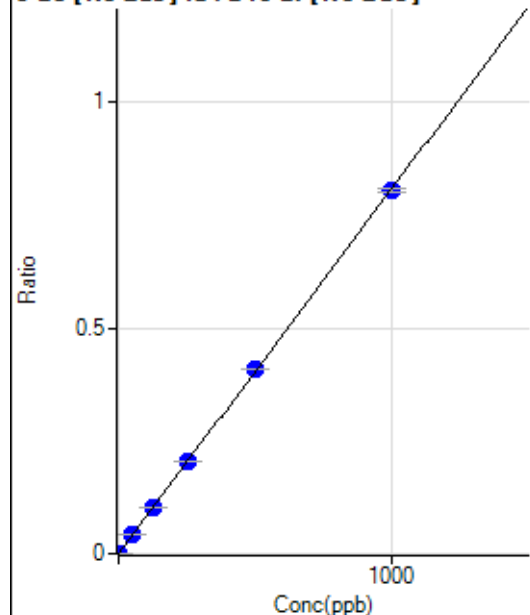


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7012921M.b\
Analysis File: P7012921M.batch.bin
DA Date-Time: 2021-01-31 22:57:35
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-29 14:06:01
2	004CALS.d	S01	2021-01-29 14:09:10
3	005CALS.d	S02	2021-01-29 14:12:18
4	006CALS.d	S03	2021-01-29 14:15:26
5	007CALS.d	S04	2021-01-29 14:18:33
6	008CALS.d	S05	2021-01-29 14:21:39
7	009CALS.d	S06	2021-01-29 14:24:43
8	010CALS.d	S07	2021-01-29 14:27:43
9	011CALS.d	S08	2021-01-29 14:30:42

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.37	0.0000	P	62.8
2	☐	0.100	0.106	120.37	0.0001	P	19.3
3	☐	1.000	1.088	1048.20	0.0009	P	4.1
4	☐	50.000	50.684	48276.57	0.0409	P	2.1
5	☐	125.000	126.087	120870.24	0.1018	P	1.2
6	☐	250.000	254.534	242389.61	0.2055	P	0.4
7	☐	500.000	507.334	478440.95	0.4097	P	0.2
8	☐	1000.000	995.029	930422.64	0.8035	P	1.0
9	☐			207.41	0.0002	P	38.3

$$y = 8.0745E-004 * x + 1.7146E-005$$

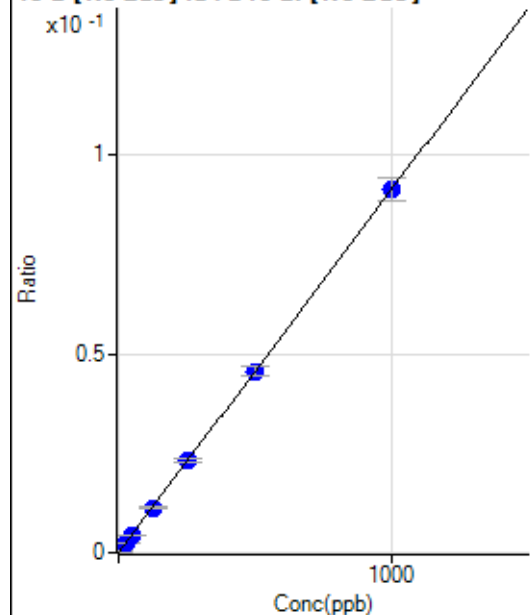
$$R = 1.0000$$

$$DL = 0.04001$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.11	0.0000	P	81.0
2	☐	2.500	2.402	291.68	0.0002	P	8.5
3	☐	25.000	24.505	2650.30	0.0023	P	1.0
4	☐	50.000	47.286	5120.46	0.0043	P	4.3
5	☐	125.000	122.202	13264.43	0.0112	P	3.8
6	☐	250.000	253.653	27314.16	0.0232	P	4.0
7	☐	500.000	500.343	53310.79	0.0457	P	4.6
8	☐	1000.000	999.413	105561.26	0.0912	P	6.4
9	☐			2650.29	0.0023	P	8.3

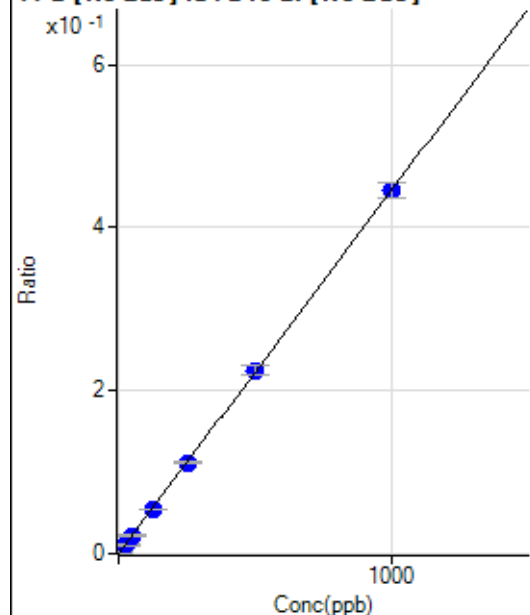
$$y = 9.1184E-005 * x + 3.0493E-005$$

$$R = 1.0000$$

$$DL = 0.813$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	169.45	0.0001	P	20.4
2	☐	2.500	2.330	1380.66	0.0012	P	9.7
3	☐	25.000	24.330	12852.96	0.0110	P	7.7
4	☐	50.000	49.556	26198.19	0.0222	P	4.3
5	☐	125.000	121.685	64518.08	0.0543	P	1.6
6	☐	250.000	250.930	132001.85	0.1119	P	3.8
7	☐	500.000	503.356	262001.23	0.2244	P	5.1
8	☐	1000.000	998.543	515261.54	0.4450	P	4.3
9	☐			12750.17	0.0110	P	13.5

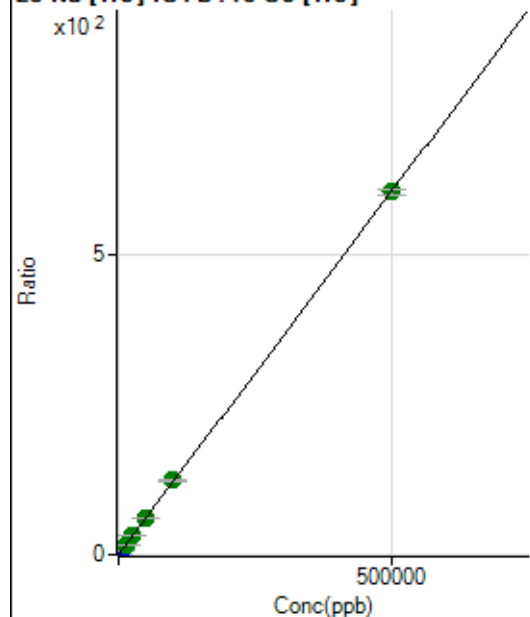
$$y = 4.4547\text{E-}004 * x + 1.4295\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.196$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15157.92	0.0512	P	1.7
2	☐	50.000	54.339	33793.94	0.1171	P	1.8
3	☐	500.000	520.392	198672.77	0.6822	P	1.2
4	☐	5000.000	5513.544	1925506.75	6.7361	P	2.1
5	☐	12500.000	12674.396	4485992.68	15.4182	A	1.5
6	☐	25000.000	25207.479	8728967.73	30.6138	A	0.2
7	☐	50000.000	50607.463	16857158.19	61.4098	A	1.0
8	☐	100000.00	102124.92	33849065.34	123.8718	A	1.2
9	☐	500000.00	499494.37	169901234.3	605.6593	A	1.4

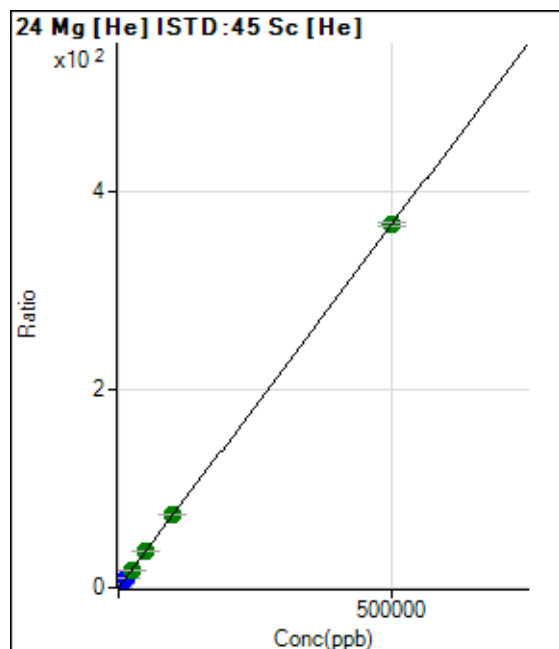
$$y = 0.0012 * x + 0.0512$$

$$R = 1.0000$$

$$DL = 2.173$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	130.56	0.0004	P	43.8
2	☐	50.000	49.912	10667.96	0.0370	P	4.9
3	☐	500.000	498.855	106472.39	0.3656	P	1.8
4	☐	5000.000	5367.709	1123101.00	3.9293	P	2.7
5	☐	12500.000	13004.668	2769655.27	9.5191	P	1.3
6	☐	25000.000	24936.770	5204405.15	18.2526	A	0.6
7	☐	50000.000	49951.261	10036169.06	36.5617	A	1.6
8	☐	100000.00	100285.20	20058227.88	73.4030	A	1.5
9	☐	500000.00	499934.70	102651304.3	365.9216	A	1.0

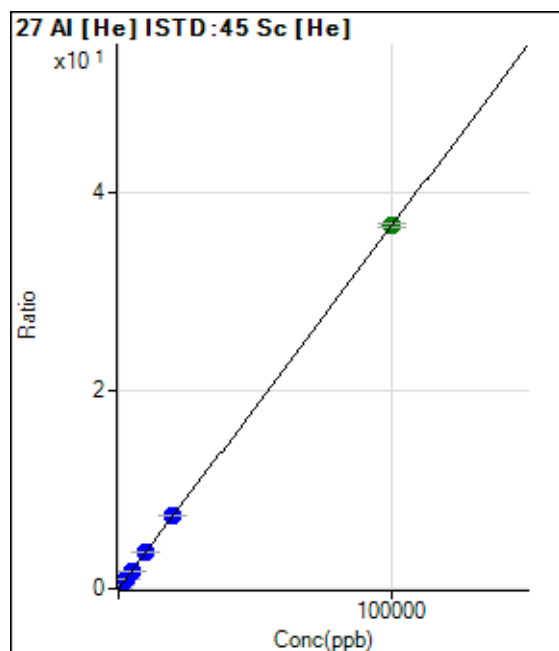
$$y = 7.3194\text{E-}004 * x + 4.4177\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.793$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	250.01	0.0008	P	25.9
2	☐	2.000	1.826	436.13	0.0015	P	4.2
3	☐	20.000	18.681	2233.55	0.0077	P	5.9
4	☐	1000.000	1035.205	108379.12	0.3792	P	2.1
5	☐	2500.000	2514.073	267553.27	0.9196	P	1.9
6	☐	5000.000	4940.680	515053.19	1.8064	P	0.8
7	☐	10000.000	9910.312	994397.77	3.6225	P	1.1
8	☐	20000.000	19971.068	1994526.50	7.2991	P	0.9
9	☐	100000.00	100017.01	10253693.28	36.5512	A	0.9

$$y = 3.6544\text{E-}004 * x + 8.4431\text{E-}004$$

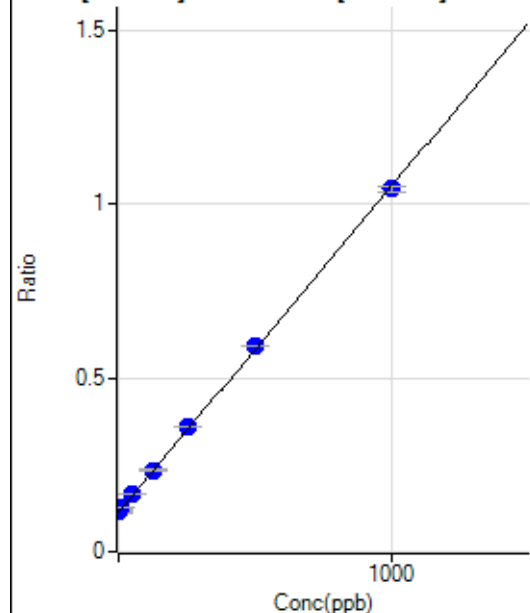
$$R = 1.0000$$

$$DL = 1.796$$

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	379140.59	0.1135	P	1.1
2	☐	1.000	7.734	394144.83	0.1208	P	1.0
3	☐	10.000	16.414	422662.00	0.1289	P	0.7
4	☐	50.000	54.710	539925.34	0.1648	P	0.7
5	☐	125.000	128.900	771954.77	0.2344	P	1.4
6	☐	250.000	261.225	1150711.62	0.3586	P	0.2
7	☐	500.000	509.851	1863471.38	0.5919	P	0.4
8	☐	1000.000	991.475	3234607.78	1.0438	P	1.4
9	☐			399217.75	0.1298	P	1.4

$$y = 9.3827\text{E-}004 * x + 0.1135$$

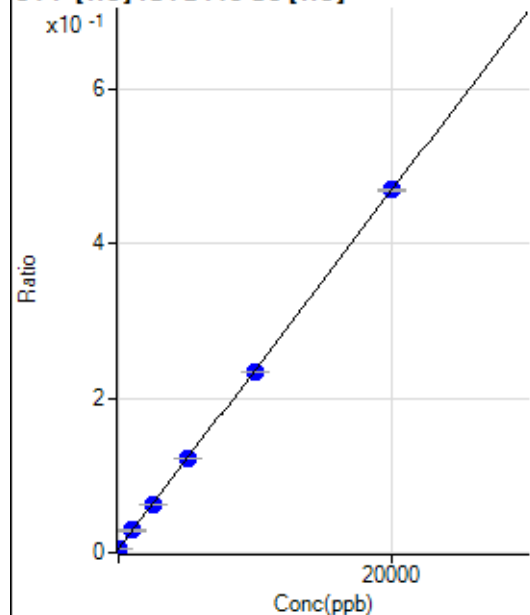
$$R = 0.9999$$

$$DL = 3.829$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-0.246	1433.44	0.0048	P	10.2
2	☐	0.000	16.700	1511.23	0.0052	P	8.1
3	☐	0.000	-16.454	1300.09	0.0045	P	3.3
4	☐	1000.000	1046.028	8324.72	0.0291	P	4.2
5	☐	2500.000	2476.571	18130.80	0.0623	P	1.6
6	☐	5000.000	5048.782	34779.92	0.1220	P	1.4
7	☐	10000.000	9914.629	64472.92	0.2349	P	0.2
8	☐	20000.000	20031.117	128307.61	0.4696	P	0.6
9	☐			1286.20	0.0046	P	6.9

$$y = 2.3199\text{E-}005 * x + 0.0048$$

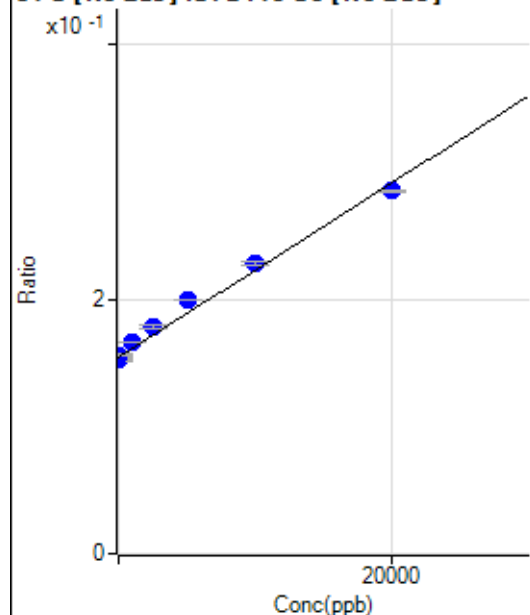
$$R = 1.0000$$

$$DL = 45.9$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-299.321	509610.26	0.1526	P	0.8
2	☐	0.000	96.627	506789.26	0.1553	P	1.1
3	☐	0.000	202.693	511483.77	0.1560	P	1.2
4	☐	1000.000	1725.579	545127.00	0.1664	P	0.7
5	☐	2500.000	3530.001	588619.83	0.1788	P	1.8
6	☐	5000.000	6476.973	638441.88	0.1990	P	0.1
7	☐	10000.000	10758.733	718724.72	0.2283	P	0.7
8	☐	20000.000	19086.361	884233.48	0.2853	P	0.6
9	☐			465416.77	0.1514	P	1.1

$$y = 6.8482\text{E-}006 * x + 0.1546$$

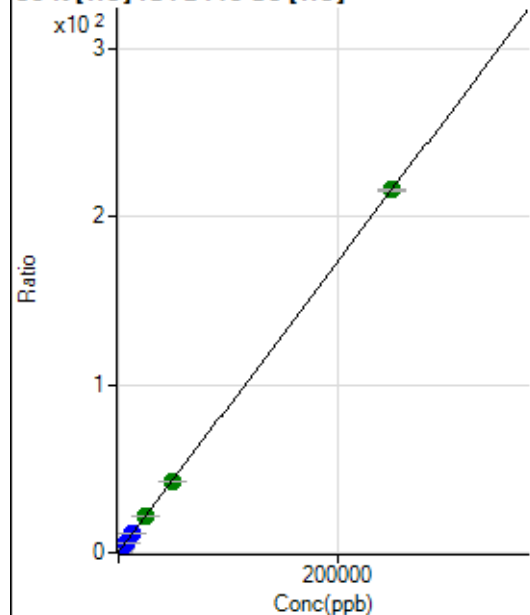
$$R = 0.9945$$

$$DL = 692.2$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86503.91	0.2922	P	0.7
2	☐	50.000	60.823	99464.90	0.3446	P	0.6
3	☐	500.000	509.493	212950.69	0.7312	P	1.6
4	☐	2500.000	2745.816	759835.96	2.6582	P	2.1
5	☐	6250.000	6601.294	1740094.29	5.9803	P	0.7
6	☐	12500.000	13101.343	3302112.60	11.5811	P	0.5
7	☐	25000.000	24558.248	5888946.10	21.4531	A	1.0
8	☐	50000.000	48901.882	11593568.14	42.4290	A	0.2
9	☐	250000.00	250222.47	60567003.44	215.8990	A	0.6

