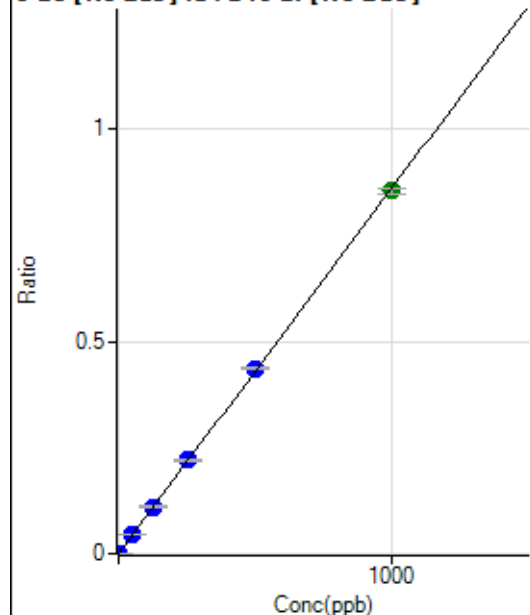


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020924 MS.b\
Analysis File: P8020924 MS.batch.bin
DA Date-Time: 2024-02-11 23:58:57
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-09 09:58:47
2	006CALS.d	S02	2024-02-09 10:05:38
3	007CALS.d	S03	2024-02-09 10:09:02
4	008CALS.d	S04	2024-02-09 10:12:20
5	009CALS.d	S05	2024-02-09 10:15:28
6	010CALS.d	S06	2024-02-09 10:18:32
7	013CALS.d	S07	2024-02-09 10:27:57
8	014CALS.d	S08	2024-02-09 10:31:01

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.74	0.0000	P	12.5
2	☐	1.000	0.990	1499.89	0.0009	P	2.3
3	☐	50.000	52.055	77058.16	0.0448	P	0.3
4	☐	125.000	128.641	184203.43	0.1106	P	1.6
5	☐	250.000	256.976	355216.75	0.2210	P	2.1
6	☐	500.000	507.817	688135.42	0.4367	P	1.7
7	☐	1000.000	993.789	1409796.55	0.8546	A	1.8
8	☐			886.59	0.0006	P	3.8

$$y = 8.5991\text{E-}004 * x + 2.7701\text{E-}005$$

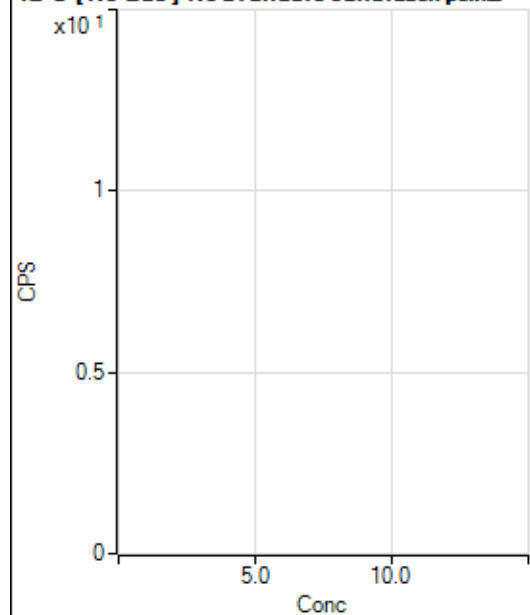
$$R = 0.9999$$

$$DL = 0.0121$$

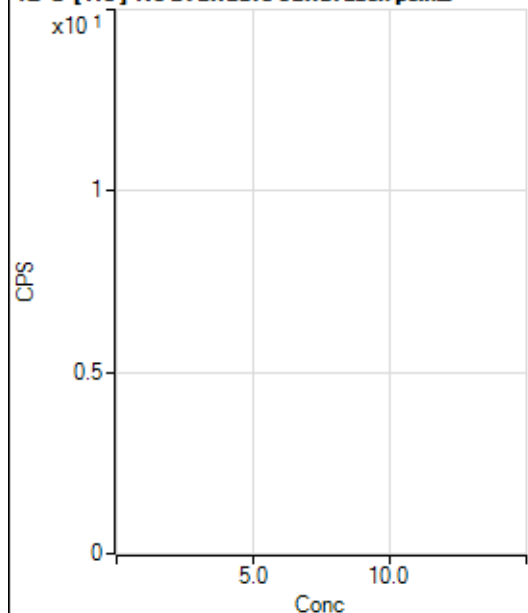
$$BEC = 0.03221$$

Weight: <None>

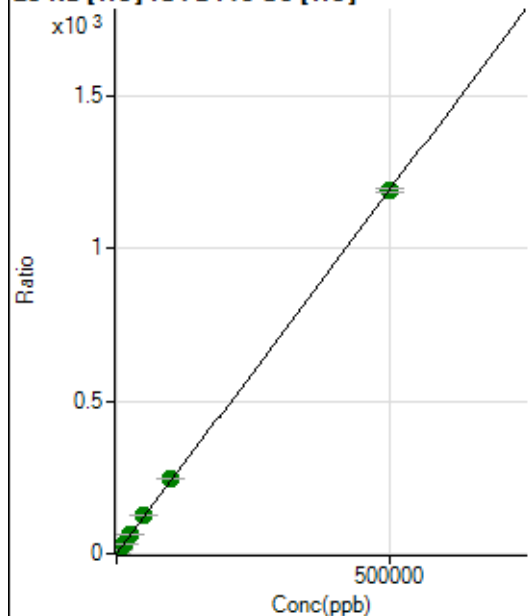
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1845421.71		A	0.8
2	☐			1796735.20		A	0.4
3	☐			1823715.98		A	0.8
4	☐			1778228.57		A	0.8
5	☐			1747525.55		A	1.4
6	☐			1819343.98		A	1.6
7	☐			2125003.13		A	3.3
8	☐			1855781.81		A	2.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24183.32		P	0.6
2	☐			23650.22		P	0.6
3	☐			23762.59		P	0.7
4	☐			23259.61		P	2.1
5	☐			23025.85		P	0.5
6	☐			24824.34		P	1.6
7	☐			30341.35		P	0.9
8	☐			30296.84		P	0.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8135.68	0.0863	P	2.7
2	☐	500.000	490.933	119810.43	1.2556	P	1.5
3	☐	5000.000	5408.603	1231162.92	12.9680	A	2.0
4	☐	12500.000	13312.545	2899882.94	31.7929	A	1.0
5	☐	25000.000	25906.855	5517731.86	61.7888	A	1.2
6	☐	50000.000	53509.399	11138165.81	127.5299	A	0.6
7	☐	100000.00	102706.58	23499316.04	244.7031	A	1.6
8	☐	500000.00	499038.00	112626700.5	1,188.647	A	1.1

$$y = 0.0024 * x + 0.0863$$

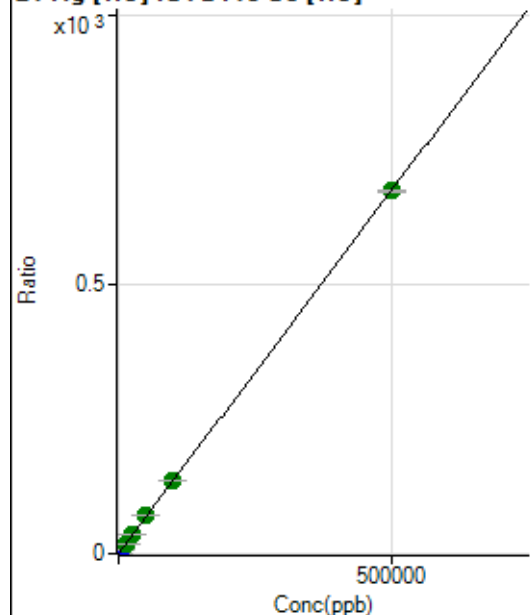
$$R = 1.0000$$

$$DL = 2.9$$

$$BEC = 36.24$$

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	123.34	0.0013	P	1.6
2	☐	500.000	495.517	63815.75	0.6688	P	1.3
3	☐	5000.000	5365.166	686253.27	7.2280	P	0.9
4	☐	12500.000	13223.977	1624749.52	17.8136	A	1.3
5	☐	25000.000	25980.162	3125213.39	34.9957	A	1.0
6	☐	50000.000	52625.818	6190697.89	70.8865	A	1.2
7	☐	100000.00	100737.11	13030736.75	135.6907	A	1.6
8	☐	500000.00	499519.24	63753859.61	672.8366	A	0.8

$$y = 0.0013 * x + 0.0013$$

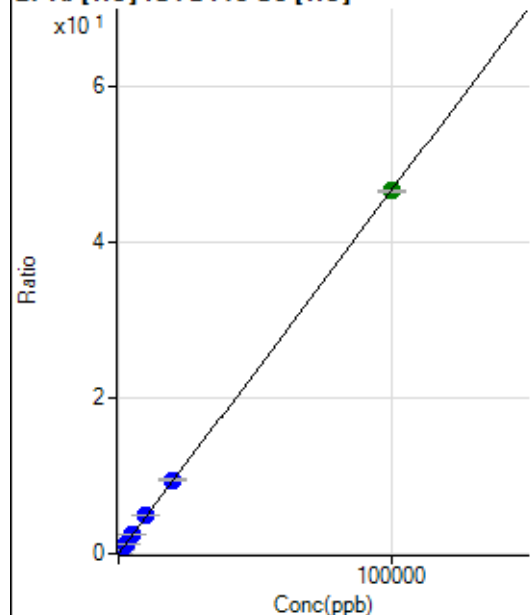
$$R = 1.0000$$

$$DL = 0.04776$$

$$BEC = 0.9712$$

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	72.22	0.0008	P	18.3
2	☐	20.000	18.715	905.60	0.0095	P	5.8
3	☐	1000.000	1053.780	46711.37	0.4920	P	0.6
4	☐	2500.000	2606.655	110901.19	1.2159	P	1.1
5	☐	5000.000	5147.524	214353.40	2.4003	P	0.4
6	☐	10000.000	10482.734	426866.96	4.8874	P	0.3
7	☐	20000.000	20305.524	909079.91	9.4664	P	1.2
8	☐	100000.00	99880.042	4411991.53	46.5607	A	0.3

$$y = 4.6616E-004 * x + 7.6516E-004$$

$$R = 1.0000$$

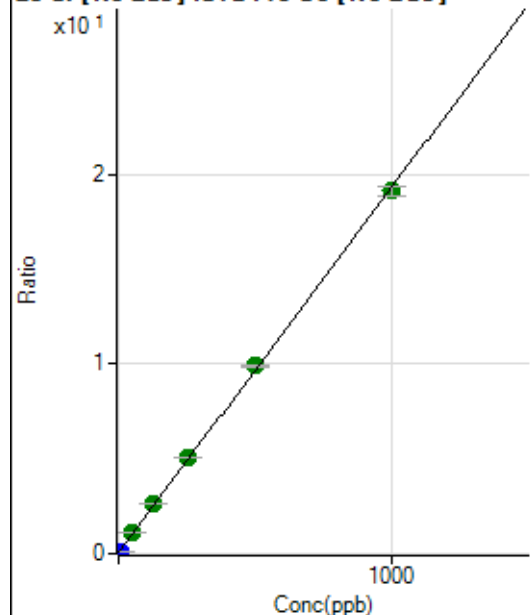
$$DL = 0.9003$$

$$BEC = 1.641$$

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	159440.75	0.0571	P	1.9
2	☐	10.000	0.371	179508.47	0.0642	P	2.5
3	☐	50.000	53.667	3064181.52	1.0904	A	1.1
4	☐	125.000	132.745	7112174.89	2.6130	A	0.6
5	☐	250.000	260.303	13511032.99	5.0691	A	1.3
6	☐	500.000	510.872	25538724.90	9.8937	A	1.0
7	☐	1000.000	990.933	53496429.20	19.1370	A	2.4
8	☐			322112.84	0.1270	P	5.3

$$y = 0.0193 * x + 0.0571$$

$$R = 0.9997$$

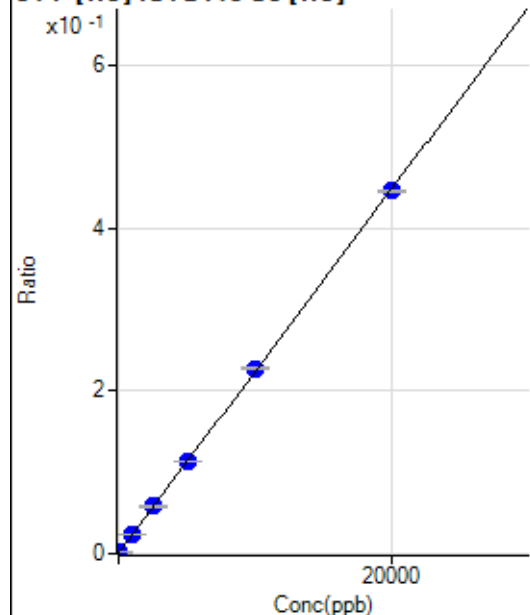
$$DL = 0.1695$$

$$BEC = 2.966$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.816	76.67	0.0008	P	44.3
2	☐	0.000	11.816	127.78	0.0013	P	6.8
3	☐	1000.000	1044.302	2319.10	0.0244	P	1.9
4	☐	2500.000	2563.655	5325.47	0.0584	P	2.5
5	☐	5000.000	5036.571	10151.39	0.1137	P	1.4
6	☐	10000.000	10150.637	19915.96	0.2280	P	1.2
7	☐	20000.000	19905.367	42843.13	0.4461	P	0.9
8	☐			100.00	0.0011	P	7.8

$$y = 2.2358E-005 * x + 0.0011$$

$$R = 1.0000$$

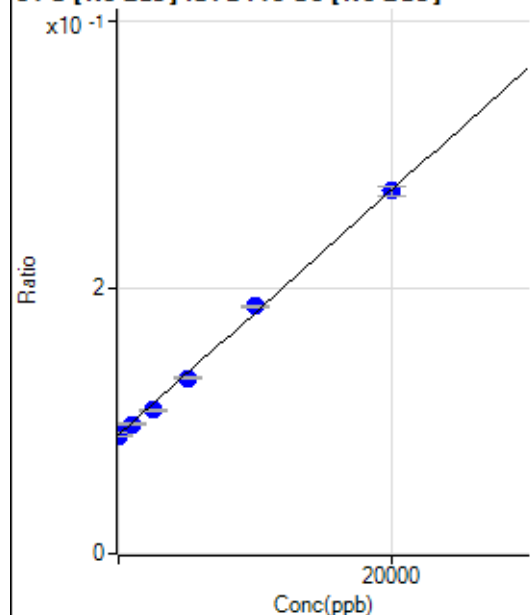
$$DL = 30.25$$

$$BEC = 48.08$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-70.281	247749.34	0.0887	P	2.1
2	☐	0.000	70.281	251530.88	0.0900	P	3.0
3	☐	1000.000	880.223	273901.13	0.0975	P	2.1
4	☐	2500.000	2050.735	294678.07	0.1083	P	1.2
5	☐	5000.000	4613.739	351450.15	0.1319	P	1.2
6	☐	10000.000	10481.552	479763.70	0.1859	P	1.1
7	☐	20000.000	19917.936	762495.95	0.2727	P	2.4
8	☐			233377.84	0.0920	P	1.3

