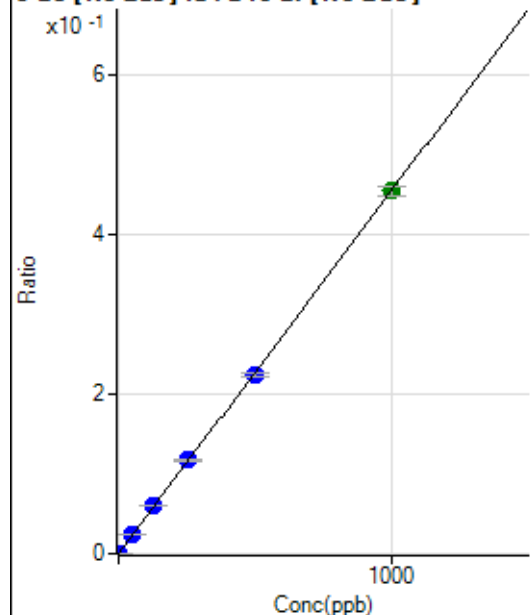


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8112421MS.b\
Analysis File: P8112421MS.batch.bin
DA Date-Time: 2021-11-27 01:11:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2021-11-24 12:12:53
2	007CALS.d	S02	2021-11-24 12:19:01
3	008CALS.d	S03	2021-11-24 12:22:07
4	009CALS.d	S04	2021-11-24 12:25:10
5	010CALS.d	S05	2021-11-24 12:28:16
6	011CALS.d	S06	2021-11-24 12:31:19
7	012CALS.d	S07	2021-11-24 12:34:25
8	013CALS.d	S08	2021-11-24 12:37:28

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	25.33	0.0000	P	33.6
2	☐	1.000	1.002	1418.46	0.0005	P	1.5
3	☐	50.000	53.728	74250.15	0.0245	P	2.3
4	☐	125.000	133.112	184211.36	0.0607	P	2.3
5	☐	250.000	257.780	361791.56	0.1175	P	1.5
6	☐	500.000	494.684	724103.38	0.2254	P	2.2
7	☐	1000.000	999.512	1422923.22	0.4555	A	2.9
8	☐			647.22	0.0002	P	21.4

$$y = 4.5571\text{E-}004 * x + 8.5353\text{E-}006$$

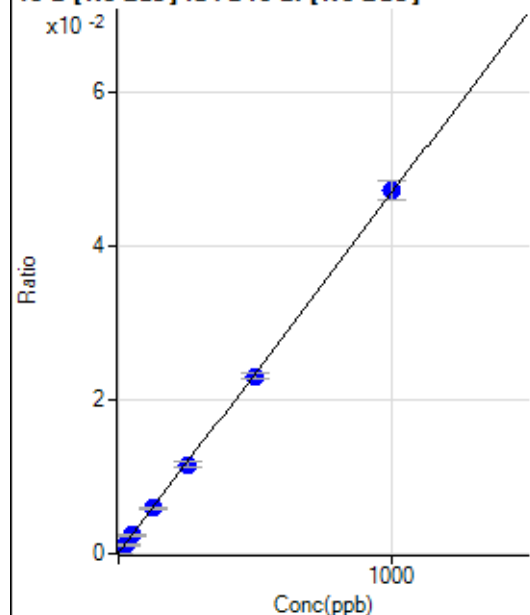
$$R = 0.9999$$

$$DL = 0.01887$$

$$BEC = 0.01873$$

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	156.64	0.0001	P	15.9
2	☐	25.000	23.171	3469.07	0.0011	P	5.3
3	☐	50.000	50.982	7401.10	0.0024	P	6.5
4	☐	125.000	125.616	18042.89	0.0059	P	5.3
5	☐	250.000	245.862	35647.55	0.0116	P	6.6
6	☐	500.000	490.846	74103.61	0.0231	P	3.1
7	☐	1000.000	1005.531	147377.93	0.0472	P	5.2
8	☐			19320.23	0.0066	P	9.3

$$y = 4.6859\text{E-}005 * x + 5.2683\text{E-}005$$

$$R = 0.9999$$

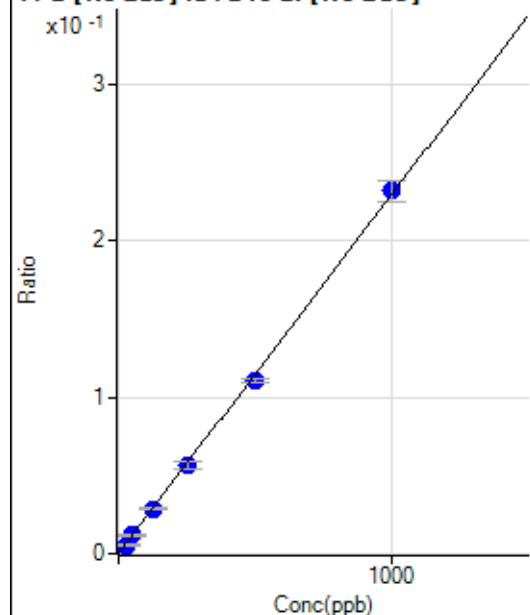
$$DL = 0.5357$$

$$BEC = 1.124$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	736.54	0.0002	P	3.4
2	☐	25.000	22.783	16672.23	0.0055	P	5.4
3	☐	50.000	50.476	35831.18	0.0118	P	6.4
4	☐	125.000	123.009	86453.55	0.0285	P	5.0
5	☐	250.000	245.117	173900.53	0.0565	P	7.5
6	☐	500.000	481.274	355505.52	0.1106	P	2.2
7	☐	1000.000	1010.864	724896.77	0.2321	P	5.5
8	☐			91815.30	0.0314	P	9.4

$$y = 2.2932E-004 * x + 2.4774E-004$$

R = 0.9997

DL = 0.1101

BEC = 1.08

Weight: <None>

Min Conc: 0

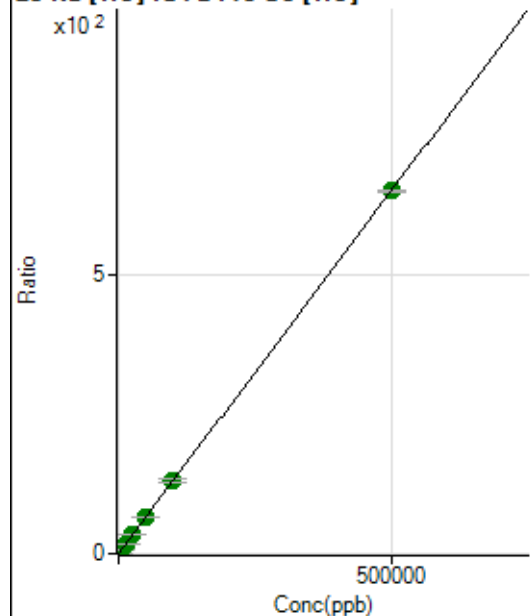
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4547549.84		A	1.1
2	☐			4621994.72		A	0.8
3	☐			5339581.80		A	1.7
4	☐			5458599.86		A	1.5
5	☐			5695358.90		A	4.0
6	☐			6079166.72		A	2.8
7	☐			6941150.85		A	3.0
8	☐			6021123.18		A	2.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			45978.23		P	1.0
2	☐			46557.67		P	0.3
3	☐			55865.11		P	2.0
4	☐			55090.43		P	3.6
5	☐			58601.04		P	1.3
6	☐			63276.13		P	1.7
7	☐			73439.84		P	1.1
8	☐			66253.01		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11379.71	0.0520	P	5.2
2	☐	500.000	466.978	145062.16	0.6594	P	1.0
3	☐	5000.000	5410.677	1544293.88	7.0900	A	6.3
4	☐	12500.000	12767.527	3610430.16	16.6595	A	1.3
5	☐	25000.000	25506.337	7103333.67	33.2296	A	2.3
6	☐	50000.000	50780.733	13834453.61	66.1055	A	0.8
7	☐	100000.00	101270.51	26445932.36	131.7806	A	5.8
8	☐	500000.00	499631.74	130138493.1	649.9531	A	0.7

$$y = 0.0013 * x + 0.0520$$

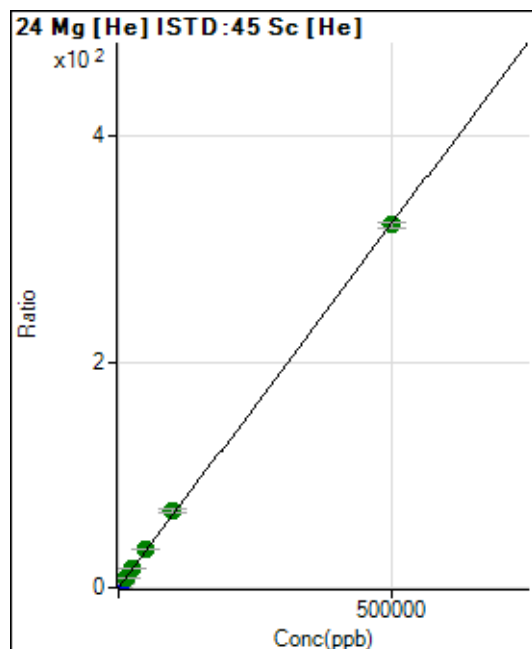
$$R = 1.0000$$

$$DL = 6.192$$

$$BEC = 39.96$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	697.26	0.0032	P	1.6
2	☐	500.000	493.868	70741.75	0.3216	P	2.0
3	☐	5000.000	5628.762	790956.93	3.6318	P	6.6
4	☐	12500.000	13416.881	1875160.02	8.6524	A	1.0
5	☐	25000.000	26468.046	3647114.71	17.0660	A	3.2
6	☐	50000.000	52933.524	7141998.42	34.1271	A	1.2
7	☐	100000.00	105416.60	13641243.54	67.9606	A	5.1
8	☐	500000.00	498520.72	64345766.72	321.3772	A	1.8

$$y = 6.4466\text{E-}004 * x + 0.0032$$

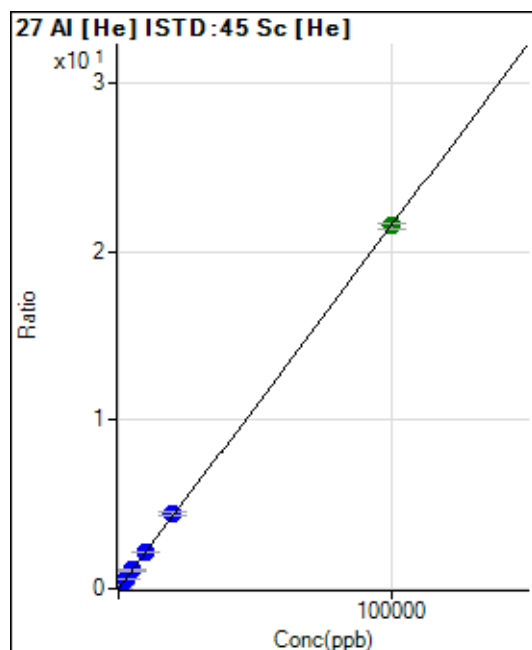
R = 0.9999

DL = 0.2343

BEC = 4.939

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	131.24	0.0006	P	6.7
2	☐	20.000	18.518	1009.49	0.0046	P	0.8
3	☐	1000.000	1079.621	50778.17	0.2332	P	7.0
4	☐	2500.000	2590.739	121084.10	0.5587	P	0.8
5	☐	5000.000	5091.388	234549.35	1.0975	P	2.9
6	☐	10000.000	10225.641	461155.61	2.2036	P	0.9
7	☐	20000.000	20517.922	887301.62	4.4209	P	5.4
8	☐	100000.00	99866.218	4307955.37	21.5156	A	1.3

$$y = 2.1544\text{E-}004 * x + 5.9893\text{E-}004$$

R = 1.0000

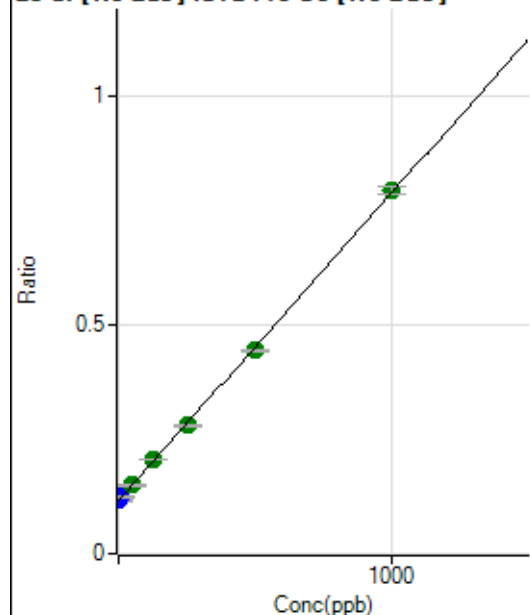
DL = 0.5571

BEC = 2.78

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	794252.37	0.1160	P	2.7
2	☐	10.000	11.671	844132.98	0.1238	P	2.0
3	☐	50.000	51.381	1046363.00	0.1505	A	2.2
4	☐	125.000	133.588	1422723.03	0.2056	A	1.0
5	☐	250.000	243.213	1989695.21	0.2792	A	0.5
6	☐	500.000	488.002	3147466.19	0.4435	A	0.9
7	☐	1000.000	1006.536	5635183.50	0.7915	A	2.1
8	☐			1918814.54	0.2890	A	6.4

