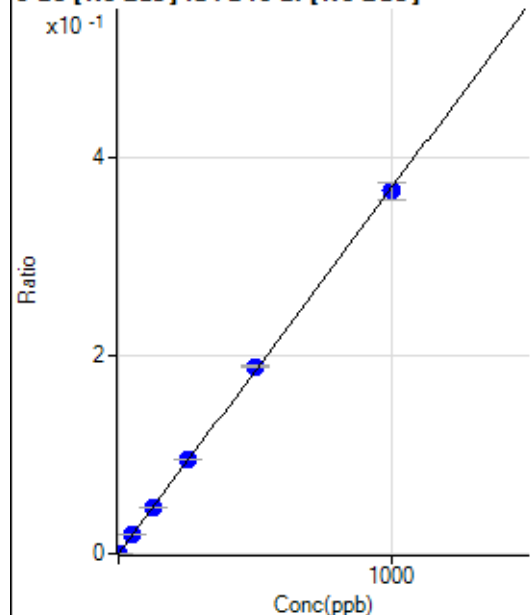


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8033021-MS.b\
Analysis File: P8033021-MS.batch.bin
DA Date-Time: 2021-03-30 16:02:12
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-03-30 15:12:20
2	004CALS.d	S02	2021-03-30 15:15:32
3	006CALS.d	S03	2021-03-30 15:21:51
4	007CALS.d	S04	2021-03-30 15:24:59
5	008CALS.d	S05	2021-03-30 15:28:05
6	009CALS.d	S06	2021-03-30 15:31:03
7	010CALS.d	S07	2021-03-30 15:34:04
8	011CALS.d	S08	2021-03-30 15:37:03

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	56.66	0.0000	P	4.9
2	☐	1.000	1.057	983.17	0.0004	P	1.3
3	☐	50.000	51.079	44366.79	0.0188	P	1.3
4	☐	125.000	125.459	109924.81	0.0463	P	2.0
5	☐	250.000	258.006	220492.60	0.0951	P	1.1
6	☐	500.000	511.475	446080.05	0.1885	P	0.9
7	☐	1000.000	992.150	864538.94	0.3657	P	5.0
8	☐			300.61	0.0001	P	12.4

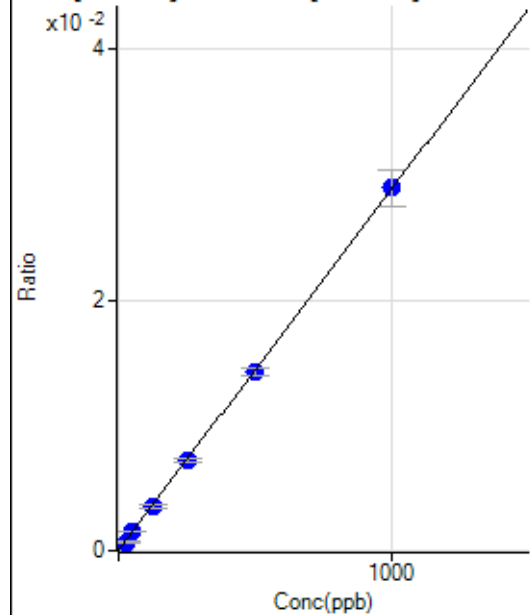
$$y = 3.6855E-004 * x + 2.3982E-005$$

$$R = 0.9999$$

$$DL = 0.009644$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	104.65	0.0000	P	19.4
2	☐	25.000	21.700	1589.78	0.0007	P	9.1
3	☐	50.000	51.099	3565.74	0.0015	P	5.7
4	☐	125.000	121.814	8440.77	0.0036	P	6.8
5	☐	250.000	248.052	16660.14	0.0072	P	4.6
6	☐	500.000	494.180	33768.57	0.0143	P	4.7
7	☐	1000.000	1003.822	68326.26	0.0289	P	9.8
8	☐			9258.45	0.0039	P	9.6

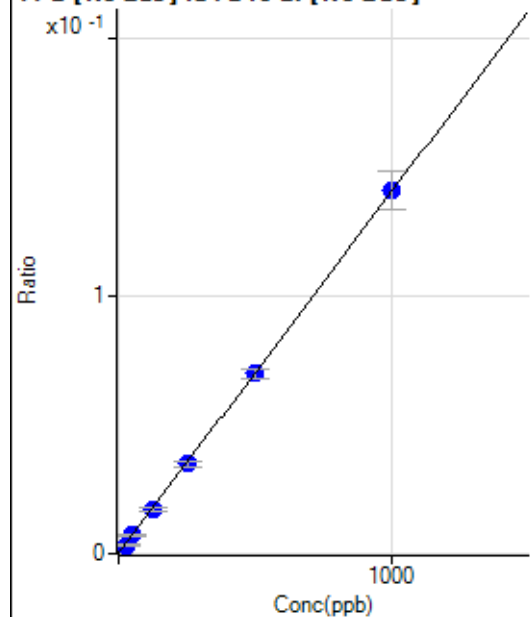
$$y = 2.8782E-005 * x + 4.4126E-005$$

$$R = 1.0000$$

$$DL = 0.891$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	507.91	0.0002	P	5.5
2	☐	25.000	21.997	7828.55	0.0033	P	6.0
3	☐	50.000	49.951	16959.11	0.0072	P	6.7
4	☐	125.000	121.110	40795.04	0.0172	P	4.9
5	☐	250.000	246.337	80442.73	0.0347	P	5.0
6	☐	500.000	496.896	165048.06	0.0697	P	5.2
7	☐	1000.000	1003.032	331821.63	0.1406	P	10.4
8	☐			44241.69	0.0186	P	9.5

$$y = 1.3992E-004 * x + 2.1540E-004$$

$$R = 1.0000$$

$$DL = 0.2534$$

Weight: <None>

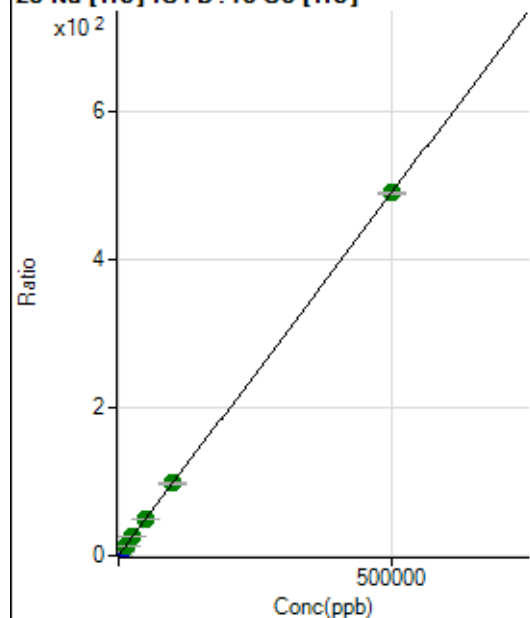
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	46009.47	0.3524	P	2.2
2	☐	500.000	535.616	108373.11	0.8779	P	4.5
3	☐	5000.000	5373.398	717929.93	5.6241	P	4.2
4	☐	12500.000	12789.965	1714903.68	12.9002	A	0.5
5	☐	25000.000	25382.015	3327518.74	25.2538	A	2.7
6	☐	50000.000	50601.175	6628648.19	49.9955	A	0.8
7	☐	100000.00	99220.414	12840317.04	97.6942	A	1.5
8	☐	500000.00	500065.68	62823706.26	490.9500	A	0.6

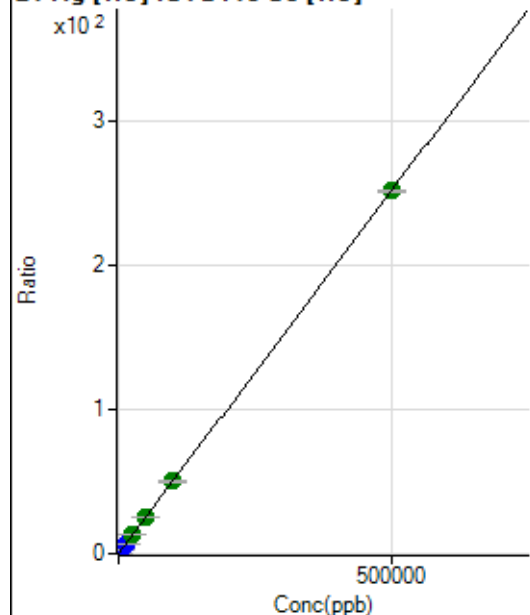
$$y = 9.8107\text{E-}004 * x + 0.3524$$

$$R = 1.0000$$

$$DL = 23.55$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	513.91	0.0039	P	5.4
2	☐	500.000	510.237	32169.58	0.2605	P	3.8
3	☐	5000.000	5411.715	347891.08	2.7251	P	3.9
4	☐	12500.000	13000.398	869476.11	6.5409	P	1.2
5	☐	25000.000	25691.408	1702822.95	12.9222	A	2.2
6	☐	50000.000	51070.753	3405378.81	25.6836	A	0.3
7	☐	100000.00	99629.530	6584909.48	50.1003	A	0.8
8	☐	500000.00	499915.81	32166573.64	251.3746	A	0.6

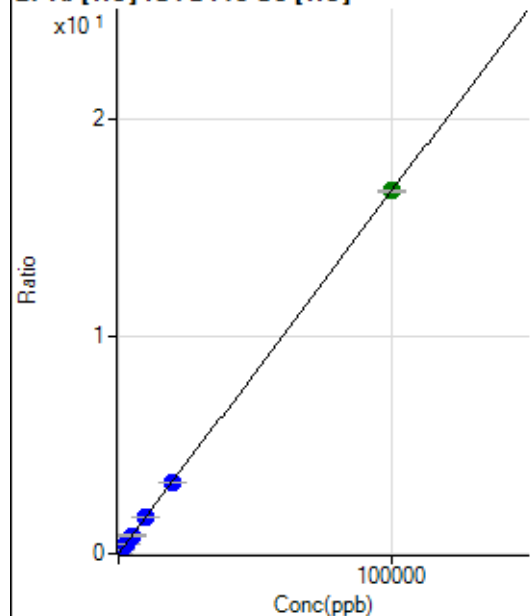
$$y = 5.0283\text{E-}004 * x + 0.0039$$

$$R = 1.0000$$

$$DL = 1.279$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	382.46	0.0029	P	3.5
2	☐	20.000	23.131	839.50	0.0068	P	4.1
3	☐	1000.000	1033.018	22423.97	0.1757	P	4.4
4	☐	2500.000	2503.779	56041.98	0.4216	P	1.8
5	☐	5000.000	5007.059	110702.86	0.8402	P	2.9
6	☐	10000.000	10024.126	222634.60	1.6792	P	1.0
7	☐	20000.000	19762.782	434741.46	3.3077	P	0.2
8	☐	100000.00	100044.25	2141169.05	16.7324	A	0.8

$$y = 1.6722\text{E-}004 * x + 0.0029$$

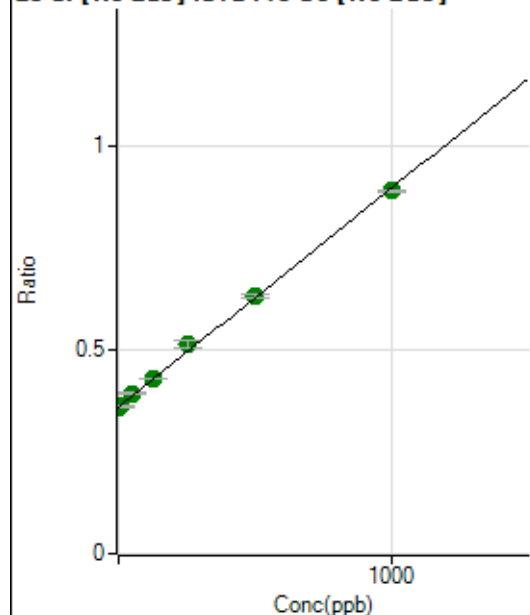
$$R = 1.0000$$

$$DL = 1.856$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1129462.03	0.3606	A	0.6
2	☐	10.000	2.968	1154266.91	0.3622	A	1.5
3	☐	50.000	61.516	1249720.70	0.3937	A	0.6
4	☐	125.000	126.642	1387293.61	0.4287	A	0.5
5	☐	250.000	286.669	1628813.47	0.5148	A	4.0
6	☐	500.000	507.377	2060940.00	0.6336	A	1.5
7	☐	1000.000	986.433	2957617.21	0.8914	A	0.7
8	☐			1334477.22	0.4071	A	3.1

$$y = 5.3810E-004 * x + 0.3606$$

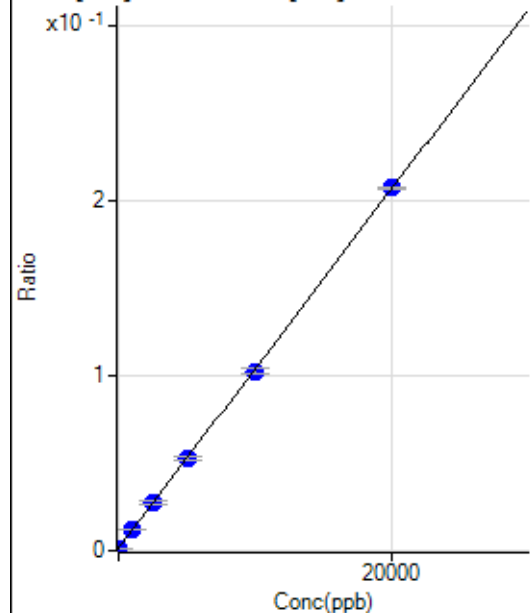
$$R = 0.9991$$

$$DL = 12.97$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-4.521	169.45	0.0013	P	12.9
2	☐	0.000	4.521	172.23	0.0014	P	20.7
3	☐	1000.000	1041.421	1539.01	0.0121	P	5.3
4	☐	2500.000	2540.685	3650.57	0.0275	P	6.9
5	☐	5000.000	5026.125	6985.19	0.0530	P	3.3
6	☐	10000.000	9838.945	13592.79	0.1025	P	3.0
7	☐	20000.000	20066.840	27293.03	0.2077	P	0.9
8	☐			183.34	0.0014	P	12.6