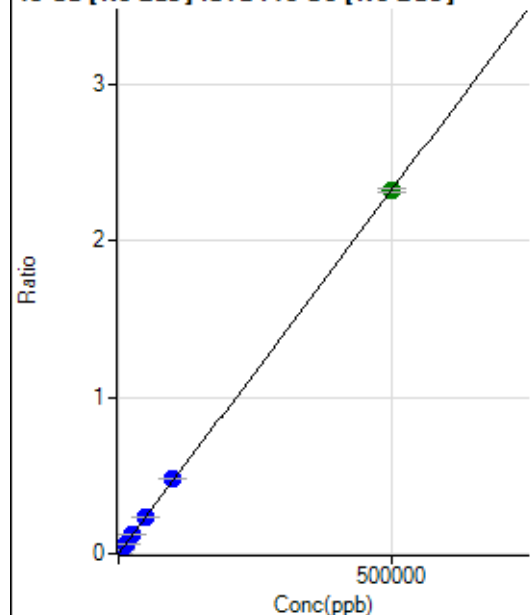
$$y = 8.6166\text{E-}004 * x + 0.2922$$

$$R = 1.0000$$

$$DL = 7.551$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	305.57	0.0001	P	8.2
2	☐	50.000	51.797	1083.40	0.0003	P	3.2
3	☐	500.000	501.047	7930.07	0.0024	P	2.3
4	☐	5000.000	5229.133	79842.44	0.0244	P	2.1
5	☐	12500.000	12839.077	196614.08	0.0597	P	1.3
6	☐	25000.000	25900.146	386228.04	0.1204	P	0.6
7	☐	50000.000	51554.465	754013.55	0.2395	P	0.0
8	☐	100000.00	103055.21	1483305.66	0.4786	P	1.2
9	☐	500000.00	499177.73	7127172.29	2.3181	A	1.2

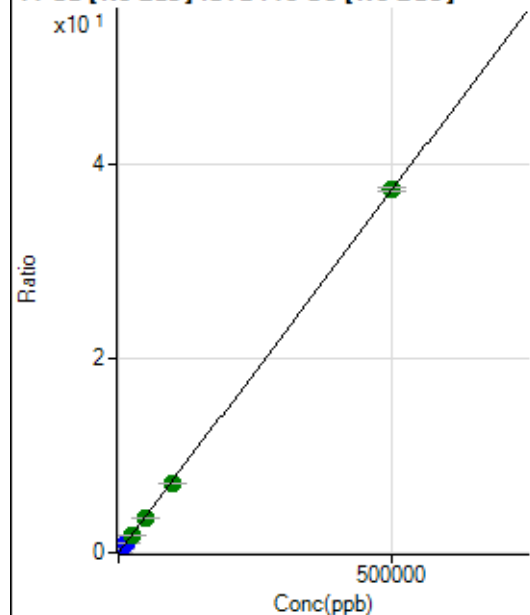
$$y = 4.6436\text{E-}006 * x + 9.1440\text{E-}005$$

$$R = 1.0000$$

$$DL = 4.866$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13345.22	0.0040	P	3.9
2	☐	50.000	53.854	26145.73	0.0080	P	1.3
3	☐	500.000	505.019	136535.17	0.0416	P	0.6
4	☐	5000.000	5250.305	1294975.16	0.3953	P	0.6
5	☐	12500.000	12981.308	3199232.13	0.9715	P	0.8
6	☐	25000.000	24334.068	5832899.18	1.8177	A	1.0
7	☐	50000.000	48104.430	11301212.93	3.5894	A	0.8
8	☐	100000.00	96302.917	22257177.93	7.1818	A	1.2
9	☐	500000.00	500947.72	114811653.9	37.3416	A	1.0

$$y = 7.4534\text{E-}005 * x + 0.0040$$

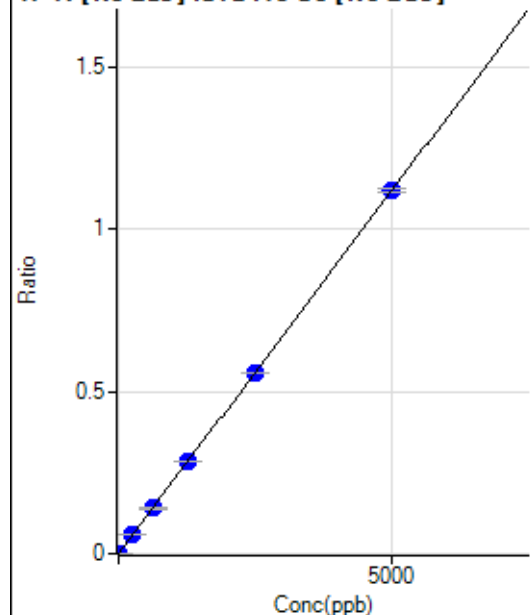
$$R = 1.0000$$

$$DL = 6.226$$

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	86.11	0.0000	P	36.9
2	☐	0.500	0.457	416.69	0.0001	P	38.4
3	☐	5.000	4.990	3742.24	0.0011	P	0.9
4	☐	250.000	252.983	185340.69	0.0566	P	0.7
5	☐	625.000	623.813	459267.85	0.1395	P	1.5
6	☐	1250.000	1263.034	906132.06	0.2824	P	0.4
7	☐	2500.000	2491.577	1753741.16	0.5570	P	0.1
8	☐	5000.000	5000.952	3464693.65	1.1180	P	1.1
9	☐			705.59	0.0002	P	15.9

$$y = 2.2355E-004 * x + 2.5801E-005$$

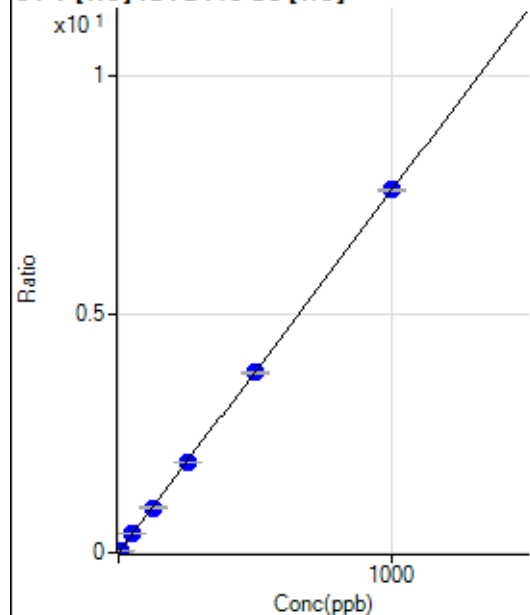
$$R = 1.0000$$

$$DL = 0.1277$$

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	5.55	0.0000	P	125.0
2	☐	0.500	0.496	1091.16	0.0038	P	5.0
3	☐	5.000	4.906	10840.72	0.0372	P	4.2
4	☐	50.000	51.281	111165.40	0.3889	P	2.2
5	☐	125.000	124.396	274488.93	0.9434	P	0.8
6	☐	250.000	248.457	537244.65	1.8842	P	0.4
7	☐	500.000	496.874	1034343.26	3.7680	P	0.7
8	☐	1000.000	1001.961	2076234.48	7.5983	P	0.3
9	☐			286.67	0.0010	P	11.8

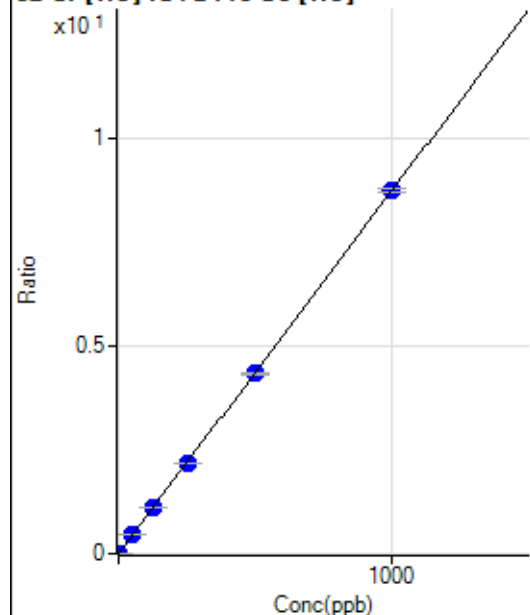
$$y = 0.0076 * x + 1.8837E-005$$

$$R = 1.0000$$

$$DL = 0.009315$$

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	1035.60	0.0035	P	8.5
2	☐	0.200	0.246	1629.00	0.0056	P	9.1
3	☐	2.000	2.047	6230.28	0.0214	P	3.0
4	☐	50.000	52.282	131629.20	0.4605	P	2.7
5	☐	125.000	126.125	321809.74	1.1060	P	1.2
6	☐	250.000	250.158	624497.63	2.1902	P	0.4
7	☐	500.000	497.406	1194495.76	4.3514	P	1.2
8	☐	1000.000	1001.003	2391950.76	8.7535	P	0.9
9	☐			14037.86	0.0500	P	1.8

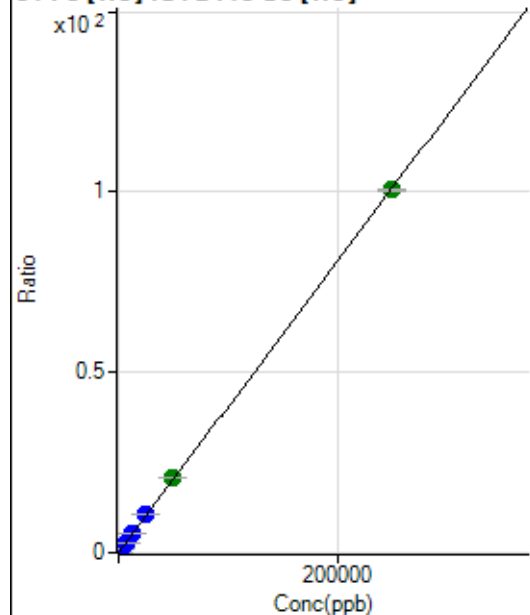
$$y = 0.0087 * x + 0.0035$$

$$R = 1.0000$$

$$DL = 0.1021$$

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	1241.34	0.0042	P	7.9
2	☐	5.000	6.857	2005.55	0.0070	P	12.5
3	☐	50.000	56.949	7906.97	0.0271	P	1.8
4	☐	2500.000	2766.384	319890.90	1.1192	P	2.7
5	☐	6250.000	6687.499	785518.39	2.6996	P	1.0
6	☐	12500.000	13319.578	1531938.07	5.3727	P	0.3
7	☐	25000.000	26359.039	2917424.07	10.6283	P	1.4
8	☐	50000.000	51823.619	5708736.87	20.8919	A	0.5
9	☐	250000.00	249444.79	28205951.83	100.5439	A	0.6

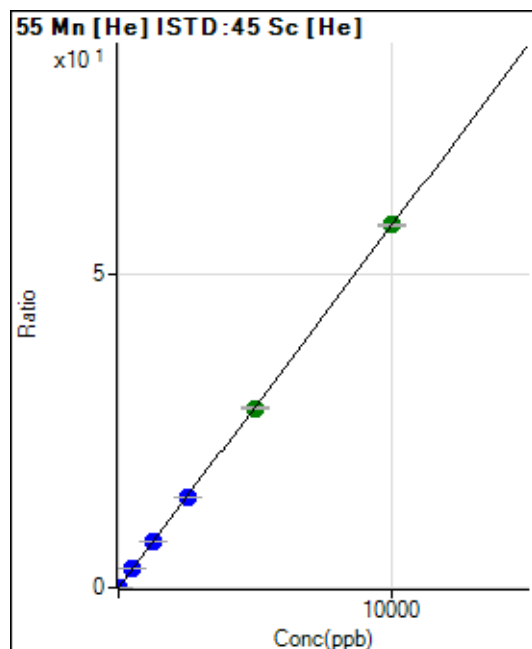
$$y = 4.0305E-004 * x + 0.0042$$

$$R = 1.0000$$

$$DL = 2.463$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0002	P	11.8
2	☐	0.100	0.097	211.12	0.0007	P	20.2
3	☐	1.000	1.013	1754.57	0.0060	P	8.1
4	☐	500.000	523.728	865711.49	3.0287	P	2.5
5	☐	1250.000	1259.729	2119605.60	7.2848	P	1.1
6	☐	2500.000	2498.019	4118828.27	14.4454	P	0.3
7	☐	5000.000	4950.731	7858502.80	28.6286	A	1.1
8	☐	10000.000	10022.727	15836783.09	57.9582	A	0.3
9	☐			10076.87	0.0359	P	2.1

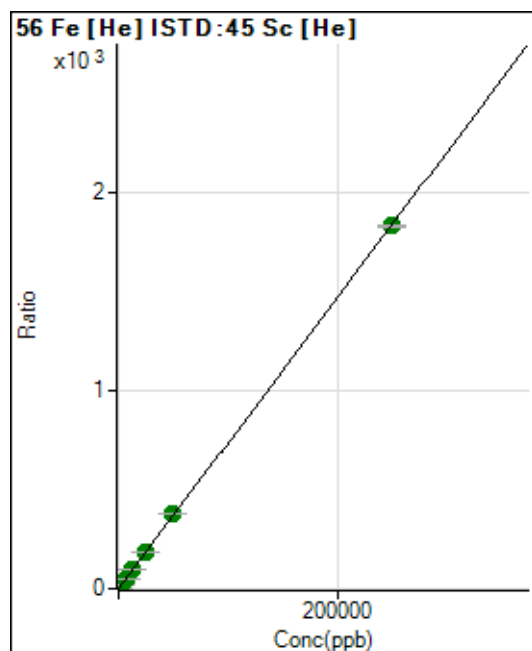
$$y = 0.0058 * x + 1.6895E-004$$

$$R = 1.0000$$

$$DL = 0.01033$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5882.74	0.0199	P	2.8
2	☐	5.000	5.334	17013.74	0.0590	P	1.1
3	☐	50.000	51.783	116293.41	0.3993	P	1.3
4	☐	2500.000	2640.692	5535226.40	19.3661	A	2.9
5	☐	6250.000	6354.897	13551874.61	46.5772	A	1.7
6	☐	12500.000	12724.615	26586502.91	93.2430	A	0.3
7	☐	25000.000	25244.810	50774287.71	184.9686	A	1.1
8	☐	50000.000	51478.583	103061096.7	377.1626	A	0.7
9	☐	250000.00	249664.54	513134807.7	1,829.114	A	0.4

