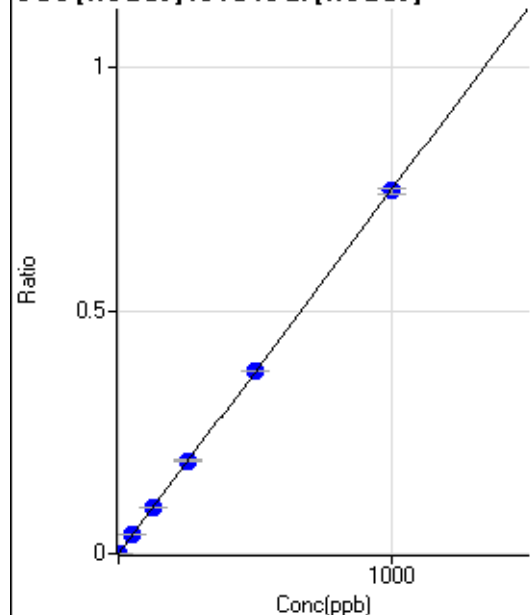


Batch Folder: D:\P8030918 MS.b\
Analysis File: P8030918 MS.batch.bin
DA Date-Time: 2018-03-11 09:41:11
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2018-03-09 12:43:57
2			
3	006CALS.d	S02	2018-03-09 12:51:25
4	007CALS.d	S03	2018-03-09 12:55:07
5	008CALS.d	S04	2018-03-09 12:58:50
6	009CALS.d	S05	2018-03-09 13:02:27
7	010CALS.d	S06	2018-03-09 13:05:58
8	011CALS.d	S07	2018-03-09 13:09:26
9	012CALS.d	S08	2018-03-09 13:12:50

9 Be [NoGas] ISTD:6 Li [NoGas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.30	0.0001	P	28.1
2	☐	0.100					
3	☐	1.000	0.951	861.16	0.0008	P	8.0
4	☐	50.000	53.432	43581.24	0.0401	P	2.4
5	☐	125.000	128.387	105623.69	0.0962	P	1.5
6	☐	250.000	256.038	207515.69	0.1917	P	0.8
7	☐	500.000	501.243	403113.39	0.3752	P	0.2
8	☐	1000.000	997.274	785088.88	0.7464	P	1.4
9	☐			546.32	0.0005	P	7.2

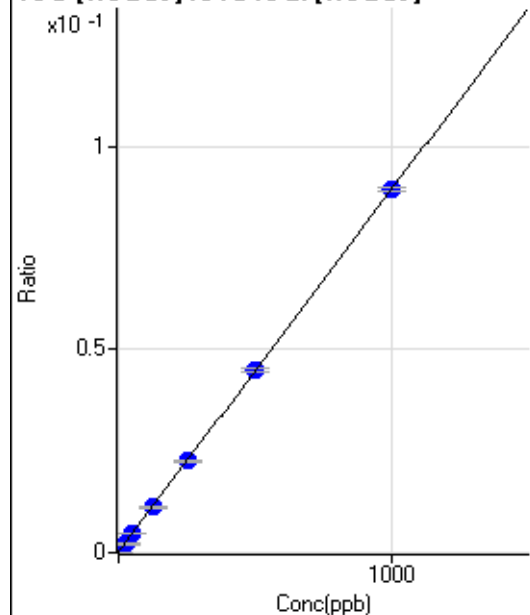
$$y = 7.4839\text{E-}004 * x + 8.7406\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.09847$$

Weight: <None>

Min Conc: 0

10 B [NoGas] ISTD:6 Li [NoGas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250.01	0.0002	P	5.4
2	☐	2.500					
3	☐	25.000	22.214	2380.86	0.0022	P	7.3
4	☐	50.000	52.324	5323.46	0.0049	P	2.1
5	☐	125.000	122.675	12261.27	0.0112	P	4.0
6	☐	250.000	250.414	24418.90	0.0226	P	3.5
7	☐	500.000	501.769	48304.30	0.0450	P	2.3
8	☐	1000.000	999.256	93950.69	0.0893	P	1.2
9	☐			4450.89	0.0044	P	10.8

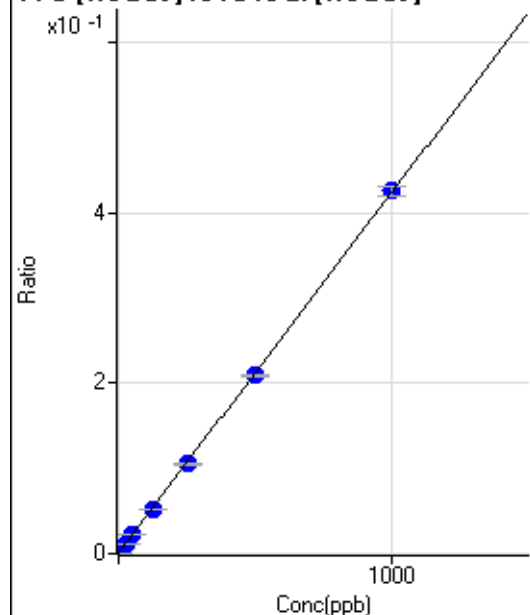
$$y = 8.9162\text{E-}005 * x + 2.2688\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.4102$$

Weight: <None>

Min Conc: 0

11 B [NoGas] ISTD:6 Li [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1116.76	0.0010	P	8.8
2	☐	2.500					
3	☐	25.000	21.966	11124.19	0.0103	P	1.0
4	☐	50.000	50.646	24393.69	0.0224	P	4.7
5	☐	125.000	120.930	57304.23	0.0522	P	1.2
6	☐	250.000	247.576	114474.22	0.1057	P	1.6
7	☐	500.000	492.008	224690.38	0.2091	P	1.9
8	☐	1000.000	1005.154	448248.41	0.4262	P	2.6
9	☐			20974.46	0.0210	P	8.1

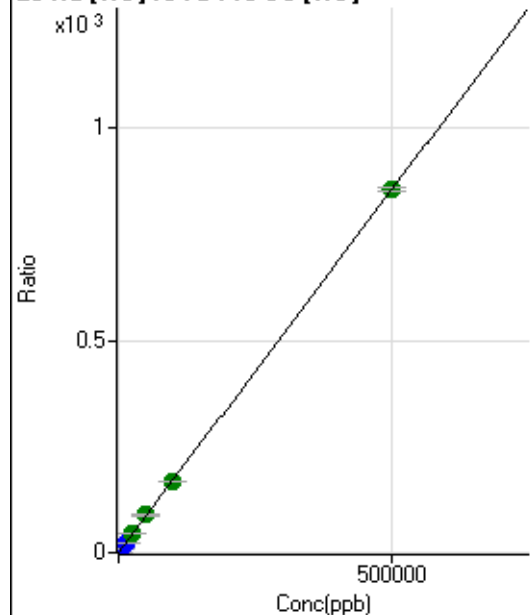
$$y = 4.2302\text{E-}004 * x + 0.0010$$

$$R = 0.9999$$

$$DL = 0.6308$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4689.85	0.1391	P	1.7
2	☐	50.000					
3	☐	500.000	460.380	31051.63	0.9261	P	3.0
4	☐	5000.000	5030.901	288661.77	8.7401	P	1.4
5	☐	12500.000	12941.420	698850.62	22.2642	P	2.9
6	☐	25000.000	25468.522	1386378.94	43.6810	A	1.4
7	☐	50000.000	51687.597	2664279.53	88.5061	A	5.2
8	☐	100000.00	97953.135	5156880.41	167.6033	A	1.2
9	☐	500000.00	500205.88	23860659.04	855.3093	A	1.0

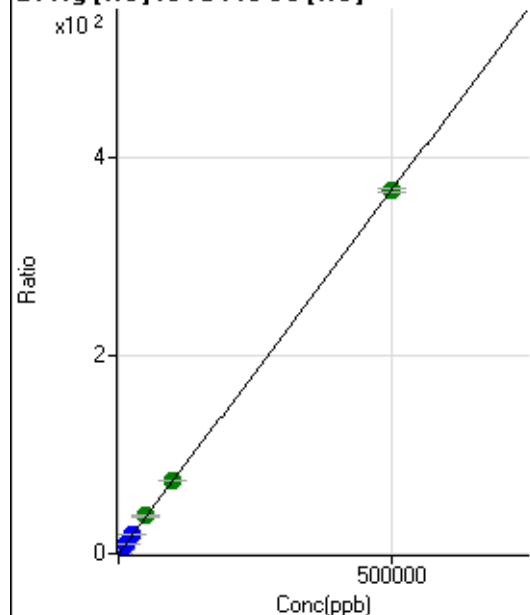
$$y = 0.0017 * x + 0.1391$$

$$R = 1.0000$$

$$DL = 4.109$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	347.24	0.0103	P	7.3
2	☐	50.000					
3	☐	500.000	465.105	11783.11	0.3514	P	2.2
4	☐	5000.000	5169.707	125561.58	3.8014	P	0.5
5	☐	12500.000	13230.447	304865.23	9.7126	P	3.0
6	☐	25000.000	25574.478	595576.51	18.7649	P	1.0
7	☐	50000.000	52676.664	1163010.86	38.6398	A	5.7
8	☐	100000.00	100589.98	2269982.15	73.7761	A	0.8
9	☐	500000.00	499565.69	10220456.56	366.3576	A	1.0

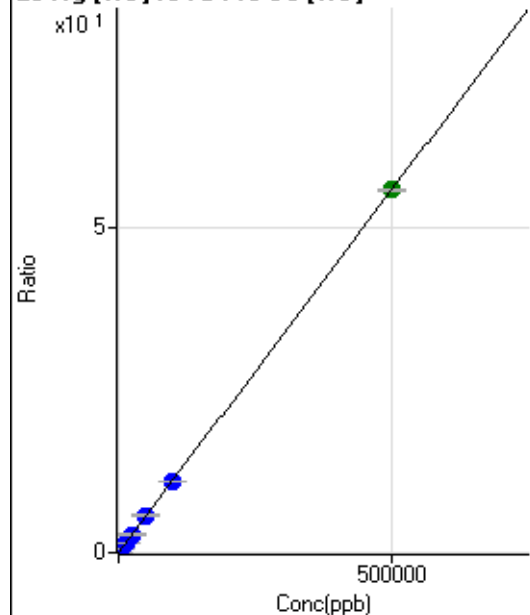
$$y = 7.3333\text{E-}004 * x + 0.0103$$

$$R = 1.0000$$

$$DL = 3.071$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0015	P	17.4
2	☐	50.000					
3	☐	500.000	474.217	1822.42	0.0544	P	9.1
4	☐	5000.000	4934.981	18229.05	0.5520	P	3.7
5	☐	12500.000	12803.682	44885.73	1.4298	P	2.2
6	☐	25000.000	25175.092	89182.31	2.8099	P	0.7
7	☐	50000.000	50647.971	170163.17	5.6515	P	4.4
8	☐	100000.00	97345.206	334169.74	10.8607	P	0.7
9	☐	500000.00	500450.49	1557492.35	55.8287	A	0.8

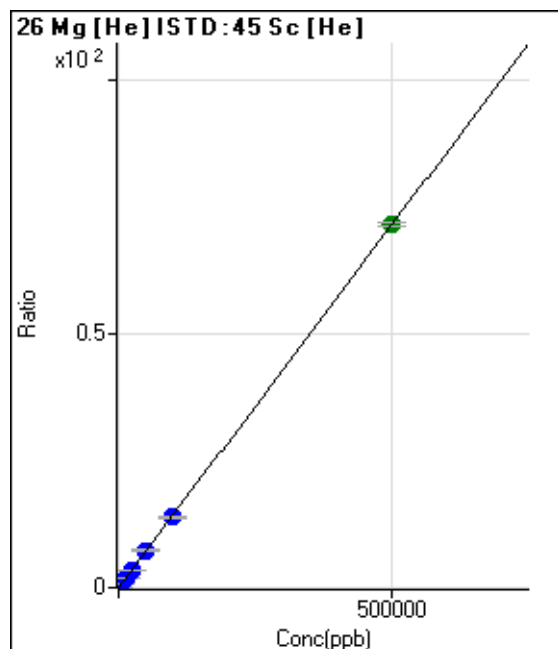
$$y = 1.1155\text{E-}004 * x + 0.0015$$

$$R = 1.0000$$

$$DL = 6.954$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.34	0.0017	P	38.4
2	☐	50.000					
3	☐	500.000	432.223	2125.25	0.0635	P	11.4
4	☐	5000.000	5083.893	24035.11	0.7277	P	1.1
5	☐	12500.000	12883.975	57801.73	1.8415	P	3.2
6	☐	25000.000	24769.994	112319.32	3.5388	P	0.1
7	☐	50000.000	51203.893	220110.75	7.3135	P	5.9
8	☐	100000.00	96970.210	426112.22	13.8488	P	0.4
9	☐	500000.00	500486.69	1993735.83	71.4696	A	0.9

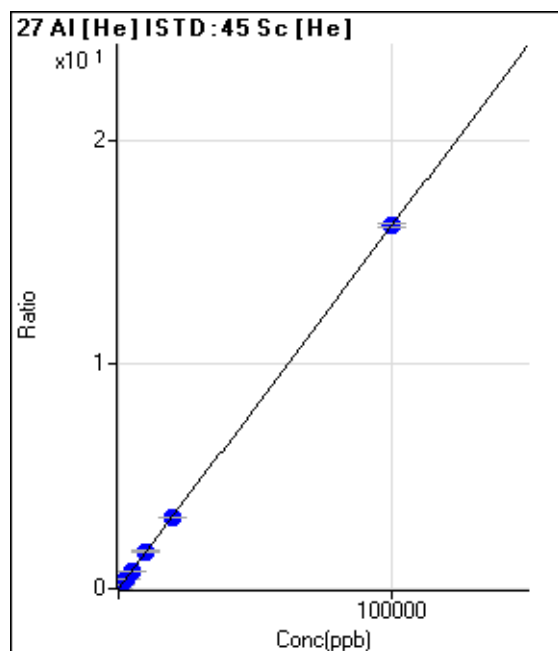
$$y = 1.4280\text{E-}004 * x + 0.0017$$

$$R = 1.0000$$

$$DL = 13.99$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0004	P	92.0
2	☐	2.000					
3	☐	20.000	15.374	97.23	0.0029	P	25.8
4	☐	1000.000	1001.194	5359.58	0.1622	P	3.1
5	☐	2500.000	2728.771	13860.02	0.4415	P	2.5
6	☐	5000.000	4967.664	25498.93	0.8034	P	2.6
7	☐	10000.000	10177.810	49542.98	1.6455	P	5.0
8	☐	20000.000	19643.738	97708.42	3.1756	P	0.9
9	☐	100000.00	100049.35	451161.40	16.1723	P	1.1

$$y = 1.6164\text{E-}004 * x + 4.1127\text{E-}004$$

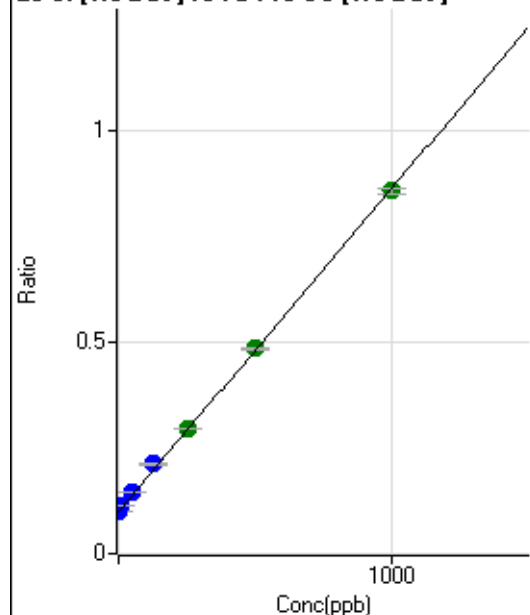
$$R = 1.0000$$

$$DL = 7.021$$

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	361344.25	0.0993	P	3.0
2	☐	1.000					
3	☐	10.000	17.235	399933.49	0.1124	P	2.2
4	☐	50.000	60.984	521613.29	0.1457	P	1.7
5	☐	125.000	146.711	755480.46	0.2111	P	1.3
6	☐	250.000	254.902	1050027.27	0.2936	A	0.3
7	☐	500.000	504.861	1700467.64	0.4841	A	0.6
8	☐	1000.000	993.009	3001022.88	0.8561	A	1.7
9	☐			1342319.74	0.4047	A	4.1

$$y = 7.6221\text{E-}004 * x + 0.0993$$

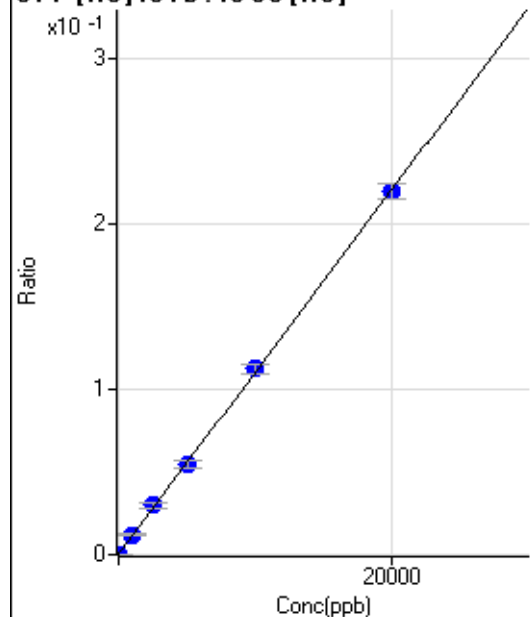
$$R = 0.9998$$

$$DL = 11.76$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	11.228	11.11	0.0003	P	86.6
2	☐	0.000					
3	☐	0.000	-11.228	2.78	0.0001	P	173.
4	☐	1000.000	1058.270	391.69	0.0119	P	6.9
5	☐	2500.000	2690.715	938.97	0.0298	P	11.7
6	☐	5000.000	4923.447	1727.97	0.0544	P	8.5
7	☐	10000.000	10175.557	3381.12	0.1123	P	6.0
8	☐	20000.000	19904.607	6751.90	0.2195	P	4.2
9	☐			5.55	0.0002	P	86.6

