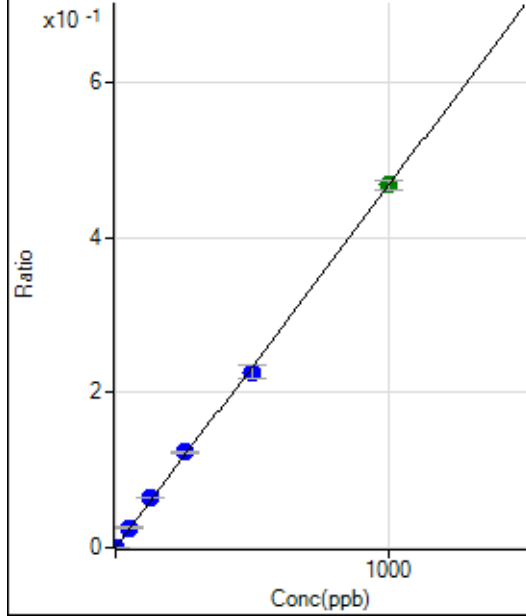


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8060223 MS.b\
Analysis File: P8060223 MS .batch.bin
DA Date-Time: 2023-06-16 11:34:19
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB P8060223 MS.D	S00	2023-06-02 13:20:46
2	005CALS P8060223 MS.D	S02	2023-06-02 13:23:50
3	006CALS P8060223 MS.D	S03	2023-06-02 13:26:57
4	007CALS P8060223 MS.D	S04	2023-06-02 13:29:58
5	008CALS P8060223 MS.D	S05	2023-06-02 13:33:00
6	009CALS P8060223 MS.D	S06	2023-06-02 13:36:00
7	012CALS P8060223 MS.D	S07	2023-06-02 13:59:57
8	013CALS P8060223 MS.D	S08	2023-06-02 14:02:55

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.42	0.0000	P	16.2
2	☐	1.000	1.098	1649.89	0.0005	P	3.1
3	☐	50.000	55.659	81962.99	0.0260	P	1.4
4	☐	125.000	138.447	197359.24	0.0646	P	2.5
5	☐	250.000	264.345	379509.97	0.1234	P	1.3
6	☐	500.000	485.595	718724.09	0.2267	P	7.8
7	☐	1000.000	1001.652	1484885.07	0.4676	A	2.8
8	☐			1059.49	0.0003	P	13.9

$$y = 4.6678\text{E-}004 * x + 8.1206\text{E-}006$$

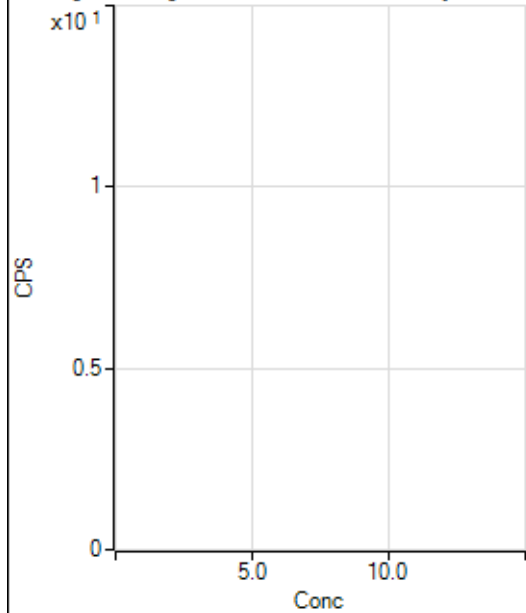
$$R = 0.9997$$

$$DL = 0.00846$$

$$BEC = 0.0174$$

Weight: <None>

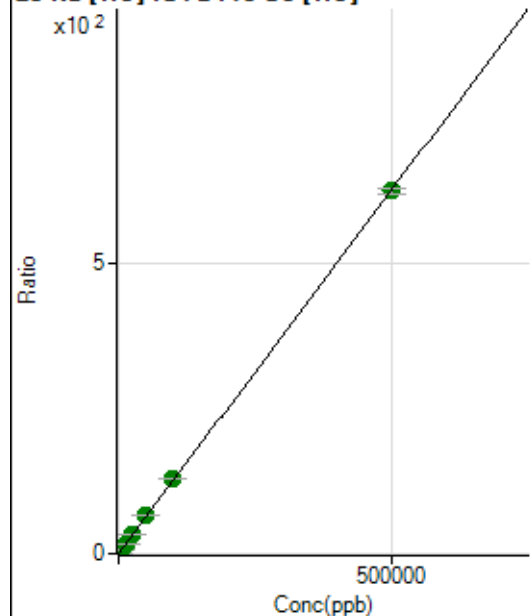
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2863938.52		A	0.7
2	☐			2873303.78		A	1.1
3	☐			3088203.28		A	0.8
4	☐			3196850.14		A	2.6
5	☐			3198140.76		A	2.0
6	☐			3366856.59		A	2.4
7	☐			3712921.30		A	3.6
8	☐			3504426.20		A	4.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			36353.93		P	0.6
2	☐			36362.14		P	0.9
3	☐			39425.69		P	1.7
4	☐			42595.66		P	1.6
5	☐			41748.73		P	0.9
6	☐			45214.58		P	3.6
7	☐			51836.43		P	1.2
8	☐			54911.57		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19694.28	0.1281	P	1.2
2	☐	500.000	486.111	114441.61	0.7383	P	1.8
3	☐	5000.000	5265.572	1089696.63	6.7373	A	5.3
4	☐	12500.000	13299.622	2575553.62	16.8213	A	1.5
5	☐	25000.000	25794.470	4888609.87	32.5044	A	2.6
6	☐	50000.000	52501.298	9448105.51	66.0257	A	2.8
7	☐	100000.00	103137.20	19375914.84	129.5820	A	2.2
8	☐	500000.00	499060.07	92380133.32	626.5291	A	1.7

$$y = 0.0013 * x + 0.1281$$

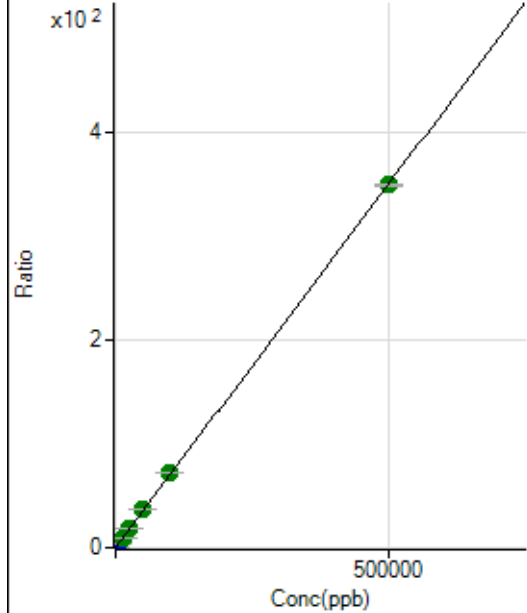
$$R = 1.0000$$

$$DL = 3.784$$

$$BEC = 102.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	450.02	0.0029	P	23.8
2	☐	500.000	498.784	54510.78	0.3517	P	2.7
3	☐	5000.000	5188.737	587024.17	3.6312	P	6.6
4	☐	12500.000	13552.398	1451445.20	9.4795	A	0.5
5	☐	25000.000	26591.525	2796858.46	18.5971	A	3.0
6	☐	50000.000	52880.913	5292167.00	36.9800	A	2.1
7	☐	100000.00	103078.03	10777666.22	72.0803	A	1.9
8	☐	500000.00	498988.53	51453834.14	348.9211	A	0.5

$$y = 6.9925\text{E-}004 * x + 0.0029$$

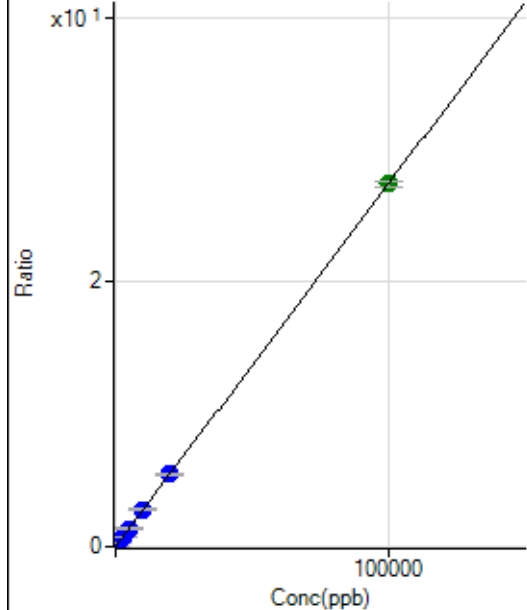
$$R = 1.0000$$

$$DL = 2.983$$

$$BEC = 4.184$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.82	0.0004	P	2.8
2	☐	20.000	19.887	901.59	0.0058	P	6.0
3	☐	1000.000	1018.798	45224.88	0.2798	P	7.0
4	☐	2500.000	2547.297	107032.78	0.6991	P	1.8
5	☐	5000.000	5022.418	207240.34	1.3780	P	2.6
6	☐	10000.000	10206.305	400647.89	2.7998	P	2.8
7	☐	20000.000	19992.562	820007.47	5.4841	P	1.7
8	☐	100000.00	99978.366	4043469.34	27.4233	A	1.6

$$y = 2.7429\text{E-}004 * x + 3.6317\text{E-}004$$

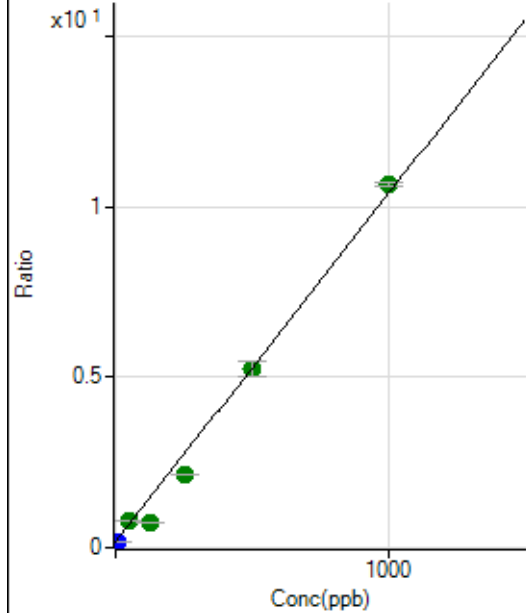
$$R = 1.0000$$

$$DL = 0.1093$$

$$BEC = 1.324$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	791092.41	0.1792	P	2.5
2	☐	10.000	0.490	813197.42	0.1842	P	1.5
3	☐	50.000	61.403	3573925.25	0.8060	A	1.4
4	☐	125.000	53.085	3111776.20	0.7211	A	3.6
5	☐	250.000	193.013	9402537.88	2.1495	A	1.0
6	☐	500.000	496.215	23986504.88	5.2446	A	8.0
7	☐	1000.000	1024.654	48317420.52	10.6389	A	1.2
8	☐			2391715.20	0.5607	A	11.3

$$y = 0.0102 * x + 0.1792$$

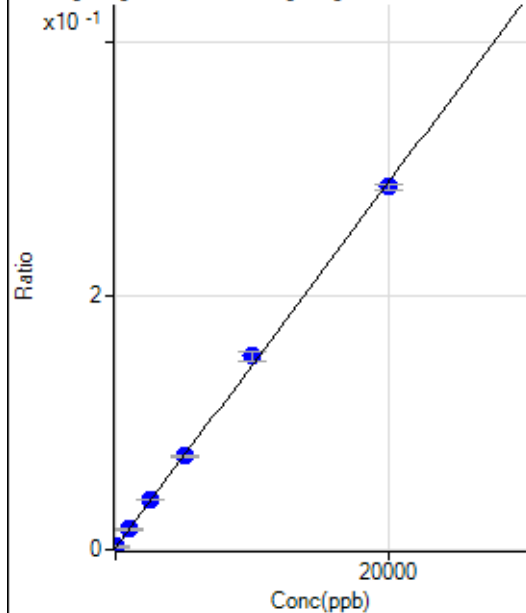
$$R = 0.9962$$

$$DL = 1.325$$

$$BEC = 17.55$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-26.945	236.12	0.0015	P	14.8
2	☐	0.000	26.945	358.35	0.0023	P	7.6
3	☐	1000.000	991.418	2611.42	0.0162	P	6.7
4	☐	2500.000	2632.052	6079.24	0.0397	P	1.2
5	☐	5000.000	5023.677	11135.10	0.0740	P	2.1
6	☐	10000.000	10462.905	21758.56	0.1521	P	5.8
7	☐	20000.000	19746.551	42671.62	0.2854	P	1.3
8	☐			272.23	0.0018	P	20.1

$$y = 1.4354E-005 * x + 0.0019$$

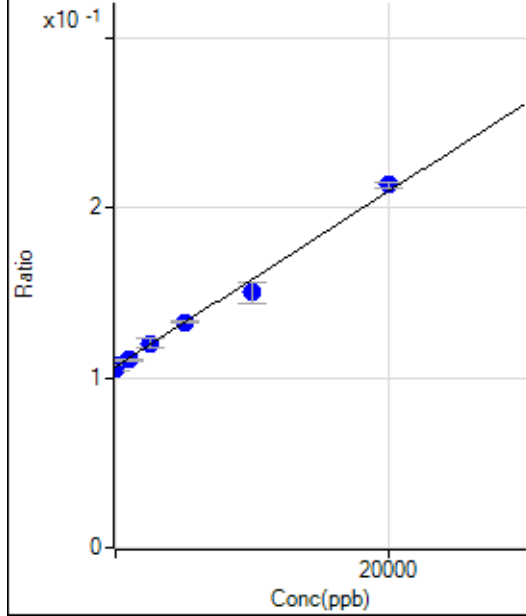
$$R = 0.9996$$

$$DL = 42.32$$

$$BEC = 134$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-179.852	465245.14	0.1054	P	1.9
2	☐	0.000	179.852	473451.31	0.1072	P	0.7
3	☐	1000.000	767.575	488940.32	0.1103	P	1.4
4	☐	2500.000	2711.921	518911.57	0.1203	P	4.9
5	☐	5000.000	5119.968	580562.03	0.1327	P	0.8
6	☐	10000.000	8472.611	685918.63	0.1500	P	8.5
7	☐	20000.000	20718.833	968283.17	0.2132	P	1.3
8	☐			419857.04	0.0986	P	0.8

$$y = 5.1592\text{E-}006 * x + 0.1063$$

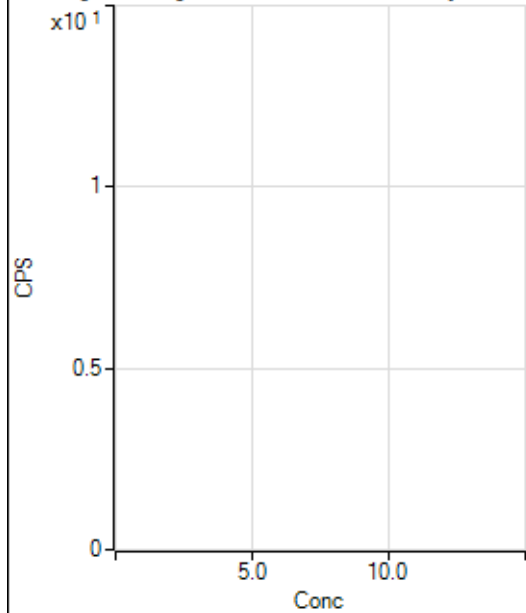
$$R = 0.9956$$

$$DL = 794.5$$

$$BEC = 2.06\text{E}+04$$

Weight: <None>

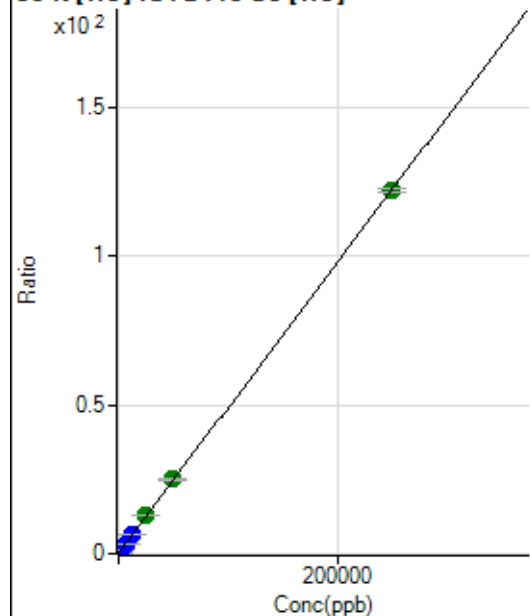
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			134851.16		P	1.8
2	☐			133113.51		P	0.5
3	☐			141800.26		P	0.6
4	☐			140146.42		P	0.7
5	☐			140097.89		P	1.5
6	☐			136735.98		P	1.2
7	☐			143850.86		P	0.5
8	☐			143170.06		P	1.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			716.70		P	8.8
2	☐			755.60		P	8.4
3	☐			911.17		P	11.4
4	☐			808.38		P	17.3
5	☐			905.61		P	6.1
6	☐			819.49		P	15.4
7	☐			877.83		P	7.7
8	☐			861.16		P	10.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	29555.89	0.1923	P	1.9
2	☐	500.000	487.262	66648.79	0.4300	P	2.6
3	☐	2500.000	2504.135	228541.76	1.4138	P	6.6
4	☐	6250.000	6495.091	514539.32	3.3605	P	1.3
5	☐	12500.000	12749.586	964278.23	6.4114	P	2.3
6	☐	25000.000	26305.937	1863989.75	13.0239	A	2.1
7	☐	50000.000	50801.755	3734038.84	24.9726	A	1.9
8	☐	250000.00	249690.43	17988499.36	121.9874	A	1.2