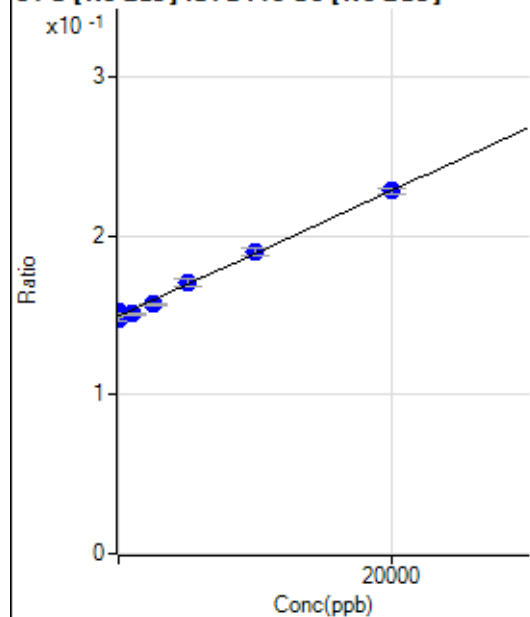
$$y = 1.0281E-005 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 66.33$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	589.367	476289.81	0.1521	P	0.5
2	☐	0.000	-589.367	469769.78	0.1474	P	1.4
3	☐	1000.000	355.463	479742.71	0.1511	P	1.2
4	☐	2500.000	1813.168	507706.78	0.1569	P	0.9
5	☐	5000.000	5367.073	540971.66	0.1710	P	3.2
6	☐	10000.000	10200.852	618218.33	0.1901	P	2.3
7	☐	20000.000	19925.886	758145.68	0.2285	P	1.9
8	☐			427665.54	0.1305	P	1.7

$$y = 3.9549\text{E-}006 * x + 0.1497$$

$$R = 0.9976$$

$$DL = 1117$$

Weight: <None>

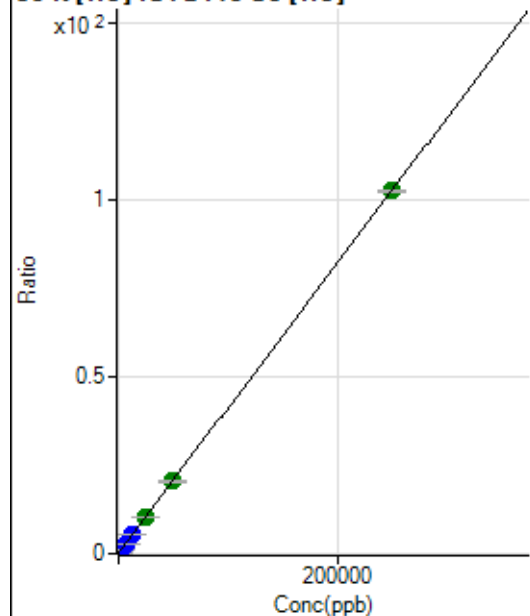
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25125.15	0.1924	P	2.8
2	☐	500.000	512.832	49722.65	0.4024	P	2.9
3	☐	2500.000	2617.043	161344.80	1.2640	P	4.5
4	☐	6250.000	6329.364	370097.51	2.7841	P	0.9
5	☐	12500.000	12624.673	706533.56	5.3618	P	2.5
6	☐	25000.000	25165.537	1391748.46	10.4969	A	0.7
7	☐	50000.000	49510.436	2689753.58	20.4653	A	1.9
8	☐	250000.00	250071.94	13127896.99	102.5887	A	0.2

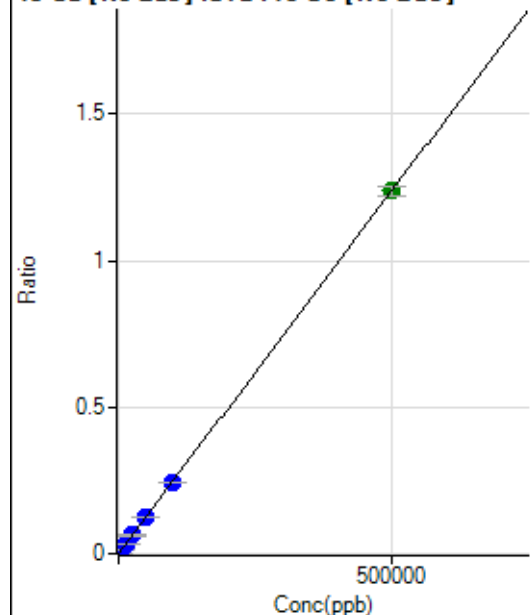
$$y = 4.0947E-004 * x + 0.1924$$

$$R = 1.0000$$

$$DL = 40.12$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	254.14	0.0001	P	8.5
2	☐	500.000	476.704	4016.32	0.0013	P	2.1
3	☐	5000.000	5012.539	39609.73	0.0125	P	1.0
4	☐	12500.000	12261.959	98396.94	0.0304	P	0.5
5	☐	25000.000	25320.481	198419.80	0.0627	P	3.2
6	☐	50000.000	50343.637	405283.38	0.1246	P	1.6
7	☐	100000.00	98032.239	804690.13	0.2425	P	0.9
8	☐	500000.00	500349.01	4056177.78	1.2376	A	2.9

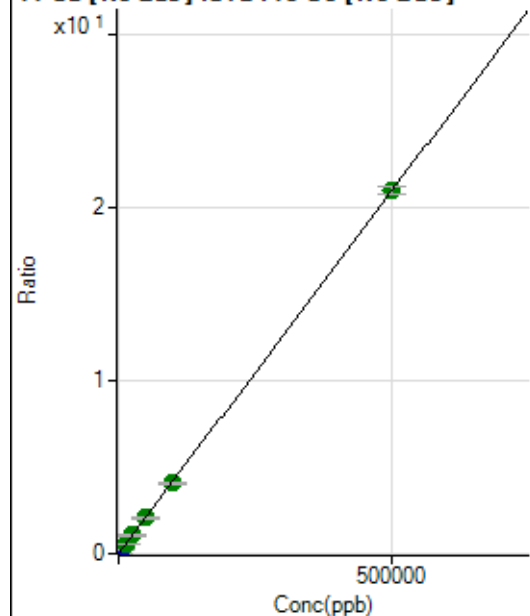
$$y = 2.4732E-006 * x + 8.1124E-005$$

$$R = 1.0000$$

$$DL = 8.333$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11203.82	0.0036	P	1.0
2	☐	500.000	475.779	74778.22	0.0235	P	1.1
3	☐	5000.000	5013.025	676470.81	0.2131	P	0.6
4	☐	12500.000	12399.736	1688626.37	0.5218	A	1.8
5	☐	25000.000	25234.191	3347746.54	1.0583	A	4.6
6	☐	50000.000	49065.122	6682681.34	2.0543	A	1.8
7	☐	100000.00	96960.852	13459810.46	4.0562	A	0.6
8	☐	500000.00	500692.00	68605671.90	20.9307	A	2.1

$$y = 4.1796E-005 * x + 0.0036$$

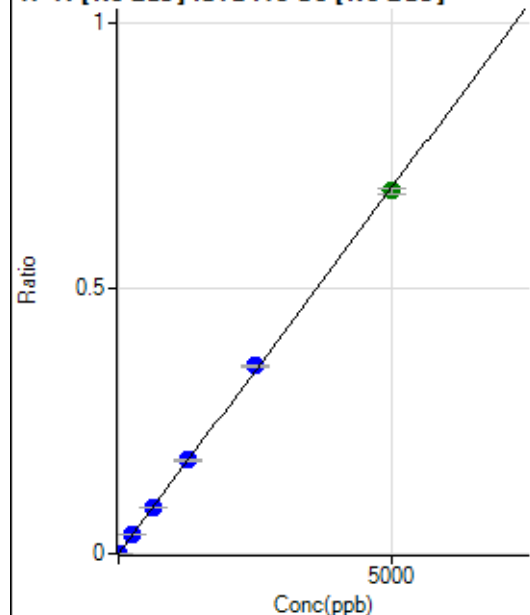
$$R = 1.0000$$

$$DL = 2.508$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	261.12	0.0001	P	12.4
2	☐	5.000	5.423	2650.32	0.0008	P	7.2
3	☐	250.000	256.640	112671.98	0.0355	P	2.6
4	☐	625.000	628.367	280878.56	0.0868	P	0.4
5	☐	1250.000	1274.707	556936.08	0.1760	P	2.9
6	☐	2500.000	2568.059	1153060.98	0.3545	P	1.4
7	☐	5000.000	4959.041	2270648.23	0.6844	A	1.3
8	☐			541.69	0.0002	P	3.8

$$y = 1.3800\text{E-}004 * x + 8.3309\text{E-}005$$

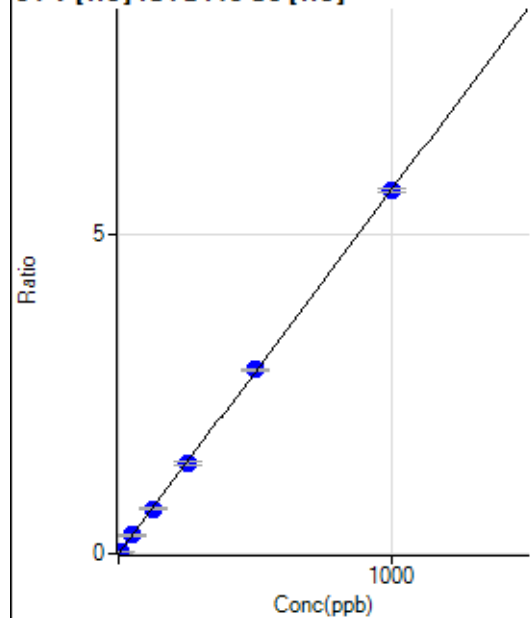
$$R = 0.9998$$

$$DL = 0.2254$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.78	0.0001	P	26.3
2	☐	5.000	5.114	3607.16	0.0292	P	2.2
3	☐	50.000	50.474	36700.28	0.2876	P	5.0
4	☐	125.000	123.622	93605.72	0.7042	P	1.9
5	☐	250.000	249.458	187210.57	1.4210	P	3.2
6	☐	500.000	505.168	381522.62	2.8775	P	0.5
7	☐	1000.000	997.699	746920.99	5.6830	P	1.0
8	☐			141.12	0.0011	P	26.3

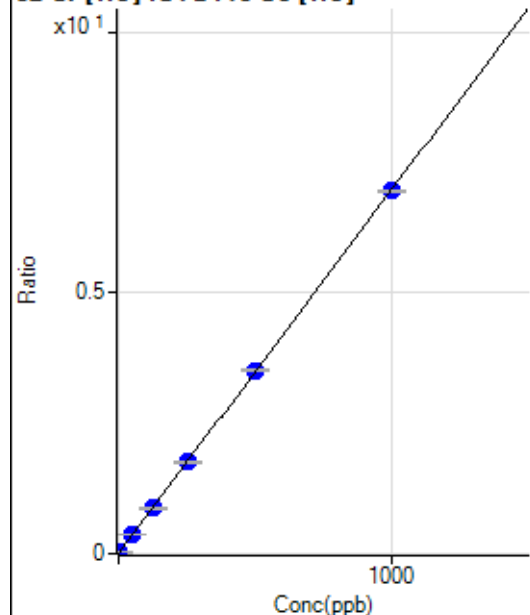
$$y = 0.0057 * x + 5.9724\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.008264$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	751.14	0.0058	P	0.8
2	☐	2.000	2.013	2446.90	0.0198	P	0.7
3	☐	50.000	51.606	46605.72	0.3653	P	6.0
4	☐	125.000	124.899	116415.76	0.8759	P	2.9
5	☐	250.000	251.511	231647.03	1.7580	P	2.3
6	☐	500.000	504.332	466619.26	3.5193	P	0.2
7	☐	1000.000	997.389	914018.05	6.9543	P	0.7
8	☐			6310.34	0.0493	P	0.8

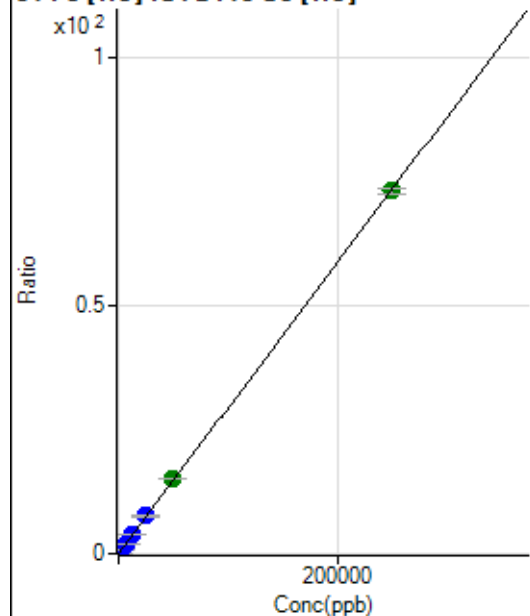
$$y = 0.0070 * x + 0.0058$$

$$R = 1.0000$$

$$DL = 0.01948$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	437.05	0.0033	P	9.6
2	☐	50.000	52.780	2329.86	0.0188	P	3.0
3	☐	2500.000	2648.289	99454.42	0.7792	P	4.5
4	☐	6250.000	6354.061	247852.45	1.8648	P	2.7
5	☐	12500.000	12813.421	495027.44	3.7570	P	2.7
6	☐	25000.000	25818.115	1003247.47	7.5667	P	0.7
7	☐	50000.000	51661.816	1989562.59	15.1376	A	1.0
8	☐	250000.00	249566.06	9355404.84	73.1133	A	1.7

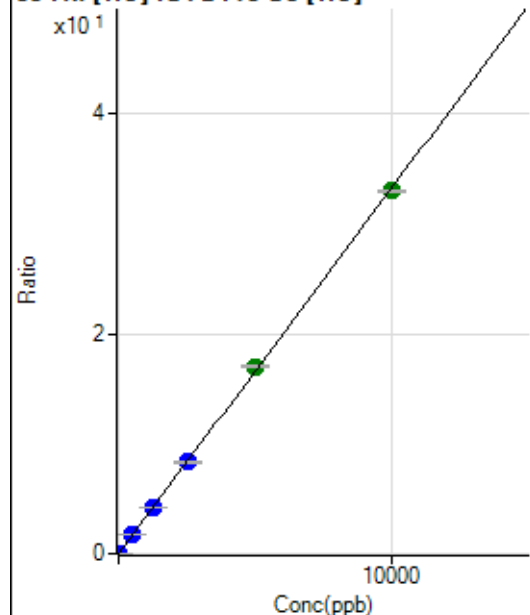
$$y = 2.9295E-004 * x + 0.0033$$

$$R = 1.0000$$

$$DL = 3.309$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	84.44	0.0006	P	31.4
2	☐	1.000	0.988	485.57	0.0039	P	1.1
3	☐	500.000	521.821	221099.23	1.7322	P	4.5
4	☐	1250.000	1255.291	553739.74	4.1660	P	2.1
5	☐	2500.000	2518.769	1101330.15	8.3585	P	2.7
6	☐	5000.000	5123.032	2253888.09	17.0000	A	1.1
7	☐	10000.000	9932.040	4331770.49	32.9573	A	0.7
8	☐			2955.89	0.0231	P	5.4

