1.6676E-005 * x + 4.9298E-004$$

$$R = 0.9996$$

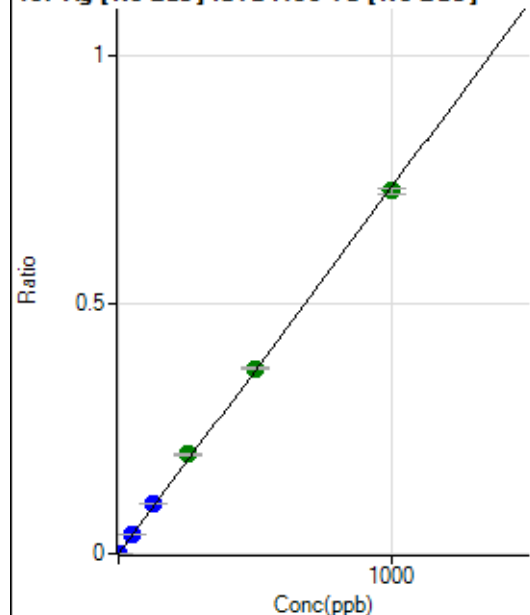
$$DL = 2.262$$

$$BEC = 29.56$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.44	0.0000	P	21.9
2	☐	1.000	1.013	6790.54	0.0008	P	2.3
3	☐	50.000	54.379	362869.50	0.0400	P	0.9
4	☐	125.000	136.857	904285.98	0.1006	P	0.6
5	☐	250.000	271.828	1778408.17	0.1998	A	2.0
6	☐	500.000	505.921	3342245.85	0.3719	A	1.4
7	☐	1000.000	989.882	6433966.92	0.7276	A	1.7
8	☐			761.14	0.0001	P	13.8

$$y = 7.3507E-004 * x + 9.3084E-006$$

$$R = 0.9997$$

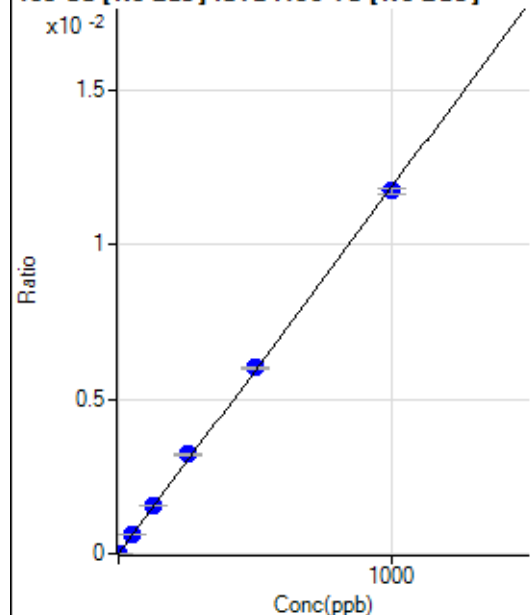
$$DL = 0.008338$$

$$BEC = 0.01266$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	32.9
2	☐	1.000	1.386	157.78	0.0000	P	14.3
3	☐	50.000	53.661	5777.87	0.0006	P	2.5
4	☐	125.000	131.979	14061.33	0.0016	P	1.7
5	☐	250.000	270.704	28548.14	0.0032	P	0.9
6	☐	500.000	507.594	54042.41	0.0060	P	1.4
7	☐	1000.000	989.971	103698.13	0.0117	P	1.8
8	☐			92.22	0.0000	P	23.0

$$y = 1.1845E-005 * x + 1.1006E-006$$

$$R = 0.9997$$

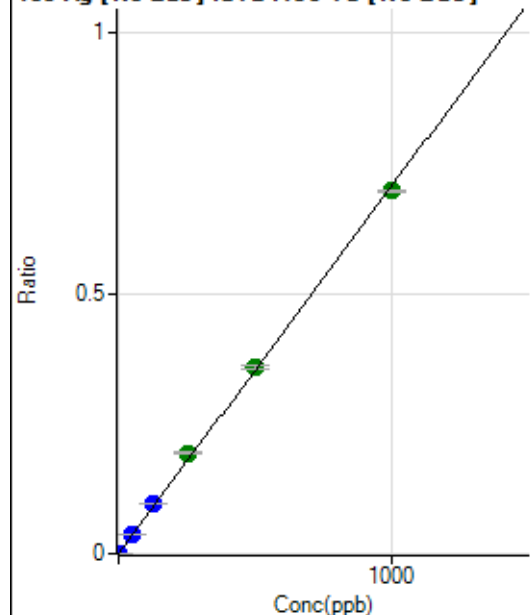
$$DL = 0.09178$$

$$BEC = 0.09292$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23.33	0.0000	P	15.0
2	☐	1.000	1.045	6664.93	0.0007	P	1.0
3	☐	50.000	54.155	346695.52	0.0382	P	1.1
4	☐	125.000	135.767	860763.41	0.0958	P	1.1
5	☐	250.000	274.202	1721445.03	0.1934	A	1.3
6	☐	500.000	509.653	3230587.32	0.3595	A	1.9
7	☐	1000.000	987.569	6159593.31	0.6966	A	0.5
8	☐			640.02	0.0001	P	3.6

$$y = 7.0535E-004 * x + 2.5730E-006$$

$$R = 0.9996$$

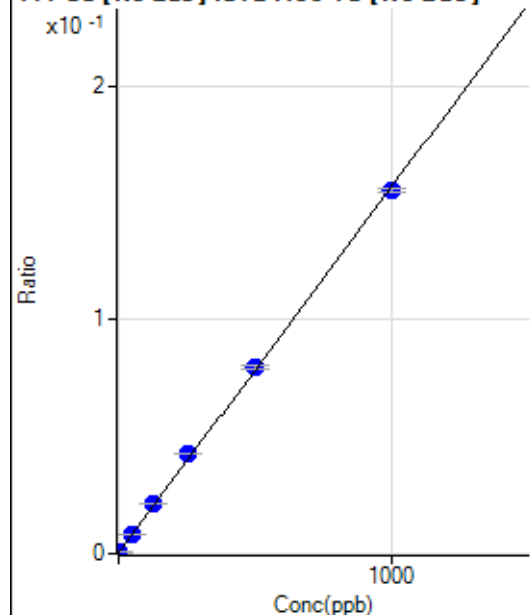
$$DL = 0.001643$$

$$BEC = 0.003648$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3131.51	0.0003	P	2.6
2	☐	1.000	1.103	4662.99	0.0005	P	3.4
3	☐	50.000	52.860	78207.88	0.0086	P	0.2
4	☐	125.000	134.291	191983.39	0.0214	P	1.4
5	☐	250.000	272.443	382527.88	0.0430	P	0.7
6	☐	500.000	508.039	717564.46	0.0798	P	1.7
7	☐	1000.000	989.065	1371632.51	0.1551	P	1.0
8	☐			3522.79	0.0005	P	2.2