$$y = 4.8778\text{E-}004 * x + 0.1923$$

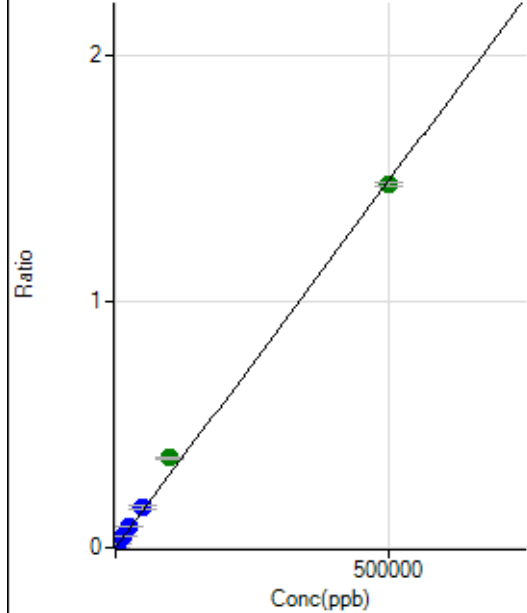
$$R = 1.0000$$

$$DL = 22.53$$

$$BEC = 394.3$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	132.48	0.0000	P	11.4
2	☐	500.000	513.080	6882.05	0.0016	P	0.5
3	☐	5000.000	6269.651	82964.74	0.0187	P	1.1
4	☐	12500.000	15446.916	198709.80	0.0461	P	3.9
5	☐	25000.000	29536.466	385075.97	0.0880	P	0.7
6	☐	50000.000	54249.089	739414.88	0.1617	P	7.9
7	☐	100000.00	122196.07	1653329.46	0.3641	A	3.7
8	☐	500000.00	494822.67	6276034.62	1.4743	A	0.9

$$y = 2.9794\text{E-}006 * x + 3.0018\text{E-}005$$

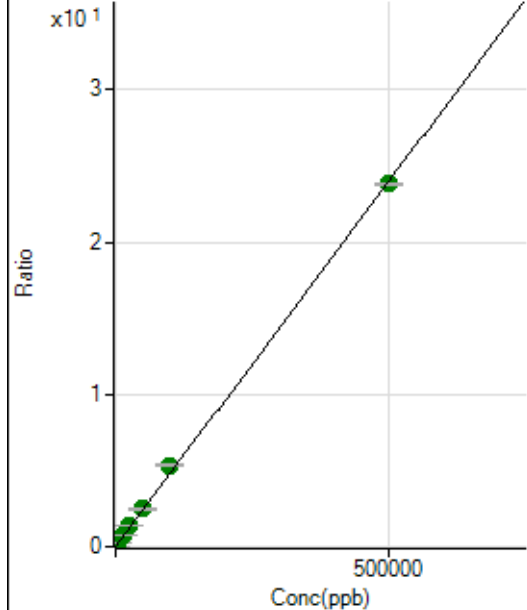
$$R = 0.9989$$

$$DL = 3.455$$

$$BEC = 10.08$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10246.97	0.0023	P	2.0
2	☐	500.000	518.377	119841.41	0.0271	P	0.4
3	☐	5000.000	5942.622	1272056.16	0.2869	A	1.9
4	☐	12500.000	14772.541	3062792.47	0.7097	A	3.4
5	☐	25000.000	28404.210	5959615.06	1.3624	A	1.1
6	☐	50000.000	51593.800	11310546.82	2.4728	A	7.8
7	☐	100000.00	111607.45	24278127.15	5.3464	A	3.0
8	☐	500000.00	497282.66	101383484.7	23.8138	A	0.5

$$y = 4.7883\text{E-}005 * x + 0.0023$$

$$R = 0.9997$$

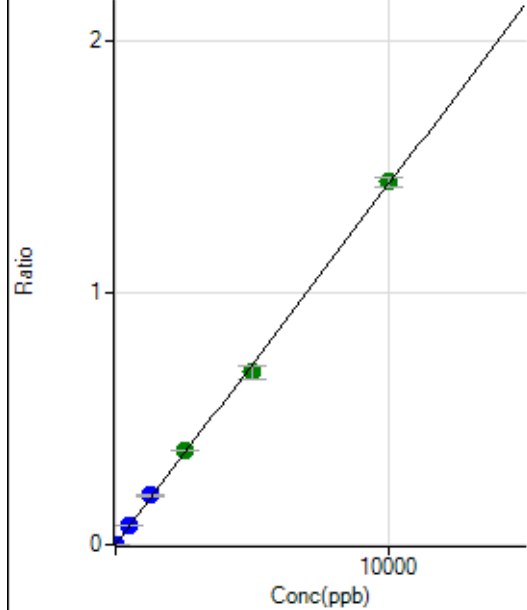
$$DL = 2.894$$

$$BEC = 48.47$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.45	0.0000	P	51.5
2	☐	5.000	5.258	3419.95	0.0008	P	2.2
3	☐	500.000	551.377	350355.17	0.0790	P	1.2
4	☐	1250.000	1370.381	847176.12	0.1963	P	3.9
5	☐	2500.000	2602.170	1630803.56	0.3728	A	0.3
6	☐	5000.000	4777.291	3129140.37	0.6844	A	8.6
7	☐	10000.000	10068.195	6549858.09	1.4423	A	2.6
8	☐			2197.45	0.0005	P	10.1

$$y = 1.4326\text{E-}004 * x + 2.1390\text{E-}005$$

$$R = 0.9995$$

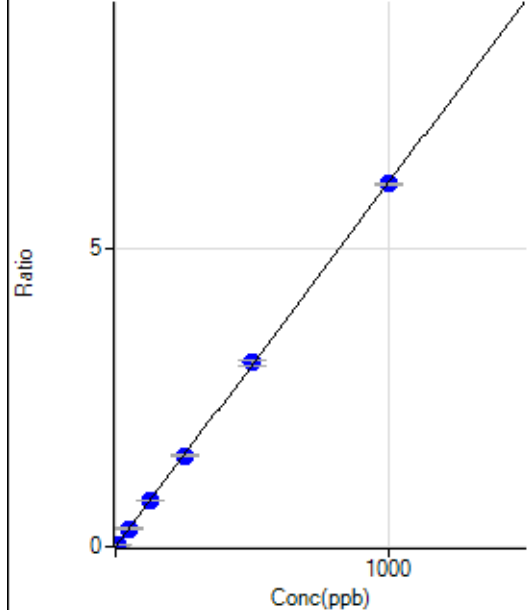
$$DL = 0.2307$$

$$BEC = 0.1493$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.67	0.0000	P	100.4
2	☐	5.000	4.989	4724.16	0.0305	P	1.2
3	☐	50.000	49.236	48544.22	0.3004	P	7.0
4	☐	125.000	127.482	119063.02	0.7776	P	0.6
5	☐	250.000	250.557	229867.60	1.5283	P	1.8
6	☐	500.000	505.027	440785.27	3.0803	P	2.9
7	☐	1000.000	997.075	909359.13	6.0815	P	0.5
8	☐			388.90	0.0026	P	10.2

$$y = 0.0061 * x + 4.3559\text{E-}005$$

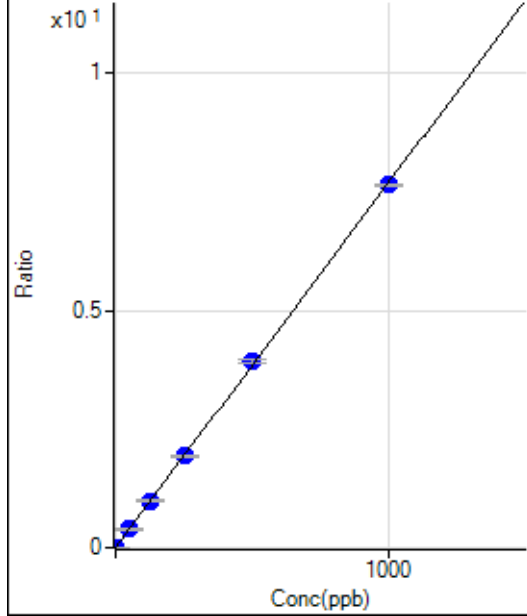
$$R = 1.0000$$

$$DL = 0.02151$$

$$BEC = 0.007142$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	455.57	0.0030	P	8.8
2	☐	2.000	2.039	2890.32	0.0186	P	5.4
3	☐	50.000	49.969	62584.01	0.3872	P	6.9
4	☐	125.000	128.320	151524.85	0.9897	P	2.4
5	☐	250.000	251.781	291650.02	1.9390	P	1.7
6	☐	500.000	509.782	561373.44	3.9229	P	2.5
7	☐	1000.000	994.250	1143652.36	7.6481	P	0.4
8	☐			9039.59	0.0613	P	1.5

$$y = 0.0077 * x + 0.0030$$

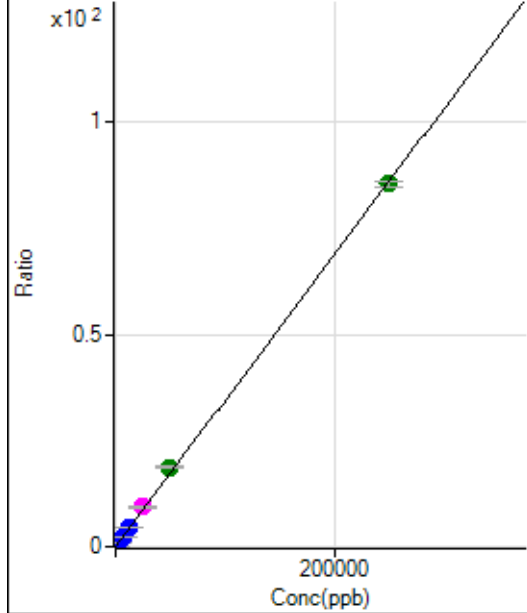
$$R = 0.9999$$

$$DL = 0.1014$$

$$BEC = 0.3856$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	546.32	0.0036	P	19.0
2	☐	50.000	51.269	3280.06	0.0212	P	1.4
3	☐	2500.000	2688.711	149719.62	0.9265	P	7.4
4	☐	6250.000	6890.231	362677.14	2.3687	P	1.3
5	☐	12500.000	13506.712	697933.68	4.6399	P	1.6
6	☐	25000.000	27149.622	1334216.12	9.3230	M	2.4
7	☐	50000.000	54499.398	2797774.08	18.7111	A	1.3
8	☐	250000.00	248816.92	12595022.97	85.4130	A	1.7

$$y = 3.4326E-004 * x + 0.0036$$

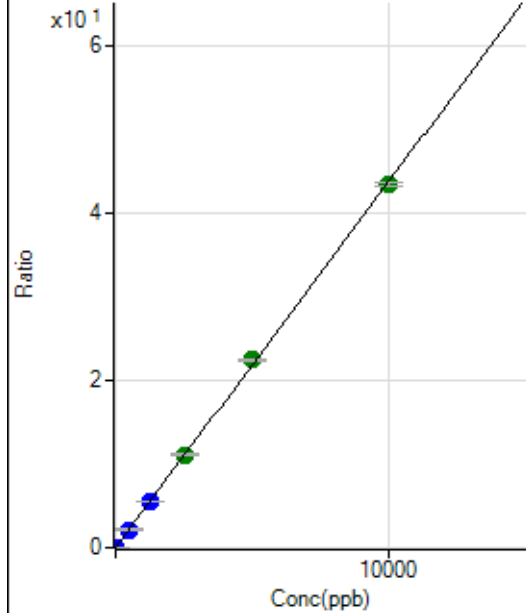
$$R = 0.9998$$

$$DL = 5.913$$

$$BEC = 10.36$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	40.00	0.0003	P	14.8
2	☐	1.000	0.964	693.36	0.0045	P	3.9
3	☐	500.000	488.140	344972.22	2.1343	P	6.9
4	☐	1250.000	1260.167	843600.86	5.5095	P	0.7
5	☐	2500.000	2534.872	1666857.01	11.0823	A	1.9
6	☐	5000.000	5140.552	3216606.24	22.4738	A	1.2
7	☐	10000.000	9920.328	6484937.61	43.3701	A	1.1
8	☐			4169.54	0.0283	P	3.8

$$y = 0.0044 * x + 2.6033E-004$$

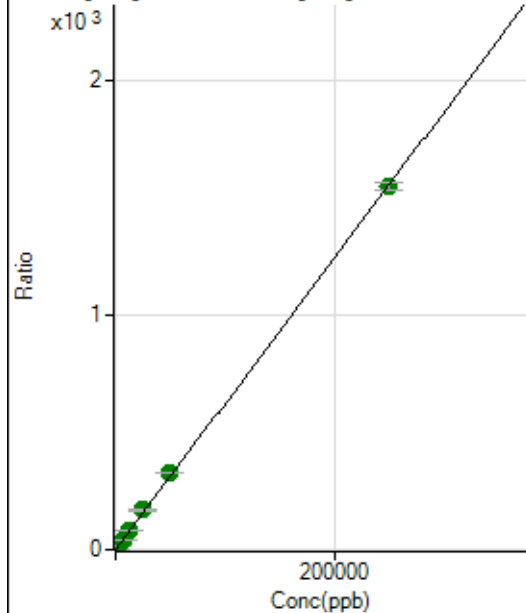
$$R = 0.9998$$

$$DL = 0.02639$$

$$BEC = 0.05955$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2198.36	0.0143	P	2.6
2	☐	50.000	52.074	52309.09	0.3374	P	0.8
3	☐	2500.000	2712.852	2723489.18	16.8487	A	6.7
4	☐	6250.000	6885.357	6544242.51	42.7408	A	0.7
5	☐	12500.000	13653.533	12747513.71	84.7402	A	0.7
6	☐	25000.000	27196.832	24155609.34	168.7820	A	2.1
7	☐	50000.000	52802.560	48999936.74	327.6763	A	1.1
8	☐	250000.00	249144.11	227944510.6	1,546.057	A	2.3

$$y = 0.0062 * x + 0.0143$$

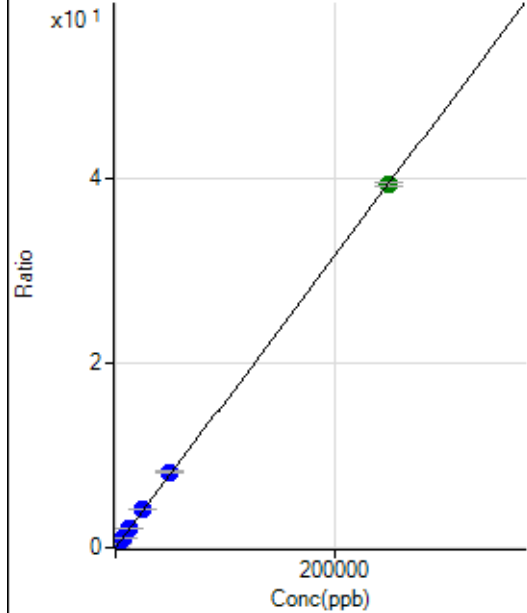
$$R = 0.9999$$

$$DL = 0.181$$

$$BEC = 2.305$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	101.85	0.0007	P	18.6
2	☐	50.000	51.260	1353.80	0.0087	P	8.5
3	☐	2500.000	2647.330	67515.08	0.4178	P	7.2
4	☐	6250.000	6792.107	163961.92	1.0708	P	0.7
5	☐	12500.000	13361.076	316746.37	2.1058	P	1.8
6	☐	25000.000	26628.093	600464.28	4.1961	P	2.6
7	☐	50000.000	52154.157	1228786.95	8.2179	P	1.0
8	☐	250000.00	249348.27	5793335.43	39.2872	A	0.9