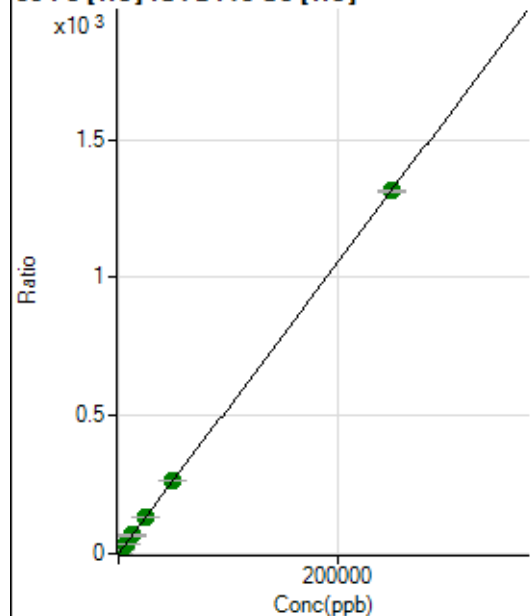
$$y = 0.0033 * x + 6.4852E-004$$

$$R = 0.9999$$

$$DL = 0.1843$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2744.75	0.0210	P	7.5
2	☐	50.000	51.990	36378.24	0.2945	P	3.1
3	☐	2500.000	2653.548	1784985.54	13.9799	A	3.4
4	☐	6250.000	6325.971	4426038.03	33.2985	A	2.1
5	☐	12500.000	12752.457	8841867.10	67.1047	A	2.7
6	☐	25000.000	25442.174	17747526.09	133.8584	A	1.2
7	☐	50000.000	50299.466	34780253.79	264.6192	A	1.2
8	☐	250000.00	249879.83	168208487.0	1,314.503	A	0.3

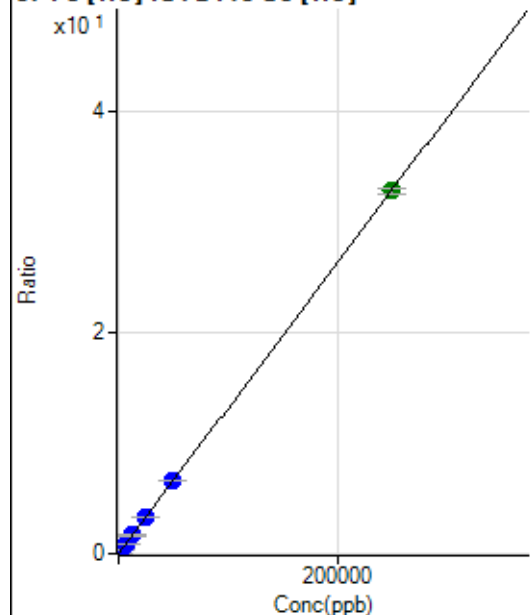
$$y = 0.0053 * x + 0.0210$$

$$R = 1.0000$$

$$DL = 0.8993$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	133.34	0.0010	P	9.7
2	☐	50.000	49.719	935.24	0.0075	P	5.5
3	☐	2500.000	2614.733	43914.03	0.3440	P	4.4
4	☐	6250.000	6351.674	110890.97	0.8343	P	1.9
5	☐	12500.000	12707.264	219796.42	1.6680	P	2.5
6	☐	25000.000	25355.941	441161.00	3.3273	P	0.3
7	☐	50000.000	50079.849	863616.96	6.5707	P	0.2
8	☐	250000.00	249934.38	4195481.89	32.7882	A	1.3

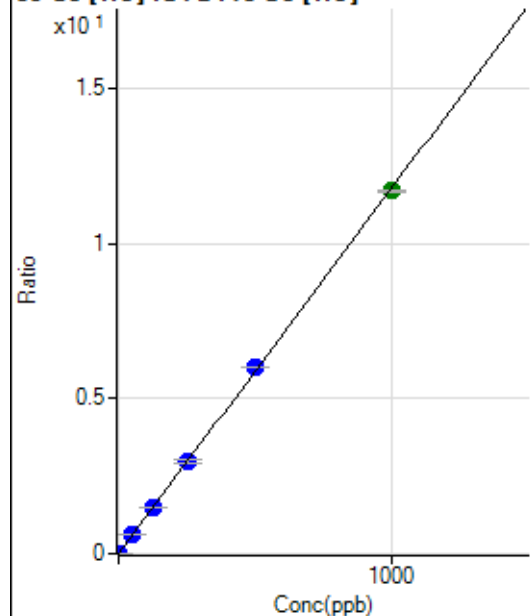
$$y = 1.3118\text{E-}004 * x + 0.0010$$

$$R = 1.0000$$

$$DL = 2.274$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.00	0.0002	P	40.2
2	☐	1.000	1.046	1551.21	0.0125	P	1.5
3	☐	50.000	52.327	78701.42	0.6164	P	3.6
4	☐	125.000	126.288	197704.17	1.4873	P	1.8
5	☐	250.000	253.077	392667.75	2.9803	P	3.0
6	☐	500.000	511.722	798963.55	6.0260	P	0.5
7	☐	1000.000	993.092	1537033.57	11.6944	A	0.6
8	☐			2329.11	0.0182	P	1.1

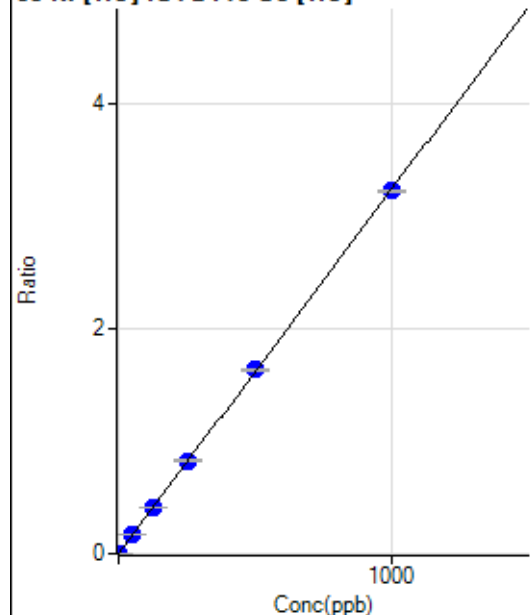
$$y = 0.0118 * x + 2.3002\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.02353$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0003	P	35.9
2	☐	1.000	1.170	504.46	0.0041	P	13.2
3	☐	50.000	52.342	21686.62	0.1699	P	4.1
4	☐	125.000	126.163	54366.79	0.4090	P	2.8
5	☐	250.000	253.798	108391.18	0.8226	P	2.3
6	☐	500.000	505.408	217134.53	1.6377	P	0.8
7	☐	1000.000	996.084	424188.02	3.2274	P	0.8
8	☐			1907.93	0.0149	P	1.4

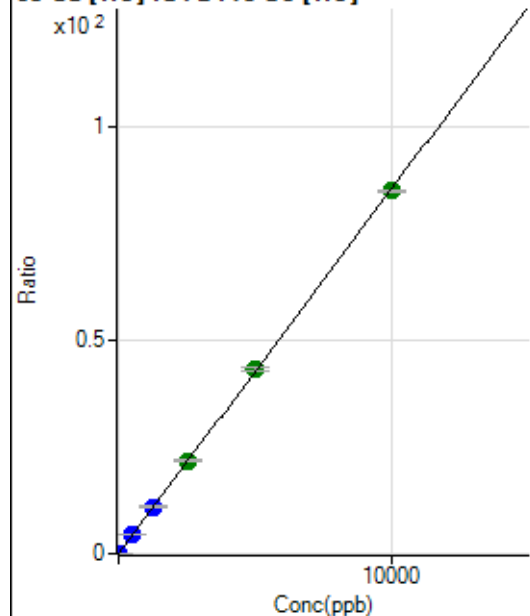
$$y = 0.0032 * x + 2.9815E-004$$

$$R = 1.0000$$

$$DL = 0.09911$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	535.27	0.0041	P	4.5
2	☐	2.000	2.274	2900.37	0.0235	P	7.6
3	☐	500.000	538.349	587641.98	4.6043	P	4.9
4	☐	1250.000	1291.517	1467535.37	11.0402	P	1.7
5	☐	2500.000	2555.355	2877558.18	21.8397	A	2.9
6	☐	5000.000	5059.728	5732558.34	43.2397	A	1.9
7	☐	10000.000	9949.190	11174512.69	85.0205	A	0.5
8	☐			7399.85	0.0578	P	1.2

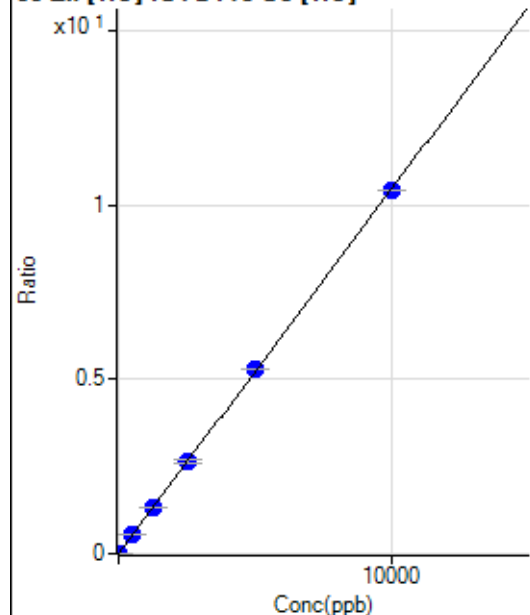
$$y = 0.0085 * x + 0.0041$$

$$R = 1.0000$$

$$DL = 0.06486$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	113.33	0.0009	P	22.7
2	☐	2.000	2.332	407.79	0.0033	P	9.8
3	☐	500.000	520.659	69694.64	0.5459	P	4.1
4	☐	1250.000	1255.856	174880.53	1.3156	P	1.6
5	☐	2500.000	2535.086	349820.22	2.6549	P	2.5
6	☐	5000.000	5072.767	704241.88	5.3116	P	0.6
7	☐	10000.000	9953.080	1369656.46	10.4208	P	0.1
8	☐			2244.65	0.0175	P	0.5

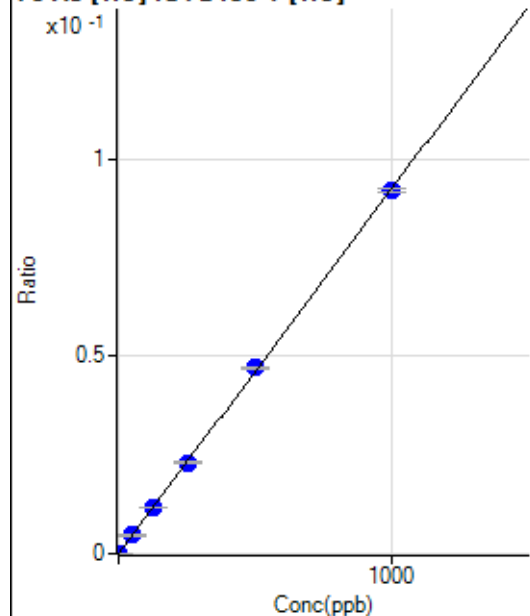
$$y = 0.0010 * x + 8.6963E-004$$

$$R = 1.0000$$

$$DL = 0.5649$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.33	0.0000	P	44.2
2	☐	1.000	0.988	98.34	0.0001	P	0.2
3	☐	50.000	51.355	4859.00	0.0048	P	5.3
4	☐	125.000	125.809	12343.63	0.0116	P	2.1
5	☐	250.000	248.877	24544.35	0.0230	P	2.7
6	☐	500.000	510.000	49827.60	0.0472	P	0.5
7	☐	1000.000	995.112	98283.21	0.0920	P	1.1
8	☐			50.34	0.0000	P	8.5

$$y = 9.2440E-005 * x + 9.0672E-006$$

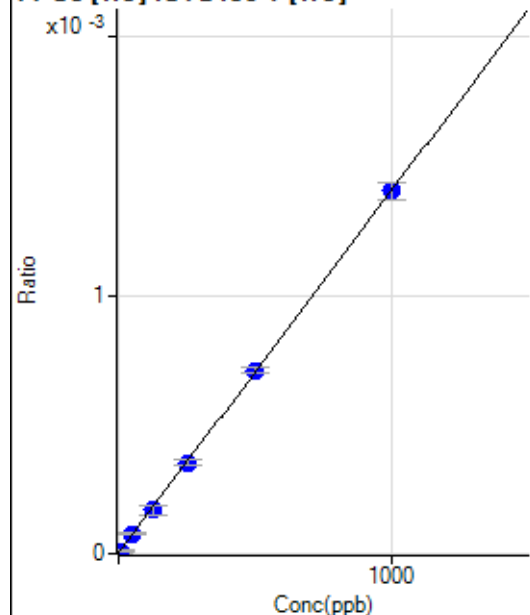
$$R = 0.9999$$

$$DL = 0.13$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.33	0.0000	P	1.2
2	☐	5.000	4.331	8.89	0.0000	P	87.2
3	☐	50.000	52.607	78.89	0.0001	P	9.0
4	☐	125.000	117.435	177.78	0.0002	P	22.1
5	☐	250.000	249.149	375.56	0.0004	P	6.0
6	☐	500.000	503.463	748.92	0.0007	P	3.1
7	☐	1000.000	999.300	1498.98	0.0014	P	5.0
8	☐			4.44	0.0000	P	173.2

