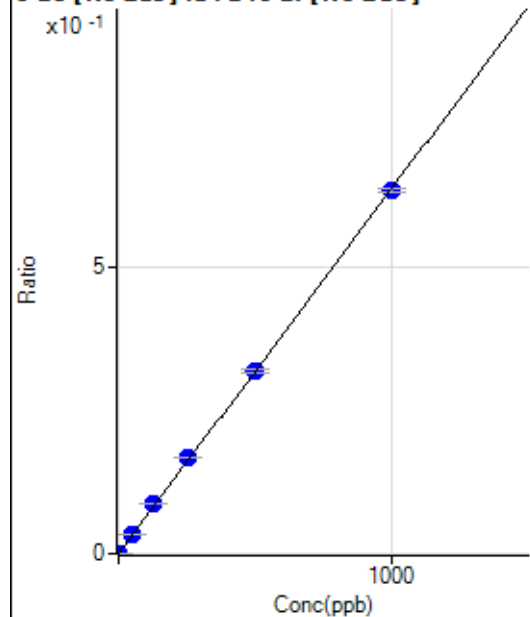


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7051023 MS.b\
Analysis File: P7051023 MS.batch.bin
DA Date-Time: 2023-05-10 14:07:09
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-05-10 12:32:29
2	005CALS.d	S02	2023-05-10 12:35:44
3	006CALS.d	S03	2023-05-10 12:39:00
4	007CALS.d	S04	2023-05-10 12:42:06
5	008CALS.d	S05	2023-05-10 12:45:06
6	009CALS.d	S06	2023-05-10 12:47:59
7	010CALS.d	S07	2023-05-10 12:50:47
8	011CALS.d	S08	2023-05-10 12:53:33

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.11	0.0000	P	44.8
2	☐	1.000	1.159	1151.17	0.0008	P	3.4
3	☐	50.000	53.260	50778.21	0.0339	P	1.2
4	☐	125.000	135.535	123919.33	0.0861	P	1.2
5	☐	250.000	264.217	236738.26	0.1679	P	0.6
6	☐	500.000	500.832	450882.32	0.3183	P	2.9
7	☐	1000.000	994.550	867221.56	0.6320	P	0.9
8	☐			541.12	0.0004	P	9.5

$$y = 6.3545\text{E-}004 * x + 2.0719\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.04387$$

$$BEC = 0.0326$$

Weight: <None>

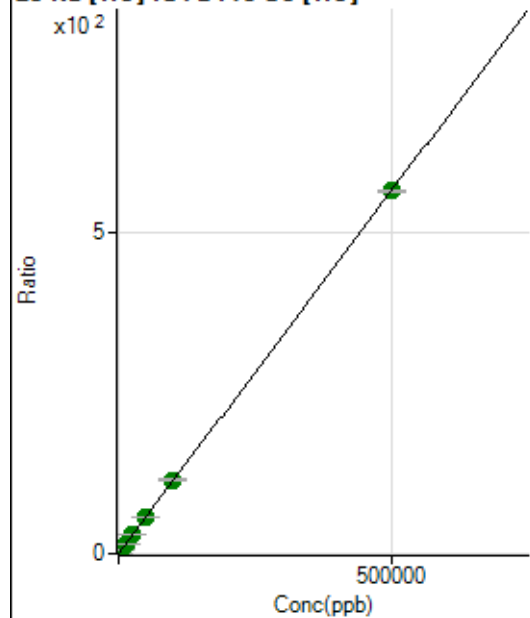
Min Conc: 0

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	7388.50	0.0239	P	0.4
2	☐	500.000	523.954	193091.45	0.6157	P	0.4
3	☐	5000.000	5209.445	1815932.19	5.9077	A	0.7
4	☐	12500.000	13020.227	4327028.58	14.7295	A	0.9
5	☐	25000.000	25903.227	8446072.03	29.2801	A	0.4
6	☐	50000.000	50571.383	16434350.45	57.1413	A	0.9
7	☐	100000.00	100826.26	32185653.13	113.9012	A	2.3
8	☐	500000.00	499717.32	138104345.7	564.4249	A	0.5

$$y = 0.0011 * x + 0.0239$$

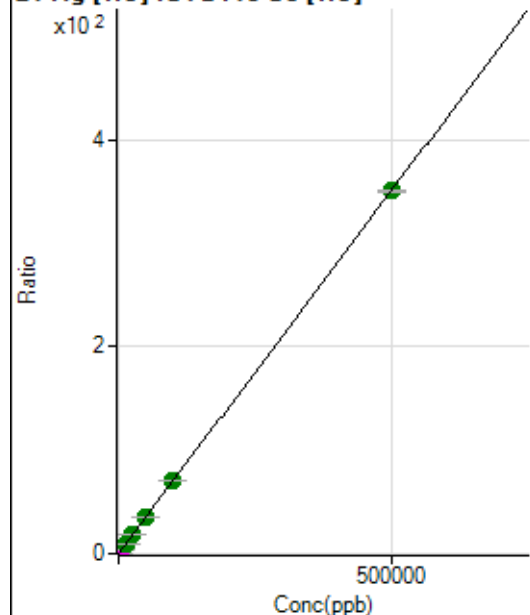
$$R = 1.0000$$

$$DL = 0.2451$$

$$BEC = 21.2$$

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	342.23	0.0011	P	13.7
2	☐	500.000	518.413	114418.08	0.3649	P	0.9
3	☐	5000.000	5359.374	1156177.35	3.7615	M	2.1
4	☐	12500.000	13273.470	2736356.25	9.3144	A	1.2
5	☐	25000.000	26065.695	5275882.14	18.2900	A	0.4
6	☐	50000.000	51086.139	10309510.05	35.8455	A	1.0
7	☐	100000.00	100734.20	19973176.09	70.6810	A	1.9
8	☐	500000.00	499668.31	85783865.39	350.5919	A	0.7

$$y = 7.0165E-004 * x + 0.0011$$

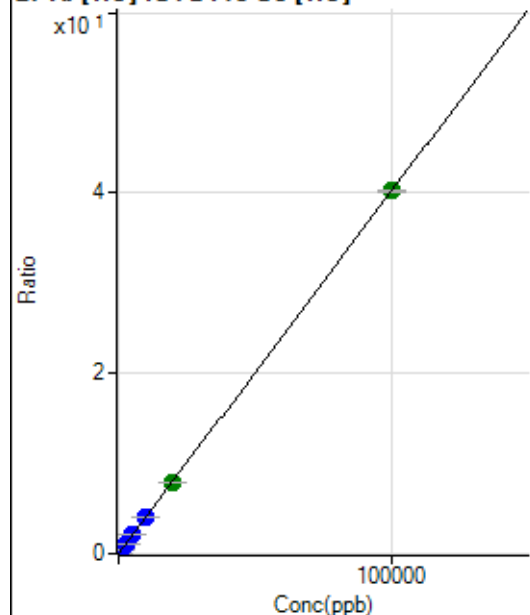
$$R = 1.0000$$

$$DL = 0.6488$$

$$BEC = 1.58$$

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	34.45	0.0001	P	39.1
2	☐	20.000	22.990	2933.64	0.0094	P	3.4
3	☐	1000.000	1056.616	130611.97	0.4249	P	0.7
4	☐	2500.000	2629.865	310644.98	1.0574	P	0.4
5	☐	5000.000	5232.553	606850.82	2.1038	P	0.4
6	☐	10000.000	10109.011	1168997.57	4.0643	P	0.1
7	☐	20000.000	19655.934	2233111.37	7.9026	A	2.3
8	☐	100000.00	100042.47	9841469.65	40.2213	A	0.8

$$y = 4.0204E-004 * x + 1.1160E-004$$

$$R = 1.0000$$

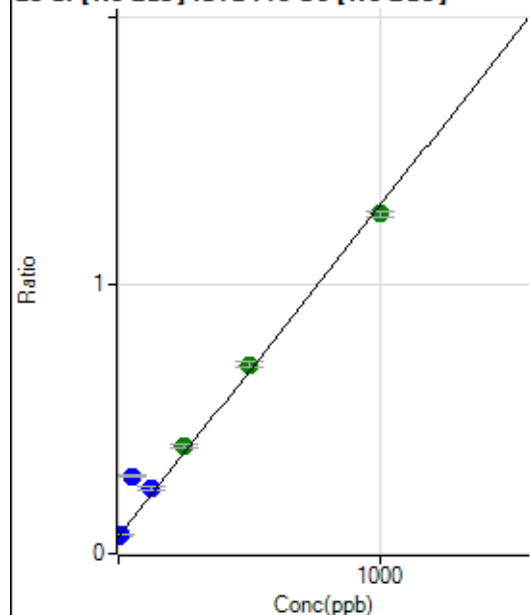
$$DL = 0.326$$

$$BEC = 0.2776$$

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	227789.62	0.0639	P	0.7
2	☐	10.000	7.188	260066.25	0.0728	P	0.2
3	☐	50.000	182.197	1004964.46	0.2884	P	1.4
4	☐	125.000	145.930	825205.72	0.2437	P	4.9
5	☐	250.000	275.446	1325704.86	0.4033	A	3.1
6	☐	500.000	519.076	2288366.65	0.7034	A	3.1
7	☐	1000.000	974.902	4077245.50	1.2649	A	2.0
8	☐			659287.61	0.2231	P	8.7

$$y = 0.0012 * x + 0.0639$$

$$R = 0.9911$$

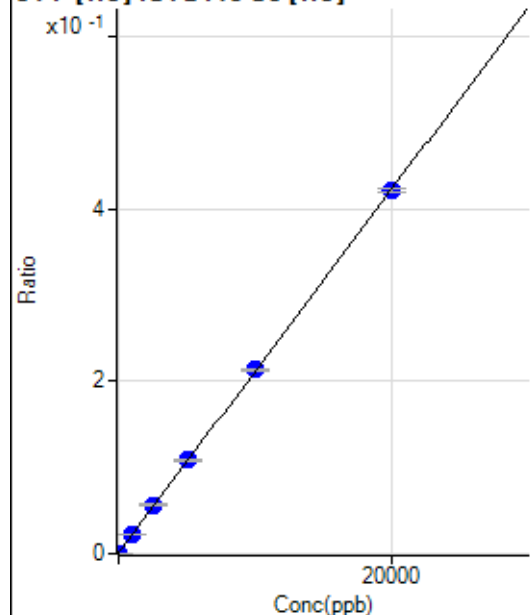
$$DL = 1.139$$

$$BEC = 51.91$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-7.812	213.34	0.0007	P	4.3
2	☐	0.000	7.812	320.01	0.0010	P	5.4
3	☐	1000.000	1060.407	7129.50	0.0232	P	0.8
4	☐	2500.000	2646.111	16624.67	0.0566	P	2.9
5	☐	5000.000	5100.919	31243.06	0.1083	P	1.0
6	☐	10000.000	10066.735	61238.44	0.2129	P	0.6
7	☐	20000.000	19920.118	118828.88	0.4205	P	1.2
8	☐			214.45	0.0009	P	13.6

$$y = 2.1066E-005 * x + 8.5595E-004$$

$$R = 1.0000$$

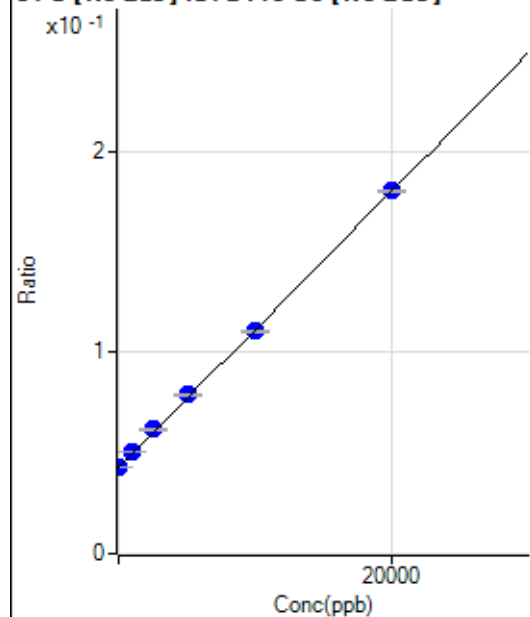
$$DL = 6.089$$

$$BEC = 40.63$$

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	9.754	153158.27	0.0430	P	0.7
2	☐	0.000	-9.754	153114.71	0.0429	P	0.4
3	☐	1000.000	1111.884	176224.40	0.0506	P	1.4
4	☐	2500.000	2728.348	208957.68	0.0617	P	1.1
5	☐	5000.000	5238.416	259506.82	0.0789	P	1.4
6	☐	10000.000	9820.104	359282.93	0.1104	P	1.4
7	☐	20000.000	19996.206	581370.06	0.1803	P	0.4
8	☐			125504.50	0.0424	P	1.1

$$y = 6.8722\text{E-}006 * x + 0.0429$$

$$R = 0.9998$$

$$DL = 102.5$$

$$BEC = 6247$$

Weight: <None>

Min Conc: 0

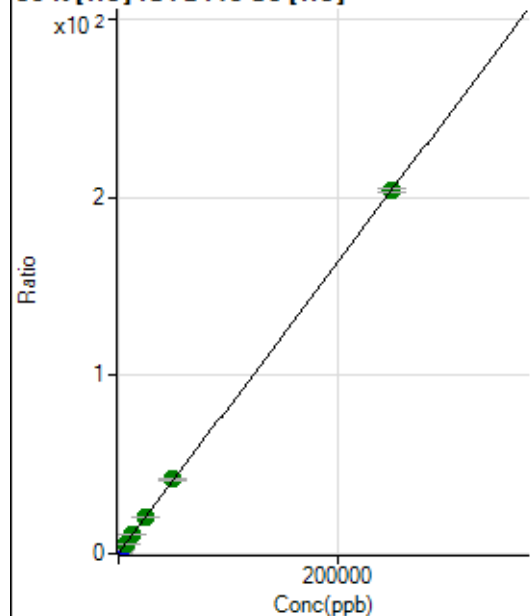
35 Cl [No Gas] No available calibration points