$$y = 6.7113\text{E-}004 * x + 0.1160$$

$$R = 0.9998$$

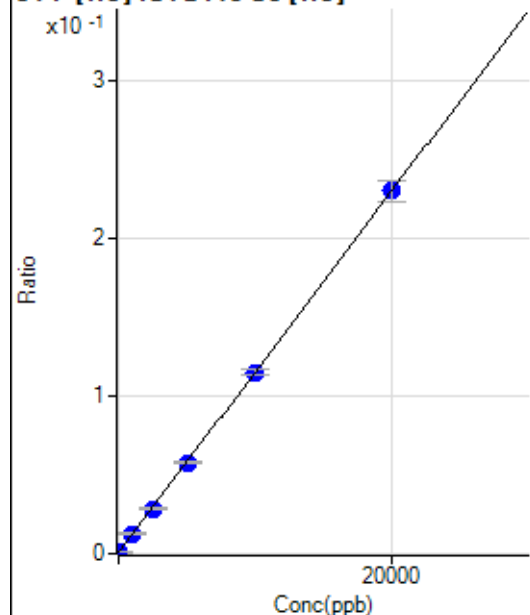
$$DL = 13.88$$

$$BEC = 172.8$$

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	-13.129	125.00	0.0006	P	19.5
2	☐	0.000	13.129	191.67	0.0009	P	18.8
3	☐	1000.000	1022.697	2703.09	0.0124	P	7.8
4	☐	2500.000	2403.557	6112.56	0.0282	P	5.7
5	☐	5000.000	4962.815	12288.87	0.0575	P	2.1
6	☐	10000.000	9985.003	24053.79	0.1149	P	3.6
7	☐	20000.000	20027.715	46110.19	0.2298	P	5.6
8	☐			130.56	0.0007	P	6.8

$$y = 1.1436\text{E-}005 * x + 7.2097\text{E-}004$$

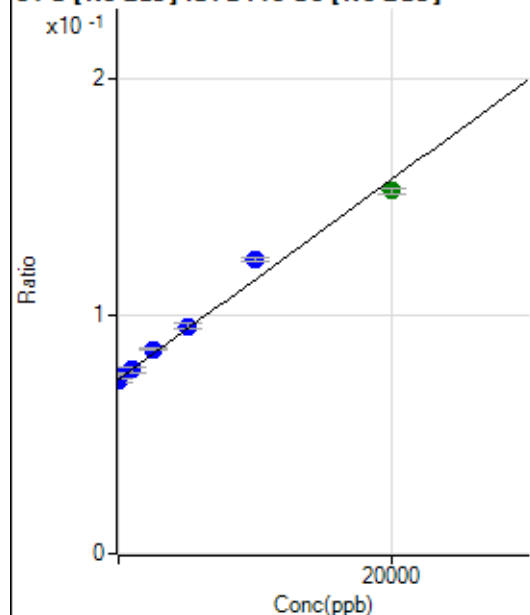
$$R = 1.0000$$

$$DL = 36.14$$

$$BEC = 63.05$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-210.249	497014.93	0.0726	P	2.4
2	☐	0.000	210.249	506849.63	0.0743	P	1.8
3	☐	1000.000	999.721	540003.16	0.0777	P	3.1
4	☐	2500.000	3001.295	595516.62	0.0861	P	1.5
5	☐	5000.000	5337.715	683152.71	0.0959	P	2.6
6	☐	10000.000	12016.831	879862.92	0.1240	P	1.1
7	☐	20000.000	18844.508	1087061.50	0.1527	A	1.5
8	☐			434513.35	0.0654	P	2.1

$$y = 4.2055\text{E-}006 * x + 0.0735$$

$$R = 0.9915$$

$$DL = 1098$$

$$BEC = 1.747\text{E}+04$$

Weight: <None>

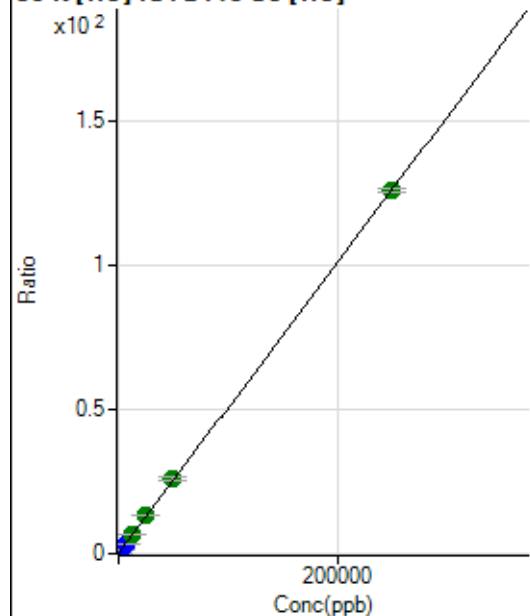
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			281422.10		P	0.2
2	☐			275692.19		P	0.9
3	☐			305367.59		P	0.6
4	☐			310968.25		P	0.9
5	☐			307704.29		P	1.1
6	☐			299664.08		P	0.7
7	☐			301385.75		P	0.7
8	☐			297887.36		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1666.81		P	7.9
2	☐			1744.59		P	8.8
3	☐			1902.95		P	3.3
4	☐			1855.74		P	6.2
5	☐			1716.82		P	8.3
6	☐			1677.92		P	7.5
7	☐			1669.58		P	9.7
8	☐			1636.25		P	11.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20581.82	0.0940	P	1.8
2	☐	500.000	469.134	72641.17	0.3302	P	1.6
3	☐	2500.000	2746.596	321701.97	1.4770	P	6.4
4	☐	6250.000	6566.958	736965.11	3.4008	P	0.7
5	☐	12500.000	13035.734	1423109.49	6.6581	A	2.8
6	☐	25000.000	25907.327	2749825.10	13.1396	A	1.2
7	☐	50000.000	51011.777	5174218.43	25.7810	A	5.8
8	☐	250000.00	249669.79	25191388.76	125.8155	A	0.9

$$y = 5.0355E-004 * x + 0.0940$$

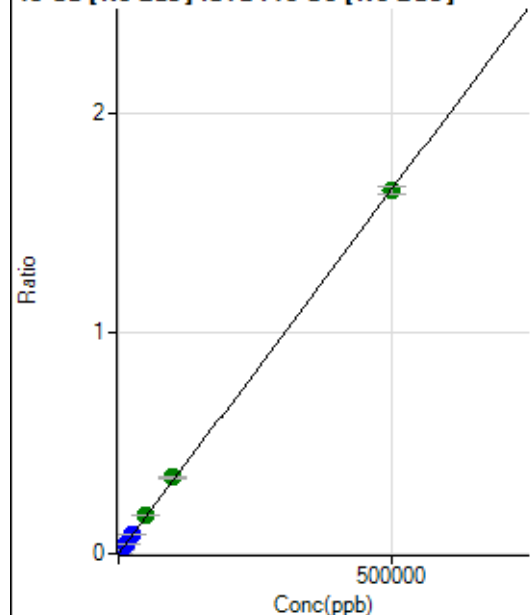
$$R = 1.0000$$

$$DL = 10.01$$

$$BEC = 186.6$$

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	318.30	0.0000	P	1.5
2	☐	500.000	444.873	10320.35	0.0015	P	1.1
3	☐	5000.000	5281.370	121440.15	0.0175	P	2.8
4	☐	12500.000	13095.464	299131.36	0.0432	P	1.1
5	☐	25000.000	25537.665	600277.24	0.0843	P	2.7
6	☐	50000.000	52784.549	1235515.94	0.1741	A	1.7
7	☐	100000.00	105115.41	2467916.25	0.3467	A	1.6
8	☐	500000.00	498653.93	10925477.35	1.6446	A	2.3

$$y = 3.2979\text{E-}006 * x + 4.6445\text{E-}005$$

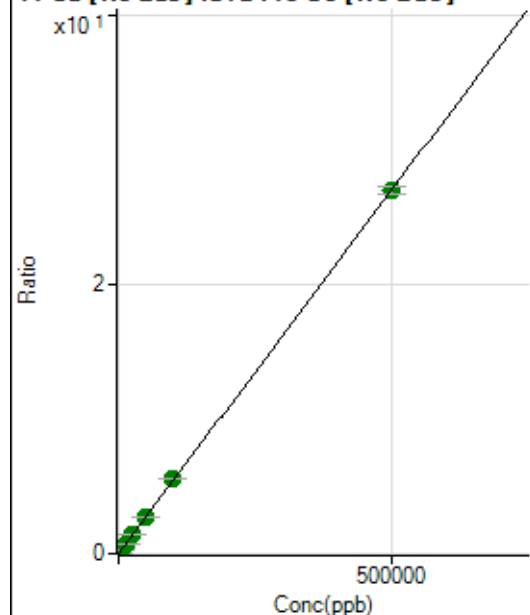
$$R = 0.9999$$

$$DL = 0.62$$

$$BEC = 14.08$$

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	36238.71	0.0053	P	2.4
2	☐	500.000	446.231	200186.15	0.0294	P	1.8
3	☐	5000.000	5331.778	2037839.83	0.2929	A	1.3
4	☐	12500.000	12925.675	4861173.25	0.7025	A	1.7
5	☐	25000.000	25478.124	9831075.30	1.3796	A	2.4
6	☐	50000.000	51109.437	19602803.22	2.7622	A	0.1
7	☐	100000.00	103244.21	39685803.92	5.5743	A	1.4
8	☐	500000.00	499202.40	178921416.7	26.9325	A	2.2

$$y = 5.3940\text{E-}005 * x + 0.0053$$

$$R = 1.0000$$

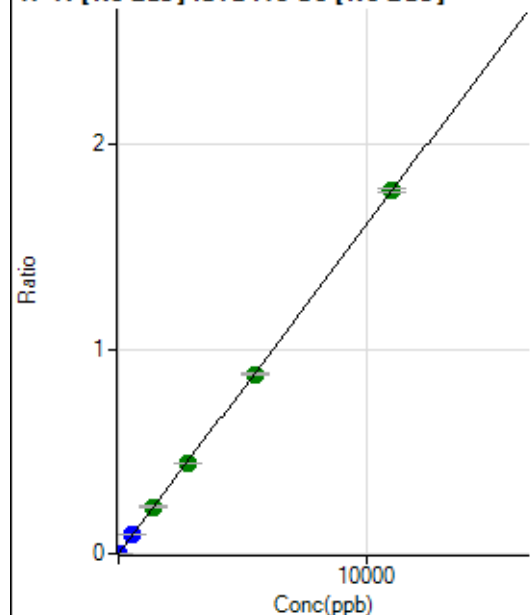
$$DL = 7.209$$

$$BEC = 98.1$$

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	275.01	0.0000	P	23.0
2	☐	5.000	4.745	5479.02	0.0008	P	2.5
3	☐	550.000	582.595	652058.20	0.0938	P	2.7
4	☐	1375.000	1429.706	1591679.69	0.2301	A	1.0
5	☐	2750.000	2741.449	3142705.52	0.4411	A	1.7
6	☐	5500.000	5448.528	6221897.75	0.8766	A	1.1
7	☐	11000.000	11019.406	12620334.83	1.7729	A	1.2
8	☐			4700.98	0.0007	P	26.3

$$y = 1.6089E-004 * x + 4.0242E-005$$

$$R = 1.0000$$

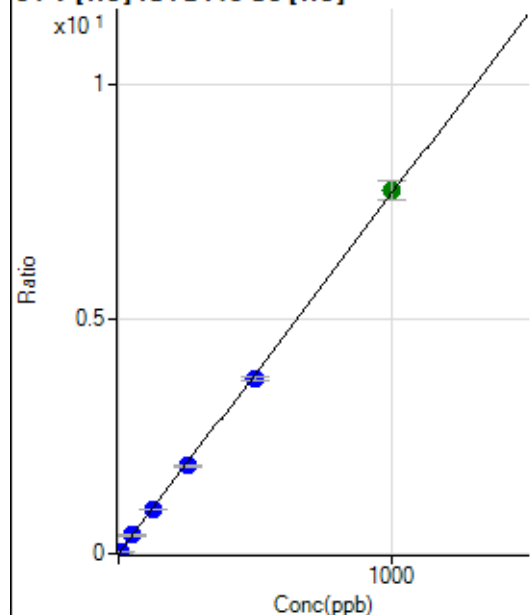
$$DL = 0.1727$$

$$BEC = 0.2501$$

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	4.44	0.0000	P	42.4
2	☐	5.000	4.493	7573.19	0.0344	P	3.9
3	☐	50.000	51.047	85118.67	0.3909	P	7.1
4	☐	125.000	123.616	205143.71	0.9466	P	0.6
5	☐	250.000	243.270	398196.94	1.8629	P	2.2
6	☐	500.000	486.772	780036.98	3.7275	P	1.7
7	☐	1000.000	1008.420	1549966.70	7.7221	A	5.4
8	☐			527.79	0.0026	P	13.7

$$y = 0.0077 * x + 2.0247E-005$$

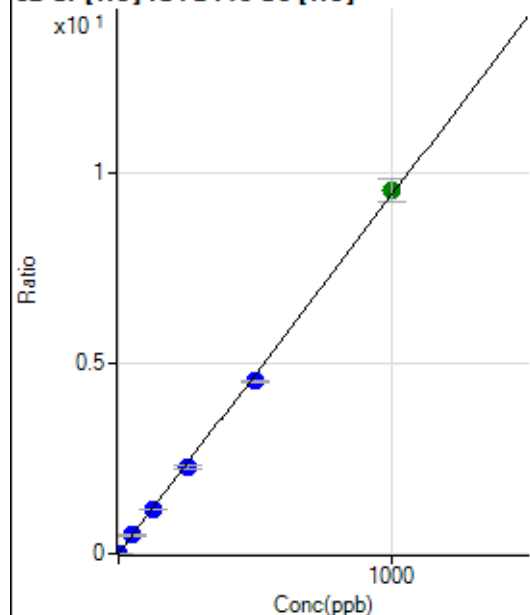
$$R = 0.9998$$

$$DL = 0.003364$$

$$BEC = 0.002644$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	491.12	0.0022	P	13.9
2	☐	2.000	1.774	4173.98	0.0190	P	1.7
3	☐	50.000	51.061	105341.13	0.4836	P	6.0
4	☐	125.000	122.729	251179.83	1.1591	P	1.8
5	☐	250.000	241.180	486380.57	2.2757	P	2.7
6	☐	500.000	480.894	949123.23	4.5353	P	1.0
7	☐	1000.000	1011.989	1914575.75	9.5416	A	6.2
8	☐			3536.03	0.0177	P	3.5