$$y = 1.4011\text{E-}006 * x + 3.2279\text{E-}006$$

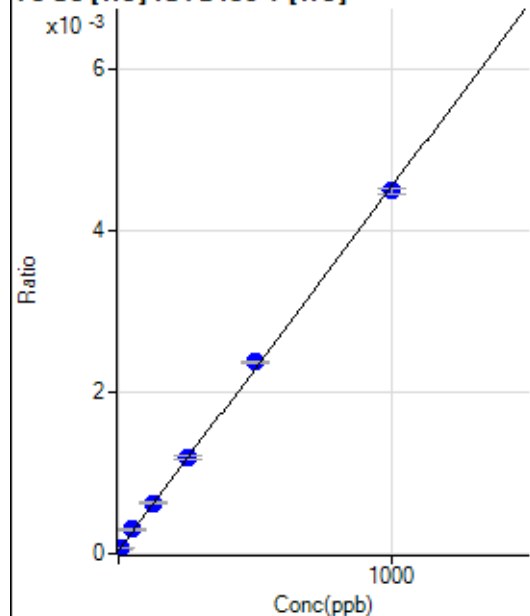
$$R = 1.0000$$

$$DL = 0.08007$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	43.00	0.0000	P	9.4
2	☐	5.000	7.994	75.68	0.0001	P	13.2
3	☐	50.000	58.148	310.37	0.0003	P	5.5
4	☐	125.000	130.490	668.42	0.0006	P	3.2
5	☐	250.000	255.094	1270.19	0.0012	P	5.6
6	☐	500.000	517.789	2510.81	0.0024	P	1.7
7	☐	1000.000	988.723	4806.31	0.0045	P	1.5
8	☐			50.34	0.0000	P	10.8

$$y = 4.5080\text{E-}006 * x + 4.1658\text{E-}005$$

$$R = 0.9998$$

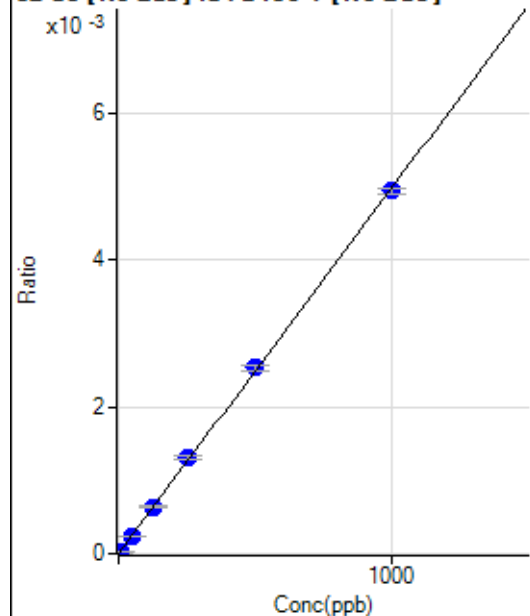
$$DL = 2.593$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6701.88		P	2.8
2	☐			6448.15		P	3.5
3	☐			6398.08		P	2.3
4	☐			6207.77		P	3.6
5	☐			6868.82		P	3.5
6	☐			7406.24		P	0.8
7	☐			7803.55		P	1.7
8	☐			8250.95		P	5.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12.65	0.0000	P	1709.
2	☐	5.000	4.904	232.39	0.0000	P	52.8
3	☐	50.000	47.190	2106.09	0.0002	P	3.8
4	☐	125.000	128.611	5839.49	0.0006	P	2.0
5	☐	250.000	260.816	11559.15	0.0013	P	4.3
6	☐	500.000	507.861	23047.27	0.0025	P	2.5
7	☐	1000.000	993.055	45730.68	0.0049	P	1.6
8	☐			53.76	0.0000	P	416.3

$$y = 4.9734E-006 * x + 1.3413E-006$$

$$R = 0.9999$$

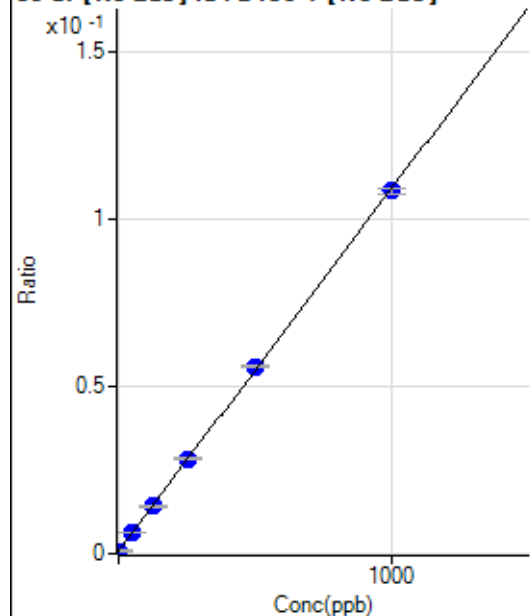
$$DL = 13.83$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4162.88		P	5.6
2	☐			4236.24		P	1.7
3	☐			4415.19		P	3.4
4	☐			4137.32		P	1.5
5	☐			4156.22		P	2.8
6	☐			4177.33		P	7.0
7	☐			4201.79		P	1.1
8	☐			4321.83		P	5.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6623.99	0.0008	P	2.1
2	☐	1.000	0.982	7799.61	0.0009	P	5.4
3	☐	50.000	50.435	55561.03	0.0062	P	2.2
4	☐	125.000	123.988	129482.99	0.0142	P	2.1
5	☐	250.000	255.407	253545.85	0.0285	P	3.3
6	☐	500.000	509.813	511541.41	0.0561	P	1.8
7	☐	1000.000	993.847	1005535.31	0.1086	P	1.7
8	☐			12072.27	0.0013	P	2.3

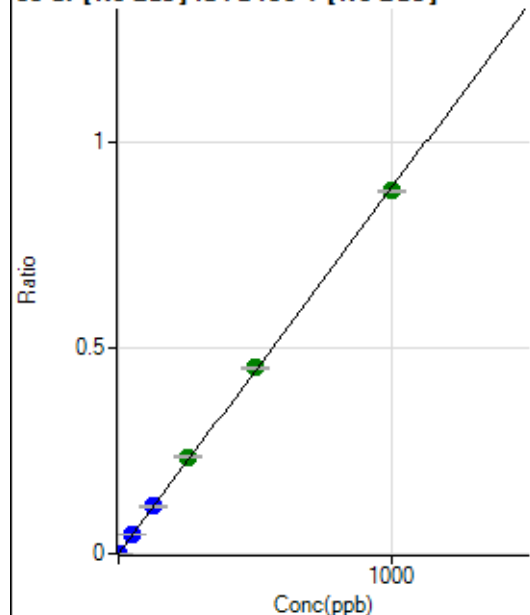
$$y = 1.0855E-004 * x + 7.5476E-004$$

$$R = 0.9999$$

$$DL = 0.4285$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	105.56	0.0000	P	23.6
2	☐	1.000	1.032	8411.07	0.0009	P	5.6
3	☐	50.000	52.429	415520.59	0.0466	P	1.0
4	☐	125.000	129.355	1046991.35	0.1149	P	0.9
5	☐	250.000	263.158	2081446.51	0.2337	A	2.1
6	☐	500.000	507.800	4113343.54	0.4510	A	1.6
7	☐	1000.000	992.145	8157794.19	0.8812	A	0.7
8	☐			48133.81	0.0053	P	1.7

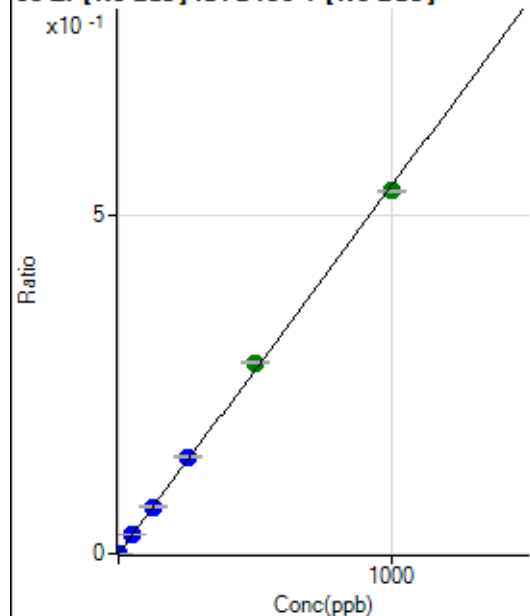
$$y = 8.8820E-004 * x + 1.2044E-005$$

$$R = 0.9999$$

$$DL = 0.009589$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	286.12	0.0000	P	13.0
2	☐	1.000	1.032	5373.41	0.0006	P	3.0
3	☐	50.000	52.812	256332.73	0.0287	P	2.1
4	☐	125.000	127.419	631255.36	0.0693	P	2.3
5	☐	250.000	262.695	1271844.96	0.1428	P	1.8
6	☐	500.000	519.543	2575968.13	0.2824	A	0.8
7	☐	1000.000	986.612	4964701.28	0.5363	A	0.8
8	☐			1794.61	0.0002	P	12.9

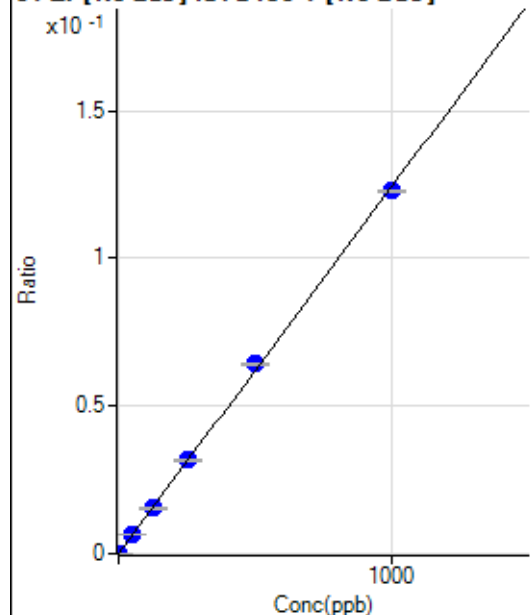
$$y = 5.4356E-004 * x + 3.2569E-005$$

$$R = 0.9996$$

$$DL = 0.02332$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0000	P	19.5
2	☐	1.000	0.847	1013.95	0.0001	P	2.3
3	☐	50.000	50.545	55996.52	0.0063	P	1.9
4	☐	125.000	124.339	140605.91	0.0154	P	1.9
5	☐	250.000	254.906	281674.37	0.0316	P	2.3
6	☐	500.000	518.609	586890.09	0.0644	P	1.1
7	☐	1000.000	989.524	1136617.35	0.1228	P	0.3
8	☐			408.35	0.0000	P	7.4

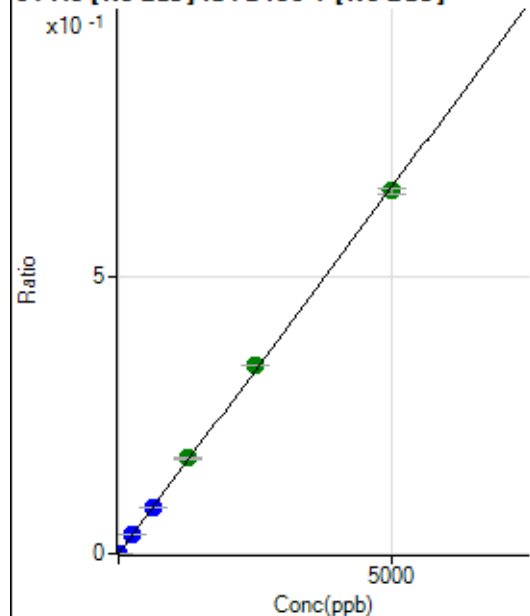
$$y = 1.2407\text{E-}004 * x + 6.9526\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.03277$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	105.56	0.0000	P	40.6
2	☐	5.000	4.714	5751.37	0.0006	P	3.1
3	☐	250.000	257.086	303271.33	0.0340	P	2.2
4	☐	625.000	630.336	759235.11	0.0834	P	3.2
5	☐	1250.000	1300.277	1530625.56	0.1719	A	3.4
6	☐	2500.000	2568.888	3097850.72	0.3397	A	0.3
7	☐	5000.000	4951.966	6060339.50	0.6547	A	1.6
8	☐			2483.63	0.0003	P	4.4

$$y = 1.3221\text{E-}004 * x + 1.2023\text{E-}005$$

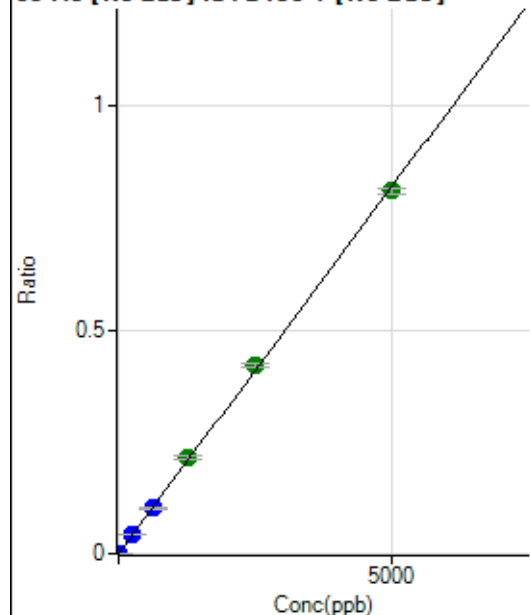
$$R = 0.9998$$

$$DL = 0.1107$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	67.9
2	☐	5.000	5.004	7429.98	0.0008	P	4.4
3	☐	250.000	258.399	377271.48	0.0423	P	1.2
4	☐	625.000	623.113	929047.56	0.1020	P	2.5
5	☐	1250.000	1311.122	1910524.20	0.2146	A	3.3
6	☐	2500.000	2572.575	3840107.20	0.4211	A	1.3
7	☐	5000.000	4948.248	7496548.52	0.8099	A	1.5
8	☐			2844.82	0.0003	P	7.6