	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	44615.22	0.1446	P	0.7
2	☐	500.000	532.378	181584.90	0.5790	P	1.3
3	☐	2500.000	2817.440	751183.45	2.4438	P	0.7
4	☐	6250.000	6602.072	1625133.00	5.5323	A	1.7
5	☐	12500.000	13005.495	3103167.21	10.7579	A	1.4
6	☐	25000.000	25410.229	6005939.91	20.8809	A	0.7
7	☐	50000.000	50854.561	11768740.52	41.6451	A	1.3
8	☐	250000.00	249750.74	49904412.59	203.9571	A	1.2

$$y = 8.1606E-004 * x + 0.1446$$

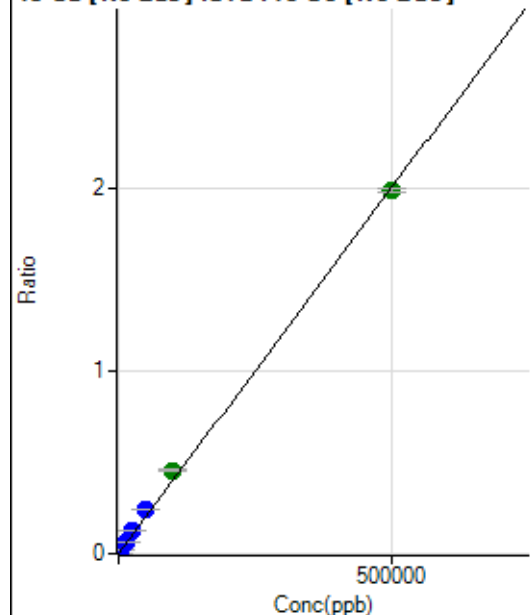
$$R = 1.0000$$

$$DL = 3.744$$

$$BEC = 177.2$$

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	93.33	0.0000	P	9.5
2	☐	500.000	554.208	8012.17	0.0022	P	0.4
3	☐	5000.000	6196.153	86455.50	0.0248	P	0.7
4	☐	12500.000	15620.777	211739.79	0.0625	P	1.8
5	☐	25000.000	30898.550	406419.20	0.1236	P	1.8
6	☐	50000.000	60068.518	781777.94	0.2403	P	2.8
7	☐	100000.00	113876.47	1468328.43	0.4555	A	1.6
8	☐	500000.00	495832.89	5869387.90	1.9833	A	1.2

$$y = 3.9998\text{E-}006 * x + 2.6203\text{E-}005$$

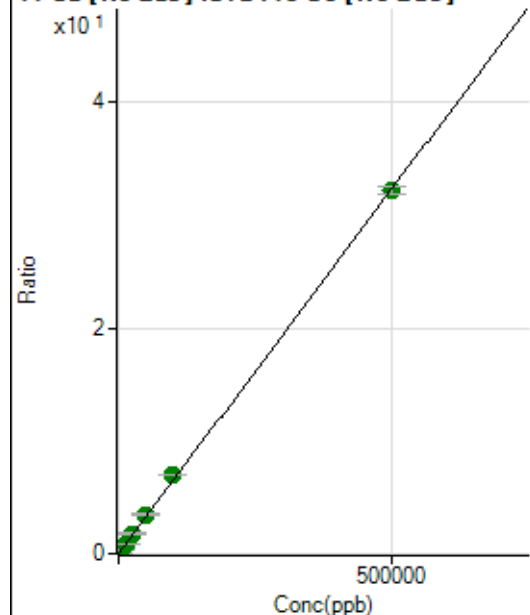
$$R = 0.9995$$

$$DL = 1.871$$

$$BEC = 6.551$$

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	5503.28	0.0015	P	2.7
2	☐	500.000	550.695	132403.81	0.0371	P	0.6
3	☐	5000.000	5620.926	1268833.56	0.3641	A	0.5
4	☐	12500.000	13870.869	3036089.57	0.8962	A	1.6
5	☐	25000.000	27613.800	5861481.30	1.7827	A	0.8
6	☐	50000.000	53643.681	11263564.56	3.4616	A	1.8
7	☐	100000.00	107634.85	22385462.17	6.9441	A	1.0
8	☐	500000.00	497937.44	95036918.58	32.1192	A	2.1

$$y = 6.4501\text{E-}005 * x + 0.0015$$

$$R = 0.9999$$

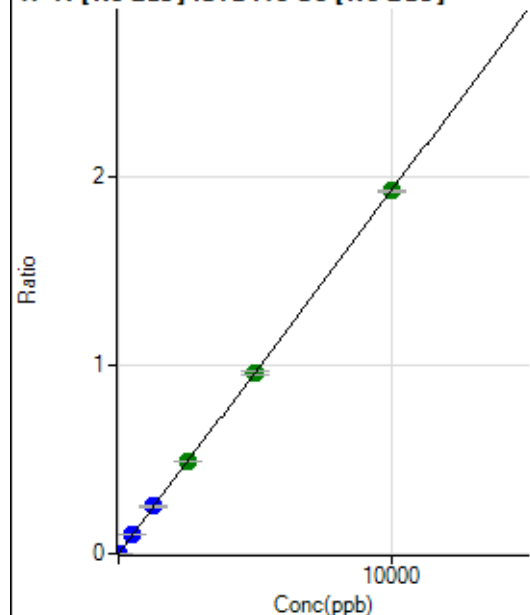
$$DL = 1.932$$

$$BEC = 23.95$$

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	50.00	0.0000	P	30.7
2	☐	5.000	5.029	3518.22	0.0010	P	0.9
3	☐	500.000	521.383	350815.54	0.1007	P	1.1
4	☐	1250.000	1305.782	853956.41	0.2521	P	2.3
5	☐	2500.000	2538.124	1611244.47	0.4900	A	0.7
6	☐	5000.000	4980.657	3128667.38	0.9616	A	2.3
7	☐	10000.000	9992.098	6218585.39	1.9291	A	0.8
8	☐			1597.88	0.0005	P	19.9

$$y = 1.9306\text{E-}004 * x + 1.4042\text{E-}005$$

$$R = 1.0000$$

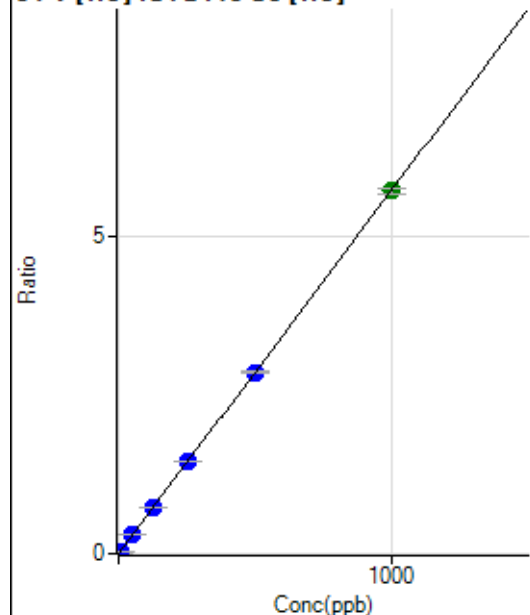
$$DL = 0.06702$$

$$BEC = 0.07274$$

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	2.22	0.0000	P	173.
2	☐	5.000	5.069	9125.06	0.0291	P	0.7
3	☐	50.000	51.412	90682.29	0.2950	P	1.4
4	☐	125.000	129.034	217524.28	0.7404	P	0.5
5	☐	250.000	254.845	421830.62	1.4624	P	0.4
6	☐	500.000	499.014	823570.76	2.8635	P	0.9
7	☐	1000.000	998.707	1619517.77	5.7308	A	1.5
8	☐			521.13	0.0021	P	5.8

$$y = 0.0057 * x + 7.1599\text{E-}006$$

$$R = 1.0000$$

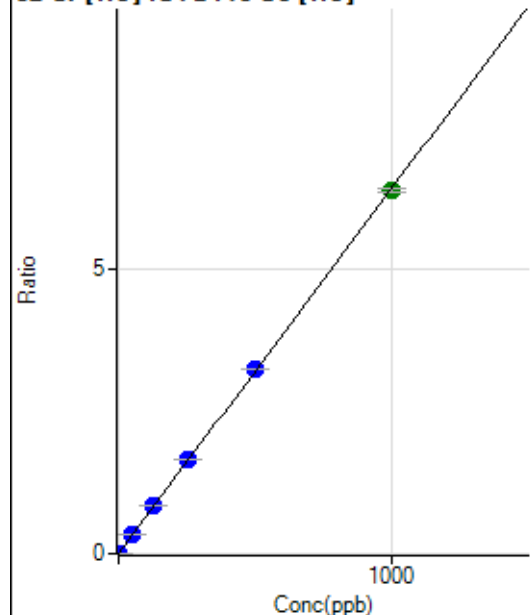
$$DL = 0.006484$$

$$BEC = 0.001248$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	844.48	0.0027	P	4.1
2	☐	2.000	2.059	4991.98	0.0159	P	1.0
3	☐	50.000	52.878	104879.96	0.3412	P	0.3
4	☐	125.000	132.037	249070.26	0.8479	P	1.3
5	☐	250.000	258.904	478816.63	1.6599	P	0.2
6	☐	500.000	505.229	930894.29	3.2366	P	0.5
7	☐	1000.000	994.136	1799082.25	6.3660	A	1.1
8	☐			12598.67	0.0515	P	2.3

$$y = 0.0064 * x + 0.0027$$

$$R = 0.9999$$

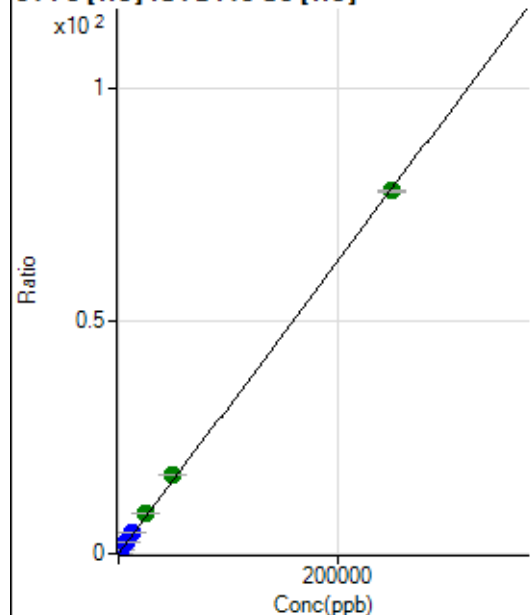
$$DL = 0.05206$$

$$BEC = 0.4276$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1442.31	0.0047	P	3.0
2	☐	50.000	55.918	6959.45	0.0222	P	3.4
3	☐	2500.000	2935.905	284189.89	0.9245	P	0.3
4	☐	6250.000	7346.415	677551.82	2.3064	P	0.5
5	☐	12500.000	14522.969	1313860.06	4.5549	P	0.5
6	☐	25000.000	27125.340	2445743.26	8.5033	A	0.2
7	☐	50000.000	54095.103	4791050.38	16.9532	A	0.9
8	☐	250000.00	248835.52	19077243.74	77.9671	A	0.8

$$y = 3.1331E-004 * x + 0.0047$$

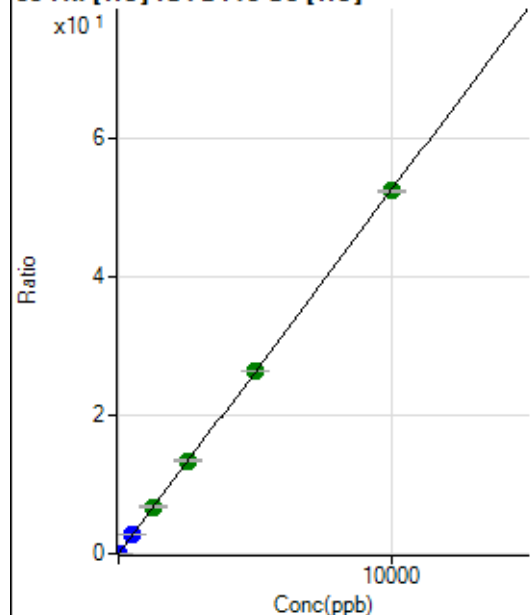
$$R = 0.9998$$

$$DL = 1.338$$

$$BEC = 14.92$$

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	106.66	0.0003	P	14.4
2	☐	1.000	1.034	1813.46	0.0058	P	3.1
3	☐	500.000	523.636	846136.88	2.7527	P	0.5
4	☐	1250.000	1294.396	1998957.69	6.8039	A	1.2
5	☐	2500.000	2549.279	3865308.45	13.3999	A	1.5
6	☐	5000.000	5014.896	7581676.62	26.3596	A	0.4
7	☐	10000.000	9973.501	14815280.75	52.4231	A	0.7
8	☐			6760.46	0.0276	P	3.6

$$y = 0.0053 * x + 3.4569E-004$$

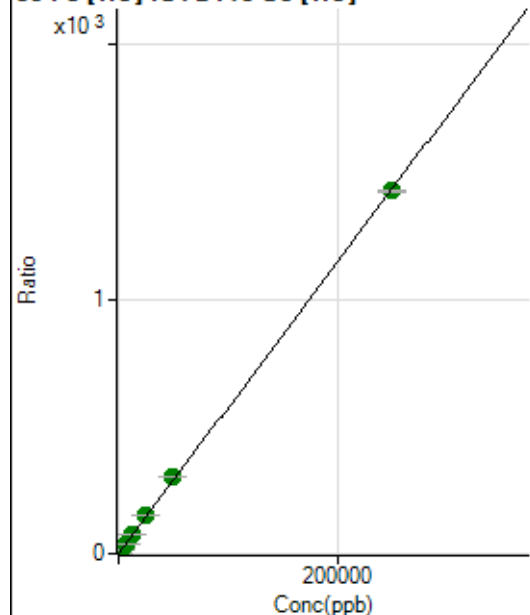
$$R = 1.0000$$

$$DL = 0.0285$$

$$BEC = 0.06577$$

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	10231.35	0.0332	P	3.3
2	☐	50.000	55.541	110020.45	0.3508	P	0.7
3	☐	2500.000	2735.644	4819920.80	15.6801	A	0.4
4	☐	6250.000	6881.199	11572968.30	39.3912	A	1.1
5	☐	12500.000	13597.318	22443429.94	77.8051	A	0.3
6	☐	25000.000	26510.203	43622010.46	151.6623	A	0.3
7	☐	50000.000	52956.611	85605655.95	302.9266	A	1.6
8	☐	250000.00	249184.65	348744110.3	1,425.283	A	0.8

$$y = 0.0057 * x + 0.0332$$

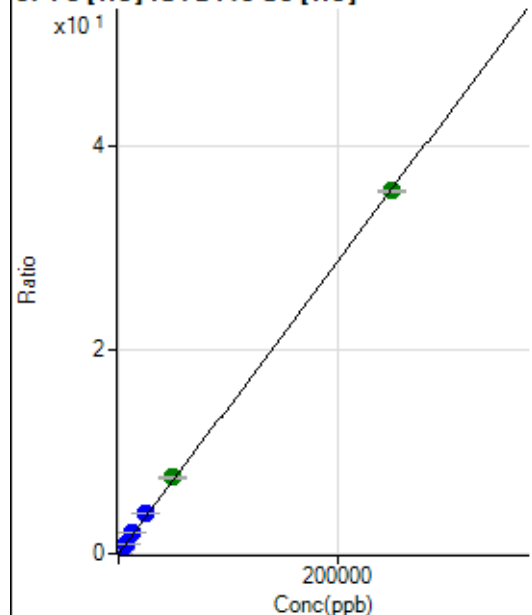
$$R = 0.9999$$

$$DL = 0.5794$$

$$BEC = 5.797$$

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	322.23	0.0010	P	15.9
2	☐	50.000	56.040	2833.63	0.0090	P	2.5
3	☐	2500.000	2865.475	125926.49	0.4097	P	0.4
4	☐	6250.000	7194.128	301684.15	1.0269	P	0.7
5	☐	12500.000	14151.924	582434.36	2.0191	P	0.6
6	☐	25000.000	27563.446	1130793.66	3.9316	P	0.5
7	☐	50000.000	52558.709	2118177.40	7.4960	A	2.2
8	☐	250000.00	249122.05	8692762.65	35.5261	A	0.8