$$y = 1.5649E-004 * x + 3.4505E-004$$

$$R = 0.9997$$

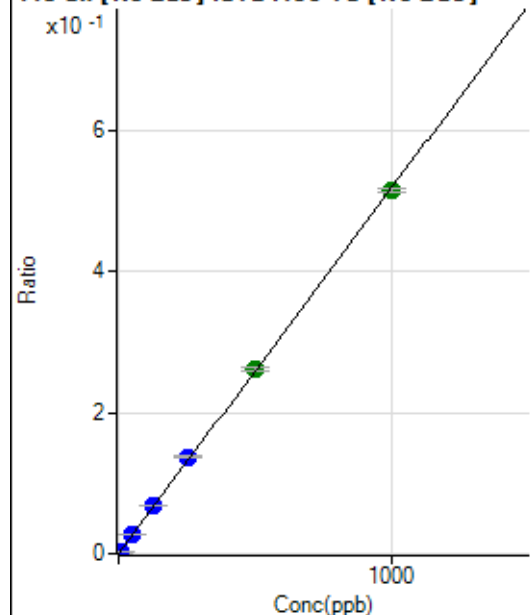
$$DL = 0.172$$

$$BEC = 2.205$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	585.57	0.0001	P	12.5
2	☐	5.000	5.039	24140.31	0.0027	P	0.6
3	☐	50.000	51.545	243357.29	0.0268	P	0.7
4	☐	125.000	130.460	609098.86	0.0678	P	0.8
5	☐	250.000	265.384	1226322.64	0.1378	P	1.5
6	☐	500.000	505.964	2360176.13	0.2626	A	2.0
7	☐	1000.000	992.412	4554494.34	0.5151	A	0.9
8	☐			3220.40	0.0004	P	2.5

$$y = 5.1895\text{E-}004 * x + 6.4575\text{E-}005$$

$$R = 0.9998$$

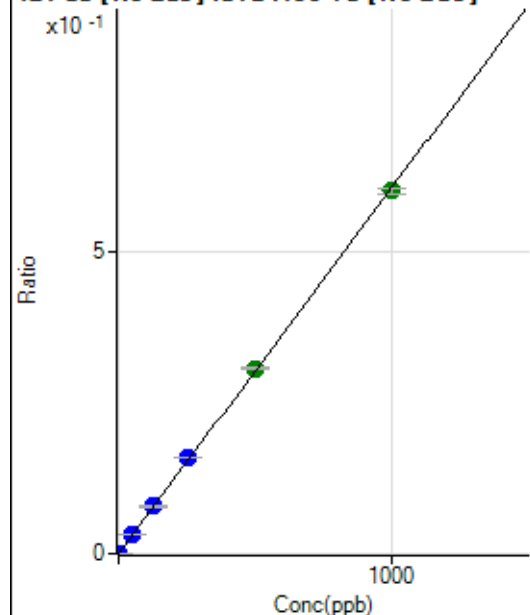
$$DL = 0.04669$$

$$BEC = 0.1244$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	25.4
2	☐	2.000	2.014	10982.05	0.0012	P	0.1
3	☐	50.000	50.875	278826.39	0.0307	P	0.9
4	☐	125.000	129.133	700842.40	0.0780	P	1.2
5	☐	250.000	263.469	1415909.27	0.1591	P	1.3
6	☐	500.000	507.026	2751435.65	0.3061	A	1.2
7	☐	1000.000	992.559	5299404.75	0.5993	A	1.4
8	☐			4040.61	0.0006	P	2.2

$$y = 6.0381\text{E-}004 * x + 3.0629\text{E-}006$$

$$R = 0.9999$$

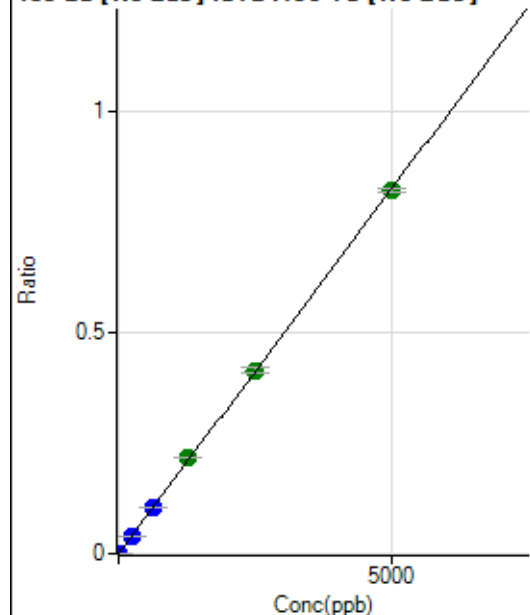
$$DL = 0.003863$$

$$BEC = 0.005073$$

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	21.11	0.0000	P	51.8
2	☐	10.000	9.666	14352.87	0.0016	P	0.7
3	☐	250.000	248.149	370681.81	0.0408	P	1.2
4	☐	625.000	628.933	930435.17	0.1035	P	0.8
5	☐	1250.000	1316.889	1929066.57	0.2167	A	1.6
6	☐	2500.000	2517.400	3723385.40	0.4143	A	2.4
7	☐	5000.000	4974.179	7239176.21	0.8187	A	1.1
8	☐			3319.31	0.0005	P	5.2