$$y = 0.0094 * x + 0.0022$$

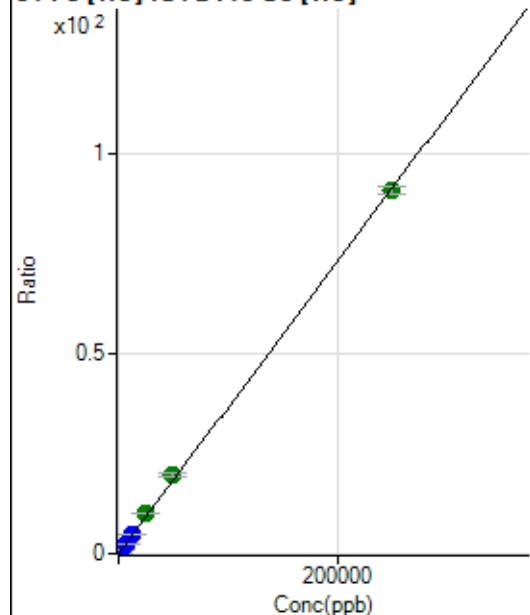
$$R = 0.9997$$

$$DL = 0.09924$$

$$BEC = 0.2384$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	461.13	0.0021	P	8.2
2	☐	50.000	51.276	4576.73	0.0208	P	4.3
3	☐	2500.000	2812.489	223792.98	1.0279	P	7.3
4	☐	6250.000	6751.119	534081.21	2.4644	P	1.6
5	☐	12500.000	13148.483	1025314.35	4.7976	P	3.0
6	☐	25000.000	27396.964	2091626.25	9.9943	A	0.5
7	☐	50000.000	54551.661	3995197.23	19.8982	A	4.5
8	☐	250000.00	248801.89	18168549.94	90.7452	A	2.1

$$y = 3.6472E-004 * x + 0.0021$$

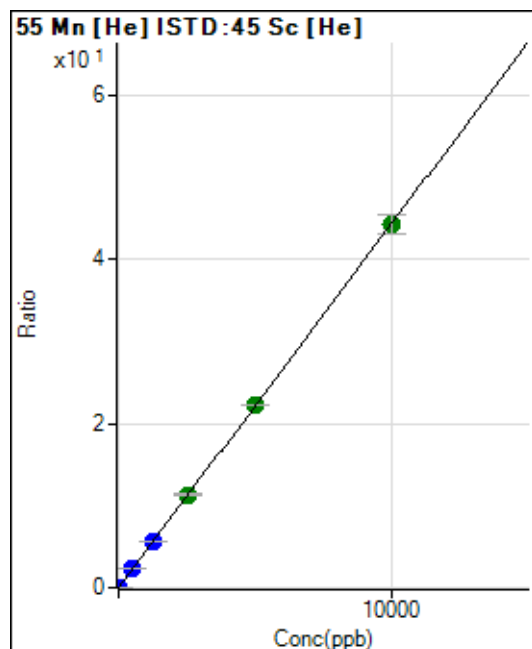
$$R = 0.9998$$

$$DL = 1.414$$

$$BEC = 5.767$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	78.89	0.0004	P	14.9
2	☐	1.000	0.950	1004.49	0.0046	P	9.4
3	☐	500.000	521.588	503043.09	2.3101	P	7.0
4	☐	1250.000	1260.085	1209344.67	5.5805	P	0.3
5	☐	2500.000	2559.491	2423197.84	11.3347	A	1.3
6	☐	5000.000	5026.497	4658501.07	22.2595	A	0.5
7	☐	10000.000	9969.539	8861039.52	44.1491	A	5.3
8	☐			5134.31	0.0256	P	7.0

$$y = 0.0044 * x + 3.5943E-004$$

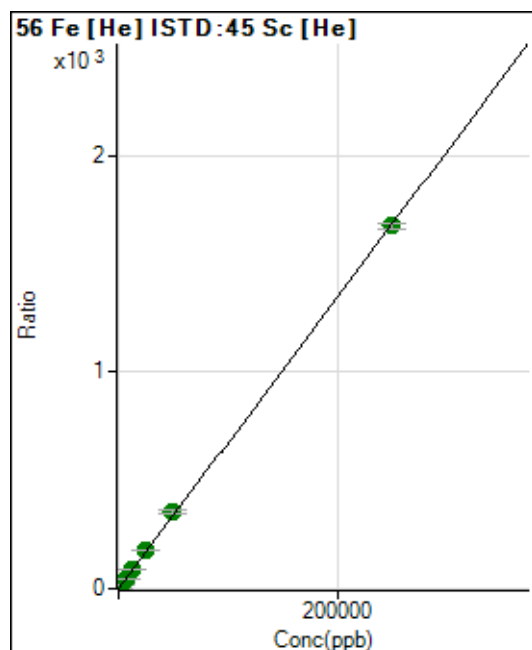
$$R = 1.0000$$

$$DL = 0.03637$$

$$BEC = 0.08116$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3313.41	0.0151	P	3.0
2	☐	50.000	47.562	73616.78	0.3346	P	1.2
3	☐	2500.000	2775.124	4062097.14	18.6576	A	7.7
4	☐	6250.000	6716.855	9782476.72	45.1370	A	1.7
5	☐	12500.000	13006.216	18674004.12	87.3871	A	3.6
6	☐	25000.000	26316.171	37000298.98	176.7995	A	0.8
7	☐	50000.000	52529.243	70842496.95	352.8913	A	4.8
8	☐	250000.00	249322.80	335356074.1	1,674.893	A	1.5

$$y = 0.0067 * x + 0.0151$$

$$R = 0.9999$$

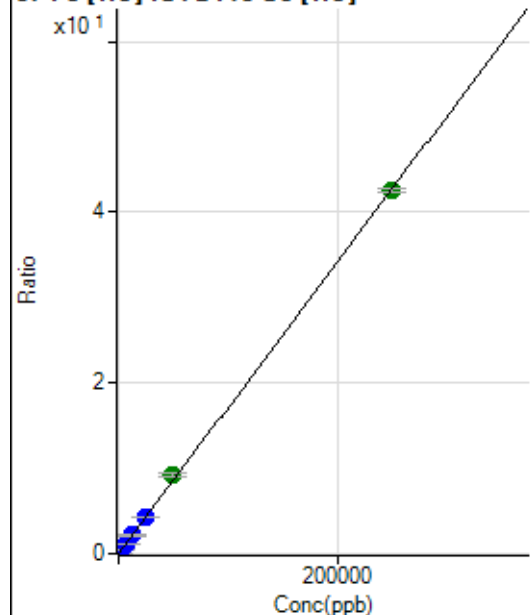
$$DL = 0.2021$$

$$BEC = 2.252$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	227.79	0.0010	P	18.8
2	☐	50.000	48.141	2035.37	0.0093	P	6.2
3	☐	2500.000	2695.132	100382.88	0.4609	P	6.6
4	☐	6250.000	6438.325	238294.48	1.0996	P	1.2
5	☐	12500.000	12644.476	461362.92	2.1585	P	2.4
6	☐	25000.000	25297.871	903559.18	4.3176	P	1.4
7	☐	50000.000	54027.636	1850486.88	9.2197	A	5.3
8	☐	250000.00	249150.80	8512321.89	42.5131	A	1.2

$$y = 1.7063\text{E-}004 * x + 0.0010$$

$$R = 0.9999$$

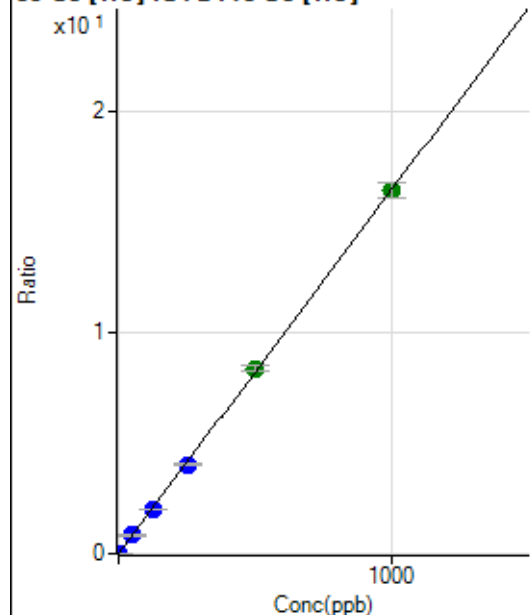
$$DL = 3.427$$

$$BEC = 6.081$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0003	P	22.3
2	☐	1.000	0.912	3360.43	0.0153	P	1.9
3	☐	50.000	51.344	183930.75	0.8445	P	6.7
4	☐	125.000	123.542	440272.09	2.0316	P	0.4
5	☐	250.000	244.273	858645.47	4.0168	P	1.8
6	☐	500.000	507.884	1747560.11	8.3513	A	3.1
7	☐	1000.000	997.605	3293635.06	16.4036	A	4.3
8	☐			4472.97	0.0223	P	4.3

$$y = 0.0164 * x + 2.7988\text{E-}004$$

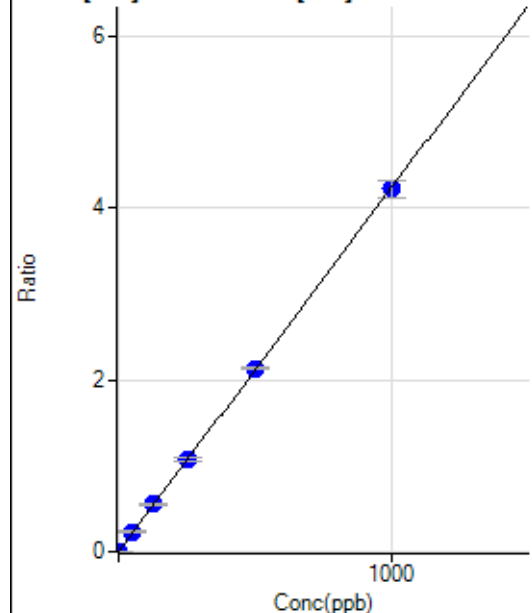
$$R = 0.9999$$

$$DL = 0.0114$$

$$BEC = 0.01702$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	88.89	0.0004	P	23.0
2	☐	1.000	1.033	1051.16	0.0048	P	4.0
3	☐	50.000	54.169	50009.93	0.2297	P	7.6
4	☐	125.000	129.682	119057.20	0.5494	P	0.5
5	☐	250.000	252.923	228895.62	1.0711	P	3.4
6	☐	500.000	503.409	446057.42	2.1314	P	0.9
7	☐	1000.000	996.771	847137.56	4.2200	P	4.9
8	☐			1203.40	0.0060	P	1.1

$$y = 0.0042 * x + 4.0474E-004$$

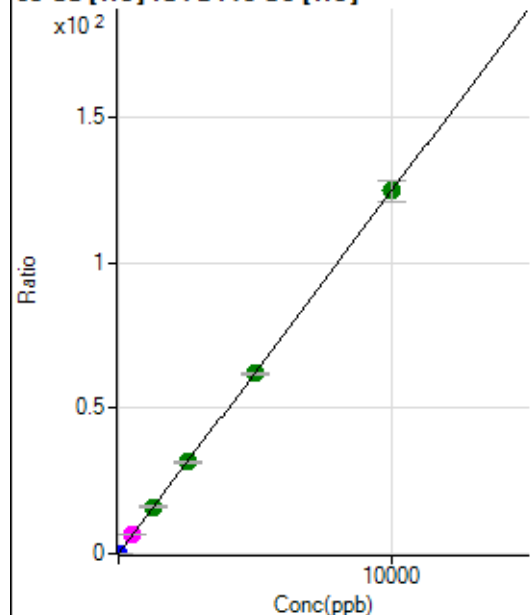
$$R = 1.0000$$

$$DL = 0.06604$$

$$BEC = 0.09561$$

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	772.25	0.0035	P	2.6
2	☐	2.000	1.881	5944.64	0.0270	P	2.1
3	☐	500.000	523.524	1425195.90	6.5402	M	5.4
4	☐	1250.000	1297.339	3510960.12	16.2021	A	1.0
5	☐	2500.000	2524.802	6737881.91	31.5281	A	3.1
6	☐	5000.000	4965.262	12975277.86	61.9996	A	1.1
7	☐	10000.000	10004.075	25065455.46	124.9141	A	6.0
8	☐			7851.14	0.0392	P	8.9