$$y = 1.4260\text{E-}004 * x + 0.0010$$

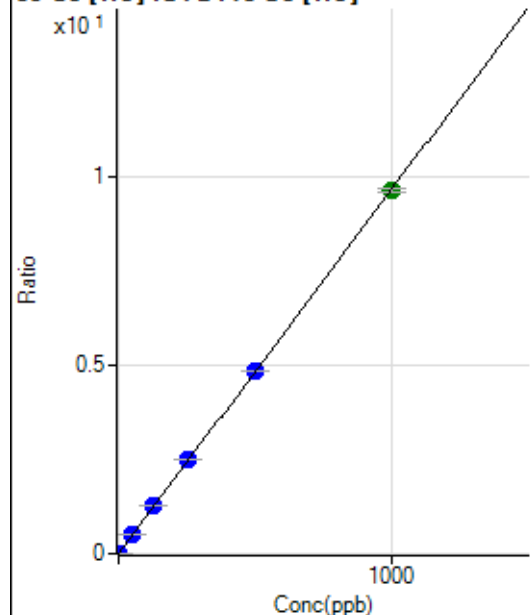
$$R = 0.9999$$

$$DL = 3.496$$

$$BEC = 7.325$$

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	26.67	0.0001	P	21.4
2	☐	1.000	1.082	3311.51	0.0106	P	7.6
3	☐	50.000	52.617	156547.48	0.5093	P	0.2
4	☐	125.000	132.433	376512.30	1.2817	P	0.9
5	☐	250.000	258.129	720585.79	2.4981	P	0.2
6	☐	500.000	501.204	1395030.94	4.8504	P	0.6
7	☐	1000.000	996.306	2724718.61	9.6416	A	1.2
8	☐			2633.59	0.0108	P	4.0

$$y = 0.0097 * x + 8.6387\text{E-}005$$

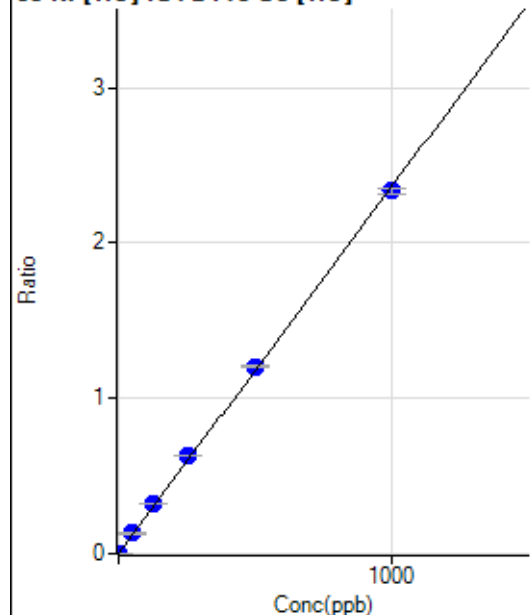
$$R = 0.9999$$

$$DL = 0.005744$$

$$BEC = 0.008927$$

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	48.89	0.0002	P	14.4
2	☐	1.000	1.071	842.25	0.0027	P	5.0
3	☐	50.000	55.243	40119.04	0.1305	P	1.4
4	☐	125.000	136.484	94665.05	0.3222	P	0.1
5	☐	250.000	266.580	181504.20	0.6292	P	0.4
6	☐	500.000	509.840	346079.58	1.2033	P	0.6
7	☐	1000.000	989.237	659724.26	2.3346	P	1.6
8	☐			2166.84	0.0089	P	0.8

$$y = 0.0024 * x + 1.5846E-004$$

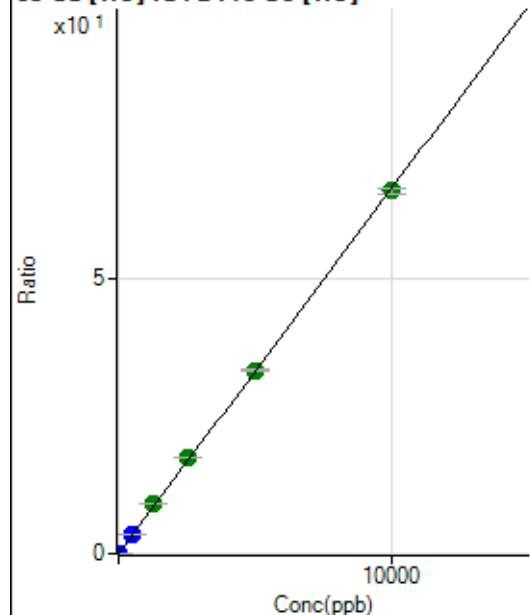
$$R = 0.9997$$

$$DL = 0.02905$$

$$BEC = 0.06715$$

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	895.59	0.0029	P	4.9
2	☐	2.000	2.093	5252.08	0.0167	P	0.6
3	☐	500.000	532.589	1083876.15	3.5261	P	0.7
4	☐	1250.000	1361.774	2647536.09	9.0114	A	1.2
5	☐	2500.000	2630.329	5020167.94	17.4033	A	1.0
6	☐	5000.000	5027.190	9565955.90	33.2592	A	0.5
7	☐	10000.000	9938.221	18579832.50	65.7471	A	1.3
8	☐			3288.17	0.0134	P	4.8

$$y = 0.0066 * x + 0.0029$$

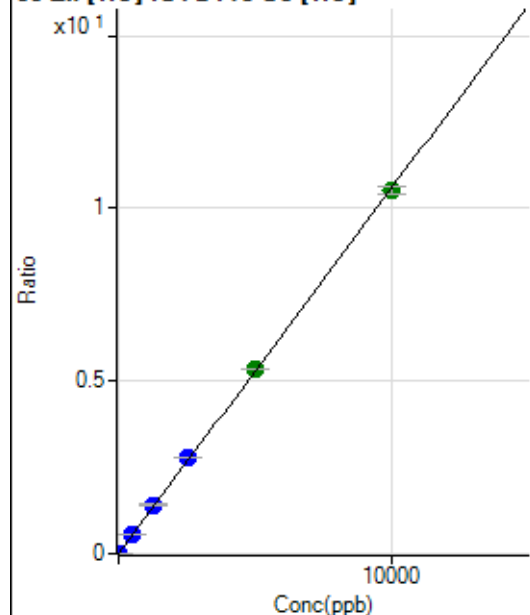
$$R = 0.9999$$

$$DL = 0.06511$$

$$BEC = 0.4387$$

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	184.45	0.0006	P	9.7
2	☐	2.000	2.422	991.15	0.0032	P	2.8
3	☐	500.000	530.247	172619.08	0.5616	P	1.2
4	☐	1250.000	1338.892	416299.88	1.4171	P	0.9
5	☐	2500.000	2621.428	800186.40	2.7740	P	0.2
6	☐	5000.000	5054.492	1538244.56	5.3481	A	0.8
7	☐	10000.000	9929.773	2968877.08	10.5061	A	2.1
8	☐			10587.16	0.0433	P	2.5

$$y = 0.0011 * x + 5.9787E-004$$

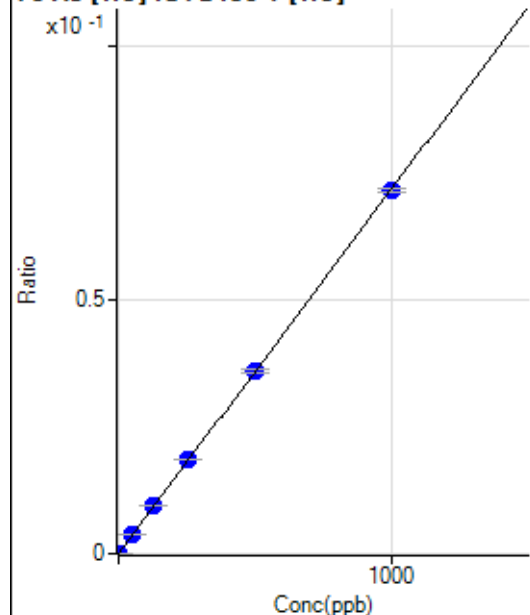
$$R = 0.9999$$

$$DL = 0.1637$$

$$BEC = 0.5651$$

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	0.00	0.0000	P	
2	☐	1.000	1.167	255.56	0.0001	P	13.1
3	☐	50.000	52.948	11382.22	0.0038	P	0.7
4	☐	125.000	130.135	26879.97	0.0093	P	0.3
5	☐	250.000	259.132	52987.46	0.0186	P	1.2
6	☐	500.000	503.201	103180.92	0.0361	P	2.2
7	☐	1000.000	995.327	201381.38	0.0714	P	0.9
8	☐			43.33	0.0000	P	19.8

$$y = 7.1740E-005 * x + 0.0000E+000$$

$$R = 0.9999$$

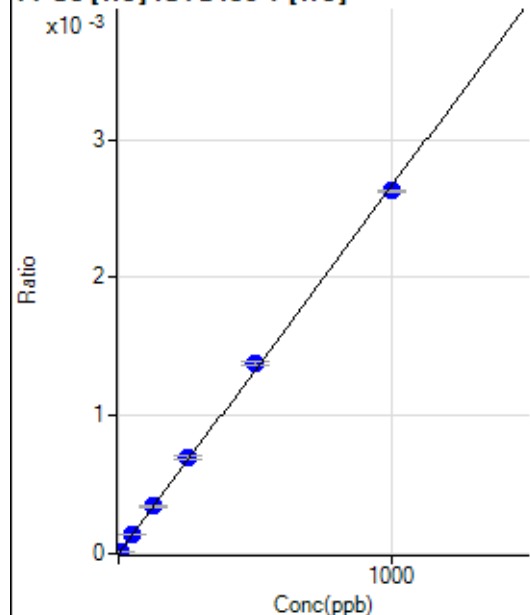
$$DL = 0$$

$$BEC = 0$$

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	4.789	38.89	0.0000	P	21.5
3	☐	50.000	52.278	416.68	0.0001	P	5.4
4	☐	125.000	130.072	995.60	0.0003	P	4.4
5	☐	250.000	261.847	1984.60	0.0007	P	3.3
6	☐	500.000	517.065	3931.67	0.0014	P	2.0
7	☐	1000.000	987.759	7408.58	0.0026	P	0.5
8	☐			5.56	0.0000	P	34.3

$$y = 2.6594\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

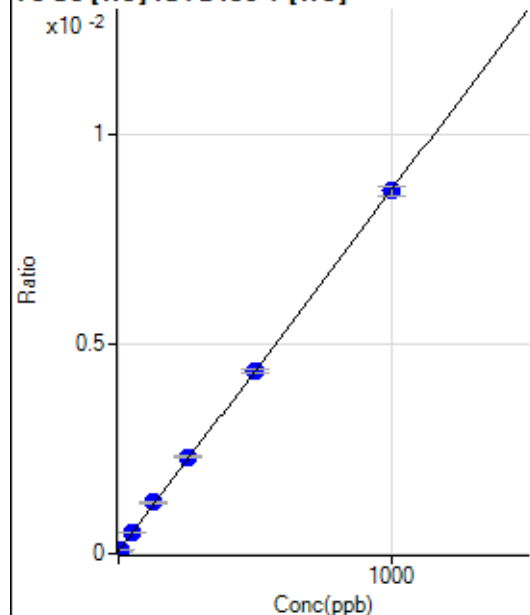
$$DL = 0$$

$$BEC = 0$$

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	188.89	0.0001	P	7.1
2	☐	5.000	4.376	304.45	0.0001	P	9.6
3	☐	50.000	51.398	1512.31	0.0005	P	5.0
4	☐	125.000	135.141	3531.57	0.0012	P	3.3
5	☐	250.000	260.630	6578.19	0.0023	P	1.5
6	☐	500.000	496.408	12400.83	0.0043	P	2.1
7	☐	1000.000	997.804	24417.99	0.0087	P	2.8
8	☐			161.12	0.0001	P	4.7

$$y = 8.6156\text{E-}006 * x + 6.2018\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.527$$

$$BEC = 7.198$$

Weight: <None>

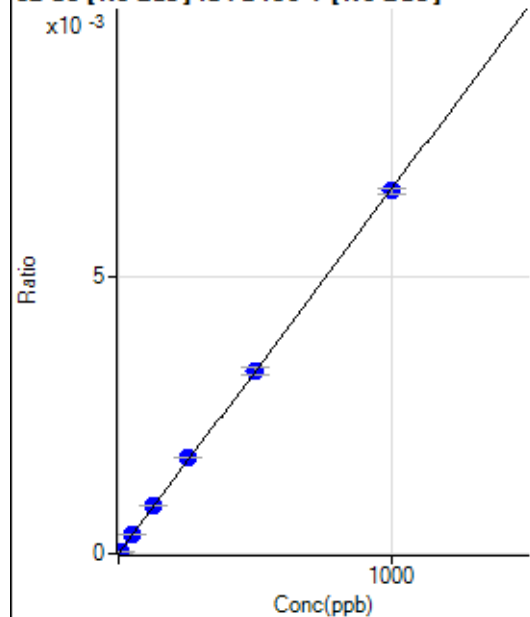
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36101.95		P	2.0
2	☐			36546.38		P	0.6
3	☐			35294.43		P	2.1
4	☐			34590.63		P	1.3
5	☐			33373.33		P	2.1
6	☐			31568.29		P	1.4
7	☐			32208.54		P	1.7
8	☐			30651.87		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75.55		P	20.8
2	☐			82.22		P	22.3
3	☐			36.67		P	24.0
4	☐			60.00		P	20.0
5	☐			46.67		P	14.3
6	☐			72.22		P	10.7
7	☐			64.44		P	40.2
8	☐			56.67		P	21.2