$$y = 1.6459\text{E-}004 * x + 2.3337\text{E-}006$$

$$R = 0.9999$$

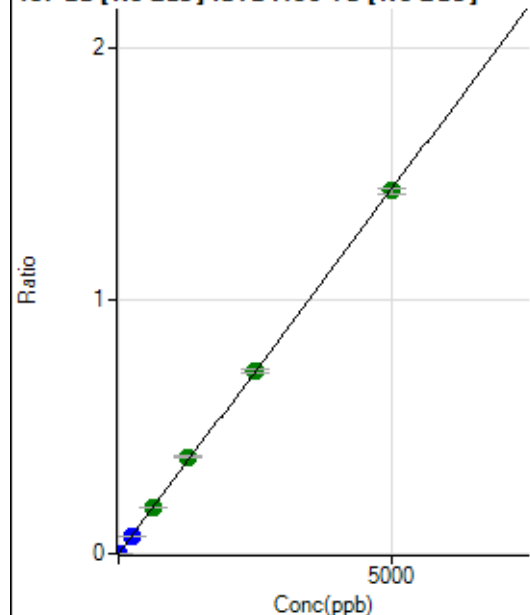
$$DL = 0.02205$$

$$BEC = 0.01418$$

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	22.22	0.0000	P	76.5
2	☐	10.000	9.748	25295.90	0.0028	P	0.1
3	☐	250.000	248.301	648599.94	0.0715	P	0.5
4	☐	625.000	642.527	1662155.32	0.1849	A	0.7
5	☐	1250.000	1328.541	3403152.69	0.3824	A	1.2
6	☐	2500.000	2501.308	6469520.95	0.7199	A	1.6
7	☐	5000.000	4977.605	12667869.26	1.4326	A	1.3
8	☐			6134.72	0.0008	P	4.0

$$y = 2.8780\text{E-}004 * x + 2.4456\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01951$$

$$BEC = 0.008497$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			12.22		P	15.7
3	☐			45.55		P	15.2
4	☐			123.34		P	9.7
5	☐			213.34		P	16.9
6	☐			328.90		P	11.4
7	☐			728.92		P	3.0
8	☐			167.78		P	14.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			0.00		P	
3	☐			15.55		P	68.9
4	☐			20.00		P	16.7
5	☐			57.78		P	20.3
6	☐			62.22		P	29.5
7	☐			177.78		P	11.9
8	☐			115.56		P	13.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			4.44		P	43.4
3	☐			37.78		P	18.4
4	☐			60.00		P	27.8
5	☐			103.33		P	44.4
6	☐			220.00		P	26.4
7	☐			423.34		P	10.1
8	☐			1051.16		P	11.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			22.22		P	52.7
4	☐			61.11		P	26.9
5	☐			107.78		P	12.9
6	☐			200.00		P	21.3
7	☐			466.68		P	5.0
8	☐			743.36		P	7.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	26.4
2	☐			32.22		P	21.5
3	☐			46.67		P	24.7
4	☐			83.33		P	8.0
5	☐			94.45		P	4.1
6	☐			171.11		P	6.0
7	☐			390.01		P	4.8
8	☐			1121.17		P	4.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			271.12		P	12.9
2	☐			264.45		P	9.5
3	☐			301.12		P	19.5
4	☐			288.89		P	15.7
5	☐			340.01		P	9.4
6	☐			356.68		P	6.5
7	☐			458.90		P	14.2
8	☐			1012.27		P	2.7

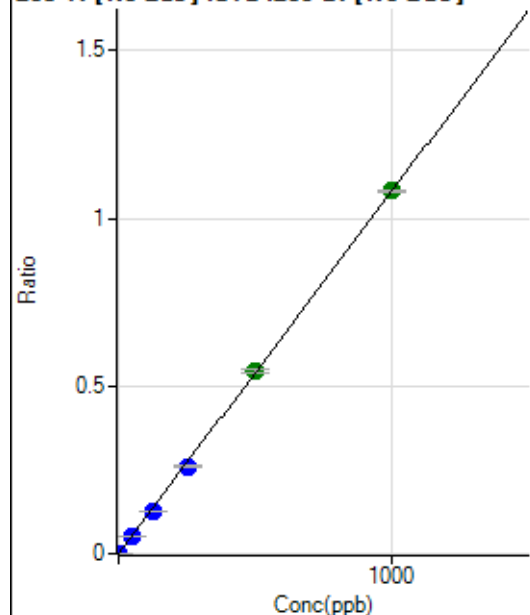
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	24.2
2	☐			65.56		P	14.7
3	☐			70.00		P	9.5
4	☐			75.55		P	30.0
5	☐			66.67		P	17.3
6	☐			86.67		P	25.2
7	☐			146.67		P	12.0
8	☐			176.67		P	15.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	23.9
2	☐			43.34		P	13.3
3	☐			50.00		P	29.1
4	☐			54.45		P	19.7
5	☐			63.33		P	9.1
6	☐			41.11		P	4.7
7	☐			76.67		P	19.9
8	☐			122.22		P	8.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0000	P	10.2
2	☐	1.000	0.878	4935.39	0.0010	P	2.9
3	☐	50.000	46.375	256938.41	0.0501	P	2.0
4	☐	125.000	115.871	645114.14	0.1251	P	1.2
5	☐	250.000	239.660	1313539.28	0.2588	P	1.9
6	☐	500.000	504.288	2742041.97	0.5445	A	1.9
7	☐	1000.000	1001.764	5278963.57	1.0816	A	0.7
8	☐			1456.76	0.0004	P	4.0

$$y = 0.0011 * x + 1.2339E-005$$

$$R = 0.9999$$

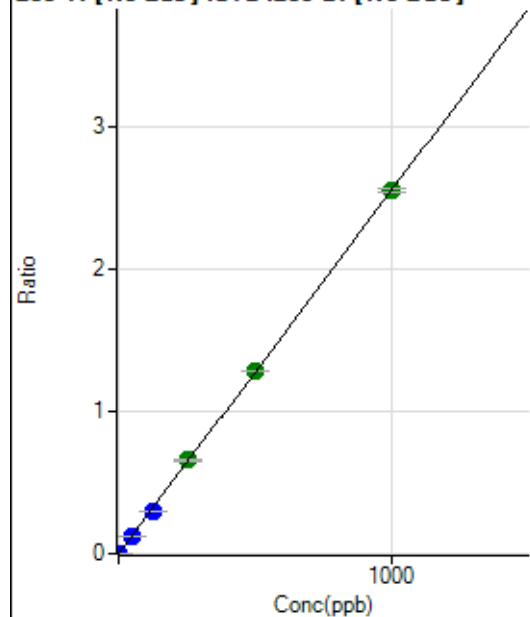
$$DL = 0.003502$$

$$BEC = 0.01143$$

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	95.55	0.0000	P	12.9
2	☐	1.000	0.881	11653.99	0.0023	P	2.5
3	☐	50.000	46.011	602684.25	0.1175	P	1.3
4	☐	125.000	115.334	1518112.72	0.2944	P	1.2
5	☐	250.000	257.254	3333486.41	0.6567	A	2.1
6	☐	500.000	501.557	6448286.43	1.2803	A	0.4
7	☐	1000.000	998.816	12444357.31	2.5496	A	1.1
8	☐			3414.91	0.0009	P	2.0