$$y = 0.0125 * x + 0.0035$$

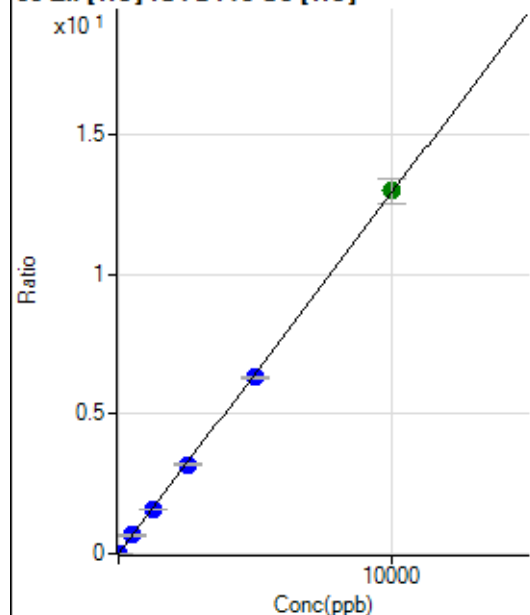
$$R = 1.0000$$

$$DL = 0.02221$$

$$BEC = 0.2826$$

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	231.12	0.0011	P	7.5
2	☐	2.000	2.090	824.48	0.0037	P	5.8
3	☐	500.000	516.125	145152.10	0.6665	P	6.7
4	☐	1250.000	1245.269	348119.55	1.6065	P	1.1
5	☐	2500.000	2458.458	677686.50	3.1706	P	2.3
6	☐	5000.000	4893.707	1320538.92	6.3102	P	1.1
7	☐	10000.000	10063.317	2602877.05	12.9750	A	6.8
8	☐			4668.59	0.0233	P	3.4

$$y = 0.0013 * x + 0.0011$$

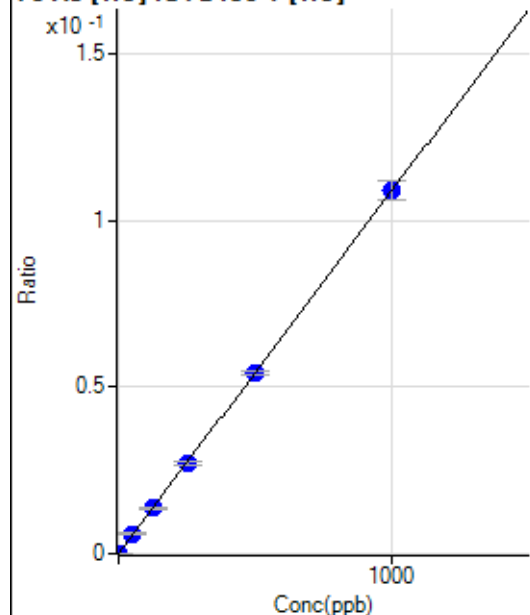
$$R = 0.9999$$

$$DL = 0.183$$

$$BEC = 0.8182$$

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	6.67	0.0000	P	58.3
2	☐	1.000	0.932	166.69	0.0001	P	8.2
3	☐	50.000	53.975	9172.25	0.0059	P	7.6
4	☐	125.000	125.011	21839.01	0.0136	P	1.4
5	☐	250.000	249.588	42685.64	0.0272	P	2.9
6	☐	500.000	498.606	84052.47	0.0543	P	2.1
7	☐	1000.000	1000.600	161554.43	0.1090	P	5.2
8	☐			63.01	0.0000	P	30.4

$$y = 1.0896E-004 * x + 4.2378E-006$$

$$R = 1.0000$$

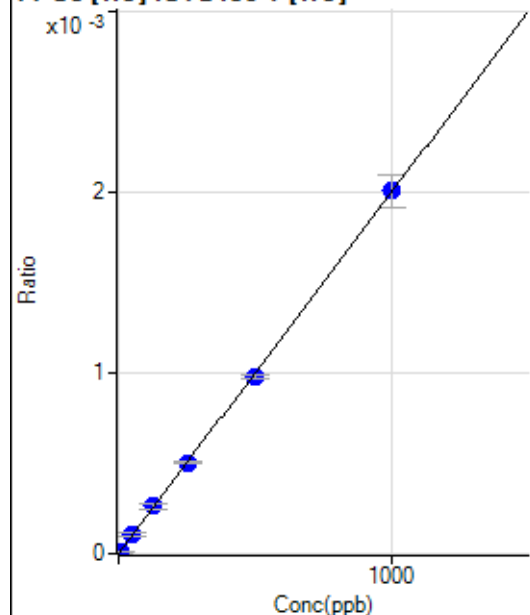
$$DL = 0.06805$$

$$BEC = 0.03889$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	5.262	17.78	0.0000	P	40.9
3	☐	50.000	54.449	170.01	0.0001	P	18.8
4	☐	125.000	131.494	422.24	0.0003	P	12.7
5	☐	250.000	250.923	787.81	0.0005	P	2.7
6	☐	500.000	490.320	1516.77	0.0010	P	2.5
7	☐	1000.000	1003.574	2970.34	0.0020	P	9.0
8	☐			2.22	0.0000	P	173.2

$$y = 1.9976E-006 * x + 7.1366E-007$$

$$R = 0.9999$$

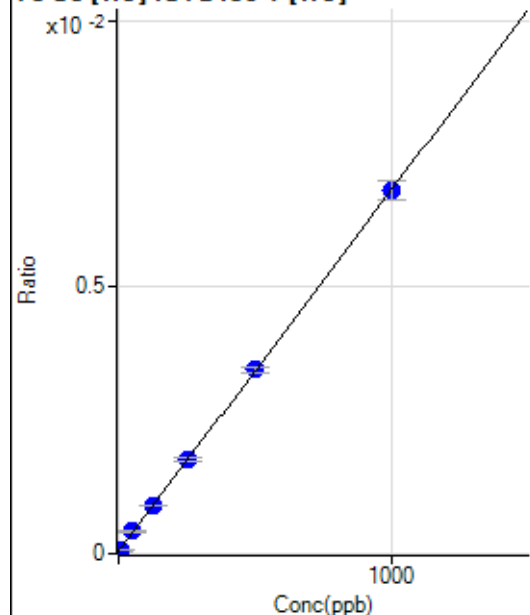
$$DL = 1.856$$

$$BEC = 0.3573$$

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	72.68	0.0000	P	17.4
2	☐	5.000	3.315	107.68	0.0001	P	1.3
3	☐	50.000	55.009	653.08	0.0004	P	5.4
4	☐	125.000	126.246	1445.22	0.0009	P	2.9
5	☐	250.000	253.512	2768.56	0.0018	P	4.0
6	☐	500.000	501.808	5333.22	0.0034	P	2.2
7	☐	1000.000	997.820	10089.63	0.0068	P	5.3
8	☐			62.34	0.0000	P	22.8

$$y = 6.7787E-006 * x + 4.5893E-005$$

$$R = 1.0000$$

$$DL = 3.542$$

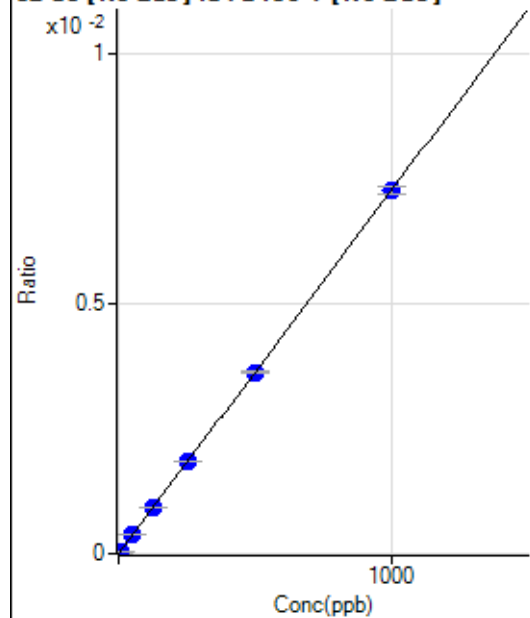
$$BEC = 6.77$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			18404.50		P	2.5
2	☐			18107.03		P	2.2
3	☐			18133.99		P	4.5
4	☐			18437.88		P	3.9
5	☐			18544.77		P	0.9
6	☐			18521.43		P	4.4
7	☐			17876.68		P	7.6
8	☐			17816.38		P	3.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.96	0.0000	P	2548.
2	☐	5.000	3.802	406.74	0.0000	P	25.1
3	☐	50.000	54.489	5894.37	0.0004	P	3.0
4	☐	125.000	127.604	14059.84	0.0009	P	1.4
5	☐	250.000	254.700	27797.84	0.0019	P	0.7
6	☐	500.000	499.818	55385.37	0.0036	P	0.4
7	☐	1000.000	998.372	108823.93	0.0073	P	2.2
8	☐			152.44	0.0000	P	62.3

$$y = 7.2763E-006 * x + 5.2416E-007$$

$$R = 1.0000$$

$$DL = 5.507$$

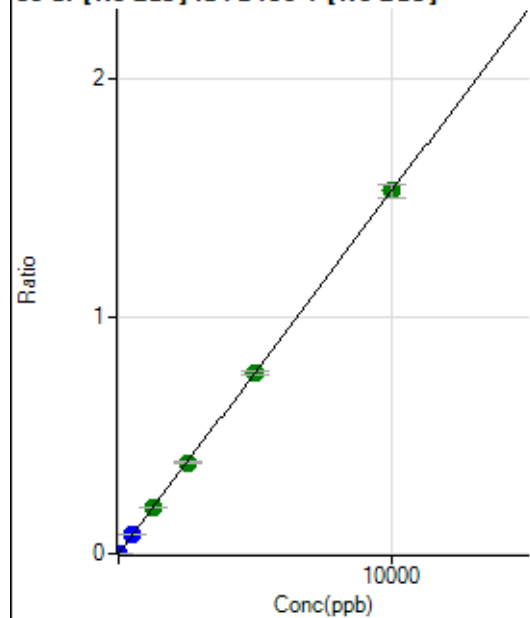
$$BEC = 0.07204$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3447.13		P	5.3
2	☐			3576.05		P	3.0
3	☐			3324.87		P	3.4
4	☐			3546.03		P	1.7
5	☐			3447.12		P	5.3
6	☐			3429.35		P	2.8
7	☐			3413.78		P	5.3
8	☐			3447.13		P	3.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5306.72	0.0004	P	4.9
2	☐	1.000	1.129	7760.69	0.0005	P	0.8
3	☐	500.000	512.966	1167872.06	0.0787	P	0.8
4	☐	1250.000	1252.810	2900842.93	0.1917	A	0.8
5	☐	2500.000	2507.479	5747018.40	0.3832	A	2.7
6	☐	5000.000	4985.257	11596245.83	0.7616	A	1.3
7	☐	10000.000	10004.502	22884970.30	1.5280	A	3.6
8	☐			24377.51	0.0017	P	8.9

$$y = 1.5269E-004 * x + 3.6282E-004$$

$$R = 1.0000$$

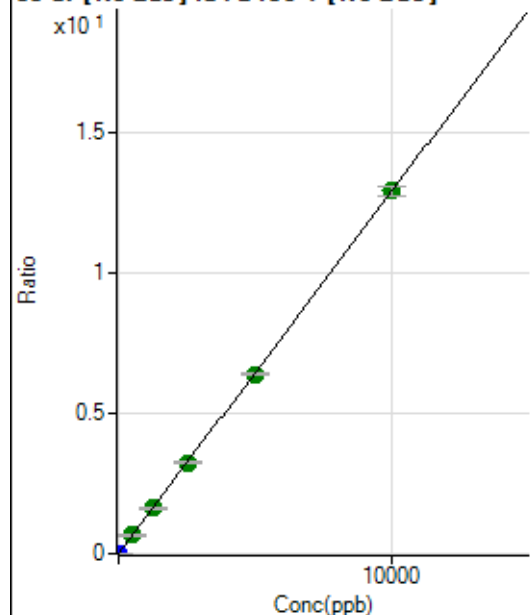
$$DL = 0.3467$$

$$BEC = 2.376$$

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	152.78	0.0000	P	9.2
2	☐	1.000	0.947	17856.34	0.0012	P	5.9
3	☐	500.000	506.763	9708471.74	0.6540	A	1.3
4	☐	1250.000	1249.702	24417432.32	1.6128	A	2.1
5	☐	2500.000	2504.452	48468911.15	3.2321	A	2.0
6	☐	5000.000	4959.519	97459086.21	6.4005	A	0.6
7	☐	10000.000	10018.826	193681201.5	12.9299	A	2.5
8	☐			160224.00	0.0114	P	10.5

$$y = 0.0013 * x + 1.0446E-005$$

$$R = 1.0000$$

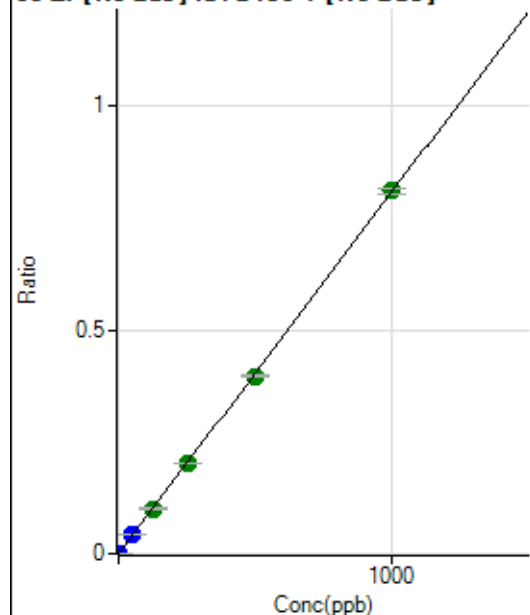
$$DL = 0.002222$$

$$BEC = 0.008094$$

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	783.38	0.0001	P	13.5
2	☐	1.000	0.919	11518.91	0.0008	P	2.1
3	☐	50.000	51.202	613782.84	0.0414	P	1.3
4	☐	125.000	124.897	1525684.34	0.1008	A	1.2
5	☐	250.000	250.473	3030060.38	0.2021	A	1.5
6	☐	500.000	491.393	6035715.19	0.3964	A	1.5
7	☐	1000.000	1004.138	12133808.87	0.8100	A	1.5
8	☐			8839.21	0.0006	P	13.9