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.85	0.0000	P	81.9
2	☐	5.000	4.574	402.60	0.0000	P	2.9
3	☐	50.000	52.982	4232.77	0.0004	P	2.2
4	☐	125.000	132.857	10447.33	0.0009	P	0.3
5	☐	250.000	262.923	20105.17	0.0017	P	1.5
6	☐	500.000	501.196	38501.69	0.0033	P	3.3
7	☐	1000.000	995.042	75530.09	0.0066	P	1.5
8	☐			172.30	0.0000	P	2.0

$$y = 6.5915E-006 * x + 2.6101E-006$$

$$R = 0.9999$$

$$DL = 0.9724$$

$$BEC = 0.396$$

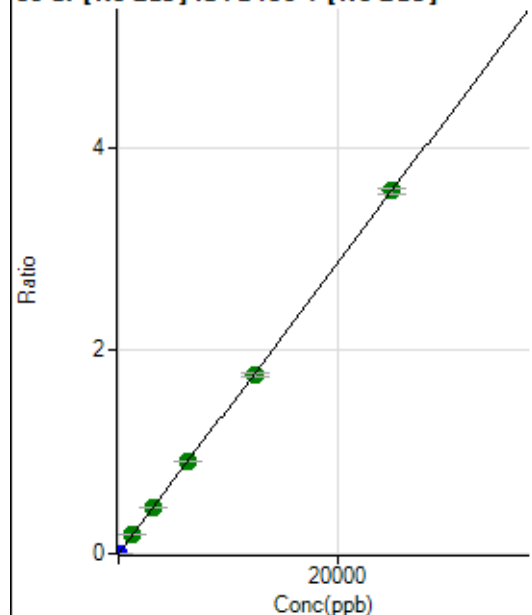
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			64.44		P	39.2
2	☐			78.89		P	20.8
3	☐			63.33		P	24.1
4	☐			58.89		P	8.6
5	☐			82.22		P	6.2
6	☐			83.33		P	24.3
7	☐			94.45		P	11.3
8	☐			132.23		P	8.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.67	0.0000	P	12.7
2	☐	1.000	0.956	1846.80	0.0002	P	4.2
3	☐	1250.000	1287.926	2213718.28	0.1840	A	1.1
4	☐	3125.000	3201.117	5439623.53	0.4573	A	0.7
5	☐	6250.000	6354.438	10516012.41	0.9078	A	0.8
6	☐	12500.000	12357.864	20561122.75	1.7655	A	2.5
7	☐	25000.000	25033.547	41167479.94	3.5763	A	1.5
8	☐			14264.96	0.0014	P	16.4

$$y = 1.4286E-004 * x + 1.3676E-005$$

$$R = 1.0000$$

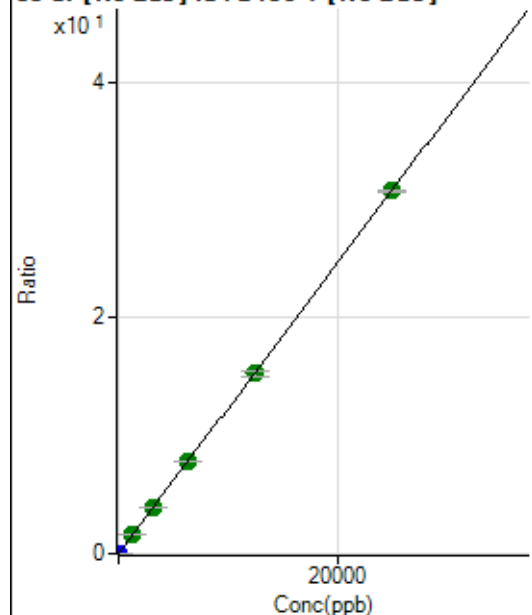
$$DL = 0.03639$$

$$BEC = 0.09573$$

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	148.89	0.0000	P	22.9
2	☐	1.000	0.975	14904.30	0.0012	P	1.4
3	☐	1250.000	1275.111	18889600.13	1.5701	A	1.0
4	☐	3125.000	3194.106	46781839.86	3.9330	A	0.5
5	☐	6250.000	6377.063	90960966.42	7.8523	A	1.1
6	☐	12500.000	12405.492	177903266.2	15.2754	A	2.5
7	☐	25000.000	25005.594	354454834.7	30.7903	A	0.7
8	☐			122531.36	0.0120	P	16.7

$$y = 0.0012 * x + 1.2222E-005$$

$$R = 1.0000$$

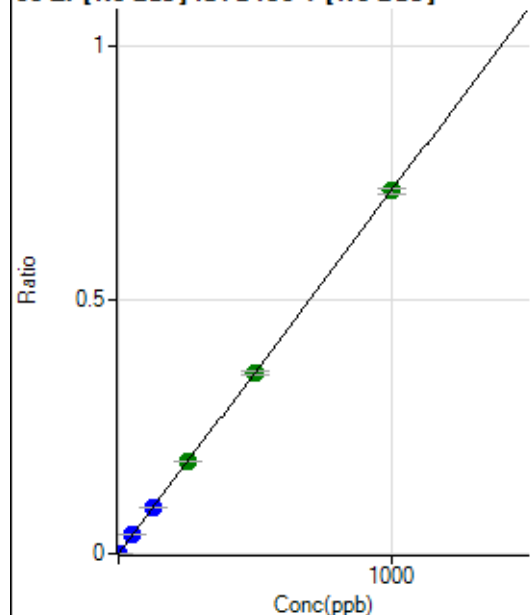
$$DL = 0.006833$$

$$BEC = 0.009925$$

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	346.67	0.0000	P	14.1
2	☐	1.000	0.927	8505.86	0.0007	P	2.0
3	☐	50.000	51.007	439752.00	0.0366	P	2.0
4	☐	125.000	127.756	1088481.25	0.0915	P	0.9
5	☐	250.000	254.608	2112323.48	0.1824	A	1.0
6	☐	500.000	498.380	4156592.65	0.3569	A	2.8
7	☐	1000.000	999.263	8237480.15	0.7156	A	1.5
8	☐			2682.50	0.0003	P	15.9

$$y = 7.1609\text{E-}004 * x + 2.8446\text{E-}005$$

$$R = 1.0000$$

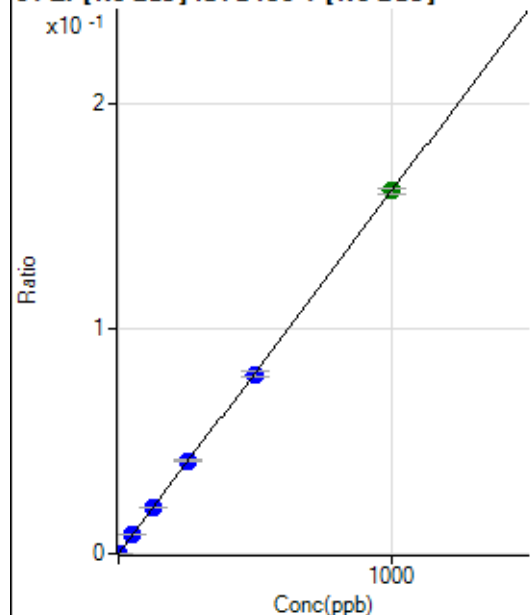
$$DL = 0.01676$$

$$BEC = 0.03972$$

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	47.78	0.0000	P	27.9
2	☐	1.000	0.918	1864.58	0.0002	P	3.5
3	☐	50.000	51.190	99199.01	0.0082	P	1.1
4	☐	125.000	128.148	245435.94	0.0206	P	1.4
5	☐	250.000	255.827	477148.70	0.0412	P	1.4
6	☐	500.000	494.601	927392.31	0.0796	P	3.0
7	☐	1000.000	1000.790	1854814.80	0.1611	A	1.7
8	☐			557.80	0.0001	P	19.0

$$y = 1.6100\text{E-}004 * x + 3.9160\text{E-}006$$

$$R = 1.0000$$

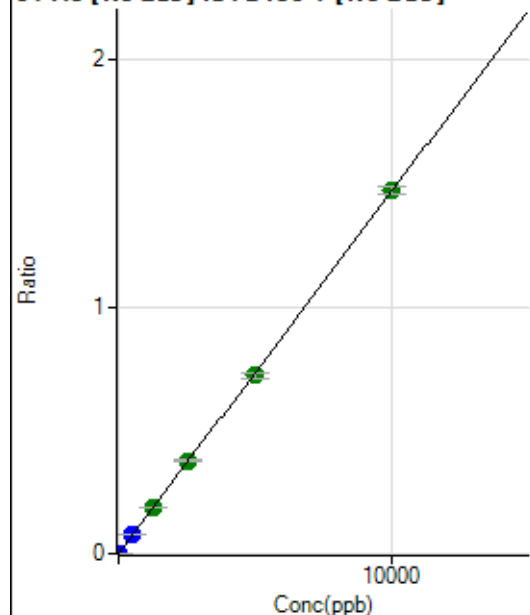
$$DL = 0.02038$$

$$BEC = 0.02432$$

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	122.23	0.0000	P	20.3
2	☐	5.000	5.594	10204.74	0.0008	P	3.8
3	☐	500.000	513.497	906080.80	0.0753	P	1.9
4	☐	1250.000	1272.356	2219502.52	0.1866	A	1.2
5	☐	2500.000	2551.996	4335344.17	0.3743	A	1.9
6	☐	5000.000	4930.565	8420528.42	0.7231	A	3.4
7	☐	10000.000	10018.249	16911990.17	1.4692	A	2.0
8	☐			5225.46	0.0005	P	21.0

$$y = 1.4665E-004 * x + 1.0023E-005$$

$$R = 0.9999$$

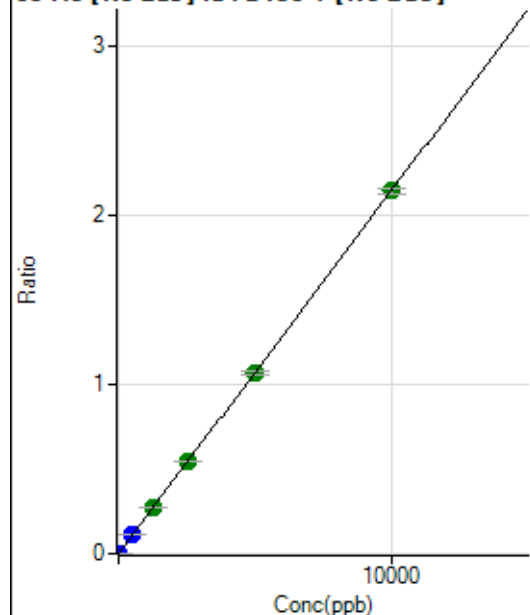
$$DL = 0.04154$$

$$BEC = 0.06834$$

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	68.89	0.0000	P	2.3
2	☐	5.000	4.795	12693.37	0.0010	P	0.5
3	☐	500.000	512.033	1319721.49	0.1097	P	1.0
4	☐	1250.000	1285.262	3274842.10	0.2753	A	1.0
5	☐	2500.000	2551.042	6330429.70	0.5465	A	0.7
6	☐	5000.000	4979.505	12422609.12	1.0667	A	2.9
7	☐	10000.000	9992.478	24640403.52	2.1406	A	1.7
8	☐			6610.51	0.0006	P	22.8

$$y = 2.1422E-004 * x + 5.6500E-006$$

$$R = 1.0000$$

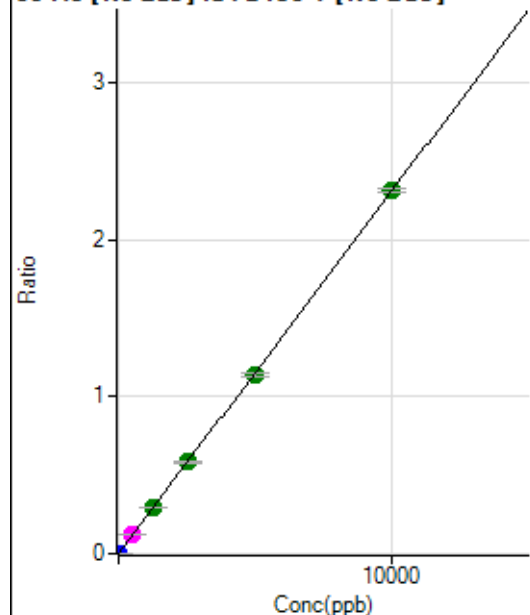
$$DL = 0.00185$$

$$BEC = 0.02637$$

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	72.22	0.0000	P	33.9
2	☐	5.000	4.871	13873.34	0.0011	P	4.0
3	☐	500.000	512.541	1421577.08	0.1182	M	1.4
4	☐	1250.000	1278.122	3504612.97	0.2947	A	1.1
5	☐	2500.000	2529.309	6754161.64	0.5831	A	1.6
6	☐	5000.000	4948.638	13286657.02	1.1408	A	2.3
7	☐	10000.000	10014.211	26575207.10	2.3086	A	1.2
8	☐			18425.12	0.0018	P	8.2

$$y = 2.3053\text{E-}004 * x + 5.9299\text{E-}006$$

$$R = 1.0000$$

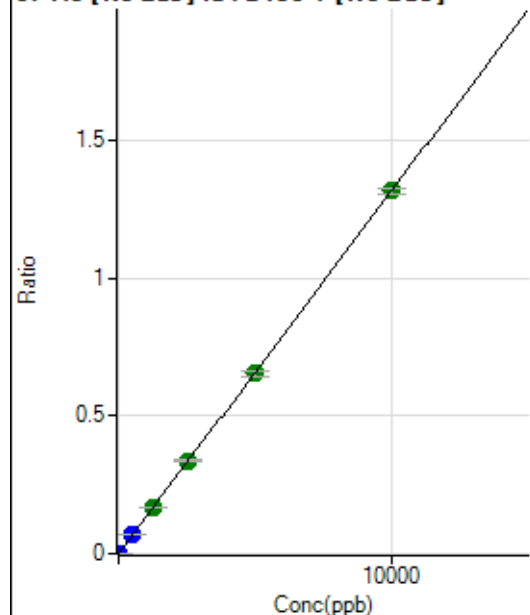
$$DL = 0.02616$$

$$BEC = 0.02572$$

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	23.34	0.0000	P	24.4
2	☐	5.000	4.865	7905.54	0.0006	P	0.9
3	☐	500.000	514.213	815665.18	0.0678	P	0.7
4	☐	1250.000	1278.829	2005502.94	0.1686	A	1.5
5	☐	2500.000	2554.635	3901466.02	0.3368	A	1.8
6	☐	5000.000	4962.789	7620003.98	0.6543	A	2.7
7	☐	10000.000	10000.633	15177467.41	1.3185	A	1.5
8	☐			4324.04	0.0004	P	22.0

$$y = 1.3184\text{E-}004 * x + 1.9126\text{E-}006$$

$$R = 1.0000$$

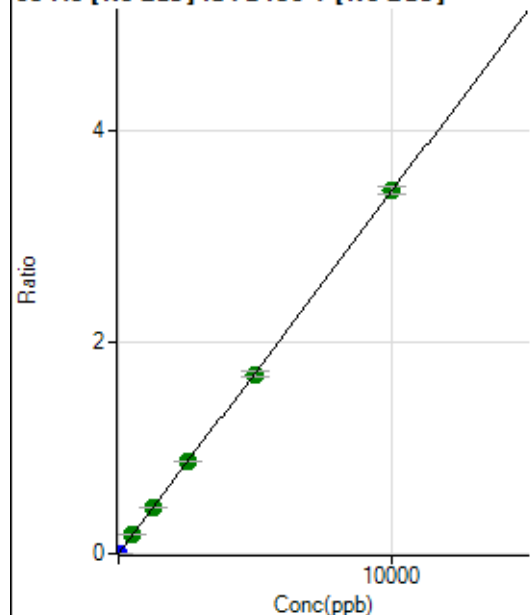
$$DL = 0.0106$$

$$BEC = 0.01451$$

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	28.89	0.0000	P	12.9
2	☐	5.000	4.802	20228.52	0.0016	P	1.3
3	☐	500.000	511.533	2106537.49	0.1751	A	1.7
4	☐	1250.000	1253.713	5104685.13	0.4292	A	0.1
5	☐	2500.000	2547.146	10100106.17	0.8719	A	0.8
6	☐	5000.000	4943.063	19704562.90	1.6920	A	3.1
7	☐	10000.000	10015.641	39463209.41	3.4284	A	2.1
8	☐			10272.79	0.0010	P	24.6