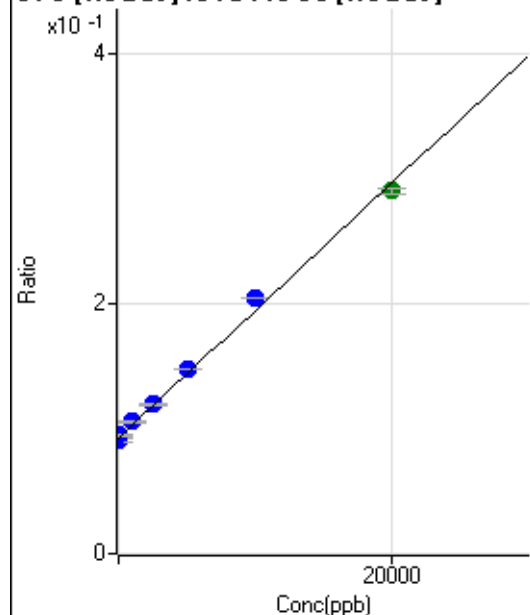
$$y = 1.1015\text{E-}005 * x + 2.0491\text{E-}004$$

$$R = 0.9999$$

$$DL = 57.91$$

Weight: <None>

Min Conc: 0

34 S [NoGas] ISTD:45 Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-191.959	331253.50	0.0910	P	2.5
2	☐	0.000					
3	☐	0.000	191.959	337711.74	0.0949	P	1.3
4	☐	1000.000	1241.833	377964.30	0.1056	P	1.4
5	☐	2500.000	2627.914	428558.01	0.1197	P	1.2
6	☐	5000.000	5364.139	528045.36	0.1476	P	0.6
7	☐	10000.000	10994.858	720200.73	0.2050	P	0.5
8	☐	20000.000	19383.455	1018422.13	0.2905	A	1.8
9	☐			297787.45	0.0898	P	2.6

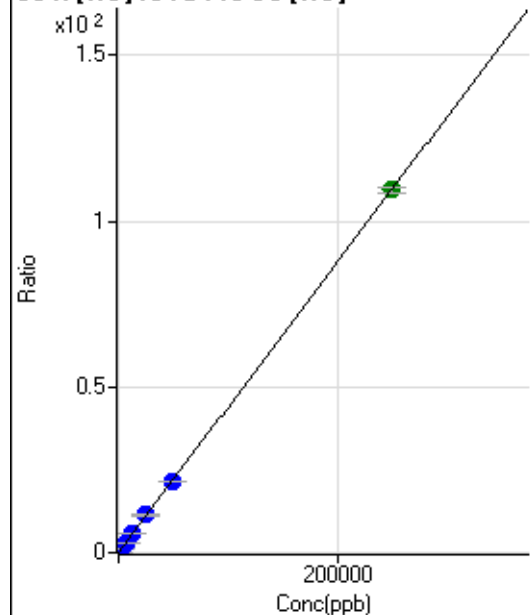
$$y = 1.0194\text{E-}005 * x + 0.0929$$

$$R = 0.9978$$

$$DL = 507.7$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2419.76	0.0718	P	7.3
2	☐	50.000					
3	☐	500.000	457.722	9117.21	0.2718	P	1.1
4	☐	2500.000	2563.972	39386.66	1.1924	P	0.6
5	☐	6250.000	6475.786	91099.90	2.9022	P	2.9
6	☐	12500.000	12571.602	176678.12	5.5666	P	1.0
7	☐	25000.000	25715.040	340530.10	11.3114	P	4.9
8	☐	50000.000	49019.035	661430.96	21.4971	P	0.9
9	☐	250000.00	250114.90	3051899.03	109.3927	A	1.9

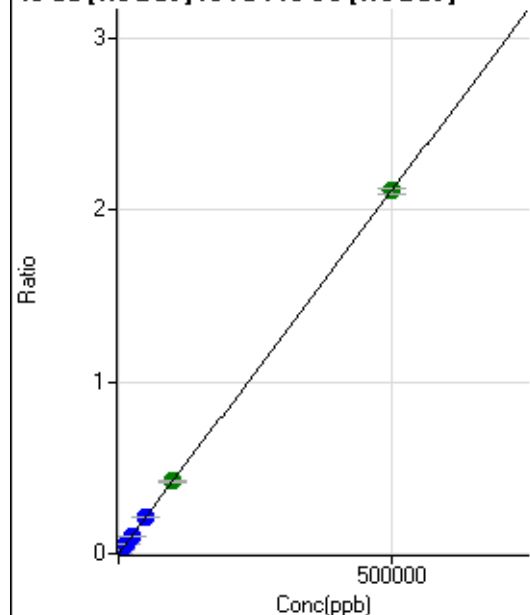
$$y = 4.3708\text{E-}004 * x + 0.0718$$

$$R = 1.0000$$

$$DL = 36.09$$

Weight: <None>

Min Conc: 0

43 Ca [NoGas] ISTD:45 Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	719.50	0.0002	P	6.8
2	☐	50.000					
3	☐	500.000	452.311	7499.55	0.0021	P	3.4
4	☐	5000.000	5021.167	76603.66	0.0214	P	1.9
5	☐	12500.000	12377.555	187794.95	0.0525	P	1.7
6	☐	25000.000	24590.644	372195.74	0.1041	P	0.9
7	☐	50000.000	49512.901	735255.69	0.2093	P	0.2
8	☐	100000.00	99531.946	1473955.17	0.4206	A	3.1
9	☐	500000.00	500165.68	7007298.33	2.1126	A	1.3

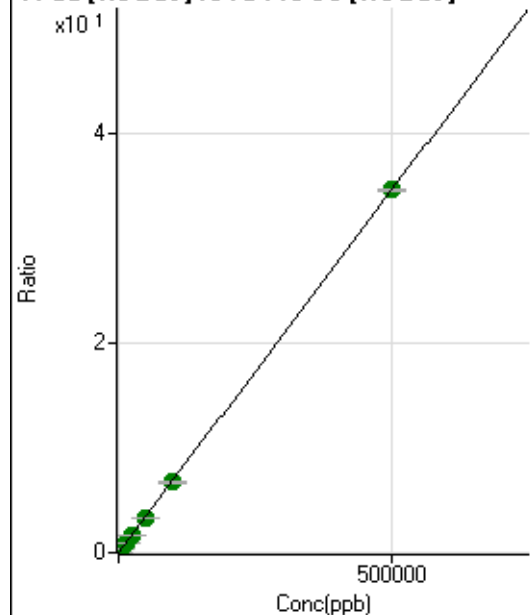
$$y = 4.2233\text{E-}006 * x + 1.9777\text{E-}004$$

$$R = 1.0000$$

$$DL = 9.55$$

Weight: <None>

Min Conc: 0

44 Ca [NoGas] ISTD:45 Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13932.48	0.0038	P	2.8
2	☐	50.000					
3	☐	500.000	449.325	124285.57	0.0349	P	2.3
4	☐	5000.000	5039.358	1262186.01	0.3527	A	2.2
5	☐	12500.000	12318.761	3065848.18	0.8566	A	0.8
6	☐	25000.000	24453.810	6068778.70	1.6966	A	0.9
7	☐	50000.000	48868.211	11896635.86	3.3867	A	0.3
8	☐	100000.00	97542.103	23681171.36	6.7560	A	2.0
9	☐	500000.00	500636.25	114968845.6	34.6597	A	0.8

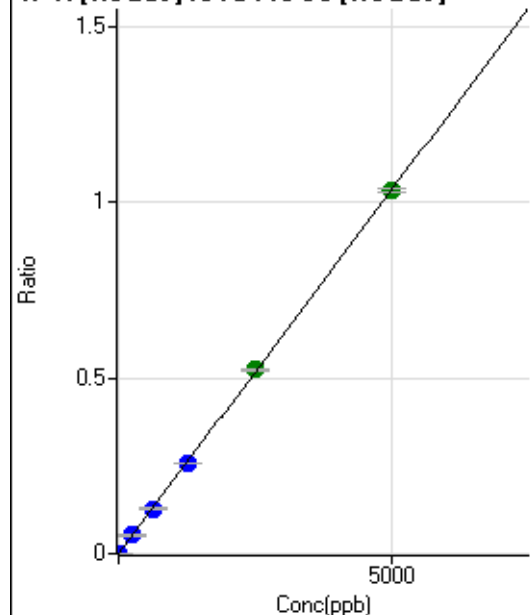
$$y = 6.9224\text{E-}005 * x + 0.0038$$

$$R = 1.0000$$

$$DL = 4.709$$

Weight: <None>

Min Conc: 0

47 Ti [NoGas] ISTD : 45 Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.34	0.0000	P	15.6
2	☐	0.500					
3	☐	5.000	4.823	3659.00	0.0010	P	0.4
4	☐	250.000	252.004	186781.60	0.0522	P	1.7
5	☐	625.000	620.659	459892.05	0.1285	P	1.0
6	☐	1250.000	1232.506	912589.01	0.2551	P	0.3
7	☐	2500.000	2529.136	1838924.59	0.5235	A	1.1
8	☐	5000.000	4990.248	3620810.71	1.0329	A	1.2
9	☐			900.08	0.0003	P	10.1

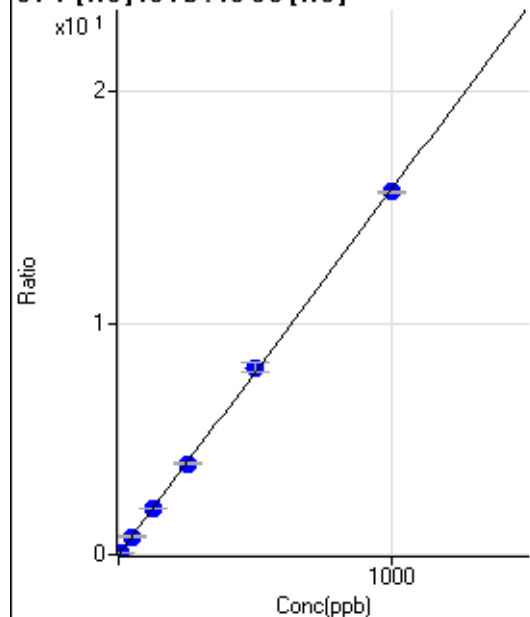
$$y = 2.0698\text{E-}004 * x + 2.9824\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.06756$$

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	0.0002	P	68.4
2	☐	0.500					
3	☐	5.000	4.522	2398.03	0.0715	P	4.3
4	☐	50.000	49.893	26009.92	0.7875	P	1.7
5	☐	125.000	127.393	63118.16	2.0106	P	2.1
6	☐	250.000	249.530	124990.14	3.9381	P	0.6
7	☐	500.000	512.975	243732.20	8.0955	P	4.7
8	☐	1000.000	993.339	482339.48	15.6762	P	0.5
9	☐			141.11	0.0051	P	18.9

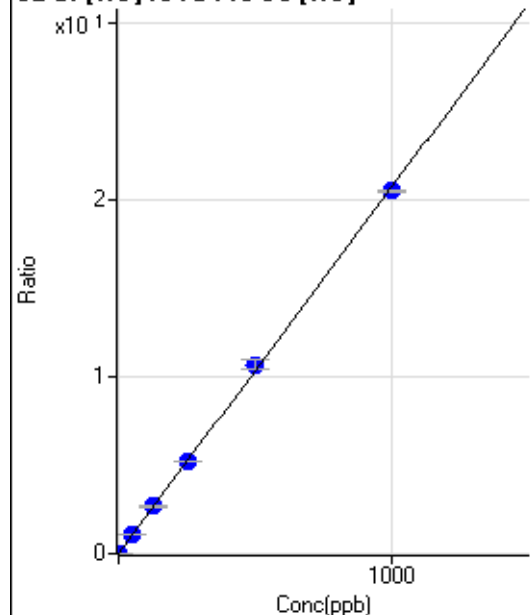
$$y = 0.0158 * x + 1.6403\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.02133$$

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	284.45	0.0084	P	7.3
2	☐	0.200					
3	☐	2.000	1.964	1646.79	0.0491	P	5.9
4	☐	50.000	50.849	35079.63	1.0621	P	1.5
5	☐	125.000	129.353	84393.49	2.6888	P	3.4
6	☐	250.000	251.093	165404.99	5.2115	P	1.3
7	☐	500.000	516.918	322761.35	10.7198	P	4.5
8	☐	1000.000	990.681	631897.52	20.5369	P	0.4
9	☐			14479.89	0.5191	P	1.1

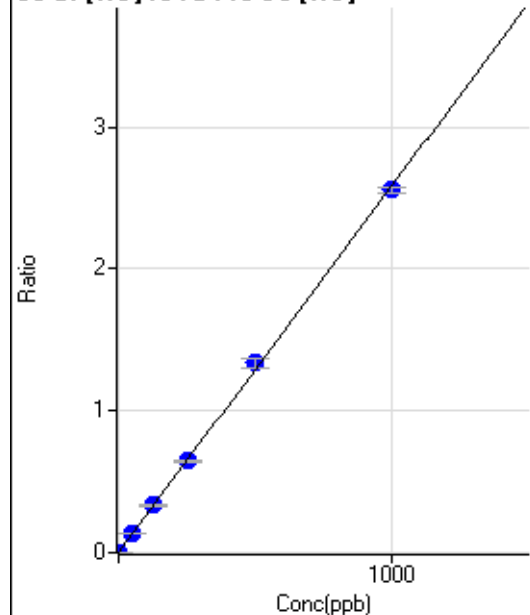
$$y = 0.0207 * x + 0.0084$$

$$R = 0.9998$$

$$DL = 0.08857$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.11	0.0012	P	20.7
2	☐	0.200					
3	☐	2.000	1.568	176.67	0.0053	P	3.8
4	☐	50.000	50.737	4366.31	0.1322	P	2.1
5	☐	125.000	128.718	10468.52	0.3335	P	2.7
6	☐	250.000	249.599	20488.51	0.6455	P	0.7
7	☐	500.000	518.180	40309.14	1.3388	P	4.7
8	☐	1000.000	990.509	78708.79	2.5581	P	1.5
9	☐			1779.04	0.0637	P	7.3

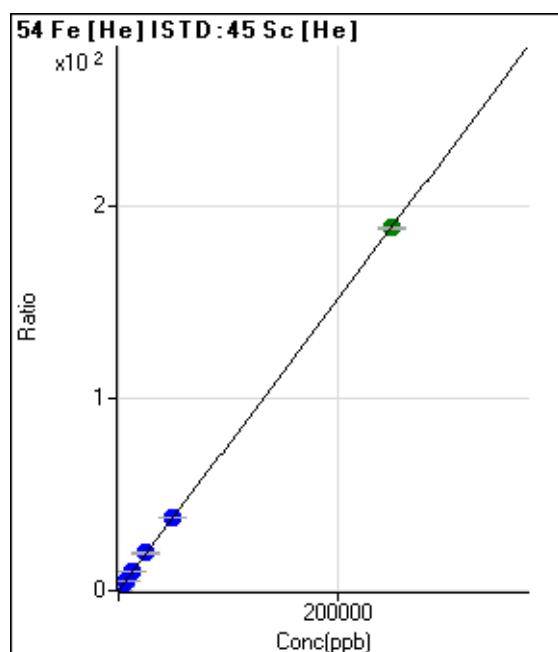
$$y = 0.0026 * x + 0.0012$$

$$R = 0.9997$$

$$DL = 0.2936$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0026	P	37.4
2	☐	5.000					
3	☐	50.000	49.284	1334.53	0.0398	P	4.2
4	☐	2500.000	2542.199	63376.30	1.9190	P	2.0
5	☐	6250.000	6530.072	154609.60	4.9251	P	2.3
6	☐	12500.000	12772.889	305677.52	9.6310	P	0.7
7	☐	25000.000	26224.412	595222.39	19.7709	P	4.9
8	☐	50000.000	50356.731	1168038.93	37.9621	P	0.7
9	☐	250000.00	249785.14	5252778.12	188.2934	A	0.2