$$y = 1.5756\text{E-}004 * x + 6.6222\text{E-}004$$

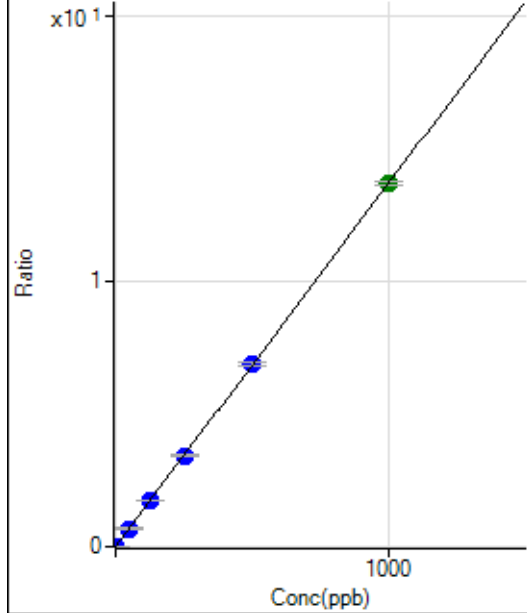
$$R = 0.9999$$

$$DL = 2.347$$

$$BEC = 4.203$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	64.44	0.0004	P	23.2
2	☐	1.000	1.009	2204.64	0.0142	P	3.1
3	☐	50.000	49.651	109910.31	0.6800	P	7.1
4	☐	125.000	127.196	266647.53	1.7415	P	0.4
5	☐	250.000	249.275	513272.35	3.4125	P	2.1
6	☐	500.000	502.512	984428.89	6.8788	P	2.0
7	☐	1000.000	998.668	2044145.16	13.6702	A	1.1
8	☐			1859.03	0.0126	P	2.1

$$y = 0.0137 * x + 4.1928\text{E-}004$$

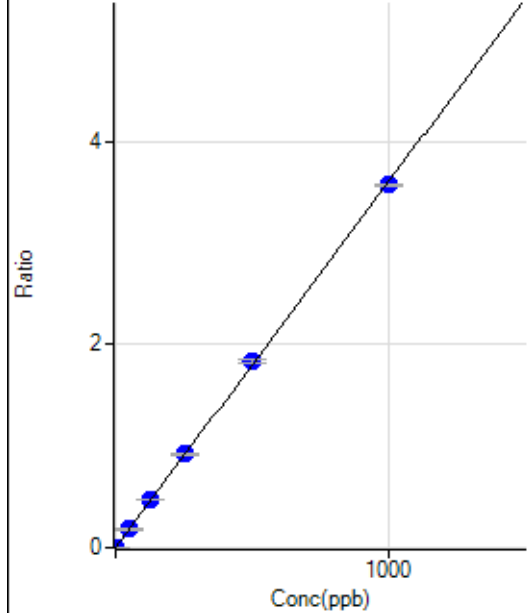
$$R = 1.0000$$

$$DL = 0.02131$$

$$BEC = 0.03063$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	88.89	0.0006	P	22.1
2	☐	1.000	1.071	687.80	0.0044	P	4.4
3	☐	50.000	51.224	29902.55	0.1850	P	6.7
4	☐	125.000	130.466	71999.94	0.4703	P	2.1
5	☐	250.000	256.874	139179.19	0.9253	P	1.8
6	☐	500.000	511.320	263522.86	1.8413	P	1.7
7	☐	1000.000	991.877	534010.95	3.5713	P	0.7
8	☐			1813.47	0.0123	P	4.0

$$y = 0.0036 * x + 5.7893E-004$$

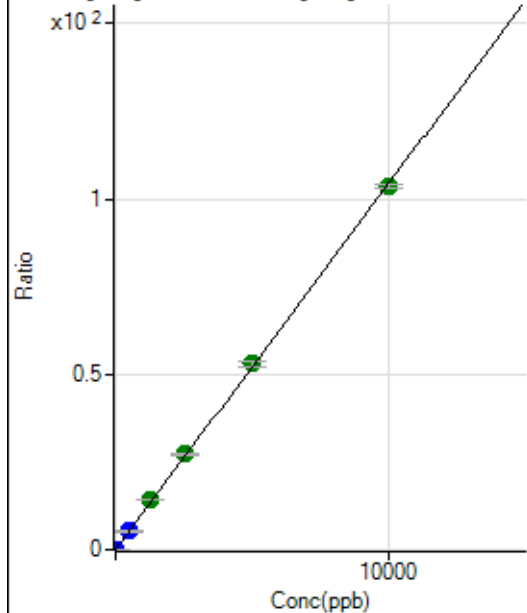
$$R = 0.9999$$

$$DL = 0.1065$$

$$BEC = 0.1608$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	472.23	0.0031	P	7.0
2	☐	2.000	2.068	3820.55	0.0246	P	1.3
3	☐	500.000	506.065	854119.01	5.2837	P	6.6
4	☐	1250.000	1346.051	2151058.53	14.0486	A	0.8
5	☐	2500.000	2613.758	4102349.35	27.2766	A	2.6
6	☐	5000.000	5088.182	7597851.07	53.0962	A	2.8
7	☐	10000.000	9915.160	15470259.35	103.4637	A	1.2
8	☐			4841.99	0.0328	P	3.9

$$y = 0.0104 * x + 0.0031$$

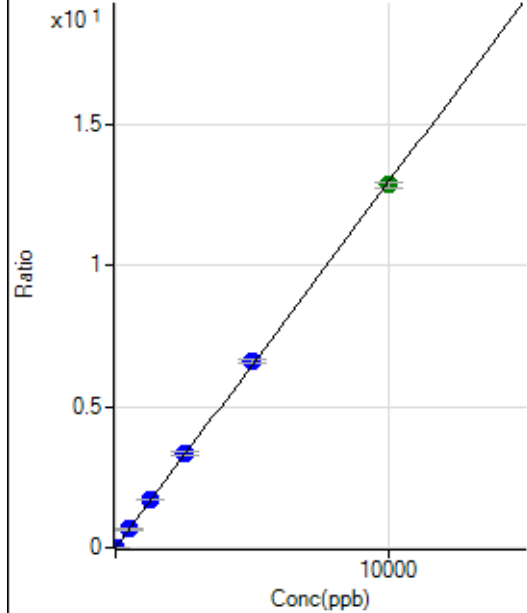
$$R = 0.9998$$

$$DL = 0.0621$$

$$BEC = 0.2945$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	71.11	0.0005	P	11.2
2	☐	2.000	2.523	577.80	0.0037	P	6.5
3	☐	500.000	507.214	106202.22	0.6571	P	7.2
4	☐	1250.000	1310.187	259789.76	1.6967	P	1.3
5	☐	2500.000	2581.301	502696.50	3.3424	P	2.4
6	☐	5000.000	5090.303	943248.19	6.5908	P	1.7
7	☐	10000.000	9926.639	1921873.11	12.8523	A	1.7
8	☐			11064.41	0.0750	P	1.5

$$y = 0.0013 * x + 4.6248E-004$$

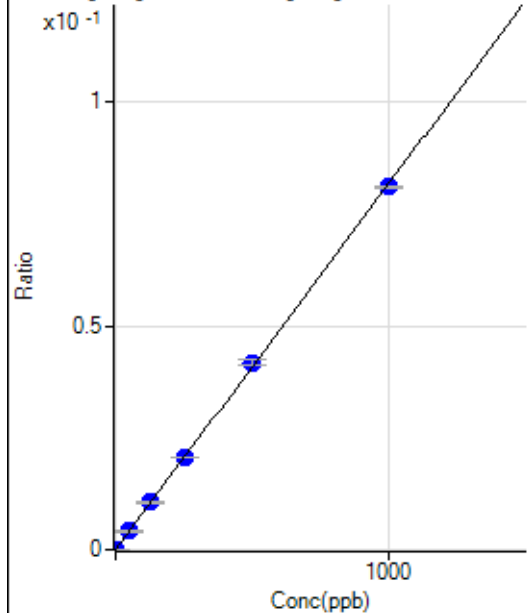
$$R = 0.9999$$

$$DL = 0.1205$$

$$BEC = 0.3572$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.33	0.0000	P	49.2
2	☐	1.000	1.094	120.34	0.0001	P	5.7
3	☐	50.000	50.310	5659.38	0.0041	P	8.3
4	☐	125.000	130.013	14108.79	0.0106	P	2.8
5	☐	250.000	254.001	27106.61	0.0208	P	0.6
6	☐	500.000	512.468	52010.99	0.0419	P	3.0
7	☐	1000.000	992.124	104608.86	0.0811	P	0.5
8	☐			33.67	0.0000	P	21.9

$$y = 8.1720E-005 * x + 1.7676E-006$$

$$R = 0.9999$$

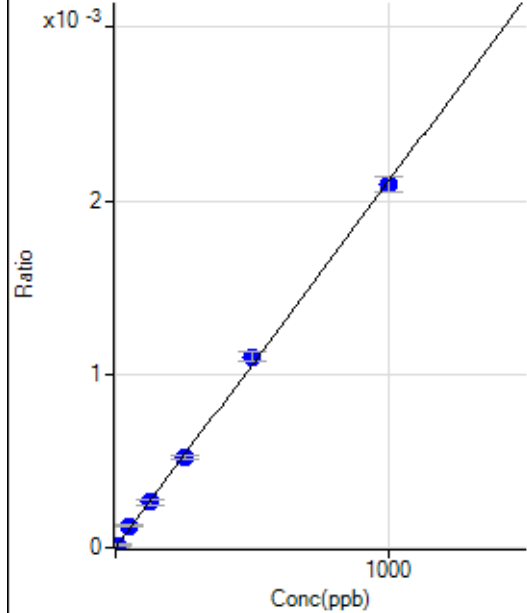
$$DL = 0.03194$$

$$BEC = 0.02163$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	5.996	17.78	0.0000	P	47.8
3	☐	50.000	59.047	173.34	0.0001	P	11.5
4	☐	125.000	123.964	348.90	0.0003	P	10.7
5	☐	250.000	244.832	675.58	0.0005	P	4.4
6	☐	500.000	520.951	1365.64	0.0011	P	4.9
7	☐	1000.000	990.489	2696.95	0.0021	P	4.2
8	☐			0.00	0.0000	P	

$$y = 2.1098\text{E-}006 * x + 8.4134\text{E-}007$$

$$R = 0.9996$$

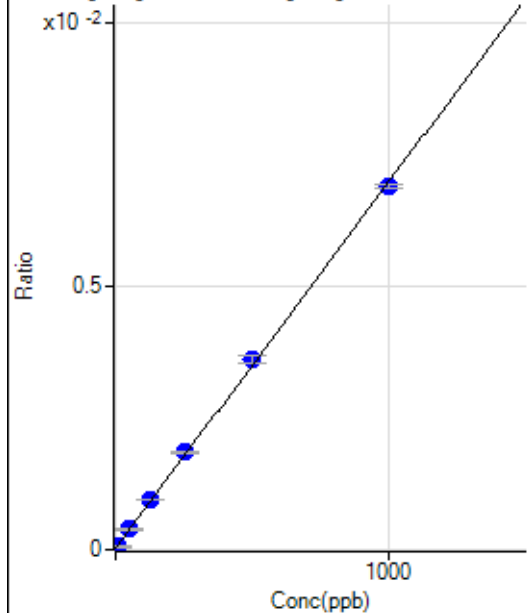
$$DL = 2.072$$

$$BEC = 0.3988$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.00	0.0000	P	11.6
2	☐	5.000	3.912	74.01	0.0001	P	14.5
3	☐	50.000	51.086	528.73	0.0004	P	6.7
4	☐	125.000	131.957	1256.19	0.0009	P	3.0
5	☐	250.000	263.415	2428.79	0.0019	P	2.2
6	☐	500.000	516.932	4498.18	0.0036	P	3.7
7	☐	1000.000	987.262	8893.37	0.0069	P	1.1
8	☐			39.00	0.0000	P	28.3

$$y = 6.9519\text{E-}006 * x + 2.8820\text{E-}005$$

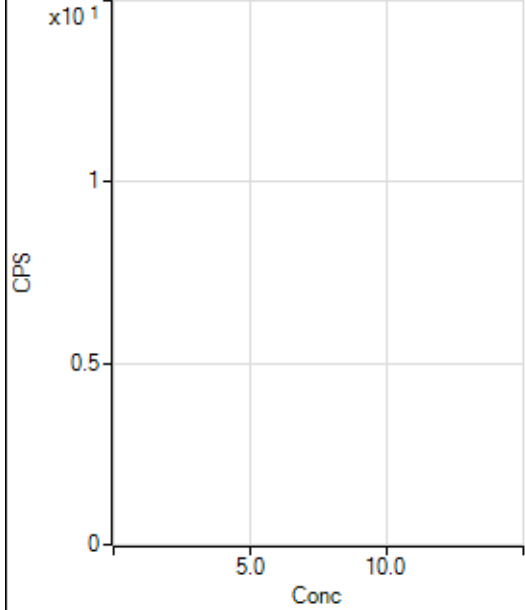
$$R = 0.9997$$

$$DL = 1.44$$

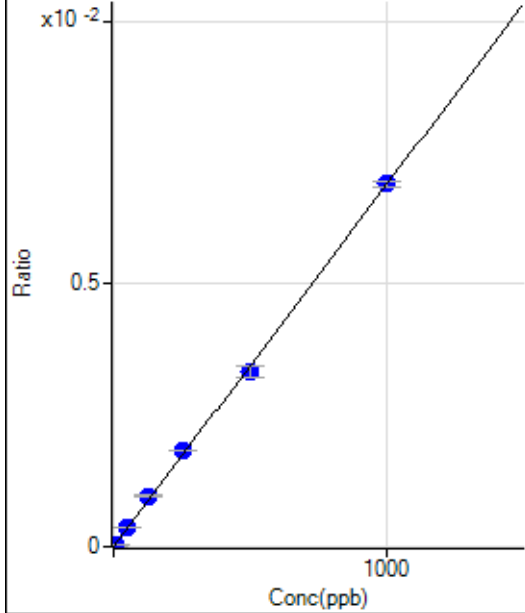
$$BEC = 4.146$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			39406.21		P	0.9
2	☐			39863.76		P	2.7
3	☐			40055.65		P	0.7
4	☐			39565.10		P	2.2
5	☐			38860.46		P	2.6
6	☐			38164.32		P	2.0
7	☐			37807.50		P	2.6
8	☐			37275.67		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.50	0.0000	P	1791.
2	☐	5.000	5.508	432.04	0.0000	P	6.8
3	☐	50.000	55.331	4421.05	0.0004	P	1.0
4	☐	125.000	140.480	10753.36	0.0010	P	3.4
5	☐	250.000	264.924	20844.79	0.0018	P	1.1
6	☐	500.000	482.463	40114.61	0.0033	P	6.7
7	☐	1000.000	1002.834	81416.65	0.0069	P	1.8
8	☐			105.41	0.0000	P	6.8