$$y = 3.4230\text{E-}004 * x + 2.3688\text{E-}006$$

$$R = 1.0000$$

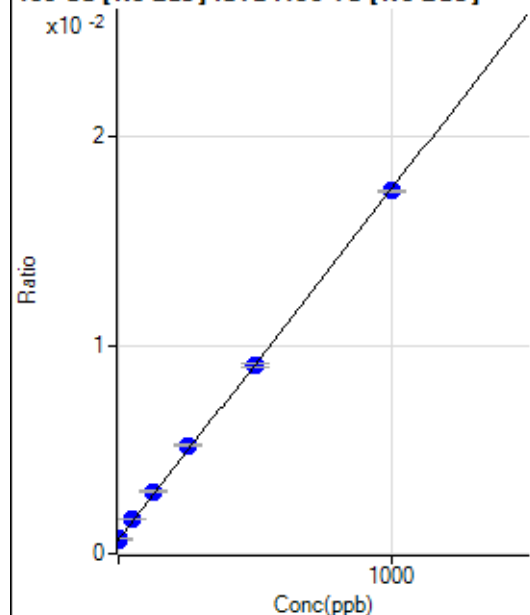
$$DL = 0.002677$$

$$BEC = 0.00692$$

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	5317.70	0.0007	P	1.3
2	☐	1.000	3.601	5874.57	0.0007	P	5.8
3	☐	50.000	57.104	12735.66	0.0016	P	1.0
4	☐	125.000	137.430	23473.48	0.0030	P	1.0
5	☐	250.000	269.179	40055.04	0.0052	P	1.7
6	☐	500.000	498.237	70938.70	0.0091	P	1.8
7	☐	1000.000	994.175	133798.20	0.0174	P	0.3
8	☐			4666.35	0.0007	P	3.1

$$y = 1.6831\text{E-}005 * x + 6.7100\text{E-}004$$

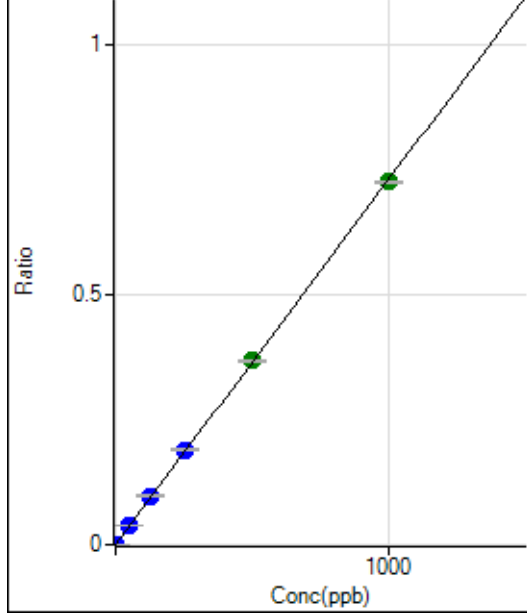
$$R = 0.9998$$

$$DL = 1.502$$

$$BEC = 39.87$$

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	66.67	0.0000	P	13.9
2	☐	1.000	1.058	6272.53	0.0008	P	4.6
3	☐	50.000	54.882	312754.18	0.0401	P	0.8
4	☐	125.000	133.596	767297.23	0.0976	P	1.9
5	☐	250.000	260.629	1465601.49	0.1903	P	0.3
6	☐	500.000	504.014	2882781.62	0.3680	A	1.5
7	☐	1000.000	994.017	5579783.87	0.7258	A	0.5
8	☐			2704.72	0.0004	P	11.9

$$y = 7.3016\text{E-}004 * x + 8.4170\text{E-}006$$

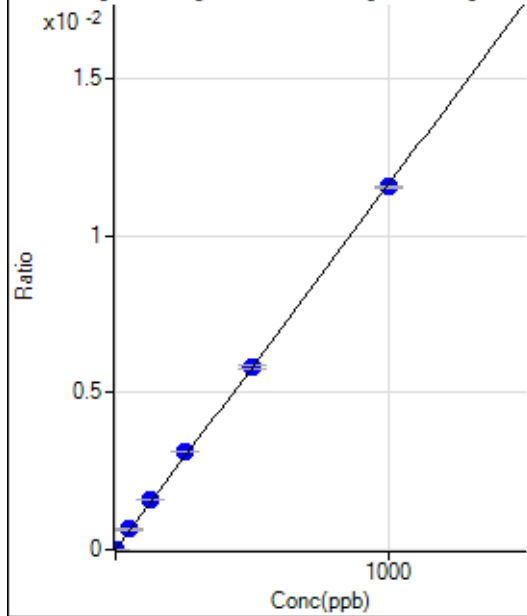
$$R = 0.9999$$

$$DL = 0.004804$$

$$BEC = 0.01153$$

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	5.56	0.0000	P	91.3
2	☐	1.000	0.986	97.78	0.0000	P	15.1
3	☐	50.000	55.273	5025.36	0.0006	P	2.1
4	☐	125.000	135.615	12423.18	0.0016	P	1.7
5	☐	250.000	269.765	24186.88	0.0031	P	0.7
6	☐	500.000	499.637	45555.70	0.0058	P	2.0
7	☐	1000.000	993.650	88922.37	0.0116	P	0.2
8	☐			77.78	0.0000	P	16.1

$$y = 1.1640\text{E-}005 * x + 6.9974\text{E-}007$$

$$R = 0.9998$$

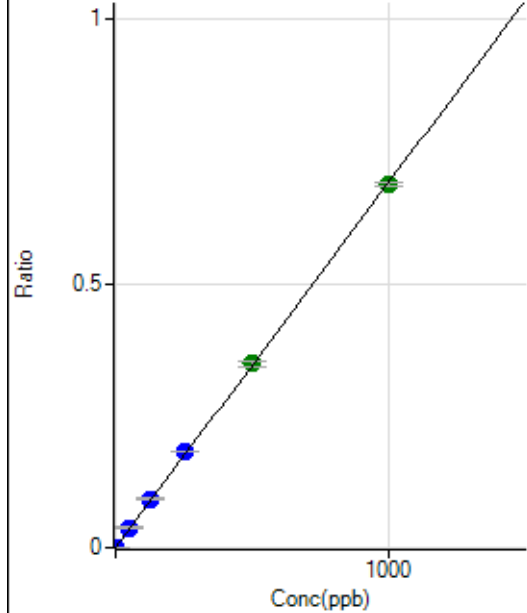
$$DL = 0.1647$$

$$BEC = 0.06012$$

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	17.78	0.0000	P	21.2
2	☐	1.000	1.042	5795.66	0.0007	P	4.0
3	☐	50.000	55.200	297412.26	0.0381	P	0.5
4	☐	125.000	133.458	724775.58	0.0921	P	1.9
5	☐	250.000	261.810	1392073.28	0.1808	P	0.2
6	☐	500.000	503.400	2722245.65	0.3476	A	2.3
7	☐	1000.000	994.030	5276391.10	0.6863	A	1.1
8	☐			2474.68	0.0004	P	11.9

$$y = 6.9044\text{E-}004 * x + 2.2413\text{E-}006$$

$$R = 0.9999$$

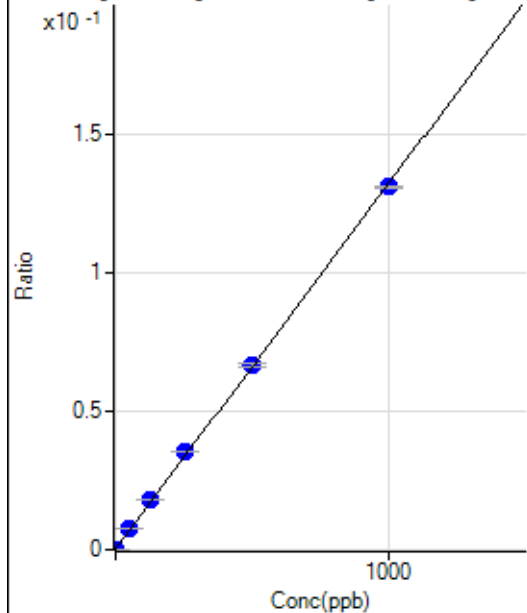
$$DL = 0.002064$$

$$BEC = 0.003246$$

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	1066.32	0.0001	P	1.3
2	☐	1.000	1.181	2333.20	0.0003	P	2.7
3	☐	50.000	55.311	58024.66	0.0074	P	0.5
4	☐	125.000	135.813	142073.71	0.0181	P	2.3
5	☐	250.000	268.916	274434.54	0.0356	P	0.5
6	☐	500.000	504.056	522188.28	0.0667	P	2.8
7	☐	1000.000	991.626	1007423.03	0.1310	P	0.6
8	☐			1297.72	0.0002	P	7.4

$$y = 1.3201\text{E-}004 * x + 1.3455\text{E-}004$$

$$R = 0.9998$$

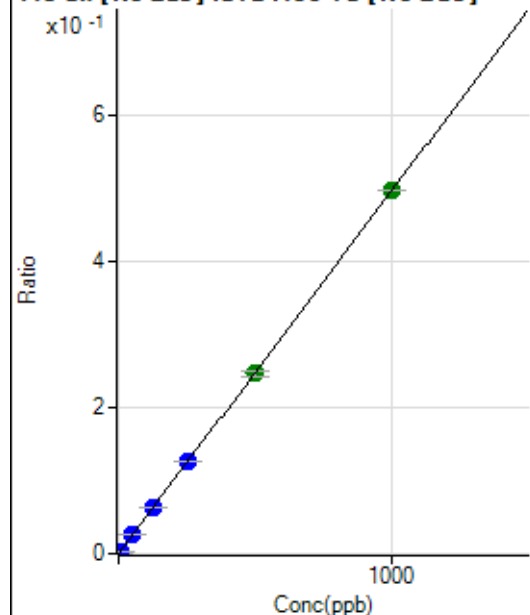
$$DL = 0.03924$$

$$BEC = 1.019$$

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	526.68	0.0001	P	8.6
2	☐	5.000	4.862	19871.60	0.0025	P	2.5
3	☐	50.000	51.602	199881.82	0.0256	P	0.6
4	☐	125.000	127.139	495635.62	0.0630	P	2.2
5	☐	250.000	254.011	969062.53	0.1258	P	0.4
6	☐	500.000	496.383	1925391.17	0.2458	A	2.7
7	☐	1000.000	1000.459	3808786.44	0.4954	A	0.2
8	☐			2526.91	0.0004	P	7.8

$$y = 4.9513\text{E-}004 * x + 6.6468\text{E-}005$$

$$R = 1.0000$$

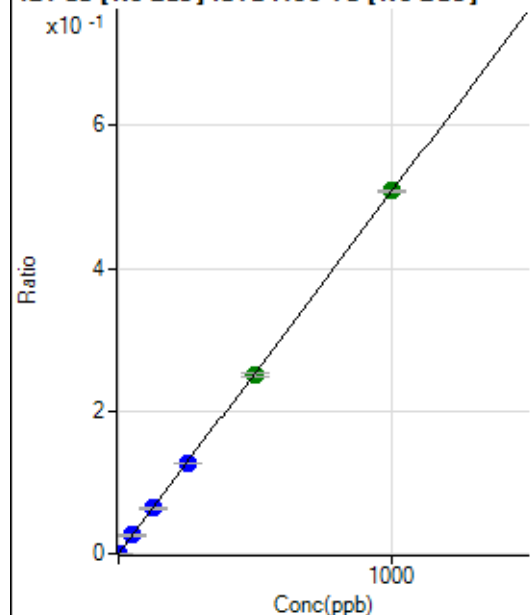
$$DL = 0.03474$$

$$BEC = 0.1342$$

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	12.22	0.0000	P	42.2
2	☐	2.000	1.978	8072.34	0.0010	P	1.3
3	☐	50.000	50.766	200919.99	0.0257	P	1.4
4	☐	125.000	125.643	501238.01	0.0637	P	1.7
5	☐	250.000	250.614	978899.99	0.1271	P	0.3
6	☐	500.000	494.558	1964676.71	0.2508	A	1.8
7	☐	1000.000	1002.449	3908801.40	0.5084	A	0.3
8	☐			2413.56	0.0003	P	5.4

$$y = 5.0719\text{E-}004 * x + 1.5455\text{E-}006$$

$$R = 1.0000$$

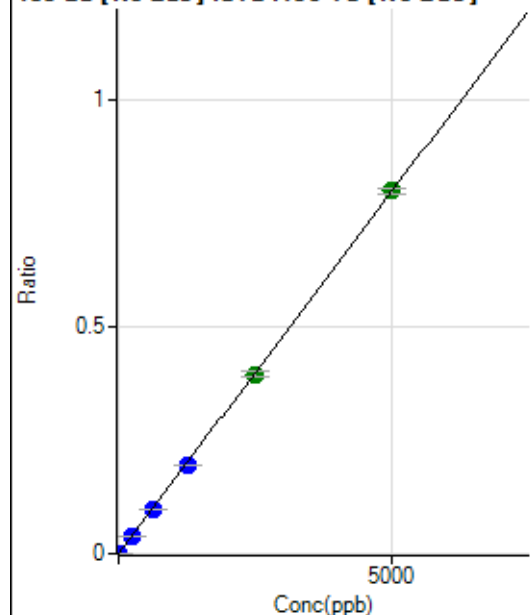
$$DL = 0.003857$$

$$BEC = 0.003047$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	57.0
2	☐	10.000	9.359	11966.23	0.0015	P	5.1
3	☐	250.000	248.087	307974.51	0.0395	P	1.1
4	☐	625.000	612.658	766654.88	0.0975	P	1.4
5	☐	1250.000	1222.914	1498242.74	0.1946	P	0.3
6	☐	2500.000	2485.222	3096382.63	0.3954	A	2.9
7	☐	5000.000	5015.800	6134364.08	0.7980	A	1.3
8	☐			3923.92	0.0006	P	8.1

$$y = 1.5909\text{E-}004 * x + 1.2590\text{E-}006$$

$$R = 1.0000$$

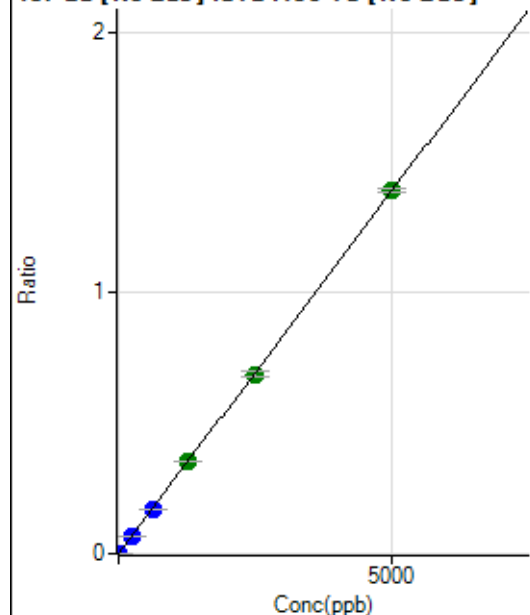
$$DL = 0.01353$$

$$BEC = 0.007914$$

Weight: <None>

Min Conc: 0

137 Ba [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	32.6
2	☐	10.000	9.299	20761.93	0.0026	P	3.2
3	☐	250.000	249.262	540396.61	0.0693	P	1.0
4	☐	625.000	613.690	1341081.87	0.1705	P	1.8
5	☐	1250.000	1279.640	2737739.99	0.3555	A	0.9
6	☐	2500.000	2474.577	5384362.25	0.6875	A	2.9
7	☐	5000.000	5006.753	10694090.81	1.3910	A	1.0
8	☐			6788.36	0.0010	P	7.9

$$y = 2.7783\text{E-}004 * x + 1.2598\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.004438$$