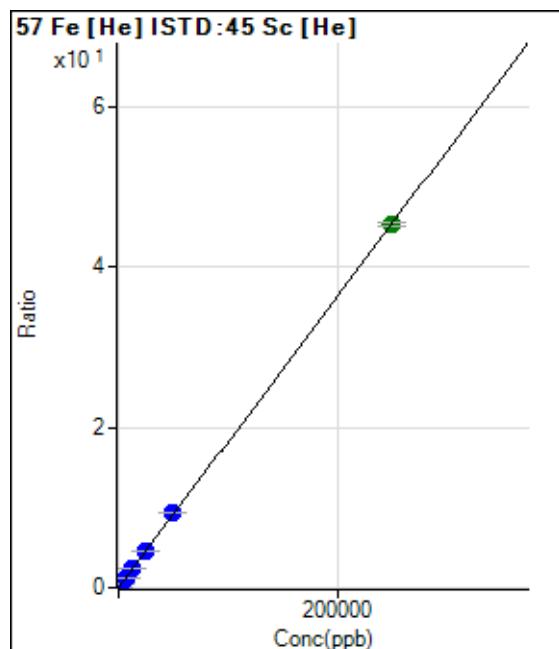
$$y = 0.0073 * x + 0.0199$$

$$R = 1.0000$$

$$DL = 0.23$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	300.01	0.0010	P	22.5
2	☐	5.000	4.573	531.50	0.0018	P	4.1
3	☐	50.000	53.679	3130.02	0.0107	P	2.7
4	☐	2500.000	2695.972	139993.87	0.4898	P	3.1
5	☐	6250.000	6470.923	341652.83	1.1742	P	1.4
6	☐	12500.000	12873.464	665795.55	2.3351	P	0.5
7	☐	25000.000	25681.402	1278433.39	4.6572	P	0.8
8	☐	50000.000	51832.389	2568222.02	9.3986	P	0.9
9	☐	250000.00	249539.22	12692364.98	45.2443	A	1.0

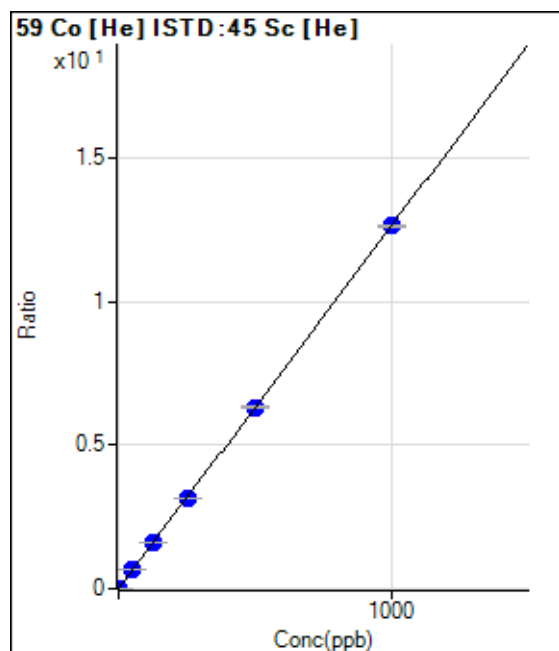
$$y = 1.8131\text{E-}004 * x + 0.0010$$

$$R = 1.0000$$

$$DL = 3.771$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0002	P	37.5
2	☐	0.100	0.091	378.90	0.0013	P	1.8
3	☐	1.000	1.022	3809.42	0.0131	P	3.6
4	☐	50.000	52.756	190591.64	0.6668	P	2.7
5	☐	125.000	126.856	466454.17	1.6032	P	1.2
6	☐	250.000	251.115	904822.86	3.1733	P	0.3
7	☐	500.000	499.063	1731155.17	6.3065	P	1.2
8	☐	1000.000	999.820	3452339.08	12.6342	P	0.7
9	☐			5242.09	0.0187	P	2.7

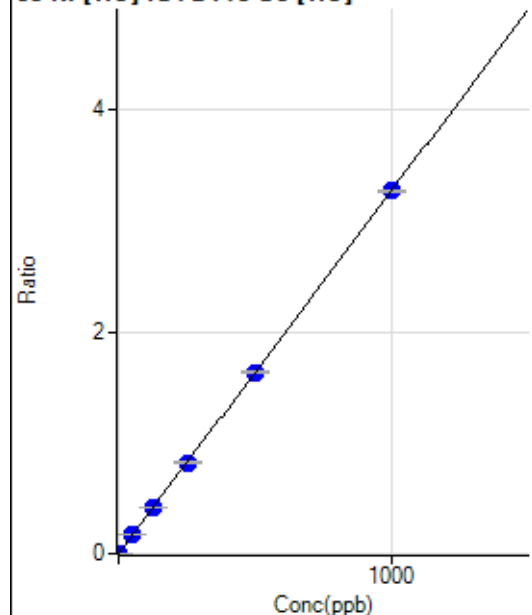
$$y = 0.0126 * x + 1.6913\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.01506$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	68.89	0.0002	P	7.0
2	☐	0.100	0.092	153.33	0.0005	P	23.3
3	☐	1.000	1.047	1065.61	0.0037	P	3.5
4	☐	50.000	52.721	49403.93	0.1728	P	2.3
5	☐	125.000	127.812	121802.29	0.4186	P	1.7
6	☐	250.000	251.433	234754.93	0.8233	P	0.6
7	☐	500.000	498.924	448401.70	1.6335	P	1.2
8	☐	1000.000	999.692	894304.61	3.2728	P	0.5
9	☐			3684.94	0.0131	P	3.1

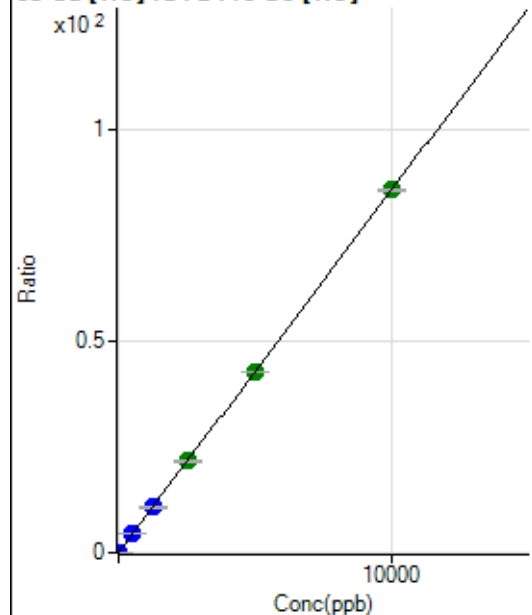
$$y = 0.0033 * x + 2.3266E-004$$

$$R = 1.0000$$

$$DL = 0.01494$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1395.64	0.0047	P	3.8
2	☐	0.200	0.190	1831.25	0.0063	P	5.1
3	☐	2.000	2.058	6514.85	0.0224	P	0.9
4	☐	500.000	517.349	1269531.89	4.4420	P	3.2
5	☐	1250.000	1247.957	3115720.58	10.7084	P	1.3
6	☐	2500.000	2520.601	6165588.45	21.6238	A	0.4
7	☐	5000.000	4984.971	11738095.38	42.7605	A	0.8
8	☐	10000.000	10001.752	23442272.71	85.7892	A	0.8
9	☐			13104.81	0.0467	P	1.8

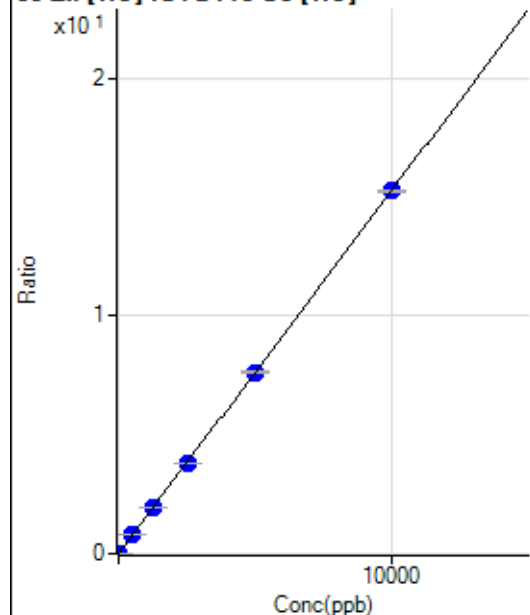
$$y = 0.0086 * x + 0.0047$$

$$R = 1.0000$$

$$DL = 0.06257$$

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	115.56	0.0004	P	4.0
2	☐	0.200	0.182	193.34	0.0007	P	21.8
3	☐	2.000	2.175	1080.05	0.0037	P	6.0
4	☐	500.000	522.739	228092.81	0.7981	P	3.0
5	☐	1250.000	1265.511	562011.04	1.9315	P	1.0
6	☐	2500.000	2502.881	1089101.45	3.8196	P	0.3
7	☐	5000.000	4996.344	2092955.47	7.6245	P	0.9
8	☐	10000.000	9998.032	4168932.54	15.2568	P	0.3
9	☐			5054.25	0.0180	P	3.2

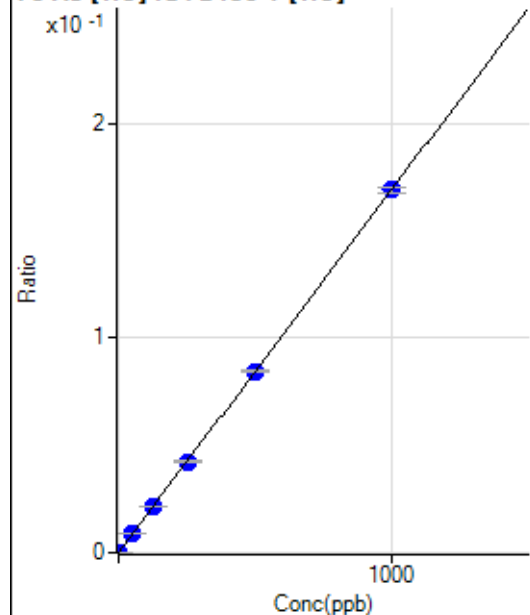
$$y = 0.0015 * x + 3.9032E-004$$

$$R = 1.0000$$

$$DL = 0.03098$$

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	20.99	0.0000	P	33.5
2	☒	0.100					
3	☐	1.000	0.990	352.47	0.0002	P	4.9
4	☐	50.000	52.278	17182.39	0.0088	P	1.4
5	☐	125.000	126.703	42417.06	0.0214	P	1.3
6	☐	250.000	250.686	82591.70	0.0423	P	1.2
7	☐	500.000	498.887	159548.24	0.0843	P	1.3
8	☐	1000.000	1000.058	321295.28	0.1689	P	1.4
9	☐			163.58	0.0001	P	10.5

$$y = 1.6888E-004 * x + 1.0553E-005$$

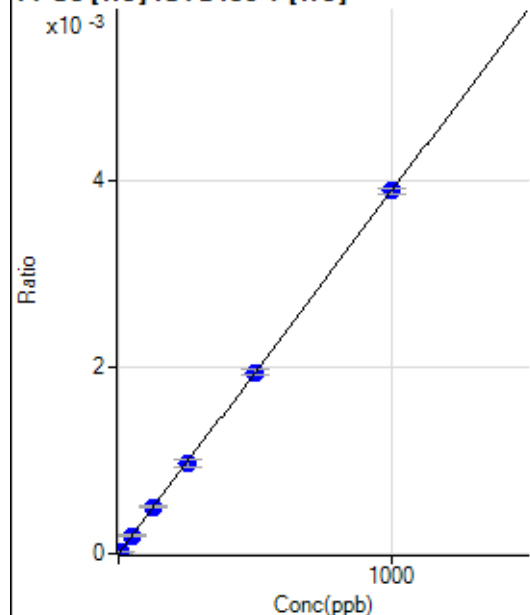
$$R = 1.0000$$

$$DL = 0.06282$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	0.500	1.011	8.89	0.0000	P	77.9
3	☐	5.000	3.749	30.00	0.0000	P	29.4
4	☐	50.000	48.924	371.12	0.0002	P	8.8
5	☐	125.000	127.981	986.72	0.0005	P	5.1
6	☐	250.000	247.284	1875.70	0.0010	P	8.3
7	☐	500.000	500.258	3683.84	0.0019	P	3.3
8	☐	1000.000	1000.238	7398.61	0.0039	P	1.5
9	☐			4.44	0.0000	P	114.9

$$y = 3.8876\text{E-}006 * x + 5.6209\text{E-}007$$

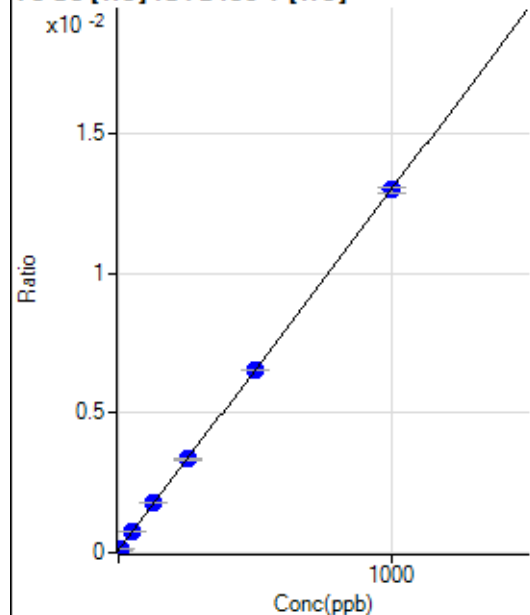
$$R = 1.0000$$

$$DL = 0.7513$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	181.49	0.0001	P	7.7
2	☐	0.500	1.142	209.26	0.0001	P	2.3
3	☐	5.000	5.218	314.82	0.0002	P	13.9
4	☐	50.000	52.466	1497.00	0.0008	P	1.8
5	☐	125.000	130.881	3535.02	0.0018	P	2.9
6	☐	250.000	252.016	6536.06	0.0034	P	3.3
7	☐	500.000	500.887	12442.40	0.0066	P	0.2
8	☐	1000.000	998.192	24737.08	0.0130	P	1.6
9	☐			166.67	0.0001	P	6.4

$$y = 1.2936\text{E-}005 * x + 9.1278\text{E-}005$$

$$R = 1.0000$$

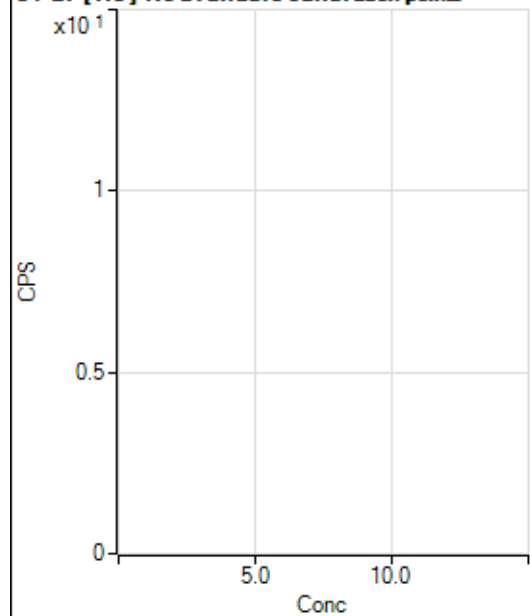
$$DL = 1.634$$

Weight: <None>

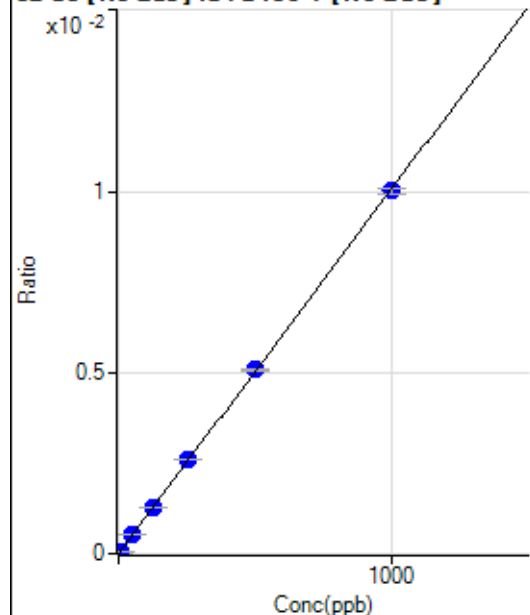
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2997.62		P	4.1
2	☐			2886.47		P	0.9
3	☐			2978.18		P	8.7
4	☐			3167.11		P	1.2
5	☐			3236.58		P	1.6
6	☐			3061.51		P	0.8
7	☐			2933.71		P	5.2
8	☐			3206.01		P	4.7
9	☐			3236.55		P	4.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.08		P	75.0
2	☐			60.06		P	44.1
3	☐			60.06		P	50.0
4	☐			103.44		P	24.4
5	☐			96.76		P	11.9
6	☐			113.45		P	39.8
7	☐			126.80		P	18.2
8	☐			146.82		P	14.2
9	☐			270.28		P	25.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-4.78	0.0000	P	-1181.
2	☐	0.500	0.566	38.52	0.0000	P	49.8
3	☐	5.000	5.266	395.33	0.0001	P	5.4
4	☐	50.000	52.033	3990.60	0.0005	P	0.4
5	☐	125.000	127.609	9827.45	0.0013	P	1.0
6	☐	250.000	258.364	19494.67	0.0026	P	1.1
7	☐	500.000	504.841	37718.92	0.0051	P	0.9
8	☐	1000.000	995.059	74407.75	0.0100	P	1.5
9	☐			40.16	0.0000	P	80.8