$$y = 1.6367E-004 * x + 1.5731E-006$$

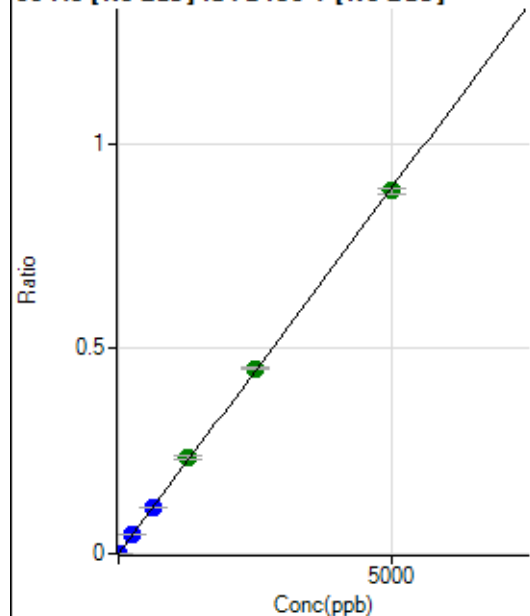
$$R = 0.9997$$

$$DL = 0.01957$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	1.3
2	☐	5.000	4.820	7824.64	0.0009	P	3.3
3	☐	250.000	256.964	408856.50	0.0458	P	1.6
4	☐	625.000	624.277	1014515.22	0.1114	P	1.8
5	☐	1250.000	1313.519	2085543.93	0.2343	A	4.6
6	☐	2500.000	2538.708	4129741.97	0.4528	A	0.8
7	☐	5000.000	4964.509	8196447.40	0.8855	A	1.8
8	☐			4517.54	0.0005	P	9.9

$$y = 1.7836E-004 * x + 4.7492E-006$$

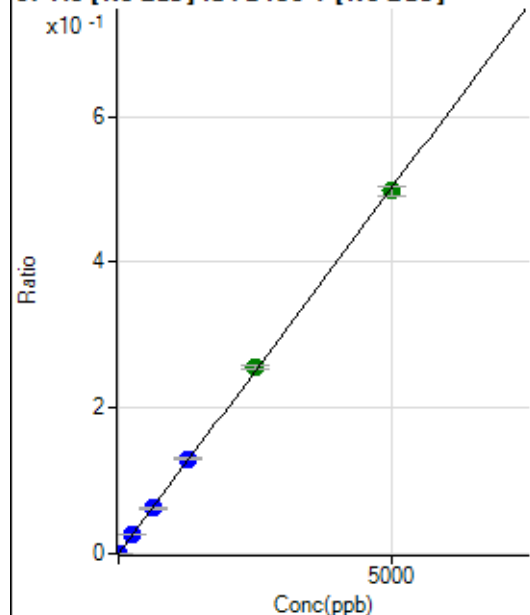
$$R = 0.9999$$

$$DL = 0.001052$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	26.0
2	☐	5.000	4.627	4234.10	0.0005	P	2.0
3	☐	250.000	253.963	227132.84	0.0255	P	1.3
4	☐	625.000	619.607	565991.79	0.0621	P	1.3
5	☐	1250.000	1294.337	1155339.16	0.1298	P	2.8
6	☐	2500.000	2549.105	2330852.70	0.2555	A	1.6
7	☐	5000.000	4964.840	4606624.80	0.4977	A	3.0
8	☐			1833.51	0.0002	P	12.6

$$y = 1.0025\text{E-}004 * x + 3.8061\text{E-}006$$

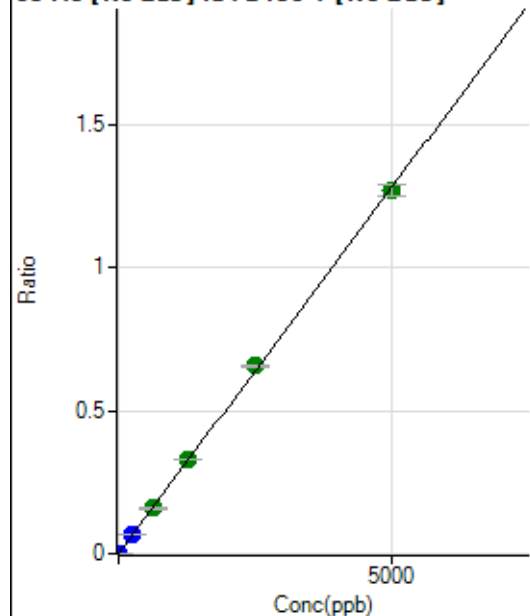
$$R = 0.9999$$

$$DL = 0.02959$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.55	0.0000	P	69.1
2	☐	5.000	4.736	11007.42	0.0012	P	0.8
3	☐	250.000	259.014	591467.67	0.0663	P	2.0
4	☐	625.000	621.576	1449933.29	0.1591	A	1.5
5	☐	1250.000	1290.144	2941605.18	0.3303	A	1.3
6	☐	2500.000	2563.546	5985958.12	0.6563	A	0.3
7	☐	5000.000	4958.169	11747992.54	1.2693	A	3.0
8	☐			4467.51	0.0005	P	4.3

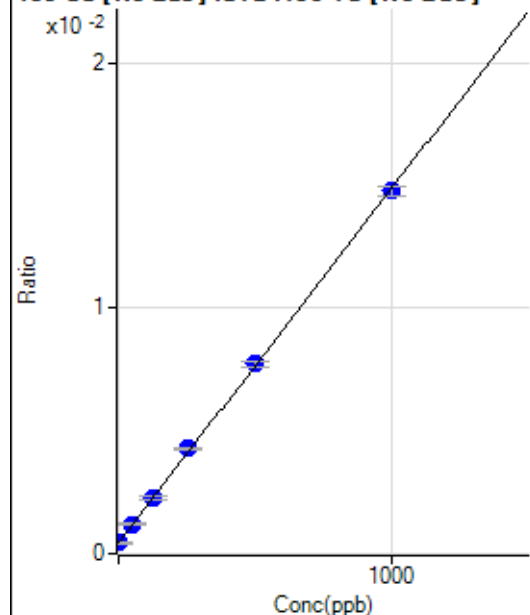
$$y = 2.5601\text{E-}004 * x + 3.4805\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.02818$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1902.97	0.0004	P	2.1
2	☐	1.000	-0.423	1911.30	0.0004	P	8.9
3	☐	50.000	52.455	5245.57	0.0012	P	3.5
4	☐	125.000	126.474	10034.51	0.0023	P	4.0
5	☐	250.000	265.804	18635.36	0.0043	P	1.9
6	☐	500.000	504.614	35510.33	0.0077	P	2.9
7	☐	1000.000	993.437	66790.26	0.0148	P	2.7
8	☐			2005.76	0.0004	P	1.9

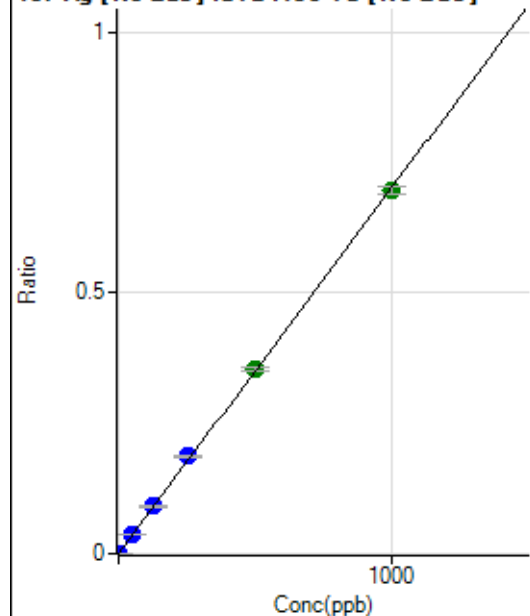
$$y = 1.4441\text{E-}005 * x + 4.4164\text{E-}004$$

$$R = 0.9998$$

$$DL = 1.9$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.34	0.0000	P	43.8
2	☐	1.000	0.978	3042.09	0.0007	P	4.5
3	☐	50.000	51.961	159403.89	0.0364	P	2.7
4	☐	125.000	129.588	402099.21	0.0909	P	1.2
5	☐	250.000	266.013	811964.24	0.1865	P	1.8
6	☐	500.000	505.923	1629813.80	0.3547	A	1.8
7	☐	1000.000	992.364	3142382.49	0.6958	A	2.0
8	☐			1319.55	0.0003	P	2.5

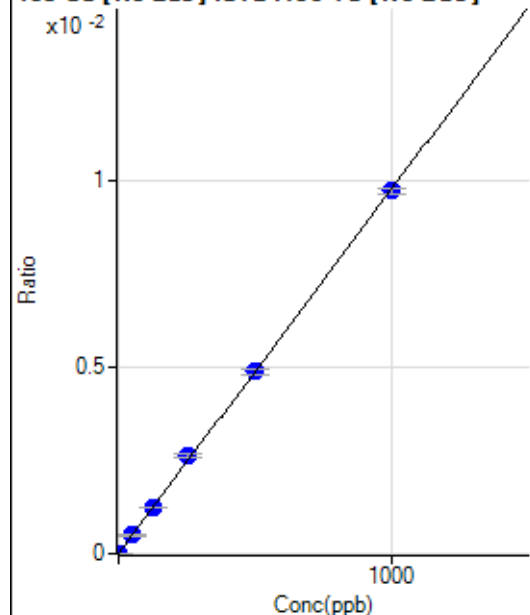
$$y = 7.0111\text{E-}004 * x + 7.7549\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.01452$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20.83	0.0000	P	60.1
2	☐	1.000	0.866	58.33	0.0000	P	28.9
3	☐	50.000	51.222	2208.54	0.0005	P	6.3
4	☐	125.000	127.694	5541.46	0.0013	P	1.6
5	☐	250.000	268.980	11456.26	0.0026	P	2.2
6	☐	500.000	498.677	22396.09	0.0049	P	3.5
7	☐	1000.000	995.519	43933.74	0.0097	P	1.5
8	☐			66.67	0.0000	P	34.2

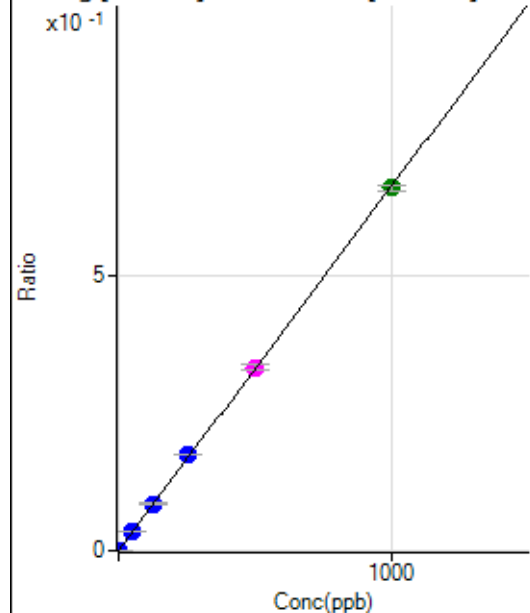
$$y = 9.7664\text{E-}006 * x + 4.8433\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.8936$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	76.1
2	☐	1.000	0.939	2758.68	0.0006	P	5.9
3	☐	50.000	51.734	150051.46	0.0343	P	2.9
4	☐	125.000	128.381	376650.85	0.0851	P	1.5
5	☐	250.000	263.258	759841.90	0.1745	P	0.7
6	☐	500.000	501.450	1527129.79	0.3324	M	3.2
7	☐	1000.000	995.451	2980889.02	0.6599	A	1.3
8	☐			1191.75	0.0003	P	6.9

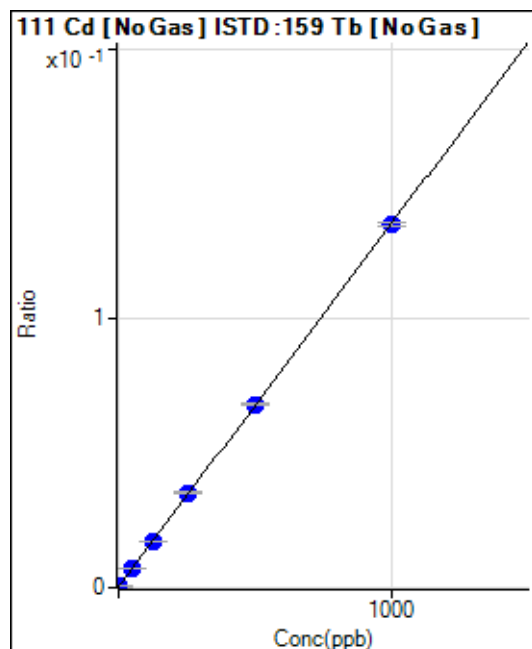
$$y = 6.6294\text{E-}004 * x + 6.4759\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.02231$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1323.05	0.0003	P	2.5
2	☐	1.000	1.101	1999.88	0.0005	P	5.7
3	☐	50.000	52.039	32086.36	0.0073	P	2.1
4	☐	125.000	126.202	76771.38	0.0173	P	1.5
5	☐	250.000	258.355	153222.32	0.0352	P	1.6
6	☐	500.000	502.734	313381.66	0.0682	P	1.4
7	☐	1000.000	996.292	609039.16	0.1348	P	1.0
8	☐			1600.43	0.0004	P	0.2