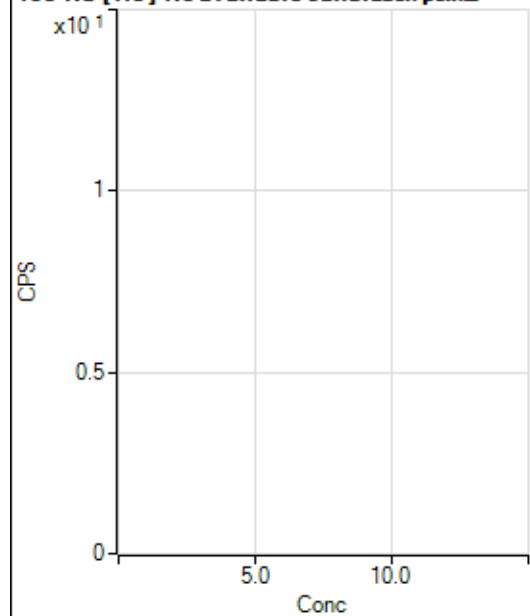
$$BEC = 0.004535$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			4.45		P	86.6
3	☐			84.45		P	29.9
4	☐			170.00		P	7.1
5	☐			305.56		P	9.8
6	☐			585.57		P	3.7
7	☐			1136.73		P	11.0
8	☐			40.00		P	36.3

150 Nd [He] No available calibration points

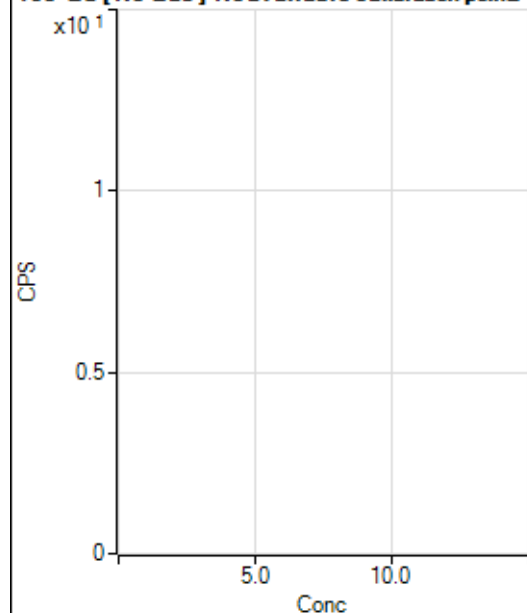
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			1.11		P	173.
3	☐			13.34		P	43.3
4	☐			23.34		P	24.7
5	☐			66.67		P	5.0
6	☐			118.89		P	8.6
7	☐			215.56		P	17.1
8	☐			16.67		P	40.0

156 Dy [No Gas] No available calibration points

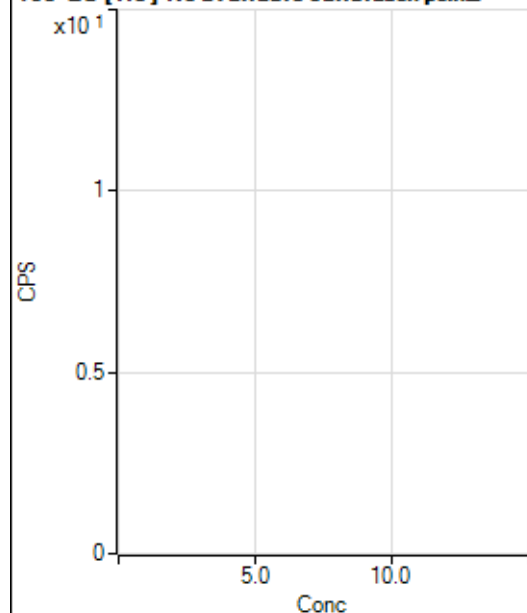
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			4.45		P	86.6
3	☐			35.55		P	57.3
4	☐			62.22		P	8.2
5	☐			114.44		P	19.4
6	☐			183.34		P	13.7
7	☐			375.56		P	11.0
8	☐			964.49		P	9.9

156 Dy [He] No available calibration points

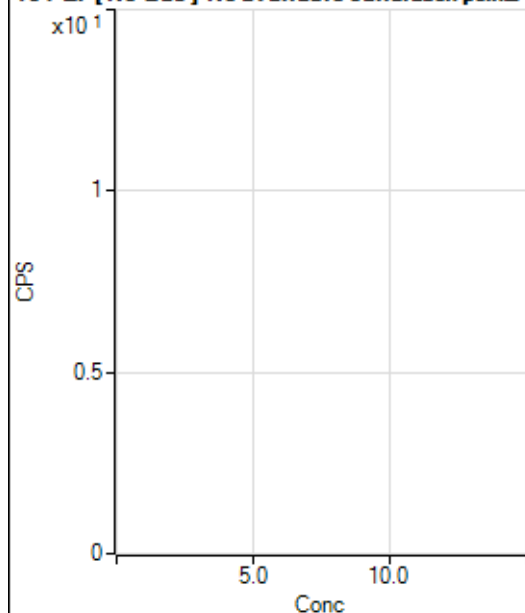
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			3.33		P	100.
3	☐			25.56		P	58.8
4	☐			47.78		P	22.4
5	☐			113.33		P	2.9
6	☐			192.23		P	7.8
7	☐			365.57		P	5.9
8	☐			607.80		P	6.5

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

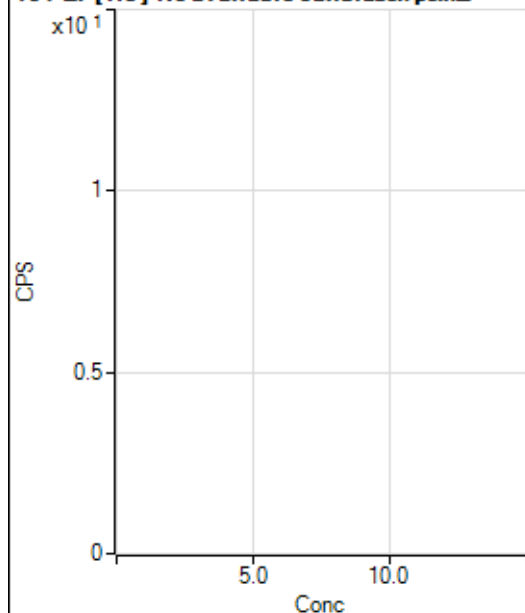
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	41.7
2	☐			53.33		P	16.5
3	☐			56.67		P	20.4
4	☐			82.22		P	14.2
5	☐			108.89		P	1.8
6	☐			164.45		P	10.4
7	☐			295.56		P	4.7
8	☐			1034.50		P	4.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			185.56		P	7.3
2	☐			213.34		P	4.1
3	☐			211.11		P	29.2
4	☐			212.23		P	14.2
5	☐			248.89		P	7.4
6	☐			284.45		P	12.3
7	☐			392.24		P	9.2
8	☐			818.92		P	5.6

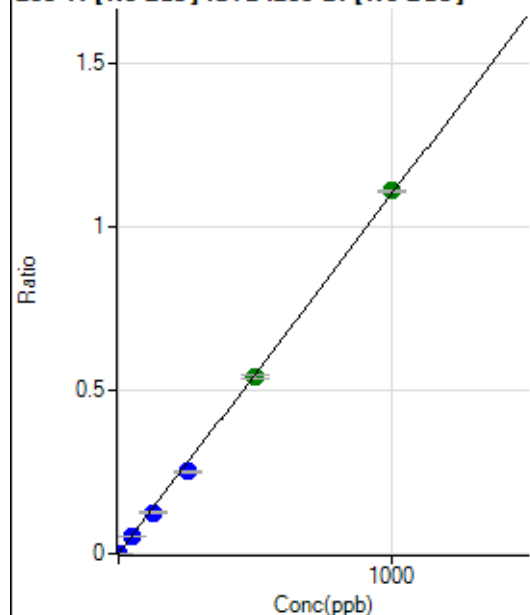
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	22.0
2	☐			63.33		P	22.9
3	☐			58.89		P	42.9
4	☐			66.67		P	10.0
5	☐			61.11		P	13.7
6	☐			80.00		P	11.0
7	☐			88.89		P	31.2
8	☐			85.56		P	6.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	15.8
2	☐			43.33		P	23.1
3	☐			27.78		P	6.9
4	☐			34.45		P	20.1
5	☐			47.78		P	35.8
6	☐			55.56		P	33.0
7	☐			56.67		P	5.9
8	☐			65.56		P	43.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	87.78	0.0000	P	12.5
2	☐	1.000	0.874	4885.36	0.0010	P	3.2
3	☐	50.000	45.799	244572.98	0.0503	P	1.2
4	☐	125.000	114.752	613659.93	0.1261	P	1.7
5	☐	250.000	228.062	1205601.78	0.2505	P	2.1
6	☐	500.000	493.798	2592788.00	0.5424	A	2.5
7	☐	1000.000	1010.077	5101232.32	1.1094	A	0.8
8	☐			1012.27	0.0003	P	28.1

$$y = 0.0011 * x + 1.7689E-005$$

$$R = 0.9997$$

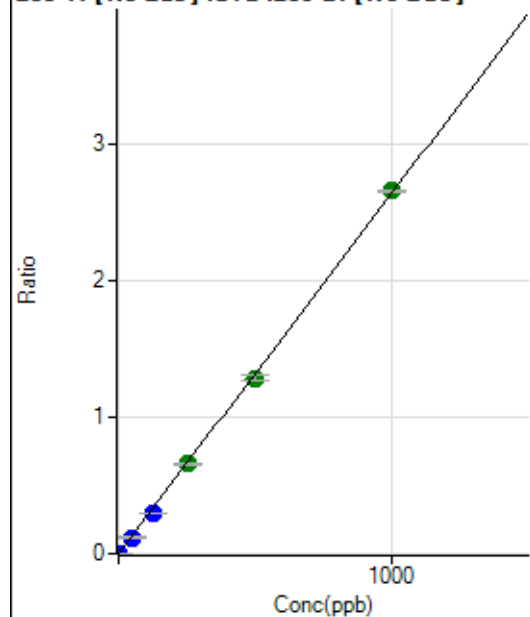
$$DL = 0.006028$$

$$BEC = 0.0161$$

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	232.23	0.0000	P	9.8
2	☐	1.000	0.859	11524.97	0.0023	P	1.5
3	☐	50.000	45.185	578104.33	0.1189	P	1.5
4	☐	125.000	113.696	1456687.20	0.2992	P	1.4
5	☐	250.000	249.349	3158142.00	0.6562	A	2.0
6	☐	500.000	488.367	6142329.56	1.2851	A	3.5
7	☐	1000.000	1007.633	12191555.93	2.6515	A	0.8
8	☐			2495.83	0.0007	P	30.8

$$y = 0.0026 * x + 4.6733E-005$$

$$R = 0.9999$$

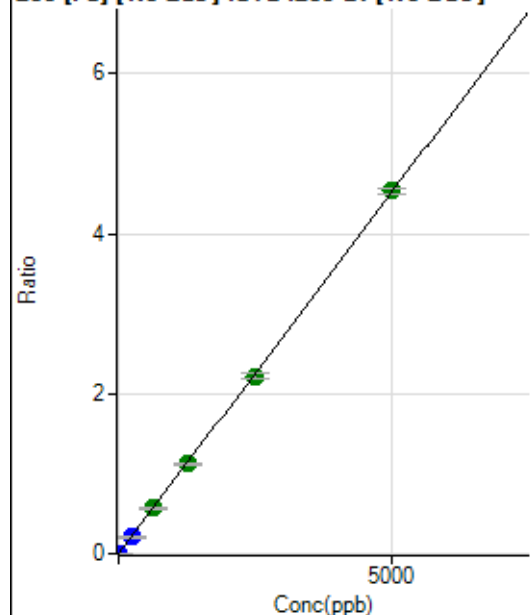
$$DL = 0.005248$$

$$BEC = 0.01776$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	263.34	0.0001	P	21.2
2	☐	1.000	0.846	4078.42	0.0008	P	1.0
3	☐	250.000	226.784	995013.46	0.2047	P	1.4
4	☐	625.000	627.754	2758019.54	0.5666	A	2.7
5	☐	1250.000	1242.514	5397237.04	1.1214	A	2.6
6	☐	2500.000	2455.122	10590952.69	2.2158	A	3.1
7	☐	5000.000	5025.127	20852548.44	4.5352	A	1.3
8	☐			5425.60	0.0014	P	19.8