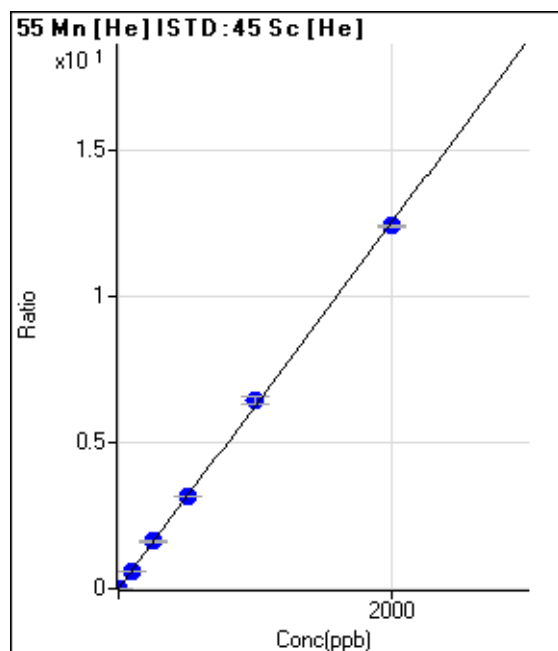
$$y = 7.5381E-004 * x + 0.0026$$

$$R = 1.0000$$

$$DL = 3.931$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	28.89	0.0009	P	29.0
2	☐	0.100					
3	☐	1.000	0.855	207.78	0.0062	P	9.0
4	☐	100.000	99.300	20508.59	0.6209	P	0.8
5	☐	250.000	258.770	50753.07	1.6167	P	2.3
6	☐	500.000	502.847	99686.51	3.1408	P	0.7
7	☐	1000.000	1029.755	193638.90	6.4310	P	4.4
8	☐	2000.000	1983.350	381087.64	12.3856	P	0.6
9	☐			1291.19	0.0463	P	6.3

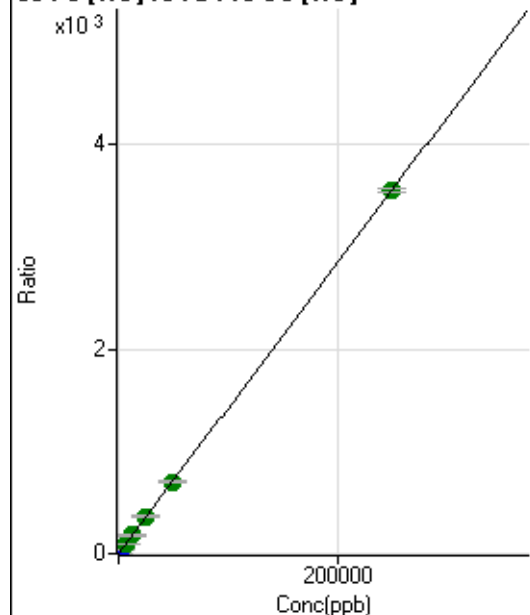
$$y = 0.0062 * x + 8.5644E-004$$

$$R = 0.9998$$

$$DL = 0.1194$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1074.15	0.0319	P	3.6
2	☐	5.000					
3	☐	50.000	46.351	23134.48	0.6898	P	0.9
4	☐	2500.000	2513.250	1179404.70	35.7082	P	0.6
5	☐	6250.000	6546.292	2917964.33	92.9584	A	2.8
6	☐	12500.000	12612.668	5683562.98	179.0725	A	1.1
7	☐	25000.000	25773.040	11014963.56	365.8880	A	5.0
8	☐	50000.000	49581.508	21656642.38	703.8564	A	0.7
9	☐	250000.00	249993.22	98995226.29	3,548.761	A	1.1

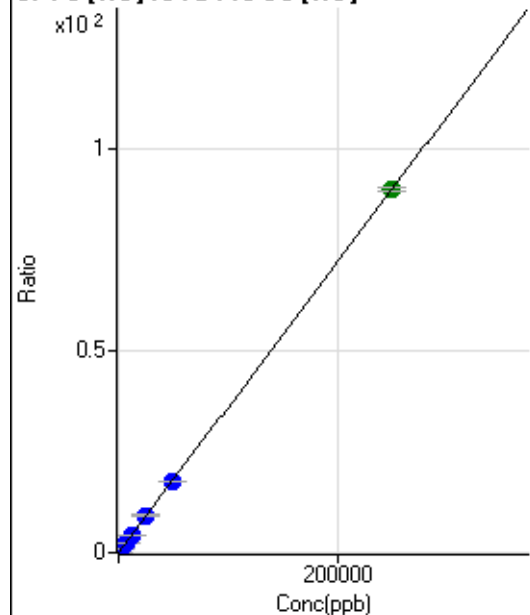
$$y = 0.0142 * x + 0.0319$$

$$R = 1.0000$$

$$DL = 0.2396$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.19	0.0010	P	36.9
2	☐	5.000					
3	☐	50.000	44.145	566.70	0.0169	P	16.0
4	☐	2500.000	2507.060	29802.84	0.9023	P	1.2
5	☐	6250.000	6445.831	72765.17	2.3184	P	3.6
6	☐	12500.000	12536.534	143080.25	4.5080	P	0.3
7	☐	25000.000	25637.250	277540.40	9.2178	P	4.5
8	☐	50000.000	49280.281	545135.84	17.7176	P	1.1
9	☐	250000.00	250073.42	2508086.86	89.9039	A	1.0

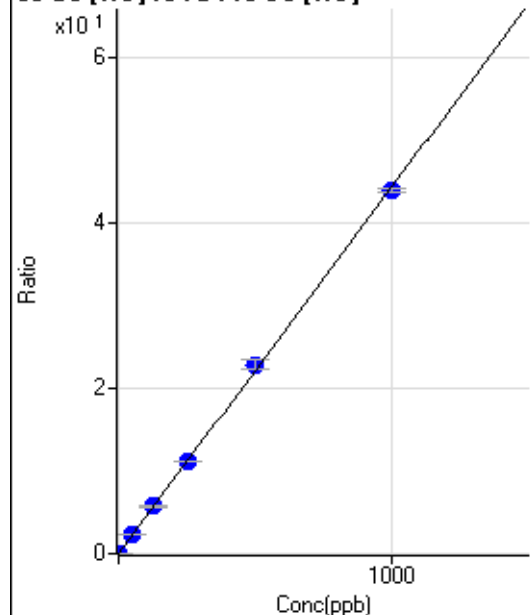
$$y = 3.5951E-004 * x + 0.0010$$

$$R = 1.0000$$

$$DL = 3.212$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	53.33	0.0016	P	11.7
2	☐	0.100					
3	☐	1.000	0.973	1498.99	0.0447	P	2.5
4	☐	50.000	50.215	73573.09	2.2276	P	1.1
5	☐	125.000	128.942	179501.68	5.7175	P	1.8
6	☐	250.000	252.415	355191.74	11.1910	P	0.7
7	☐	500.000	516.678	689611.13	22.9057	P	4.8
8	☐	1000.000	990.554	1351108.43	43.9124	P	0.9
9	☐			1694.58	0.0607	P	1.2

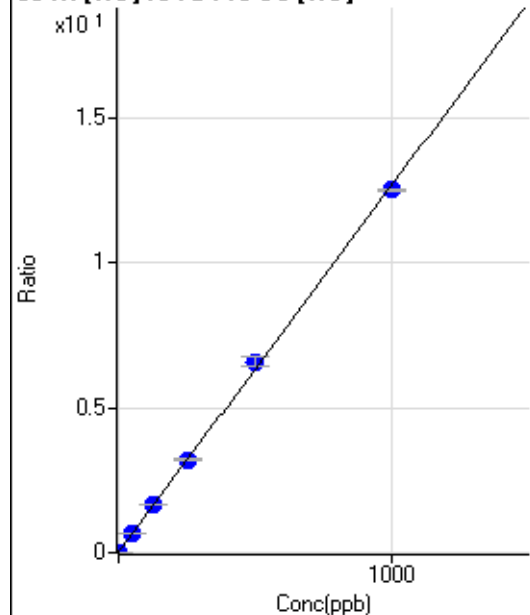
$$y = 0.0443 * x + 0.0016$$

$$R = 0.9998$$

$$DL = 0.0125$$

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	476.68	0.0141	P	7.2
2	☐	0.100					
3	☐	1.000	0.885	848.93	0.0253	P	5.9
4	☐	50.000	51.434	21928.55	0.6639	P	1.2
5	☐	125.000	130.176	52066.02	1.6587	P	2.8
6	☐	250.000	252.839	101828.67	3.2083	P	1.1
7	☐	500.000	520.233	198283.05	6.5864	P	5.0
8	☐	1000.000	988.455	384653.94	12.5016	P	0.7
9	☐			5702.36	0.2045	P	2.0

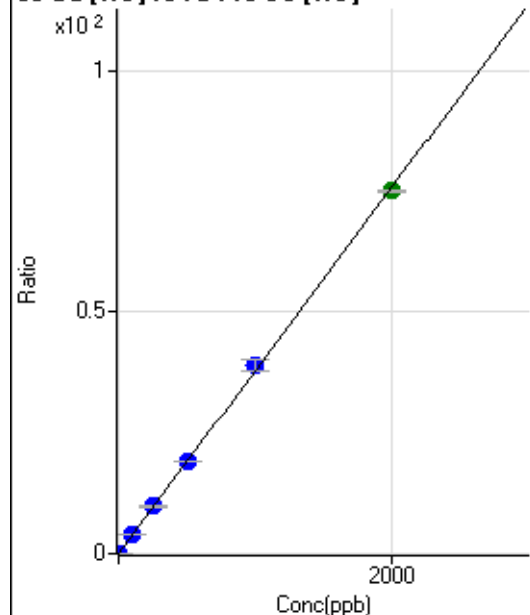
$$y = 0.0126 * x + 0.0141$$

$$R = 0.9997$$

$$DL = 0.241$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	137.78	0.0041	P	24.8
2	☐	0.200					
3	☐	2.000	1.830	2462.49	0.0734	P	0.8
4	☐	100.000	100.809	126237.94	3.8221	P	0.8
5	☐	250.000	258.132	307006.18	9.7805	P	2.8
6	☐	500.000	503.361	605208.51	19.0682	P	0.4
7	☐	1000.000	1030.703	1175213.46	39.0406	P	5.3
8	☐	2000.000	1982.751	2310648.93	75.0982	A	0.9
9	☐			3399.37	0.1219	P	0.6

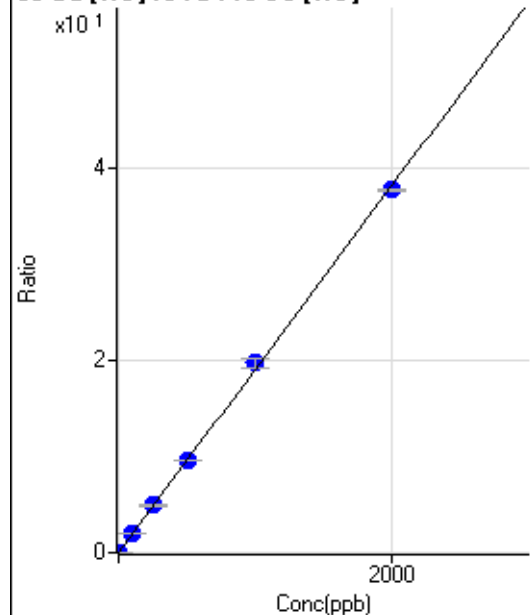
$$y = 0.0379 * x + 0.0041$$

$$R = 0.9998$$

$$DL = 0.08045$$

Weight: <None>

Min Conc: 0

⁶⁵Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64.45	0.0019	P	20.2
2	☐	0.200					
3	☐	2.000	1.869	1255.64	0.0375	P	8.2
4	☐	100.000	100.992	63534.64	1.9236	P	0.3
5	☐	250.000	260.061	155366.13	4.9502	P	3.6
6	☐	500.000	505.789	305518.47	9.6259	P	0.6
7	☐	1000.000	1036.553	593847.62	19.7251	P	4.8
8	☐	2000.000	1978.969	1158656.92	37.6570	P	0.7
9	☐			1694.58	0.0608	P	8.0

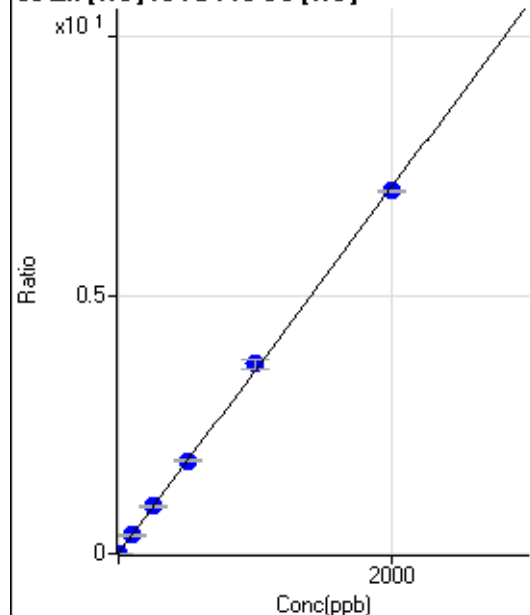
$$y = 0.0190 * x + 0.0019$$

$$R = 0.9997$$

$$DL = 0.06075$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0039	P	6.3
2	☐	0.200					
3	☐	2.000	1.859	350.01	0.0104	P	3.5
4	☐	100.000	99.514	11770.73	0.3564	P	1.9
5	☐	250.000	258.409	28854.63	0.9193	P	3.2
6	☐	500.000	506.609	57085.97	1.7986	P	1.1
7	☐	1000.000	1033.616	110367.76	3.6656	P	4.5
8	☐	2000.000	1980.513	215999.81	7.0201	P	0.3
9	☐			818.93	0.0293	P	2.3

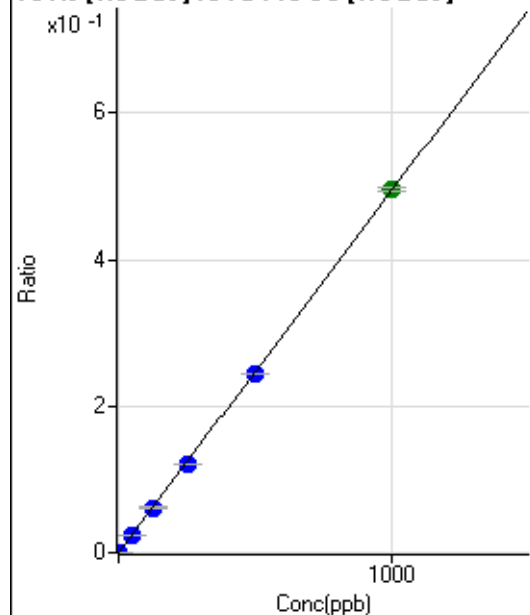
$$y = 0.0035 * x + 0.0039$$

$$R = 0.9998$$

$$DL = 0.2069$$

Weight: <None>

Min Conc: 0

⁷⁵As [NoGas] ISTD: ⁴⁵Sc [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.01	0.0000	P	46.4
2	☐	0.100					
3	☐	1.000	0.968	1800.21	0.0005	P	5.2
4	☐	50.000	49.399	87365.73	0.0244	P	2.1
5	☐	125.000	123.848	218885.71	0.0612	P	1.8
6	☐	250.000	246.447	435226.28	0.1217	P	0.6
7	☐	500.000	495.772	859732.20	0.2447	P	0.4
8	☐	1000.000	1003.176	1735951.04	0.4952	A	1.1
9	☐			708.39	0.0002	P	6.7

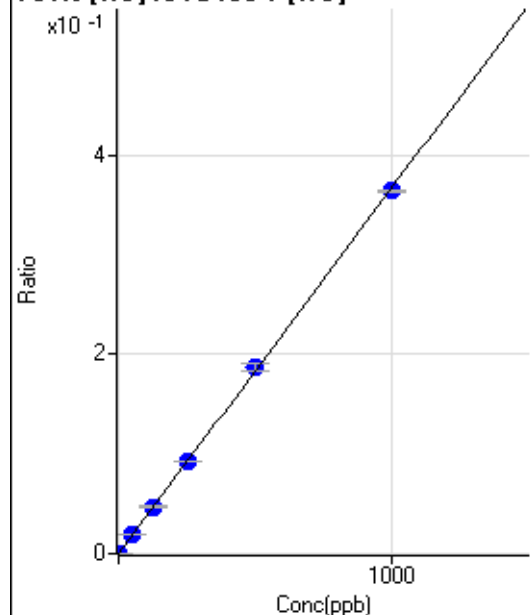
$$y = 4.9361E-004 * x + 2.7532E-005$$

$$R = 1.0000$$

$$DL = 0.07772$$

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	1.23	0.0000	P	86.6
2	☐	0.100					
3	☐	1.000	1.016	91.36	0.0004	P	10.8
4	☐	50.000	51.473	4549.56	0.0189	P	2.0
5	☐	125.000	128.432	10929.09	0.0471	P	1.7
6	☐	250.000	252.343	21780.19	0.0926	P	0.4
7	☐	500.000	512.192	42208.04	0.1880	P	4.3
8	☐	1000.000	992.816	83066.59	0.3643	P	0.8
9	☐			39.51	0.0002	P	18.2

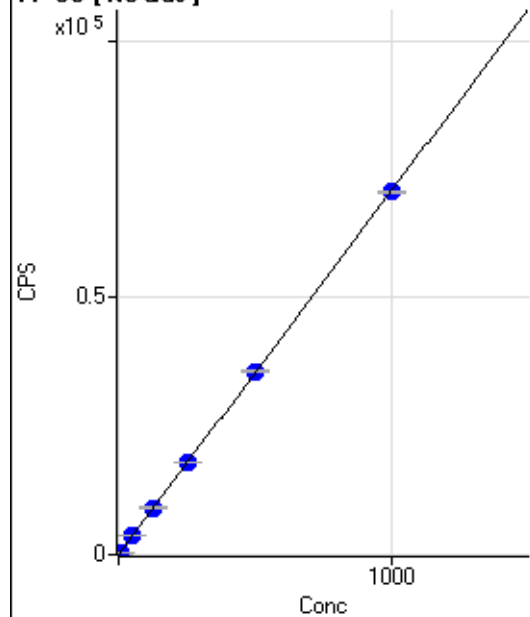
$$y = 3.6696E-004 * x + 5.0607E-006$$

$$R = 0.9999$$

$$DL = 0.03583$$

Weight: <None>

Min Conc: 0

77 Se [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	43.21		P	20.6
2	☐	0.500					
3	☐	5.000	5.177	409.48		P	3.3
4	☐	50.000	51.170	3663.06		P	0.5
5	☐	125.000	128.423	9128.16		P	1.7
6	☐	250.000	252.969	17938.83		P	1.0
7	☐	500.000	503.698	35675.90		P	0.4
8	☐	1000.000	996.922	70567.64		P	0.2
9	☐			67.49		P	19.4

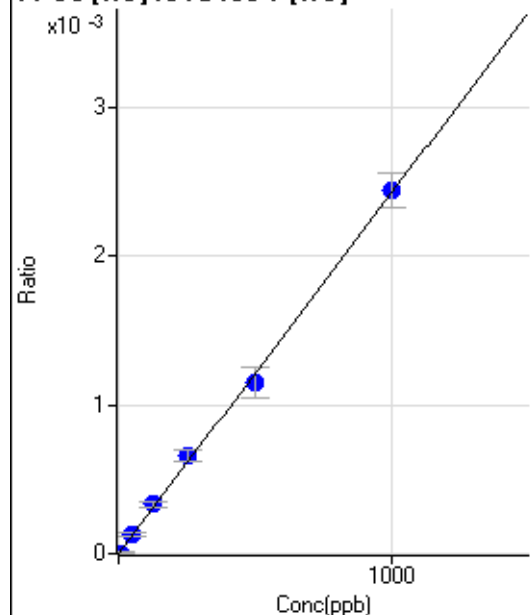
$$y = 70.7422 * x + 43.2100$$

$$R = 1.0000$$

$$DL = 0.3777$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.500					
3	☐	5.000	1.904	1.11	0.0000	P	173.
4	☐	50.000	53.318	31.11	0.0001	P	16.5
5	☐	125.000	136.497	76.67	0.0003	P	12.2
6	☐	250.000	272.957	155.56	0.0007	P	11.3
7	☐	500.000	474.516	257.79	0.0012	P	19.0
8	☐	1000.000	1005.415	555.58	0.0024	P	9.6
9	☐			1.11	0.0000	P	173.