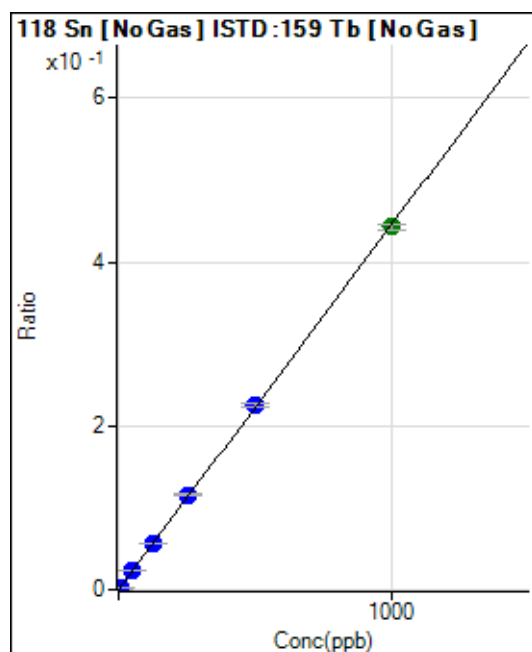
$$y = 1.3504\text{E-}004 * x + 3.0705\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.169$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	211.12	0.0000	P	28.9
2	☐	5.000	4.955	9901.09	0.0023	P	0.7
3	☐	50.000	51.441	100452.31	0.0230	P	4.3
4	☐	125.000	125.954	248570.23	0.0562	P	0.9
5	☐	250.000	260.705	505901.83	0.1162	P	1.3
6	☐	500.000	505.869	1035925.40	0.2254	P	1.4
7	☐	1000.000	994.198	2000997.98	0.4430	A	1.7
8	☐			1063.96	0.0002	P	8.6

$$y = 4.4556\text{E-}004 * x + 4.9085\text{E-}005$$

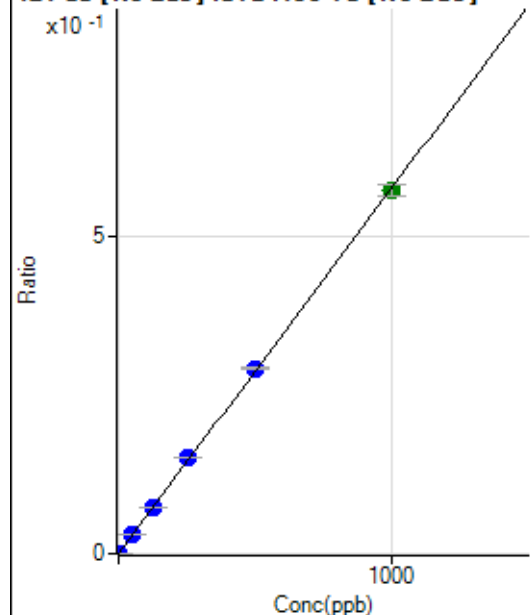
$$R = 0.9999$$

$$DL = 0.09543$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	81.7
2	☐	2.000	1.973	5028.85	0.0011	P	8.7
3	☐	50.000	51.755	130593.30	0.0299	P	3.3
4	☐	125.000	125.904	321314.96	0.0726	P	2.7
5	☐	250.000	262.100	658133.20	0.1512	P	0.8
6	☐	500.000	506.730	1342855.66	0.2923	P	1.2
7	☐	1000.000	993.409	2587185.41	0.5729	A	3.2
8	☐			2166.89	0.0005	P	1.6

$$y = 5.7672E-004 * x + 8.4052E-006$$

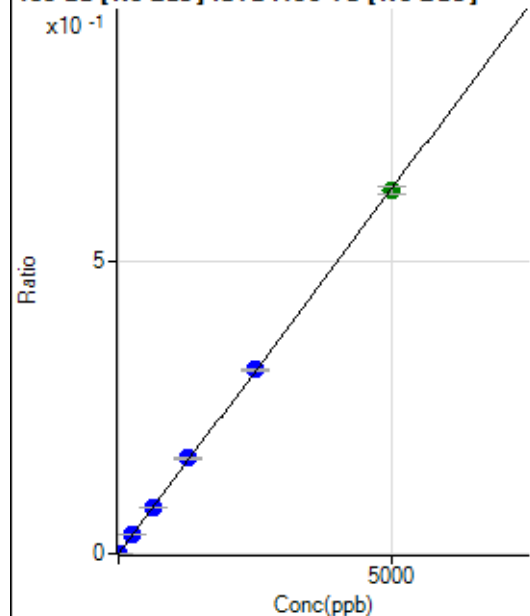
$$R = 0.9999$$

$$DL = 0.03573$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.5
2	☐	10.000	10.169	5592.98	0.0013	P	3.6
3	☐	250.000	258.053	141261.14	0.0323	P	2.3
4	☐	625.000	634.182	351119.42	0.0794	P	2.3
5	☐	1250.000	1305.664	711302.67	0.1634	P	1.0
6	☐	2500.000	2521.142	1449425.36	0.3154	P	1.3
7	☐	5000.000	4973.962	2810756.94	0.6223	A	2.2
8	☐			1111.19	0.0002	P	4.3

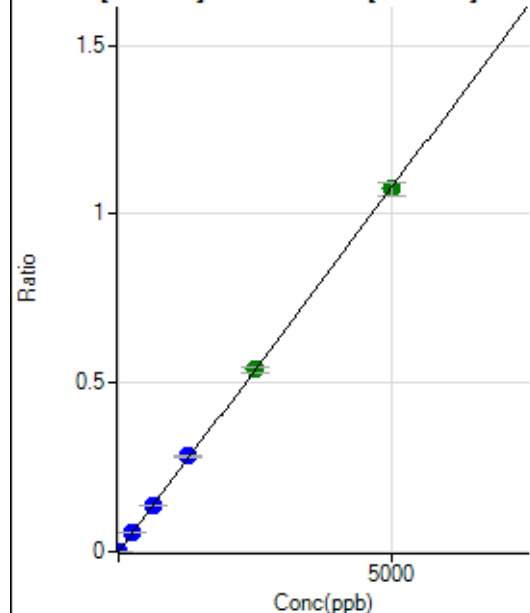
$$y = 1.2512E-004 * x + 2.5733E-006$$

$$R = 0.9999$$

$$DL = 0.02622$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	56.9
2	☐	10.000	9.974	9461.87	0.0022	P	1.2
3	☐	250.000	258.747	244133.04	0.0558	P	2.1
4	☐	625.000	639.340	610220.65	0.1379	P	0.2
5	☐	1250.000	1312.104	1231922.14	0.2830	P	1.7
6	☐	2500.000	2498.903	2475602.33	0.5389	A	3.4
7	☐	5000.000	4982.793	4851994.12	1.0745	A	3.5
8	☐			1808.52	0.0004	P	4.8

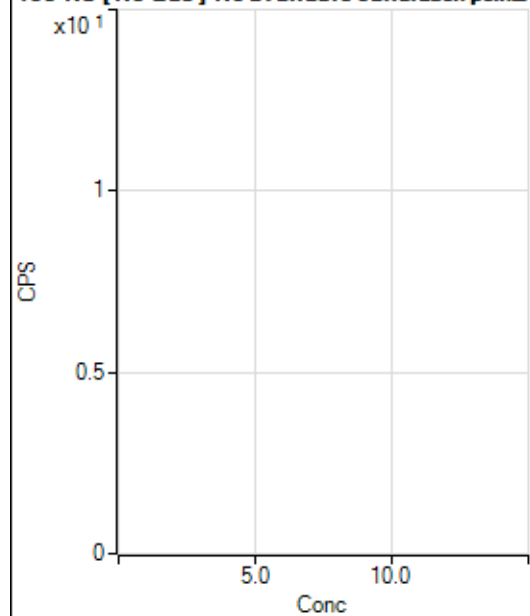
$$y = 2.1565E-004 * x + 5.7870E-006$$

$$R = 0.9999$$

$$DL = 0.0458$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	132.3
2	☐			8.89		P	43.3
3	☐			24.44		P	31.5
4	☐			17.78		P	86.6
5	☐			46.67		P	42.9
6	☐			71.11		P	59.5
7	☐			164.45		P	13.0
8	☐			42.22		P	18.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			1.11		P	173.2
5	☐			5.56		P	34.7
6	☐			21.11		P	36.5
7	☐			20.00		P	60.1
8	☐			7.78		P	24.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	43.3
2	☐			22.22		P	78.1
3	☐			27.78		P	34.6
4	☐			41.67		P	34.6
5	☐			41.67		P	20.0
6	☐			83.34		P	20.0
7	☐			175.01		P	24.7
8	☐			591.70		P	14.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			4.44		P	114.6
3	☐			6.67		P	50.0
4	☐			7.78		P	24.7
5	☐			22.22		P	37.8
6	☐			37.78		P	18.4
7	☐			82.22		P	18.7
8	☐			382.23		P	5.7

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			41.67		P	52.9
2	☐			30.55		P	68.6
3	☐			33.33		P	0.0
4	☐			58.34		P	14.3
5	☐			80.56		P	26.0
6	☐			130.56		P	26.6
7	☐			205.57		P	23.8
8	☐			680.59		P	11.4

160 Gd [He] No available calibration points

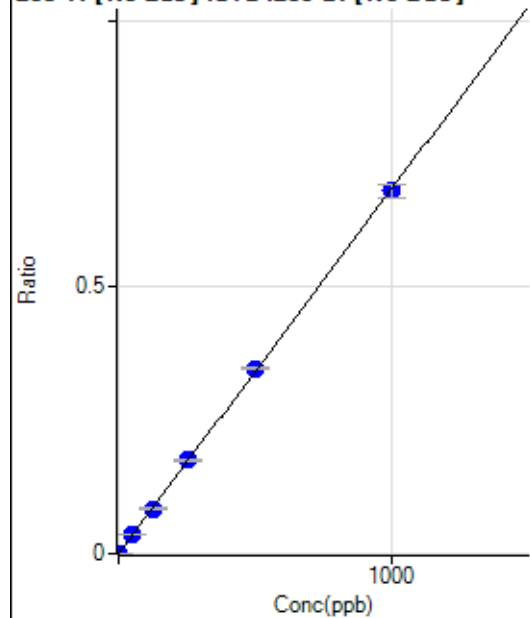
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	78.1
2	☐			5.55		P	124.9
3	☐			11.11		P	45.8
4	☐			33.33		P	45.8
5	☐			38.89		P	51.7
6	☐			62.22		P	18.8
7	☐			95.56		P	5.3
8	☐			396.68		P	4.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	114.6
2	☐			22.22		P	21.6
3	☐			30.55		P	15.7
4	☐			27.78		P	62.5
5	☐			25.00		P	66.7
6	☐			25.00		P	57.7
7	☐			63.89		P	60.2
8	☐			94.45		P	28.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			10.00		P	66.7
2	☐			5.55		P	124.9
3	☐			10.00		P	66.7
4	☐			14.45		P	26.7
5	☐			13.34		P	43.3
6	☐			23.33		P	42.9
7	☐			33.33		P	26.5
8	☐			47.78		P	28.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.01	0.0000	P	39.6
2	☐	1.000	0.892	1475.13	0.0006	P	12.0
3	☐	50.000	51.386	78192.00	0.0352	P	3.0
4	☐	125.000	123.097	191243.15	0.0842	P	4.4
5	☐	250.000	255.978	390892.96	0.1751	P	1.3
6	☐	500.000	506.868	801052.47	0.3466	P	1.0
7	☐	1000.000	995.240	1580129.57	0.6806	P	3.5
8	☐			416.69	0.0002	P	12.0

$$y = 6.8381E-004 * x + 3.3938E-005$$

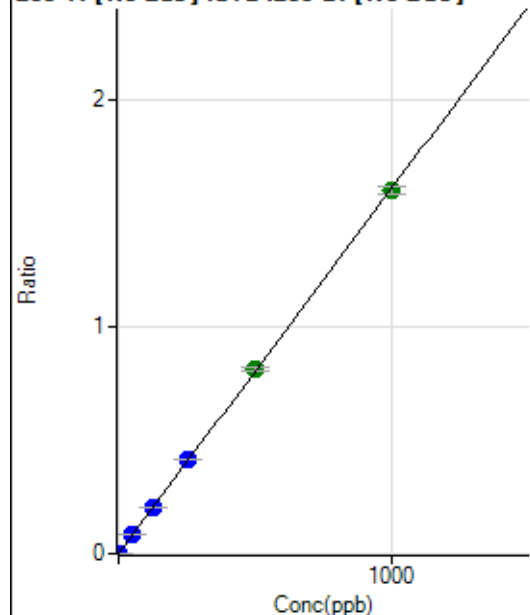
$$R = 0.9999$$

$$DL = 0.05892$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	158.34	0.0001	P	28.1
2	☐	1.000	0.922	3558.93	0.0016	P	3.1
3	☐	50.000	52.028	186098.58	0.0837	P	2.5
4	☐	125.000	125.895	459927.06	0.2025	P	2.2
5	☐	250.000	258.173	926781.23	0.4151	P	1.2
6	☐	500.000	507.850	1886517.01	0.8165	A	1.9
7	☐	1000.000	993.819	3709615.45	1.5977	A	2.1
8	☐			1147.30	0.0005	P	4.4

$$y = 0.0016 * x + 7.1588E-005$$

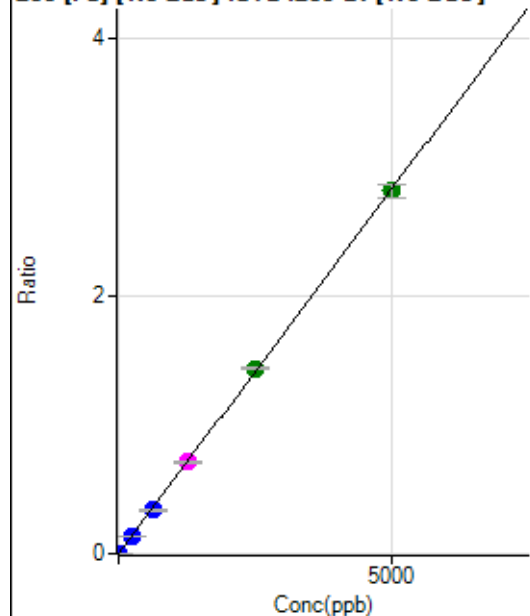
$$R = 0.9999$$

$$DL = 0.03753$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	187.04	0.0001	P	9.9
2	☐	1.000	0.939	1407.51	0.0006	P	5.7
3	☐	250.000	247.564	311019.02	0.1399	P	1.8
4	☐	625.000	600.265	770223.26	0.3391	P	2.8
5	☐	1250.000	1261.973	1591472.29	0.7128	M	1.8
6	☐	2500.000	2540.638	3316024.24	1.4349	A	1.0
7	☐	5000.000	4979.901	6530397.20	2.8124	A	3.4
8	☐			14204.28	0.0064	P	0.8

$$y = 5.6474E-004 * x + 8.4381E-005$$

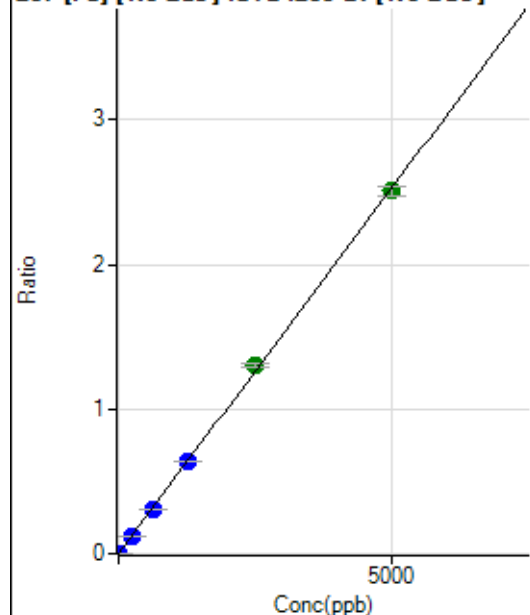
$$R = 0.9999$$

$$DL = 0.04429$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	122.22	0.0001	P	8.0
2	☐	1.000	0.990	1270.46	0.0006	P	8.5
3	☐	250.000	246.669	277062.95	0.1246	P	0.2
4	☐	625.000	600.991	689542.77	0.3035	P	2.8
5	☐	1250.000	1257.360	1417814.21	0.6350	P	1.0
6	☐	2500.000	2568.818	2998609.33	1.2972	A	2.1
7	☐	5000.000	4966.919	5824532.31	2.5082	A	2.5
8	☐			12482.15	0.0057	P	2.7