$$y = 9.0249\text{E-}004 * x + 5.2961\text{E-}005$$

$$R = 0.9999$$

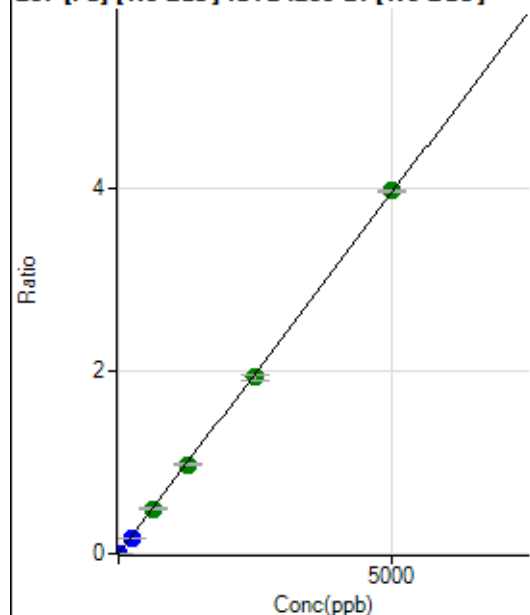
$$DL = 0.03735$$

$$BEC = 0.05868$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	185.56	0.0000	P	19.3
2	☐	1.000	0.865	3599.41	0.0007	P	1.7
3	☐	250.000	222.406	853938.15	0.1757	P	1.4
4	☐	625.000	623.546	2397678.61	0.4925	A	1.2
5	☐	1250.000	1238.946	4709511.25	0.9785	A	1.9
6	☐	2500.000	2445.965	9233271.60	1.9318	A	3.5
7	☐	5000.000	5031.343	18270795.14	3.9737	A	0.6
8	☐			4690.88	0.0013	P	17.3

$$y = 7.8979\text{E-}004 * x + 3.7347\text{E-}005$$

$$R = 0.9999$$

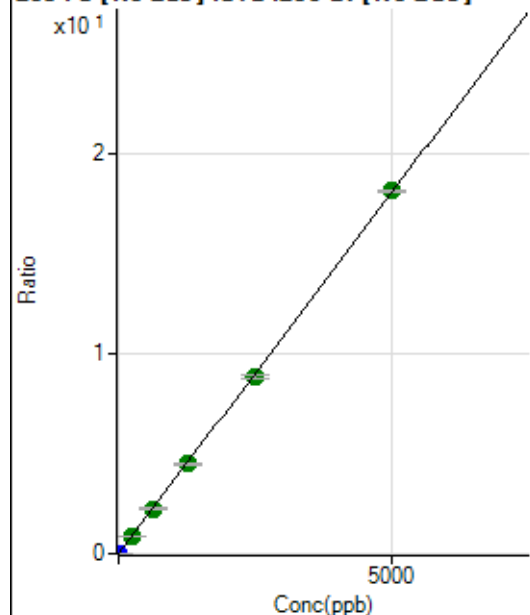
$$DL = 0.02745$$

$$BEC = 0.04729$$

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	917.80	0.0002	P	9.0
2	☐	1.000	0.868	16561.94	0.0033	P	1.2
3	☐	250.000	240.389	4214705.51	0.8672	A	0.3
4	☐	625.000	625.434	10981668.00	2.2558	A	1.7
5	☐	1250.000	1243.268	21581409.92	4.4841	A	1.4
6	☐	2500.000	2453.210	42291923.68	8.8478	A	2.8
7	☐	5000.000	5025.504	83336626.26	18.1249	A	0.5
8	☐			21581.57	0.0057	P	19.3

$$y = 0.0036 * x + 1.8474E-004$$

$$R = 0.9999$$

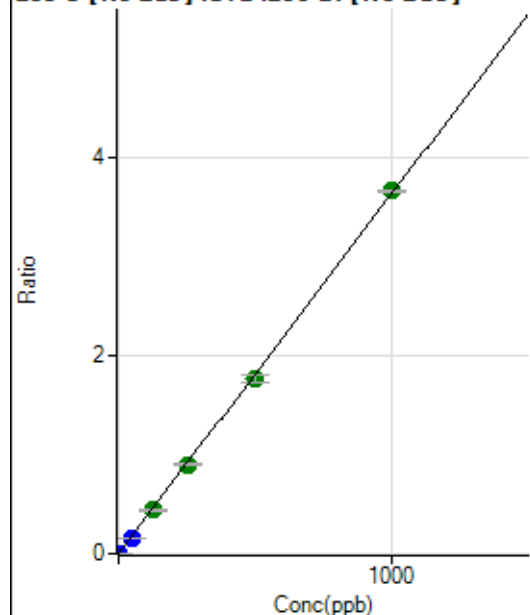
$$DL = 0.0139$$

$$BEC = 0.05122$$

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	4.44	0.0000	P	173.
2	☐	1.000	0.783	14222.27	0.0028	P	2.4
3	☐	50.000	41.409	731510.03	0.1505	P	2.0
4	☐	125.000	121.261	2145544.66	0.4407	A	2.1
5	☐	250.000	247.377	4327244.59	0.8991	A	1.8
6	☐	500.000	485.856	8439160.92	1.7659	A	4.5
7	☐	1000.000	1008.625	16855953.64	3.6659	A	0.7
8	☐			2388.04	0.0006	P	33.2

$$y = 0.0036 * x + 8.8739E-007$$

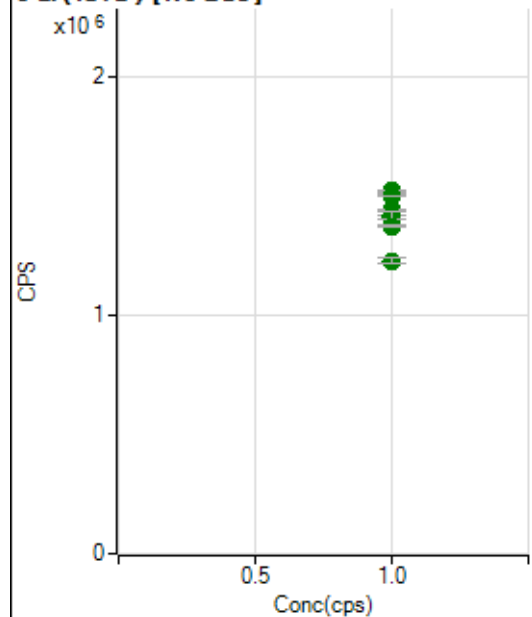
$$R = 0.9998$$

$$DL = 0.001269$$

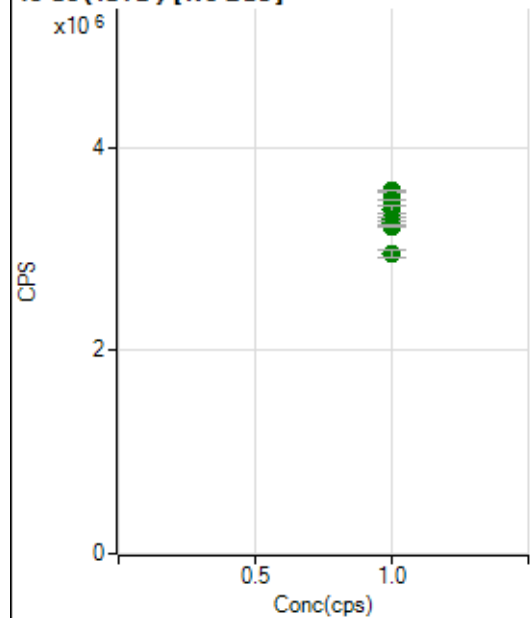
$$BEC = 0.0002442$$

Weight: <None>

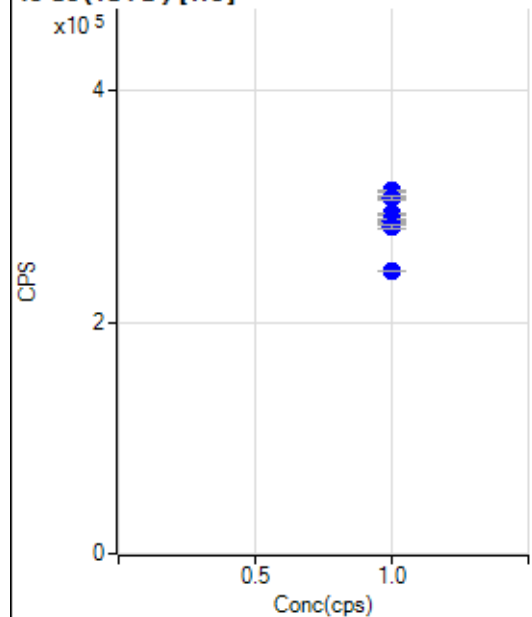
Min Conc: 0

6 Li (ISTD) [No Gas]

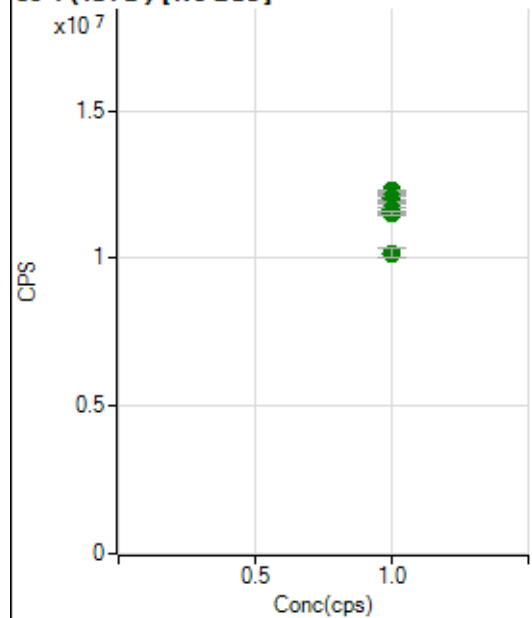
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1503345.58		A	0.9
2	☐	1.000		1520184.45		A	0.8
3	☐	1.000		1499393.97		A	0.4
4	☐	1.000		1438532.27		A	0.5
5	☐	1.000		1409905.24		A	1.0
6	☐	1.000		1417305.05		A	2.4
7	☐	1.000		1372239.46		A	0.9
8	☐	1.000		1227873.08		A	2.0

45 Sc (ISTD) [No Gas]

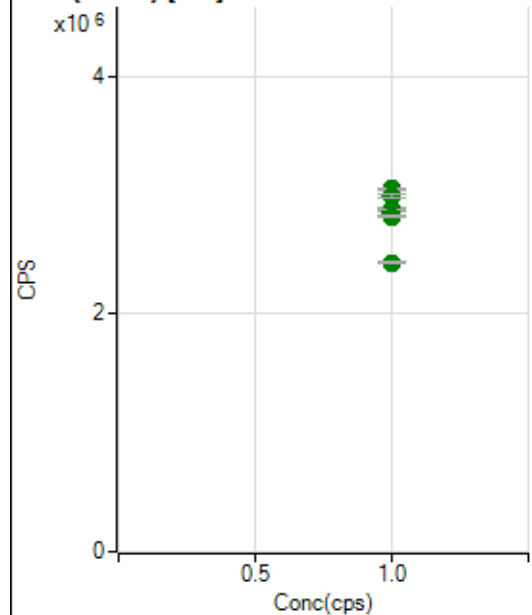
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3562157.90		A	0.2
2	☐	1.000		3572219.91		A	0.4
3	☐	1.000		3484805.26		A	0.5
4	☐	1.000		3388351.58		A	2.2
5	☐	1.000		3288212.21		A	1.1
6	☐	1.000		3254410.40		A	1.5
7	☐	1.000		3223691.72		A	0.8
8	☐	1.000		2959696.00		A	2.7

45 Sc (ISTD) [He]

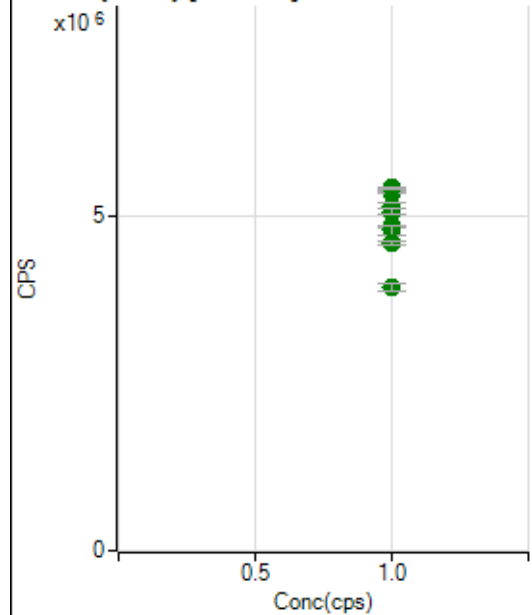
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		308583.15		P	0.5
2	☐	1.000		313602.78		P	0.2
3	☐	1.000		307392.69		P	0.6
4	☐	1.000		293779.27		P	0.8
5	☐	1.000		288456.42		P	0.6
6	☐	1.000		287621.77		P	0.7
7	☐	1.000		282624.38		P	1.2
8	☐	1.000		244683.58		P	0.3

89 Y (ISTD) [No Gas]

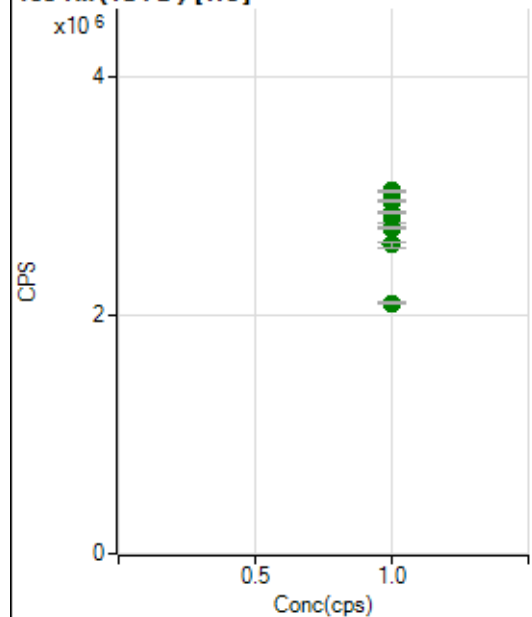
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12192108.01		A	0.5
2	☐	1.000		12289659.12		A	0.2
3	☐	1.000		12031609.40		A	1.1
4	☐	1.000		11894694.40		A	0.8
5	☐	1.000		11584027.05		A	0.5
6	☐	1.000		11649751.22		A	1.8
7	☐	1.000		11512434.41		A	1.1
8	☐	1.000		10181571.44		A	3.2

89 Y(ISTD) [He]

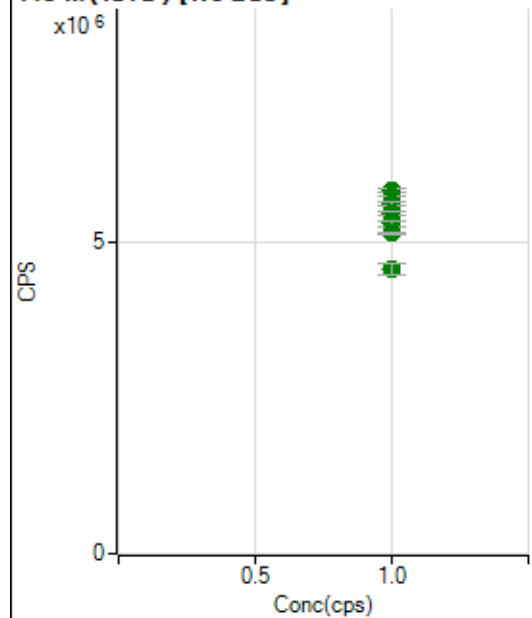
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3045686.27		A	0.3
2	☐	1.000		3053082.00		A	0.3
3	☐	1.000		2996399.95		A	0.9
4	☐	1.000		2879297.25		A	1.4
5	☐	1.000		2850518.81		A	1.0
6	☐	1.000		2858599.13		A	1.6
7	☐	1.000		2820365.48		A	0.6
8	☐	1.000		2428242.64		A	0.6