$$y = 9.2050\text{E-}006 * x + 0.0894$$

$$R = 0.9992$$

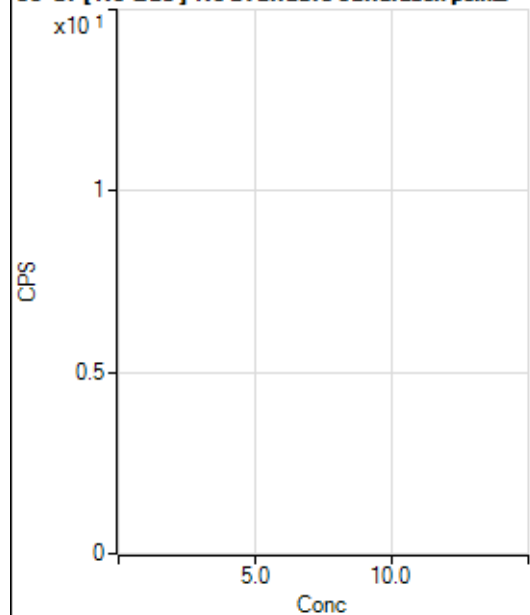
$$DL = 752.6$$

$$BEC = 9711$$

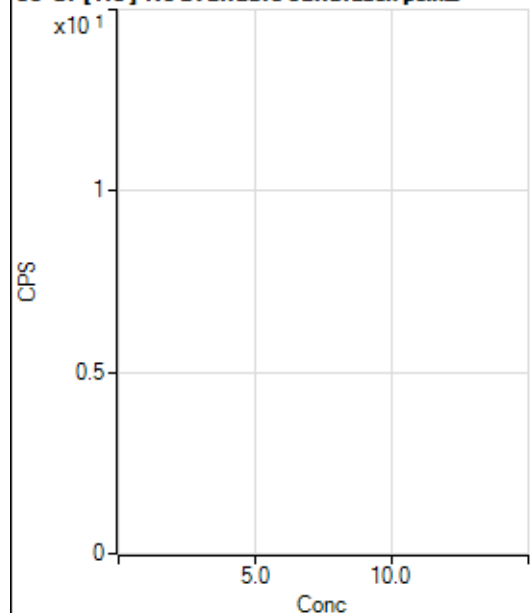
Weight: <None>

Min Conc: 0

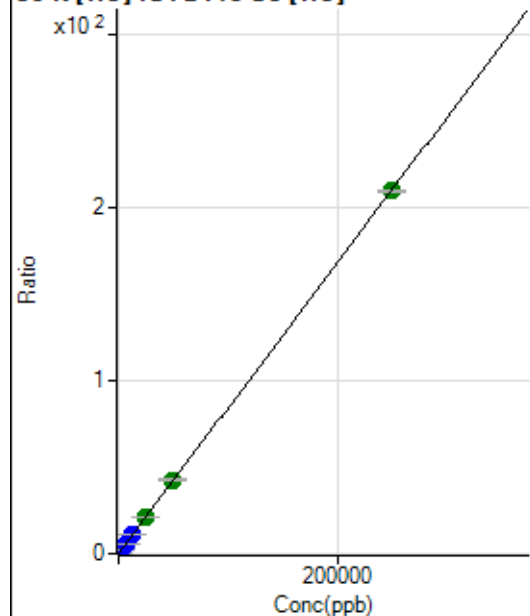
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			38785.15		P	1.0
2	☐			40425.24		P	1.0
3	☐			44060.07		P	0.8
4	☐			44365.56		P	1.9
5	☐			47284.67		P	2.0
6	☐			57222.45		P	2.3
7	☐			83395.03		P	2.6
8	☐			43968.77		P	1.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			325.56		P	12.7
2	☐			311.12		P	5.1
3	☐			326.67		P	11.8
4	☐			351.12		P	6.2
5	☐			370.01		P	9.5
6	☐			430.01		P	13.6
7	☐			662.24		P	5.8
8	☐			398.90		P	8.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6906.16	0.0733	P	1.5
2	☐	500.000	481.972	45507.20	0.4769	P	1.7
3	☐	2500.000	2624.346	215639.42	2.2712	P	0.7
4	☐	6250.000	6456.355	499853.47	5.4805	P	1.6
5	☐	12500.000	12707.086	956882.41	10.7155	P	0.9
6	☐	25000.000	25556.027	1875769.92	21.4765	A	0.5
7	☐	50000.000	50645.793	4080306.33	42.4893	A	1.8
8	☐	250000.00	249798.51	19830738.59	209.2806	A	0.4

$$y = 8.3750E-004 * x + 0.0733$$

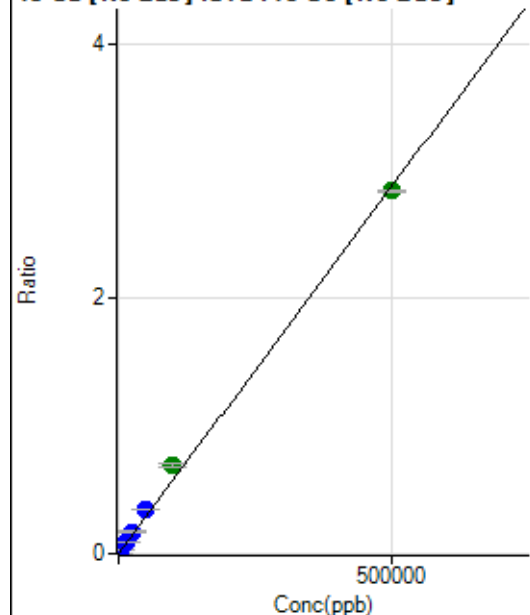
$$R = 1.0000$$

$$DL = 3.955$$

$$BEC = 87.46$$

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	133.34	0.0000	P	13.9
2	☐	500.000	496.126	8111.26	0.0029	P	1.3
3	☐	5000.000	6168.126	99810.33	0.0355	P	1.0
4	☐	12500.000	15200.168	238049.60	0.0875	P	0.8
5	☐	25000.000	29975.869	459571.81	0.1724	P	1.6
6	☐	50000.000	60699.972	901155.33	0.3491	P	0.8
7	☐	100000.00	120943.75	1943962.23	0.6956	A	4.1
8	☐	500000.00	494413.27	7212297.60	2.8433	A	0.8

$$y = 5.7507\text{E-}006 * x + 4.7625\text{E-}005$$

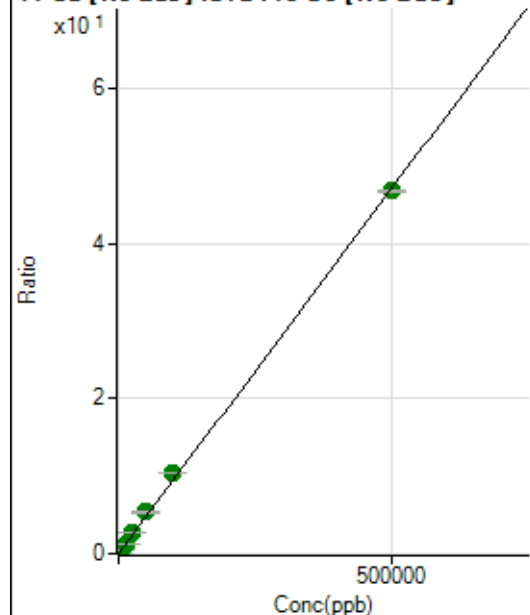
$$R = 0.9989$$

$$DL = 3.458$$

$$BEC = 8.282$$

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	23441.49	0.0084	P	1.8
2	☐	500.000	491.091	152516.11	0.0546	P	0.8
3	☐	5000.000	5856.228	1570869.39	0.5590	A	1.0
4	☐	12500.000	14191.456	3654205.71	1.3426	A	0.8
5	☐	25000.000	28153.517	7077894.68	2.6553	A	0.6
6	☐	50000.000	56775.952	13800677.43	5.3462	A	0.9
7	☐	100000.00	110280.36	29016523.46	10.3765	A	1.0
8	☐	500000.00	497057.81	118561509.3	46.7396	A	0.5

$$y = 9.4016\text{E-}005 * x + 0.0084$$

$$R = 0.9997$$

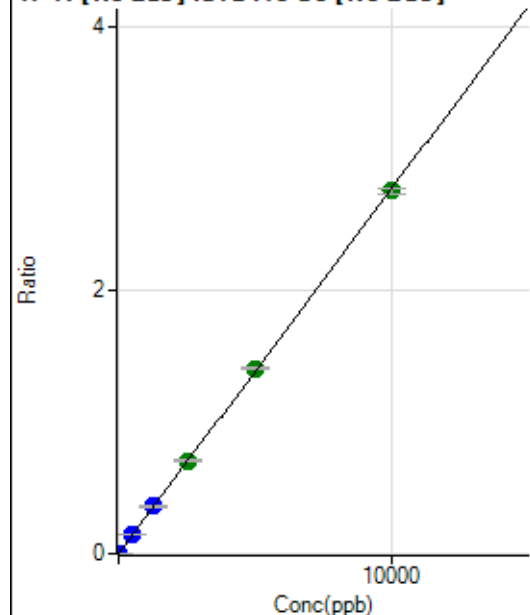
$$DL = 4.848$$

$$BEC = 89.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	65.56	0.0000	P	13.9
2	☐	5.000	4.952	3899.45	0.0014	P	1.0
3	☐	500.000	521.483	406019.10	0.1445	P	0.4
4	☐	1250.000	1295.564	976723.89	0.3589	P	0.9
5	☐	2500.000	2554.373	1885908.79	0.7075	A	1.1
6	☐	5000.000	5072.547	3626401.16	1.4050	A	1.4
7	☐	10000.000	9943.363	7699810.09	2.7541	A	1.9
8	☐			4748.64	0.0019	P	3.9

$$y = 2.7697\text{E-}004 * x + 2.3440\text{E-}005$$

$$R = 0.9999$$

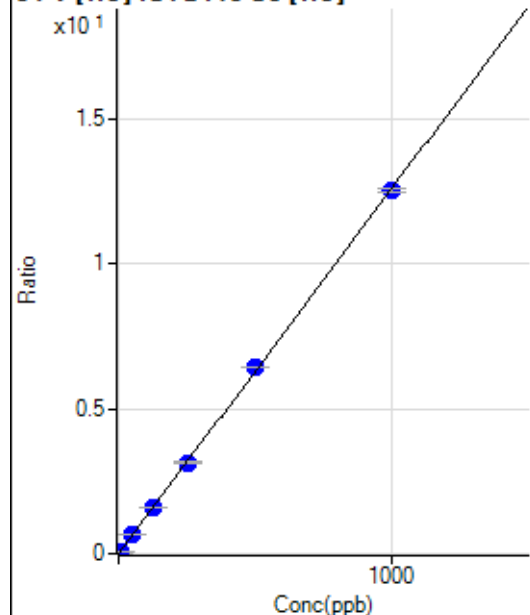
$$DL = 0.0354$$

$$BEC = 0.08463$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.67	0.0001	P	49.3
2	☐	5.000	4.915	5901.27	0.0618	P	2.6
3	☐	50.000	51.561	61534.97	0.6481	P	1.1
4	☐	125.000	126.424	144935.56	1.5891	P	0.9
5	☐	250.000	250.193	280824.75	3.1447	P	0.8
6	☐	500.000	510.255	560137.02	6.4134	P	0.5
7	☐	1000.000	994.569	1200484.25	12.5008	P	1.2
8	☐			513.35	0.0054	P	6.4

$$y = 0.0126 * x + 7.0592\text{E-}005$$

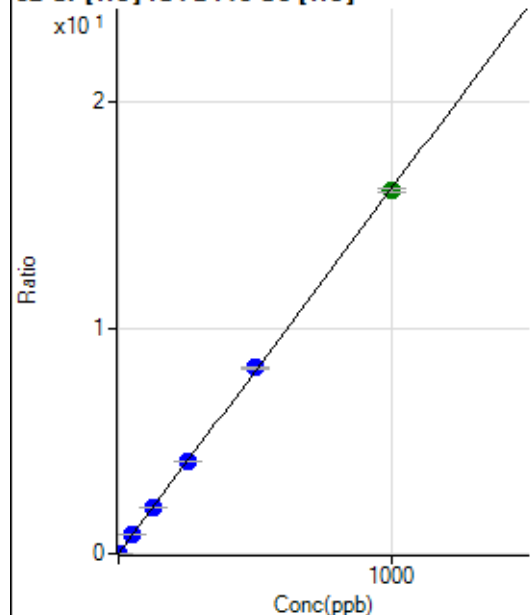
$$R = 0.9999$$

$$DL = 0.008309$$

$$BEC = 0.005616$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	750.03	0.0080	P	6.7
2	☐	2.000	2.024	3882.79	0.0407	P	2.3
3	☐	50.000	52.184	80898.20	0.8521	P	0.9
4	☐	125.000	126.541	187421.40	2.0548	P	0.4
5	☐	250.000	253.962	367552.32	4.1160	P	0.5
6	☐	500.000	509.730	720773.70	8.2532	P	1.3
7	☐	1000.000	993.843	1544657.51	16.0841	A	1.1
8	☐			23546.13	0.2485	P	0.8

$$y = 0.0162 * x + 0.0080$$

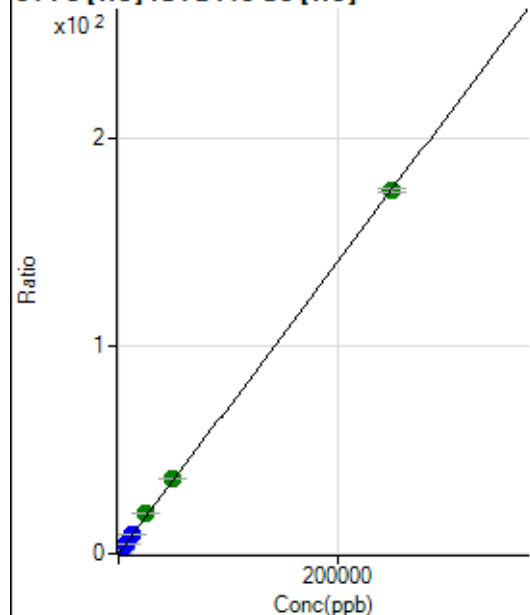
$$R = 0.9999$$

$$DL = 0.09952$$

$$BEC = 0.4917$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	235.56	0.0025	P	6.8
2	☐	50.000	53.019	3788.32	0.0397	P	1.7
3	☐	2500.000	2752.283	183583.17	1.9336	P	0.5
4	☐	6250.000	6831.027	437375.18	4.7954	P	1.0
5	☐	12500.000	13491.890	845528.02	9.4688	P	1.3
6	☐	25000.000	27351.318	1676214.89	19.1930	A	1.3
7	☐	50000.000	51697.536	3483606.48	36.2751	A	1.3
8	☐	250000.00	249358.71	16578286.84	174.9604	A	1.2

$$y = 7.0163E-004 * x + 0.0025$$

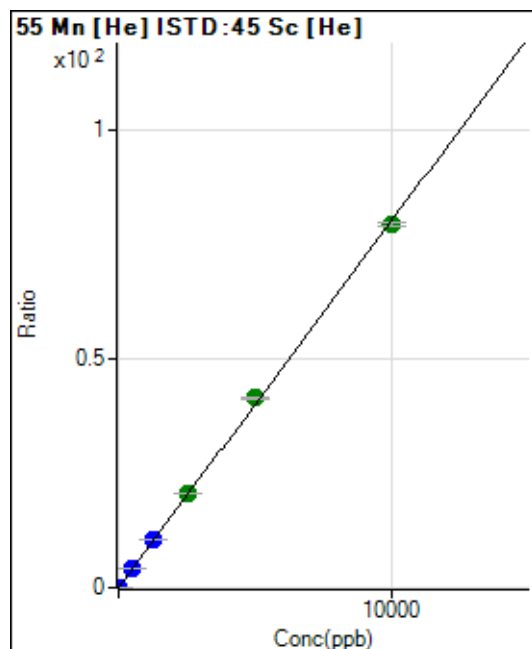
$$R = 0.9999$$

$$DL = 0.7246$$

$$BEC = 3.563$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	53.33	0.0006	P	21.7
2	☐	1.000	1.008	823.37	0.0086	P	7.2
3	☐	500.000	525.125	398871.87	4.2012	P	0.8
4	☐	1250.000	1301.065	949336.14	10.4082	P	0.4
5	☐	2500.000	2577.844	1841454.37	20.6215	A	0.7
6	☐	5000.000	5164.246	3608010.02	41.3109	A	0.6
7	☐	10000.000	9890.777	7598165.58	79.1198	A	1.1
8	☐			6457.07	0.0681	P	1.8

$$y = 0.0080 * x + 5.6575E-004$$

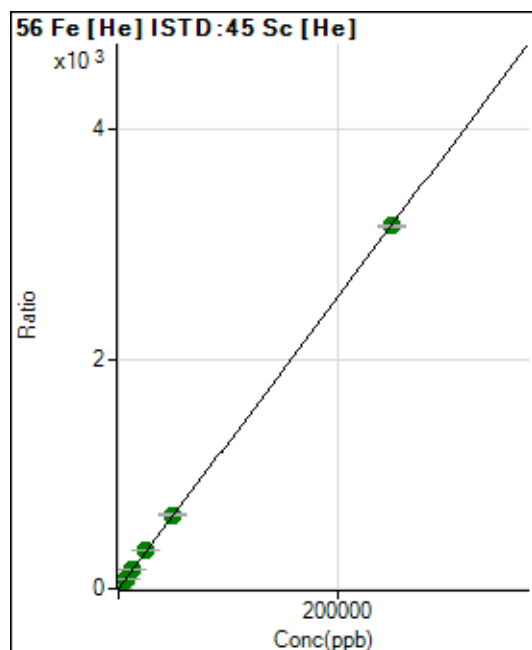
$$R = 0.9998$$

$$DL = 0.04597$$

$$BEC = 0.07073$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1082.27	0.0115	P	8.5
2	☐	50.000	51.440	63291.90	0.6633	P	0.5
3	☐	2500.000	2741.737	3299390.09	34.7520	A	1.4
4	☐	6250.000	6678.180	7719309.95	84.6305	A	0.4
5	☐	12500.000	13108.297	14833444.78	166.1064	A	0.4
6	☐	25000.000	26641.846	29483948.73	337.5897	A	0.7
7	☐	50000.000	50755.888	61762762.41	643.1381	A	1.0
8	☐	250000.00	249641.10	299722739.9	3,163.207	A	0.8