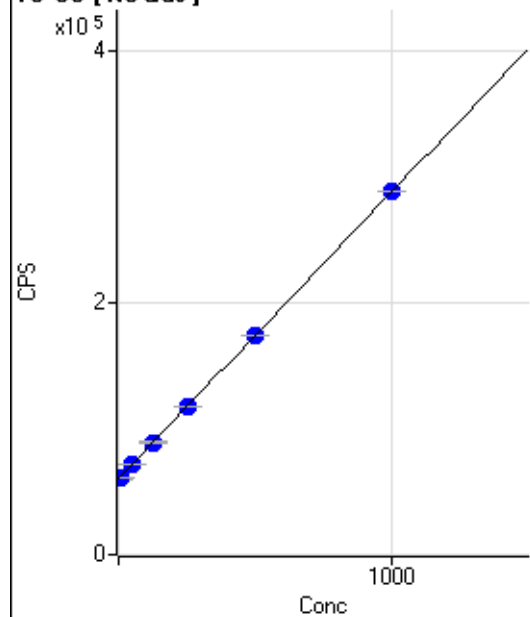
$$y = 2.4236E-006 * x + 0.0000E+000$$

$$R = 0.9992$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

78 Se [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	60495.34		P	1.2
2	☐	0.500					
3	☐	5.000	4.650	61553.06		P	0.6
4	☐	50.000	50.642	72014.20		P	0.4
5	☐	125.000	125.725	89092.57		P	0.7
6	☐	250.000	249.899	117336.75		P	0.7
7	☐	500.000	500.222	174274.85		P	0.3
8	☐	1000.000	999.793	287906.26		P	0.2
9	☐			57161.92		P	0.4

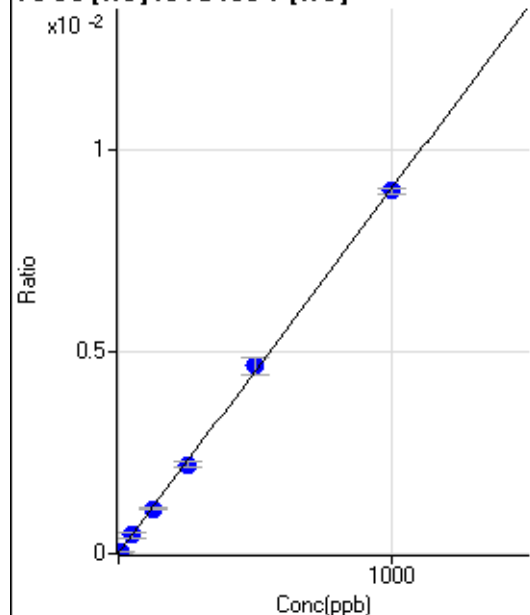
$$y = 227.4580 * x + 60495.3367$$

$$R = 1.0000$$

$$DL = 9.861$$

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	3.08	0.0000	P	35.0
2	☐	0.500					
3	☐	5.000	4.529	12.96	0.0001	P	50.9
4	☐	50.000	48.918	109.26	0.0005	P	30.4
5	☐	125.000	121.856	257.41	0.0011	P	2.7
6	☐	250.000	243.396	518.53	0.0022	P	5.3
7	☐	500.000	515.655	1045.11	0.0047	P	9.2
8	☐	1000.000	994.273	2044.62	0.0090	P	1.4
9	☐			1.85	0.0000	P	1.6

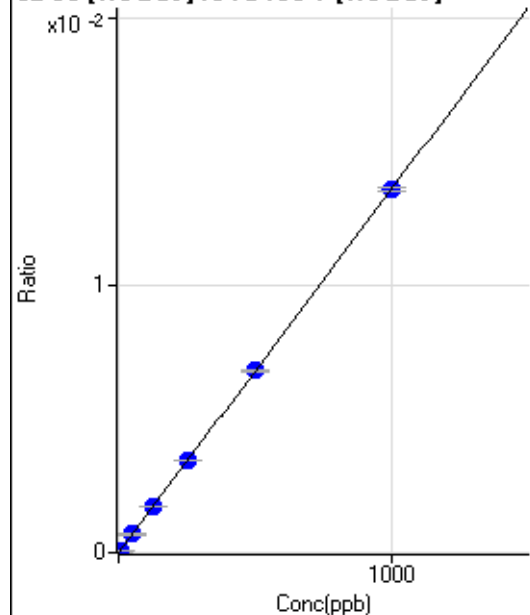
$$y = 9.0068\text{E-}006 * x + 1.2739\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.484$$

Weight: <None>

Min Conc: 0

82 Se [NoGas] ISTD:89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.47	0.0000	P	254.
2	☐	0.500					
3	☐	5.000	4.722	450.59	0.0001	P	13.2
4	☐	50.000	50.895	4702.65	0.0007	P	3.5
5	☐	125.000	128.567	11985.25	0.0017	P	1.2
6	☐	250.000	254.381	23758.89	0.0035	P	0.4
7	☐	500.000	500.529	46672.72	0.0068	P	0.5
8	☐	1000.000	998.151	93263.89	0.0136	P	1.2
9	☐			101.19	0.0000	P	29.7

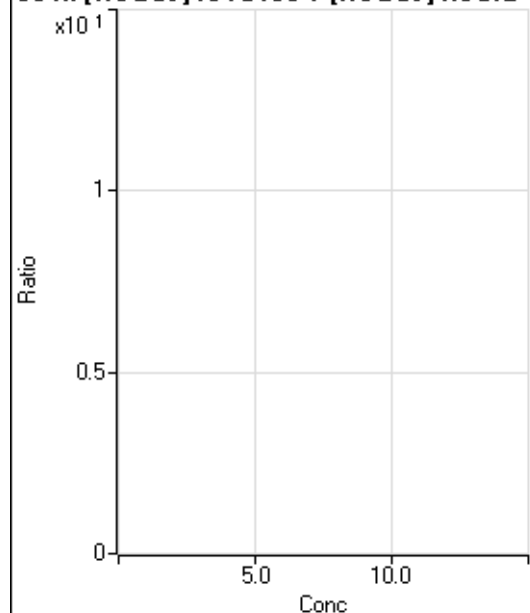
$$y = 1.3573\text{E-}005 * x + 2.4101\text{E-}006$$

$$R = 1.0000$$

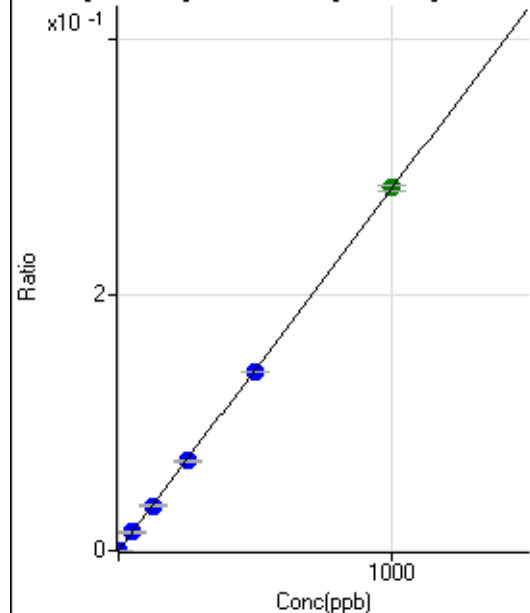
$$DL = 1.353$$

Weight: <None>

Min Conc: 0

83 Kr [NoGas] ISTD:89 Y [NoGas] No av_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			268.89	0.0000	P	11.7
2	☐						
3	☐			292.23	0.0000	P	18.3
4	☐			304.46	0.0000	P	12.7
5	☐			332.23	0.0000	P	3.4
6	☐			307.79	0.0000	P	20.0
7	☐			275.56	0.0000	P	15.9
8	☐			283.34	0.0000	P	3.9
9	☐			247.79	0.0000	P	17.7

86 Sr [NoGas] ISTD:89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	388.91	0.0001	P	6.8
2	☐	0.100					
3	☐	1.000	0.942	2189.17	0.0003	P	3.4
4	☐	50.000	50.589	97536.58	0.0144	P	1.8
5	☐	125.000	124.390	241814.60	0.0353	P	0.6
6	☐	250.000	247.655	482274.50	0.0701	P	1.2
7	☐	500.000	494.748	961848.96	0.1401	P	0.9
8	☐	1000.000	1003.259	1954387.93	0.2839	A	1.5
9	☐			63208.47	0.0097	P	0.7

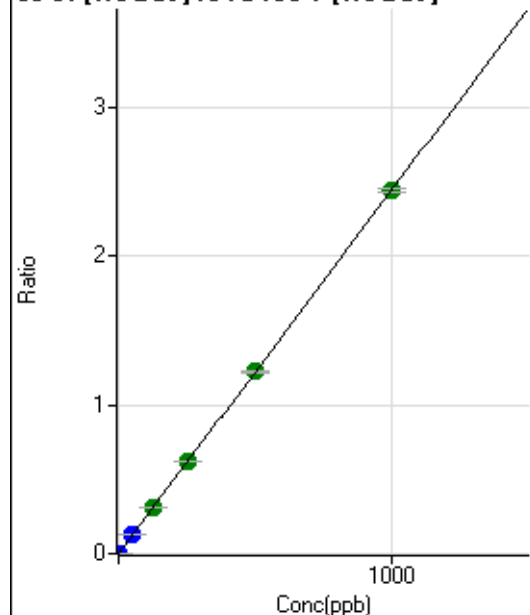
$$y = 2.8297E-004 * x + 5.7347E-005$$

$$R = 1.0000$$

$$DL = 0.04137$$

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	102.78	0.0000	P	37.6
2	☐	0.100					
3	☐	1.000	0.932	15478.89	0.0023	P	2.7
4	☐	50.000	51.188	847518.45	0.1249	P	2.4
5	☐	125.000	128.427	2149323.74	0.3134	A	0.6
6	☐	250.000	253.103	4246464.59	0.6175	A	1.1
7	☐	500.000	500.514	8386367.38	1.2212	A	1.3
8	☐	1000.000	998.479	16767793.60	2.4361	A	1.2
9	☐			549565.60	0.0841	P	0.8

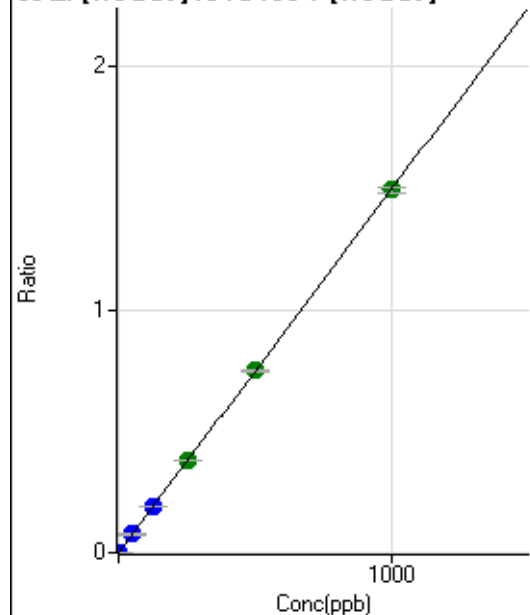
$$y = 0.0024 * x + 1.5068E-005$$

$$R = 1.0000$$

$$DL = 0.006964$$

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	430.58	0.0001	P	5.4
2	☐	0.100					
3	☐	1.000	0.920	9737.25	0.0014	P	4.5
4	☐	50.000	50.658	514784.71	0.0759	P	2.3
5	☐	125.000	125.410	1287571.25	0.1877	P	0.6
6	☐	250.000	253.889	2612886.84	0.3800	A	0.2
7	☐	500.000	501.077	5149475.81	0.7498	A	1.1
8	☐	1000.000	998.405	10283368.72	1.4940	A	1.4
9	☐			2922.67	0.0004	P	0.8

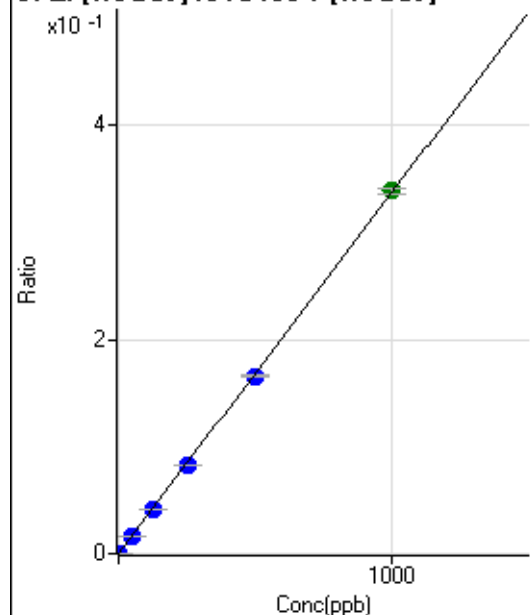
$$y = 0.0015 * x + 6.3367E-005$$

$$R = 1.0000$$

$$DL = 0.006844$$

Weight: <None>

Min Conc: 0

91 Zr [NoGas] ISTD:89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0000	P	49.1
2	☐	0.100					
3	☐	1.000	0.933	2197.50	0.0003	P	10.6
4	☐	50.000	49.961	114204.04	0.0168	P	2.1
5	☐	125.000	123.335	284841.89	0.0415	P	0.6
6	☐	250.000	245.794	569040.43	0.0828	P	0.4
7	☐	500.000	491.507	1136338.51	0.1655	P	0.8
8	☐	1000.000	1005.508	2329787.08	0.3385	A	1.4
9	☐			572.26	0.0001	P	20.6

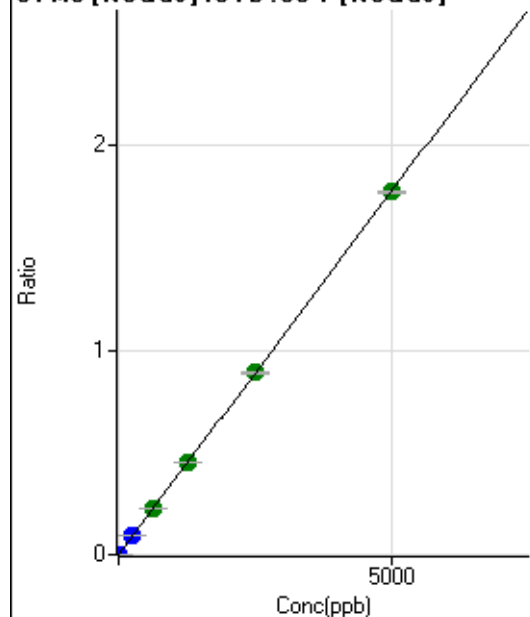
$$y = 3.3662\text{E-}004 * x + 1.1346\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.0496$$