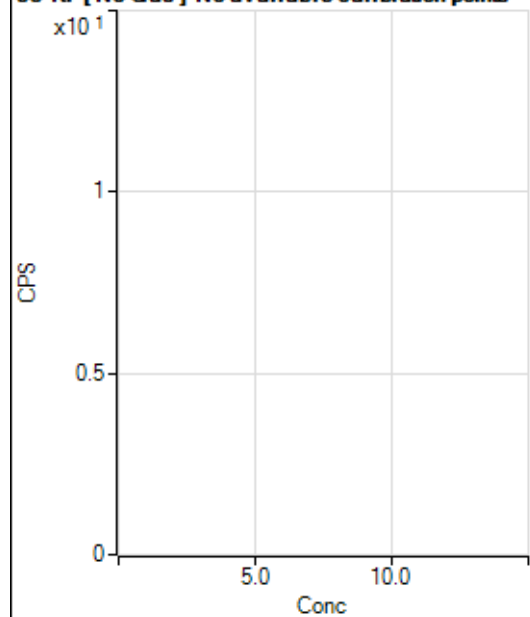
$$y = 1.0067E-005 * x - 6.0939E-007$$

$$R = 0.9999$$

$$DL = 2.145$$

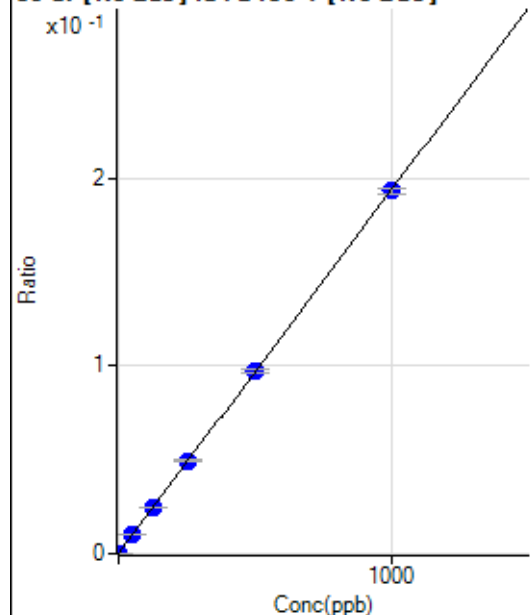
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			731.14		P	3.7
2	☐			746.69		P	3.9
3	☐			724.47		P	4.2
4	☐			745.58		P	4.3
5	☐			731.14		P	7.4
6	☐			736.69		P	8.0
7	☐			725.58		P	5.1
8	☐			700.02		P	6.6
9	☐			691.14		P	4.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1113.96	0.0001	P	6.1
2	☐	0.100	0.177	1350.10	0.0002	P	5.9
3	☐	1.000	1.088	2675.32	0.0004	P	5.1
4	☐	50.000	50.682	75888.77	0.0099	P	1.7
5	☐	125.000	126.851	188962.28	0.0247	P	0.6
6	☐	250.000	254.870	370752.37	0.0495	P	1.0
7	☐	500.000	502.657	722840.36	0.0974	P	1.5
8	☐	1000.000	997.188	1434185.45	0.1931	P	1.3
9	☐			9672.93	0.0013	P	0.8

$$y = 1.9347\text{E-}004 * x + 1.4422\text{E-}004$$

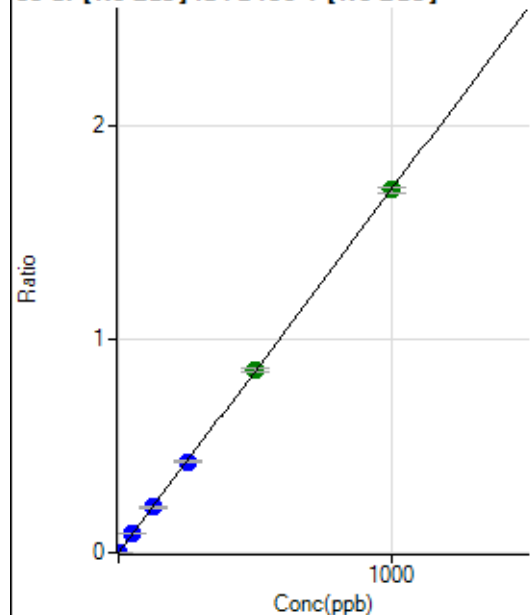
$$R = 1.0000$$

$$DL = 0.1357$$

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	80.56	0.0000	P	52.2
2	☐	0.100	0.096	1319.54	0.0002	P	7.1
3	☐	1.000	1.039	13417.70	0.0018	P	3.4
4	☐	50.000	50.492	655873.77	0.0860	P	0.6
5	☐	125.000	125.199	1631765.63	0.2132	P	1.3
6	☐	250.000	250.713	3200749.68	0.4269	P	0.8
7	☐	500.000	502.393	6349718.85	0.8555	A	1.2
8	☐	1000.000	998.576	12631570.77	1.7005	A	1.4
9	☐			75338.99	0.0102	P	1.4

$$y = 0.0017 * x + 1.0435\text{E-}005$$

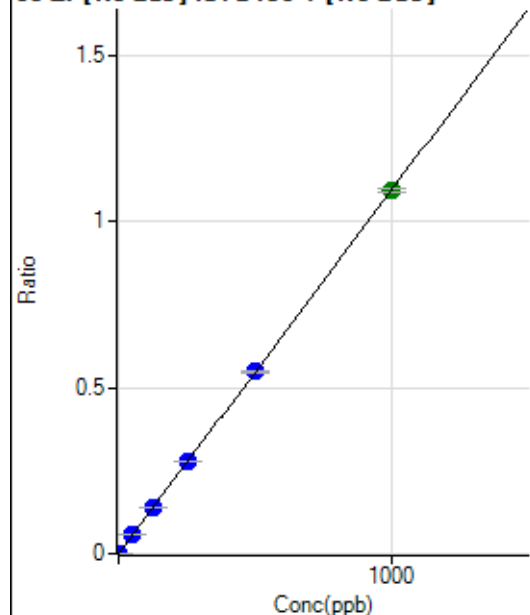
$$R = 1.0000$$

$$DL = 0.009605$$

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	361.12	0.0000	P	24.3
2	☐	0.100	0.097	1155.64	0.0002	P	10.8
3	☐	1.000	1.030	8858.53	0.0012	P	5.5
4	☐	50.000	50.604	422897.79	0.0554	P	1.3
5	☐	125.000	126.132	1057163.79	0.1381	P	1.1
6	☐	250.000	253.173	2078244.66	0.2772	P	0.6
7	☐	500.000	501.553	4075801.35	0.5491	P	0.9
8	☐	1000.000	998.259	8118438.46	1.0929	A	1.2
9	☐			2928.15	0.0004	P	3.1

$$y = 0.0011 * x + 4.6748E-005$$

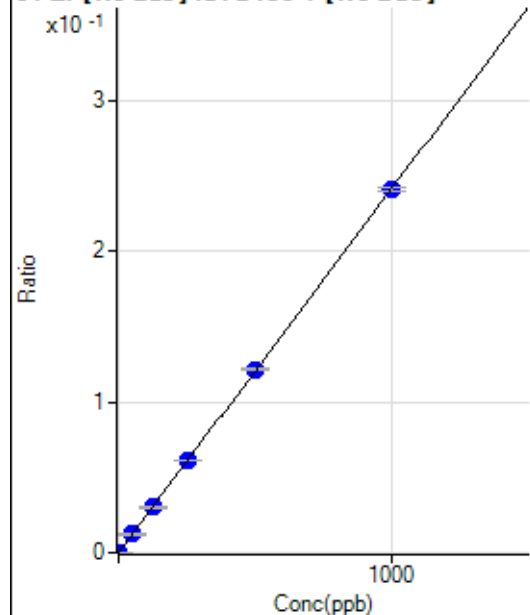
$$R = 1.0000$$

$$DL = 0.03113$$

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	69.44	0.0000	P	38.6
2	☐	0.100	0.103	255.57	0.0000	P	6.7
3	☐	1.000	1.073	2022.42	0.0003	P	8.1
4	☐	50.000	50.640	93302.13	0.0122	P	2.0
5	☐	125.000	124.967	230926.05	0.0302	P	1.3
6	☐	250.000	252.896	457727.36	0.0611	P	0.6
7	☐	500.000	503.331	901838.62	0.1215	P	1.1
8	☐	1000.000	997.582	1788842.14	0.2408	P	1.0
9	☐			672.26	0.0001	P	15.5

$$y = 2.4139E-004 * x + 8.9918E-006$$

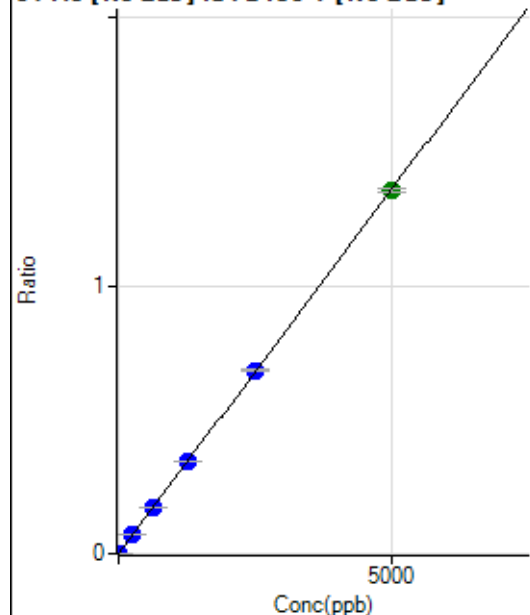
$$R = 1.0000$$

$$DL = 0.04315$$

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	88.89	0.0000	P	14.2
2	☐	0.500	0.466	1044.51	0.0001	P	13.3
3	☐	5.000	4.946	10226.14	0.0014	P	0.4
4	☐	250.000	252.612	523760.98	0.0687	P	0.8
5	☐	625.000	632.454	1315608.45	0.1719	P	2.1
6	☐	1250.000	1275.463	2599037.71	0.3467	P	0.2
7	☐	2500.000	2521.598	5086848.77	0.6854	P	1.2
8	☐	5000.000	4981.773	10058206.04	1.3540	A	1.2
9	☐			3761.70	0.0005	P	2.8

$$y = 2.7180E-004 * x + 1.1508E-005$$

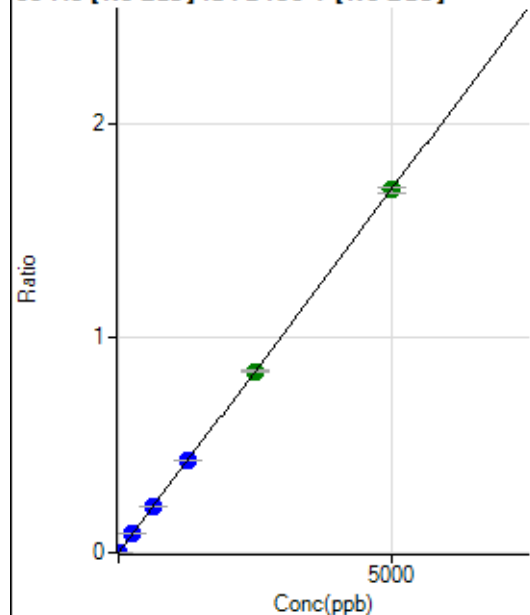
$$R = 1.0000$$

$$DL = 0.01801$$

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	25.00	0.0000	P	88.4
2	☐	0.500	0.483	1261.20	0.0002	P	4.7
3	☐	5.000	4.909	12547.44	0.0017	P	1.6
4	☐	250.000	253.188	653122.34	0.0856	P	1.1
5	☐	625.000	630.112	1630828.70	0.2131	P	1.9
6	☐	1250.000	1268.133	3215289.63	0.4289	P	0.4
7	☐	2500.000	2499.090	6272857.87	0.8452	A	1.8
8	☐	5000.000	4995.123	12548817.03	1.6893	A	1.3
9	☐			4420.24	0.0006	P	8.0

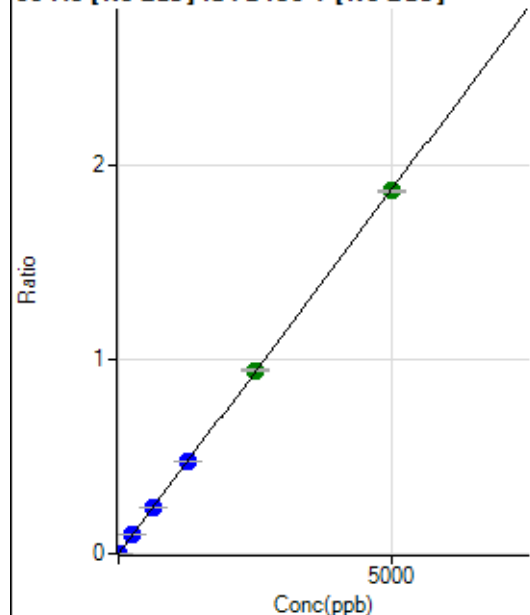
$$y = 3.3820E-004 * x + 3.2416E-006$$

$$R = 1.0000$$

$$DL = 0.02541$$

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	50.00	0.0000	P	43.8
2	☐	0.500	0.523	1533.46	0.0002	P	3.3
3	☐	5.000	5.004	14201.86	0.0019	P	2.0
4	☐	250.000	255.420	730623.52	0.0958	P	1.0
5	☐	625.000	635.207	1823027.88	0.2382	P	1.5
6	☐	1250.000	1273.811	3581231.16	0.4777	P	0.9
7	☐	2500.000	2516.692	7005529.50	0.9438	A	1.1
8	☐	5000.000	4984.154	13884411.42	1.8691	A	0.6
9	☐			5829.12	0.0008	P	4.2

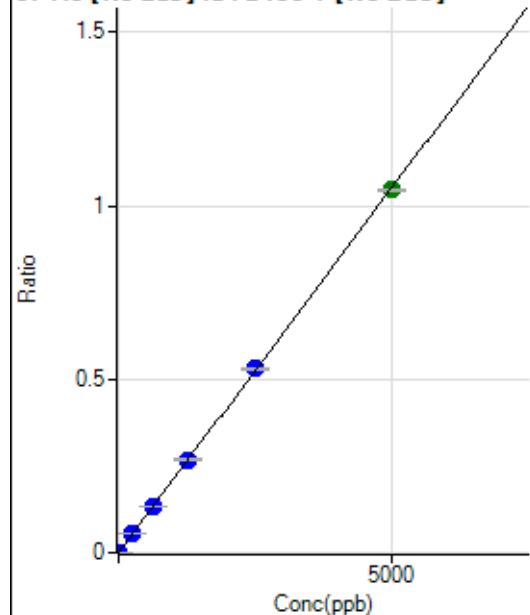
$$y = 3.7501\text{E-}004 * x + 6.4696\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.02268$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	89.1
2	☐	0.500	0.526	855.61	0.0001	P	4.2
3	☐	5.000	4.909	7799.54	0.0010	P	1.2
4	☐	250.000	256.281	410783.39	0.0539	P	1.1
5	☐	625.000	632.711	1017549.01	0.1330	P	1.4
6	☐	1250.000	1279.669	2016016.13	0.2689	P	0.7
7	☐	2500.000	2526.311	3940346.44	0.5309	P	0.9
8	☐	5000.000	4978.149	7770886.55	1.0461	A	0.6
9	☐			2797.57	0.0004	P	7.1