$$y = 0.0127 * x + 0.0115$$

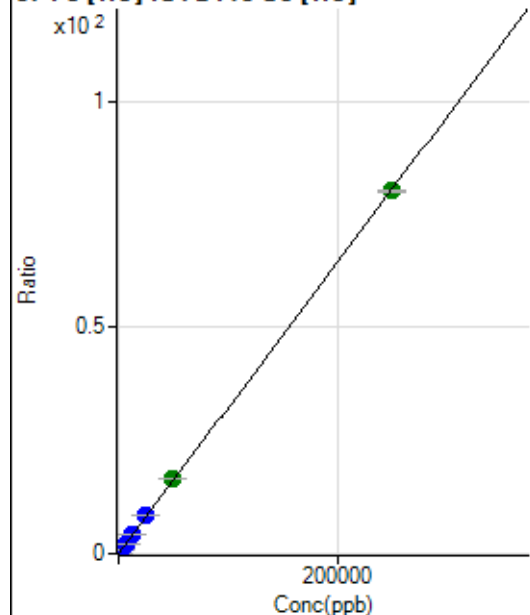
$$R = 1.0000$$

$$DL = 0.2319$$

$$BEC = 0.9065$$

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	56.67	0.0006	P	42.8
2	☐	50.000	51.179	1626.78	0.0170	P	2.9
3	☐	2500.000	2763.440	84364.73	0.8886	P	1.6
4	☐	6250.000	6738.216	197536.97	2.1658	P	0.8
5	☐	12500.000	13276.574	381040.53	4.2668	P	0.7
6	☐	25000.000	26838.998	753325.43	8.6249	P	0.2
7	☐	50000.000	51635.164	1593436.66	16.5927	A	1.4
8	☐	250000.00	249435.39	7595404.33	80.1524	A	0.5

$$y = 3.2133\text{E-}004 * x + 6.0241\text{E-}004$$

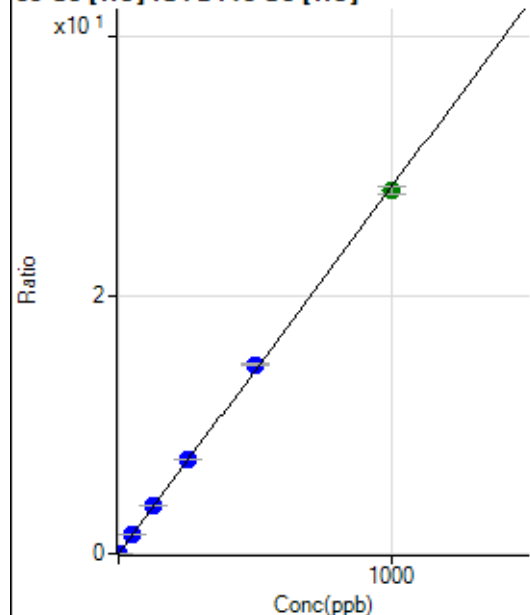
$$R = 1.0000$$

$$DL = 2.409$$

$$BEC = 1.875$$

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	46.67	0.0005	P	37.1
2	☐	1.000	1.031	2838.09	0.0297	P	2.1
3	☐	50.000	52.878	142525.74	1.5012	P	1.8
4	☐	125.000	131.081	339352.92	3.7206	P	0.4
5	☐	250.000	257.563	652769.94	7.3102	P	1.2
6	☐	500.000	516.158	1279375.48	14.6492	P	1.0
7	☐	1000.000	989.126	2695780.41	28.0721	A	2.2
8	☐			6688.29	0.0706	P	2.0

$$y = 0.0284 * x + 4.9506\text{E-}004$$

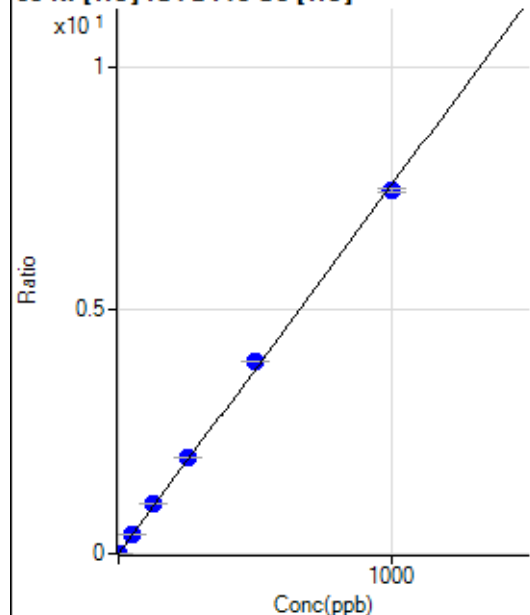
$$R = 0.9998$$

$$DL = 0.01943$$

$$BEC = 0.01744$$

Weight: <None>

Min Conc: 0

⁶⁰Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.44	0.0006	P	40.8
2	☐	1.000	1.088	840.03	0.0088	P	5.1
3	☐	50.000	54.299	39038.96	0.4112	P	0.6
4	☐	125.000	134.303	92680.67	1.0161	P	0.8
5	☐	250.000	260.943	176248.97	1.9738	P	1.2
6	☐	500.000	522.639	345236.18	3.9526	P	0.4
7	☐	1000.000	984.567	715030.74	7.4456	P	0.9
8	☐			7346.40	0.0775	P	2.4

$$y = 0.0076 * x + 5.7771E-004$$

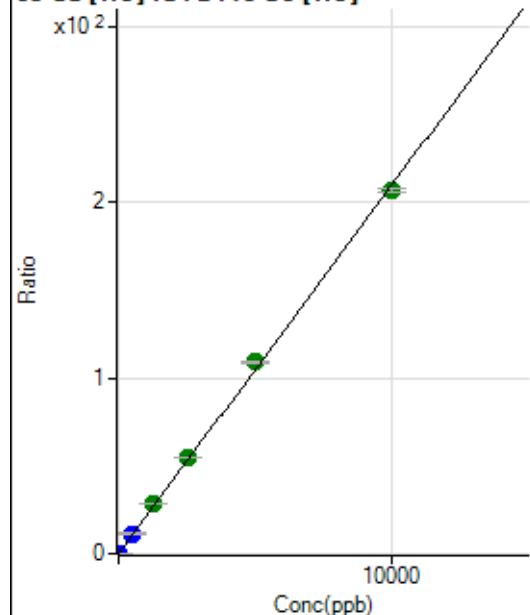
$$R = 0.9995$$

$$DL = 0.09359$$

$$BEC = 0.0764$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	580.02	0.0062	P	6.5
2	☐	2.000	2.043	4673.04	0.0490	P	1.6
3	☐	500.000	546.501	1088101.41	11.4605	P	0.9
4	☐	1250.000	1363.005	2606051.91	28.5739	A	1.6
5	☐	2500.000	2616.792	4898150.45	54.8524	A	1.0
6	☐	5000.000	5200.421	9520029.37	109.0037	A	0.8
7	☐	10000.000	9854.141	19834996.93	206.5427	A	1.1
8	☐			7774.42	0.0821	P	5.9

$$y = 0.0210 * x + 0.0062$$

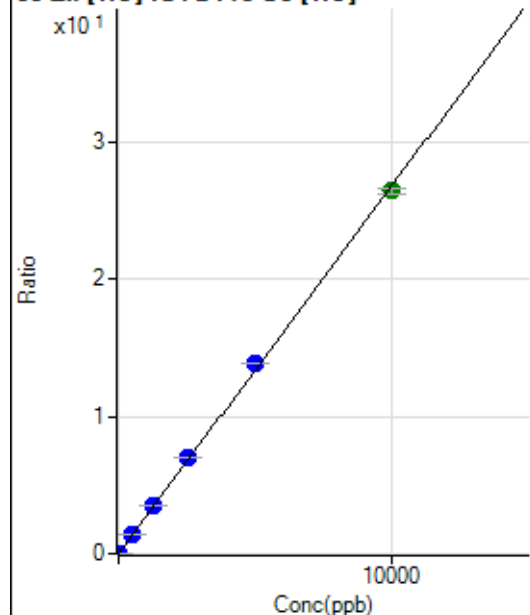
$$R = 0.9996$$

$$DL = 0.05725$$

$$BEC = 0.2936$$

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	203.34	0.0022	P	9.3
2	☐	2.000	5.251	1545.66	0.0162	P	3.5
3	☐	500.000	541.441	137651.18	1.4499	P	1.7
4	☐	1250.000	1325.506	323451.54	3.5463	P	0.6
5	☐	2500.000	2609.675	623272.74	6.9799	P	1.4
6	☐	5000.000	5173.882	1208426.08	13.8361	P	0.5
7	☐	10000.000	9874.129	2535595.88	26.4036	A	1.4
8	☐			4177.32	0.0441	P	4.4

$$y = 0.0027 * x + 0.0022$$

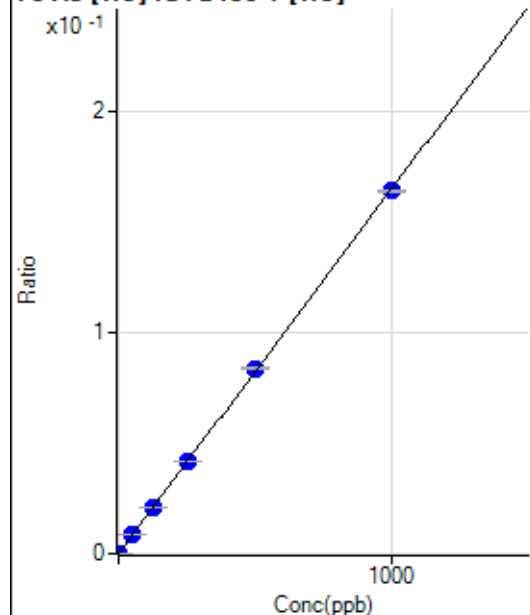
$$R = 0.9997$$

$$DL = 0.2241$$

$$BEC = 0.8072$$

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	3.33	0.0000	P	99.9
2	☐	1.000	0.881	122.22	0.0001	P	26.9
3	☐	50.000	51.779	7014.03	0.0085	P	2.1
4	☐	125.000	127.146	16646.60	0.0210	P	1.5
5	☐	250.000	253.661	32425.06	0.0418	P	1.0
6	☐	500.000	506.890	63106.07	0.0836	P	1.2
7	☐	1000.000	995.282	134048.44	0.1642	P	0.3
8	☐			75.55	0.0001	P	26.8

$$y = 1.6496E-004 * x + 4.1580E-006$$

$$R = 1.0000$$

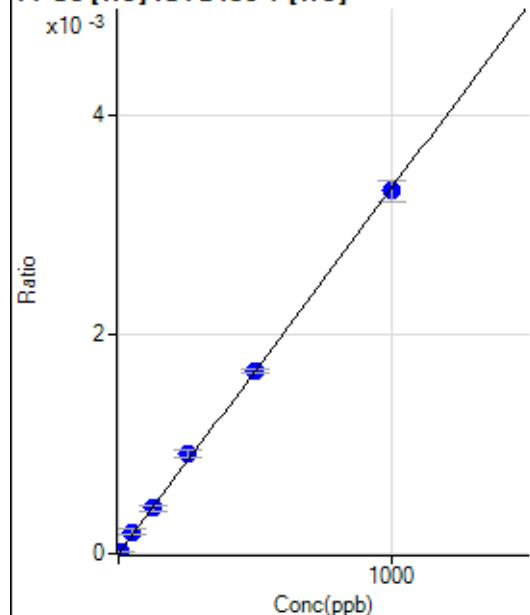
$$DL = 0.07555$$

$$BEC = 0.02521$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.076	11.11	0.0000	P	18.1
3	☐	50.000	60.072	164.45	0.0002	P	27.7
4	☐	125.000	124.552	330.01	0.0004	P	10.0
5	☐	250.000	274.155	708.92	0.0009	P	6.4
6	☐	500.000	501.161	1262.29	0.0017	P	2.3
7	☐	1000.000	992.938	2705.84	0.0033	P	5.8
8	☐			2.22	0.0000	P	86.6

$$y = 3.3377\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

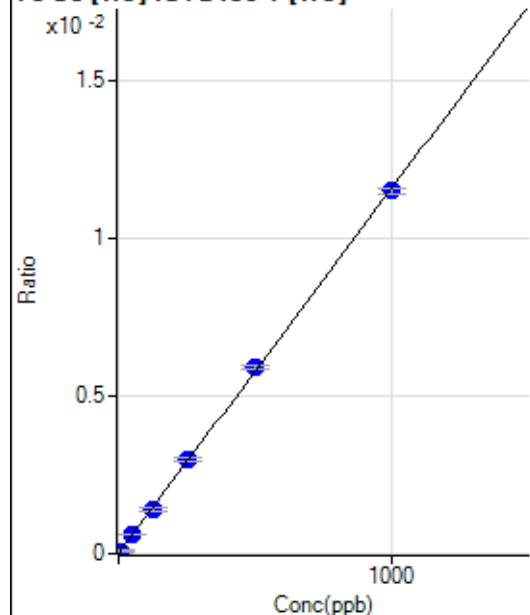
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.56	0.0000	P	54.3
2	☐	5.000	6.070	73.33	0.0001	P	30.9
3	☐	50.000	50.191	492.24	0.0006	P	6.1
4	☐	125.000	120.414	1120.06	0.0014	P	10.8
5	☐	250.000	256.412	2312.43	0.0030	P	5.0
6	☐	500.000	510.939	4472.98	0.0059	P	1.7
7	☐	1000.000	993.486	9394.31	0.0115	P	1.6
8	☐			14.44	0.0000	P	54.4

$$y = 1.1563\text{E-}005 * x + 1.9368\text{E-}005$$

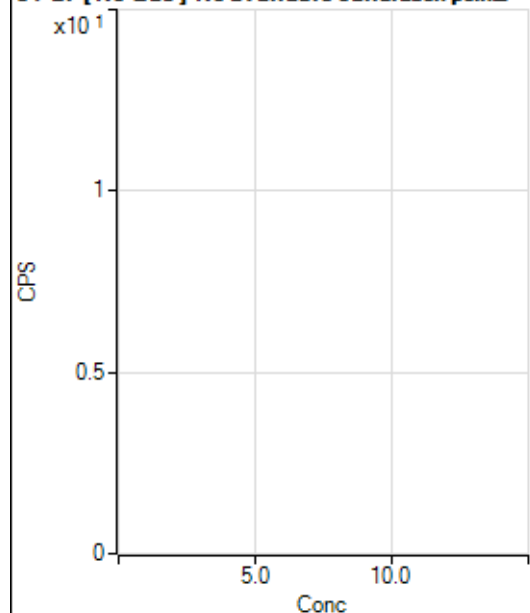
$$R = 0.9999$$

$$DL = 2.728$$

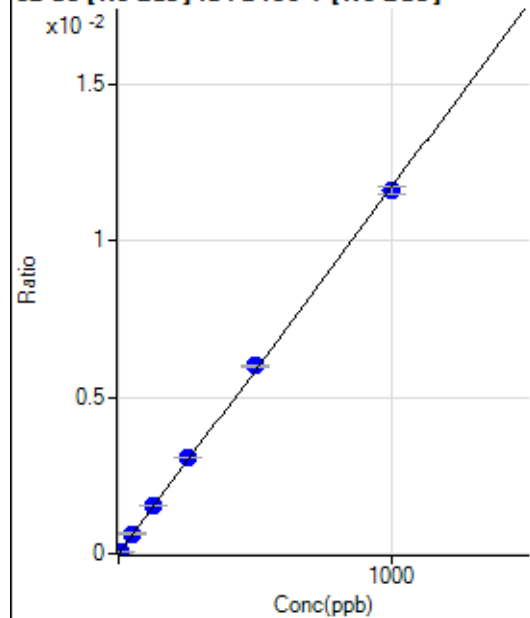
$$BEC = 1.675$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2007.94		P	5.9
2	☐			1970.16		P	3.4
3	☐			1897.93		P	3.6
4	☐			1771.24		P	4.3
5	☐			1734.57		P	0.3
6	☐			1876.81		P	5.9
7	☐			1909.04		P	5.5
8	☐			1844.58		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-7.78	0.0000	P	-376.
2	☐	5.000	4.693	416.68	0.0001	P	5.8
3	☐	50.000	54.736	5037.68	0.0006	P	2.5
4	☐	125.000	129.789	11659.49	0.0015	P	1.9
5	☐	250.000	263.461	23264.05	0.0031	P	1.0
6	☐	500.000	511.722	44260.15	0.0060	P	1.1
7	☐	1000.000	989.940	90538.21	0.0116	P	2.3
8	☐			57.78	0.0000	P	20.9