$$y = 6.8859E-006 * x + 1.7522E-007$$

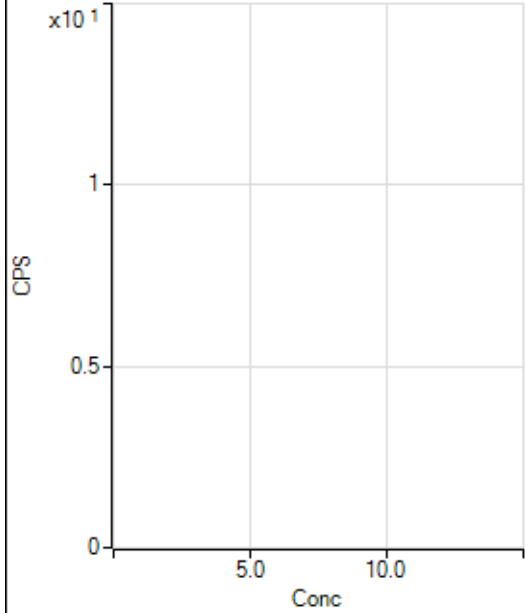
$$R = 0.9996$$

$$DL = 1.368$$

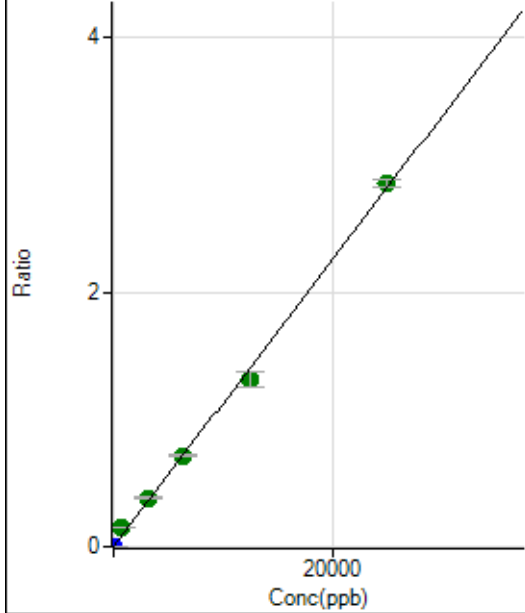
$$BEC = 0.02545$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			220.81		P	15.4
2	☐			188.31		P	4.3
3	☐			204.14		P	8.3
4	☐			199.15		P	9.1
5	☐			205.81		P	4.7
6	☐			210.39		P	6.6
7	☐			215.40		P	2.3
8	☐			182.06		P	3.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	408.35	0.0000	P	9.8
2	☐	1.000	0.963	1644.59	0.0001	P	12.4
3	☐	625.000	1337.702	1747687.08	0.1507	A	0.3
4	☐	3125.000	3390.006	4242586.42	0.3818	A	4.0
5	☐	6250.000	6347.471	8167663.21	0.7149	A	1.1
6	☐	12500.000	11696.758	15889219.80	1.3173	A	8.6
7	☐	25000.000	25326.310	33626992.42	2.8521	A	2.3
8	☐			13879.55	0.0012	P	7.6

$$y = 1.1261E-004 * x + 3.6612E-005$$

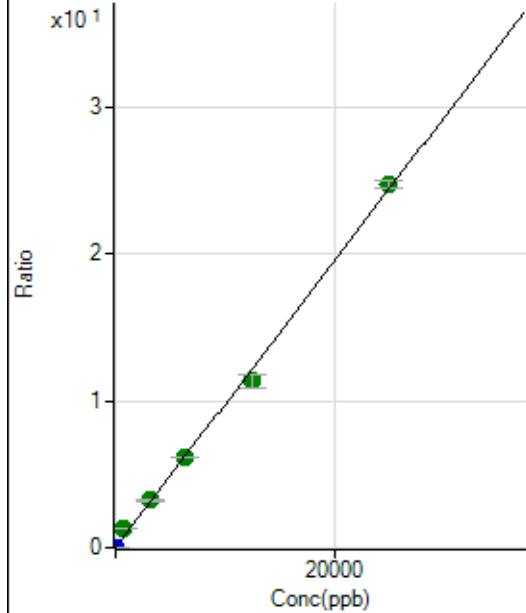
$$R = 0.9987$$

$$DL = 0.09563$$

$$BEC = 0.3251$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	180.56	0.0000	P	69.7
2	☐	1.000	1.025	11496.70	0.0010	P	2.7
3	☐	625.000	1324.648	14952392.87	1.2892	A	1.3
4	☐	3125.000	3302.415	35714771.29	3.2139	A	4.0
5	☐	6250.000	6358.358	70701366.16	6.1880	A	0.6
6	☐	12500.000	11673.653	137104257.2	11.3608	A	7.8
7	☐	25000.000	25346.416	290821325.9	24.6671	A	2.1
8	☐			120118.50	0.0108	P	11.7

$$y = 9.7320\text{E-}004 * x + 1.6333\text{E-}005$$

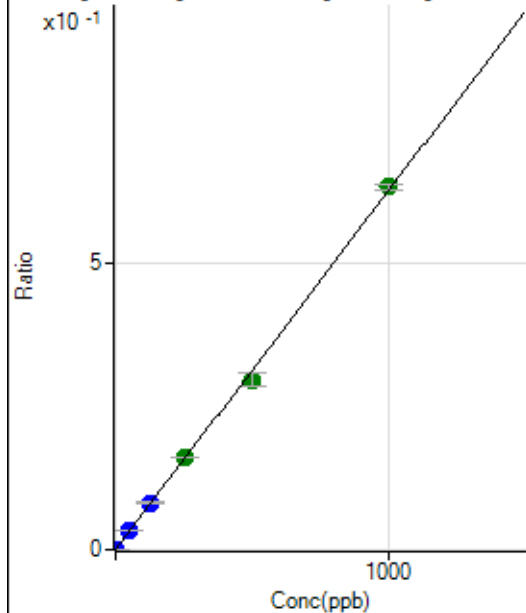
$$R = 0.9987$$

$$DL = 0.03508$$

$$BEC = 0.01678$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	483.36	0.0000	P	10.7
2	☐	1.000	0.924	7049.25	0.0006	P	3.0
3	☐	50.000	52.984	385084.13	0.0332	P	0.9
4	☐	125.000	130.919	910847.42	0.0820	P	4.1
5	☐	250.000	256.055	1831338.58	0.1603	A	1.1
6	☐	500.000	473.821	3576485.41	0.2966	A	8.9
7	☐	1000.000	1010.687	7457583.93	0.6325	A	1.7
8	☐			2939.28	0.0003	P	5.7

$$y = 6.2581\text{E-}004 * x + 4.3322\text{E-}005$$

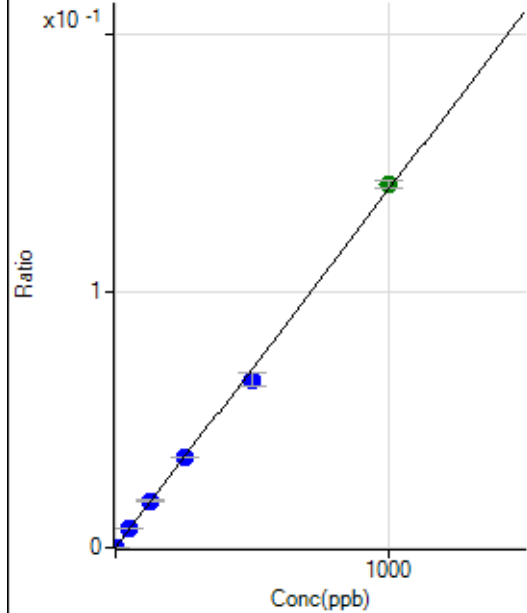
$$R = 0.9995$$

$$DL = 0.02214$$

$$BEC = 0.06923$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	45.2
2	☐	1.000	0.927	1522.35	0.0001	P	3.3
3	☐	50.000	51.741	83813.44	0.0072	P	2.6
4	☐	125.000	130.073	201803.64	0.0182	P	3.6
5	☐	250.000	252.410	402534.58	0.0352	P	1.6
6	☐	500.000	469.681	790942.54	0.0656	P	8.0
7	☐	1000.000	1013.836	1668225.16	0.1415	A	2.0
8	☐			691.71	0.0001	P	22.1

$$y = 1.3956\text{E-}004 * x + 4.9729\text{E-}006$$

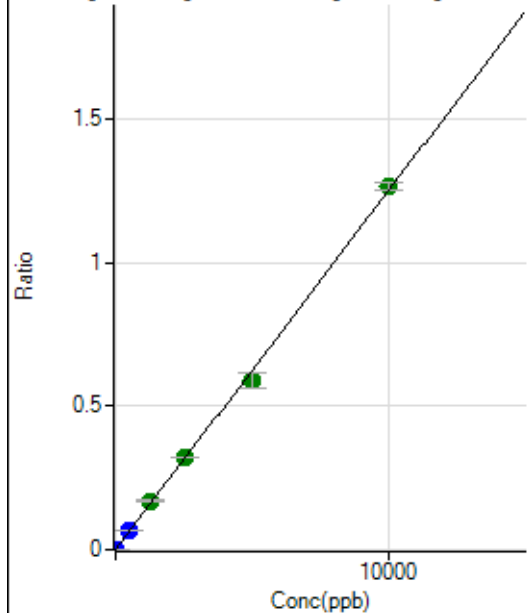
$$R = 0.9993$$

$$DL = 0.0483$$

$$BEC = 0.03563$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	127.78	0.0000	P	22.2
2	☐	5.000	5.869	8441.66	0.0007	P	4.6
3	☐	500.000	542.705	786445.35	0.0678	P	1.1
4	☐	1250.000	1357.483	1884425.28	0.1696	A	4.0
5	☐	2500.000	2570.816	3669310.37	0.3211	A	0.3
6	☐	5000.000	4719.028	7111018.65	0.5895	A	8.5
7	☐	10000.000	10107.211	14885329.33	1.2626	A	2.1
8	☐			5929.25	0.0005	P	13.1

$$y = 1.2492\text{E-}004 * x + 1.1435\text{E-}005$$

$$R = 0.9993$$

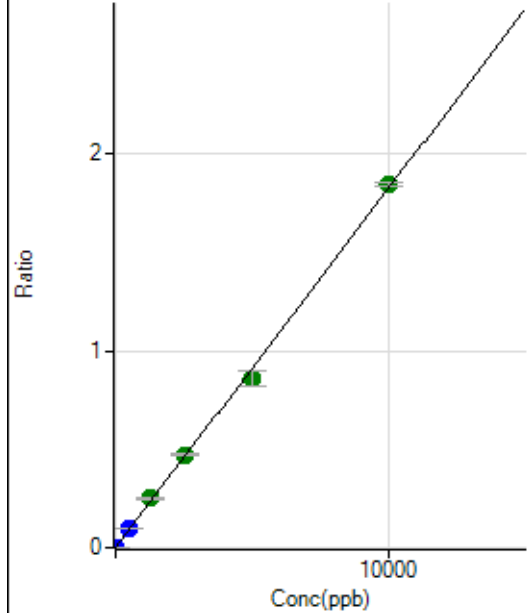
$$DL = 0.06107$$

$$BEC = 0.09154$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	22.6
2	☐	5.000	4.834	10031.64	0.0009	P	2.3
3	☐	500.000	538.423	1140369.63	0.0983	P	1.1
4	☐	1250.000	1373.805	2787435.26	0.2509	A	4.2
5	☐	2500.000	2588.989	5401450.56	0.4728	A	1.9
6	☐	5000.000	4719.878	10396972.98	0.8619	A	8.3
7	☐	10000.000	10100.417	21745728.61	1.8443	A	1.2
8	☐			7780.25	0.0007	P	10.1

$$y = 1.8260\text{E-}004 * x + 1.9929\text{E-}006$$

$$R = 0.9993$$

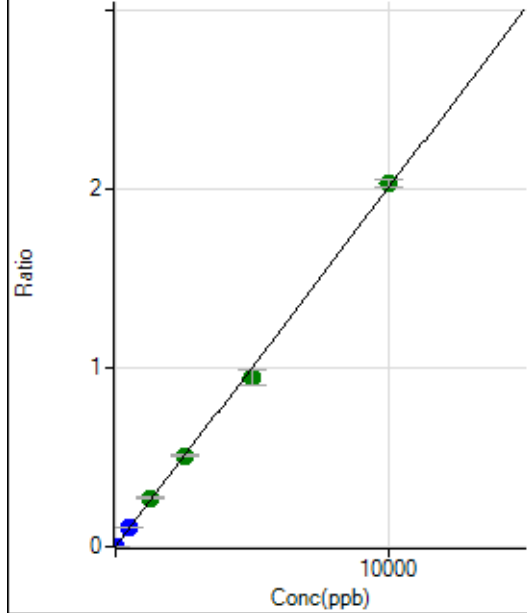
$$DL = 0.007389$$

$$BEC = 0.01091$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.56	0.0000	P	28.1
2	☐	5.000	4.918	11290.98	0.0010	P	1.7
3	☐	500.000	531.362	1238990.24	0.1068	P	1.4
4	☐	1250.000	1356.081	3029813.72	0.2726	A	3.4
5	☐	2500.000	2544.533	5844342.41	0.5115	A	1.8
6	☐	5000.000	4733.149	11473183.59	0.9515	A	9.2
7	☐	10000.000	10107.464	23955793.94	2.0318	A	2.1
8	☐			10932.49	0.0010	P	8.0

$$y = 2.0102\text{E-}004 * x + 7.2406\text{E-}006$$

$$R = 0.9994$$

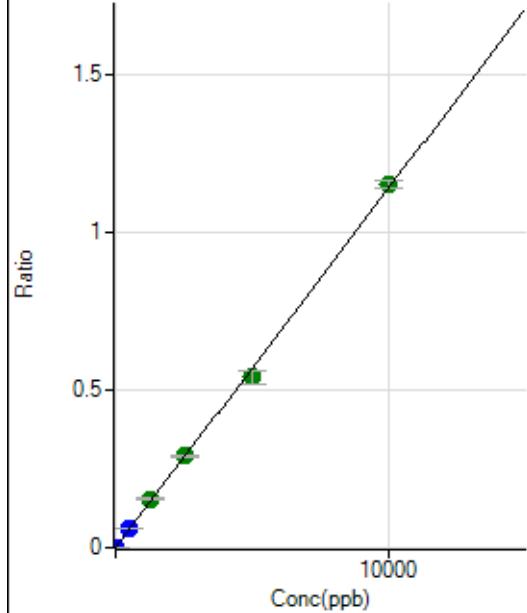
$$DL = 0.03038$$

$$BEC = 0.03602$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	2.4
2	☐	5.000	4.755	6157.09	0.0005	P	5.3
3	☐	500.000	542.219	717431.53	0.0619	P	1.0
4	☐	1250.000	1362.406	1726775.34	0.1554	A	4.4
5	☐	2500.000	2550.134	3323753.16	0.2909	A	1.0
6	☐	5000.000	4741.668	6524272.80	0.5409	A	8.6
7	☐	10000.000	10100.471	13584508.47	1.1522	A	2.1
8	☐			5170.59	0.0005	P	7.5

$$y = 1.1407\text{E-}004 * x + 7.4599\text{E-}007$$

$$R = 0.9994$$

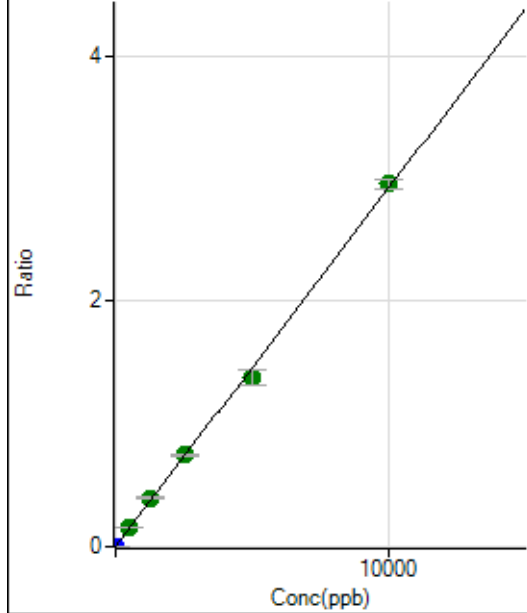
$$DL = 0.0004708$$

$$BEC = 0.006539$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	44.1
2	☐	5.000	4.928	16340.56	0.0014	P	1.0
3	☐	500.000	543.995	1842274.61	0.1588	A	0.9
4	☐	1250.000	1345.651	4365011.73	0.3929	A	4.7
5	☐	2500.000	2555.988	8526701.32	0.7463	A	0.8
6	☐	5000.000	4703.048	16560681.45	1.3732	A	9.0
7	☐	10000.000	10120.323	34836588.28	2.9548	A	2.7
8	☐			12150.30	0.0011	P	10.1