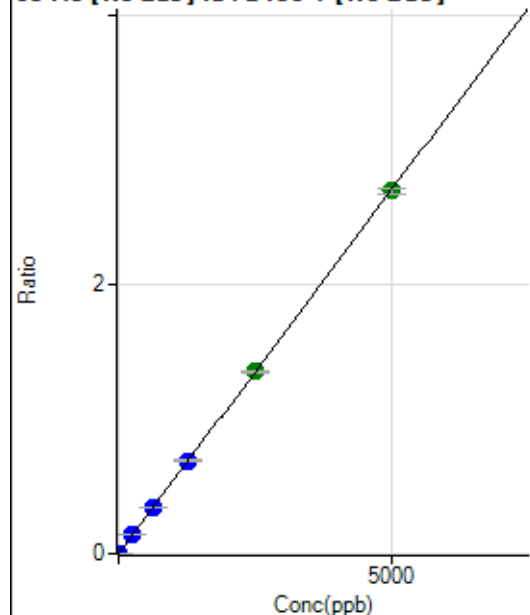
$$y = 2.1014\text{E-}004 * x + 2.5159\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.03201$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.22	0.0000	P	20.1
2	☐	0.500	0.502	2100.21	0.0003	P	7.5
3	☐	5.000	4.896	20031.12	0.0027	P	2.6
4	☐	250.000	254.892	1052054.20	0.1379	P	1.1
5	☐	625.000	635.608	2632361.56	0.3440	P	1.4
6	☐	1250.000	1281.499	5198796.38	0.6935	P	0.7
7	☐	2500.000	2506.981	10068882.95	1.3566	A	1.0
8	☐	5000.000	4987.064	20046234.30	2.6986	A	1.4
9	☐			7613.33	0.0010	P	2.5

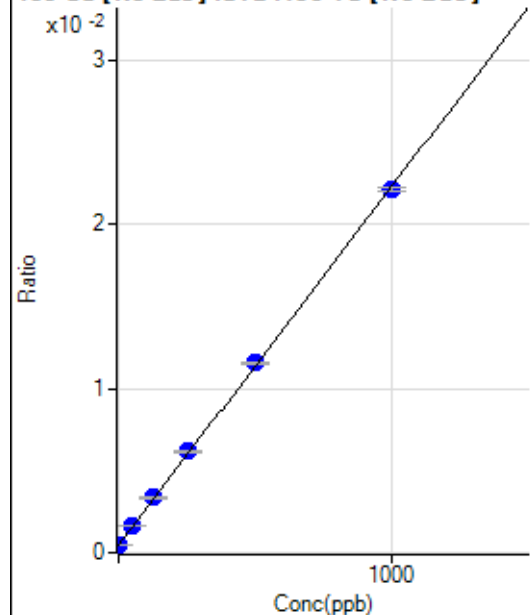
$$y = 5.4113\text{E-}004 * x + 6.1124\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.006807$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2675.31	0.0005	P	1.6
2	☐	0.100	-0.769	2503.07	0.0004	P	11.2
3	☐	1.000	1.962	2847.57	0.0005	P	3.2
4	☐	50.000	53.119	9320.01	0.0016	P	3.7
5	☐	125.000	132.676	19700.23	0.0034	P	1.9
6	☐	250.000	262.086	35784.47	0.0062	P	1.7
7	☐	500.000	509.275	67510.52	0.0116	P	0.8
8	☐	1000.000	991.225	129308.79	0.0221	P	0.9
9	☐			2653.11	0.0005	P	10.3

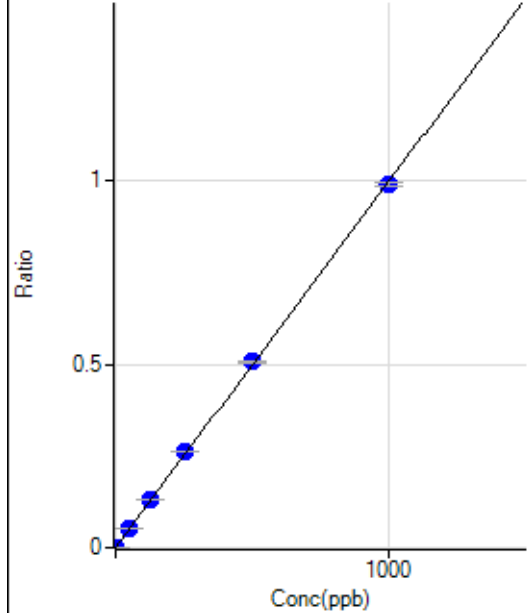
$$y = 2.1852\text{E-}005 * x + 4.5647\text{E-}004$$

$$R = 0.9998$$

$$DL = 1.021$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0000	P	65.9
2	☐	0.100	0.094	563.92	0.0001	P	7.5
3	☐	1.000	1.028	5879.14	0.0010	P	6.6
4	☐	50.000	53.789	309106.07	0.0536	P	1.5
5	☐	125.000	131.697	771021.09	0.1313	P	1.5
6	☐	250.000	262.868	1516855.82	0.2621	P	0.2
7	☐	500.000	507.798	2950727.56	0.5064	P	0.9
8	☐	1000.000	991.857	5782488.63	0.9891	P	1.0
9	☐			2358.58	0.0004	P	2.6

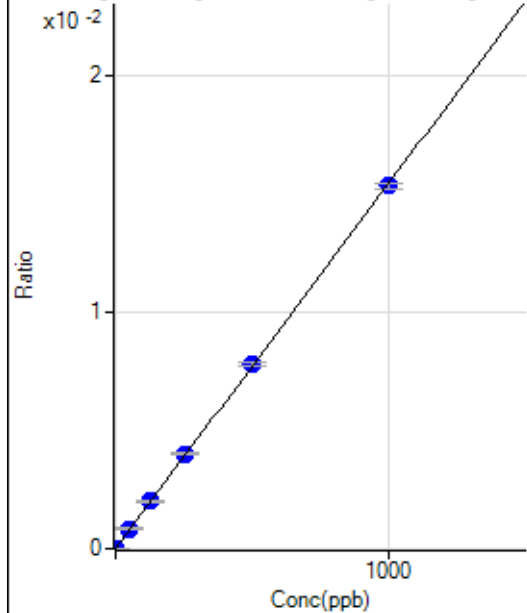
$$y = 9.9717\text{E-}004 * x + 5.6816\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01126$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	60.4
2	☐	0.100	0.197	38.89	0.0000	P	6.3
3	☐	1.000	1.112	119.45	0.0000	P	7.5
4	☐	50.000	53.987	4823.10	0.0008	P	5.5
5	☐	125.000	129.429	11745.21	0.0020	P	3.1
6	☐	250.000	259.844	23224.58	0.0040	P	0.7
7	☐	500.000	505.853	45507.32	0.0078	P	1.7
8	☐	1000.000	993.860	89684.29	0.0153	P	1.5
9	☐			66.67	0.0000	P	16.5

$$y = 1.5431\text{E-}005 * x + 3.7935\text{E-}006$$

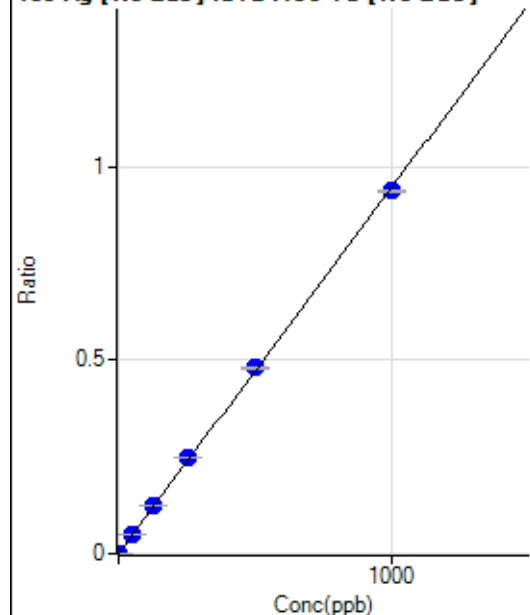
$$R = 0.9999$$

$$DL = 0.4456$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	0.100	0.097	525.02	0.0001	P	13.2
3	☐	1.000	1.060	5717.98	0.0010	P	1.4
4	☐	50.000	53.788	292961.93	0.0508	P	1.4
5	☐	125.000	132.082	733009.31	0.1248	P	1.2
6	☐	250.000	263.411	1440777.62	0.2490	P	0.5
7	☐	500.000	507.950	2797862.80	0.4801	P	0.7
8	☐	1000.000	991.598	5479863.10	0.9373	P	0.9
9	☐			2203.01	0.0004	P	3.4

$$y = 9.4524\text{E-}004 * x + 9.4708\text{E-}007$$

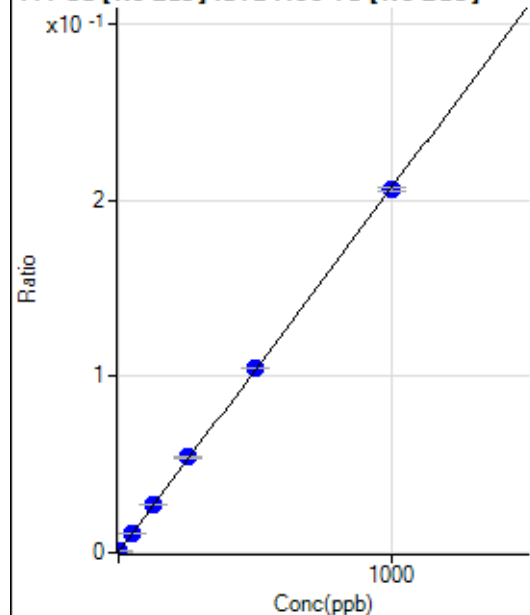
$$R = 0.9998$$

$$DL = 0.002603$$

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	1882.16	0.0003	P	2.0
2	☒	0.100					
3	☐	1.000	1.136	3170.88	0.0006	P	1.4
4	☐	50.000	52.626	64560.41	0.0112	P	1.3
5	☐	125.000	130.745	160633.28	0.0274	P	1.1
6	☐	250.000	259.791	312748.93	0.0540	P	0.5
7	☐	500.000	504.368	609683.31	0.1046	P	0.3
8	☐	1000.000	994.519	1204305.67	0.2060	P	1.0
9	☐			2384.14	0.0004	P	5.7

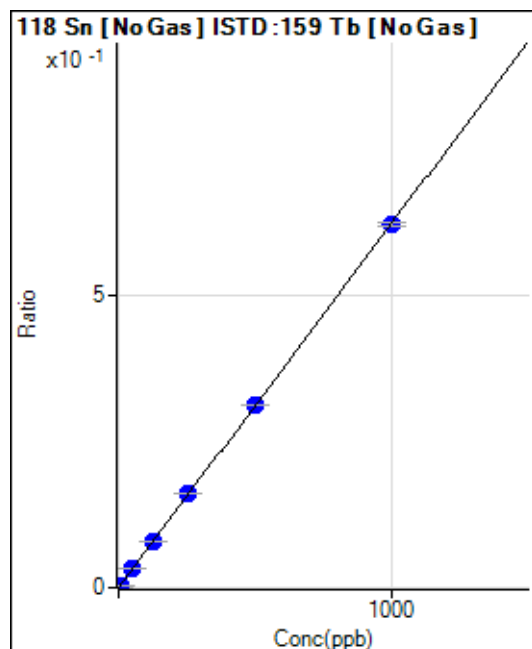
$$y = 2.0680\text{E-}004 * x + 3.2114\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.09226$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	622.25	0.0001	P	2.9
2	☐	0.500	0.515	2428.04	0.0004	P	3.6
3	☐	5.000	5.248	19224.70	0.0034	P	1.2
4	☐	50.000	52.748	189672.68	0.0329	P	0.8
5	☐	125.000	128.618	470385.80	0.0801	P	0.5
6	☐	250.000	258.320	930481.57	0.1608	P	1.1
7	☐	500.000	502.073	1820522.28	0.3124	P	0.8
8	☐	1000.000	996.293	3623866.14	0.6198	P	0.9
9	☐			2441.95	0.0004	P	4.1

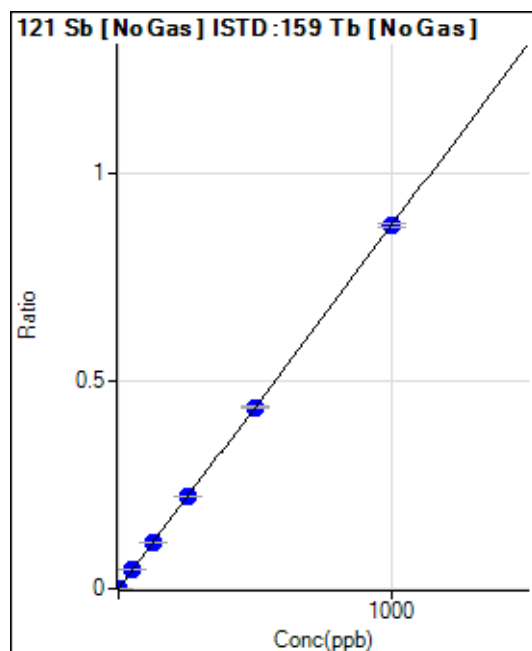
$$y = 6.2204\text{E-}004 * x + 1.0617\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.01484$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	21.0
2	☐	0.200	0.182	966.73	0.0002	P	1.6
3	☐	2.000	2.018	10117.80	0.0018	P	3.8
4	☐	50.000	51.961	261666.53	0.0454	P	0.8
5	☐	125.000	126.656	649860.97	0.1107	P	0.5
6	☐	250.000	255.250	1290658.05	0.2230	P	0.7
7	☐	500.000	499.660	2544133.41	0.4366	P	0.9
8	☐	1000.000	998.553	5101050.94	0.8725	P	0.9
9	☐			3611.68	0.0006	P	3.0

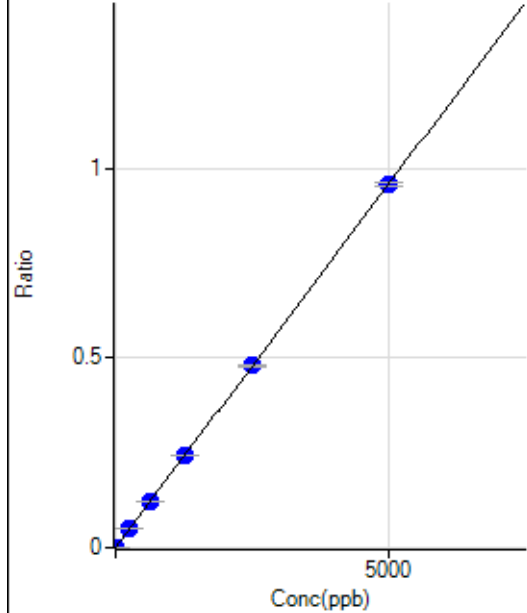
$$y = 8.7377\text{E-}004 * x + 1.0429\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.007506$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	78.2
2	☐	1.000	0.930	1036.18	0.0002	P	3.4
3	☐	10.000	10.361	11346.51	0.0020	P	1.0
4	☐	250.000	258.709	285716.30	0.0496	P	0.3
5	☐	625.000	636.152	715890.98	0.1219	P	0.5
6	☐	1250.000	1275.697	1414842.99	0.2445	P	0.6
7	☐	2500.000	2500.283	2792398.26	0.4792	P	0.2
8	☐	5000.000	4991.604	5593053.94	0.9567	P	1.2
9	☐			1900.18	0.0003	P	4.1