$$y = 1.1714E-005 * x - 1.0864E-006$$

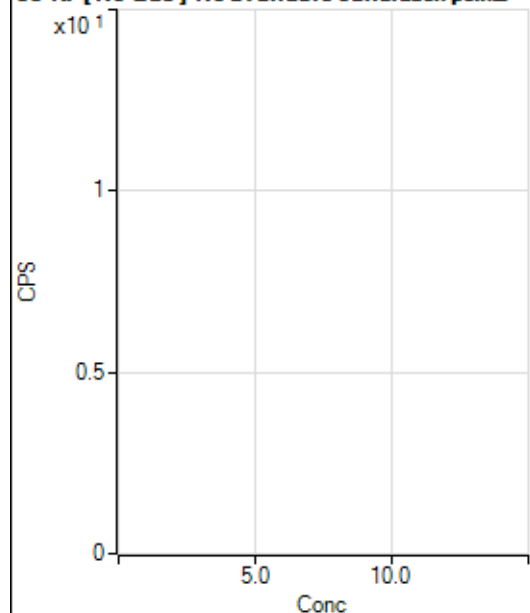
$$R = 0.9998$$

$$DL = 1.046$$

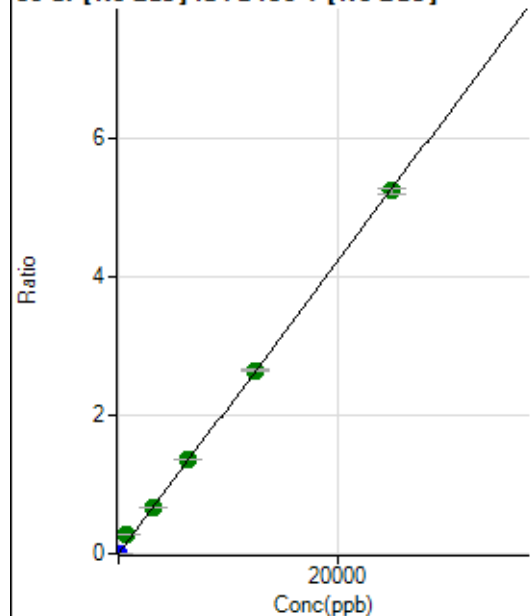
$$BEC = -0.09274$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			167.78		P	4.6
2	☐			163.34		P	10.6
3	☐			171.12		P	15.6
4	☐			127.78		P	9.2
5	☐			140.00		P	6.3
6	☐			146.67		P	25.6
7	☐			182.23		P	12.2
8	☐			145.56		P	19.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	318.89	0.0000	P	14.5
2	☐	1.000	0.994	1943.49	0.0003	P	1.0
3	☐	625.000	1307.331	2171439.06	0.2759	A	2.6
4	☐	3125.000	3206.066	5192244.96	0.6765	A	0.7
5	☐	6250.000	6452.036	10266060.47	1.3613	A	1.0
6	☐	12500.000	12585.570	19609867.07	2.6555	A	1.7
7	☐	25000.000	24879.514	40992565.22	5.2493	A	1.9
8	☐			25776.28	0.0036	P	3.9

$$y = 2.1099E-004 * x + 4.1352E-005$$

$$R = 0.9997$$

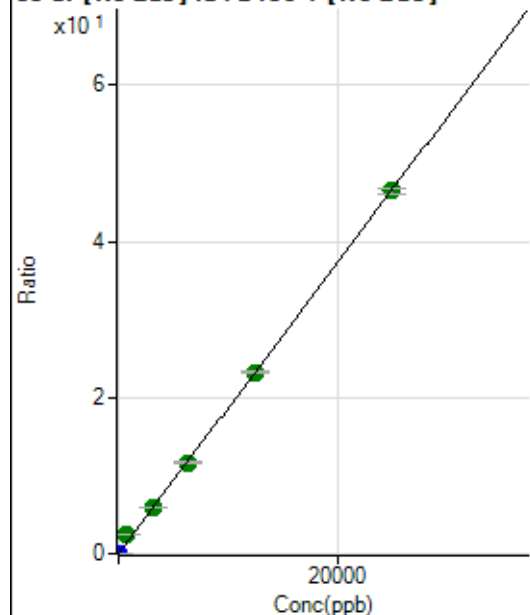
$$DL = 0.08513$$

$$BEC = 0.196$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	575.57	0.0001	P	10.2
2	☐	1.000	0.977	14636.65	0.0019	P	0.3
3	☐	625.000	1271.555	18608723.89	2.3646	A	0.2
4	☐	3125.000	3147.234	44917112.67	5.8524	A	0.4
5	☐	6250.000	6283.578	88116362.02	11.6845	A	1.1
6	☐	12500.000	12481.596	171410621.8	23.2098	A	0.7
7	☐	25000.000	24981.865	362789767.9	46.4543	A	1.9
8	☐			231346.41	0.0320	P	2.2

$$y = 0.0019 * x + 7.4339E-005$$

$$R = 0.9997$$

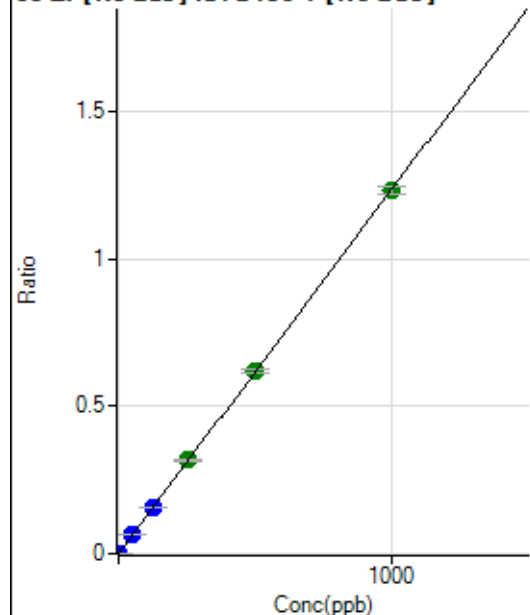
$$DL = 0.01219$$

$$BEC = 0.03998$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	261.12	0.0000	P	3.0
2	☐	1.000	0.919	9048.56	0.0012	P	1.9
3	☐	50.000	51.371	499159.01	0.0634	P	0.4
4	☐	125.000	127.361	1206520.87	0.1572	P	1.1
5	☐	250.000	256.696	2389116.53	0.3168	A	1.1
6	☐	500.000	502.207	4576870.38	0.6198	A	1.7
7	☐	1000.000	996.859	9606349.93	1.2302	A	2.3
8	☐			5523.44	0.0008	P	3.8

$$y = 0.0012 * x + 3.3802E-005$$

$$R = 1.0000$$

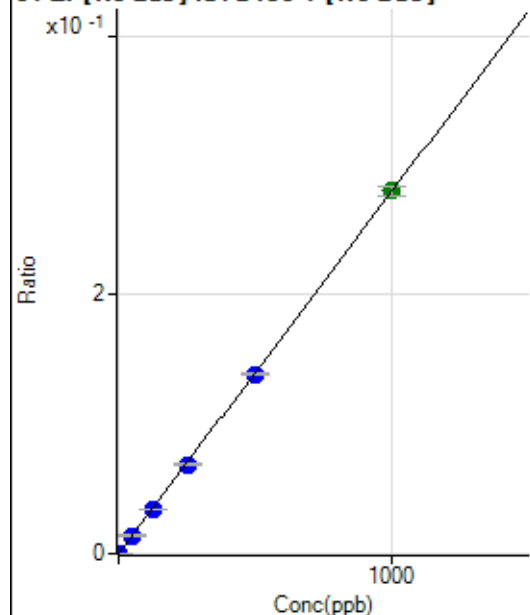
$$DL = 0.0025$$

$$BEC = 0.02739$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57.78	0.0000	P	27.4
2	☐	1.000	0.920	2050.17	0.0003	P	5.0
3	☐	50.000	50.452	111044.08	0.0141	P	1.3
4	☐	125.000	124.227	266609.45	0.0347	P	0.2
5	☐	250.000	246.818	520420.19	0.0690	P	0.3
6	☐	500.000	495.883	1023846.22	0.1386	P	1.7
7	☐	1000.000	1002.928	2189341.32	0.2804	A	2.7
8	☐			1327.86	0.0002	P	7.4

$$y = 2.7957\text{E-}004 * x + 7.4893\text{E-}006$$

$$R = 1.0000$$

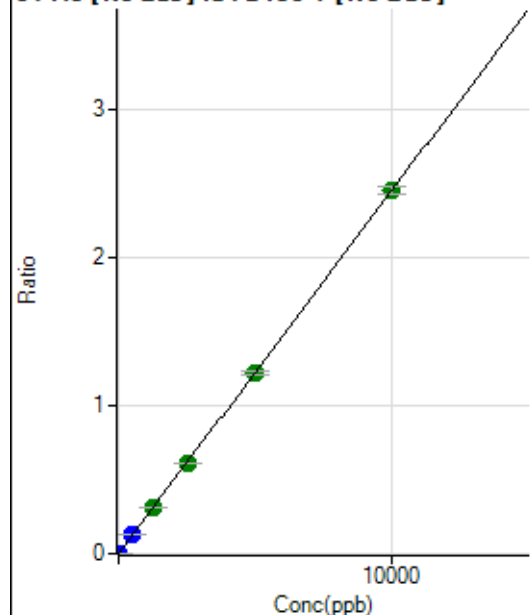
$$DL = 0.02205$$

$$BEC = 0.02679$$

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	92.22	0.0000	P	6.2
2	☐	5.000	5.482	10477.38	0.0014	P	1.8
3	☐	500.000	517.837	997220.57	0.1267	P	0.8
4	☐	1250.000	1289.169	2421272.45	0.3155	A	1.0
5	☐	2500.000	2495.392	4604669.06	0.6106	A	1.1
6	☐	5000.000	4988.564	9014062.99	1.2206	A	1.9
7	☐	10000.000	10001.082	19109480.13	2.4471	A	2.0
8	☐			12887.35	0.0018	P	5.8

$$y = 2.4469\text{E-}004 * x + 1.1929\text{E-}005$$

$$R = 1.0000$$

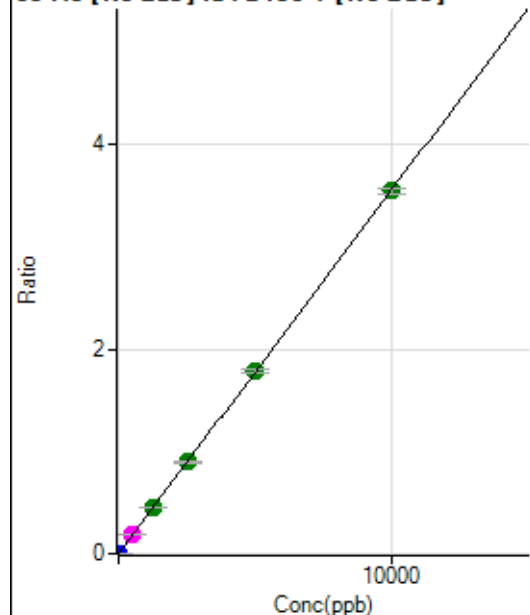
$$DL = 0.009124$$

$$BEC = 0.04875$$

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	22.22	0.0000	P	32.5
2	☐	5.000	4.720	13005.06	0.0017	P	0.7
3	☐	500.000	513.756	1436684.93	0.1826	M	0.6
4	☐	1250.000	1261.976	3441896.13	0.4485	A	1.1
5	☐	2500.000	2523.971	6764102.75	0.8969	A	2.3
6	☐	5000.000	5026.147	13189700.08	1.7861	A	1.9
7	☐	10000.000	9978.749	27691941.81	3.5460	A	1.7
8	☐			18862.35	0.0026	P	2.6

$$y = 3.5536\text{E-}004 * x + 2.8571\text{E-}006$$

$$R = 1.0000$$

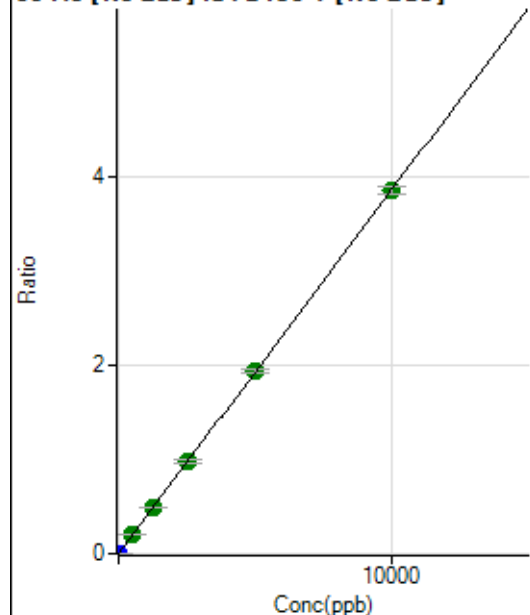
$$DL = 0.00784$$

$$BEC = 0.00804$$

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	81.11	0.0000	P	8.9
2	☐	5.000	4.828	14499.89	0.0019	P	1.5
3	☐	500.000	513.224	1558077.39	0.1980	A	2.4
4	☐	1250.000	1252.464	3709237.76	0.4833	A	0.9
5	☐	2500.000	2535.154	7377033.71	0.9782	A	2.4
6	☐	5000.000	5022.126	14309734.09	1.9378	A	2.1
7	☐	10000.000	9979.179	30070054.55	3.8504	A	2.0
8	☐			20613.61	0.0029	P	0.8

$$y = 3.8585\text{E-}004 * x + 1.0487\text{E-}005$$

$$R = 1.0000$$

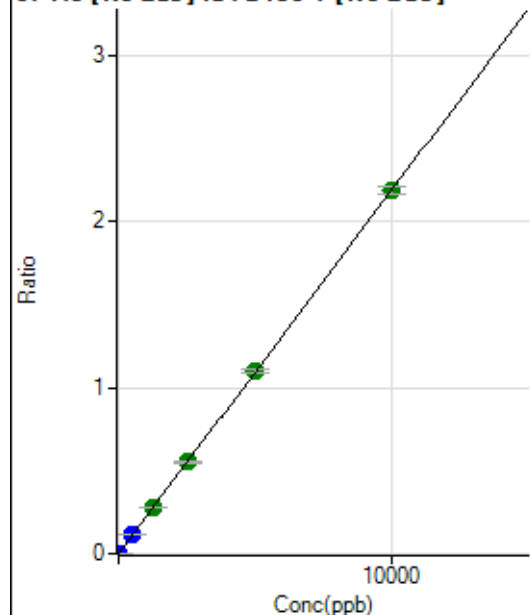
$$DL = 0.007278$$

$$BEC = 0.02718$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	23.9
2	☐	5.000	4.823	8169.14	0.0011	P	2.3
3	☐	500.000	516.668	888041.98	0.1129	P	0.7
4	☐	1250.000	1265.016	2120602.62	0.2763	A	0.9
5	☐	2500.000	2526.725	4162020.18	0.5519	A	2.6
6	☐	5000.000	5008.524	8078527.03	1.0940	A	2.1
7	☐	10000.000	9986.347	17033415.17	2.1812	A	2.0
8	☐			11562.85	0.0016	P	4.3

$$y = 2.1842\text{E-}004 * x + 1.7234\text{E-}006$$

$$R = 1.0000$$

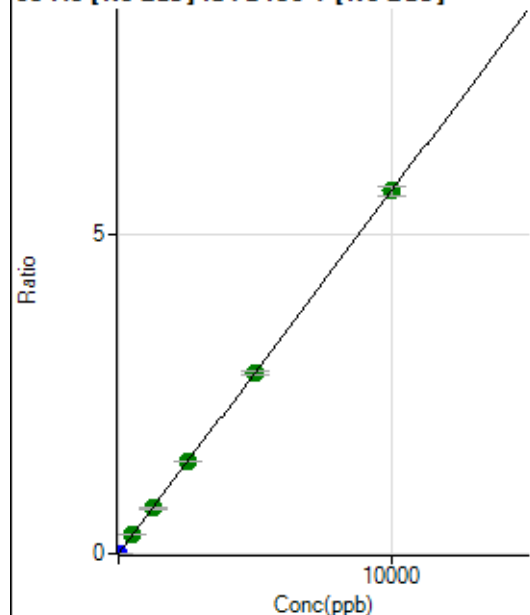
$$DL = 0.005656$$

$$BEC = 0.00789$$

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	44.44	0.0000	P	39.7
2	☐	5.000	4.684	20639.93	0.0027	P	1.7
3	☐	500.000	518.200	2316671.51	0.2944	A	0.5
4	☐	1250.000	1255.615	5473272.97	0.7132	A	1.9
5	☐	2500.000	2541.687	10887859.98	1.4438	A	1.4
6	☐	5000.000	4975.916	20872283.02	2.8265	A	2.2
7	☐	10000.000	10000.009	44354539.34	5.6803	A	2.5
8	☐			30675.87	0.0042	P	6.0