$$y = 0.0026 * x + 1.8583E-005$$

$$R = 0.9999$$

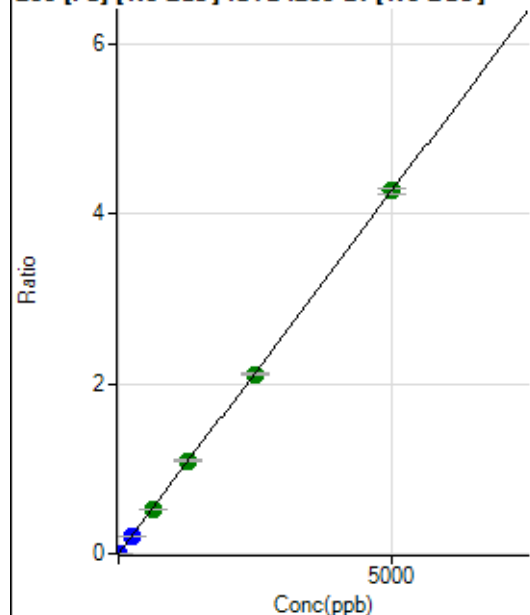
$$DL = 0.002813$$

$$BEC = 0.00728$$

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	202.23	0.0000	P	3.6
2	☐	1.000	0.854	3952.83	0.0008	P	2.1
3	☐	250.000	227.806	998510.73	0.1946	P	1.0
4	☐	625.000	614.848	2707919.34	0.5252	A	2.2
5	☐	1250.000	1280.530	5552122.00	1.0938	A	3.0
6	☐	2500.000	2477.719	10658591.16	2.1163	A	0.9
7	☐	5000.000	5005.887	20868848.86	4.2757	A	1.4
8	☐			8795.15	0.0024	P	3.0

$$y = 8.5413\text{E-}004 * x + 3.9367\text{E-}005$$

$$R = 1.0000$$

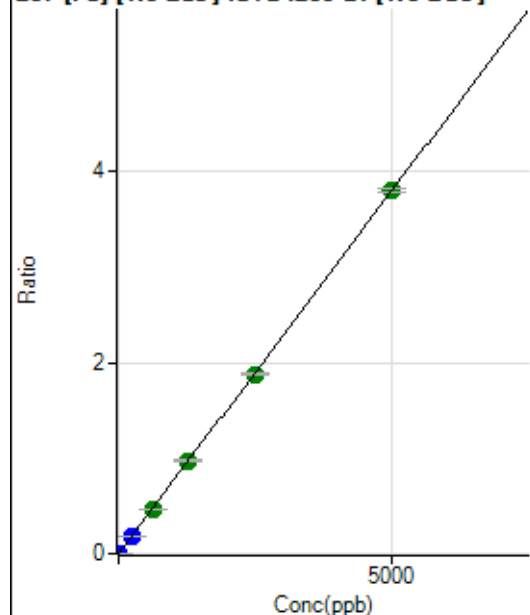
$$DL = 0.005001$$

$$BEC = 0.04609$$

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	188.89	0.0000	P	5.5
2	☐	1.000	0.869	3579.40	0.0007	P	4.9
3	☐	250.000	229.376	893826.04	0.1742	P	0.8
4	☐	625.000	617.429	2417591.77	0.4689	A	1.9
5	☐	1250.000	1280.794	4936664.34	0.9726	A	2.8
6	☐	2500.000	2478.729	9479488.82	1.8822	A	0.7
7	☐	5000.000	5004.915	18549026.11	3.8004	A	1.0
8	☐			7815.64	0.0021	P	0.5

$$y = 7.5932\text{E-}004 * x + 3.6760\text{E-}005$$

$$R = 1.0000$$

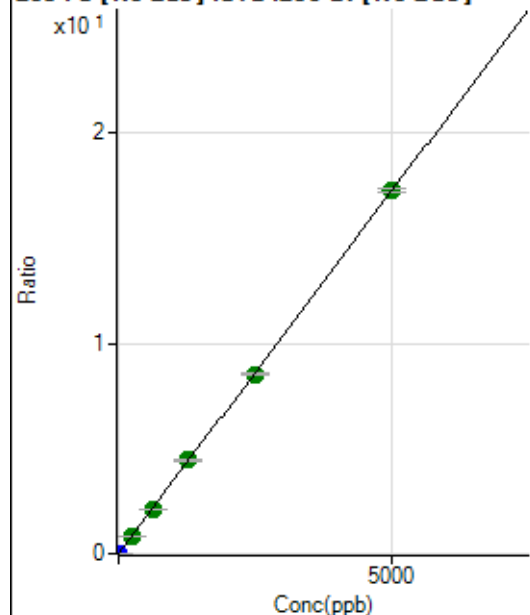
$$DL = 0.008032$$

$$BEC = 0.04841$$

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	868.91	0.0002	P	1.1
2	☐	1.000	0.862	16149.50	0.0031	P	0.7
3	☐	250.000	239.279	4237341.59	0.8259	A	1.0
4	☐	625.000	618.605	11007484.35	2.1348	A	1.4
5	☐	1250.000	1289.300	22584784.35	4.4492	A	1.9
6	☐	2500.000	2474.863	43012586.16	8.5403	A	0.5
7	☐	5000.000	5004.079	84281563.74	17.2679	A	0.9
8	☐			35674.34	0.0096	P	0.6

$$y = 0.0035 * x + 1.6915E-004$$

$$R = 0.9999$$

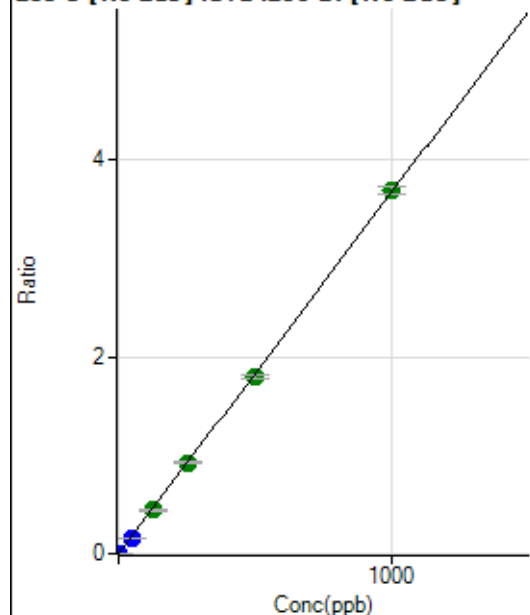
$$DL = 0.001605$$

$$BEC = 0.04902$$

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	5.55	0.0000	P	68.2
2	☐	1.000	0.830	15662.64	0.0030	P	2.7
3	☐	50.000	43.570	820994.45	0.1600	P	1.2
4	☐	125.000	120.432	2280540.92	0.4423	A	1.5
5	☐	250.000	252.295	4703467.36	0.9266	A	2.2
6	☐	500.000	491.168	9084466.88	1.8039	A	1.8
7	☐	1000.000	1004.735	18009992.09	3.6900	A	2.2
8	☐			2045.74	0.0006	P	1.6