$$y = 2.9197\text{E-}004 * x + 2.4727\text{E-}006$$

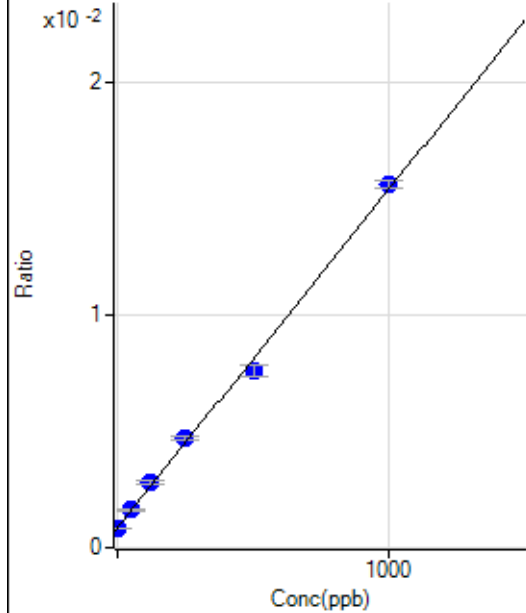
$$R = 0.9993$$

$$DL = 0.01121$$

$$BEC = 0.008469$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6693.47	0.0008	P	1.3
2	☐	1.000	0.709	6957.51	0.0008	P	4.0
3	☐	50.000	55.474	13668.29	0.0016	P	4.9
4	☐	125.000	134.500	22351.88	0.0028	P	4.4
5	☐	250.000	265.908	38682.78	0.0047	P	2.4
6	☐	500.000	463.947	67912.50	0.0076	P	5.8
7	☐	1000.000	1012.588	134489.97	0.0156	P	2.0
8	☐			6715.70	0.0008	P	3.6

$$y = 1.4547\text{E-}005 * x + 8.3739\text{E-}004$$

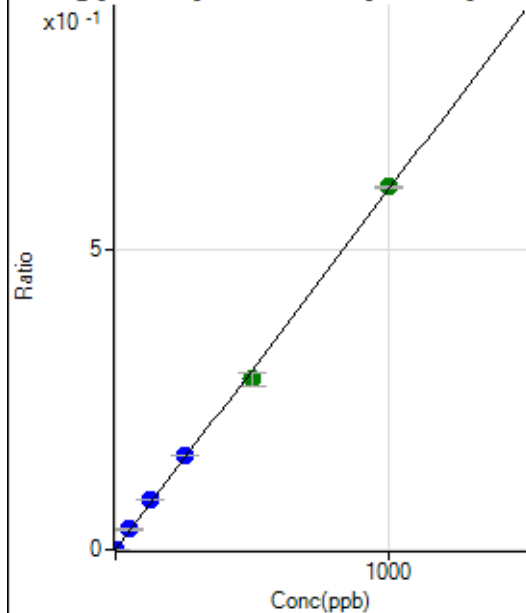
$$R = 0.9989$$

$$DL = 2.244$$

$$BEC = 57.57$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	102.78	0.0000	P	13.8
2	☐	1.000	1.084	5431.75	0.0007	P	4.6
3	☐	50.000	56.198	279673.18	0.0337	P	2.1
4	☐	125.000	138.178	662171.97	0.0828	P	2.8
5	☐	250.000	262.378	1292043.88	0.1571	P	1.2
6	☐	500.000	473.509	2535096.00	0.2836	A	8.1
7	☐	1000.000	1008.194	5217470.39	0.6038	A	0.3
8	☐			2480.85	0.0003	P	4.3

$$y = 5.9889\text{E-}004 * x + 1.2875\text{E-}005$$

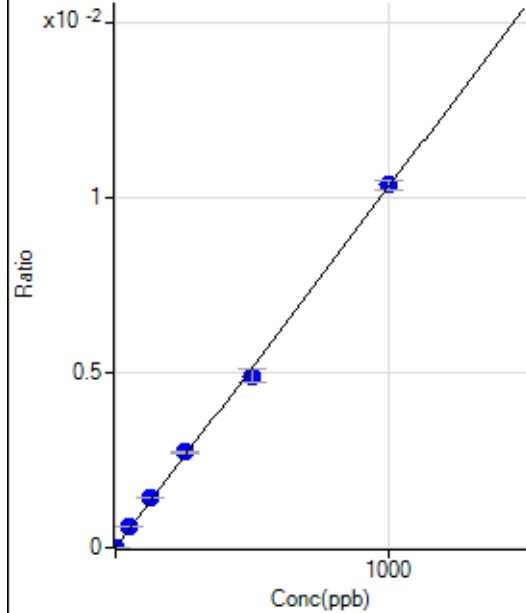
$$R = 0.9993$$

$$DL = 0.008893$$

$$BEC = 0.0215$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23.61	0.0000	P	28.0
2	☐	1.000	0.965	105.56	0.0000	P	26.4
3	☐	50.000	56.888	4887.04	0.0006	P	1.3
4	☐	125.000	138.535	11431.24	0.0014	P	1.6
5	☐	250.000	264.451	22394.74	0.0027	P	1.2
6	☐	500.000	476.130	43832.13	0.0049	P	7.7
7	☐	1000.000	1006.286	89475.22	0.0104	P	2.5
8	☐			86.11	0.0000	P	22.7

$$y = 1.0289\text{E-}005 * x + 2.9614\text{E-}006$$

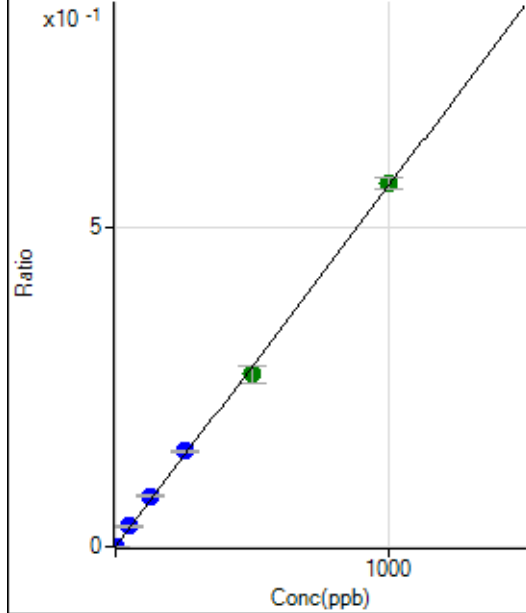
$$R = 0.9994$$

$$DL = 0.2415$$

$$BEC = 0.2878$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	34.1
2	☐	1.000	1.137	5312.27	0.0006	P	5.5
3	☐	50.000	56.455	265812.45	0.0320	P	2.0
4	☐	125.000	140.987	639050.56	0.0799	P	4.1
5	☐	250.000	263.955	1230004.72	0.1496	P	0.2
6	☐	500.000	477.986	2419601.40	0.2709	A	9.5
7	☐	1000.000	1005.197	4921312.00	0.5697	A	3.3
8	☐			2522.54	0.0003	P	7.1

$$y = 5.6676\text{E-}004 * x + 3.1357\text{E-}006$$

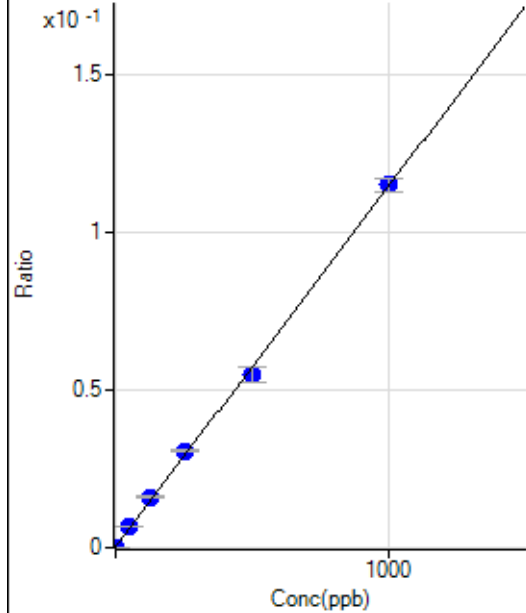
$$R = 0.9994$$

$$DL = 0.005668$$

$$BEC = 0.005533$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1326.33	0.0002	P	1.1
2	☐	1.000	1.050	2348.22	0.0003	P	4.8
3	☐	50.000	56.740	55306.78	0.0067	P	1.5
4	☐	125.000	139.127	128581.78	0.0161	P	5.4
5	☐	250.000	266.748	252282.94	0.0307	P	1.1
6	☐	500.000	478.929	490910.64	0.0550	P	9.4
7	☐	1000.000	1004.245	993915.44	0.1151	P	3.8
8	☐			1767.60	0.0002	P	2.0

$$y = 1.1441\text{E-}004 * x + 1.6593\text{E-}004$$

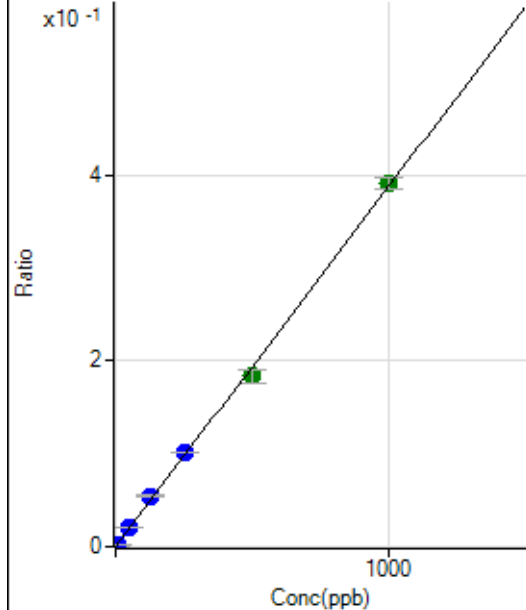
$$R = 0.9994$$

$$DL = 0.04644$$

$$BEC = 1.45$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	533.36	0.0001	P	21.6
2	☐	5.000	5.077	16688.38	0.0020	P	3.4
3	☐	50.000	54.591	176375.43	0.0212	P	0.4
4	☐	125.000	139.339	432583.30	0.0541	P	3.6
5	☐	250.000	261.624	834384.03	0.1015	P	0.8
6	☐	500.000	474.048	1643386.94	0.1838	A	8.0
7	☐	1000.000	1008.048	3376420.15	0.3909	A	3.2
8	☐			2875.39	0.0003	P	5.9

$$y = 3.8766\text{E-}004 * x + 6.6868\text{E-}005$$

$$R = 0.9993$$

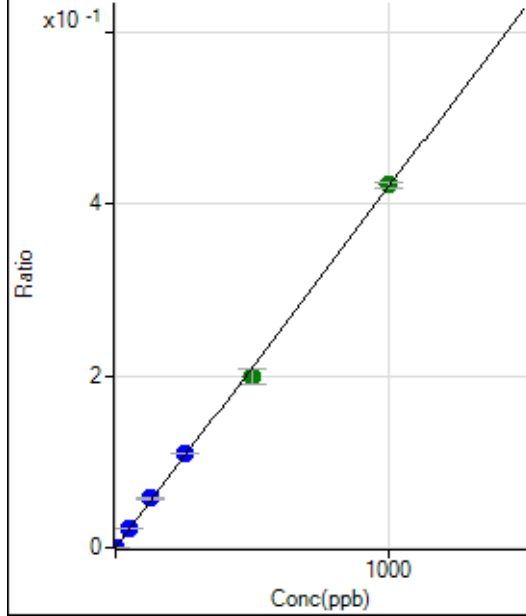
$$DL = 0.1117$$

$$BEC = 0.1725$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.1
2	☐	2.000	2.047	7057.56	0.0009	P	3.8
3	☐	50.000	54.722	190660.41	0.0230	P	2.4
4	☐	125.000	138.093	463349.53	0.0579	P	3.4
5	☐	250.000	263.291	908020.57	0.1104	P	0.3
6	☐	500.000	476.406	1785624.06	0.1998	A	8.8
7	☐	1000.000	1006.601	3647875.26	0.4222	A	1.8
8	☐			2497.52	0.0003	P	14.0

$$y = 4.1946\text{E-}004 * x + 1.7231\text{E-}006$$

$$R = 0.9994$$

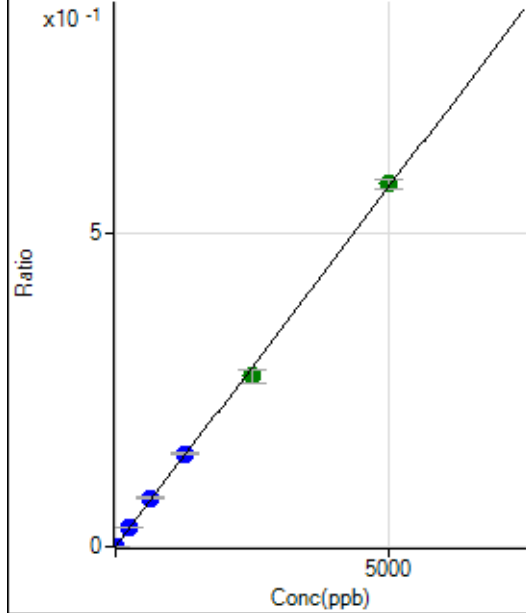
$$DL = 0.01123$$

$$BEC = 0.004108$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	48.8
2	☐	10.000	9.943	9381.30	0.0011	P	0.7
3	☐	250.000	270.013	257453.85	0.0310	P	1.8
4	☐	625.000	676.836	621303.41	0.0777	P	4.3
5	☐	1250.000	1287.872	1215277.83	0.1478	P	1.5
6	☐	2500.000	2369.692	2431553.87	0.2720	A	8.0
7	☐	5000.000	5048.206	5006409.75	0.5795	A	2.3
8	☐			3756.20	0.0005	P	6.4

$$y = 1.1478\text{E-}004 * x + 2.0776\text{E-}006$$

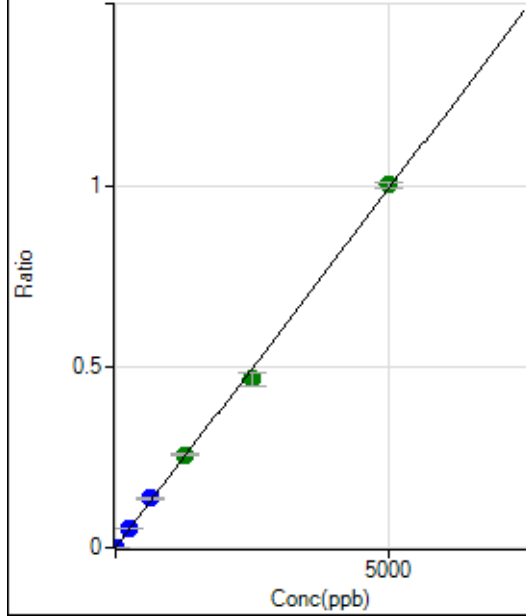
$$R = 0.9994$$

$$DL = 0.02649$$

$$BEC = 0.0181$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	100.0
2	☐	10.000	10.067	16374.24	0.0020	P	4.0
3	☐	250.000	272.980	449076.67	0.0541	P	1.0
4	☐	625.000	687.486	1088227.34	0.1361	P	5.8
5	☐	1250.000	1297.499	2112273.98	0.2569	A	1.4
6	☐	2500.000	2346.444	4151874.05	0.4646	A	8.7
7	☐	5000.000	5055.943	8649851.41	1.0012	A	1.6
8	☐			6707.43	0.0008	P	8.0

$$y = 1.9802E-004 * x + 2.4503E-006$$

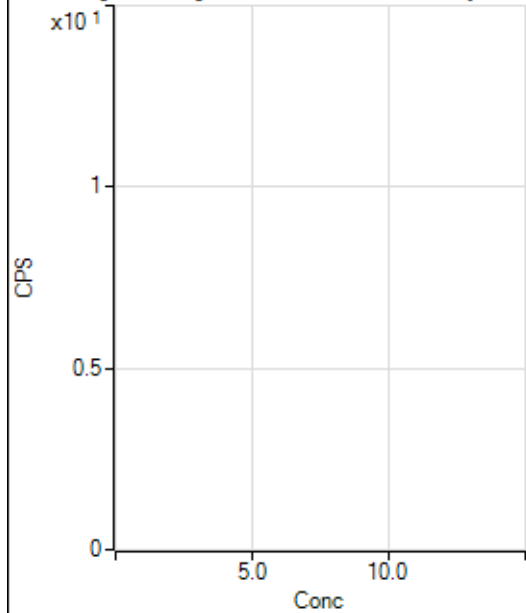
$$R = 0.9992$$

$$DL = 0.03712$$

$$BEC = 0.01237$$

Weight: <None>

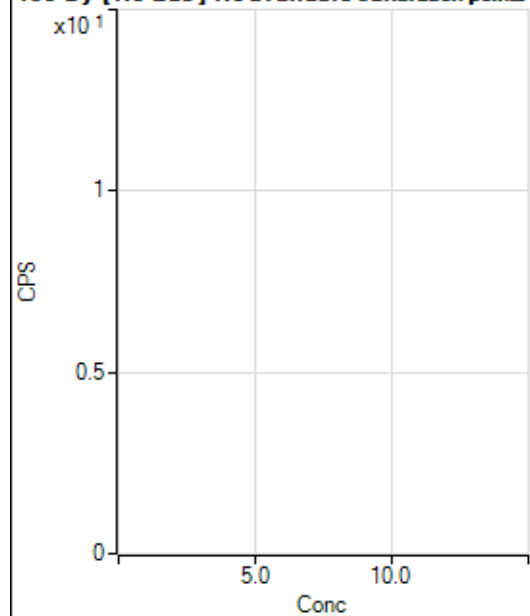
Min Conc: 0

150 Nd [No Gas] No available calibration points

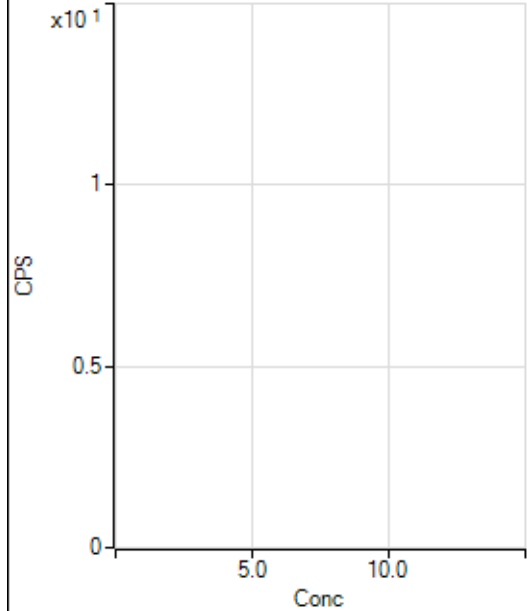
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.45		P	86.6
2	☐			13.33		P	NaN
3	☐			55.56		P	25.0
4	☐			155.56		P	4.9
5	☐			282.23		P	5.9
6	☐			493.35		P	3.6
7	☐			1168.96		P	13.5
8	☐			33.33		P	72.1