$$y = 5.6803\text{E-}004 * x + 5.7364\text{E-}006$$

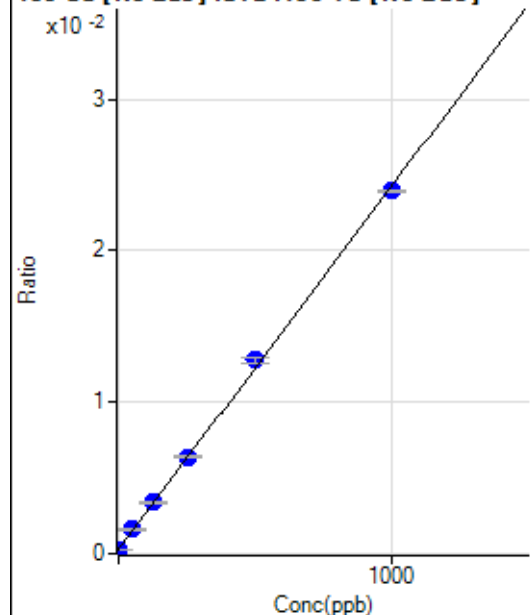
$$R = 1.0000$$

$$DL = 0.01204$$

$$BEC = 0.0101$$

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	1715.68	0.0003	P	2.0
2	☐	1.000	0.950	1855.70	0.0003	P	2.9
3	☐	50.000	55.197	9898.07	0.0016	P	3.6
4	☐	125.000	128.821	20603.24	0.0034	P	1.8
5	☐	250.000	254.378	38702.03	0.0064	P	1.9
6	☐	500.000	521.135	75956.76	0.0128	P	2.2
7	☐	1000.000	987.601	150854.32	0.0240	P	0.5
8	☐			1724.57	0.0003	P	4.9

$$y = 2.3972\text{E-}005 * x + 2.8155\text{E-}004$$

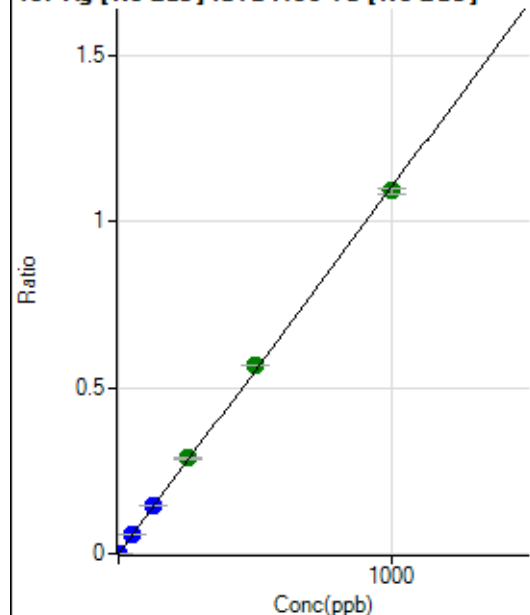
$$R = 0.9997$$

$$DL = 0.6915$$

$$BEC = 11.75$$

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	35.55	0.0000	P	31.0
2	☐	1.000	0.976	6591.64	0.0011	P	3.1
3	☐	50.000	53.909	366186.66	0.0594	P	0.6
4	☐	125.000	131.110	883135.57	0.1444	P	1.2
5	☐	250.000	259.812	1736234.94	0.2862	A	1.8
6	☐	500.000	513.114	3361432.76	0.5652	A	0.5
7	☐	1000.000	990.031	6867005.38	1.0906	A	1.7
8	☐			4012.87	0.0007	P	5.6

$$y = 0.0011 * x + 5.8466\text{E-}006$$

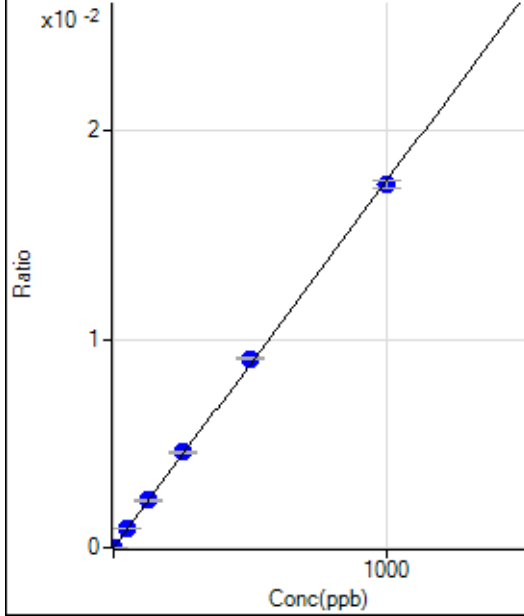
$$R = 0.9998$$

$$DL = 0.004934$$

$$BEC = 0.005307$$

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	93.3
2	☐	1.000	1.074	121.11	0.0000	P	5.6
3	☐	50.000	53.788	5840.20	0.0009	P	3.1
4	☐	125.000	128.687	13855.98	0.0023	P	1.4
5	☐	250.000	259.726	27740.22	0.0046	P	1.8
6	☐	500.000	515.133	53926.24	0.0091	P	0.7
7	☐	1000.000	989.352	109648.94	0.0174	P	2.2
8	☐			141.11	0.0000	P	8.8

$$y = 1.7602\text{E-}005 * x + 9.1865\text{E-}007$$

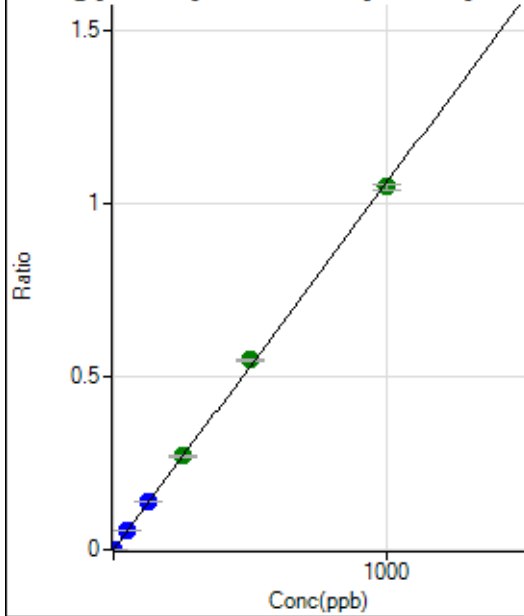
$$R = 0.9998$$

$$DL = 0.1461$$

$$BEC = 0.05219$$

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	18.89	0.0000	P	80.4
2	☐	1.000	0.981	6350.42	0.0010	P	4.0
3	☐	50.000	54.265	354415.15	0.0575	P	0.8
4	☐	125.000	131.749	853324.67	0.1396	P	1.2
5	☐	250.000	254.679	1636304.02	0.2698	A	2.8
6	☐	500.000	517.641	3260741.55	0.5483	A	0.6
7	☐	1000.000	988.953	6595799.56	1.0476	A	1.8
8	☐			3788.37	0.0007	P	9.0

$$y = 0.0011 * x + 3.0602\text{E-}006$$

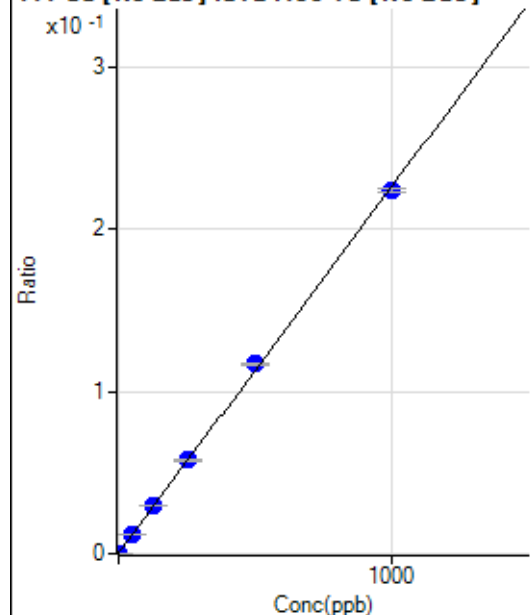
$$R = 0.9997$$

$$DL = 0.006972$$

$$BEC = 0.002889$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1203.75	0.0002	P	2.2
2	☐	1.000	1.007	2592.07	0.0004	P	4.3
3	☐	50.000	54.113	76620.54	0.0124	P	0.4
4	☐	125.000	131.151	182466.26	0.0298	P	1.0
5	☐	250.000	255.237	351113.88	0.0579	P	2.3
6	☐	500.000	516.641	695609.46	0.1170	P	0.4
7	☐	1000.000	989.396	1409304.63	0.2238	P	1.0
8	☐			2237.37	0.0004	P	2.5

$$y = 2.2601\text{E-}004 * x + 1.9753\text{E-}004$$

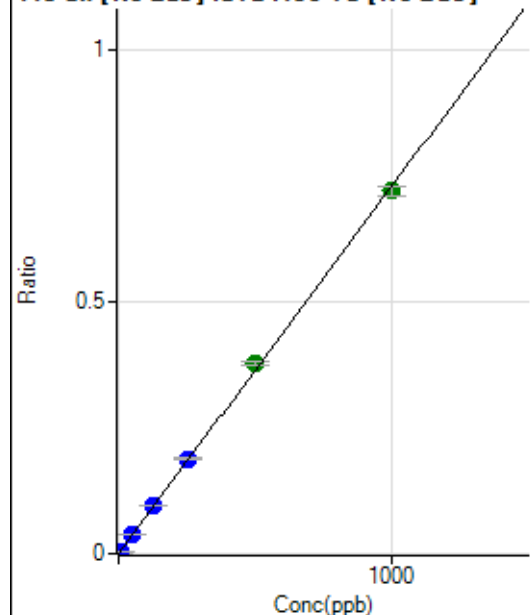
$$R = 0.9998$$

$$DL = 0.05744$$

$$BEC = 0.874$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	691.14	0.0001	P	8.7
2	☐	5.000	4.878	22342.80	0.0037	P	1.9
3	☐	50.000	53.108	238992.64	0.0388	P	0.4
4	☐	125.000	129.637	577576.74	0.0945	P	1.8
5	☐	250.000	257.143	1135986.30	0.1873	P	1.6
6	☐	500.000	518.295	2243506.09	0.3773	A	2.9
7	☐	1000.000	988.332	4529650.70	0.7194	A	2.6
8	☐			5262.19	0.0009	P	1.4

$$y = 7.2780\text{E-}004 * x + 1.1357\text{E-}004$$

$$R = 0.9997$$

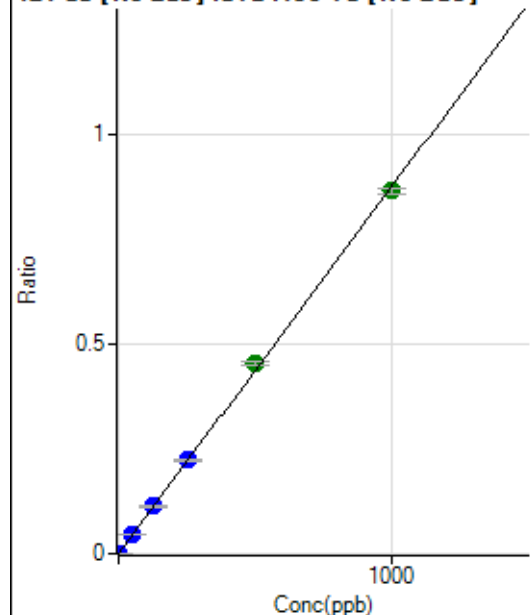
$$DL = 0.04058$$

$$BEC = 0.156$$

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	31.11	0.0000	P	45.3
2	☐	2.000	1.980	10624.22	0.0017	P	2.9
3	☐	50.000	52.684	284826.23	0.0462	P	0.4
4	☐	125.000	129.218	692833.69	0.1133	P	1.4
5	☐	250.000	255.740	1360318.30	0.2243	P	1.9
6	☐	500.000	517.427	2697908.01	0.4537	A	1.8
7	☐	1000.000	989.190	5461494.99	0.8674	A	1.5
8	☐			5477.84	0.0009	P	7.7

$$y = 8.7686\text{E-}004 * x + 5.0570\text{E-}006$$

$$R = 0.9998$$

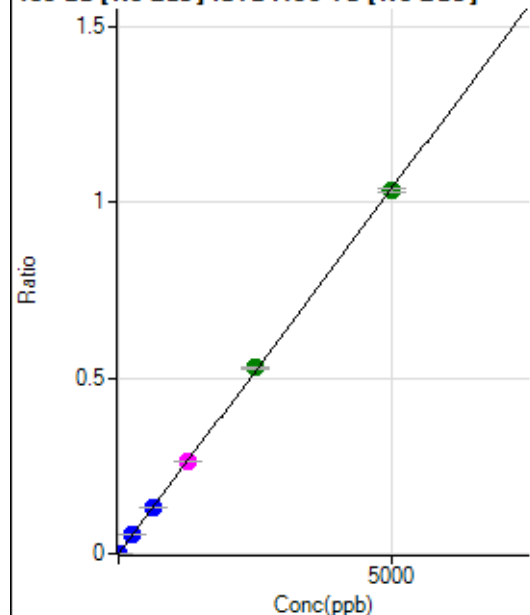
$$DL = 0.007844$$

$$BEC = 0.005767$$

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	68.89	0.0000	P	15.5
2	☐	10.000	9.798	12468.07	0.0020	P	1.7
3	☐	250.000	262.309	335747.09	0.0545	P	0.9
4	☐	625.000	642.218	815254.16	0.1333	P	0.5
5	☐	1250.000	1264.344	1592362.93	0.2625	M	1.3
6	☐	2500.000	2544.014	3140820.16	0.5281	A	1.3
7	☐	5000.000	4971.640	6498788.72	1.0321	A	1.0
8	☐			5163.28	0.0009	P	5.8

$$y = 2.0759\text{E-}004 * x + 1.1281\text{E-}005$$

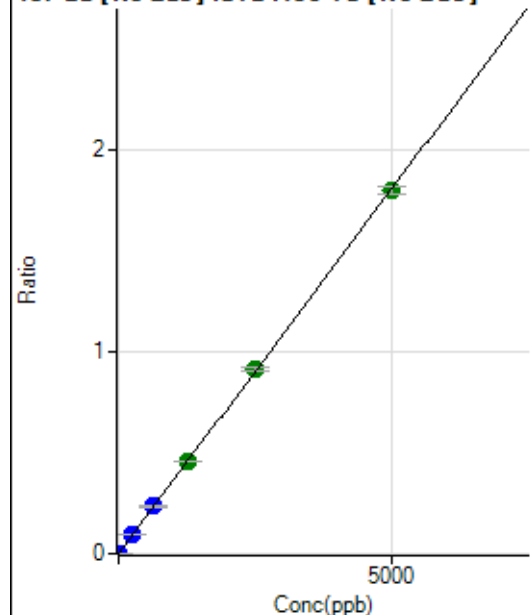
$$R = 0.9999$$

$$DL = 0.02521$$

$$BEC = 0.05434$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.22	0.0000	P	27.4
2	☐	10.000	9.906	21808.76	0.0036	P	2.0
3	☐	250.000	264.024	586532.41	0.0951	P	0.6
4	☐	625.000	647.775	1427228.57	0.2334	P	1.1
5	☐	1250.000	1265.736	2767298.46	0.4561	A	0.2
6	☐	2500.000	2532.881	5427807.77	0.9127	A	1.4
7	☐	5000.000	4976.078	11289130.94	1.7930	A	2.1
8	☐			8982.01	0.0015	P	7.5