$$y = 0.0037 * x + 1.0759E-006$$

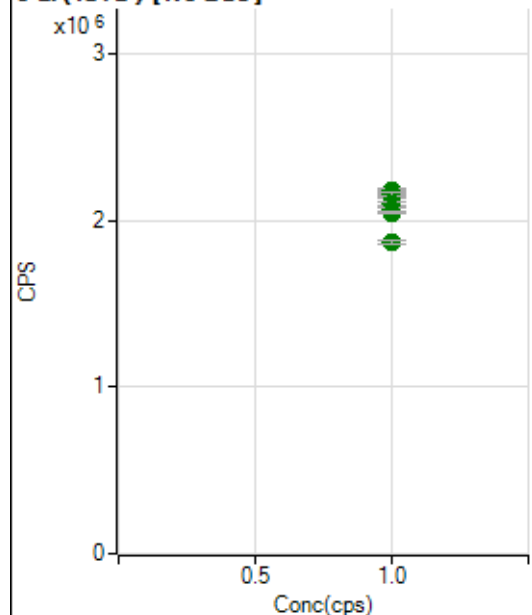
$$R = 0.9999$$

$$DL = 0.0005993$$

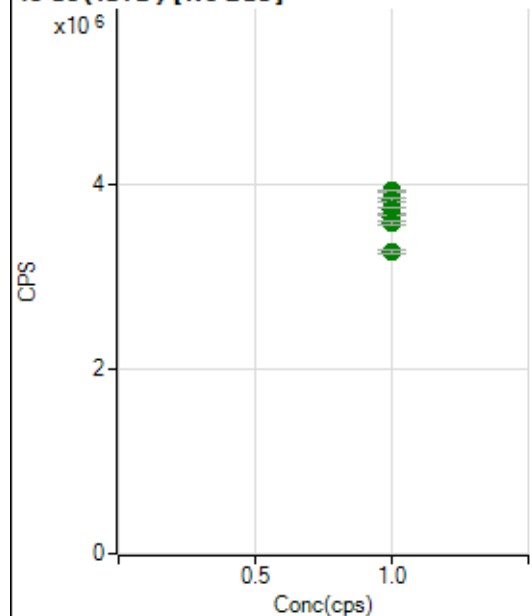
$$BEC = 0.000293$$

Weight: <None>

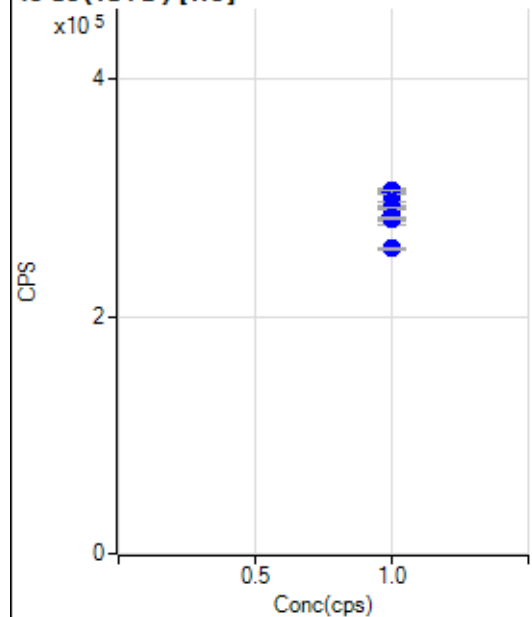
Min Conc: 0

6 Li (ISTD) [No Gas]

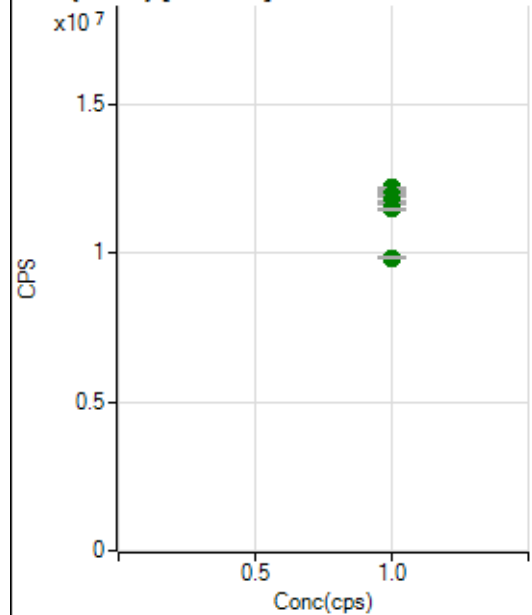
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2159056.69		A	1.8
2	☐	1.000		2176420.49		A	0.6
3	☐	1.000		2176656.23		A	1.4
4	☐	1.000		2156724.60		A	0.8
5	☐	1.000		2102304.62		A	1.1
6	☐	1.000		2063930.66		A	1.2
7	☐	1.000		2047348.95		A	0.7
8	☐	1.000		1873828.55		A	1.3

45 Sc (ISTD) [No Gas]

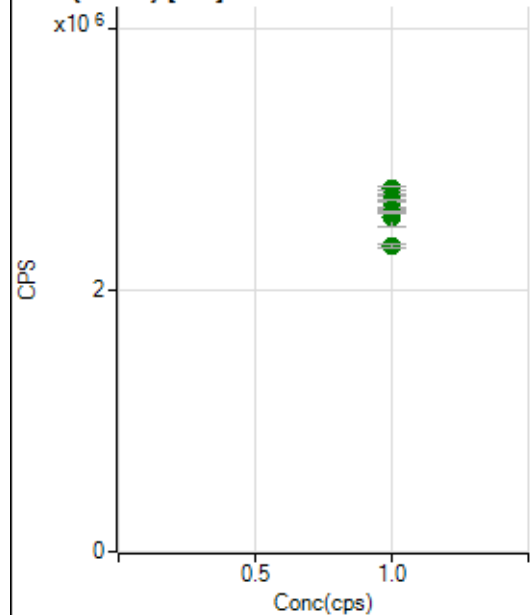
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3919715.77		A	0.3
2	☐	1.000		3923700.36		A	0.8
3	☐	1.000		3916230.91		A	0.2
4	☐	1.000		3827242.03		A	1.2
5	☐	1.000		3715106.64		A	1.4
6	☐	1.000		3633750.74		A	1.6
7	☐	1.000		3576218.63		A	0.8
8	☐	1.000		3263851.23		A	0.8