Weight: <None>

Min Conc: 0

94 Mo [NoGas] ISTD:89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	194.45	0.0000	P	46.8
2	☐	0.500					
3	☐	5.000	4.643	11352.48	0.0017	P	1.7
4	☐	250.000	255.562	616393.87	0.0908	P	2.7
5	☐	625.000	640.158	1560538.62	0.2275	A	0.9
6	☐	1250.000	1271.809	3108213.50	0.4520	A	0.7
7	☐	2500.000	2501.883	6106010.08	0.8891	A	1.2
8	☐	5000.000	4991.434	12209501.92	1.7738	A	0.5
9	☐			8327.85	0.0013	P	1.7

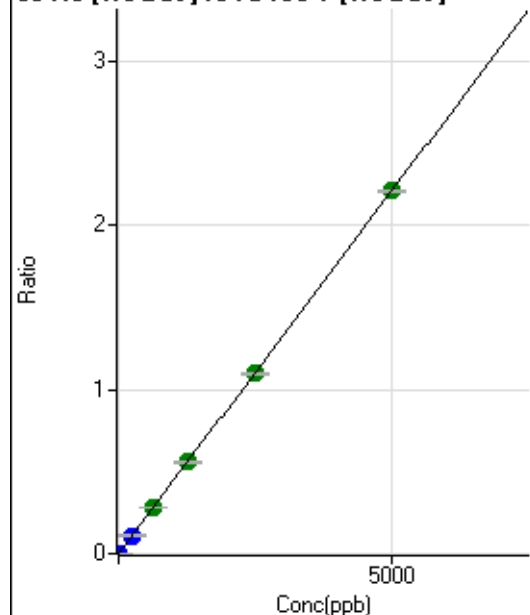
$$y = 3.5537\text{E-}004 * x + 2.8686\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.1132$$

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	50.00	0.0000	P	48.5
2	☐	0.500					
3	☐	5.000	4.543	13590.68	0.0020	P	4.8
4	☐	250.000	251.967	753846.97	0.1111	P	3.3
5	☐	625.000	638.714	1931906.82	0.2817	A	0.7
6	☐	1250.000	1260.278	3821632.46	0.5558	A	0.5
7	☐	2500.000	2481.442	7514644.61	1.0943	A	1.1
8	☐	5000.000	5004.898	15191229.68	2.2070	A	0.9
9	☐			13112.40	0.0020	P	1.1

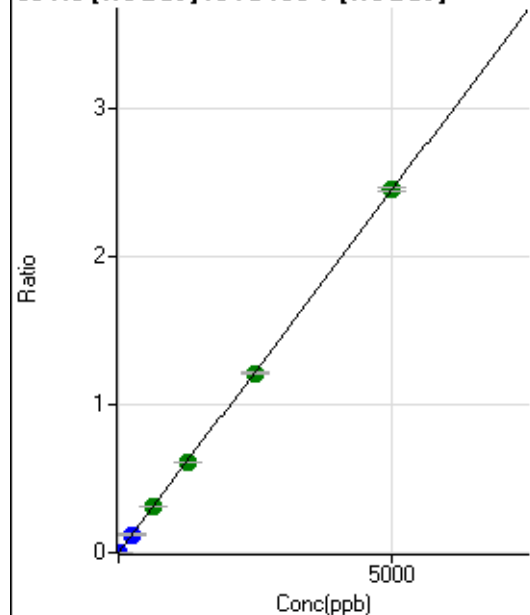
$$y = 4.4097\text{E-}004 * x + 7.3519\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.02428$$

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	113.90	0.0000	P	44.0
2	☐	0.500					
3	☐	5.000	4.631	15453.88	0.0023	P	5.1
4	☐	250.000	251.589	836903.82	0.1234	P	3.0
5	☐	625.000	633.635	2130740.85	0.3106	A	0.8
6	☐	1250.000	1251.106	4217733.82	0.6133	A	0.1
7	☐	2500.000	2480.484	8350912.43	1.2160	A	1.4
8	☐	5000.000	5008.323	16899522.77	2.4553	A	0.9
9	☐			16051.78	0.0025	P	3.0

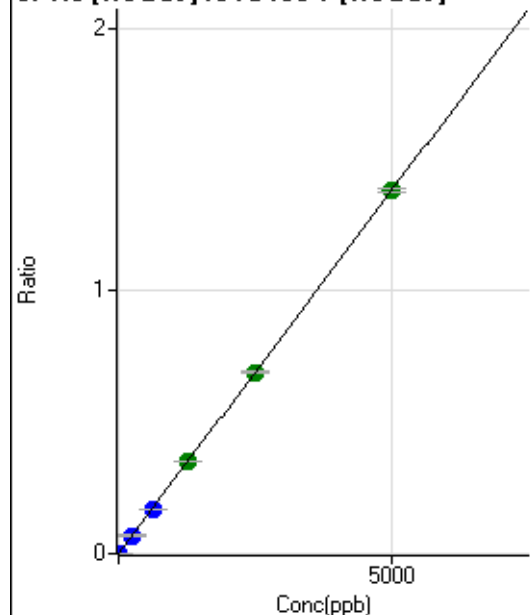
$$y = 4.9023\text{E-}004 * x + 1.6941\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.04562$$

Weight: <None>

Min Conc: 0

97 Mo [NoGas] ISTD : 89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	32.3
2	☐	0.500					
3	☐	5.000	4.496	8427.91	0.0012	P	3.5
4	☐	250.000	250.187	468619.39	0.0691	P	3.1
5	☐	625.000	619.828	1173674.90	0.1711	P	0.4
6	☐	1250.000	1270.225	2411355.98	0.3507	A	0.1
7	☐	2500.000	2495.118	4730494.55	0.6888	A	1.1
8	☐	5000.000	4998.022	9496819.14	1.3798	A	1.0
9	☐			8225.14	0.0013	P	3.4

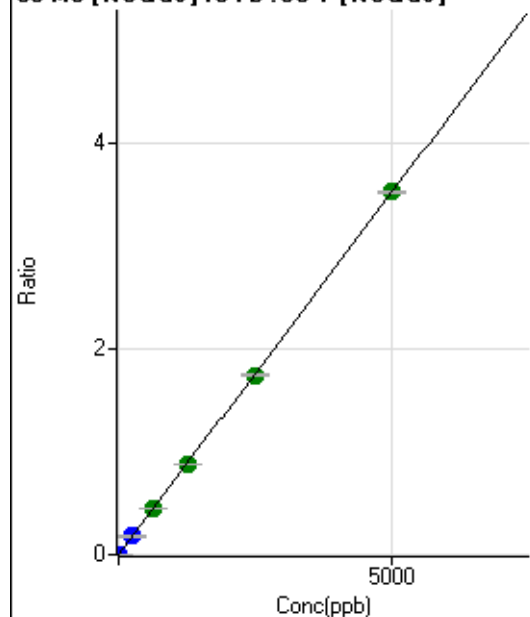
$$y = 2.7606E-004 * x + 5.7313E-006$$

$$R = 1.0000$$

$$DL = 0.02013$$

Weight: <None>

Min Conc: 0

98 Mo [NoGas] ISTD : 89 Y [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	11.2
2	☐	0.500					
3	☐	5.000	4.597	21963.13	0.0032	P	2.7
4	☐	250.000	253.546	1212764.34	0.1788	P	3.0
5	☐	625.000	631.247	3052395.75	0.4450	A	0.3
6	☐	1250.000	1246.866	6044536.90	0.8790	A	0.6
7	☐	2500.000	2477.658	11995579.35	1.7467	A	0.5
8	☐	5000.000	5010.997	24315572.76	3.5326	A	0.5
9	☐			21055.99	0.0032	P	2.9

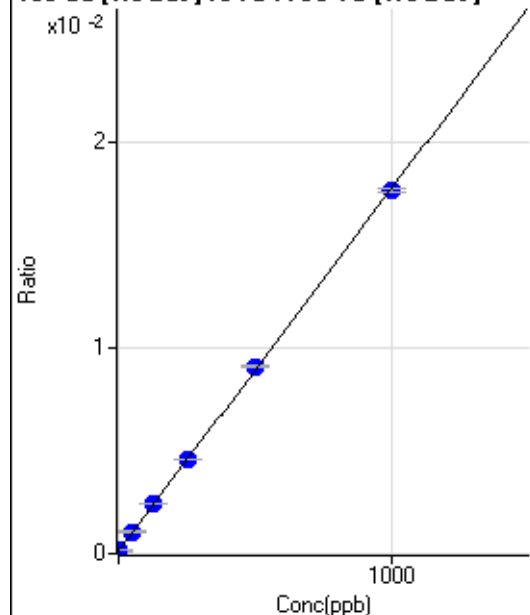
$$y = 7.0497E-004 * x + 8.2009E-006$$

$$R = 1.0000$$

$$DL = 0.003894$$

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	1097.32	0.0001	P	4.5
2	☐	0.100					
3	☐	1.000	1.718	1347.35	0.0002	P	2.3
4	☐	50.000	52.770	9178.51	0.0011	P	4.7
5	☐	125.000	132.173	21818.44	0.0025	P	1.5
6	☐	250.000	251.599	40896.27	0.0046	P	0.5
7	☐	500.000	509.339	81979.64	0.0091	P	1.0
8	☐	1000.000	993.895	160407.17	0.0177	P	1.2
9	☐			1269.57	0.0001	P	14.1

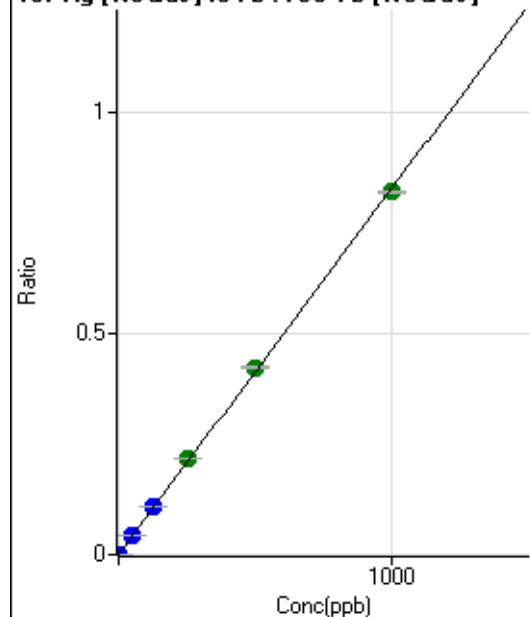
$$y = 1.7655E-005 * x + 1.2655E-004$$

$$R = 0.9999$$

$$DL = 0.9775$$

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	63.89	0.0000	P	19.9
2	☐	0.100					
3	☐	1.000	1.005	7199.47	0.0008	P	8.8
4	☐	50.000	53.431	383907.27	0.0443	P	2.0
5	☐	125.000	129.452	951448.15	0.1073	P	0.1
6	☐	250.000	260.518	1932510.68	0.2159	A	0.2
7	☐	500.000	510.136	3800277.99	0.4227	A	1.0
8	☐	1000.000	991.574	7457311.45	0.8216	A	0.8
9	☐			619.49	0.0001	P	3.5

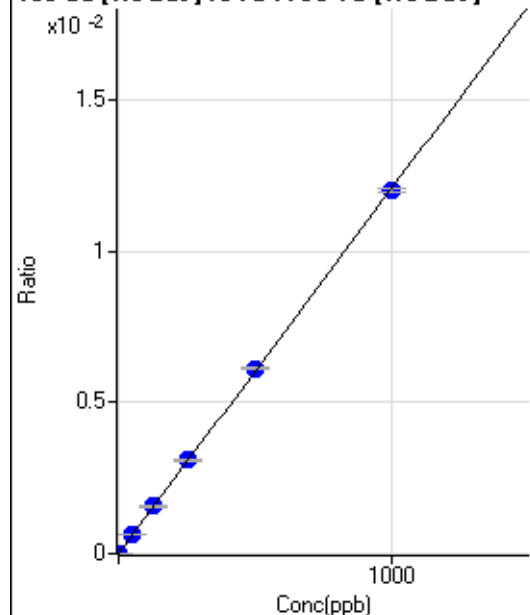
$$y = 8.2862E-004 * x + 7.3669E-006$$

$$R = 0.9999$$

$$DL = 0.005321$$

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	11.11	0.0000	P	22.8
2	☐	0.100					
3	☐	1.000	1.219	137.50	0.0000	P	1.8
4	☐	50.000	53.892	5656.89	0.0007	P	3.4
5	☐	125.000	129.131	13853.17	0.0016	P	0.9
6	☐	250.000	257.404	27859.67	0.0031	P	1.6
7	☐	500.000	506.855	55081.47	0.0061	P	1.1
8	☐	1000.000	994.010	109044.59	0.0120	P	1.1
9	☐			30.56	0.0000	P	47.6

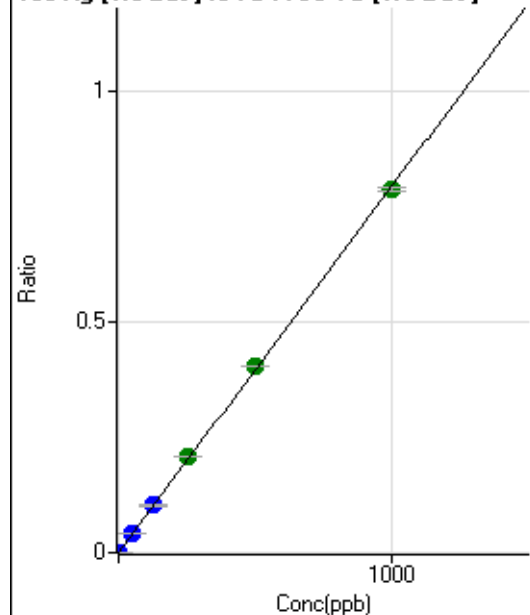
$$y = 1.2086\text{E-}005 * x + 1.2830\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.07277$$

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	36.11	0.0000	P	57.3
2	☐	0.100					
3	☐	1.000	1.001	6857.57	0.0008	P	4.5
4	☐	50.000	53.415	367931.58	0.0424	P	2.3
5	☐	125.000	129.067	909490.27	0.1025	P	0.6
6	☐	250.000	262.290	1865399.54	0.2084	A	0.8
7	☐	500.000	510.040	3643049.08	0.4052	A	0.8
8	☐	1000.000	991.228	7147395.12	0.7875	A	1.1
9	☐			575.04	0.0001	P	20.2

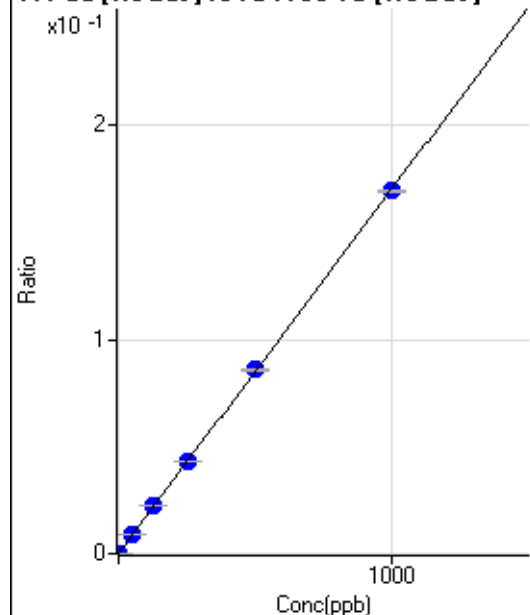
$$y = 7.9447\text{E-}004 * x + 4.1670\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.009017$$

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	768.68	0.0001	P	5.1
2	☐	0.100					
3	☐	1.000	1.071	2322.01	0.0003	P	4.4
4	☐	50.000	53.207	79104.04	0.0091	P	1.8
5	☐	125.000	129.390	195662.36	0.0221	P	0.5
6	☐	250.000	254.547	387735.09	0.0433	P	0.8
7	☐	500.000	504.406	770854.62	0.0857	P	0.7
8	☐	1000.000	995.951	1535793.35	0.1692	P	0.8
9	☐			1110.37	0.0001	P	11.0

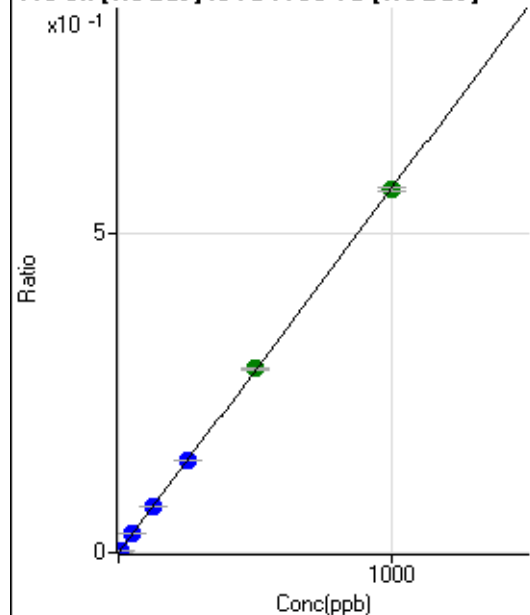
$$y = 1.6981\text{E-}004 * x + 8.8652\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.0805$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	883.41	0.0001	P	15.7
2	☐	0.500					
3	☐	5.000	4.696	23841.58	0.0028	P	1.9
4	☐	50.000	51.661	256084.63	0.0295	P	2.9
5	☐	125.000	128.375	649737.58	0.0733	P	1.1
6	☐	250.000	252.638	1289687.35	0.1441	P	0.8
7	☐	500.000	505.172	2588994.85	0.2880	A	0.9
8	☐	1000.000	996.251	5153606.41	0.5678	A	1.1
9	☐			7121.68	0.0008	P	4.2