$$y = 3.6033E-004 * x + 8.6223E-006$$

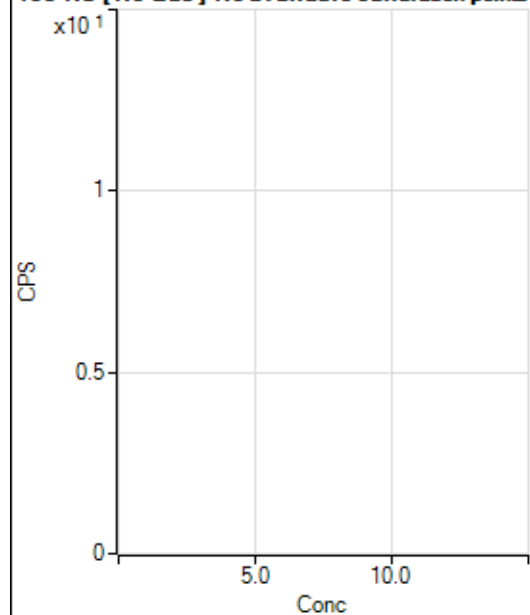
$$R = 1.0000$$

$$DL = 0.01969$$

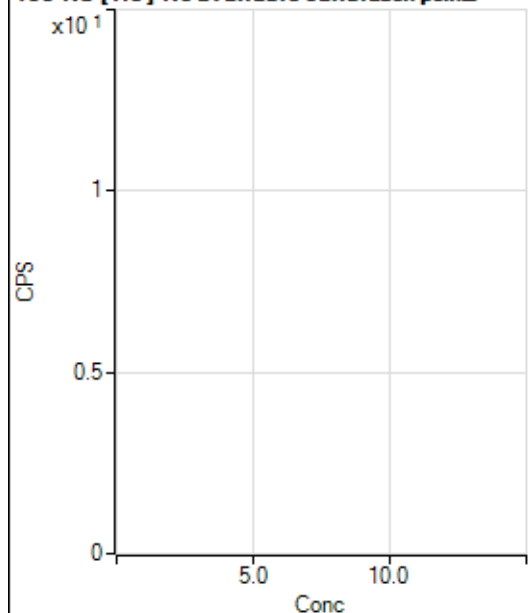
$$BEC = 0.02393$$

Weight: <None>

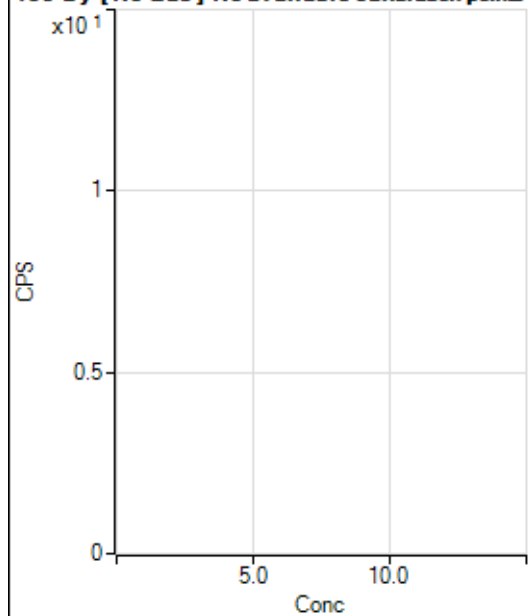
Min Conc: 0

150 Nd [No Gas] No available calibration points

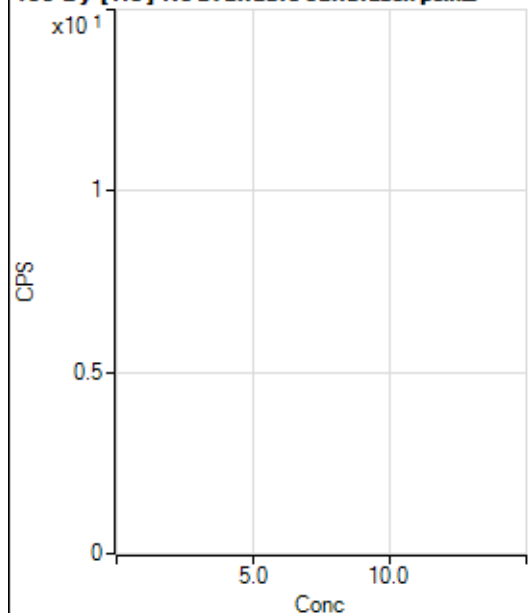
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			6.67		P	50.0
3	☐			27.78		P	36.7
4	☐			63.34		P	24.1
5	☐			102.22		P	29.6
6	☐			217.78		P	11.9
7	☐			452.24		P	3.3
8	☐			33.33		P	43.6

150 Nd [He] No available calibration points

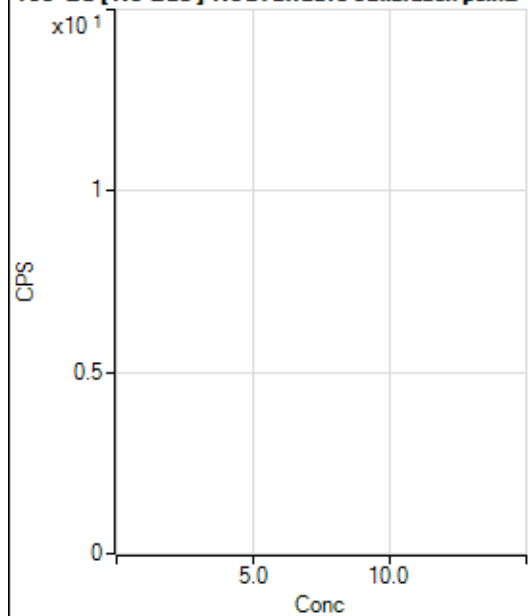
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			4.44		P	114.6
4	☐			12.22		P	41.7
5	☐			16.67		P	34.6
6	☐			35.55		P	37.9
7	☐			68.89		P	31.5
8	☐			10.00		P	33.3

156 Dy [No Gas] No available calibration points

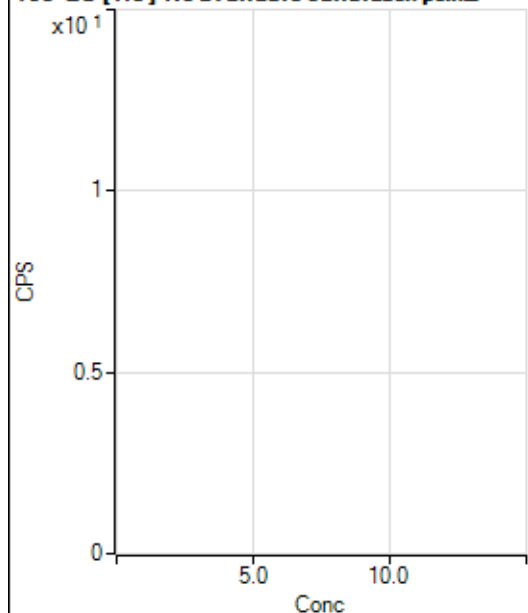
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐			3.33		P	173.2
3	☐			33.33		P	36.1
4	☐			48.89		P	27.5
5	☐			101.11		P	23.4
6	☐			211.12		P	27.2
7	☐			402.23		P	3.3
8	☐			622.24		P	1.1

156 Dy [He] No available calibration points

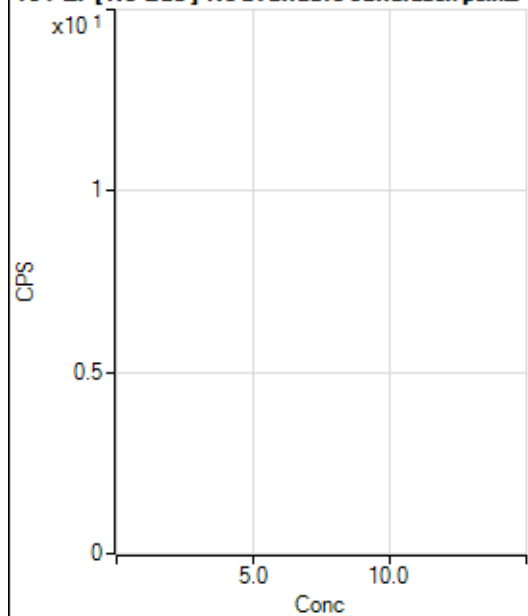
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			1.11		P	173.2
3	☐			10.00		P	57.7
4	☐			27.78		P	13.9
5	☐			38.89		P	50.2
6	☐			103.34		P	5.6
7	☐			218.89		P	14.5
8	☐			294.45		P	8.0

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

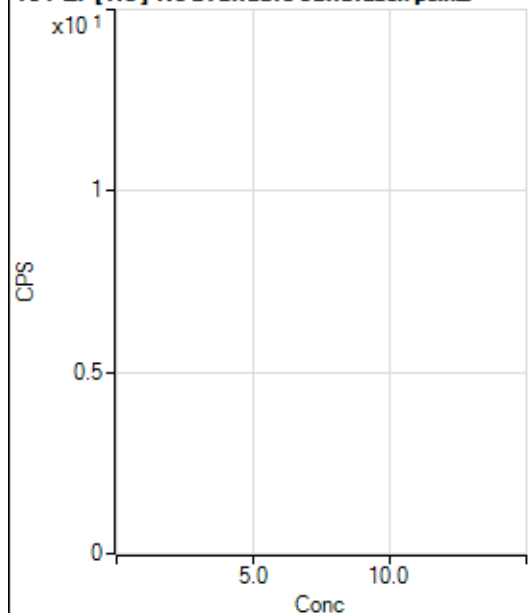
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	14.8
2	☐			23.33		P	28.6
3	☐			61.11		P	32.0
4	☐			73.33		P	7.9
5	☐			126.67		P	11.5
6	☐			201.11		P	8.5
7	☐			404.46		P	5.6
8	☐			686.69		P	3.7

160 Gd [He] No available calibration points

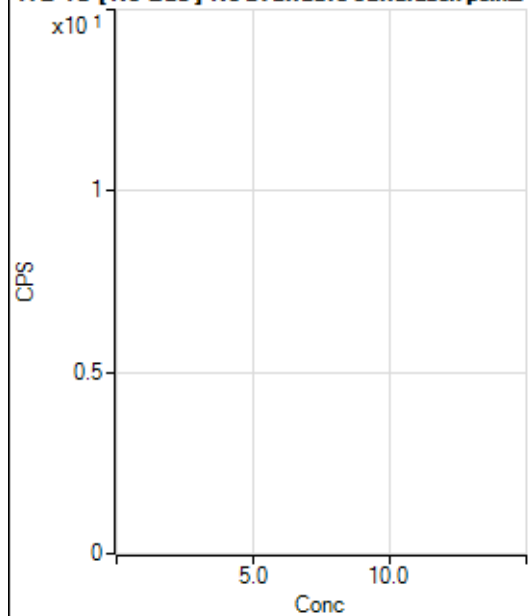
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.34		P	48.0
2	☐			68.89		P	10.1
3	☐			77.78		P	5.0
4	☐			96.67		P	26.9
5	☐			98.89		P	15.9
6	☐			163.34		P	21.5
7	☐			233.34		P	17.8
8	☐			376.68		P	14.2

164 Er [No Gas] No available calibration points

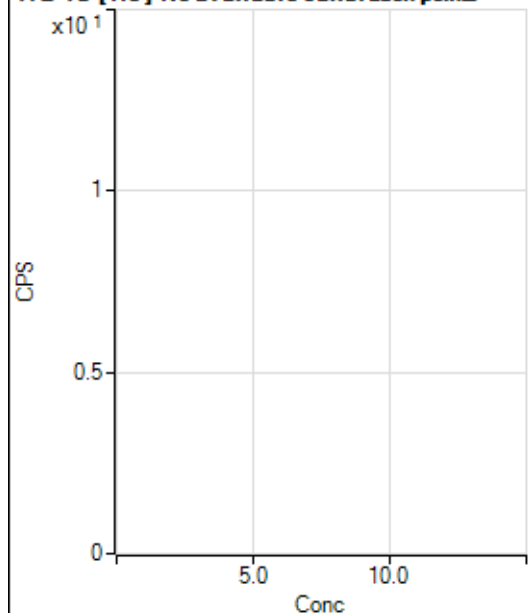
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	22.4
2	☐			58.89		P	22.9
3	☐			53.33		P	48.8
4	☐			57.78		P	31.8
5	☐			85.56		P	9.0
6	☐			128.89		P	17.2
7	☐			180.01		P	8.5
8	☐			96.67		P	15.8

164 Er [He] No available calibration points

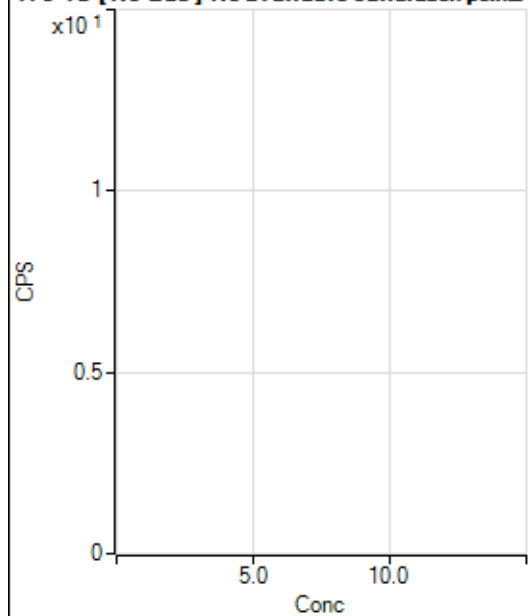
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	42.9
2	☐			23.33		P	42.9
3	☐			23.33		P	37.8
4	☐			24.44		P	7.9
5	☐			30.00		P	29.4
6	☐			57.78		P	8.8
7	☐			78.89		P	13.6
8	☐			35.56		P	60.3

172 Yb [No Gas] No available calibration points

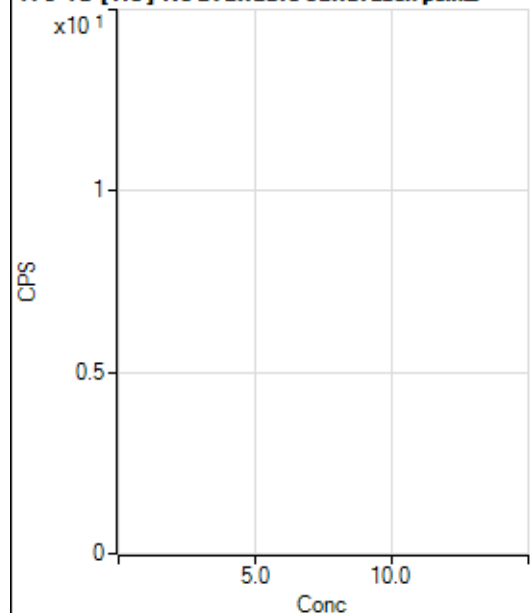
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	28.6
2	☐			53.33		P	21.7
3	☐			44.45		P	35.4
4	☐			52.22		P	16.1
5	☐			92.22		P	21.8
6	☐			102.22		P	1.9
7	☐			153.34		P	19.3
8	☐			481.13		P	13.2