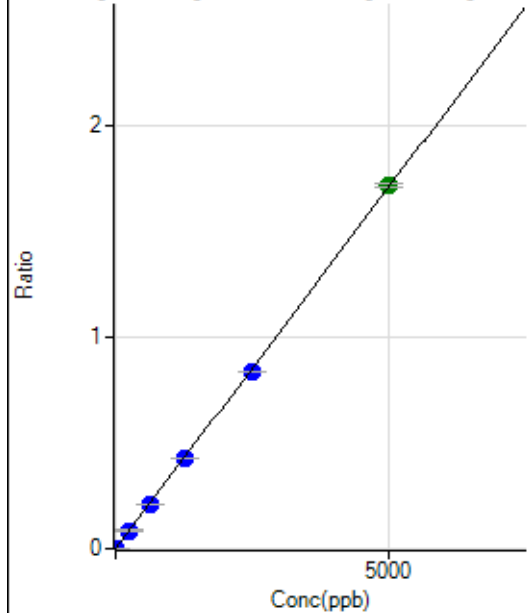
$$y = 1.9165\text{E-}004 * x + 3.7937\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.04645$$

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	25.00	0.0000	P	33.3
2	☐	1.000	0.976	1925.19	0.0003	P	6.7
3	☐	10.000	9.997	19525.32	0.0034	P	2.9
4	☐	250.000	252.547	497701.45	0.0864	P	0.7
5	☐	625.000	620.330	1245682.72	0.2122	P	0.6
6	☐	1250.000	1246.938	2467708.91	0.4265	P	0.6
7	☐	2500.000	2455.213	4893021.38	0.8397	P	0.5
8	☐	5000.000	5023.615	10044664.38	1.7181	A	1.2
9	☐			3336.59	0.0006	P	5.6

$$y = 3.4200\text{E-}004 * x + 4.2651\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01247$$

Weight: <None>

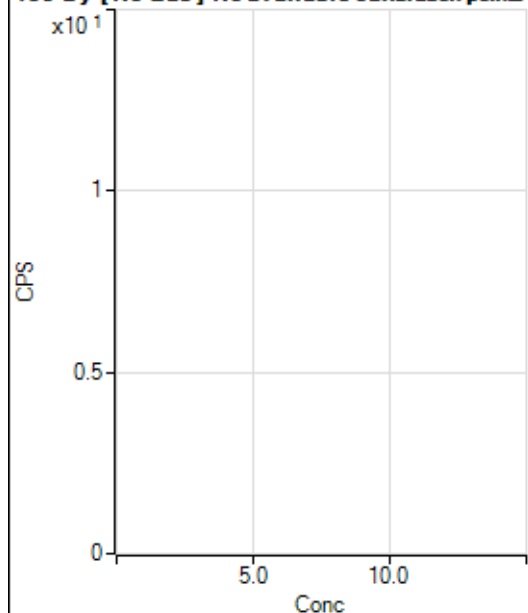
Min Conc: 0

150 Nd [No Gas] No available calibration points

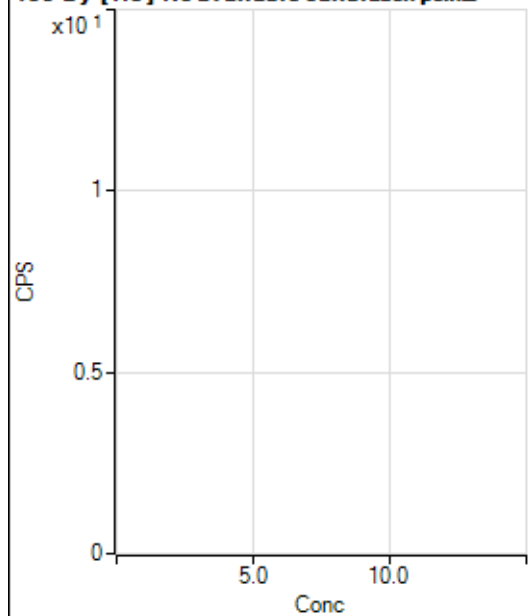
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			6.67		P	100.0
3	☐			6.67		P	0.0
4	☐			17.78		P	21.7
5	☐			37.78		P	36.7
6	☐			73.34		P	31.5
7	☐			146.67		P	4.5
8	☐			280.01		P	12.6
9	☐			31.11		P	12.4

150 Nd [He] No available calibration points

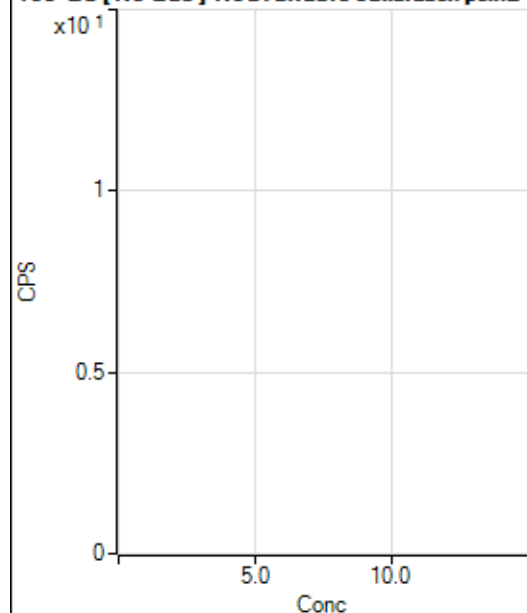
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			3.33		P	100.1
5	☐			12.22		P	56.8
6	☐			27.78		P	50.0
7	☐			30.00		P	0.0
8	☐			60.00		P	38.9
9	☐			16.67		P	87.2

156 Dy [No Gas] No available calibration points

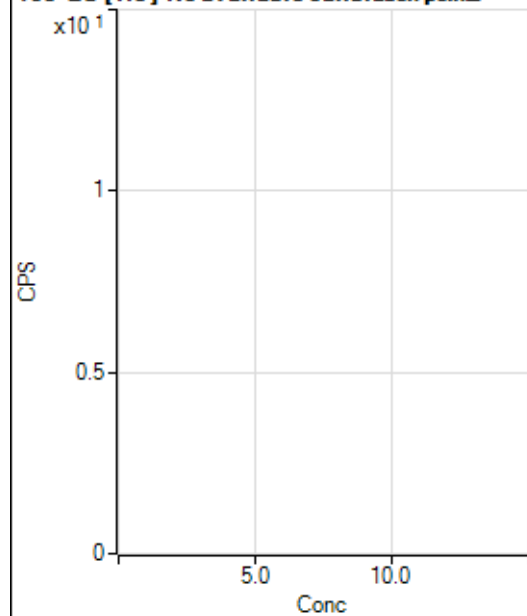
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			22.22		P	21.6
3	☐			0.00		P	
4	☐			30.56		P	83.3
5	☐			47.22		P	27.0
6	☐			105.56		P	29.9
7	☐			136.11		P	24.7
8	☐			363.91		P	12.6
9	☐			1197.31		P	4.0

156 Dy [He] No available calibration points

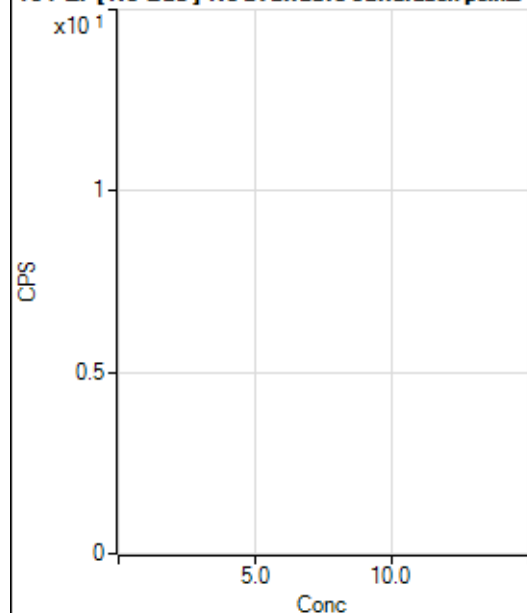
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			3.33		P	0.0
3	☐			10.00		P	57.7
4	☐			20.00		P	60.1
5	☐			40.00		P	22.0
6	☐			70.00		P	29.7
7	☐			106.67		P	11.3
8	☐			244.45		P	12.3
9	☐			901.15		P	3.0

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

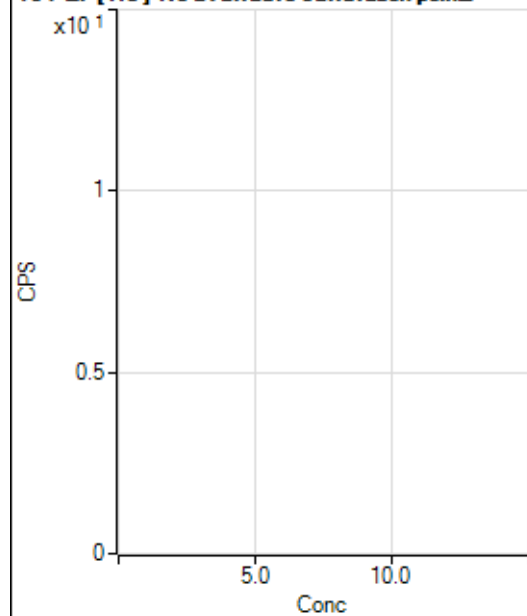
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	40.0
2	☐			41.67		P	20.0
3	☐			30.56		P	83.3
4	☐			61.12		P	34.3
5	☐			91.67		P	27.3
6	☐			119.45		P	42.6
7	☐			183.34		P	20.8
8	☐			319.46		P	21.7
9	☐			1338.99		P	4.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	40.3
2	☐			48.89		P	33.6
3	☐			25.56		P	19.9
4	☐			53.34		P	21.6
5	☐			72.22		P	41.6
6	☐			82.22		P	13.0
7	☐			160.00		P	22.0
8	☐			255.56		P	13.4
9	☐			1025.60		P	3.5

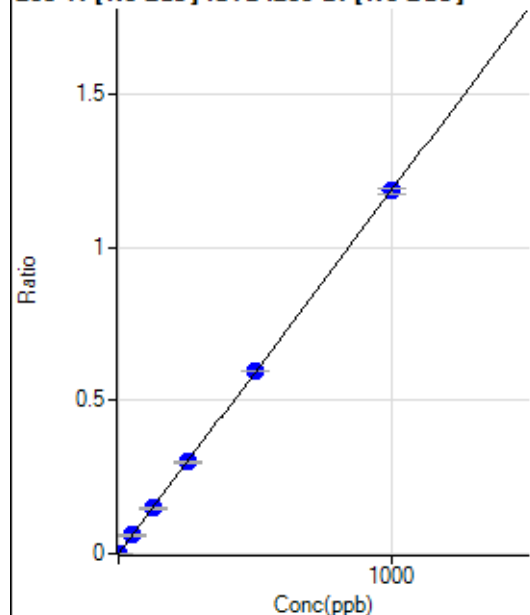
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	94.4
2	☐			30.56		P	31.5
3	☐			19.44		P	49.5
4	☐			38.89		P	49.5
5	☐			38.89		P	32.7
6	☐			22.22		P	86.6
7	☐			83.34		P	36.1
8	☐			83.34		P	17.3
9	☐			175.01		P	14.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	42.9
2	☐			15.55		P	24.8
3	☐			20.00		P	33.4
4	☐			22.22		P	22.9
5	☐			23.33		P	42.9
6	☐			34.44		P	36.6
7	☐			32.22		P	21.5
8	☐			55.55		P	19.3
9	☐			136.67		P	17.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	747.26	0.0002	P	9.9
2	☐	0.100	0.082	1055.63	0.0003	P	7.8
3	☐	1.000	0.948	4548.12	0.0013	P	1.1
4	☐	50.000	50.159	205451.22	0.0598	P	0.6
5	☐	125.000	125.010	517570.67	0.1487	P	1.7
6	☐	250.000	251.814	1026399.69	0.2992	P	1.1
7	☐	500.000	501.930	2052688.96	0.5962	P	0.1
8	☐	1000.000	998.572	4098672.70	1.1859	P	1.6
9	☐			2422.51	0.0007	P	22.3

$$y = 0.0012 * x + 2.1352E-004$$

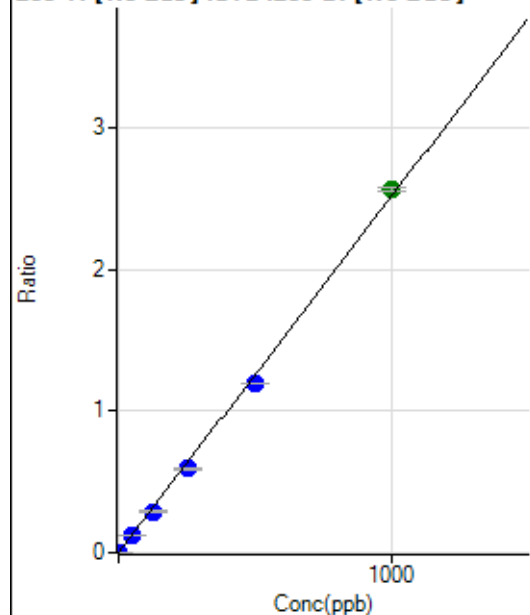
$$R = 1.0000$$

$$DL = 0.05366$$

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	1903.80	0.0005	P	4.5
2	☒	0.100					
3	☐	1.000	0.870	9262.45	0.0027	P	2.5
4	☐	50.000	46.563	403932.40	0.1175	P	1.0
5	☐	125.000	115.430	1011488.62	0.2905	P	1.8
6	☐	250.000	235.176	2028388.41	0.5913	P	0.9
7	☐	500.000	473.656	4098450.29	1.1904	P	0.5
8	☐	1000.000	1018.246	8842647.53	2.5585	A	1.2
9	☐			5055.73	0.0016	P	20.2

$$y = 0.0025 * x + 5.4402E-004$$

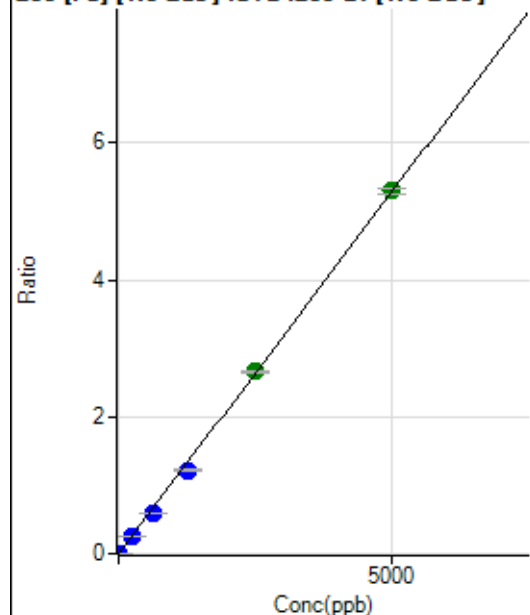
$$R = 0.9994$$

$$DL = 0.02911$$

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	248.16	0.0001	P	8.4
2	☐	0.100	0.080	525.95	0.0002	P	12.3
3	☐	1.000	0.940	3607.96	0.0011	P	1.3
4	☐	250.000	229.586	832546.98	0.2422	P	1.1
5	☐	625.000	567.953	2086107.18	0.5991	P	1.0
6	☐	1250.000	1155.151	4179364.50	1.2184	P	0.9
7	☐	2500.000	2517.487	9141563.40	2.6552	A	0.9
8	☐	5000.000	5023.120	18310052.96	5.2978	A	1.4
9	☐			34117.85	0.0106	P	0.6