150 Nd [He] No available calibration points

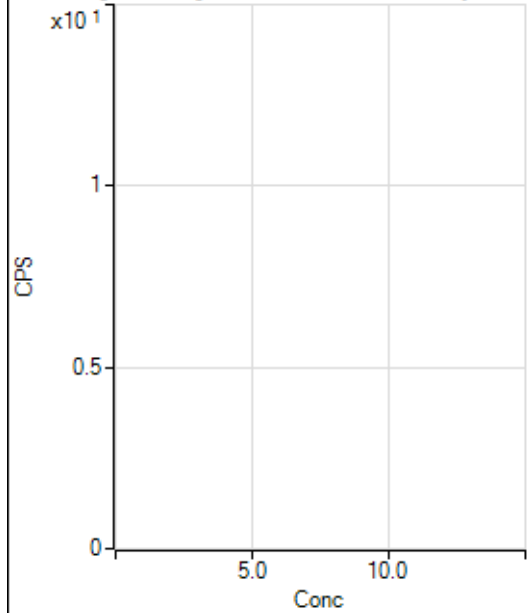
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			14.44		P	13.4
5	☐			16.67		P	20.0
6	☐			30.00		P	67.6
7	☐			81.11		P	35.0
8	☐			17.78		P	75.8

156 Dy [No Gas] No available calibration points

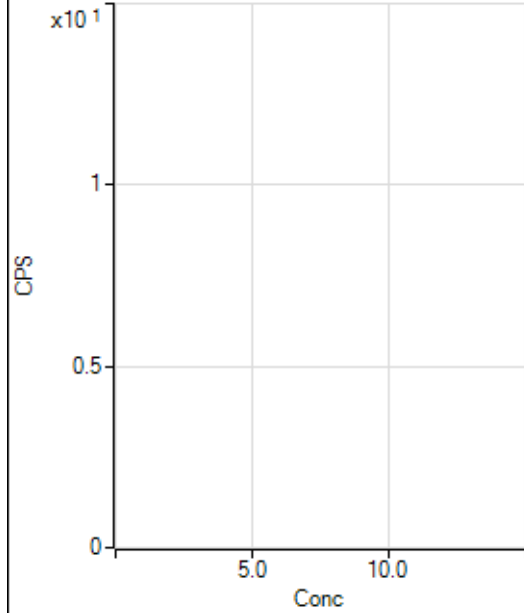
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.78		P	173.2
2	☐			5.56		P	173.2
3	☐			36.11		P	81.1
4	☐			25.00		P	0.0
5	☐			91.67		P	24.1
6	☐			183.34		P	12.0
7	☐			400.02		P	27.2
8	☐			863.95		P	19.0

156 Dy [He] No available calibration points

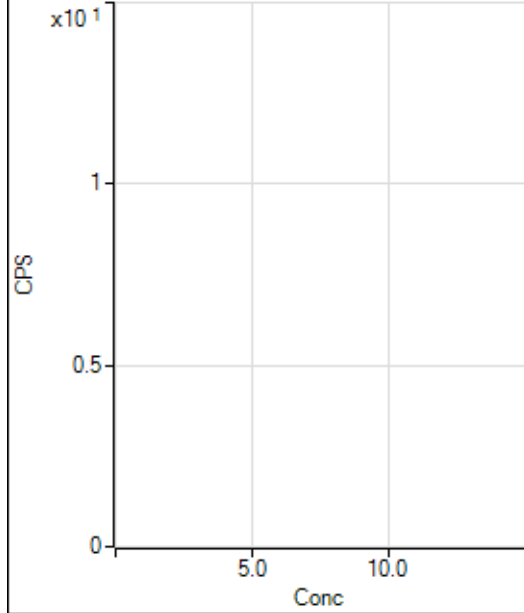
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			16.67		P	52.9
4	☐			22.22		P	17.3
5	☐			46.67		P	21.4
6	☐			91.11		P	16.9
7	☐			178.89		P	2.8
8	☐			413.34		P	11.1

160 Gd [No Gas] Noavailable calibration poin_

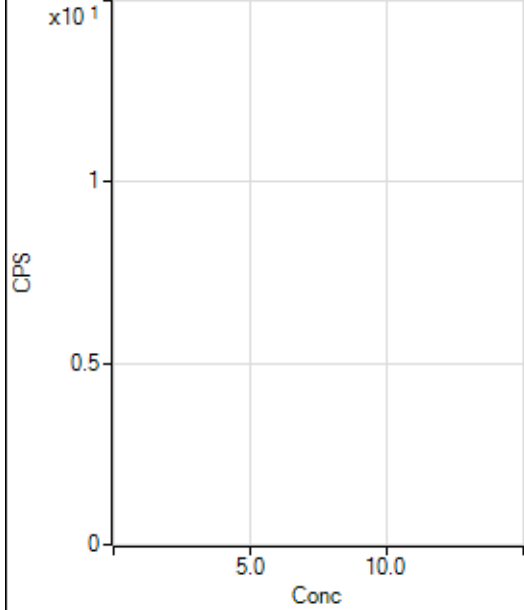
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			97.23		P	40.5
2	☐			125.00		P	11.5
3	☐			86.11		P	31.1
4	☐			141.67		P	25.6
5	☐			175.01		P	9.5
6	☐			188.90		P	9.2
7	☐			369.46		P	7.9
8	☐			1130.63		P	2.4

160 Gd [He] No available calibration points

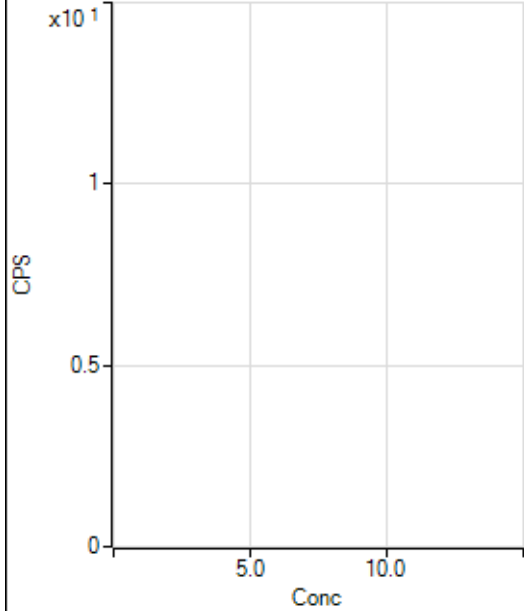
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			156.67		P	9.8
2	☐			142.23		P	5.4
3	☐			164.45		P	16.9
4	☐			168.89		P	4.6
5	☐			175.56		P	17.0
6	☐			201.11		P	13.4
7	☐			287.79		P	11.6
8	☐			671.14		P	13.4

164 Er [No Gas] No available calibration points

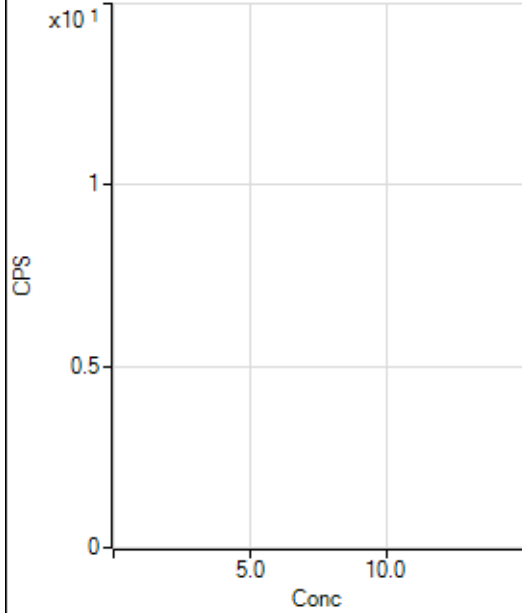
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			77.78		P	40.6
2	☐			66.67		P	33.1
3	☐			63.89		P	27.2
4	☐			66.67		P	12.5
5	☐			97.22		P	21.6
6	☐			105.56		P	24.1
7	☐			158.34		P	29.3
8	☐			91.67		P	48.1

164 Er [He] No available calibration points

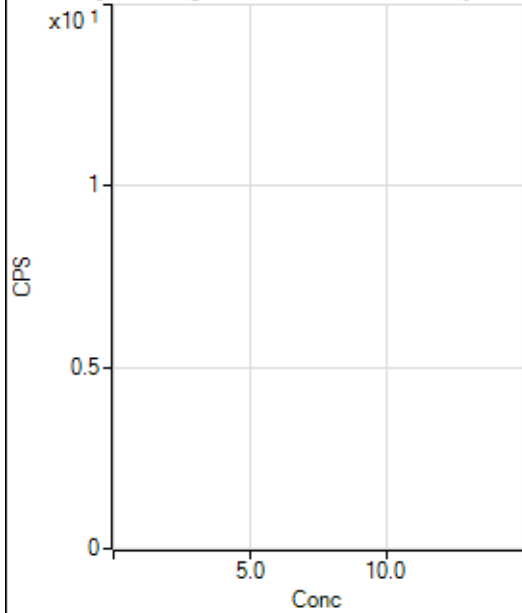
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			23.33		P	75.6
2	☐			22.22		P	67.6
3	☐			25.56		P	30.1
4	☐			21.11		P	50.8
5	☐			30.00		P	38.5
6	☐			40.00		P	8.3
7	☐			64.44		P	3.0
8	☐			42.22		P	9.1

172 Yb [No Gas] No available calibration points

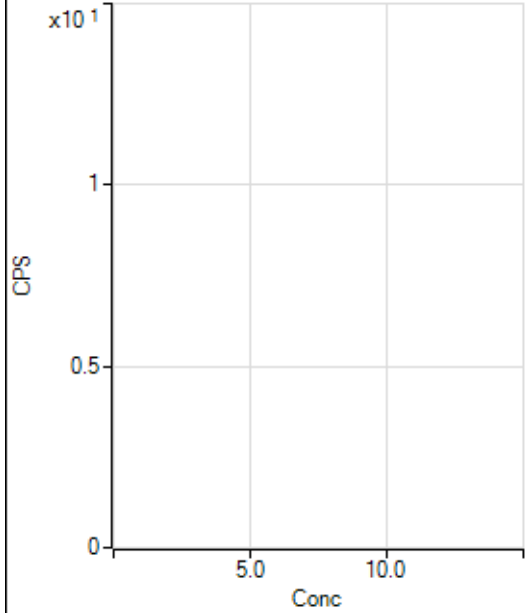
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			55.56		P	34.6
2	☐			30.56		P	110.2
3	☐			52.78		P	24.1
4	☐			58.34		P	37.8
5	☐			72.22		P	29.0
6	☐			97.23		P	47.2
7	☐			166.67		P	20.0
8	☐			363.90		P	10.3

172 Yb [He] No available calibration points

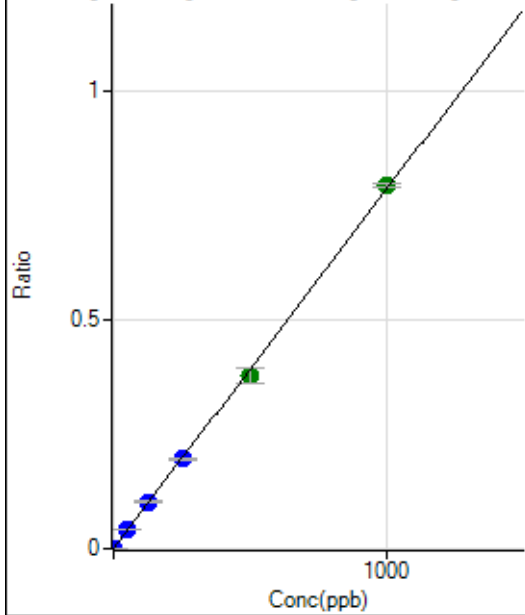
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27.78		P	20.0
2	☐			29.63		P	28.6
3	☐			33.34		P	44.1
4	☐			33.33		P	33.3
5	☐			40.74		P	43.8
6	☐			66.67		P	14.4
7	☐			101.85		P	11.4
8	☐			214.82		P	12.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1922.42		P	6.2
2	☐			2194.70		P	7.5
3	☐			2905.96		P	4.5
4	☐			4153.56		P	5.9
5	☐			6590.75		P	2.6
6	☐			10846.40		P	2.3
7	☐			19876.64		P	2.6
8	☐			2222.47		P	3.7