172 Yb [He] No available calibration points

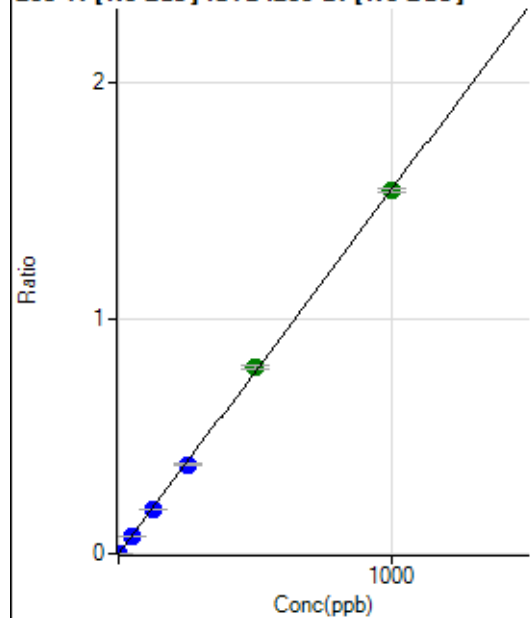
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	10.8
2	☐			18.89		P	40.7
3	☐			16.67		P	52.9
4	☐			32.22		P	43.1
5	☐			38.89		P	27.5
6	☐			45.56		P	27.7
7	☐			62.22		P	17.2
8	☐			224.45		P	0.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			567.80		P	19.8
2	☐			577.80		P	1.5
3	☐			1925.72		P	2.4
4	☐			4119.58		P	2.6
5	☐			7307.64		P	3.5
6	☐			14115.42		P	2.7
7	☐			28302.61		P	1.4
8	☐			858.93		P	9.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5854.69		P	6.1
2	☐			5802.44		P	1.0
3	☐			6450.53		P	3.7
4	☐			7219.81		P	1.3
5	☐			8433.87		P	3.4
6	☐			11291.59		P	1.6
7	☐			17374.86		P	0.5
8	☐			6039.22		P	4.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	87.78	0.0000	P	14.1
2	☐	1.000	0.917	5964.75	0.0014	P	1.4
3	☐	50.000	48.028	322594.99	0.0744	P	1.7
4	☐	125.000	122.428	795450.02	0.1895	P	1.1
5	☐	250.000	245.212	1569234.23	0.3796	P	1.3
6	☐	500.000	509.929	3219553.50	0.7893	A	2.1
7	☐	1000.000	996.653	6412974.00	1.5427	A	1.1
8	☐			4419.71	0.0012	P	2.1

$$y = 0.0015 * x + 2.1359E-005$$

$$R = 0.9999$$

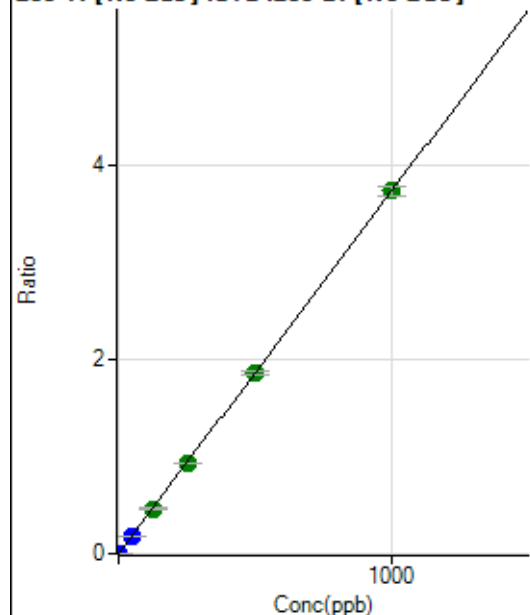
$$DL = 0.005838$$

$$BEC = 0.0138$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	230.00	0.0001	P	14.1
2	☐	1.000	0.914	14345.82	0.0035	P	2.7
3	☐	50.000	48.842	791010.67	0.1823	P	1.8
4	☐	125.000	124.121	1944160.20	0.4633	A	2.1
5	☐	250.000	250.968	3872483.13	0.9367	A	0.8
6	☐	500.000	497.337	7571152.39	1.8561	A	1.9
7	☐	1000.000	1001.257	15531064.77	3.7367	A	2.3
8	☐			10483.34	0.0029	P	3.0

$$y = 0.0037 * x + 5.6160E-005$$

$$R = 1.0000$$

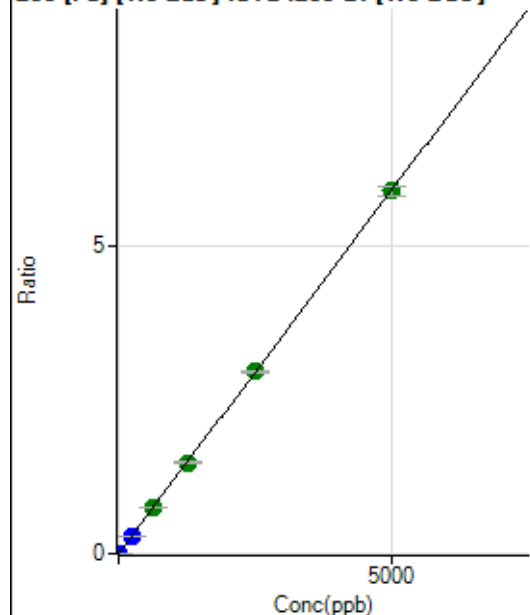
$$DL = 0.00637$$

$$BEC = 0.01505$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	274.45	0.0001	P	10.0
2	☐	1.000	0.973	5044.37	0.0012	P	2.6
3	☐	250.000	245.114	1259805.13	0.2903	P	0.4
4	☐	625.000	628.112	3122216.03	0.7439	A	1.2
5	☐	1250.000	1257.156	6154527.76	1.4888	A	2.1
6	☐	2500.000	2507.513	12113613.15	2.9694	A	1.2
7	☐	5000.000	4994.310	24581820.47	5.9142	A	2.3
8	☐			15861.24	0.0044	P	3.6

$$y = 0.0012 * x + 6.6843E-005$$

$$R = 1.0000$$

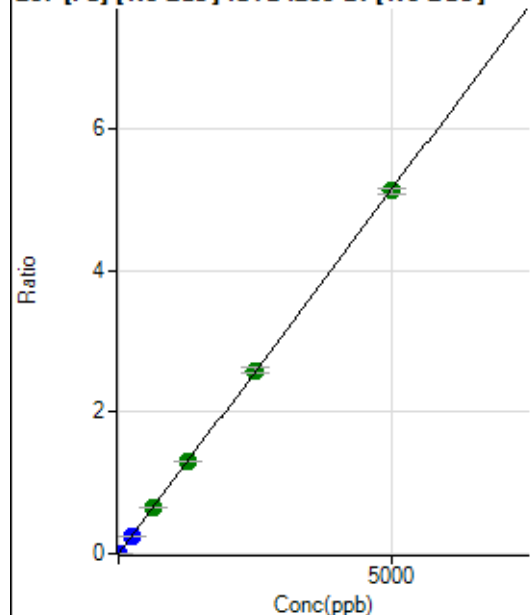
$$DL = 0.01694$$

$$BEC = 0.05645$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.45	0.0001	P	7.1
2	☐	1.000	0.972	4384.12	0.0011	P	1.7
3	☐	250.000	246.640	1100249.27	0.2536	P	1.7
4	☐	625.000	635.891	2743596.97	0.6537	A	1.8
5	☐	1250.000	1272.739	5409160.40	1.3084	A	1.0
6	☐	2500.000	2521.132	10570727.41	2.5917	A	3.1
7	☐	5000.000	4982.556	21291997.74	5.1220	A	1.3
8	☐			13920.08	0.0038	P	4.5

$$y = 0.0010 * x + 5.9738E-005$$

$$R = 1.0000$$

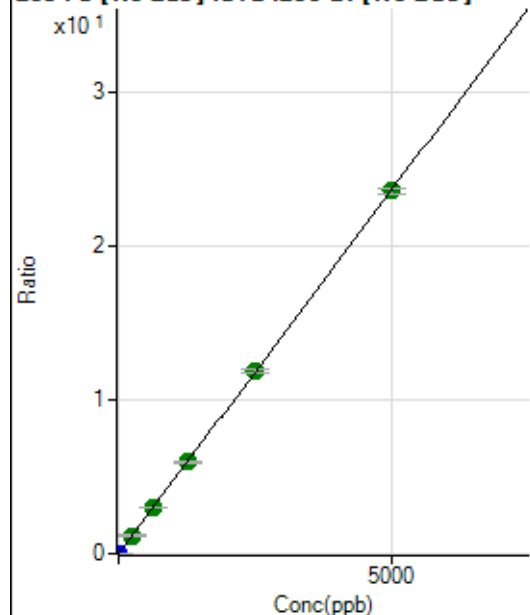
$$DL = 0.01244$$

$$BEC = 0.05811$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1086.70	0.0003	P	4.9
2	☐	1.000	0.967	20018.48	0.0048	P	1.4
3	☐	250.000	251.115	5151251.44	1.1872	A	1.1
4	☐	625.000	628.577	12472425.27	2.9714	A	0.9
5	☐	1250.000	1258.120	24586321.86	5.9472	A	1.3
6	☐	2500.000	2514.110	48478690.46	11.8840	A	1.5
7	☐	5000.000	4990.412	98056677.43	23.5891	A	1.5
8	☐			63667.45	0.0176	P	2.9

$$y = 0.0047 * x + 2.6538E-004$$

$$R = 1.0000$$

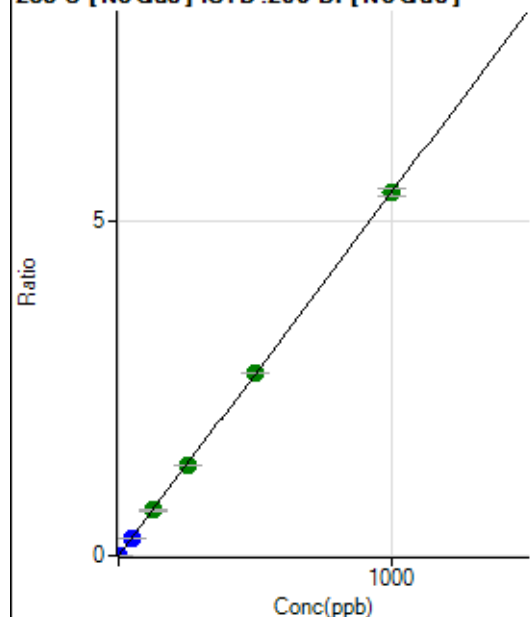
$$DL = 0.008333$$

$$BEC = 0.05614$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	32.8
2	☐	1.000	0.882	19845.60	0.0048	P	1.4
3	☐	50.000	47.847	1127764.40	0.2599	P	1.4
4	☐	125.000	124.973	2849492.07	0.6789	A	2.3
5	☐	250.000	249.402	5601597.38	1.3549	A	0.8
6	☐	500.000	503.414	11159133.16	2.7349	A	0.5
7	☐	1000.000	998.554	22548097.44	5.4248	A	2.2
8	☐			13066.10	0.0036	P	1.3

$$y = 0.0054 * x + 2.6968E-006$$

$$R = 1.0000$$

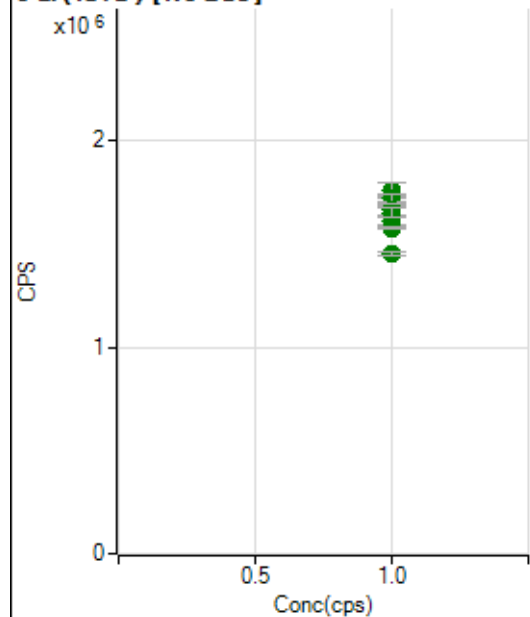
$$DL = 0.0004888$$

$$BEC = 0.0004964$$

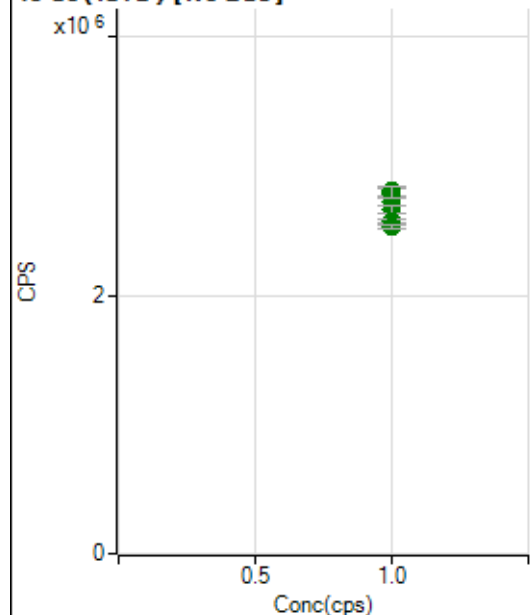
Weight: <None>

Min Conc: 0

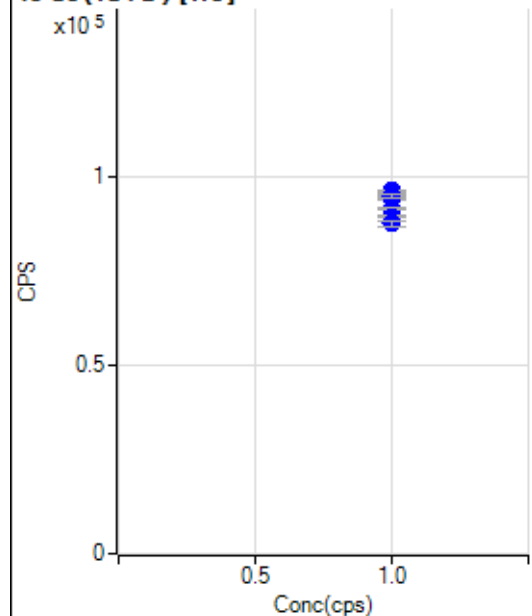
6 Li (ISTD) [No Gas]



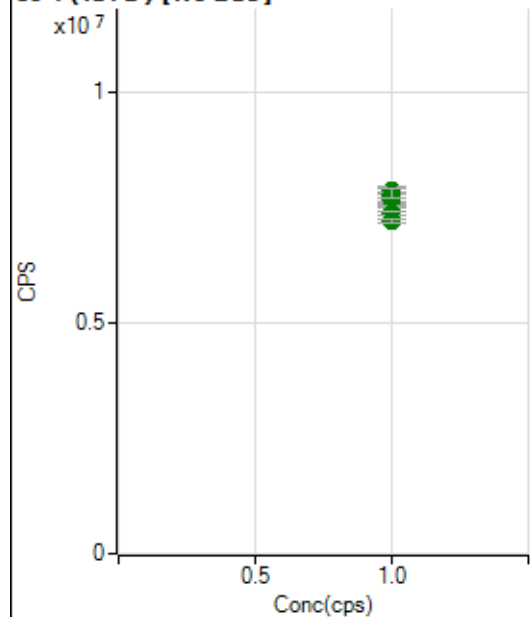
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1755140.10		A	4.3
2	☐	1.000		1706673.23		A	3.1
3	☐	1.000		1720514.94		A	2.4
4	☐	1.000		1665238.48		A	3.0
5	☐	1.000		1607774.51		A	2.6
6	☐	1.000		1575809.87		A	0.6
7	☐	1.000		1650186.50		A	2.6
8	☐	1.000		1451732.76		A	1.0

45 Sc (ISTD) [No Gas]

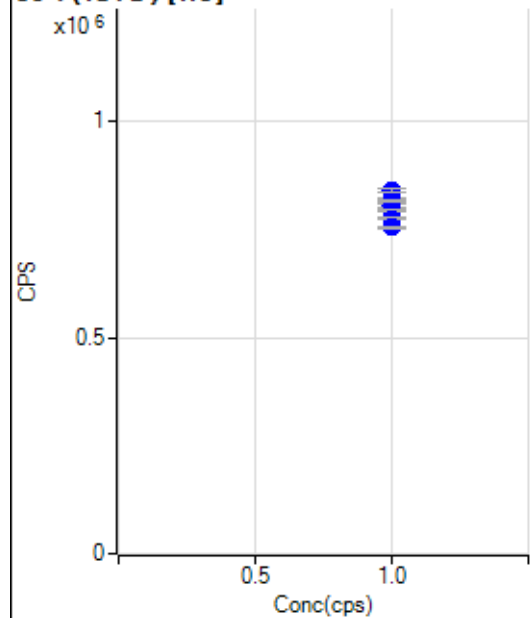
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2792912.18		A	2.7
2	☐	1.000		2795527.25		A	3.2
3	☐	1.000		2810572.49		A	3.0
4	☐	1.000		2721999.44		A	2.1
5	☐	1.000		2665809.16		A	2.0
6	☐	1.000		2581409.02		A	1.4
7	☐	1.000		2796865.20		A	3.2
8	☐	1.000		2536680.43		A	1.1

45 Sc (ISTD) [He]

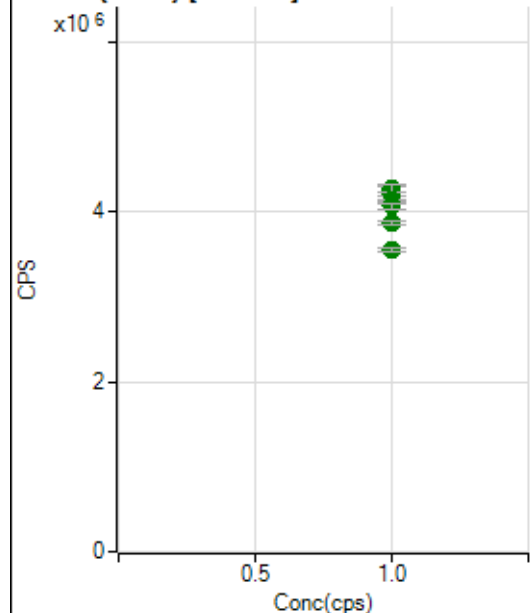
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		94273.66		P	1.1
2	☐	1.000		95423.14		P	0.3
3	☐	1.000		94945.55		P	0.6
4	☐	1.000		91210.45		P	0.7
5	☐	1.000		89300.92		P	0.7
6	☐	1.000		87342.09		P	1.4
7	☐	1.000		96035.92		P	0.4
8	☐	1.000		94758.59		P	1.1