103 Rh(ISTD) [No Gas]

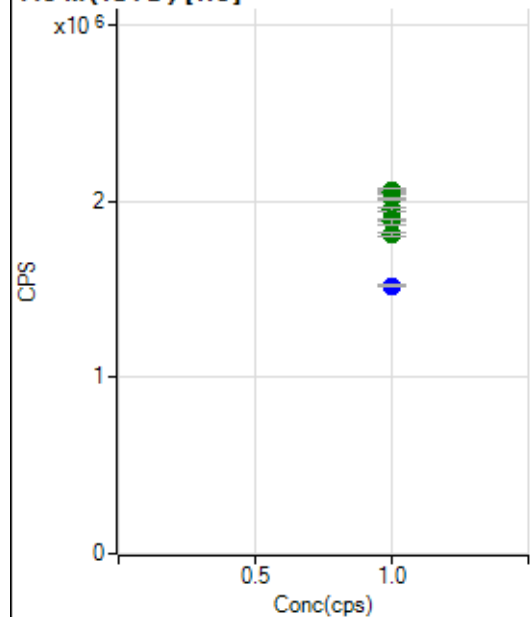
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5370846.10		A	0.7
2	☐	1.000		5434119.22		A	0.8
3	☐	1.000		5160007.81		A	1.6
4	☐	1.000		5081757.11		A	1.9
5	☐	1.000		4862251.63		A	0.7
6	☐	1.000		4803452.50		A	2.8
7	☐	1.000		4609849.31		A	1.1
8	☐	1.000		3940905.22		A	3.2

103 Rh (ISTD) [He]

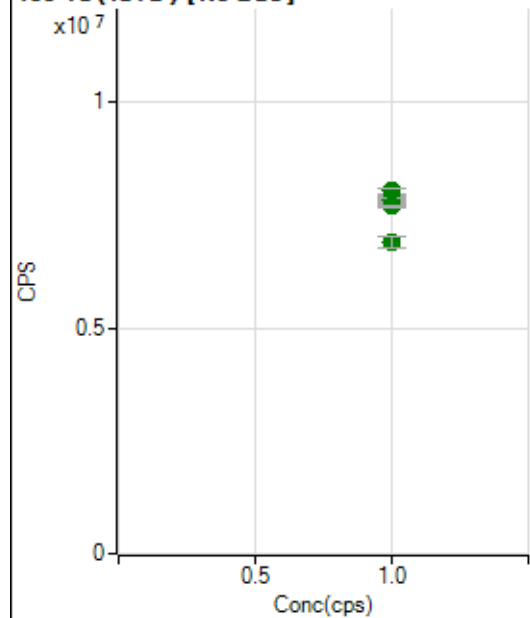
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3035448.71		A	0.9
2	☐	1.000		3040033.85		A	0.4
3	☐	1.000		2955782.74		A	0.1
4	☐	1.000		2855121.24		A	0.7
5	☐	1.000		2772279.58		A	0.4
6	☐	1.000		2728177.25		A	0.6
7	☐	1.000		2591028.01		A	1.8
8	☐	1.000		2095342.41		A	0.7

115 In (ISTD) [No Gas]

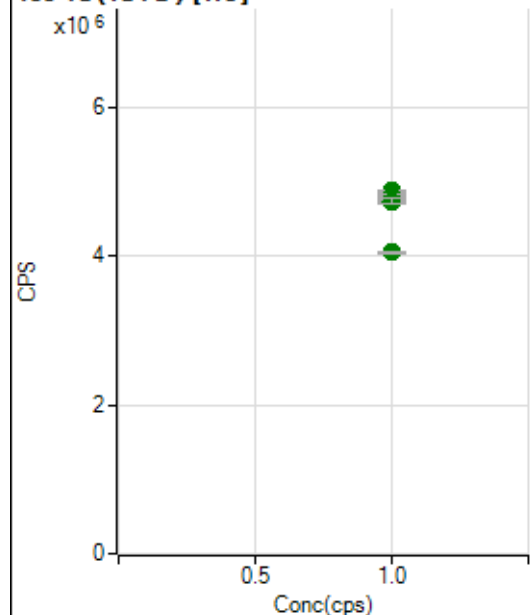
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5828426.66		A	1.0
2	☐	1.000		5750024.36		A	0.4
3	☐	1.000		5616109.31		A	1.0
4	☐	1.000		5473376.84		A	1.0
5	☐	1.000		5341603.00		A	0.1
6	☐	1.000		5298727.58		A	1.9
7	☐	1.000		5148137.82		A	0.5
8	☐	1.000		4559920.88		A	4.0

115 In (ISTD) [He]

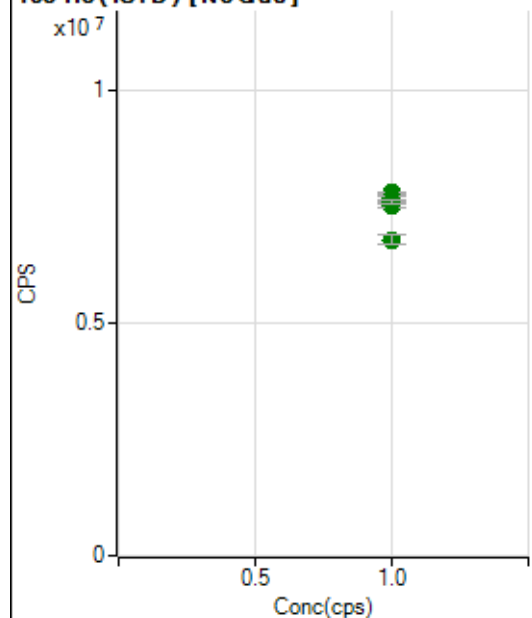
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2057405.78		A	0.8
2	☐	1.000		2053617.28		A	1.4
3	☐	1.000		2014388.20		A	0.4
4	☐	1.000		1951180.16		A	0.9
5	☐	1.000		1894119.27		A	0.3
6	☐	1.000		1882425.33		A	1.5
7	☐	1.000		1810681.50		A	1.7
8	☐	1.000		1520351.93		P	0.5

159 Tb (ISTD) [No Gas]

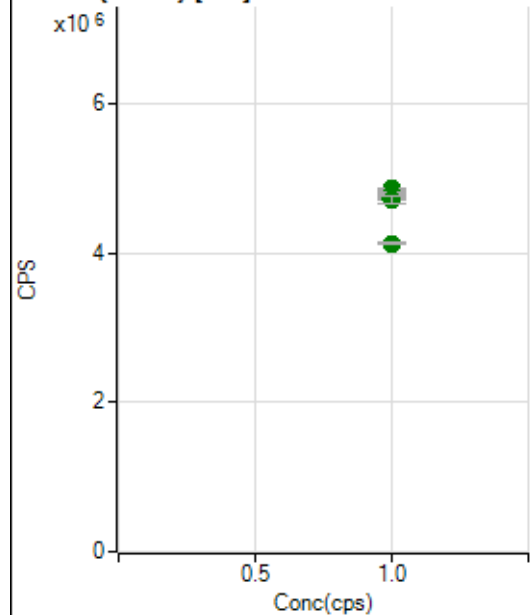
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7925233.43		A	0.7
2	☐	1.000		8035009.95		A	1.8
3	☐	1.000		7803045.09		A	0.7
4	☐	1.000		7866705.30		A	1.4
5	☐	1.000		7701035.93		A	1.1
6	☐	1.000		7833983.36		A	1.6
7	☐	1.000		7687973.36		A	0.7
8	☐	1.000		6898776.22		A	3.1

159 Tb (ISTD) [He]

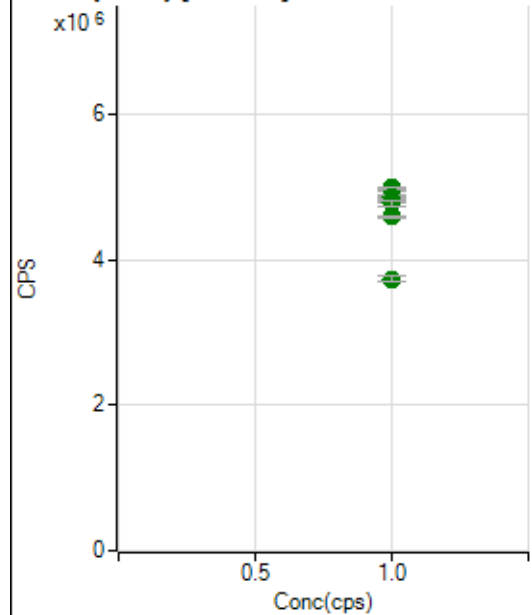
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4838432.22		A	0.3
2	☐	1.000		4876975.17		A	0.2
3	☐	1.000		4798656.35		A	1.1
4	☐	1.000		4768087.36		A	1.3
5	☐	1.000		4725206.94		A	0.6
6	☐	1.000		4791815.24		A	1.3
7	☐	1.000		4736041.29		A	1.4
8	☐	1.000		4047764.11		A	1.1

165 Ho (ISTD) [No Gas]

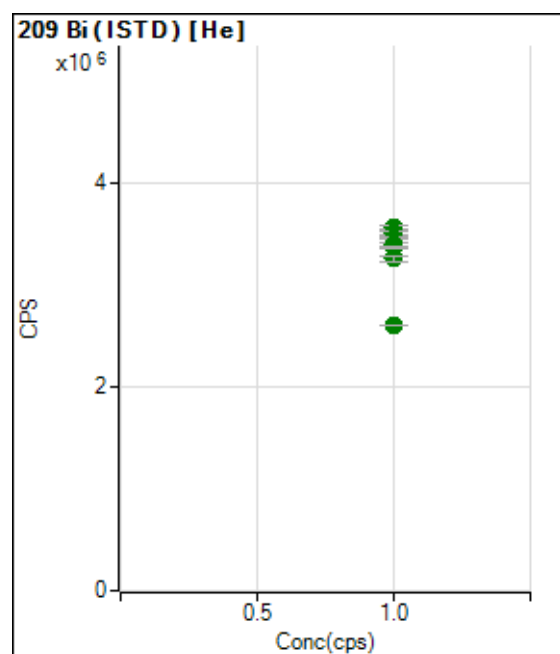
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7770110.51		A	0.3
2	☐	1.000		7799677.17		A	0.8
3	☐	1.000		7616462.67		A	1.3
4	☐	1.000		7670480.79		A	1.4
5	☐	1.000		7526682.32		A	0.6
6	☐	1.000		7669546.90		A	1.6
7	☐	1.000		7608596.00		A	0.9
8	☐	1.000		6799930.80		A	2.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4816120.73		A	1.2
2	☐	1.000		4828136.77		A	0.9
3	☐	1.000		4868715.55		A	0.5
4	☐	1.000		4755258.92		A	0.8
5	☐	1.000		4752564.68		A	1.3
6	☐	1.000		4809626.56		A	0.7
7	☐	1.000		4722858.19		A	2.0
8	☐	1.000		4138723.41		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4966152.39		A	1.0
2	☐	1.000		4994623.19		A	0.3
3	☐	1.000		4860351.21		A	0.8
4	☐	1.000		4868717.57		A	1.1
5	☐	1.000		4813371.56		A	1.3
6	☐	1.000		4781577.77		A	1.8
7	☐	1.000		4597960.38		A	0.4
8	☐	1.000		3743142.17		A	2.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3524574.60		A	0.5
2	☐	1.000		3552490.43		A	1.0
3	☐	1.000		3504969.71		A	1.1
4	☐	1.000		3452821.72		A	0.8
5	☐	1.000		3386882.42		A	1.5
6	☐	1.000		3366139.78		A	0.6
7	☐	1.000		3248447.87		A	1.8
8	☐	1.000		2594361.42		A	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7051023 MS.b
Acq. Date-Time 2023-05-10 11:26:04
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		6214	62139.88			0.397	5.000
24		69418	694184.51			0.544	5.000
25		9503	95034.23			0.410	5.000
26		10804	108035.26			0.801	5.000
59		50791	507914.46			0.917	5.000
113		6550	65495.85			0.685	5.000
115		82684	826837.98			0.807	5.000
206		19212	192117.27			1.230	5.000
207		17852	178522.77			1.211	5.000
208		41680	416799.23			1.225	5.000
220		0	1.40			105.342	

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

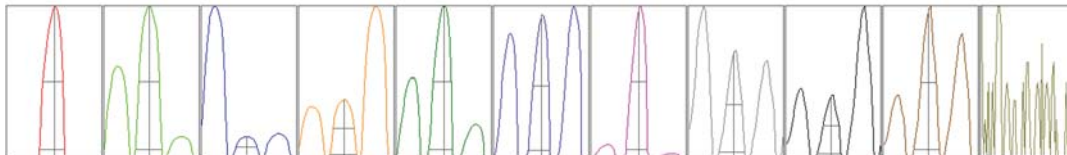
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6205	6210	6204	6194	6257
24	68889	69320	69357	69623	69903
25	9452	9478	9548	9532	9506
26	10704	10756	10782	10847	10928
59	50080	50718	50739	51173	51248
113	6484	6538	6553	6608	6565
115	81809	82934	82671	83615	82391
206	18852	19106	19300	19357	19444
207	17582	17670	17915	18041	18054
208	40919	41457	41779	42045	42200

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	10654.85	9.05	8.90 - 9.10	
24	112829.65	23.95	23.90 - 24.10	
25	15027.23	24.95	24.90 - 25.10	
26	17171.77	25.95	25.90 - 26.10	
59	94301.38	59.05	58.90 - 59.10	
113	13795.36	113.05	112.90 - 113.10	
115	174426.51	115.05	114.90 - 115.10	
206	39683.99	205.95	205.90 - 206.10	
207	36211.26	206.95	206.90 - 207.10	
208	87168.89	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.787	0.900	
24	0.65	0.830	0.900	
25	0.66	0.833	0.900	
26	0.67	0.833	0.900	
59	0.56	0.760	0.900	
113	0.49	0.689	0.900	
115	0.48	0.682	0.900	
206	0.49	0.809	0.900	
207	0.50	0.741	0.900	
208	0.48	0.808	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	8.7 V	Deflect	16.0 V
Extract 2	-95.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
---------	---------	---------	--------

EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		17362	173624.00			0.111	
89		26416	264162.99			0.223	
205		17813	178125.32			0.444	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	17348	17348	17374	17351	17391
89	26435	26456	26340	26371	26480
205	17829	17813	17693	17813	17915

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	8.6 V	Deflect	3.0 V
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US EPA Tune Check Report

Extract 2	-75.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-45 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	123	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
---------------	--------	-----------	--------	----------	--------