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			10250.43		P	1.4
2	☐			10255.97		P	4.6
3	☐			10871.34		P	9.1
4	☐			11204.96		P	3.0
5	☐			12495.01		P	3.5
6	☐			13655.44		P	3.2
7	☐			19154.92		P	2.5
8	☐			10739.71		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.34	0.0000	P	65.7
2	☐	1.000	0.980	4267.49	0.0008	P	6.1
3	☐	50.000	51.441	224834.38	0.0405	P	0.2
4	☐	125.000	129.216	543065.39	0.1017	P	3.5
5	☐	250.000	248.865	1066781.68	0.1958	P	3.6
6	☐	500.000	480.591	2185643.21	0.3782	A	9.1
7	☐	1000.000	1009.389	4436451.92	0.7942	A	1.2
8	☐			1372.34	0.0003	P	14.8

$$y = 7.8683E-004 * x + 1.0880E-005$$

$$R = 0.9997$$

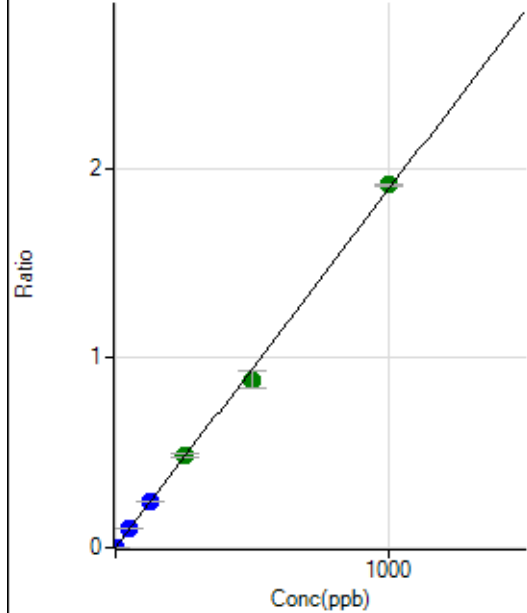
$$DL = 0.02724$$

$$BEC = 0.01383$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	155.56	0.0000	P	20.6
2	☐	1.000	0.952	9959.61	0.0018	P	0.6
3	☐	50.000	51.984	544783.04	0.0981	P	0.6
4	☐	125.000	129.871	1309158.62	0.2450	P	1.7
5	☐	250.000	255.592	2626758.00	0.4822	A	3.9
6	☐	500.000	469.662	5119657.02	0.8861	A	9.5
7	☐	1000.000	1013.063	10676870.29	1.9112	A	0.5
8	☐			3759.04	0.0008	P	18.0

$$y = 0.0019 * x + 2.8884E-005$$

$$R = 0.9993$$

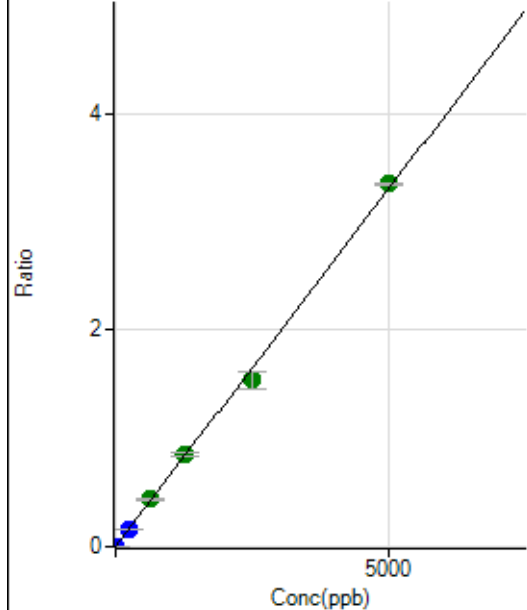
$$DL = 0.009452$$

$$BEC = 0.01531$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	370.38	0.0001	P	23.1
2	☐	1.000	0.913	3669.11	0.0007	P	4.3
3	☐	250.000	252.378	927096.55	0.1669	P	0.7
4	☐	625.000	660.078	2331758.67	0.4365	A	2.6
5	☐	1250.000	1284.050	4625977.42	0.8491	A	3.3
6	☐	2500.000	2328.948	8895712.64	1.5399	A	9.8
7	☐	5000.000	5072.510	18735750.42	3.3540	A	0.7
8	☐			6112.67	0.0012	P	7.4

$$y = 6.6119E-004 * x + 6.8891E-005$$

$$R = 0.9991$$

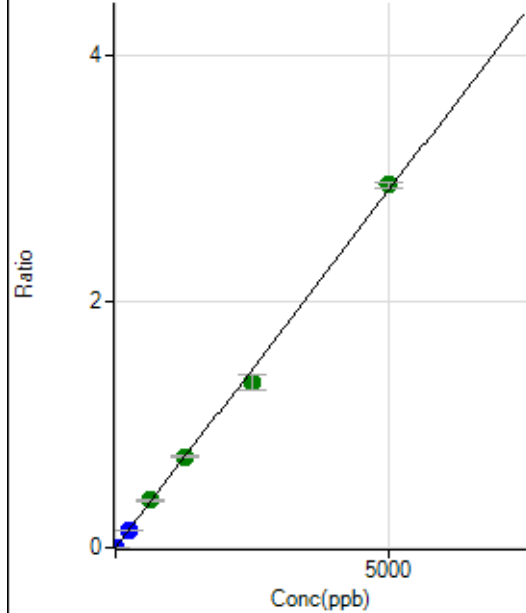
$$DL = 0.07222$$

$$BEC = 0.1042$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	311.12	0.0001	P	10.9
2	☐	1.000	0.939	3283.81	0.0006	P	2.5
3	☐	250.000	254.432	818659.03	0.1474	P	0.6
4	☐	625.000	663.590	2053896.97	0.3844	A	1.3
5	☐	1250.000	1275.873	4026354.37	0.7390	A	3.1
6	☐	2500.000	2315.297	7748332.99	1.3410	A	9.4
7	☐	5000.000	5080.838	16441308.93	2.9428	A	1.7
8	☐			5097.40	0.0010	P	7.6

$$y = 5.7918\text{E-}004 * x + 5.7678\text{E-}005$$

$$R = 0.9989$$

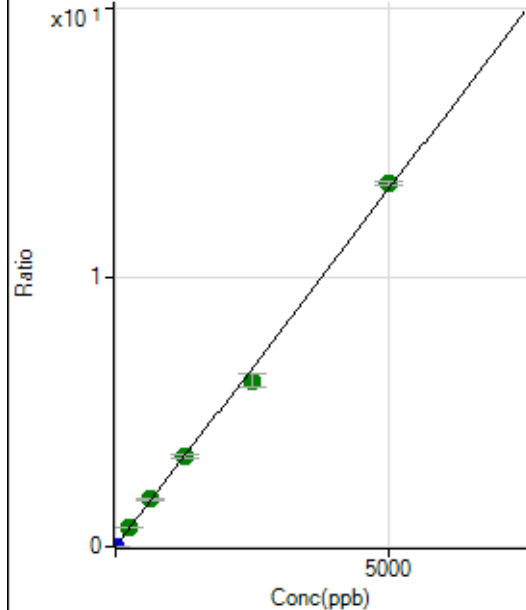
$$DL = 0.03247$$

$$BEC = 0.09959$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1398.21	0.0003	P	7.0
2	☐	1.000	0.936	14981.50	0.0027	P	0.6
3	☐	250.000	259.868	3832479.56	0.6901	A	0.7
4	☐	625.000	659.692	9358849.04	1.7515	A	1.2
5	☐	1250.000	1268.847	18354012.68	3.3685	A	2.7
6	☐	2500.000	2323.451	35655153.69	6.1681	A	8.7
7	☐	5000.000	5078.733	75319375.99	13.4822	A	1.0
8	☐			23964.77	0.0048	P	6.1

$$y = 0.0027 * x + 2.5957\text{E-}004$$

$$R = 0.9990$$

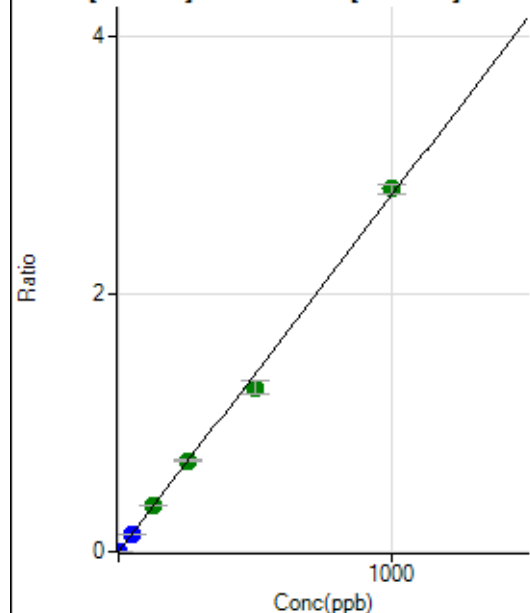
$$DL = 0.02043$$

$$BEC = 0.09778$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	33.9
2	☐	1.000	0.939	14191.58	0.0026	P	2.0
3	☐	50.000	50.286	772338.06	0.1391	P	0.9
4	☐	125.000	129.159	1908091.71	0.3572	A	2.7
5	☐	250.000	254.851	3840545.35	0.7048	A	2.6
6	☐	500.000	459.742	7351889.75	1.2714	A	8.2
7	☐	1000.000	1018.382	15733816.32	2.8163	A	2.6
8	☐			3050.48	0.0006	P	9.8

$$y = 0.0028 * x + 4.6492E-006$$

$$R = 0.9988$$

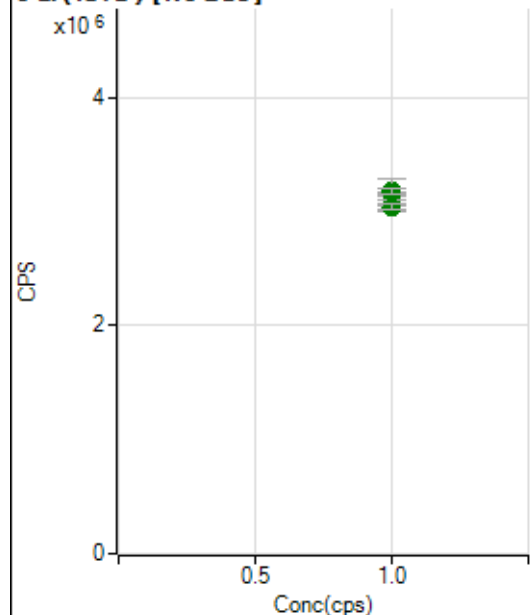
$$DL = 0.001709$$

$$BEC = 0.001681$$

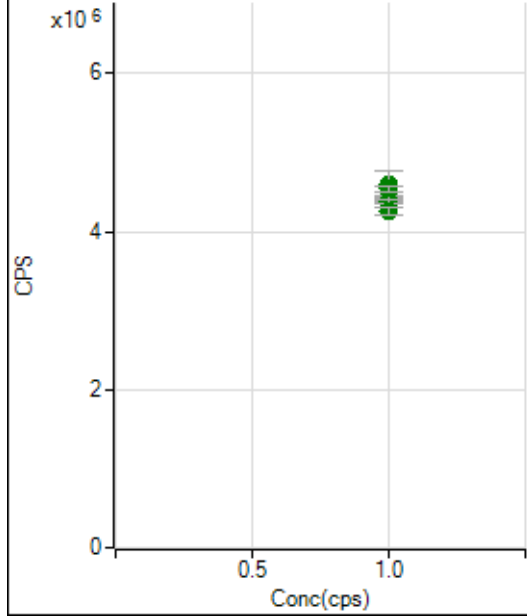
Weight: <None>

Min Conc: 0

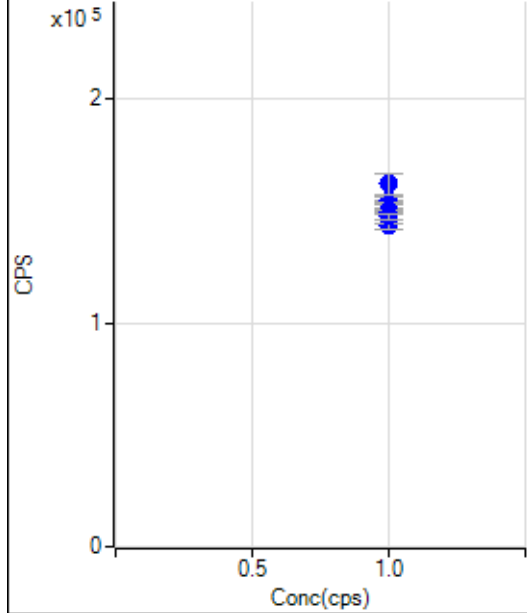
6 Li (ISTD) [No Gas]



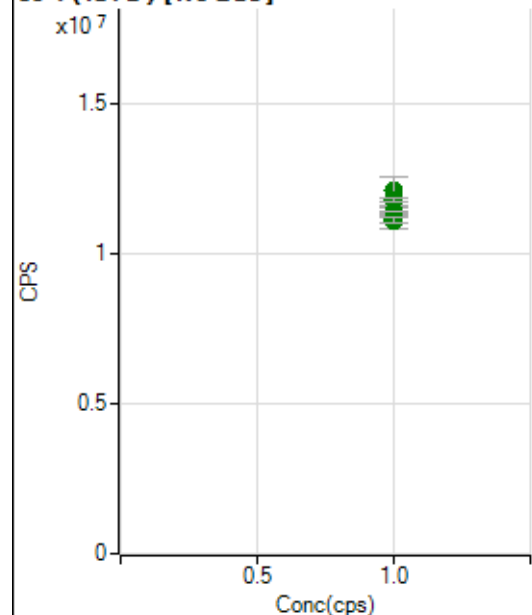
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3131817.04		A	1.9
2	☐	1.000		3170556.45		A	2.0
3	☐	1.000		3154085.56		A	1.2
4	☐	1.000		3055433.78		A	3.7
5	☐	1.000		3075865.94		A	1.5
6	☐	1.000		3181991.61		A	6.9
7	☐	1.000		3176482.71		A	1.3
8	☐	1.000		3042555.42		A	1.7

45 Sc (ISTD) [No Gas]

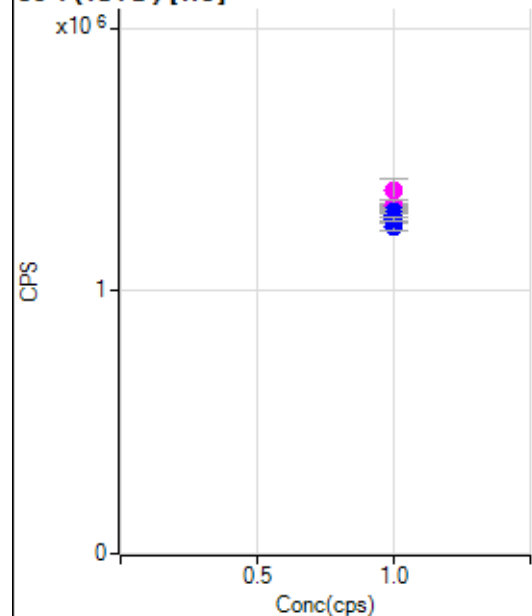
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4415853.37		A	1.4
2	☐	1.000		4415343.44		A	0.7
3	☐	1.000		4434687.89		A	1.2
4	☐	1.000		4320122.57		A	4.6
5	☐	1.000		4374535.11		A	0.9
6	☐	1.000		4592190.11		A	7.6
7	☐	1.000		4542048.75		A	1.3
8	☐	1.000		4257611.95		A	2.5

45 Sc (ISTD) [He]

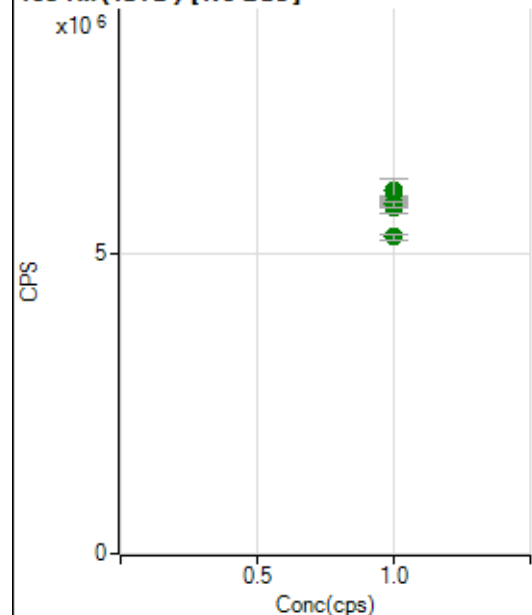
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		153694.13		P	0.7
2	☐	1.000		155024.80		P	1.2
3	☐	1.000		162083.43		P	6.1
4	☐	1.000		153117.22		P	0.5
5	☐	1.000		150435.66		P	1.5
6	☐	1.000		143144.45		P	1.8
7	☐	1.000		149532.33		P	0.8
8	☐	1.000		147471.85		P	1.6

89 Y (ISTD) [No Gas]

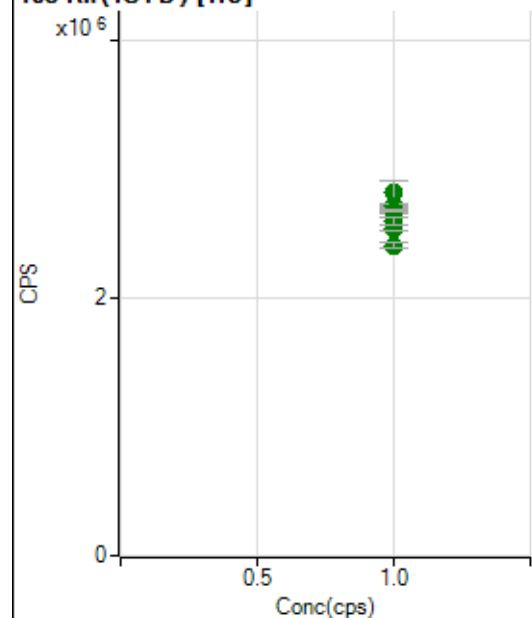
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11170676.15		A	2.4
2	☐	1.000		11338446.64		A	0.5
3	☐	1.000		11598649.55		A	0.2
4	☐	1.000		11126192.54		A	4.8
5	☐	1.000		11425593.99		A	0.1
6	☐	1.000		12116330.24		A	7.8
7	☐	1.000		11791353.71		A	1.0
8	☐	1.000		11139158.31		A	2.2