45 Sc (ISTD) [He]

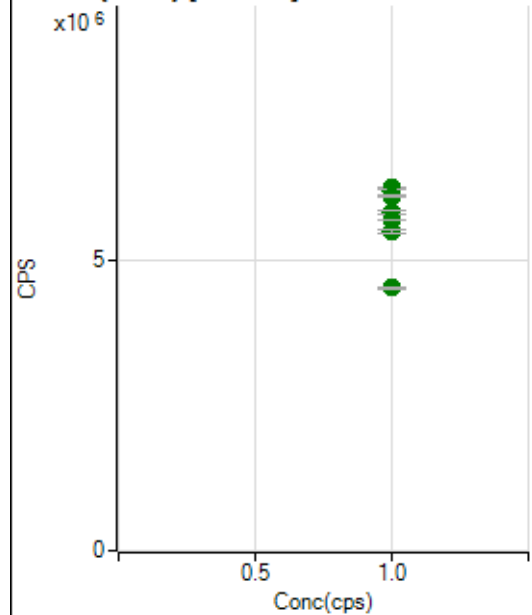
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		285611.17		P	5.4
2	☐	1.000		305748.71		P	0.9
3	☐	1.000		304701.56		P	0.8
4	☐	1.000		296277.42		P	0.3
5	☐	1.000		291245.45		P	0.7
6	☐	1.000		282394.36		P	1.2
7	☐	1.000		283356.03		P	0.5
8	☐	1.000		257183.90		P	0.4

89 Y (ISTD) [No Gas]

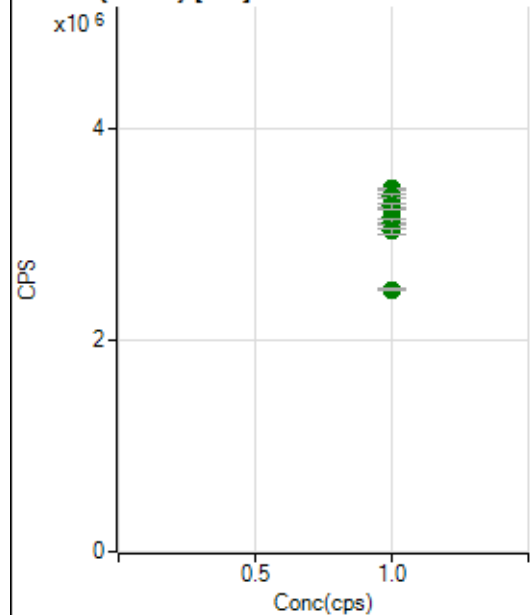
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12200454.54		A	0.7
2	☐	1.000		12068886.48		A	0.5
3	☐	1.000		12172817.32		A	0.7
4	☐	1.000		11936873.02		A	0.9
5	☐	1.000		11746264.83		A	0.9
6	☐	1.000		11650799.97		A	0.5
7	☐	1.000		11486372.74		A	0.8
8	☐	1.000		9860193.88		A	1.1

89 Y(ISTD) [He]

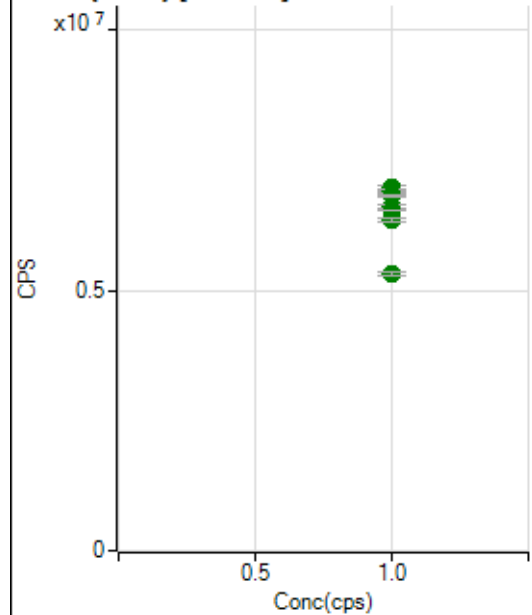
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2559511.75		A	5.8
2	☐	1.000		2769584.75		A	1.1
3	☐	1.000		2719314.82		A	0.7
4	☐	1.000		2683053.76		A	0.5
5	☐	1.000		2678032.72		A	0.5
6	☐	1.000		2619427.09		A	0.6
7	☐	1.000		2585872.10		A	0.6
8	☐	1.000		2337924.13		A	1.3

103 Rh(ISTD) [No Gas]

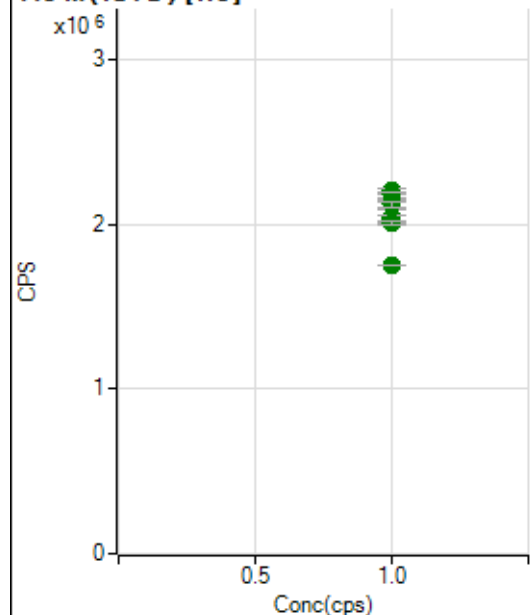
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6239545.74		A	0.9
2	☐	1.000		6224018.45		A	0.7
3	☐	1.000		6173986.02		A	1.8
4	☐	1.000		6096308.45		A	0.6
5	☐	1.000		5836484.64		A	1.1
6	☐	1.000		5684421.93		A	0.4
7	☐	1.000		5501263.88		A	1.1
8	☐	1.000		4516521.56		A	0.8