$$y = 0.0011 * x + 7.0913E-005$$

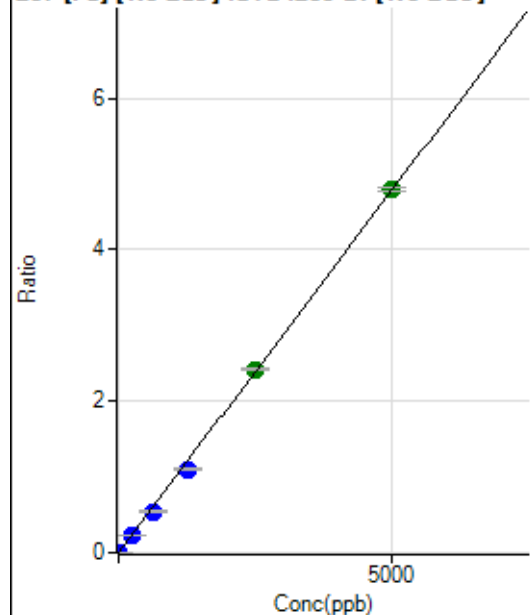
$$R = 0.9998$$

$$DL = 0.017$$

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	233.34	0.0001	P	8.1
2	☐	0.100	0.073	462.98	0.0001	P	5.9
3	☐	1.000	0.857	3005.95	0.0009	P	6.6
4	☐	250.000	227.092	746137.72	0.2171	P	1.1
5	☐	625.000	568.715	1892658.29	0.5435	P	0.9
6	☐	1250.000	1154.448	3784372.51	1.1032	P	0.7
7	☐	2500.000	2537.004	8346896.71	2.4244	A	0.7
8	☐	5000.000	5013.567	16558486.48	4.7909	A	1.1
9	☐			30696.75	0.0095	P	0.9

$$y = 9.5558E-004 * x + 6.6675E-005$$

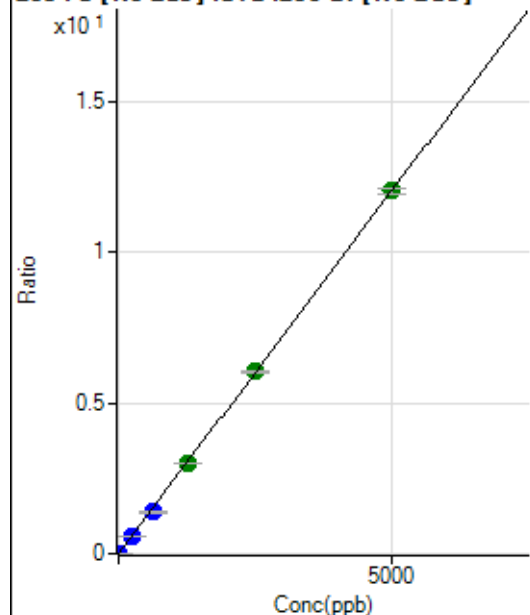
$$R = 0.9997$$

$$DL = 0.01693$$

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	716.63	0.0002	P	3.5
2	☐	0.100	0.076	1313.05	0.0004	P	12.2
3	☐	1.000	0.998	8836.97	0.0026	P	1.2
4	☐	250.000	229.463	1897224.39	0.5519	P	1.4
5	☐	625.000	573.073	4798740.74	1.3782	P	1.6
6	☐	1250.000	1250.208	10312717.54	3.0063	A	0.3
7	☐	2500.000	2506.717	20752576.90	6.0276	A	0.4
8	☐	5000.000	5004.107	41585706.70	12.0326	A	1.7
9	☐			76353.86	0.0237	P	0.5

$$y = 0.0024 * x + 2.0478E-004$$

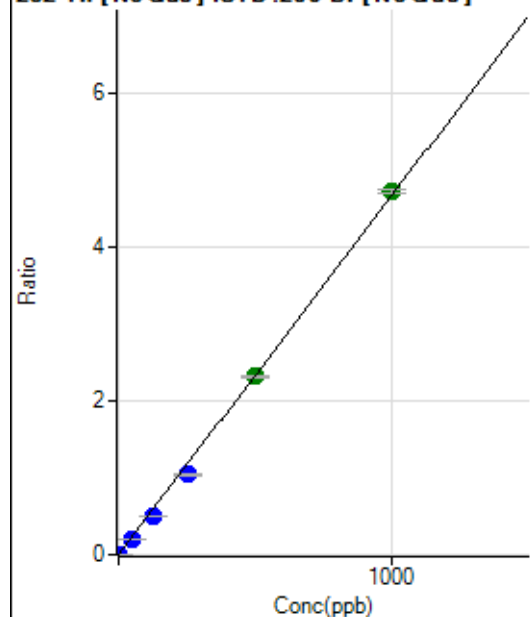
$$R = 0.9999$$

$$DL = 0.00892$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	209.26	0.0001	P	12.9
2	☐	0.100	-0.001	187.04	0.0001	P	13.9
3	☐	1.000	-0.004	146.30	0.0000	P	20.9
4	☐	50.000	43.282	692881.01	0.2016	P	0.7
5	☐	125.000	108.186	1754299.45	0.5038	P	1.1
6	☐	250.000	222.628	3555930.92	1.0366	P	0.7
7	☐	500.000	495.894	7949444.39	2.3089	A	0.5
8	☐	1000.000	1011.335	16274561.13	4.7088	A	1.0
9	☐			4145.19	0.0013	P	5.0

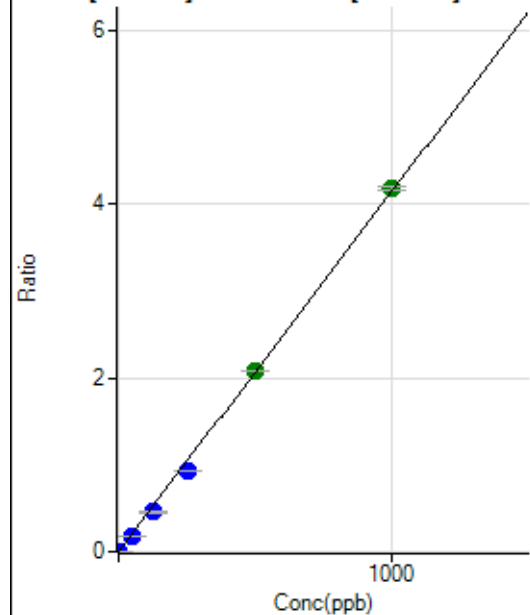
$$y = 0.0047 * x + 5.9791E-005$$

$$R = 0.9995$$

$$DL = 0.004981$$

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	5.56	0.0000	P	173.2
2	☐	0.100	0.088	1244.54	0.0004	P	7.1
3	☐	1.000	0.910	12792.69	0.0038	P	0.4
4	☐	50.000	44.095	627213.44	0.1825	P	1.3
5	☐	125.000	109.774	1581788.96	0.4543	P	1.6
6	☐	250.000	223.649	3174807.38	0.9255	P	0.4
7	☐	500.000	500.391	7129183.32	2.0707	A	0.1
8	☐	1000.000	1008.591	14424974.10	4.1737	A	1.2
9	☐			2119.68	0.0007	P	7.8

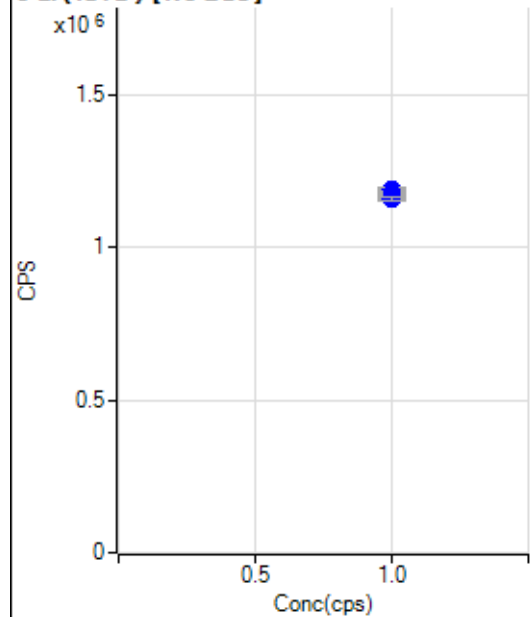
$$y = 0.0041 * x + 1.5851E-006$$

$$R = 0.9996$$

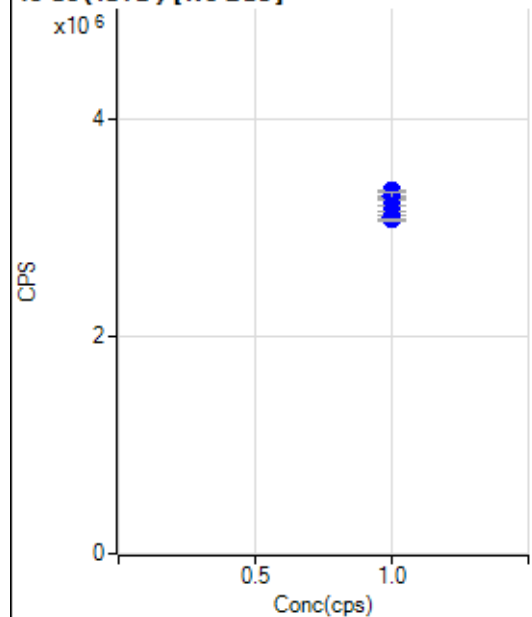
$$DL = 0.00199$$

Weight: <None>

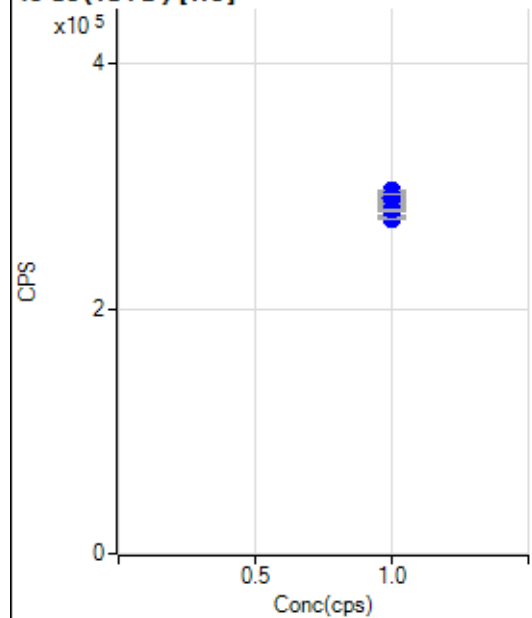
Min Conc: 0

6 Li (ISTD) [No Gas]

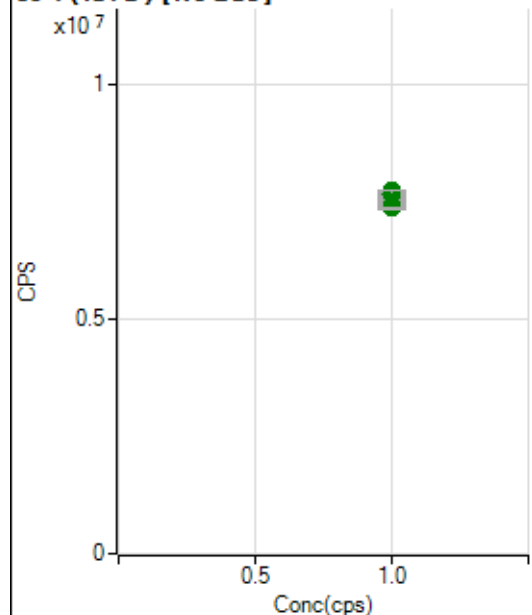
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1186049.51		P	0.5
2	☐	1.000		1169083.54		P	0.3
3	☐	1.000		1170085.50		P	0.7
4	☐	1.000		1179052.40		P	0.5
5	☐	1.000		1186973.23		P	1.3
6	☐	1.000		1179267.20		P	0.4
7	☐	1.000		1167896.03		P	0.7
8	☐	1.000		1158036.63		P	0.1
9	☐	1.000		1159903.61		P	1.1

45 Sc (ISTD) [No Gas]

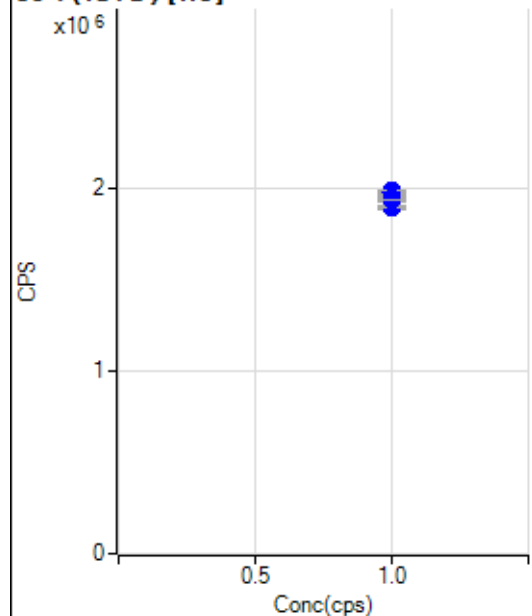
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3340689.39		P	0.6
2	☐	1.000		3264267.21		P	0.9
3	☐	1.000		3279150.13		P	0.8
4	☐	1.000		3275703.56		P	0.4
5	☐	1.000		3293282.07		P	2.0
6	☐	1.000		3208949.47		P	0.2
7	☐	1.000		3148439.09		P	0.3
8	☐	1.000		3099180.10		P	0.7
9	☐	1.000		3074661.59		P	0.4

45 Sc (ISTD) [He]

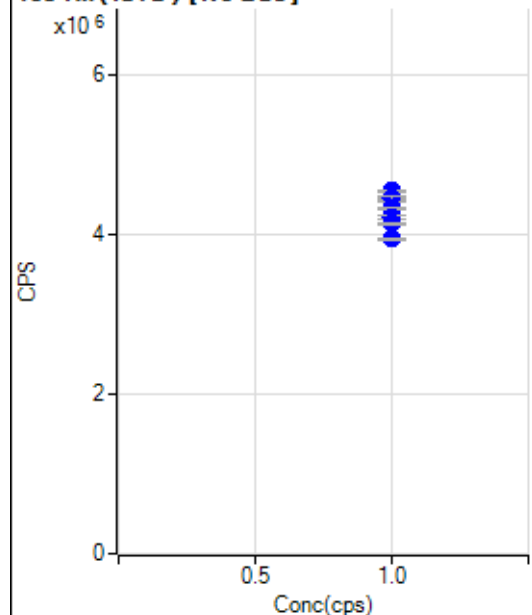
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		296027.09		P	0.6
2	☐	1.000		288635.25		P	1.3
3	☐	1.000		291256.24		P	0.9
4	☐	1.000		285935.01		P	2.2
5	☐	1.000		290984.99		P	1.2
6	☐	1.000		285132.17		P	0.4
7	☐	1.000		274514.66		P	0.8
8	☐	1.000		273247.27		P	0.5
9	☐	1.000		280542.08		P	0.8

89 Y (ISTD) [No Gas]

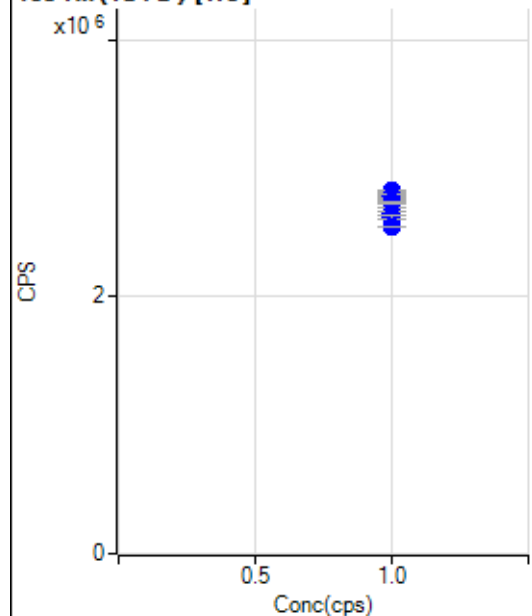
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7723146.48		A	0.3
2	☐	1.000		7562575.58		A	0.5
3	☐	1.000		7542851.21		A	0.2
4	☐	1.000		7626966.48		A	0.4
5	☐	1.000		7654219.54		A	1.8
6	☐	1.000		7496996.35		A	0.4
7	☐	1.000		7422942.04		A	1.6
8	☐	1.000		7428371.49		A	0.2
9	☐	1.000		7356616.42		A	0.8