$$y = 5.0497E-004 * x + 5.5128E-005$$

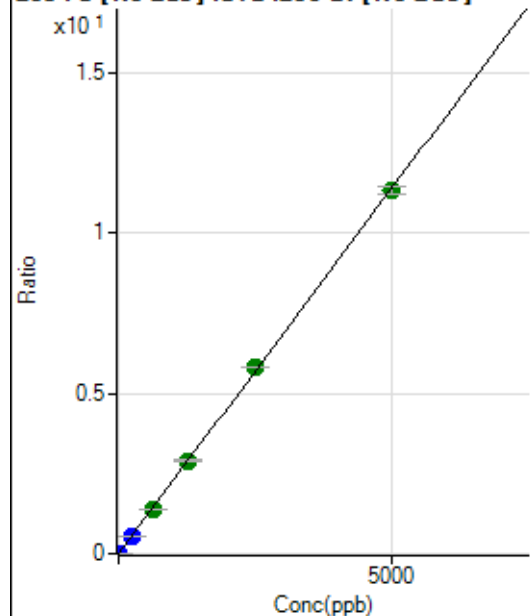
$$R = 0.9998$$

$$DL = 0.02621$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	701.87	0.0003	P	7.1
2	☐	1.000	0.929	5563.53	0.0024	P	2.6
3	☐	250.000	248.477	1257271.69	0.5655	P	0.9
4	☐	625.000	610.635	3155999.74	1.3893	A	2.5
5	☐	1250.000	1273.688	6469473.93	2.8974	A	0.9
6	☐	2500.000	2554.184	13428569.14	5.8100	A	0.9
7	☐	5000.000	4968.858	26245467.08	11.3024	A	2.3
8	☐			56242.66	0.0255	P	0.7

$$y = 0.0023 * x + 3.1670E-004$$

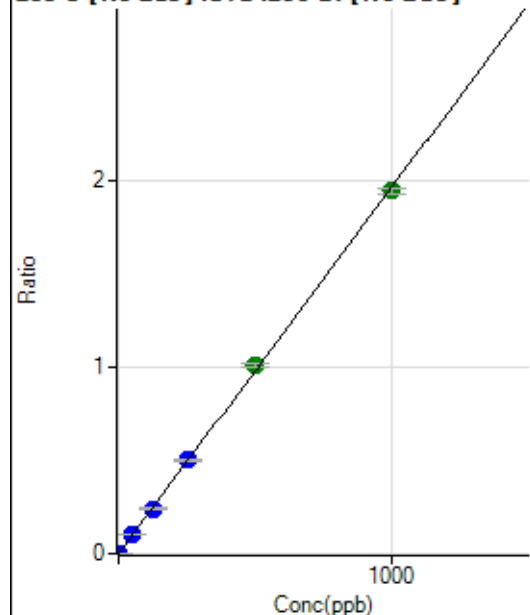
$$R = 0.9999$$

$$DL = 0.02955$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	50.2
2	☐	1.000	0.922	4156.36	0.0018	P	5.8
3	☐	50.000	50.854	221604.07	0.0997	P	0.6
4	☐	125.000	122.463	545299.39	0.2400	P	1.8
5	☐	250.000	255.417	1117629.66	0.5006	P	1.3
6	☐	500.000	515.841	2335944.39	1.0109	A	2.3
7	☐	1000.000	991.000	4509664.21	1.9421	A	1.8
8	☐			672.26	0.0003	P	17.6

$$y = 0.0020 * x + 7.5355E-006$$

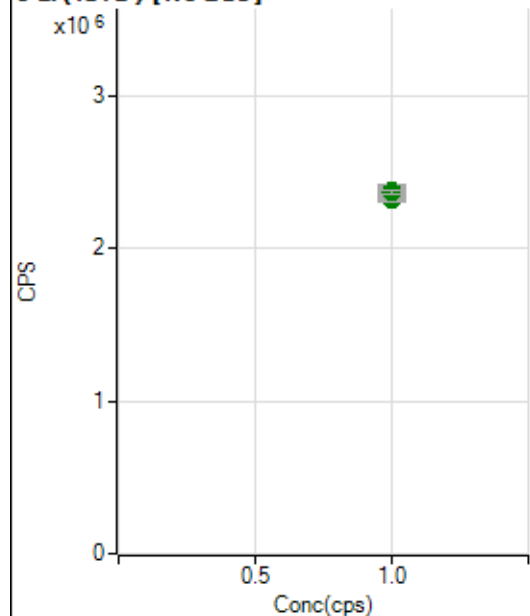
$$R = 0.9998$$

$$DL = 0.005787$$

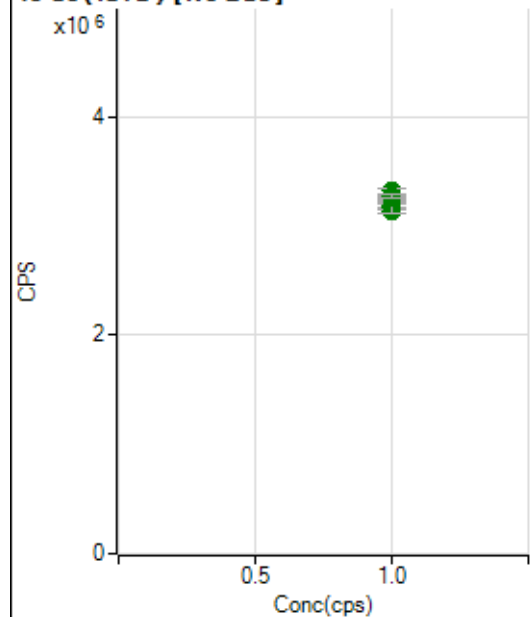
Weight: <None>

Min Conc: 0

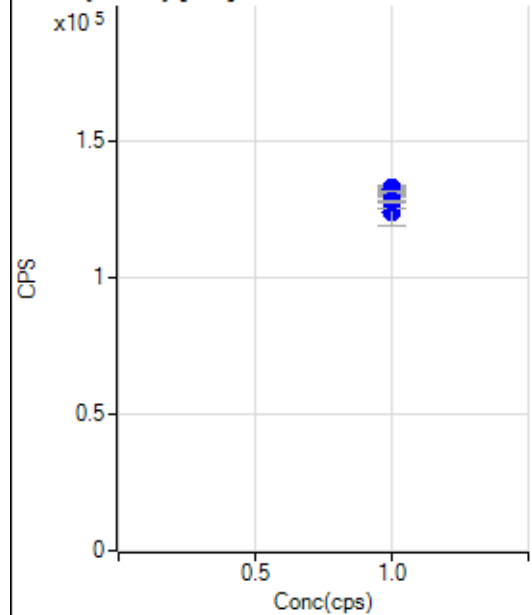
6 Li (ISTD) [No Gas]



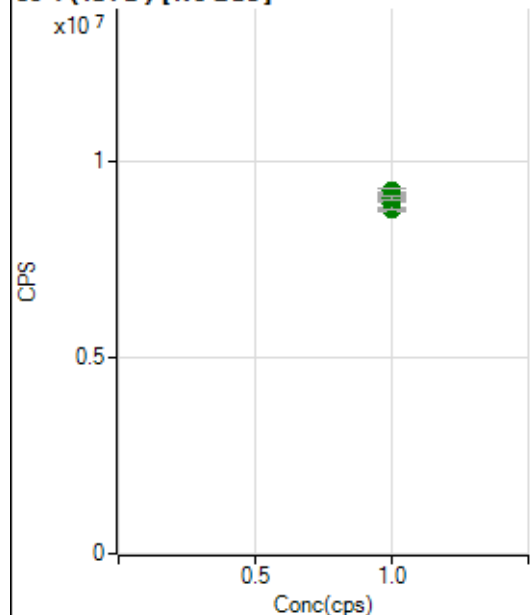
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2360365.27		A	3.7
2	☐	1.000		2376668.11		A	0.6
3	☐	1.000		2353840.70		A	0.6
4	☐	1.000		2376529.64		A	1.4
5	☐	1.000		2318469.42		A	1.5
6	☐	1.000		2366270.29		A	1.7
7	☐	1.000		2367436.75		A	4.1
8	☐	1.000		2372891.78		A	1.1

45 Sc (ISTD) [No Gas]

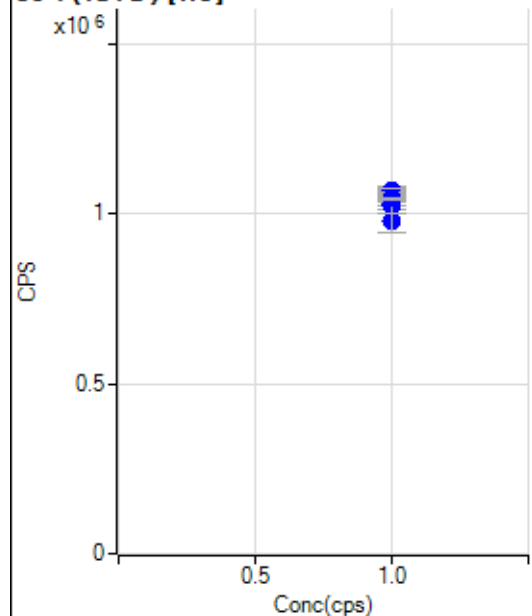
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3132308.98		A	0.8
2	☐	1.000		3187324.67		A	1.1
3	☐	1.000		3174562.87		A	1.4
4	☐	1.000		3235968.70		A	0.7
5	☐	1.000		3166477.90		A	3.2
6	☐	1.000		3253226.76		A	1.4
7	☐	1.000		3318105.61		A	1.7
8	☐	1.000		3278296.58		A	1.2

45 Sc (ISTD) [He]

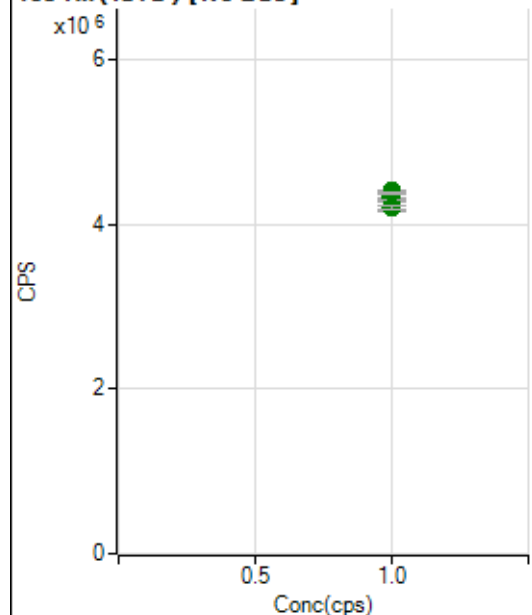
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		130589.00		P	1.4
2	☐	1.000		123702.38		P	7.0
3	☐	1.000		127796.34		P	4.0
4	☐	1.000		132941.85		P	1.2
5	☐	1.000		131834.58		P	3.1
6	☐	1.000		132588.83		P	0.8
7	☐	1.000		131434.67		P	0.4
8	☐	1.000		127965.25		P	0.8

89 Y (ISTD) [No Gas]

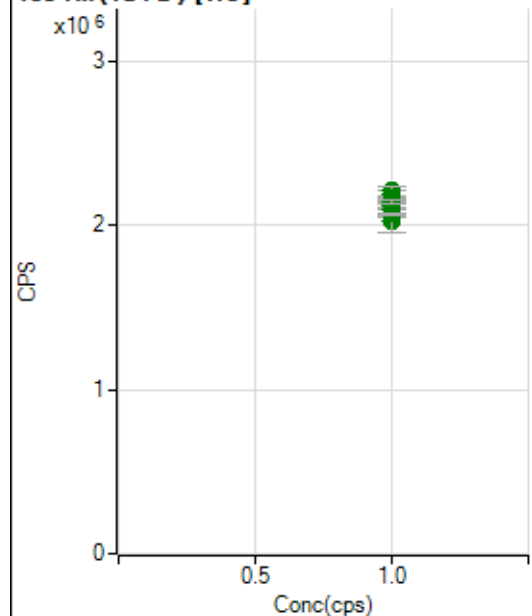
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8775184.25		A	1.3
2	☐	1.000		9053638.41		A	0.7
3	☐	1.000		8921554.38		A	1.8
4	☐	1.000		9113047.92		A	2.3
5	☐	1.000		8907519.45		A	2.3
6	☐	1.000		9120848.75		A	1.2
7	☐	1.000		9257714.66		A	1.4
8	☐	1.000		9082455.98		A	0.9

89 Y (ISTD) [He]

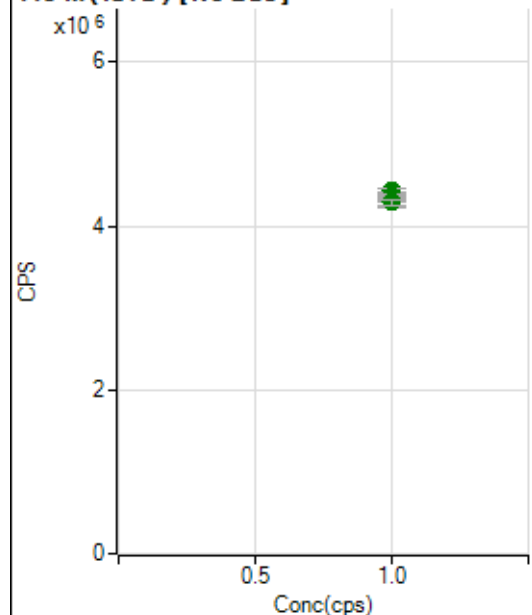
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1031720.15		P	1.2
2	☐	1.000		979620.25		P	7.5
3	☐	1.000		1023179.27		P	4.4
4	☐	1.000		1060780.81		P	1.6
5	☐	1.000		1066906.43		P	2.5
6	☐	1.000		1056730.36		P	0.6
7	☐	1.000		1068398.16		P	1.1
8	☐	1.000		1045101.91		P	0.8