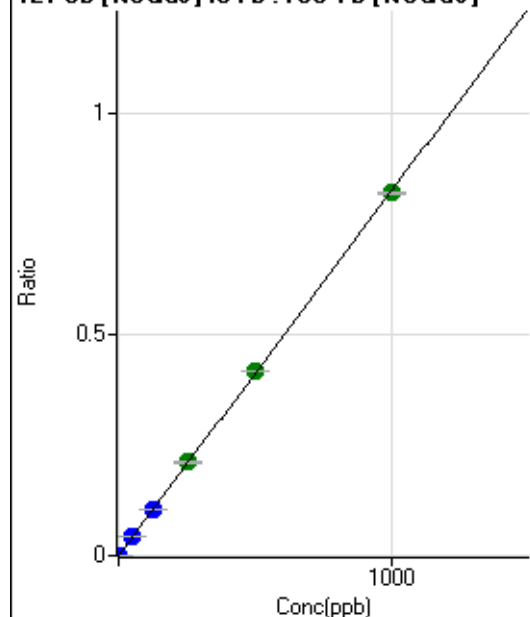
$$y = 5.6987\text{E-}004 * x + 1.0171\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.08396$$

Weight: <None>

Min Conc: 0

121 Sb [NoGas] ISTD : 159 Tb [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.23	0.0000	P	84.6
2	☐	0.200					
3	☐	2.000	1.894	13526.85	0.0016	P	4.4
4	☐	50.000	51.590	369642.62	0.0426	P	2.2
5	☐	125.000	126.885	929952.17	0.1049	P	0.2
6	☐	250.000	256.380	1896362.98	0.2118	A	1.3
7	☐	500.000	506.607	3763376.34	0.4186	A	0.8
8	☐	1000.000	994.787	7460281.94	0.8220	A	0.2
9	☐			9164.70	0.0010	P	2.6

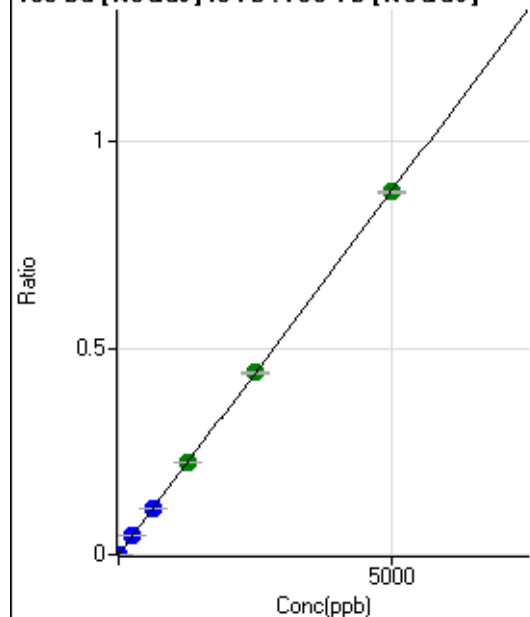
$$y = 8.2626E-004 * x + 1.1180E-005$$

$$R = 0.9999$$

$$DL = 0.03432$$

Weight: <None>

Min Conc: 0

135 Ba [NoGas] ISTD : 159 Tb [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	25.1
2	☐	1.000					
3	☐	10.000	9.365	14230.53	0.0017	P	3.7
4	☐	250.000	257.871	394134.87	0.0455	P	2.2
5	☐	625.000	630.813	986273.43	0.1112	P	0.1
6	☐	1250.000	1271.687	2006673.13	0.2242	A	1.0
7	☐	2500.000	2507.693	3973995.05	0.4420	A	0.9
8	☐	5000.000	4989.613	7982658.25	0.8795	A	0.7
9	☐			2408.67	0.0003	P	13.7

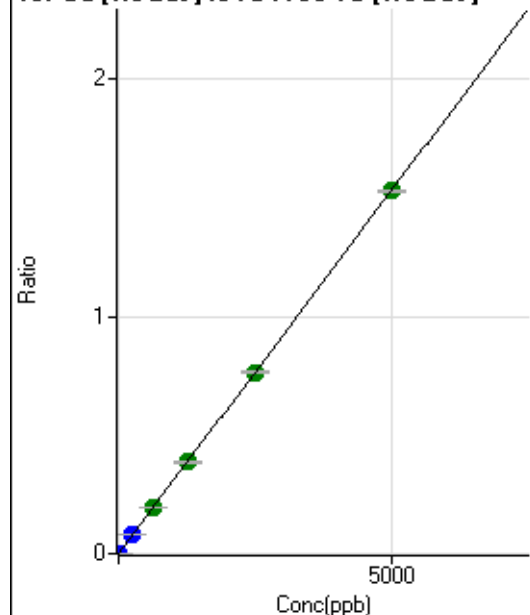
$$y = 1.7627E-004 * x + 7.7226E-006$$

$$R = 1.0000$$

$$DL = 0.03299$$

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	61.11	0.0000	P	42.9
2	☐	1.000					
3	☐	10.000	9.432	24868.84	0.0029	P	1.5
4	☐	250.000	259.146	688442.00	0.0794	P	2.1
5	☐	625.000	638.183	1734310.22	0.1955	A	1.3
6	☐	1250.000	1259.600	3454889.83	0.3859	A	0.6
7	☐	2500.000	2501.583	6890959.70	0.7665	A	1.2
8	☐	5000.000	4994.705	13889762.64	1.5304	A	0.7
9	☐			3898.00	0.0004	P	6.4

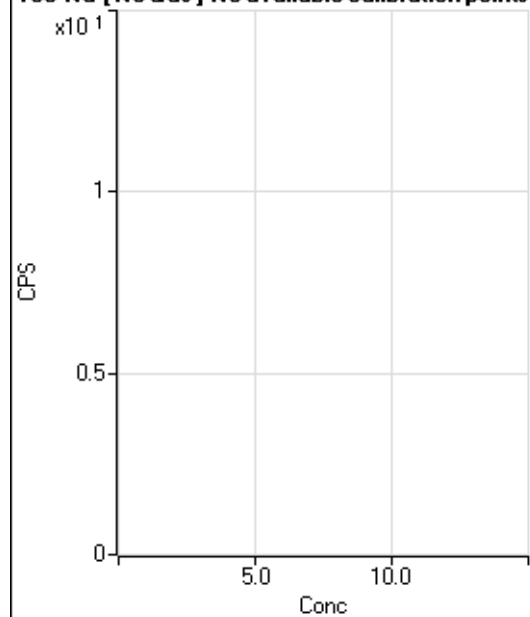
$$y = 3.0640E-004 * x + 7.0337E-006$$

$$R = 1.0000$$

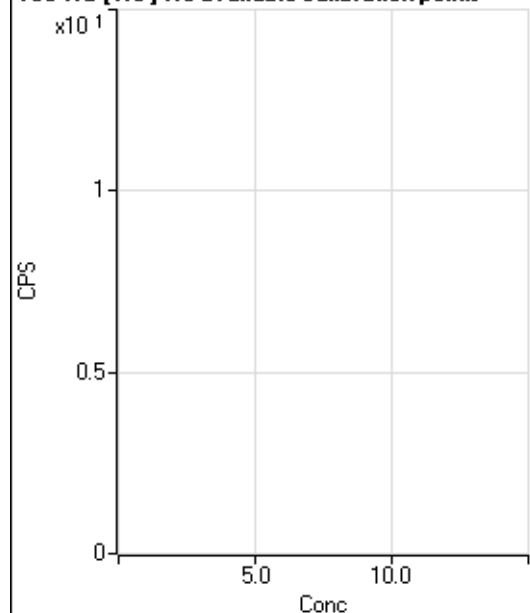
$$DL = 0.02953$$

Weight: <None>

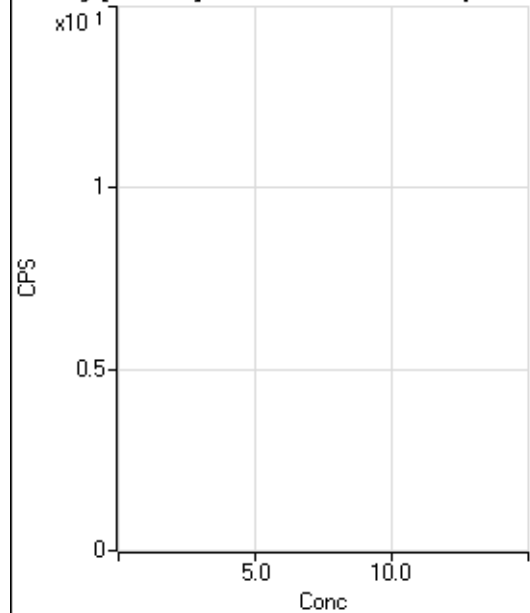
Min Conc: 0

150 Nd [No Gas] No available calibration points

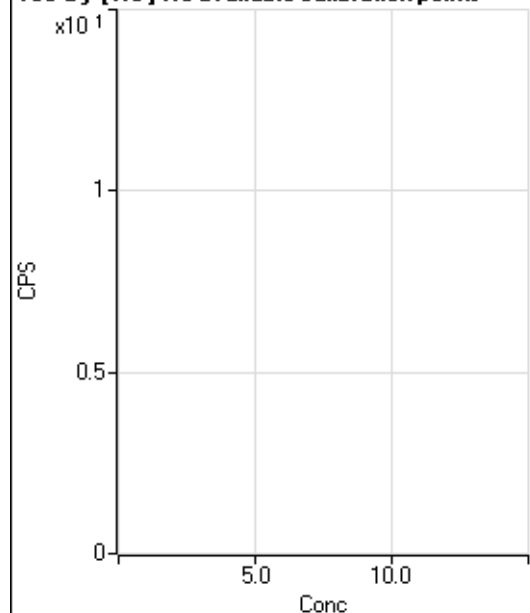
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐						
3	☐			8.89		P	43.3
4	☐			20.00		P	33.4
5	☐			46.67		P	14.3
6	☐			71.11		P	56.5
7	☐			184.45		P	7.5
8	☐			304.46		P	31.9
9	☐			60.00		P	11.1

150 Nd [He] No available calibration points

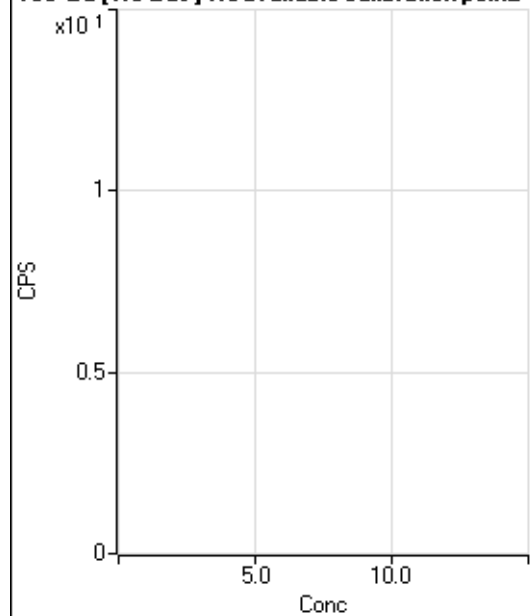
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			0.00		P	
4	☐			1.11		P	173.
5	☐			2.22		P	86.6
6	☐			3.33		P	173.
7	☐			2.22		P	86.6
8	☐			6.67		P	50.0
9	☐			7.78		P	65.5

156 Dy [No Gas] No available calibration points

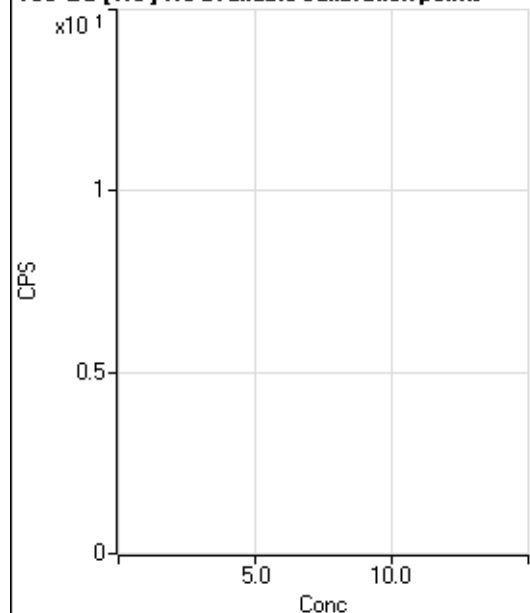
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.
2	☐						
3	☐			19.44		P	49.5
4	☐			13.89		P	69.3
5	☐			13.89		P	173.
6	☐			41.67		P	20.0
7	☐			63.89		P	61.6
8	☐			102.78		P	9.4
9	☐			69.45		P	30.2

156 Dy [He] No available calibration points

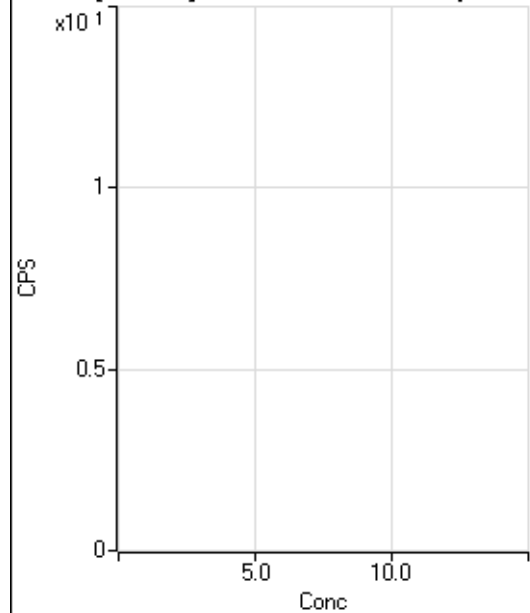
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			1.11		P	173.
4	☐			3.33		P	173.
5	☐			3.33		P	173.
6	☐			3.33		P	100.
7	☐			10.00		P	88.2
8	☐			7.78		P	24.7
9	☐			8.89		P	43.3

160 Gd [No Gas] No available calibration poin_

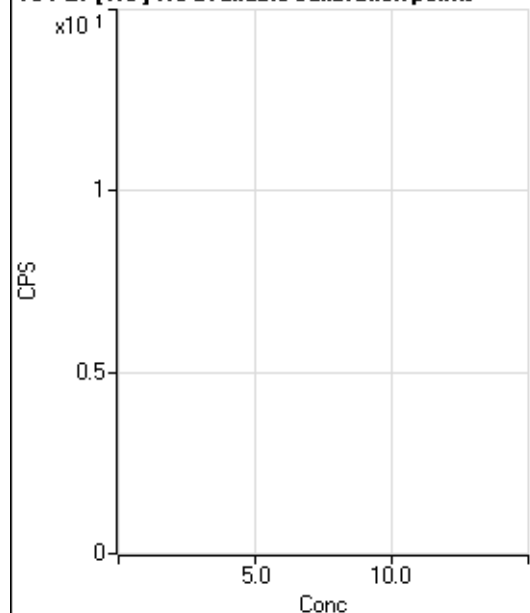
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	32.7
2	☐						
3	☐			58.34		P	24.7
4	☐			41.67		P	60.0
5	☐			44.45		P	10.8
6	☐			55.56		P	8.7
7	☐			61.12		P	34.3
8	☐			52.78		P	18.2
9	☐			66.67		P	54.5