$$y = 8.0656E-004 * x + 5.3612E-005$$

$$R = 0.9999$$

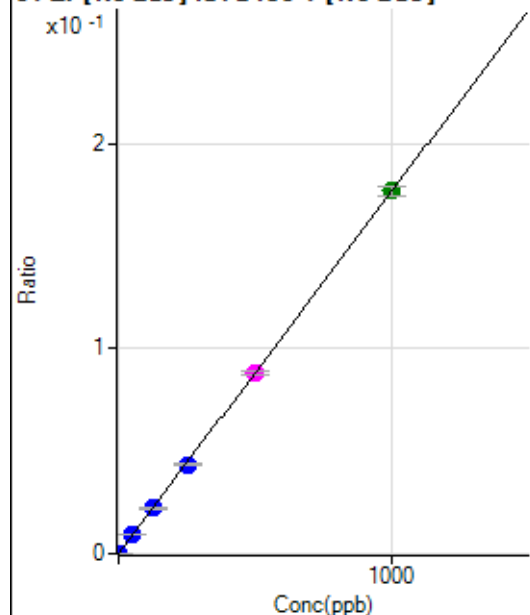
$$DL = 0.02697$$

$$BEC = 0.06647$$

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	188.90	0.0000	P	6.0
2	☐	1.000	0.893	2472.51	0.0002	P	7.1
3	☐	50.000	51.972	136554.53	0.0092	P	1.5
4	☐	125.000	125.010	334629.41	0.0221	P	2.0
5	☐	250.000	246.689	654149.68	0.0436	P	1.3
6	☐	500.000	497.562	1339585.48	0.0880	M	1.8
7	☐	1000.000	1001.947	2653148.65	0.1771	A	3.0
8	☐			1916.85	0.0001	P	14.6

$$y = 1.7679\text{E-}004 * x + 1.2905\text{E-}005$$

$$R = 1.0000$$

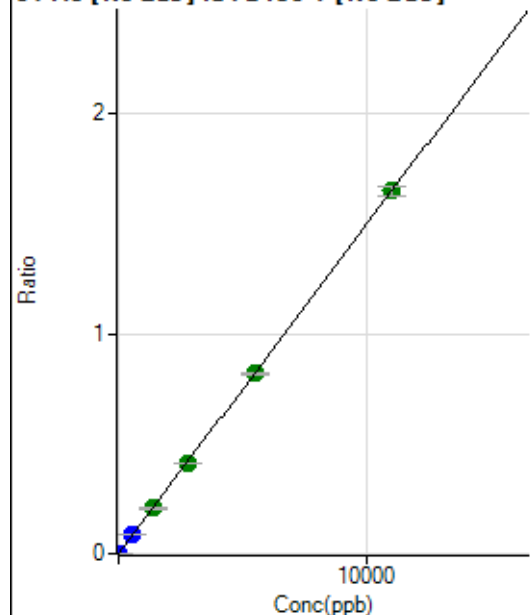
$$DL = 0.01306$$

$$BEC = 0.07299$$

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	269.46	0.0000	P	10.8
2	☐	5.000	5.941	13162.11	0.0009	P	5.0
3	☐	550.000	565.594	1257939.34	0.0848	P	1.4
4	☐	1375.000	1381.658	3132102.02	0.2070	A	3.3
5	☐	2750.000	2738.813	6153551.92	0.4104	A	1.5
6	☐	5500.000	5480.543	12503731.96	0.8212	A	1.1
7	☐	11000.000	11010.913	24709343.43	1.6498	A	2.9
8	☐			11975.19	0.0009	P	19.8

$$y = 1.4983\text{E-}004 * x + 1.8392\text{E-}005$$

$$R = 1.0000$$

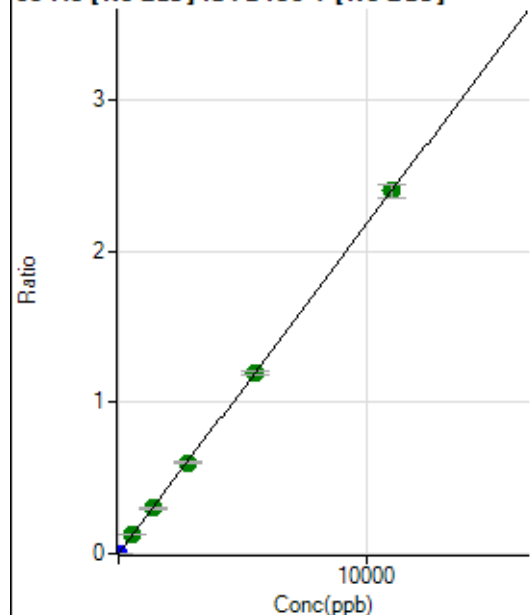
$$DL = 0.03981$$

$$BEC = 0.1228$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	74.2
2	☐	5.000	4.960	15698.17	0.0011	P	3.1
3	☐	550.000	569.789	1841311.11	0.1241	A	1.9
4	☐	1375.000	1383.621	4557593.24	0.3013	A	3.7
5	☐	2750.000	2747.464	8970497.08	0.5983	A	2.1
6	☐	5500.000	5484.334	18182884.43	1.1942	A	2.2
7	☐	11000.000	11006.400	35889195.60	2.3966	A	3.8
8	☐			14900.59	0.0011	P	22.3

$$y = 2.1775\text{E-}004 * x + 2.6459\text{E-}006$$

$$R = 1.0000$$

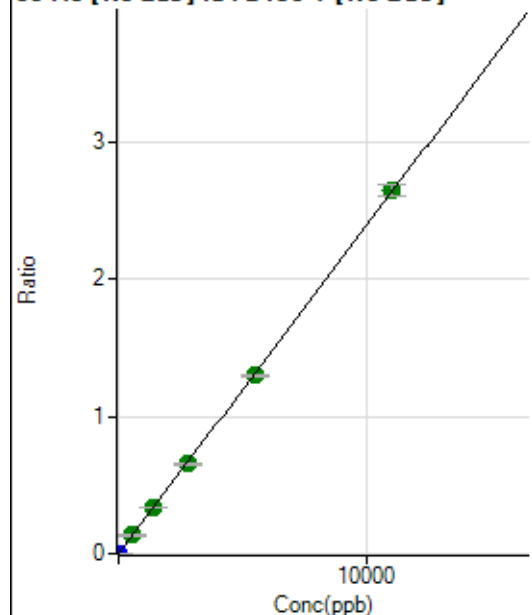
$$DL = 0.02704$$

$$BEC = 0.01215$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	155.56	0.0000	P	14.6
2	☐	5.000	4.734	16588.08	0.0011	P	5.8
3	☐	550.000	560.291	1993177.28	0.1343	A	1.6
4	☐	1375.000	1399.401	5075289.57	0.3354	A	2.4
5	☐	2750.000	2724.961	9793763.15	0.6531	A	0.6
6	☐	5500.000	5421.479	19785876.66	1.2994	A	1.1
7	☐	11000.000	11041.955	39636323.11	2.6466	A	3.3
8	☐			22469.52	0.0016	P	17.9

$$y = 2.3968\text{E-}004 * x + 1.0612\text{E-}005$$

$$R = 1.0000$$

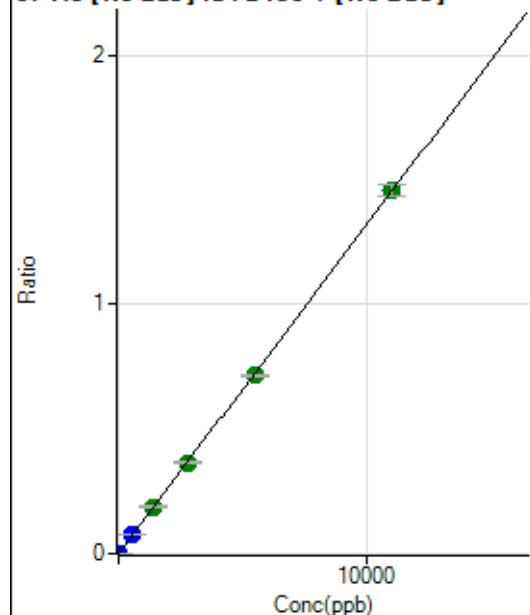
$$DL = 0.01933$$

$$BEC = 0.04427$$

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	13.89	0.0000	P	67.6
2	☐	5.000	4.773	9144.92	0.0006	P	2.1
3	☐	550.000	562.709	1101928.32	0.0742	P	2.0
4	☐	1375.000	1416.395	2827772.44	0.1869	A	2.5
5	☐	2750.000	2764.725	5470097.00	0.3648	A	1.4
6	☐	5500.000	5432.583	10914947.47	0.7168	A	1.0
7	☐	11000.000	11024.217	21785511.08	1.4546	A	3.0
8	☐			9111.80	0.0006	P	25.6

$$y = 1.3195E-004 * x + 9.4205E-007$$

$$R = 1.0000$$

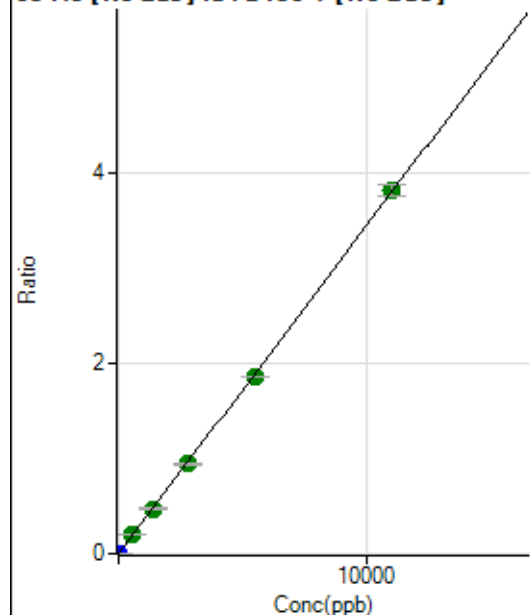
$$DL = 0.01447$$

$$BEC = 0.00714$$

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	25.00	0.0000	P	32.1
2	☐	5.000	4.699	23481.51	0.0016	P	4.7
3	☐	550.000	564.210	2885157.94	0.1944	A	2.3
4	☐	1375.000	1367.820	7130872.90	0.4713	A	2.8
5	☐	2750.000	2727.444	14091740.42	0.9398	A	1.3
6	☐	5500.000	5404.481	28355343.69	1.8622	A	0.3
7	☐	11000.000	11053.586	57041406.83	3.8087	A	3.1
8	☐			22912.72	0.0016	P	26.7

$$y = 3.4456E-004 * x + 1.7048E-006$$

$$R = 0.9999$$

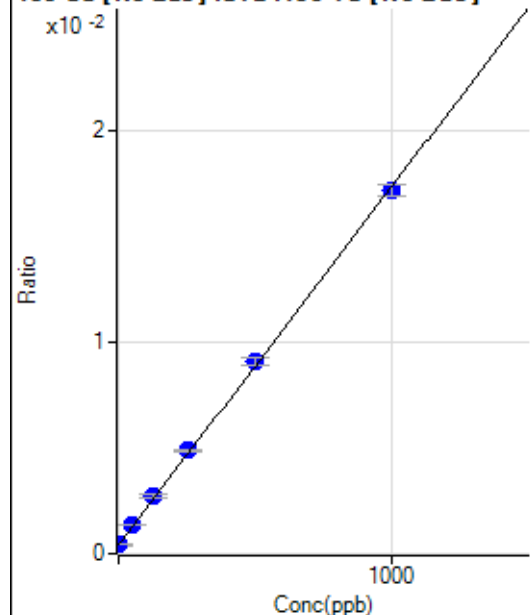
$$DL = 0.004769$$

$$BEC = 0.004948$$

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	3272.70	0.0004	P	3.0
2	☐	1.000	1.481	3558.89	0.0004	P	2.1
3	☐	50.000	56.152	10857.31	0.0014	P	2.4
4	☐	125.000	135.352	22160.15	0.0027	P	6.2
5	☐	250.000	264.406	40630.14	0.0049	P	1.1
6	☐	500.000	511.470	78429.19	0.0090	P	3.6
7	☐	1000.000	989.061	151766.75	0.0171	P	3.2
8	☐			3261.60	0.0004	P	6.5

$$y = 1.6892E-005 * x + 4.0894E-004$$

R = 0.9998

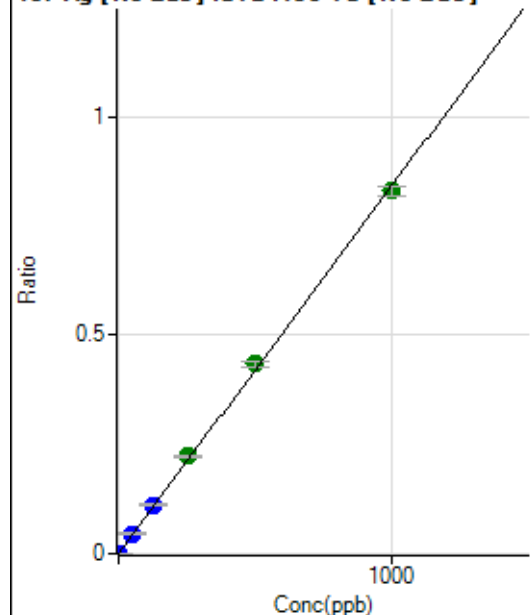
DL = 2.152

BEC = 24.21

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	183.34	0.0000	P	26.6
2	☐	1.000	0.941	6682.38	0.0008	P	5.0
3	☐	50.000	54.065	363746.96	0.0455	P	3.9
4	☐	125.000	132.713	917656.48	0.1116	P	5.7
5	☐	250.000	265.017	1857802.91	0.2229	A	1.2
6	☐	500.000	515.858	3760113.62	0.4338	A	3.4
7	☐	1000.000	987.149	7361170.04	0.8301	A	2.8
8	☐			3945.13	0.0005	P	14.4