103 Rh (ISTD) [No Gas]

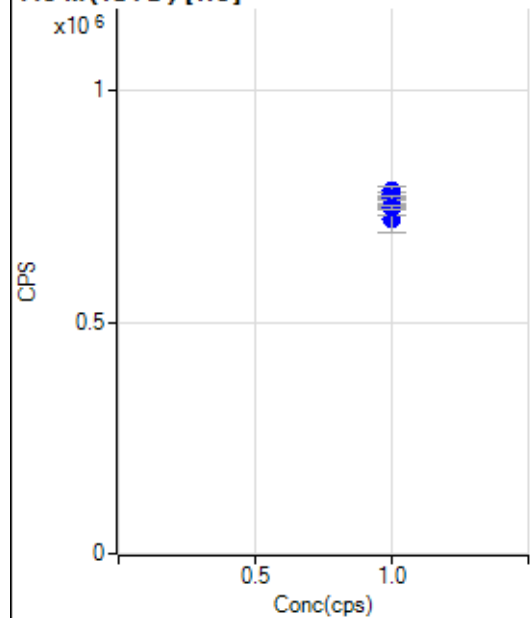
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4325594.71		A	2.0
2	☐	1.000		4345430.65		A	1.4
3	☐	1.000		4331372.36		A	2.5
4	☐	1.000		4341838.12		A	2.7
5	☐	1.000		4236943.11		A	3.4
6	☐	1.000		4411635.56		A	0.8
7	☐	1.000		4388757.52		A	0.8
8	☐	1.000		4200841.20		A	1.0

103 Rh (ISTD) [He]

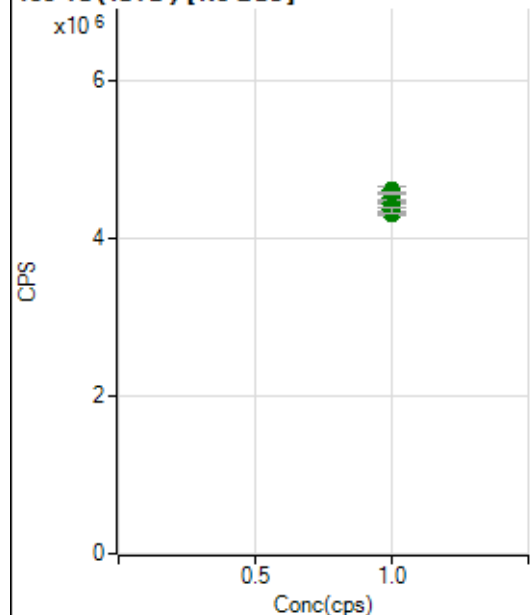
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2125094.50		A	1.5
2	☐	1.000		2025934.26		A	6.9
3	☐	1.000		2102257.19		A	4.4
4	☐	1.000		2194707.62		A	1.7
5	☐	1.000		2210617.38		A	2.5
6	☐	1.000		2165325.52		A	0.1
7	☐	1.000		2148347.52		A	1.1
8	☐	1.000		2068150.80		A	1.1

115 In (ISTD) [No Gas]

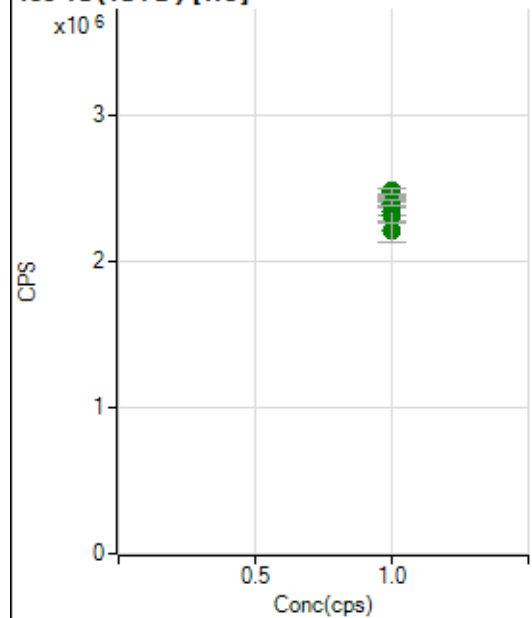
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4328791.58		A	1.7
2	☐	1.000		4428374.36		A	1.4
3	☐	1.000		4352188.25		A	0.5
4	☐	1.000		4396117.84		A	2.9
5	☐	1.000		4300771.99		A	3.0
6	☐	1.000		4426338.82		A	1.1
7	☐	1.000		4376422.50		A	0.4
8	☐	1.000		4291454.89		A	1.7

115 In (ISTD) [He]

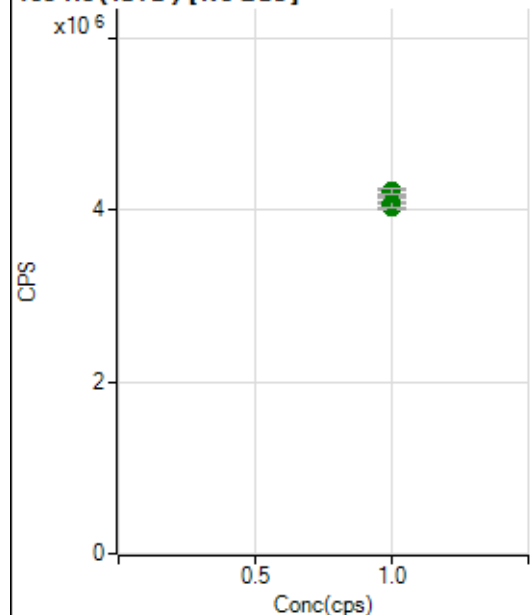
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		751052.98		P	0.9
2	☐	1.000		723430.98		P	7.8
3	☐	1.000		749898.37		P	4.9
4	☐	1.000		775727.15		P	0.9
5	☐	1.000		783314.32		P	2.8
6	☐	1.000		769864.40		P	0.2
7	☐	1.000		767804.10		P	1.1
8	☐	1.000		748222.99		P	1.2

159 Tb (ISTD) [No Gas]

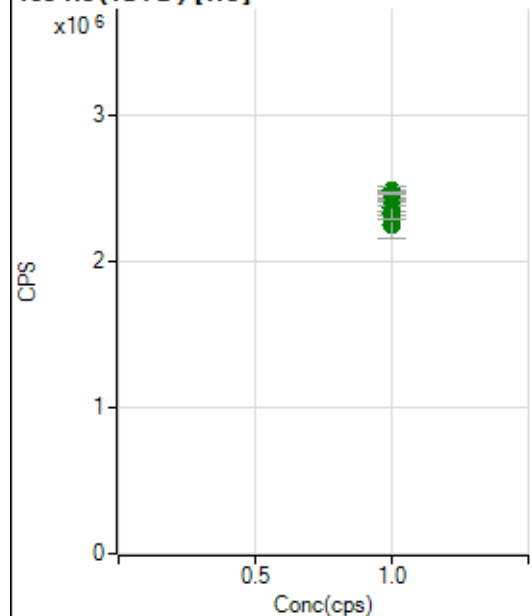
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4308326.15		A	0.9
2	☐	1.000		4387284.55		A	0.4
3	☐	1.000		4376316.46		A	2.4
4	☐	1.000		4425793.55		A	1.6
5	☐	1.000		4354012.68		A	1.7
6	☐	1.000		4595594.51		A	2.0
7	☐	1.000		4517220.66		A	1.7
8	☐	1.000		4570886.18		A	0.6

159 Tb (ISTD) [He]

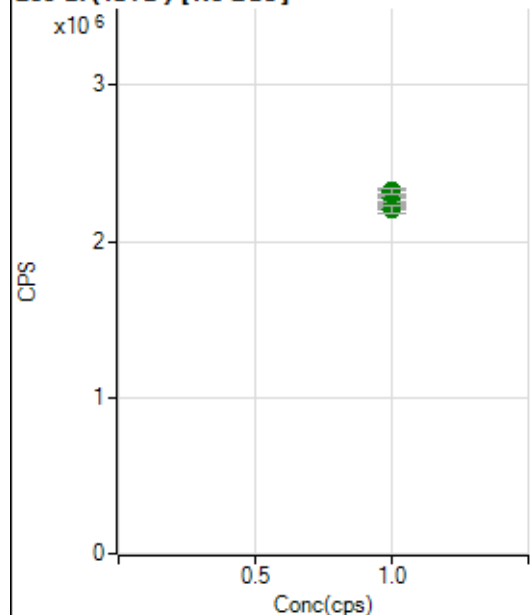
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2338054.32		A	2.0
2	☐	1.000		2204535.80		A	6.4
3	☐	1.000		2317469.79		A	4.8
4	☐	1.000		2421991.21		A	0.9
5	☐	1.000		2471296.52		A	2.7
6	☐	1.000		2439331.63		A	0.6
7	☐	1.000		2481153.85		A	1.3
8	☐	1.000		2398281.91		A	1.4

165 Ho (ISTD) [No Gas]

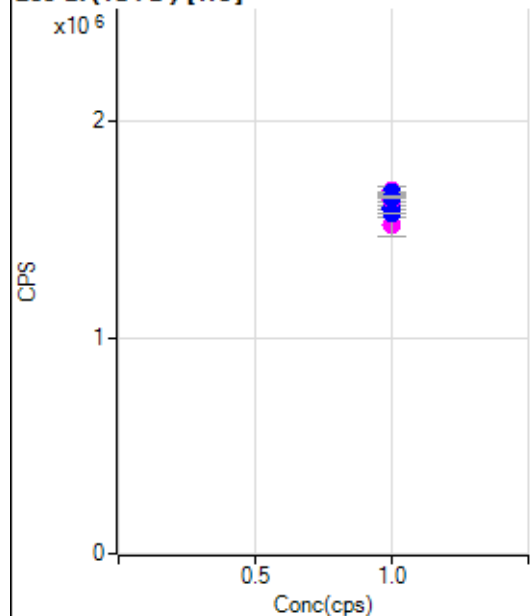
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4035722.40		A	1.8
2	☐	1.000		4072232.64		A	3.2
3	☐	1.000		4060462.89		A	2.2
4	☐	1.000		4089641.11		A	2.6
5	☐	1.000		4095670.06		A	3.5
6	☐	1.000		4189197.66		A	2.6
7	☐	1.000		4208899.92		A	1.7
8	☐	1.000		4225917.98		A	1.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2362252.08		A	3.5
2	☐	1.000		2248143.96		A	8.0
3	☐	1.000		2331935.77		A	3.8
4	☐	1.000		2427642.69		A	0.5
5	☐	1.000		2469198.77		A	3.3
6	☐	1.000		2479941.00		A	0.6
7	☐	1.000		2482810.07		A	2.0
8	☐	1.000		2466978.14		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2215769.88		A	1.1
2	☐	1.000		2289726.15		A	0.8
3	☐	1.000		2223365.09		A	0.5
4	☐	1.000		2272609.55		A	2.5
5	☐	1.000		2233037.80		A	1.7
6	☐	1.000		2311077.55		A	1.6
7	☐	1.000		2322532.80		A	1.9
8	☐	1.000		2204664.13		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1598430.27		P	0.9
2	☐	1.000		1521324.53		M	7.3
3	☐	1.000		1590068.40		P	4.3
4	☐	1.000		1636921.87		M	0.8
5	☐	1.000		1677584.58		M	2.1
6	☐	1.000		1669469.26		P	0.6
7	☐	1.000		1648192.80		P	0.3
8	☐	1.000		1576434.75		P	0.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8033021-MS.b
Acq. Date-Time 2021-03-30 14:37:56
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		7158	71582.55			1.976	5.000
24		90033	900327.80			1.968	5.000
25		12142	121419.11			1.873	5.000
26		13605	136050.88			1.527	5.000
59		13776	137764.97			1.353	5.000
113		5162	51624.62			1.656	5.000
115		16442	164424.00			1.973	5.000
206		5377	53765.42			1.921	5.000
207		4534	45338.88			1.762	5.000
208		11077	110766.33			1.407	5.000
220		1	10.00			21.795	

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

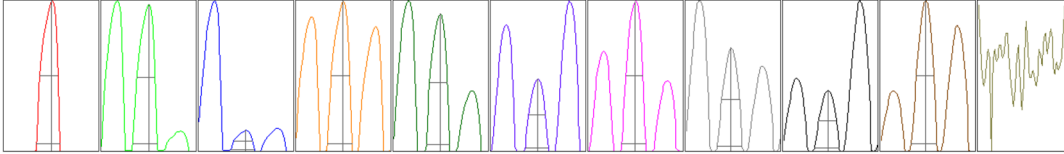
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7341	7215	7203	6993	7039
24	90795	89957	91288	86999	91125
25	12291	12219	12339	11772	12089
26	13782	13725	13753	13328	13437
59	13936	13858	13930	13528	13630
113	5201	5176	5277	5062	5096
115	16802	16460	16705	16029	16216
206	5454	5355	5511	5283	5280
207	4607	4506	4630	4470	4456
208	11102	10993	11319	10901	11068

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13344.96	9.05	8.90 - 9.10	
24	165368.75	24.05	23.90 - 24.10	
25	22091.98	25.00	24.90 - 25.10	
26	24828.15	26.00	25.90 - 26.10	
59	26247.86	59.00	58.90 - 59.10	
113	10278.18	113.00	112.90 - 113.10	
115	32122.77	115.00	114.90 - 115.10	
206	10099.90	205.95	205.90 - 206.10	
207	8311.25	206.95	206.90 - 207.10	
208	20740.11	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.735	0.900	
24	0.56	0.779	0.900	
25	0.58	0.763	0.900	
26	0.58	0.781	0.900	
59	0.56	0.735	0.900	
113	0.52	0.730	0.900	
115	0.53	0.763	0.900	
206	0.56	0.785	0.900	
207	0.56	0.786	0.900	
208	0.56	0.813	0.900	
220	0.17			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.1 V	Deflect	15.4 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	170 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.0 mm
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EM

Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3124	31244.98			0.588	
89		16680	166796.29			0.478	
205		5638	56381.09			0.589	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3134	3125	3127	3142	3094
89	16712	16732	16658	16745	16550
205	5681	5651	5598	5648	5613

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.1 V	Deflect	5.4 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	1.3 mm	Torch V	-1.0 mm		
EM					
Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1370 V