89 Y (ISTD) [He]

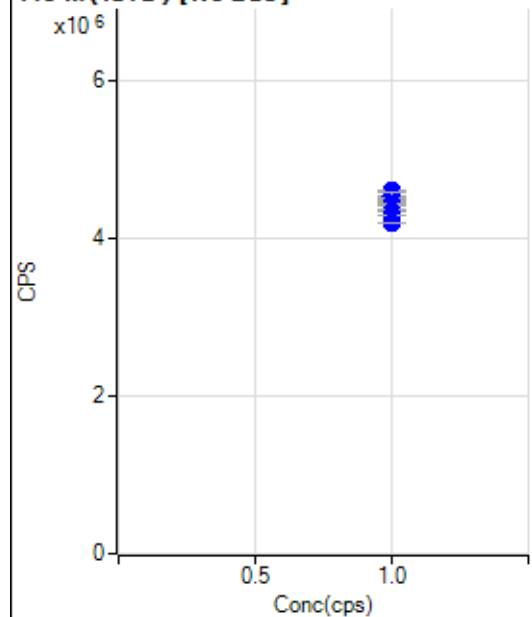
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1988936.00		P	0.8
2	☐	1.000		1973431.69		P	1.6
3	☐	1.000		1982168.60		P	0.6
4	☐	1.000		1944126.76		P	1.2
5	☐	1.000		1981572.19		P	1.2
6	☐	1.000		1950490.44		P	0.5
7	☐	1.000		1893597.09		P	0.8
8	☐	1.000		1902368.27		P	0.9
9	☐	1.000		1939204.66		P	0.4

103 Rh (ISTD) [No Gas]

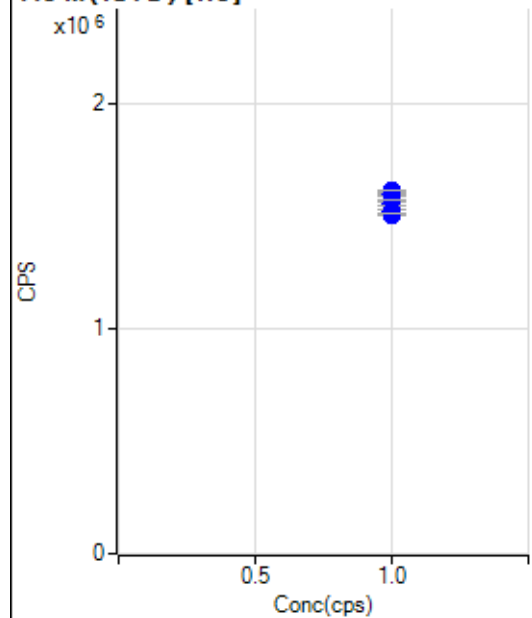
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4549558.34		P	0.6
2	☐	1.000		4445392.29		P	0.5
3	☐	1.000		4436239.10		P	0.3
4	☐	1.000		4451412.16		P	0.8
5	☐	1.000		4453702.23		P	2.0
6	☐	1.000		4331520.21		P	0.6
7	☐	1.000		4230957.68		P	1.1
8	☐	1.000		4142229.04		P	0.6
9	☐	1.000		3953804.46		P	0.6

103 Rh (ISTD) [He]

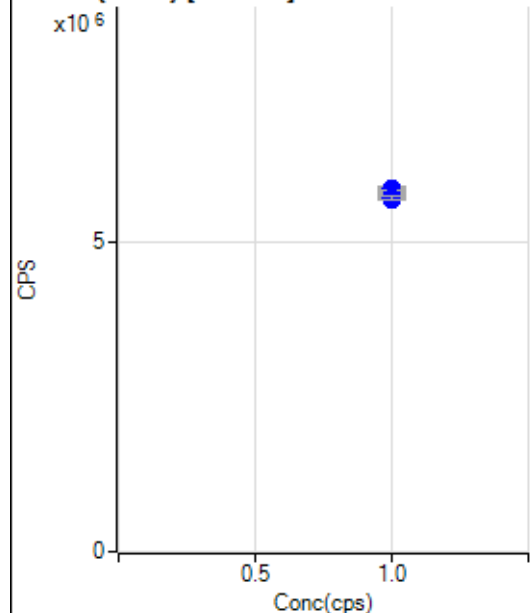
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2823992.49		P	0.7
2	☐	1.000		2766230.79		P	1.4
3	☐	1.000		2788189.79		P	0.6
4	☐	1.000		2723114.82		P	1.8
5	☐	1.000		2783912.98		P	1.1
6	☐	1.000		2735198.05		P	0.6
7	☐	1.000		2646816.23		P	1.2
8	☐	1.000		2622844.32		P	1.0
9	☐	1.000		2545241.21		P	0.4

115 In (ISTD) [No Gas]

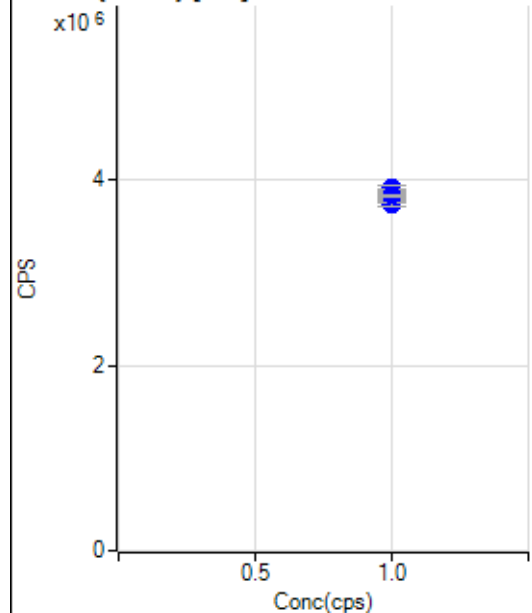
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4609648.53		P	0.4
2	☐	1.000		4497984.57		P	0.6
3	☐	1.000		4492184.45		P	0.6
4	☐	1.000		4518813.76		P	0.6
5	☐	1.000		4549279.72		P	1.8
6	☐	1.000		4437066.87		P	0.3
7	☐	1.000		4350587.09		P	0.5
8	☐	1.000		4304930.15		P	0.3
9	☐	1.000		4198298.48		P	0.3

115 In (ISTD) [He]

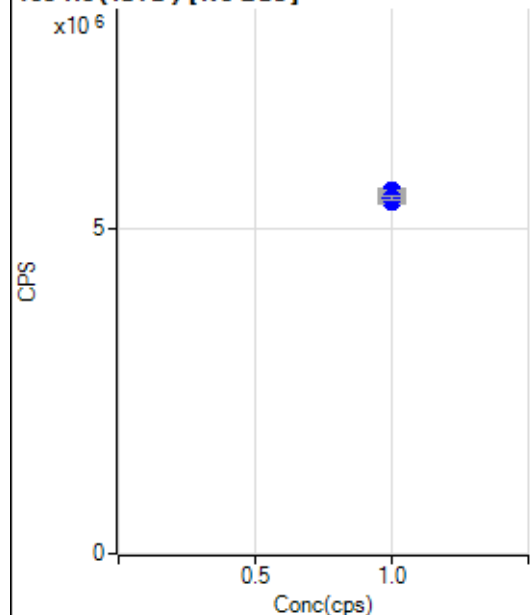
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1609951.98		P	0.5
2	☐	1.000		1573933.13		P	1.4
3	☐	1.000		1592434.98		P	0.6
4	☐	1.000		1554541.89		P	1.4
5	☐	1.000		1597839.78		P	1.4
6	☐	1.000		1571916.26		P	0.2
7	☐	1.000		1517998.07		P	0.8
8	☐	1.000		1503929.71		P	0.2
9	☐	1.000		1509296.78		P	0.4

159 Tb (ISTD) [No Gas]

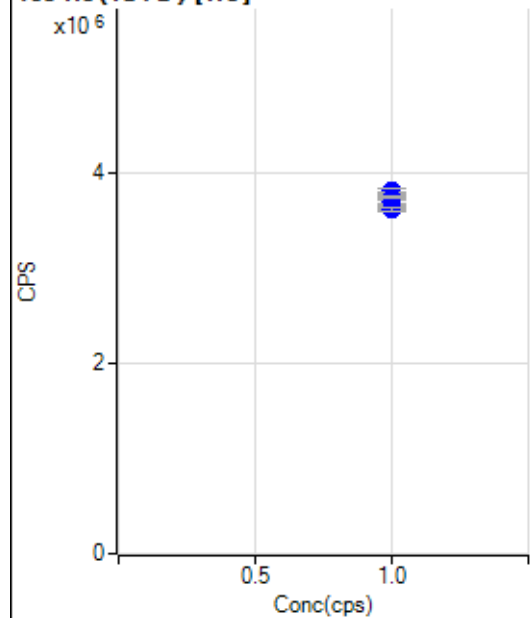
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5861001.51		P	0.2
2	☐	1.000		5693072.62		P	0.2
3	☐	1.000		5703032.21		P	0.6
4	☐	1.000		5761920.54		P	0.7
5	☐	1.000		5871962.21		P	1.9
6	☐	1.000		5786666.58		P	0.6
7	☐	1.000		5827302.69		P	0.3
8	☐	1.000		5846465.40		P	0.3
9	☐	1.000		5726523.53		P	0.6

159 Tb (ISTD) [He]

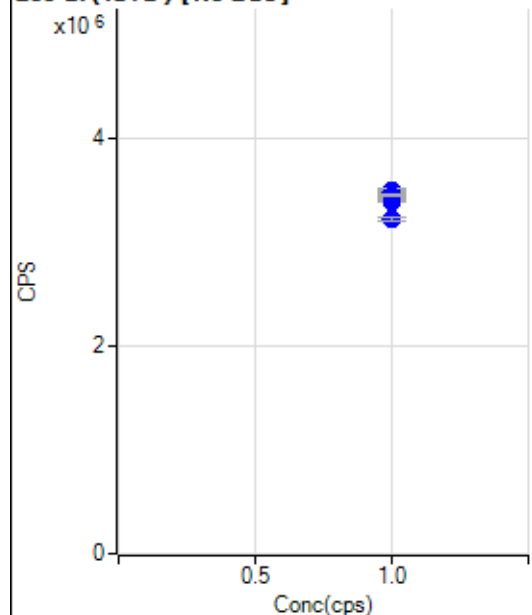
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3807058.38		P	0.6
2	☐	1.000		3746939.74		P	1.7
3	☐	1.000		3763648.49		P	0.6
4	☐	1.000		3731339.91		P	1.2
5	☐	1.000		3866760.91		P	1.4
6	☐	1.000		3868549.21		P	0.9
7	☐	1.000		3840406.75		P	0.9
8	☐	1.000		3911091.57		P	0.9
9	☐	1.000		3826572.37		P	0.6

165 Ho (ISTD) [No Gas]

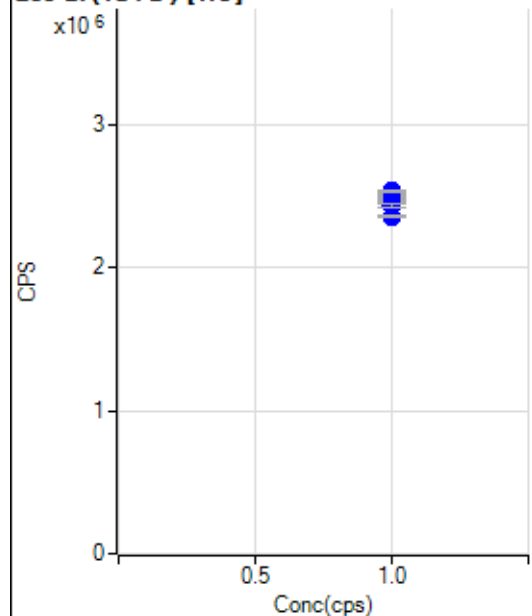
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5584719.85		P	0.0
2	☐	1.000		5412048.67		P	0.9
3	☐	1.000		5414517.73		P	0.6
4	☐	1.000		5490284.71		P	0.7
5	☐	1.000		5567943.67		P	1.8
6	☐	1.000		5524183.01		P	0.8
7	☐	1.000		5552504.16		P	0.2
8	☐	1.000		5577916.44		P	0.3
9	☐	1.000		5483020.61		P	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3685498.35		P	0.8
2	☐	1.000		3633317.51		P	1.2
3	☐	1.000		3647255.88		P	0.2
4	☐	1.000		3612571.61		P	1.4
5	☐	1.000		3732964.46		P	1.3
6	☐	1.000		3766082.06		P	0.7
7	☐	1.000		3760459.77		P	0.7
8	☐	1.000		3804246.16		P	0.9
9	☐	1.000		3735977.10		P	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3499377.10		P	0.2
2	☐	1.000		3395138.46		P	0.5
3	☐	1.000		3394664.33		P	0.5
4	☐	1.000		3437195.78		P	0.4
5	☐	1.000		3482725.96		P	2.4
6	☐	1.000		3430376.02		P	1.0
7	☐	1.000		3442919.32		P	0.2
8	☐	1.000		3456355.12		P	0.7
9	☐	1.000		3226931.86		P	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2492198.57		P	0.8
2	☐	1.000		2459682.20		P	1.3
3	☐	1.000		2450673.57		P	0.5
4	☐	1.000		2436500.88		P	1.3
5	☐	1.000		2525522.98		P	1.3
6	☐	1.000		2536126.77		P	0.4
7	☐	1.000		2523464.69		P	0.8
8	☐	1.000		2534235.67		P	0.7
9	☐	1.000		2354383.92		P	0.6

US EPA Tune Check Sample Report

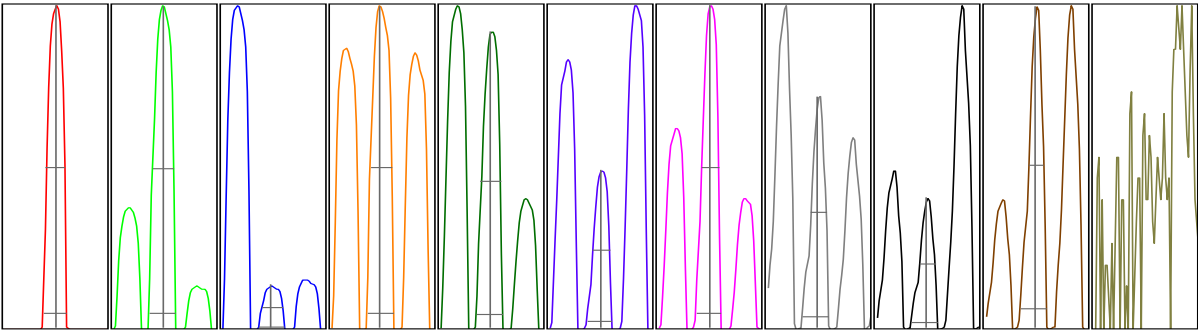
Batch Folder C:\Agilent\ICPMH\1\DATA\P7012921M.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	3981	0.70	5.00	
24	61268	1.02	5.00	
25	8161	0.79	5.00	
26	9502	0.81	5.00	
59	10854	0.67	5.00	
113	5783	0.61	5.00	
115	19333	1.70	5.00	
206	6641	0.77	5.00	
207	5600	0.57	5.00	
208	13639	0.41	5.00	
220	0	43.24		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	3983	3935	3983	3997	4008
24	61327	60329	61207	62083	61395
25	8135	8068	8170	8238	8195
26	9472	9441	9431	9561	9604
59	10866	10733	10856	10929	10887
113	5823	5757	5778	5814	5743
115	19603	19542	19487	19232	18803
206	6643	6562	6651	6705	6643
207	5596	5596	5555	5644	5608
208	13659	13548	13633	13658	13697
220	1	0	0	1	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	7434	9.05	8.9 - 9.1		0.688	0.900	
24	102689	24.00	23.9 - 24.1		0.779	0.900	
25	13807	24.95	24.9 - 25.1		0.744	0.900	
26	15809	25.95	25.9 - 26.1		0.779	0.900	
59	19826	59.00	58.9 - 59.1		0.770	0.900	
113	11510	113.05	112.9 - 113.1		0.730	0.900	
115	38010	115.05	114.9 - 115.1		0.732	0.900	
206	14252	206.00	205.9 - 206.1		0.766	0.900	
207	11785	207.00	206.9 - 207.1		0.769	0.900	
208	29210	208.00	207.9 - 208.1		0.768	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.9	V	Deflect	14.4	V
Extract 2	-175.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	4243	0.53	
89	37931	0.44	
205	6279	0.66	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	4265	4248	4247	4249	4204
89	38076	37881	38003	38031	37662
205	6300	6256	6271	6338	6229

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.9	V	Deflect	2.6	V
Extract 2	-170.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-90	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			