89 Y (ISTD) [He]

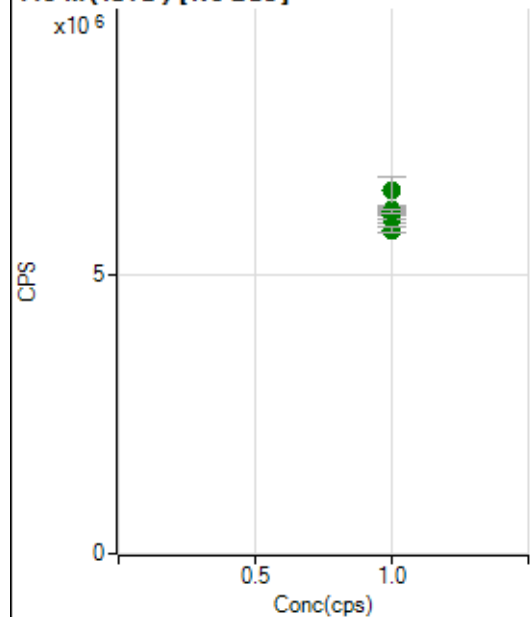
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1318013.02		P	0.5
2	☐	1.000		1320516.64		P	0.7
3	☐	1.000		1381323.41		M	7.0
4	☐	1.000		1328423.31		M	2.9
5	☐	1.000		1305813.11		P	0.4
6	☐	1.000		1242449.62		P	2.3
7	☐	1.000		1290267.69		P	1.0
8	☐	1.000		1272607.75		P	1.3

103 Rh (ISTD) [No Gas]

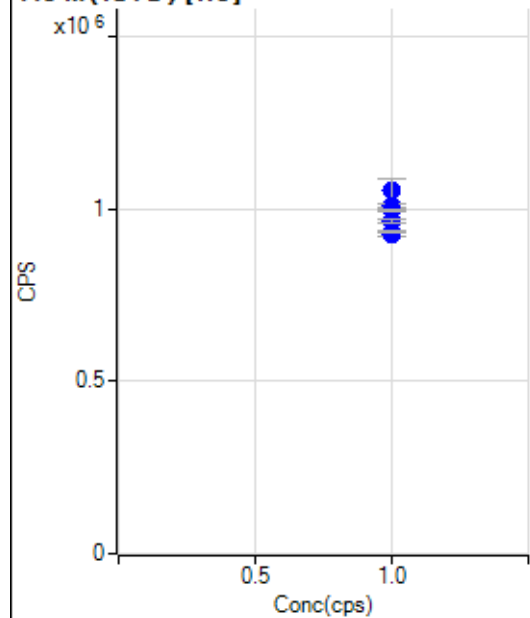
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5893080.25		A	2.6
2	☐	1.000		5836489.89		A	1.4
3	☐	1.000		5913339.54		A	0.9
4	☐	1.000		5781593.97		A	3.3
5	☐	1.000		5840164.15		A	0.6
6	☐	1.000		6051703.17		A	7.1
7	☐	1.000		5828987.54		A	1.5
8	☐	1.000		5281061.31		A	1.6

103 Rh (ISTD) [He]

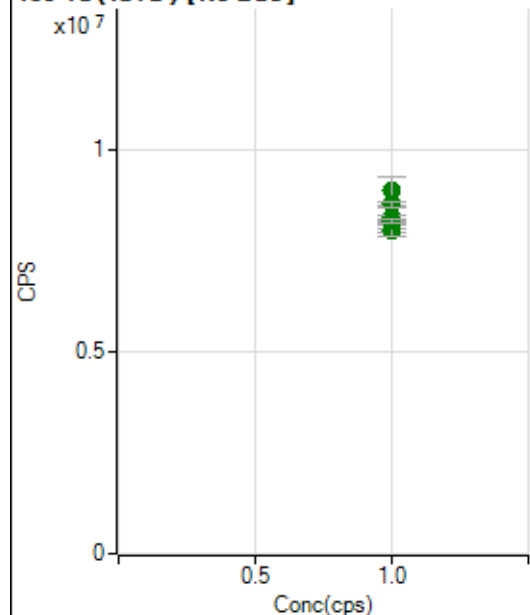
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2691114.54		A	2.0
2	☐	1.000		2690256.97		A	1.7
3	☐	1.000		2820139.44		A	7.0
4	☐	1.000		2721540.32		A	0.7
5	☐	1.000		2680618.73		A	0.8
6	☐	1.000		2547504.11		A	2.2
7	☐	1.000		2604131.49		A	2.5
8	☐	1.000		2412753.89		A	1.7

115 In (ISTD) [No Gas]

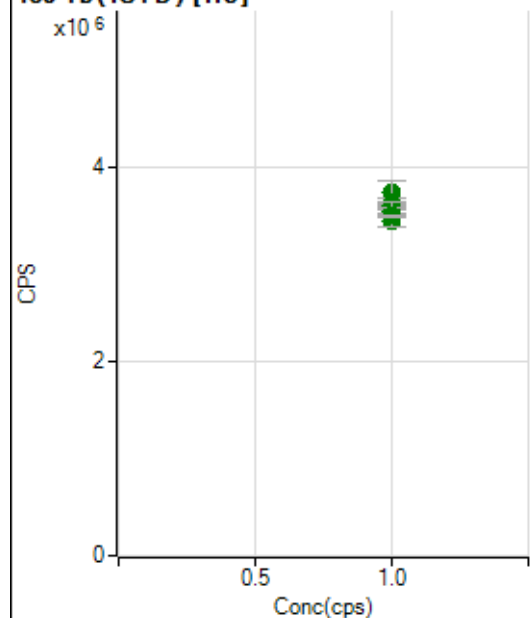
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6148257.97		A	1.8
2	☐	1.000		6116978.17		A	1.0
3	☐	1.000		6193212.94		A	1.5
4	☐	1.000		6097378.71		A	5.3
5	☐	1.000		6028093.53		A	0.1
6	☐	1.000		6524287.34		A	8.0
7	☐	1.000		6151601.89		A	1.4
8	☐	1.000		5822230.75		A	1.7

115 In (ISTD) [He]

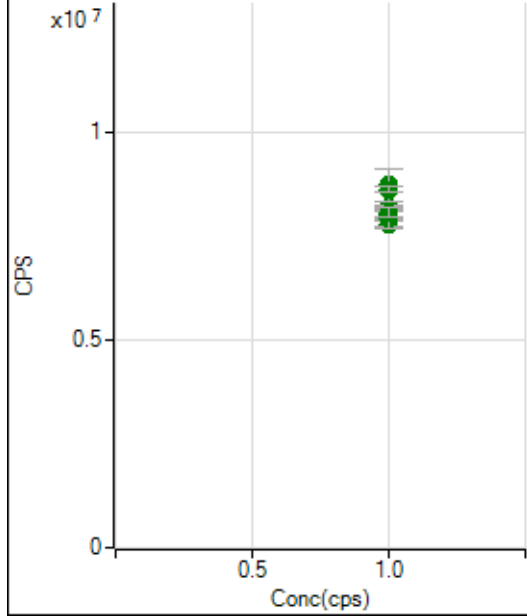
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1000370.82		P	0.5
2	☐	1.000		1005050.00		P	0.4
3	☐	1.000		1052801.73		P	7.1
4	☐	1.000		1007853.65		P	1.3
5	☐	1.000		996198.13		P	0.8
6	☐	1.000		928467.44		P	2.0
7	☐	1.000		966526.72		P	1.3
8	☐	1.000		932519.67		P	0.7

159 Tb (ISTD) [No Gas]

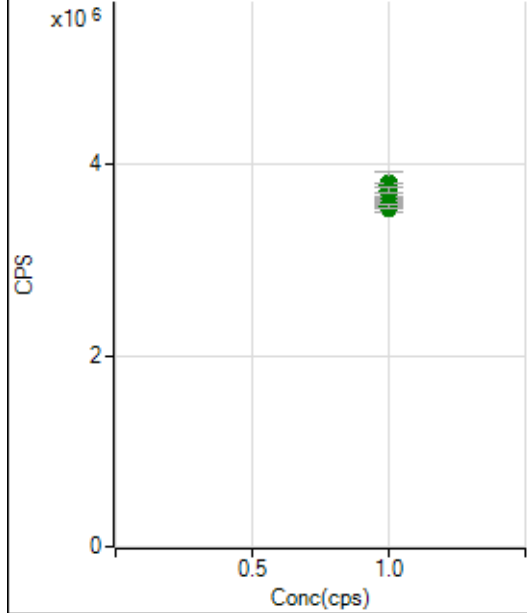
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7993673.70		A	1.6
2	☐	1.000		8204125.22		A	1.7
3	☐	1.000		8308018.21		A	1.8
4	☐	1.000		8006825.85		A	4.3
5	☐	1.000		8221925.23		A	1.3
6	☐	1.000		8978260.63		A	8.2
7	☐	1.000		8640978.62		A	1.4
8	☐	1.000		8232436.19		A	1.2

159 Tb (ISTD) [He]

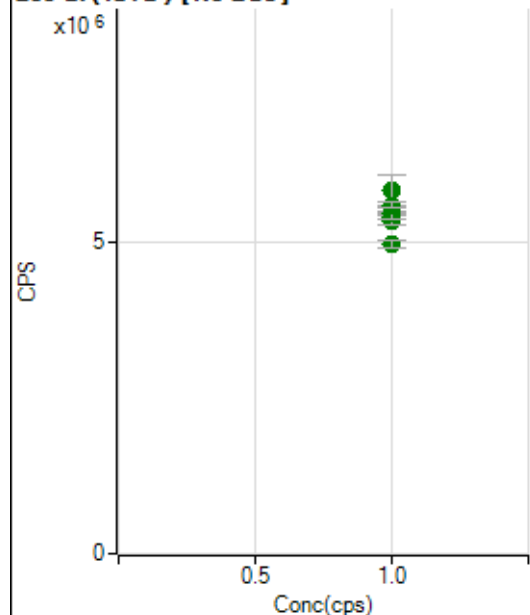
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3537800.19		A	0.8
2	☐	1.000		3504338.42		A	1.3
3	☐	1.000		3731879.80		A	6.4
4	☐	1.000		3637042.03		A	1.9
5	☐	1.000		3625046.55		A	0.3
6	☐	1.000		3438175.26		A	3.1
7	☐	1.000		3609510.99		A	1.8
8	☐	1.000		3492951.41		A	0.4

165 Ho (ISTD) [No Gas]

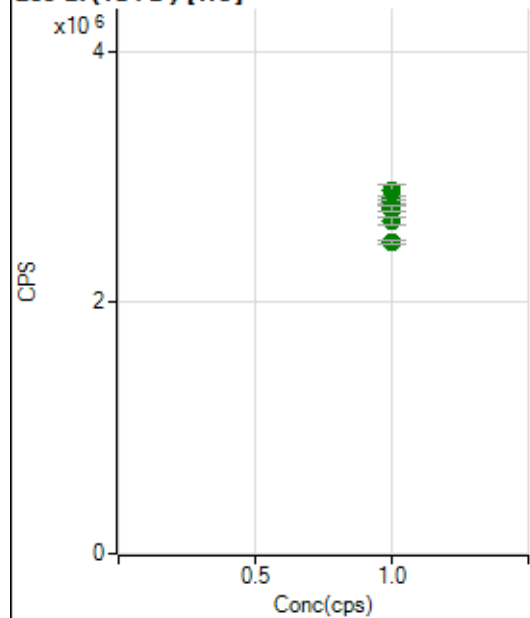
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7782721.18		A	1.7
2	☐	1.000		7992377.00		A	1.8
3	☐	1.000		8024139.24		A	2.5
4	☐	1.000		7880968.14		A	4.9
5	☐	1.000		8157464.42		A	1.8
6	☐	1.000		8719742.21		A	8.7
7	☐	1.000		8604239.51		A	1.5
8	☐	1.000		8063094.28		A	2.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3646363.24		A	0.6
2	☐	1.000		3609432.34		A	0.4
3	☐	1.000		3793569.73		A	6.9
4	☐	1.000		3752051.68		A	3.0
5	☐	1.000		3778084.28		A	1.4
6	☐	1.000		3531870.09		A	1.8
7	☐	1.000		3729362.34		A	1.7
8	☐	1.000		3563117.86		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5388722.77		A	1.6
2	☐	1.000		5457565.48		A	0.5
3	☐	1.000		5553288.32		A	0.8
4	☐	1.000		5344630.06		A	3.0
5	☐	1.000		5451917.00		A	3.3
6	☐	1.000		5811902.69		A	9.3
7	☐	1.000		5586403.46		A	1.4
8	☐	1.000		4959027.91		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2792334.85		A	1.6
2	☐	1.000		2744281.87		A	1.6
3	☐	1.000		2885937.70		A	3.3
4	☐	1.000		2834760.41		A	1.2
5	☐	1.000		2795728.60		A	1.2
6	☐	1.000		2641510.45		A	2.4
7	☐	1.000		2748739.82		A	1.8
8	☐	1.000		2475149.77		A	1.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8060223 MS.b

Acq. Date-Time 2023-06-02 11:46:55

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		10992	109922.18			1.089	5.000
24		78425	784248.62			1.064	5.000
25		10641	106407.94			0.673	5.000
26		12198	121979.01			0.618	5.000
59		61604	616035.91			0.860	5.000
113		7007	70067.03			1.422	5.000
115		86355	863553.88			1.642	5.000
206		22479	224787.76			1.625	5.000
207		20511	205105.87			1.492	5.000
208		49763	497627.43			1.079	5.000
220		0	3.90			44.780	

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

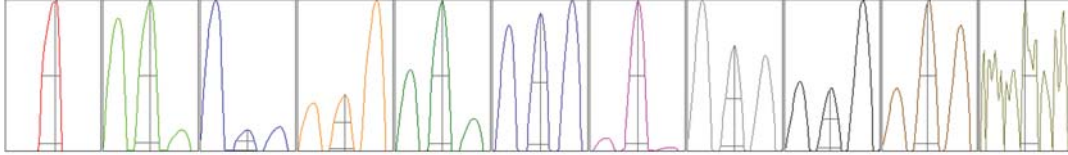
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11091	10908	10943	10872	11146
24	78955	77061	78336	78562	79210
25	10726	10559	10673	10574	10672
26	12283	12149	12193	12103	12261
59	62328	61156	61353	61182	61999
113	7012	6897	6964	6994	7167
115	88140	86110	84619	85516	87393
206	22752	22078	22124	22553	22887
207	20446	20109	20456	20584	20958
208	49789	49067	49652	49734	50572

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20784.23	9.10	8.90 - 9.10	
24	148306.25	24.00	23.90 - 24.10	
25	20092.59	25.00	24.90 - 25.10	
26	23612.92	26.00	25.90 - 26.10	
59	123517.60	59.00	58.90 - 59.10	
113	14718.86	113.05	112.90 - 113.10	
115	183653.55	115.05	114.90 - 115.10	
206	46373.07	206.00	205.90 - 206.10	
207	41727.27	206.95	206.90 - 207.10	
208	99438.14	207.95	207.90 - 208.10	
220	0.75	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.725	0.900	
24	0.55	0.771	0.900	
25	0.56	0.734	0.900	
26	0.54	0.771	0.900	
59	0.53	0.730	0.900	
113	0.49	0.683	0.900	
115	0.48	0.723	0.900	
206	0.49	0.741	0.900	
207	0.50	0.769	0.900	
208	0.51	0.774	0.900	
220	0.46	0.541		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.2 V	Deflect	15.6 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.9 mm
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EM

Discriminator	4.4 mV	Analog HV	2323 V	Pulse HV	1708 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13344	133438.11			1.389	
89		11004	110035.32			1.466	
205		16008	160077.77			1.757	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13418	13490	13024	13433	13355
89	11038	11052	10726	11052	11149
205	15951	16276	15549	16120	16144

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.2 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.9 mm
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EM

Discriminator	4.4 mV	Analog HV	2323 V	Pulse HV	1708 V
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