160 Gd [He] No available calibration points

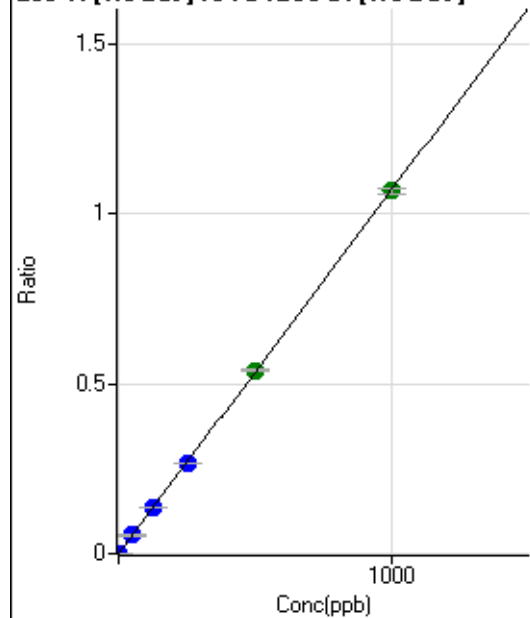
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐						
3	☐			5.56		P	91.6
4	☐			2.22		P	86.6
5	☐			7.78		P	49.5
6	☐			4.44		P	114.
7	☐			7.78		P	99.0
8	☐			12.22		P	56.8
9	☐			18.89		P	44.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	48.2
2	☐						
3	☐			47.22		P	27.0
4	☐			27.78		P	17.3
5	☐			44.45		P	28.7
6	☐			36.11		P	26.7
7	☐			55.56		P	31.2
8	☐			44.45		P	39.0
9	☐			44.45		P	28.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐						
3	☐			2.22		P	86.6
4	☐			3.33		P	100.
5	☐			10.00		P	57.7
6	☐			5.55		P	69.3
7	☐			6.67		P	86.6
8	☐			4.44		P	43.4
9	☐			7.78		P	49.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	116.67	0.0000	P	16.3
2	☐	0.100					
3	☐	1.000	0.957	5707.12	0.0010	P	5.1
4	☐	50.000	50.545	300077.48	0.0541	P	1.6
5	☐	125.000	125.340	754125.50	0.1340	P	0.4
6	☐	250.000	248.644	1523601.58	0.2659	P	0.7
7	☐	500.000	504.923	3078862.83	0.5399	A	0.4
8	☐	1000.000	997.808	6098114.85	1.0670	A	1.4
9	☐			3144.99	0.0006	P	5.4

$$y = 0.0011 * x + 2.0639E-005$$

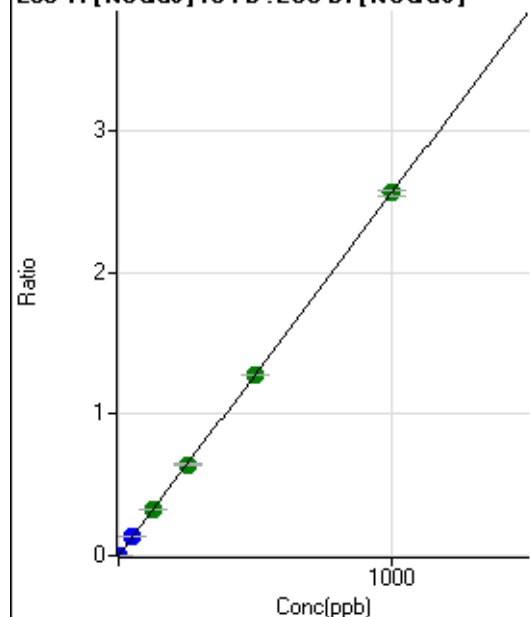
$$R = 1.0000$$

$$DL = 0.009436$$

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	308.35	0.0001	P	16.4
2	☐	0.100					
3	☐	1.000	0.938	13418.79	0.0025	P	6.6
4	☐	50.000	50.993	724353.00	0.1305	P	1.7
5	☐	125.000	127.130	1830101.04	0.3253	A	0.9
6	☐	250.000	251.790	3691611.76	0.6442	A	1.1
7	☐	500.000	497.116	7252714.31	1.2719	A	0.5
8	☐	1000.000	1000.678	14632505.54	2.5602	A	1.3
9	☐			7402.50	0.0014	P	2.1

$$y = 0.0026 * x + 5.4886E-005$$

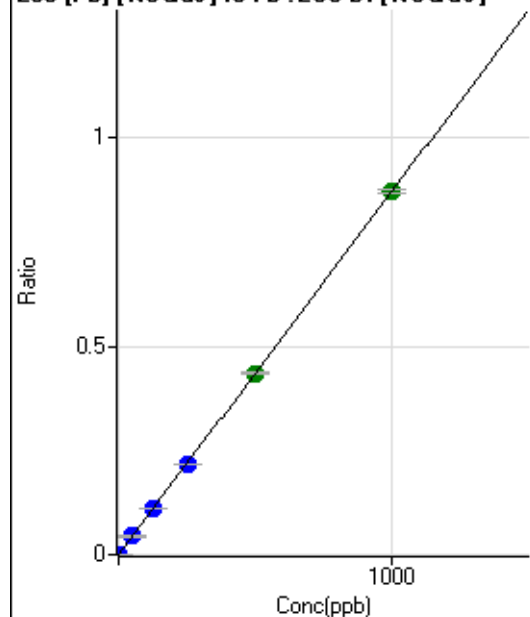
$$R = 1.0000$$

$$DL = 0.01054$$

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	0.0000	P	10.7
2	☐	0.100					
3	☐	1.000	0.969	4849.23	0.0009	P	8.5
4	☐	50.000	50.757	245261.12	0.0442	P	2.2
5	☐	125.000	125.796	615829.02	0.1095	P	1.0
6	☐	250.000	248.832	1240500.77	0.2165	P	0.5
7	☐	500.000	500.154	2481081.86	0.4351	A	0.5
8	☐	1000.000	1000.077	4972237.38	0.8699	A	0.9
9	☐			9272.20	0.0017	P	4.0

$$y = 8.6982E-004 * x + 4.4124E-005$$

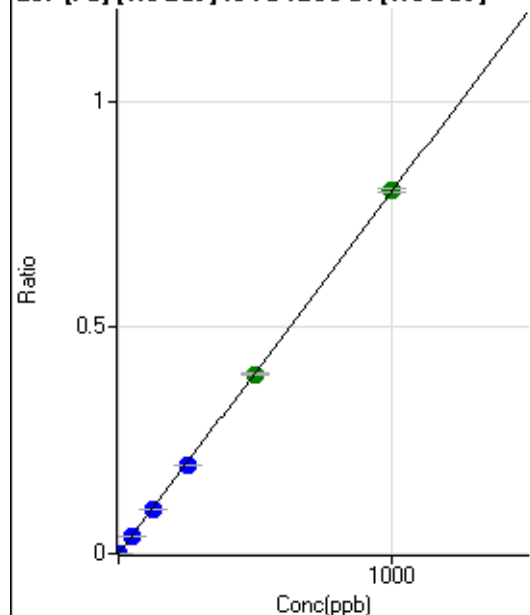
$$R = 1.0000$$

$$DL = 0.01623$$

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	220.38	0.0000	P	6.6
2	☐	0.100					
3	☐	1.000	0.920	4237.87	0.0008	P	5.2
4	☐	50.000	49.925	221686.79	0.0399	P	0.8
5	☐	125.000	123.565	555814.70	0.0988	P	0.4
6	☐	250.000	244.000	1117671.87	0.1950	P	0.5
7	☐	500.000	496.645	2263654.59	0.3970	A	0.7
8	☐	1000.000	1003.361	4583492.98	0.8019	A	1.2
9	☐			7960.12	0.0015	P	4.4

$$y = 7.9922\text{E-}004 * x + 3.9155\text{E-}005$$

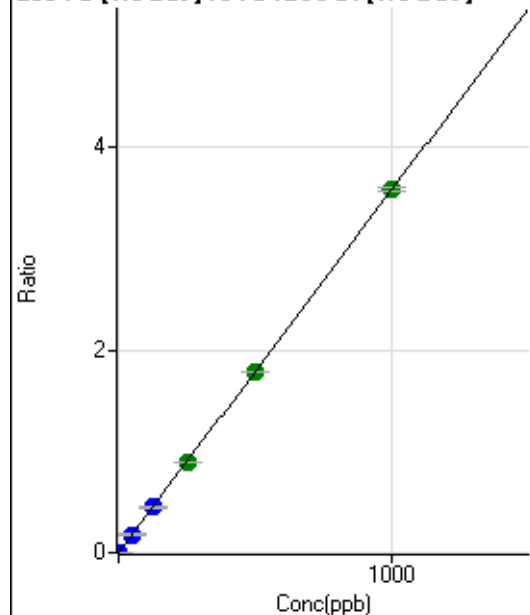
$$R = 1.0000$$

$$DL = 0.009695$$

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	888.93	0.0002	P	3.1
2	☐	0.100					
3	☐	1.000	0.938	19211.82	0.0035	P	3.9
4	☐	50.000	50.162	996178.37	0.1795	P	1.3
5	☐	125.000	124.667	2508225.39	0.4458	P	0.9
6	☐	250.000	248.449	5090508.69	0.8884	A	0.2
7	☐	500.000	499.204	10177666.32	1.7848	A	0.4
8	☐	1000.000	1000.819	20450560.23	3.5781	A	1.1
9	☐			36425.16	0.0067	P	3.5

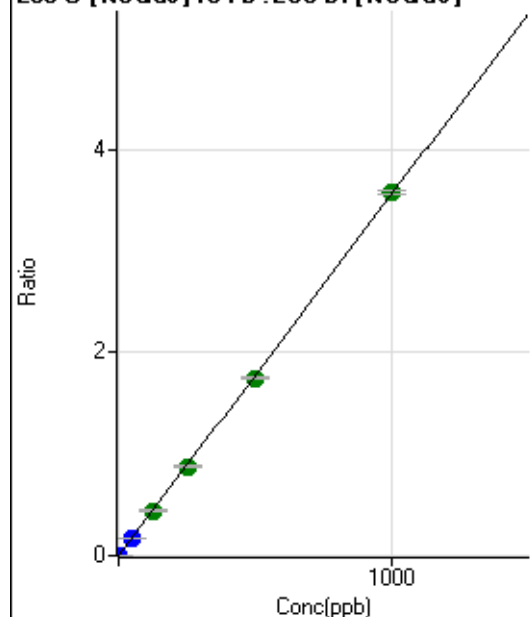
$$y = 0.0036 * x + 1.5770\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.004074$$

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	69.45	0.0000	P	14.9
2	☐	0.100					
3	☐	1.000	0.891	17401.77	0.0032	P	0.7
4	☐	50.000	49.361	973456.94	0.1754	P	1.9
5	☐	125.000	125.066	2500046.04	0.4444	A	1.2
6	☐	250.000	247.592	5041168.30	0.8797	A	0.3
7	☐	500.000	491.996	9968747.88	1.7481	A	0.6
8	☐	1000.000	1004.628	20402215.21	3.5696	A	1.0
9	☐			1400.15	0.0003	P	9.1

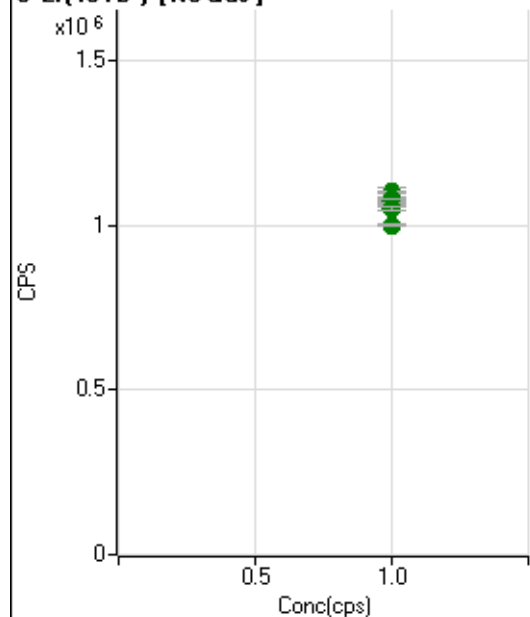
$$y = 0.0036 * x + 1.2340E-005$$

$$R = 0.9999$$

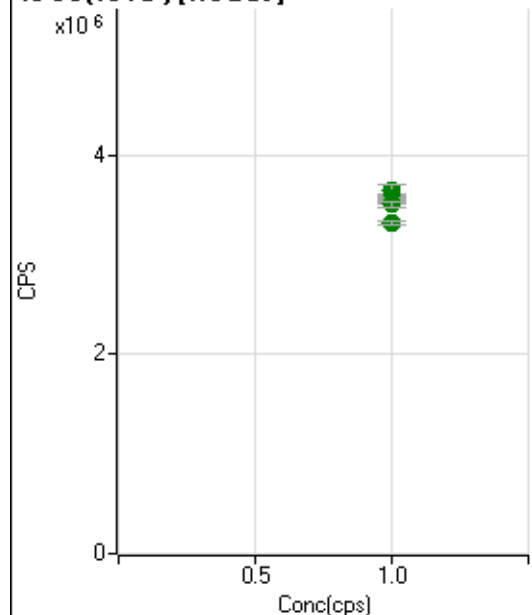
$$DL = 0.001554$$

Weight: <None>

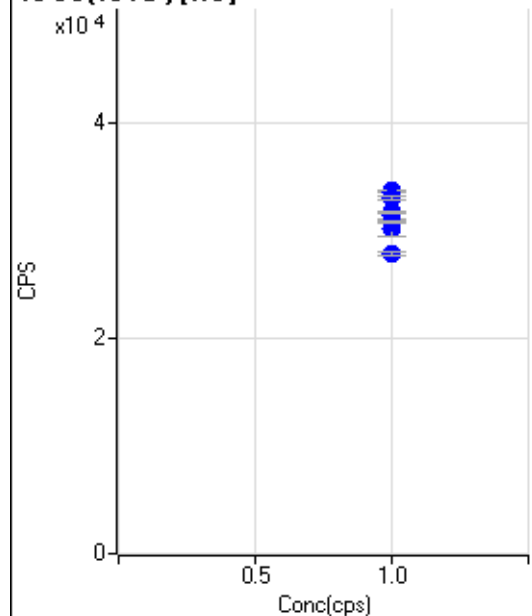
Min Conc: 0

6 Li (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1101614.96		A	2.5
2	☐	1.000					
3	☐	1.000		1079435.73		A	3.1
4	☐	1.000		1087814.23		A	2.2
5	☐	1.000		1098364.09		A	0.6
6	☐	1.000		1082500.24		A	0.7
7	☐	1.000		1074369.63		A	0.8
8	☐	1.000		1051903.34		A	1.3
9	☐	1.000		1000420.63		A	0.9

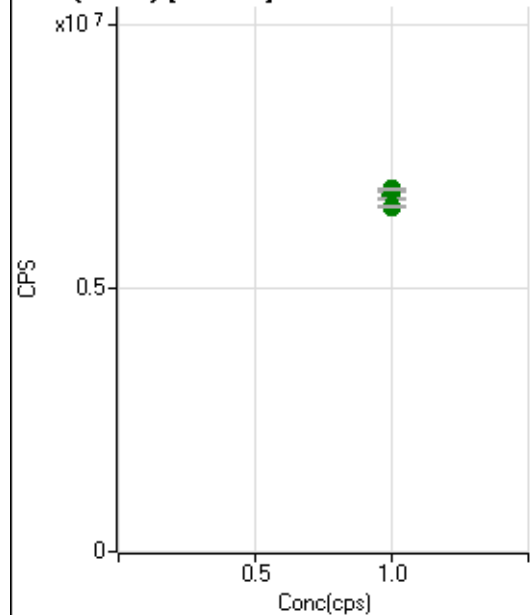
45 Sc(ISTD) [NoGas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3642469.27		A	3.0
2	☐	1.000					
3	☐	1.000		3559259.67		A	2.1
4	☐	1.000		3579735.67		A	1.9
5	☐	1.000		3579414.36		A	1.3
6	☐	1.000		3576969.74		A	0.2
7	☐	1.000		3512804.11		A	0.3
8	☐	1.000		3505934.11		A	1.6
9	☐	1.000		3317234.08		A	1.0

45 Sc(ISTD) [He]

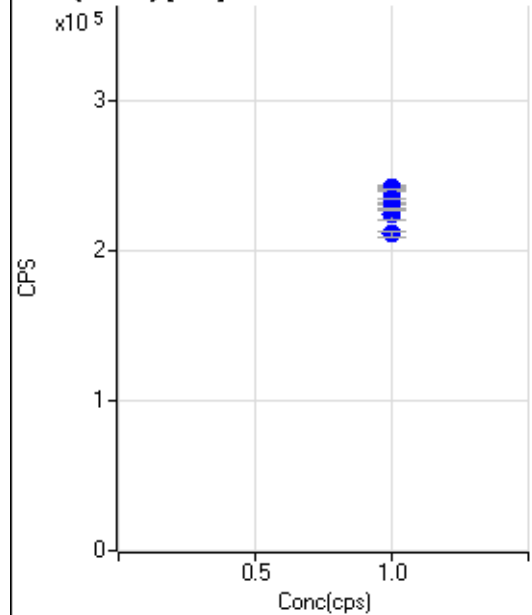
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		33721.63		P	0.9
2	☐	1.000					
3	☐	1.000		33540.12		P	1.9
4	☐	1.000		33030.09		P	0.9
5	☐	1.000		31404.14		P	2.5
6	☐	1.000		31739.31		P	0.2
7	☐	1.000		30149.17		P	4.4
8	☐	1.000		30769.38		P	0.6
9	☐	1.000		27896.75		P	1.7

89 Y (ISTD) [No Gas]

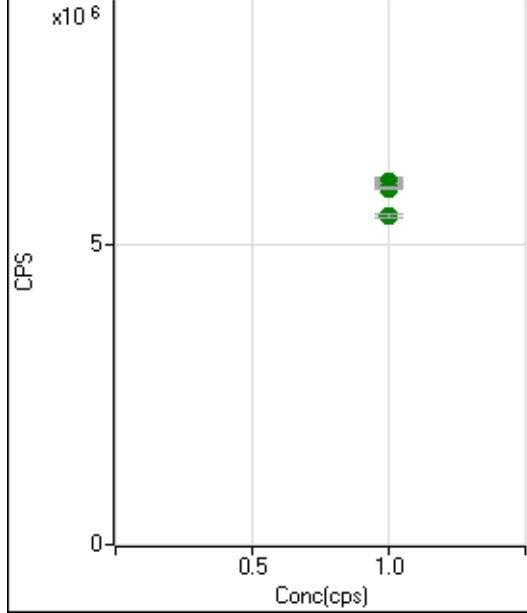


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6789106.15		A	3.4
2	☐	1.000					
3	☐	1.000		6762452.05		A	2.2
4	☐	1.000		6788274.48		A	2.7
5	☐	1.000		6859010.18		A	0.3
6	☐	1.000		6876567.12		A	0.5
7	☐	1.000		6867803.23		A	0.9
8	☐	1.000		6883301.98		A	0.7
9	☐	1.000		6537198.72		A	0.7