103 Rh (ISTD) [He]

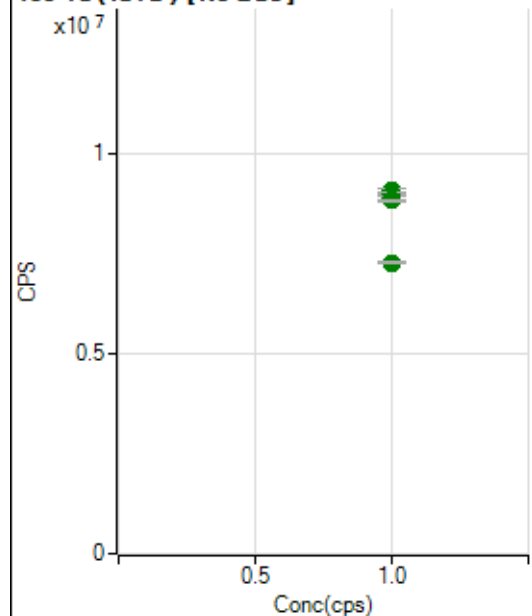
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3169510.02		A	4.3
2	☐	1.000		3430474.36		A	0.4
3	☐	1.000		3365154.36		A	1.0
4	☐	1.000		3253035.89		A	0.2
5	☐	1.000		3264615.68		A	2.1
6	☐	1.000		3116880.89		A	1.6
7	☐	1.000		3028746.52		A	1.3
8	☐	1.000		2479359.94		A	0.6

115 In (ISTD) [No Gas]

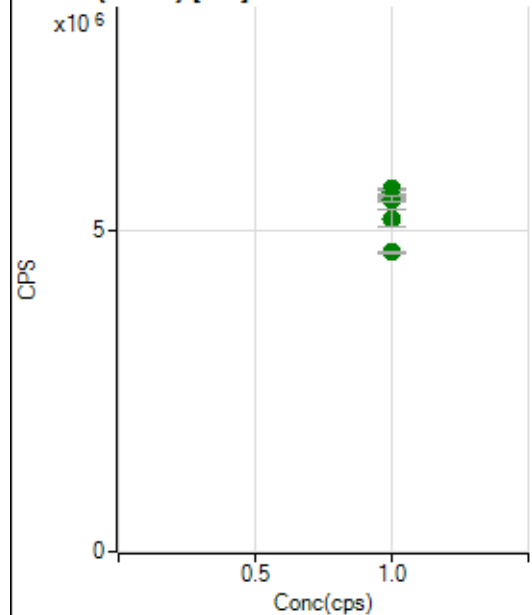
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6969444.72		A	0.9
2	☐	1.000		6930066.53		A	0.9
3	☐	1.000		6916216.93		A	1.0
4	☐	1.000		6824280.22		A	0.8
5	☐	1.000		6622561.73		A	1.4
6	☐	1.000		6532245.87		A	0.1
7	☐	1.000		6355167.46		A	0.7
8	☐	1.000		5315222.90		A	1.5

115 In (ISTD) [He]

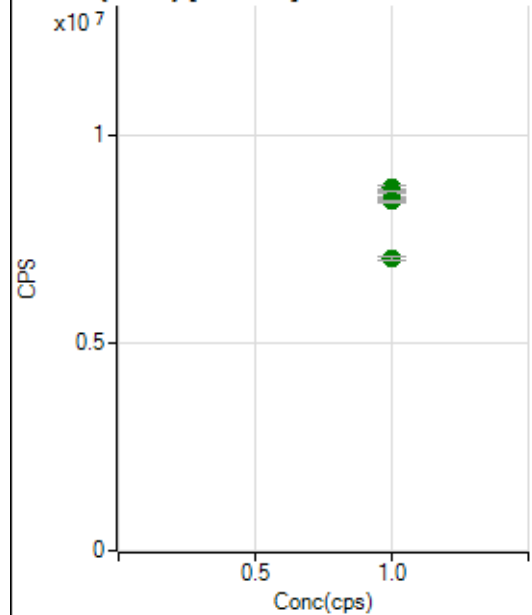
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2037234.87		A	4.5
2	☐	1.000		2201319.89		A	1.7
3	☐	1.000		2179010.69		A	1.5
4	☐	1.000		2140324.58		A	0.8
5	☐	1.000		2121489.22		A	1.5
6	☐	1.000		2028828.58		A	2.1
7	☐	1.000		2009020.86		A	0.9
8	☐	1.000		1747707.31		A	0.2

159 Tb (ISTD) [No Gas]

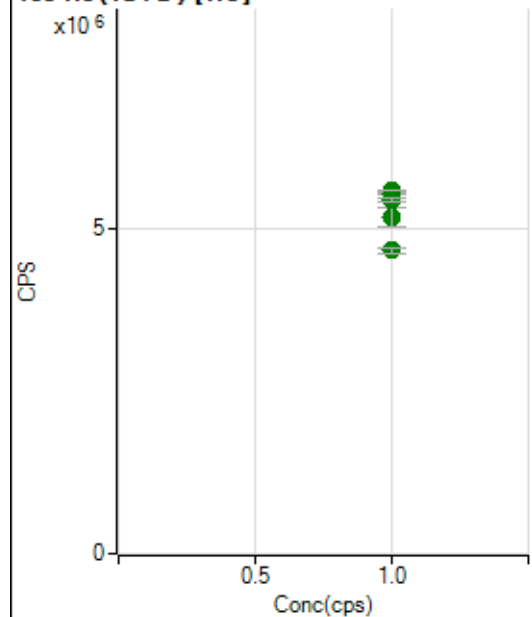
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9074523.48		A	1.1
2	☐	1.000		9008447.09		A	0.5
3	☐	1.000		9076069.31		A	1.0
4	☐	1.000		8988280.63		A	0.3
5	☐	1.000		8900648.34		A	0.7
6	☐	1.000		8988130.42		A	1.4
7	☐	1.000		8842395.77		A	0.5
8	☐	1.000		7280950.59		A	1.0

159 Tb (ISTD) [He]

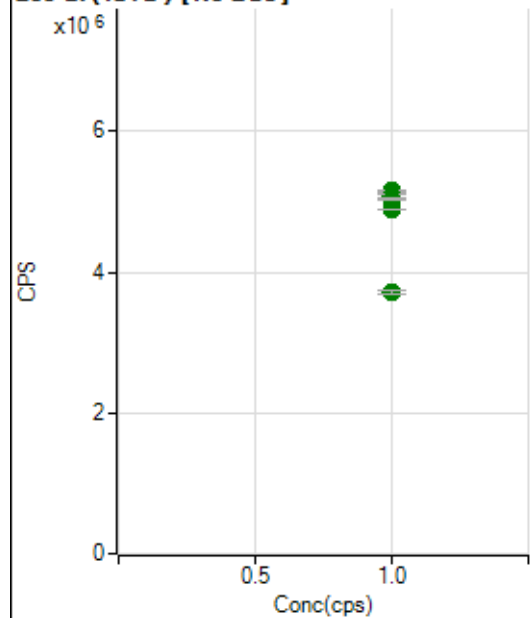
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5188391.69		A	5.3
2	☐	1.000		5646525.51		A	0.5
3	☐	1.000		5585431.31		A	1.4
4	☐	1.000		5533894.74		A	0.7
5	☐	1.000		5561659.71		A	2.4
6	☐	1.000		5524061.83		A	1.8
7	☐	1.000		5489944.08		A	1.2
8	☐	1.000		4659650.18		A	0.7