$$y = 8.4091E-004 * x + 2.3002E-005$$

R = 0.9997

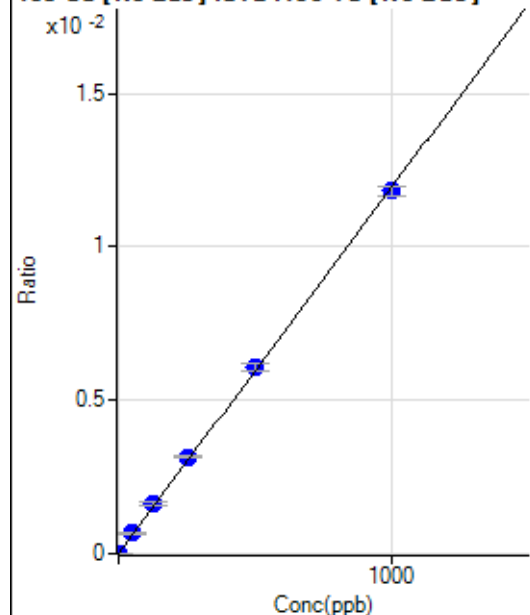
DL = 0.02183

BEC = 0.02735

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.45	0.0000	P	44.0
2	☐	1.000	0.976	115.28	0.0000	P	11.3
3	☐	50.000	54.984	5263.58	0.0007	P	6.7
4	☐	125.000	136.908	13446.99	0.0016	P	5.6
5	☐	250.000	263.096	26176.35	0.0031	P	1.6
6	☐	500.000	508.155	52566.83	0.0061	P	3.7
7	☐	1000.000	990.911	104859.51	0.0118	P	2.3
8	☐			127.78	0.0000	P	17.9

$$y = 1.1930E-005 * x + 2.4232E-006$$

$$R = 0.9998$$

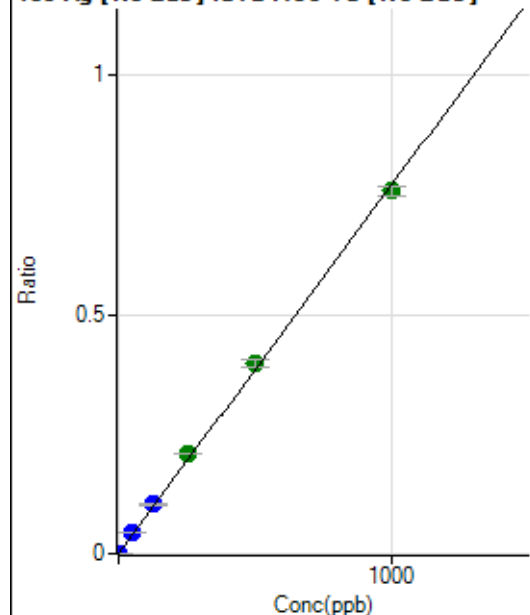
$$DL = 0.2679$$

$$BEC = 0.2031$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.12	0.0000	P	19.3
2	☐	1.000	0.983	6323.84	0.0008	P	5.1
3	☐	50.000	55.934	344772.79	0.0431	P	1.6
4	☐	125.000	135.121	856175.18	0.1041	P	3.6
5	☐	250.000	271.726	1744492.27	0.2093	A	1.2
6	☐	500.000	517.399	3454334.37	0.3986	A	3.9
7	☐	1000.000	984.307	6724377.58	0.7582	A	2.8
8	☐			3575.57	0.0004	P	12.6

$$y = 7.7032E-004 * x + 1.3897E-005$$

$$R = 0.9995$$

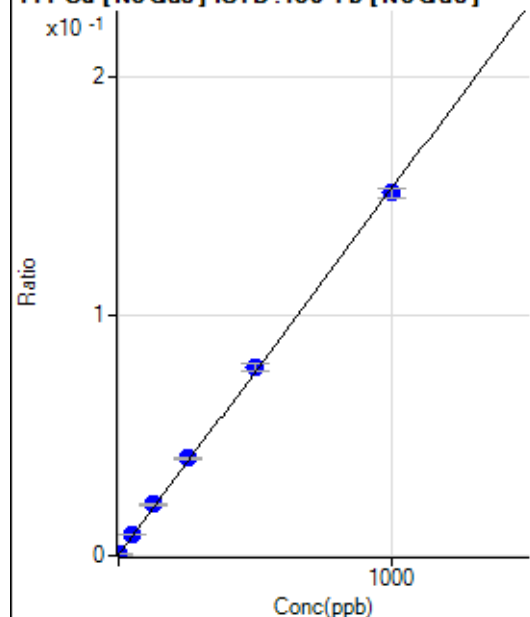
$$DL = 0.01045$$

$$BEC = 0.01804$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2291.17	0.0003	P	3.2
2	☐	1.000	1.050	3663.38	0.0004	P	2.1
3	☐	50.000	55.546	70153.73	0.0088	P	1.7
4	☐	125.000	137.277	174729.73	0.0213	P	5.3
5	☐	250.000	264.800	339440.45	0.0407	P	1.4
6	☐	500.000	511.872	680132.63	0.0785	P	3.5
7	☐	1000.000	988.552	1341474.16	0.1513	P	2.8
8	☐			2729.80	0.0003	P	4.4

$$y = 1.5274\text{E-}004 * x + 2.8630\text{E-}004$$

$$R = 0.9997$$

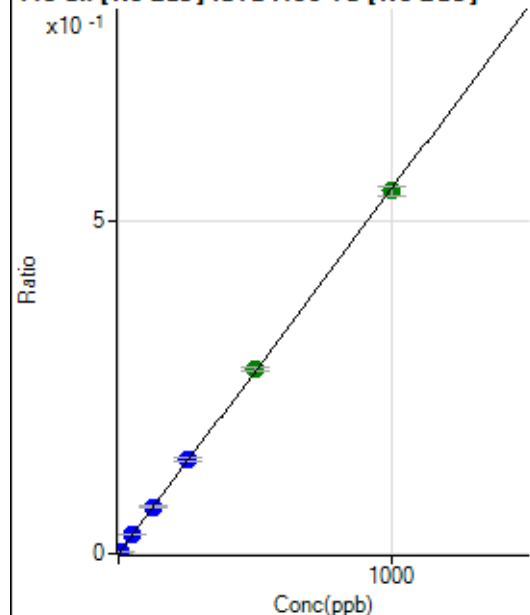
$$DL = 0.1816$$

$$BEC = 1.874$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	736.15	0.0001	P	20.3
2	☐	5.000	4.784	22257.55	0.0027	P	4.1
3	☐	50.000	53.901	237096.00	0.0296	P	1.7
4	☐	125.000	127.353	575005.05	0.0699	P	3.5
5	☐	250.000	258.087	1179701.30	0.1416	P	2.7
6	☐	500.000	505.685	2404168.35	0.2773	A	2.5
7	☐	1000.000	994.648	4836457.88	0.5454	A	2.5
8	☐			2850.39	0.0003	P	15.9

$$y = 5.4824\text{E-}004 * x + 9.2000\text{E-}005$$

$$R = 0.9999$$

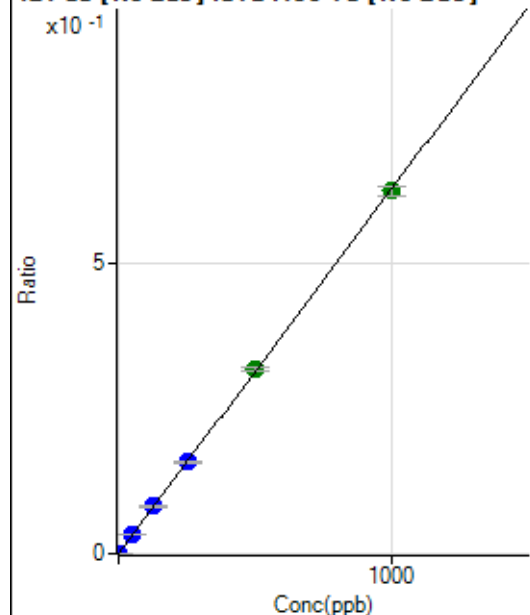
$$DL = 0.1023$$

$$BEC = 0.1678$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	32.3
2	☐	2.000	1.840	9523.01	0.0012	P	2.8
3	☐	50.000	52.189	262123.37	0.0328	P	1.9
4	☐	125.000	130.185	671980.83	0.0817	P	5.1
5	☐	250.000	251.550	1315996.64	0.1579	P	1.9
6	☐	500.000	507.105	2759942.68	0.3184	A	2.4
7	☐	1000.000	995.303	5540810.67	0.6248	A	2.8
8	☐			6251.64	0.0008	P	11.2

$$y = 6.2779\text{E-}004 * x + 6.2272\text{E-}006$$

$$R = 1.0000$$

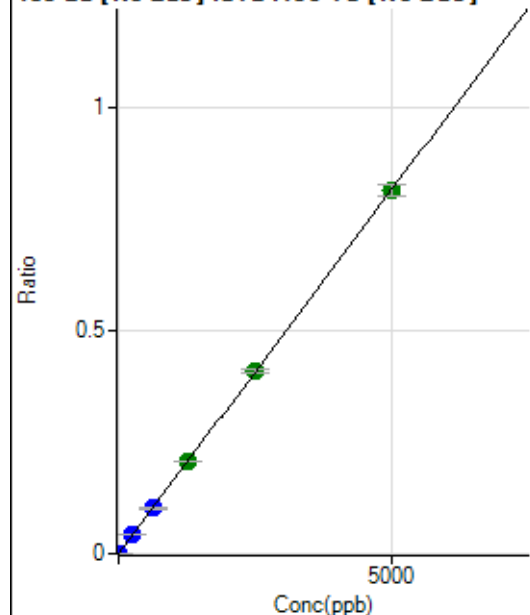
$$DL = 0.009604$$

$$BEC = 0.009919$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	2.4
2	☐	10.000	8.721	11691.46	0.0014	P	4.0
3	☐	250.000	254.716	332170.15	0.0415	P	2.5
4	☐	625.000	630.908	845777.13	0.1029	P	4.8
5	☐	1250.000	1276.787	1735034.61	0.2082	A	0.3
6	☐	2500.000	2509.365	3547596.22	0.4091	A	1.6
7	☐	5000.000	4987.649	7210569.60	0.8132	A	3.1
8	☐			3789.56	0.0005	P	8.1

$$y = 1.6304\text{E-}004 * x + 4.1656\text{E-}006$$

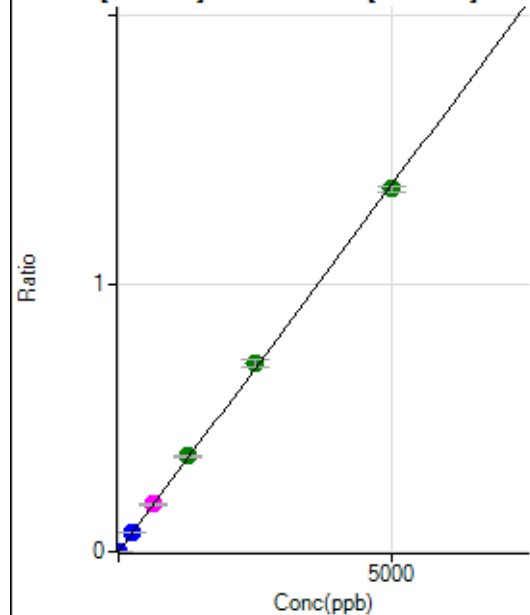
$$R = 1.0000$$

$$DL = 0.001859$$

$$BEC = 0.02555$$

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	30.56	0.0000	P	42.2
2	☐	10.000	8.959	20118.27	0.0025	P	2.7
3	☐	250.000	263.381	575935.90	0.0720	P	1.9
4	☐	625.000	649.724	1460338.93	0.1776	M	5.0
5	☐	1250.000	1303.400	2968990.56	0.3563	A	2.6
6	☐	2500.000	2569.924	6088168.89	0.7026	A	4.6
7	☐	5000.000	4947.931	11998504.26	1.3527	A	1.5
8	☐			6335.02	0.0008	P	15.7

$$y = 2.7338E-004 * x + 3.8320E-006$$

$$R = 0.9998$$

$$DL = 0.01775$$

$$BEC = 0.01402$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			6.67		P	173.2
3	☐			24.45		P	83.3
4	☐			42.22		P	24.1
5	☐			97.78		P	14.2
6	☐			148.89		P	28.8
7	☐			331.12		P	26.3
8	☐			37.78		P	50.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			3.33		P	100.1
5	☐			3.33		P	100.1
6	☐			13.33		P	43.3
7	☐			25.56		P	39.8
8	☐			15.56		P	75.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	114.6
2	☐			11.11		P	43.3
3	☐			16.67		P	50.0
4	☐			52.78		P	24.1
5	☐			52.78		P	55.5
6	☐			122.23		P	28.4
7	☐			283.35		P	19.3
8	☐			941.73		P	16.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	114.6
2	☐			3.33		P	173.2
3	☐			8.89		P	21.6
4	☐			13.33		P	25.0
5	☐			30.00		P	11.1
6	☐			74.45		P	5.2
7	☐			110.00		P	13.9
8	☐			421.12		P	13.5