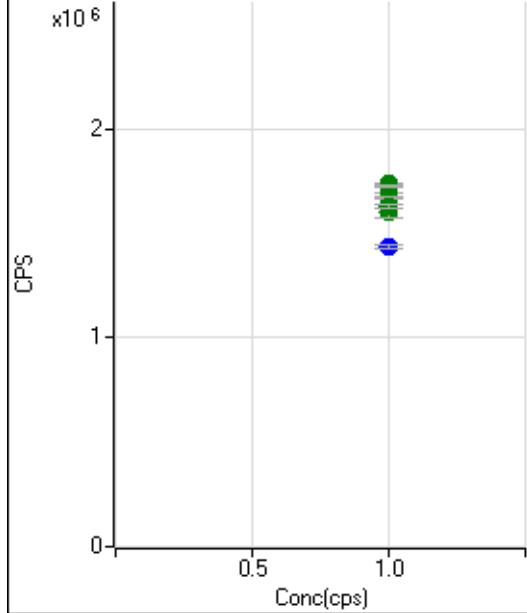
89 Y (ISTD) [He]



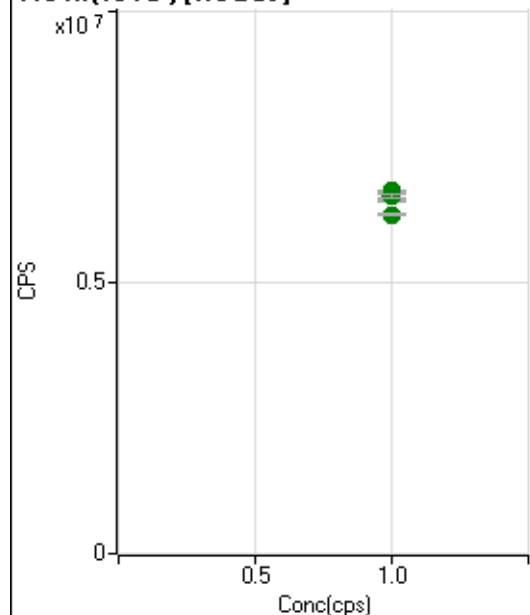
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		242310.05		P	1.0
2	☐	1.000					
3	☐	1.000		241685.33		P	0.6
4	☐	1.000		240810.28		P	0.4
5	☐	1.000		231881.30		P	0.8
6	☐	1.000		235191.18		P	0.3
7	☐	1.000		224790.52		P	3.8
8	☐	1.000		228002.88		P	0.6
9	☐	1.000		211411.44		P	1.6

103 Rh(ISTD) [NoGas]

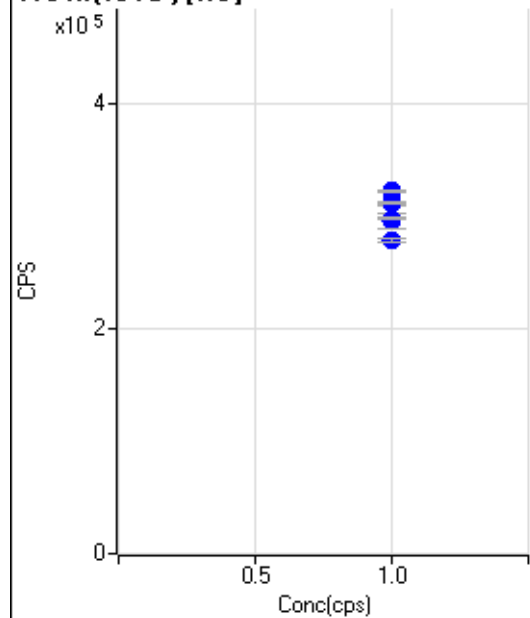
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6062786.25		A	2.2
2	☐	1.000					
3	☐	1.000		6062799.31		A	2.0
4	☐	1.000		6052225.66		A	2.3
5	☐	1.000		6058394.45		A	0.4
6	☐	1.000		6051778.65		A	0.3
7	☐	1.000		6026350.44		A	1.0
8	☐	1.000		5957912.33		A	1.0
9	☐	1.000		5498095.22		A	0.8

103 Rh(ISTD) [He]

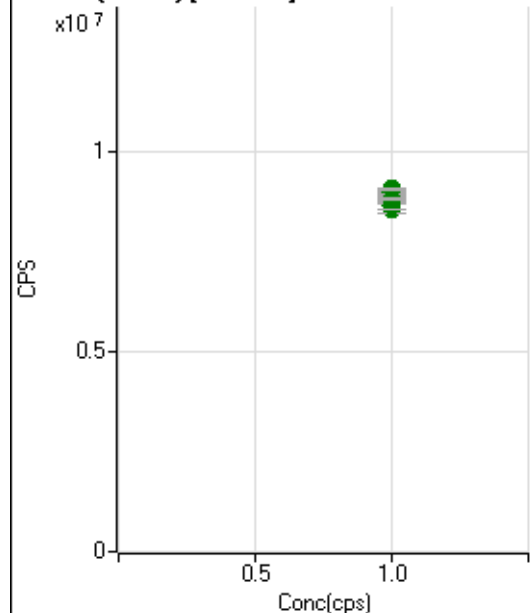
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1736867.51		A	0.6
2	☐	1.000					
3	☐	1.000		1732715.31		A	0.3
4	☐	1.000		1724385.87		A	0.3
5	☐	1.000		1679181.55		A	1.8
6	☐	1.000		1672903.31		A	0.5
7	☐	1.000		1606026.83		A	4.2
8	☐	1.000		1630187.63		A	1.0
9	☐	1.000		1437116.70		P	1.7

115 In(ISTD) [NoGas]

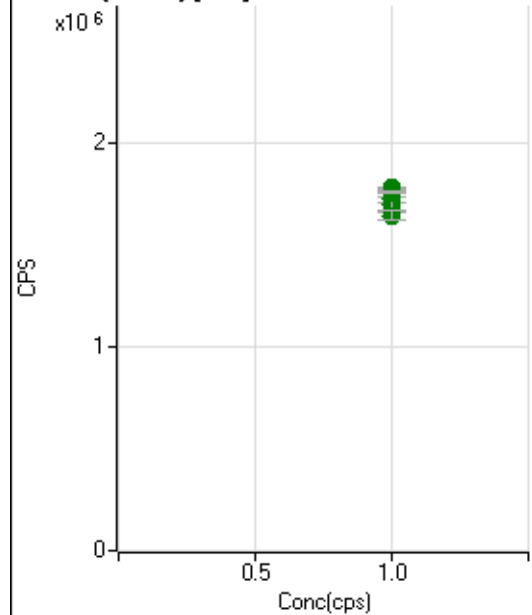
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6595011.12		A	2.9
2	☐	1.000					
3	☐	1.000		6586200.32		A	2.8
4	☐	1.000		6619874.20		A	2.3
5	☐	1.000		6680348.41		A	0.1
6	☐	1.000		6670145.18		A	0.3
7	☐	1.000		6635293.94		A	0.5
8	☐	1.000		6588697.90		A	1.3
9	☐	1.000		6244978.81		A	0.8

115 In(ISTD) [He]

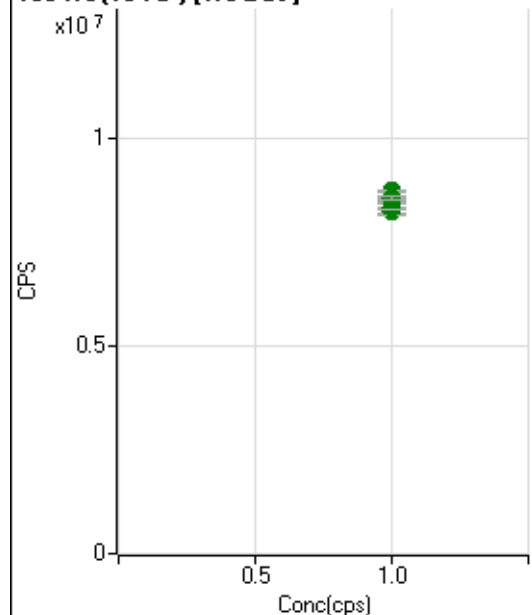
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		322535.97		P	0.4
2	☐	1.000					
3	☐	1.000		322879.36		P	0.7
4	☐	1.000		322845.14		P	0.3
5	☐	1.000		311012.21		P	0.9
6	☐	1.000		313038.80		P	0.6
7	☐	1.000		296714.25		P	4.5
8	☐	1.000		298438.96		P	0.3
9	☐	1.000		278597.49		P	1.5

159 Tb(ISTD) [NoGas]

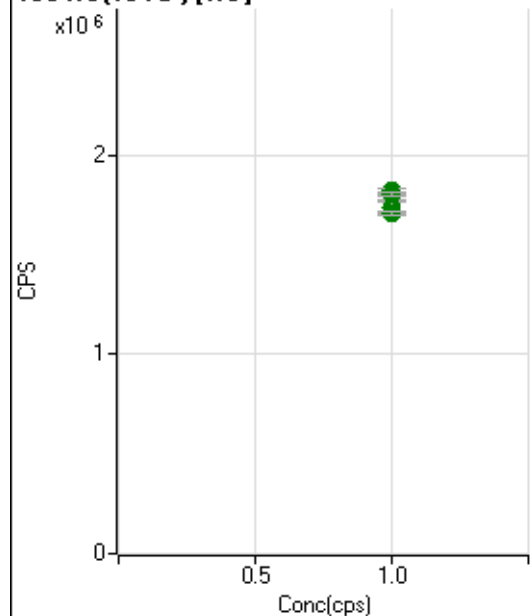
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8678967.09		A	3.2
2	☐	1.000					
3	☐	1.000		8586262.65		A	2.8
4	☐	1.000		8672200.15		A	2.2
5	☐	1.000		8869297.85		A	0.3
6	☐	1.000		8951921.60		A	0.5
7	☐	1.000		8990593.96		A	0.8
8	☐	1.000		9076268.27		A	0.5
9	☐	1.000		8826204.73		A	0.7

159 Tb(ISTD) [He]

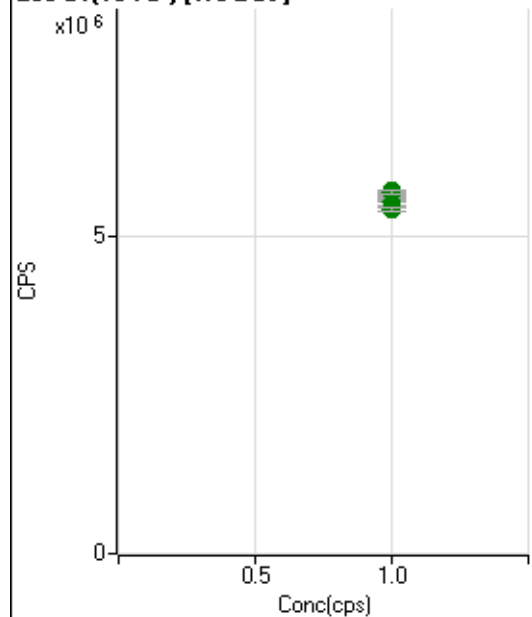
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1776370.91		A	0.8
2	☐	1.000					
3	☐	1.000		1766368.38		A	0.7
4	☐	1.000		1765733.53		A	0.8
5	☐	1.000		1721876.73		A	1.7
6	☐	1.000		1752208.50		A	0.6
7	☐	1.000		1693737.09		A	4.1
8	☐	1.000		1753039.49		A	0.5
9	☐	1.000		1642856.26		A	2.5

¹⁶⁵Ho(ISTD) [NoGas]

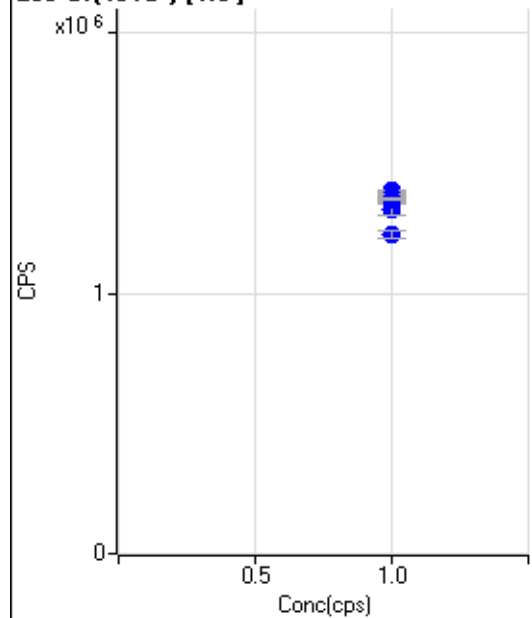
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8333128.92		A	3.1
2	☐	1.000					
3	☐	1.000		8253562.95		A	2.1
4	☐	1.000		8335807.39		A	1.6
5	☐	1.000		8528495.41		A	0.5
6	☐	1.000		8612239.51		A	0.4
7	☐	1.000		8730743.08		A	0.3
8	☐	1.000		8715701.24		A	0.8
9	☐	1.000		8557308.17		A	0.7

¹⁶⁵Ho(ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1821506.53		A	1.0
2	☐	1.000					
3	☐	1.000		1806753.01		A	0.5
4	☐	1.000		1800005.22		A	0.6
5	☐	1.000		1768942.42		A	0.3
6	☐	1.000		1800682.81		A	0.6
7	☐	1.000		1741175.13		A	3.8
8	☐	1.000		1804264.07		A	0.7
9	☐	1.000		1706683.98		A	0.9

209 Bi(ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5635400.96		A	2.9
2	☐	1.000					
3	☐	1.000		5474752.77		A	3.0
4	☐	1.000		5550958.18		A	1.5
5	☐	1.000		5626029.43		A	0.5
6	☐	1.000		5730302.21		A	0.4
7	☐	1.000		5702500.89		A	0.5
8	☐	1.000		5715867.34		A	0.8
9	☐	1.000		5427135.54		A	1.0

209 Bi(ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1393163.07		P	0.6
2	☐	1.000					
3	☐	1.000		1391562.53		P	0.6
4	☐	1.000		1390994.82		P	0.2
5	☐	1.000		1357237.43		P	0.9
6	☐	1.000		1375906.09		P	0.4
7	☐	1.000		1322679.01		P	3.7
8	☐	1.000		1361554.34		P	0.2
9	☐	1.000		1226347.41		P	2.0

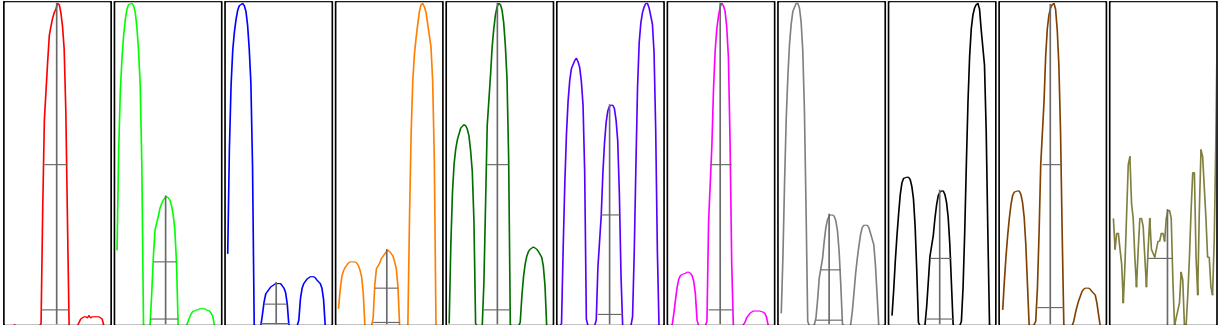
US EPA Tune Check Sample Report

Batch Folder D:\P8030918 MS.b
Report Comment
Instrument Name G8403A JP17141814

[No Gas]				
Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	1025	1.70	5.00	
24	10955	0.48	5.00	
25	1462	1.27	5.00	
26	1681	0.58	5.00	
59	11316	1.09	5.00	
113	2405	1.20	5.00	
115	21484	1.37	5.00	
206	5029	1.35	5.00	
207	4636	1.40	5.00	
208	10989	1.24	5.00	
220	1	14.06		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	999	1021	1039	1043	1024
24	10892	10968	10985	11019	10912
25	1441	1471	1456	1489	1453
26	1664	1685	1685	1683	1689
59	11147	11329	11376	11473	11257
113	2377	2421	2416	2439	2373
115	21221	21628	21767	21687	21116
206	4936	5037	5024	5128	5021
207	4554	4655	4664	4718	4588
208	10850	11038	11052	11156	10846
220	1	1	1	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	1643	9.00	8.9 - 9.1		0.786	0.900	
24	17595	23.95	23.9 - 24.1		0.786	0.900	
25	2334	24.95	24.9 - 25.1		0.786	0.900	
26	2713	25.95	25.9 - 26.1		0.773	0.900	
59	19012	58.95	58.9 - 59.1		0.777	0.900	
113	4437	113.00	112.9 - 113.1		0.734	0.900	
115	39219	115.00	114.9 - 115.1		0.731	0.900	
206	9213	205.95	205.9 - 206.1		0.759	0.900	
207	8381	206.95	206.9 - 207.1		0.775	0.900	
208	19934	207.95	207.9 - 208.1		0.770	0.900	
220	1	220.15	-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.3	V	Deflect	14.0	V
Extract 2	-235.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-100	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	1553	2.20	
89	812	2.90	
205	4277	1.41	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	1583	1549	1577	1558	1497
89	841	807	823	811	777
205	4363	4272	4290	4264	4195

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.3	V	Deflect	1.0	V
Extract 2	-235.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-100	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	5.0	mL/min	OctP RF	200	V			