165 Ho (ISTD) [No Gas]

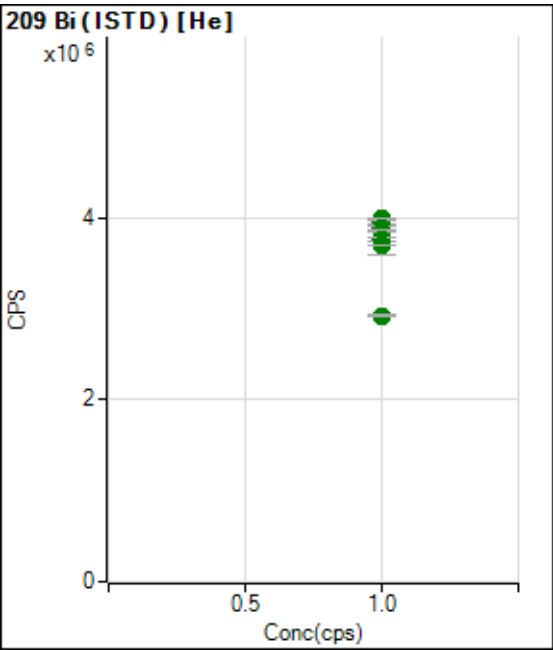
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8608138.97		A	0.5
2	☐	1.000		8653273.90		A	0.6
3	☐	1.000		8729138.06		A	1.4
4	☐	1.000		8665474.17		A	1.3
5	☐	1.000		8477157.17		A	0.6
6	☐	1.000		8620466.33		A	0.7
7	☐	1.000		8404438.07		A	0.8
8	☐	1.000		7026812.33		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5205711.31		A	5.7
2	☐	1.000		5597455.96		A	0.7
3	☐	1.000		5596267.59		A	0.1
4	☐	1.000		5564705.75		A	0.7
5	☐	1.000		5558275.06		A	2.1
6	☐	1.000		5463900.51		A	1.2
7	☐	1.000		5460310.41		A	1.1
8	☐	1.000		4680144.34		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5136526.45		A	1.2
2	☐	1.000		5139613.57		A	0.5
3	☐	1.000		5131073.68		A	1.1
4	☐	1.000		5156387.95		A	0.5
5	☐	1.000		5076677.98		A	1.0
6	☐	1.000		5036545.59		A	0.7
7	☐	1.000		4880844.02		A	0.1
8	☐	1.000		3711889.46		A	1.8



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3692000.16		A	5.1
2	☐	1.000		3948313.90		A	1.3
3	☐	1.000		3982889.49		A	0.8
4	☐	1.000		3884303.00		A	0.8
5	☐	1.000		3847667.02		A	0.5
6	☐	1.000		3757329.08		A	1.4
7	☐	1.000		3687830.81		A	0.1
8	☐	1.000		2917259.61		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7010524 MS.b

Acq. Date-Time 2024-01-05 11:32:10

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		14934	149337.43			1.847	5.000
24		71973	719727.77			2.641	5.000
25		9354	93538.86			2.035	5.000
26		10852	108517.87			2.032	5.000
59		79326	793263.35			1.655	5.000
113		11342	113423.16			1.922	5.000
115		141836	1418355.71			1.808	5.000
206		29669	296690.78			1.743	5.000
207		26069	260689.40			1.806	5.000
208		62268	622683.53			1.790	5.000
220		0	2.30			50.048	

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

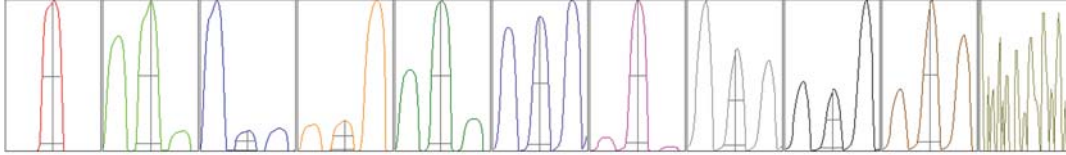
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14974	14451	15048	15064	15133
24	71684	68768	73258	73029	73125
25	9376	9020	9442	9473	9459
26	10843	10474	10953	11006	10983
59	80338	77027	79629	79892	79745
113	11547	10971	11415	11402	11377
115	144522	138347	142816	143469	140023
206	29956	28750	29804	29903	29933
207	26443	25245	26211	26201	26244
208	63204	60351	62802	62623	62362

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	25374.22	9.00	8.90 - 9.10	
24	124138.36	24.05	23.90 - 24.10	
25	16312.16	25.00	24.90 - 25.10	
26	18461.69	26.00	25.90 - 26.10	
59	137635.88	58.95	58.90 - 59.10	
113	23044.54	113.00	112.90 - 113.10	
115	277985.00	115.05	114.90 - 115.10	
206	62714.71	206.05	205.90 - 206.10	
207	56166.98	207.05	206.90 - 207.10	
208	137044.75	208.05	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.742	0.900	
24	0.61	0.781	0.900	
25	0.60	0.721	0.900	
26	0.62	0.740	0.900	
59	0.59	0.735	0.900	
113	0.49	0.715	0.900	
115	0.52	0.689	0.900	
206	0.48	0.692	0.900	
207	0.46	0.692	0.900	
208	0.46	0.710	0.900	
220				

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	8.3 V	Deflect	15.4 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	133	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.8 mm
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EM

Discriminator	4.7 mV	Analog HV	2305 V	Pulse HV	1364 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		23991	239913.16			1.073	
89		34166	341662.91			1.242	
205		31529	315285.76			1.906	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	23573	24270	24045	24090	23978
89	33464	34608	34296	34287	34176
205	30497	32060	31779	31694	31613

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	8.8 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	133	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.8 mm
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EM

Discriminator	4.7 mV	Analog HV	2305 V	Pulse HV	1364 V
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