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.23		P	20.4
2	☐			27.78		P	75.5
3	☐			61.11		P	28.4
4	☐			80.56		P	43.1
5	☐			83.33		P	17.3
6	☐			125.00		P	24.0
7	☐			202.78		P	35.9
8	☐			841.72		P	3.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			48.89		P	10.4
2	☐			45.56		P	4.2
3	☐			62.22		P	6.2
4	☐			84.45		P	12.7
5	☐			68.89		P	26.6
6	☐			106.67		P	8.3
7	☐			135.56		P	2.8
8	☐			517.80		P	7.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			75.00		P	22.2
2	☐			58.33		P	28.6
3	☐			41.67		P	20.0
4	☐			75.00		P	11.1
5	☐			69.44		P	38.6
6	☐			80.56		P	31.6
7	☐			88.89		P	14.3
8	☐			136.11		P	19.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			21.11		P	32.9
2	☐			18.89		P	36.7
3	☐			13.34		P	43.3
4	☐			31.11		P	12.4
5	☐			35.55		P	37.9
6	☐			32.22		P	21.5
7	☐			38.89		P	47.2
8	☐			63.33		P	21.1

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	57.7
2	☐			16.67		P	50.0
3	☐			25.00		P	57.7
4	☐			25.00		P	57.7
5	☐			27.78		P	96.4
6	☐			41.67		P	0.0
7	☐			30.56		P	41.7
8	☐			83.34		P	30.0

172 Yb [He] No available calibration points

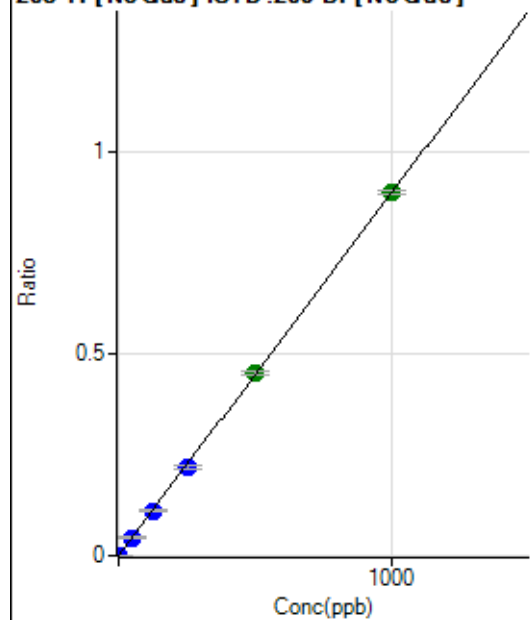
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			12.96		P	24.8
2	☐			11.11		P	86.6
3	☐			11.11		P	50.0
4	☐			9.26		P	91.7
5	☐			12.96		P	24.8
6	☐			12.97		P	49.5
7	☐			16.67		P	33.3
8	☐			42.59		P	19.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			777.83		P	7.0
2	☐			805.61		P	15.3
3	☐			1605.70		P	6.2
4	☐			2930.96		P	9.1
5	☐			4687.08		P	4.6
6	☐			8897.76		P	1.1
7	☐			17514.89		P	2.7
8	☐			833.38		P	10.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4715.75		P	2.6
2	☐			4198.90		P	1.1
3	☐			4500.85		P	9.2
4	☐			5427.14		P	3.9
5	☐			6425.77		P	2.8
6	☐			8495.47		P	3.8
7	☐			12682.25		P	0.6
8	☐			4513.81		P	3.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	119.45	0.0000	P	27.9
2	☐	1.000	0.923	3239.38	0.0009	P	10.9
3	☐	50.000	50.186	171141.06	0.0450	P	4.3
4	☐	125.000	122.071	434627.00	0.1095	P	4.2
5	☐	250.000	242.403	883327.69	0.2175	P	3.6
6	☐	500.000	503.853	1885421.18	0.4520	A	2.5
7	☐	1000.000	1000.330	3859234.42	0.8973	A	1.0
8	☐			1527.92	0.0004	P	21.0

$$y = 8.9700E-004 * x + 3.2205E-005$$

$$R = 1.0000$$

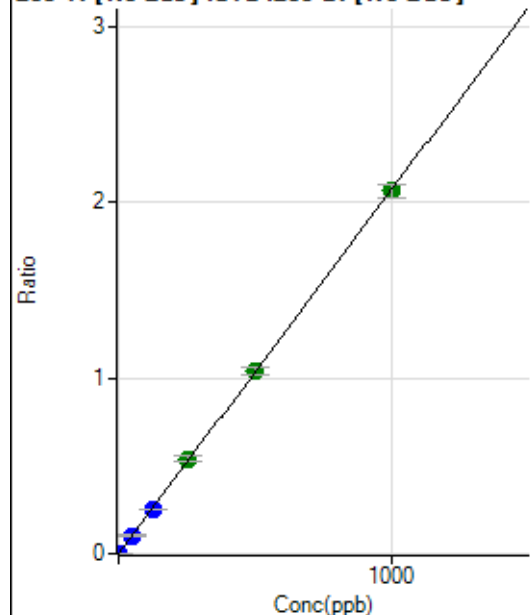
$$DL = 0.03008$$

$$BEC = 0.0359$$

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	258.34	0.0001	P	16.1
2	☐	1.000	0.854	6943.74	0.0018	P	4.0
3	☐	50.000	49.557	390790.98	0.1028	P	3.5
4	☐	125.000	121.376	999754.43	0.2518	P	2.2
5	☐	250.000	260.775	2196020.56	0.5409	A	5.4
6	☐	500.000	501.950	4340832.26	1.0410	A	4.1
7	☐	1000.000	996.807	8888723.29	2.0672	A	3.9
8	☐			3725.66	0.0010	P	19.4

$$y = 0.0021 * x + 6.9783E-005$$

$$R = 0.9999$$

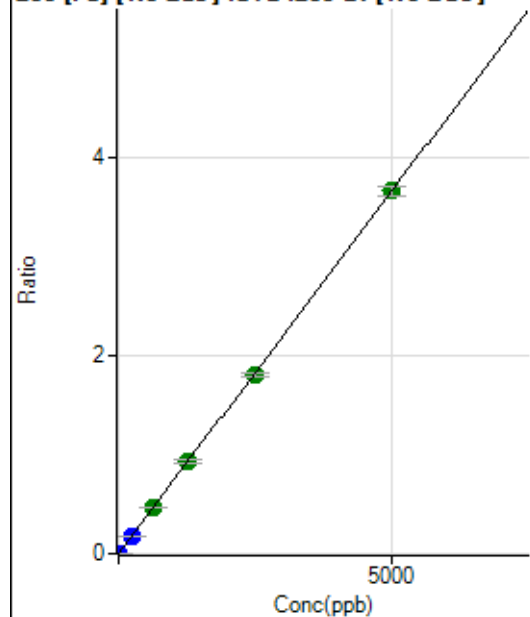
$$DL = 0.01623$$

$$BEC = 0.03365$$

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	498.17	0.0001	P	2.9
2	☐	1.000	0.884	2950.39	0.0008	P	4.6
3	☐	250.000	237.512	661811.73	0.1742	P	3.7
4	☐	625.000	629.884	1833044.19	0.4617	A	1.8
5	☐	1250.000	1275.597	3796085.53	0.9348	A	4.9
6	☐	2500.000	2471.272	7554123.84	1.8110	A	2.7
7	☐	5000.000	5007.978	15780194.57	3.6698	A	2.7
8	☐			10617.51	0.0028	P	12.1

$$y = 7.3276E-004 * x + 1.3426E-004$$

$$R = 1.0000$$

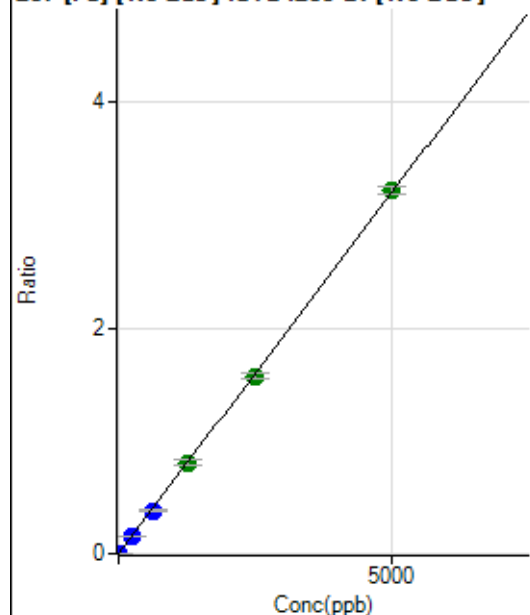
$$DL = 0.016$$

$$BEC = 0.1832$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	400.01	0.0001	P	14.4
2	☐	1.000	0.897	2574.37	0.0007	P	4.2
3	☐	250.000	239.894	583160.08	0.1535	P	4.3
4	☐	625.000	589.071	1495262.55	0.3768	P	3.6
5	☐	1250.000	1255.080	3258721.48	0.8026	A	5.9
6	☐	2500.000	2453.664	6544092.33	1.5691	A	3.3
7	☐	5000.000	5026.894	13822258.64	3.2145	A	2.0
8	☐			9646.42	0.0025	P	10.8

$$y = 6.3943E-004 * x + 1.0783E-004$$

$$R = 0.9999$$

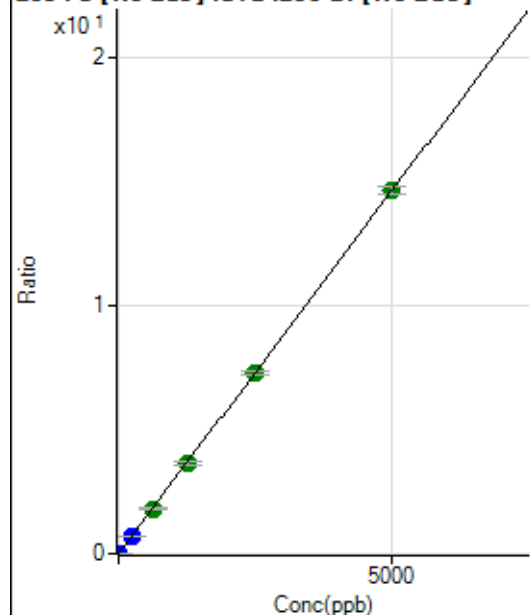
$$DL = 0.07287$$

$$BEC = 0.1686$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1850.09	0.0005	P	2.9
2	☐	1.000	0.891	11683.75	0.0031	P	2.6
3	☐	250.000	238.985	2650482.76	0.6975	P	3.0
4	☐	625.000	619.040	7167326.04	1.8060	A	3.4
5	☐	1250.000	1247.611	14781477.91	3.6392	A	4.0
6	☐	2500.000	2493.030	30331893.51	7.2715	A	2.8
7	☐	5000.000	5005.378	62773333.58	14.5989	A	2.0
8	☐			42650.61	0.0111	P	12.0

$$y = 0.0029 * x + 4.9861E-004$$

$$R = 1.0000$$

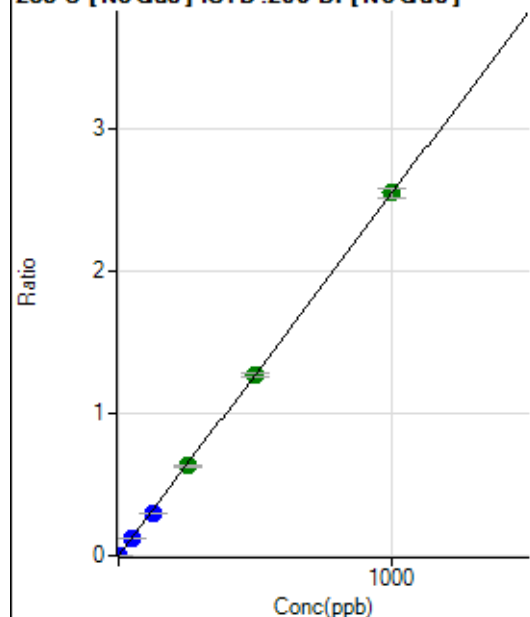
$$DL = 0.01503$$

$$BEC = 0.171$$

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	11.11	0.0000	P	115.9
2	☐	1.000	0.848	8152.87	0.0022	P	0.4
3	☐	50.000	47.183	455787.90	0.1200	P	3.2
4	☐	125.000	117.443	1185479.74	0.2986	P	2.5
5	☐	250.000	247.445	2557713.90	0.6291	A	1.5
6	☐	500.000	499.974	5306095.61	1.2710	A	1.7
7	☐	1000.000	1001.737	10949704.59	2.5466	A	2.7
8	☐			3795.16	0.0010	P	23.8

$$y = 0.0025 * x + 3.0349E-006$$

$$R = 1.0000$$

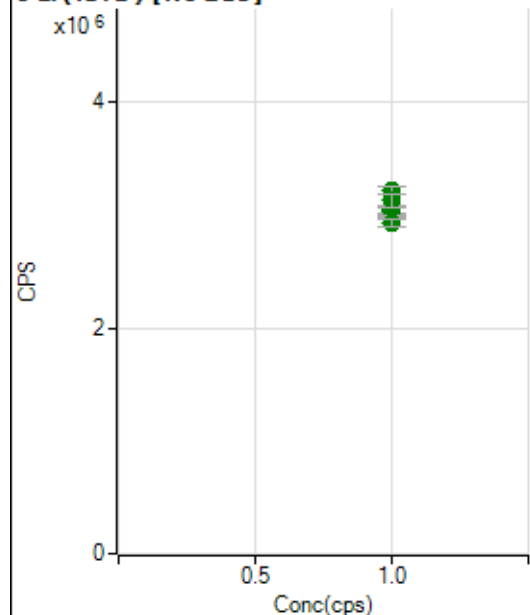
$$DL = 0.004152$$

$$BEC = 0.001194$$

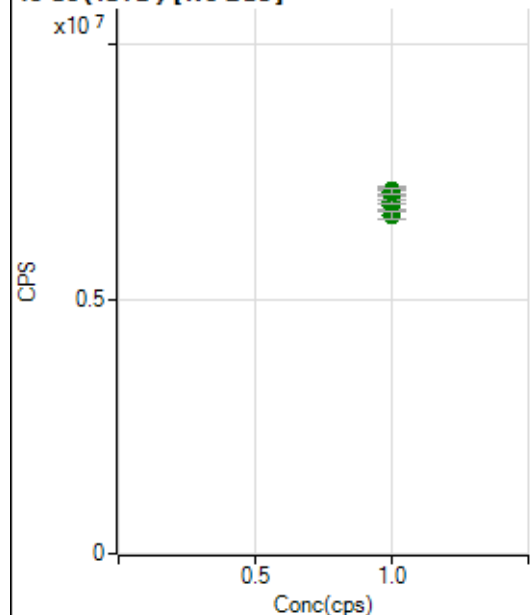
Weight: <None>

Min Conc: 0

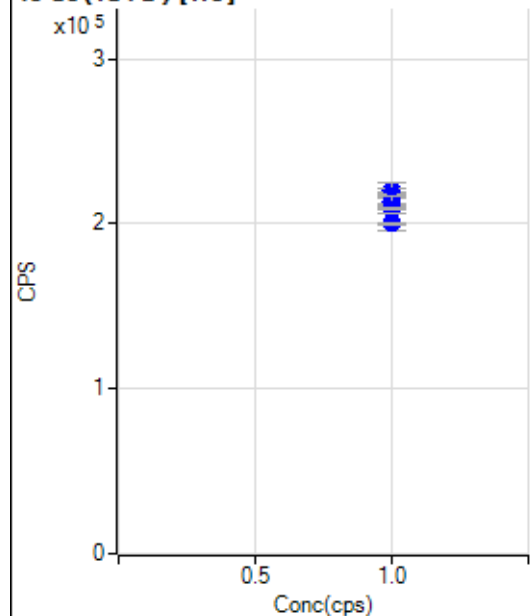
6 Li (ISTD) [No Gas]