89 Y (ISTD) [No Gas]

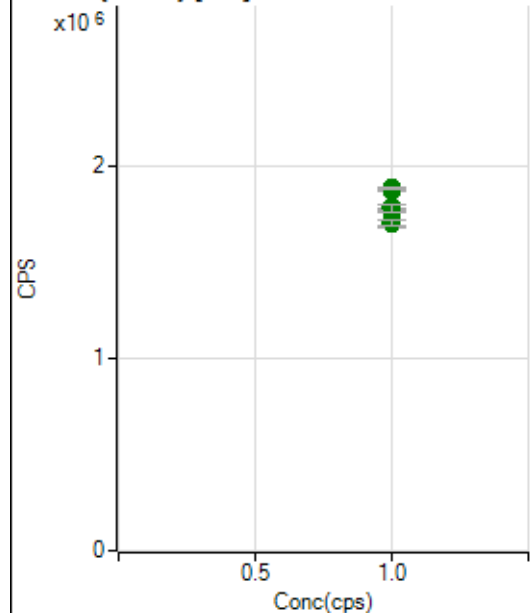
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7729554.82		A	3.1
2	☐	1.000		7741254.05		A	2.9
3	☐	1.000		7869710.79		A	2.2
4	☐	1.000		7674972.66		A	1.1
5	☐	1.000		7541154.19		A	0.3
6	☐	1.000		7385521.56		A	0.9
7	☐	1.000		7811554.12		A	2.5
8	☐	1.000		7221978.02		A	1.3

89 Y (ISTD) [He]

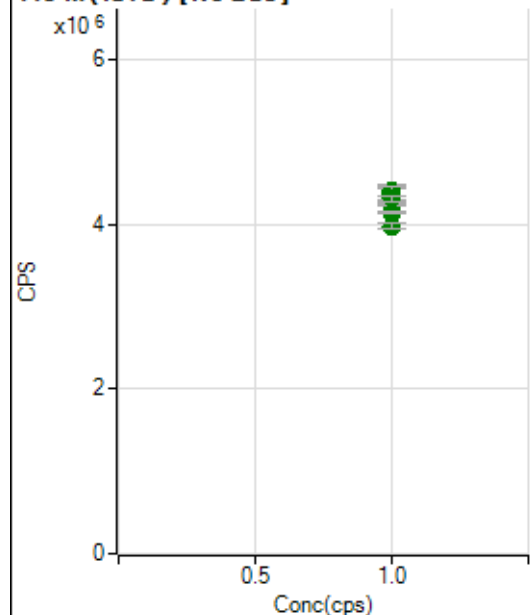
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		805491.06		P	1.0
2	☐	1.000		817436.35		P	0.9
3	☐	1.000		820741.49		P	0.5
4	☐	1.000		793546.21		P	0.7
5	☐	1.000		774837.76		P	0.5
6	☐	1.000		754655.86		P	0.4
7	☐	1.000		816438.17		P	0.4
8	☐	1.000		839156.94		P	1.2

103 Rh (ISTD) [No Gas]

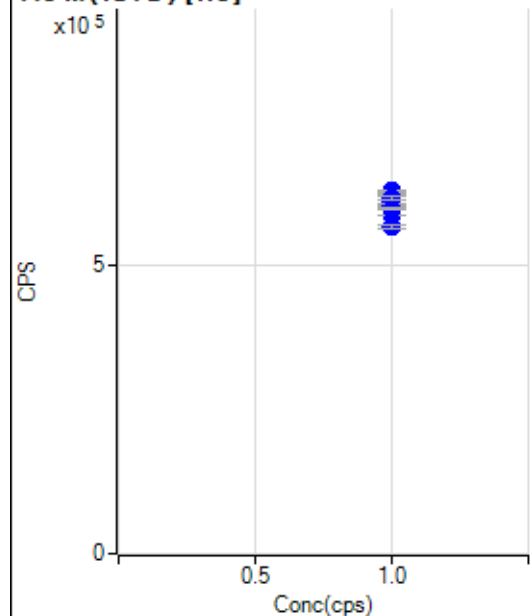
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4249417.09		A	2.7
2	☐	1.000		4214392.51		A	3.8
3	☐	1.000		4271077.23		A	2.0
4	☐	1.000		4131500.22		A	0.3
5	☐	1.000		4068437.41		A	2.1
6	☐	1.000		3871712.23		A	1.0
7	☐	1.000		4072249.21		A	1.7
8	☐	1.000		3556363.46		A	1.3

103 Rh (ISTD) [He]

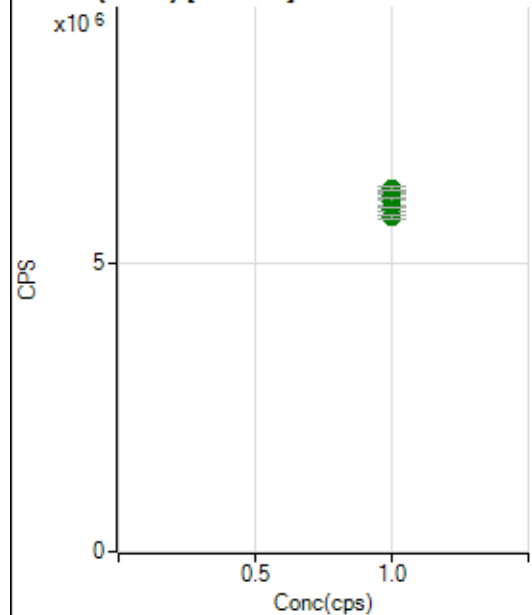
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1872711.38		A	0.9
2	☐	1.000		1884702.72		A	0.6
3	☐	1.000		1883553.93		A	0.5
4	☐	1.000		1787042.58		A	1.3
5	☐	1.000		1759730.25		A	0.7
6	☐	1.000		1696026.57		A	2.4
7	☐	1.000		1774675.34		A	2.2
8	☐	1.000		1705085.42		A	1.9

115 In (ISTD) [No Gas]

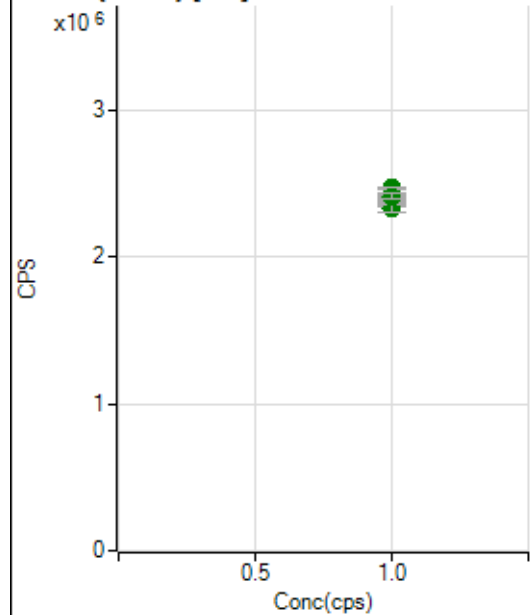
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4406772.62		A	3.1
2	☐	1.000		4373623.82		A	3.5
3	☐	1.000		4398273.97		A	2.7
4	☐	1.000		4260607.33		A	2.0
5	☐	1.000		4237933.24		A	0.5
6	☐	1.000		4136929.97		A	0.5
7	☐	1.000		4315793.37		A	1.6
8	☐	1.000		3980098.63		A	2.0

115 In (ISTD) [He]

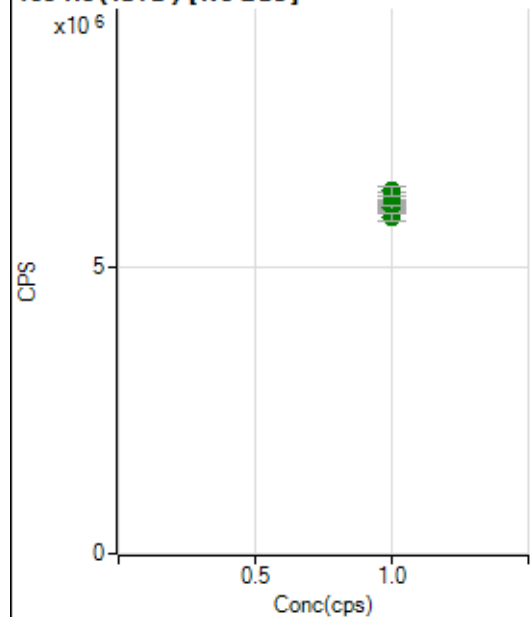
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		607120.38		P	1.6
2	☐	1.000		621762.38		P	0.4
3	☐	1.000		627614.27		P	0.4
4	☐	1.000		602432.67		P	1.0
5	☐	1.000		584703.08		P	0.3
6	☐	1.000		565776.45		P	0.8
7	☐	1.000		596587.98		P	0.2
8	☐	1.000		615974.24		P	1.3

159 Tb (ISTD) [No Gas]

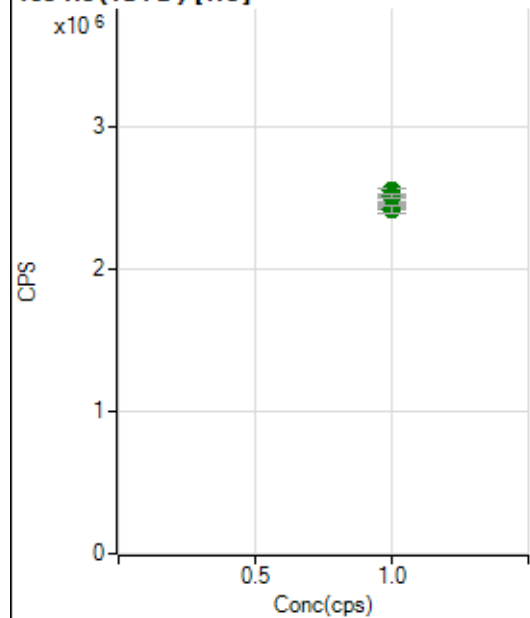
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6091070.26		A	3.3
2	☐	1.000		6098812.96		A	4.2
3	☐	1.000		6165256.23		A	2.2
4	☐	1.000		6114708.94		A	0.6
5	☐	1.000		6067631.16		A	2.1
6	☐	1.000		5947019.91		A	1.1
7	☐	1.000		6297206.23		A	1.2
8	☐	1.000		5819282.83		A	1.2

159 Tb (ISTD) [He]

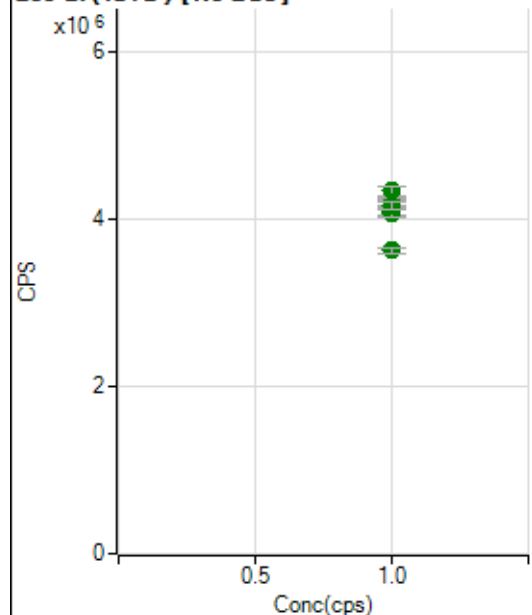
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2380433.80		A	0.5
2	☐	1.000		2415515.81		A	0.8
3	☐	1.000		2465498.28		A	0.5
4	☐	1.000		2406823.21		A	0.9
5	☐	1.000		2355345.52		A	0.8
6	☐	1.000		2331939.22		A	1.9
7	☐	1.000		2468524.96		A	0.8
8	☐	1.000		2413796.37		A	1.8

165 Ho (ISTD) [No Gas]

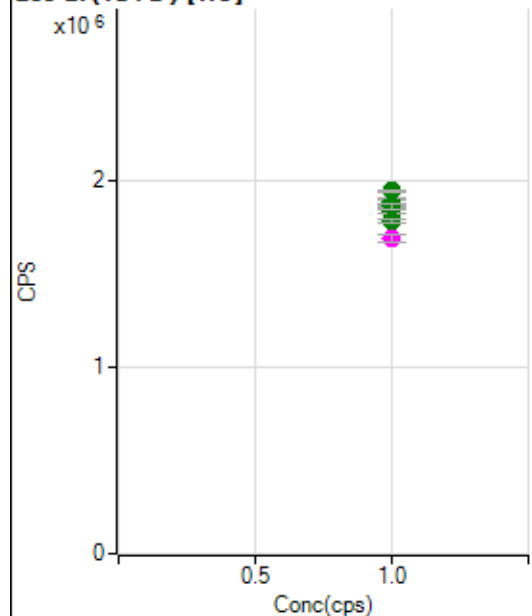
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6131278.80		A	3.4
2	☐	1.000		6104194.91		A	3.9
3	☐	1.000		6227143.59		A	1.9
4	☐	1.000		6126185.26		A	0.2
5	☐	1.000		6077074.36		A	1.1
6	☐	1.000		6020959.77		A	1.5
7	☐	1.000		6320008.66		A	2.5
8	☐	1.000		5858640.40		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2466581.60		A	0.5
2	☐	1.000		2465358.76		A	2.6
3	☐	1.000		2524182.25		A	0.2
4	☐	1.000		2443258.13		A	1.6
5	☐	1.000		2468139.39		A	0.9
6	☐	1.000		2423039.20		A	2.0
7	☐	1.000		2551249.32		A	1.9
8	☐	1.000		2512812.91		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4097898.93		A	3.0
2	☐	1.000		4139626.67		A	4.3
3	☐	1.000		4339528.96		A	2.5
4	☐	1.000		4197993.41		A	2.5
5	☐	1.000		4134310.56		A	0.6
6	☐	1.000		4080191.53		A	2.1
7	☐	1.000		4157790.15		A	2.3
8	☐	1.000		3624828.17		A	1.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1885179.35		A	1.8
2	☐	1.000		1891990.37		A	2.3
3	☐	1.000		1948671.93		A	0.8
4	☐	1.000		1864242.51		A	0.5
5	☐	1.000		1837335.06		A	1.1
6	☐	1.000		1788279.78		A	0.8
7	☐	1.000		1866144.54		A	1.5
8	☐	1.000		1690859.04		M	2.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8020924 MS.b

Acq. Date-Time 2024-02-09 08:39:52

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		6693	66926.27			1.064	5.000
24		59764	597636.68			1.092	5.000
25		8120	81201.43			1.392	5.000
26		9309	93090.93			0.810	5.000
59		47444	474438.61			1.628	5.000
113		6076	60763.14			1.254	5.000
115		77455	774548.06			3.025	5.000
206		20737	207373.30			2.132	5.000
207		19028	190276.59			2.575	5.000
208		46075	460745.89			2.129	5.000
220		0	2.00			46.771	

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

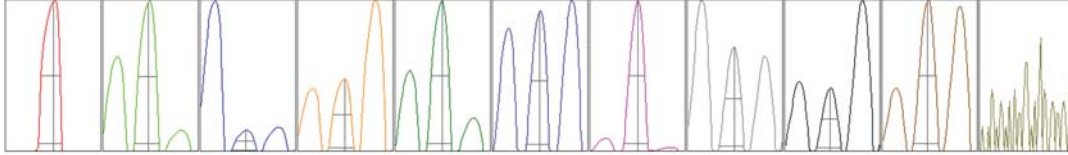
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6604	6634	6727	6725	6774
24	59169	59156	59785	59977	60731
25	8039	8008	8106	8152	8295
26	9257	9252	9265	9348	9424
59	46733	46989	47167	47637	48693
113	6050	6178	6133	5999	6021
115	77433	80202	79361	75297	74980
206	20170	20527	20794	20821	21374
207	18311	18899	19041	19240	19647
208	44877	45661	46117	46148	47570

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	11860.11	9.05	8.90 - 9.10	
24	105619.38	23.95	23.90 - 24.10	
25	14319.75	24.95	24.90 - 25.10	
26	16723.12	26.00	25.90 - 26.10	
59	89986.27	59.00	58.90 - 59.10	
113	12408.47	113.00	112.90 - 113.10	
115	160137.92	115.05	114.90 - 115.10	
206	40912.37	206.00	205.90 - 206.10	
207	37496.57	206.95	206.90 - 207.10	
208	89114.57	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.739	0.900	
24	0.59	0.782	0.900	
25	0.59	0.783	0.900	
26	0.59	0.785	0.900	
59	0.55	0.771	0.900	
113	0.50	0.716	0.900	
115	0.49	0.760	0.900	
206	0.51	0.779	0.900	
207	0.51	0.780	0.900	
208	0.52	0.805	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	-6.0 V	Omega Lens	9.4 V	Deflect	15.0 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	140 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2308 V	Pulse HV	1693 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11254	112539.28			0.798	
89		8534	85336.32			1.915	
205		14722	147216.80			1.066	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11226	11382	11250	11134	11277
89	8691	8697	8545	8370	8365
205	14760	14884	14677	14476	14812

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	9.4 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2308 V	Pulse HV	1693 V
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