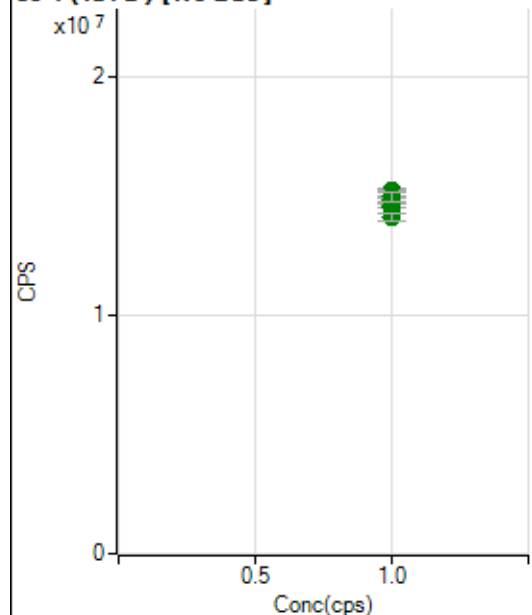
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2973148.60		A	0.9
2	☐	1.000		3047949.45		A	2.2
3	☐	1.000		3032351.48		A	1.9
4	☐	1.000		3037394.34		A	2.6
5	☐	1.000		3079448.09		A	0.5
6	☐	1.000		3213010.18		A	2.2
7	☐	1.000		3126141.27		A	3.7
8	☐	1.000		2927446.55		A	2.7

45 Sc (ISTD) [No Gas]

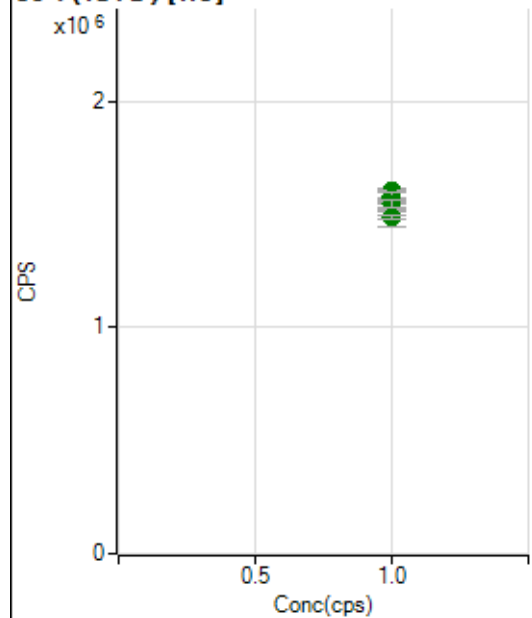
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6851479.34		A	2.8
2	☐	1.000		6819161.91		A	1.6
3	☐	1.000		6956706.70		A	2.4
4	☐	1.000		6919014.20		A	1.1
5	☐	1.000		7126905.73		A	3.0
6	☐	1.000		7096880.73		A	1.7
7	☐	1.000		7119018.23		A	1.2
8	☐	1.000		6645220.39		A	2.5

45 Sc (ISTD) [He]

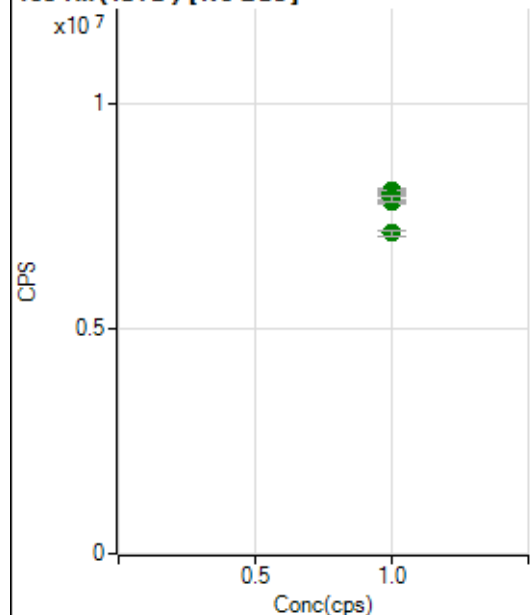
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		218968.56		P	2.4
2	☐	1.000		220002.07		P	0.9
3	☐	1.000		218371.52		P	6.1
4	☐	1.000		216708.52		P	0.8
5	☐	1.000		213842.68		P	3.0
6	☐	1.000		209286.78		P	1.0
7	☐	1.000		201091.94		P	5.4
8	☐	1.000		200230.75		P	0.6

89 Y (ISTD) [No Gas]

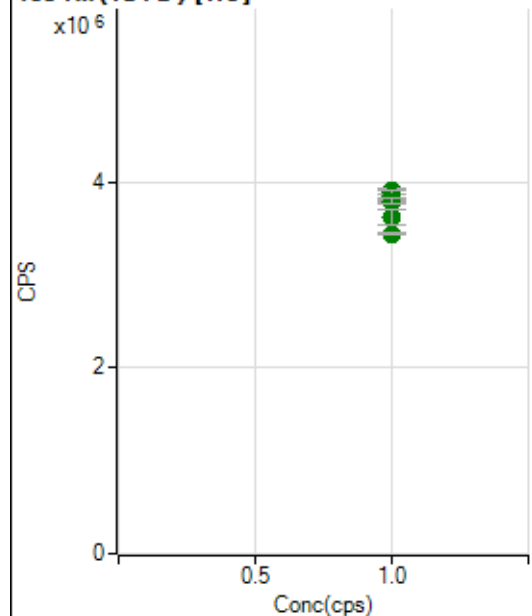
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		14634341.17		A	1.8
2	☐	1.000		14501690.62		A	3.1
3	☐	1.000		14843021.03		A	1.5
4	☐	1.000		15137981.58		A	2.8
5	☐	1.000		14995188.67		A	0.4
6	☐	1.000		15227058.52		A	0.7
7	☐	1.000		14984827.00		A	2.6
8	☐	1.000		14115794.10		A	2.6

89 Y (ISTD) [He]

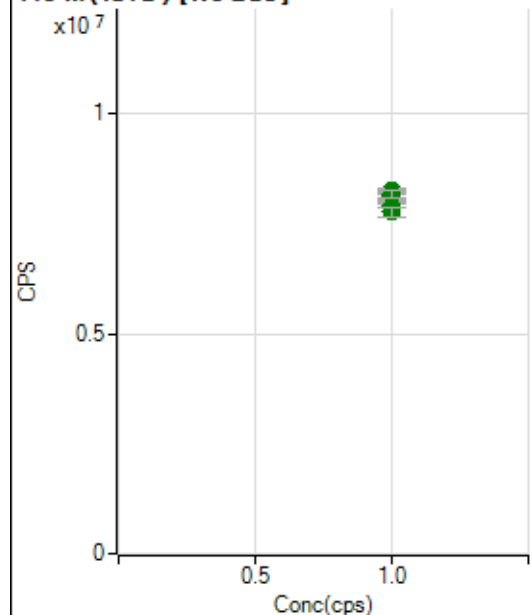
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1581052.65		A	1.7
2	☐	1.000		1574784.56		A	2.6
3	☐	1.000		1562863.40		A	6.0
4	☐	1.000		1602792.96		A	0.4
5	☐	1.000		1570341.31		A	3.2
6	☐	1.000		1547412.70		A	1.8
7	☐	1.000		1484297.58		A	5.1
8	☐	1.000		1484144.75		A	1.0

103 Rh (ISTD) [No Gas]

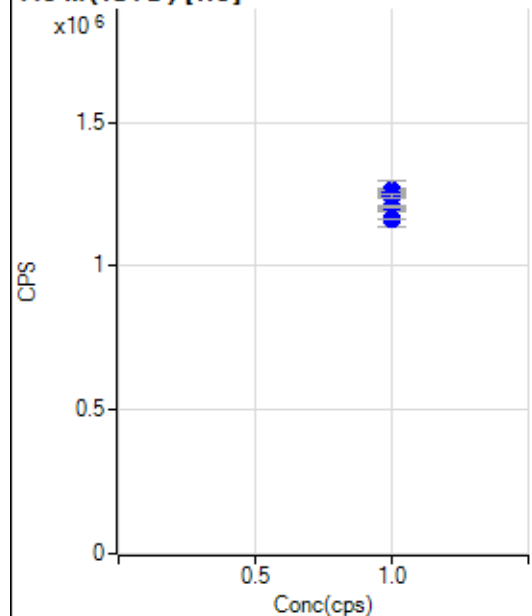
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7817260.25		A	1.0
2	☐	1.000		7911208.42		A	1.2
3	☐	1.000		8021314.16		A	0.7
4	☐	1.000		8049800.35		A	1.1
5	☐	1.000		7976288.11		A	0.7
6	☐	1.000		8005596.19		A	1.7
7	☐	1.000		7875242.71		A	1.8
8	☐	1.000		7116045.38		A	1.8

103 Rh (ISTD) [He]

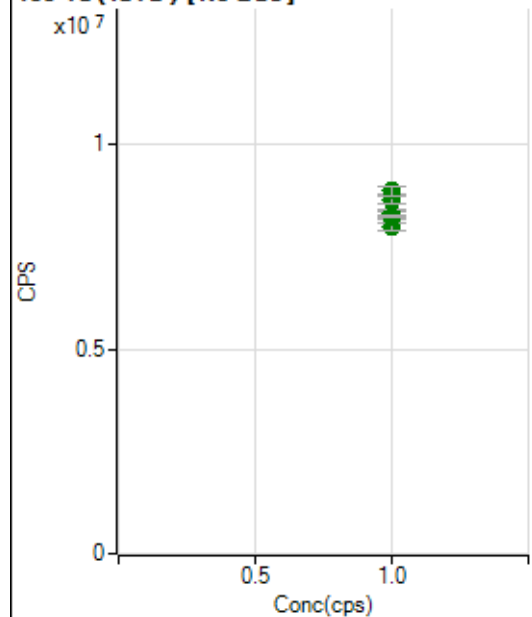
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3907145.25		A	1.7
2	☐	1.000		3892116.23		A	2.7
3	☐	1.000		3804152.97		A	5.6
4	☐	1.000		3861877.20		A	2.7
5	☐	1.000		3852857.44		A	3.3
6	☐	1.000		3799806.43		A	1.5
7	☐	1.000		3621686.23		A	5.0
8	☐	1.000		3446389.81		A	0.6

115 In (ISTD) [No Gas]

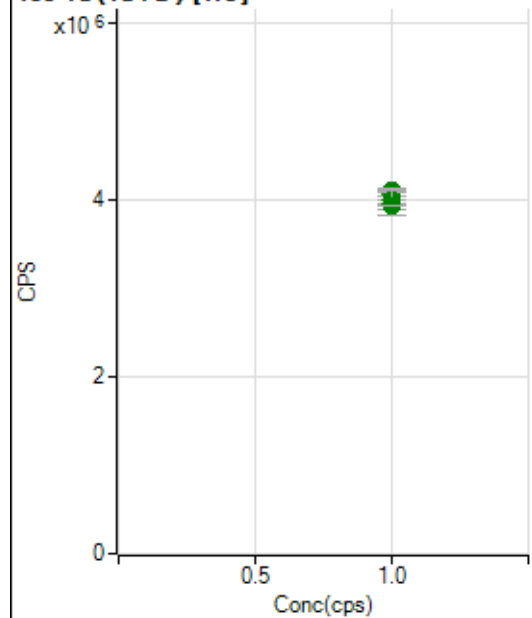
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7928441.76		A	0.9
2	☐	1.000		8119624.82		A	2.0
3	☐	1.000		8045856.43		A	0.7
4	☐	1.000		8149566.82		A	1.8
5	☐	1.000		8125571.83		A	1.6
6	☐	1.000		8250685.34		A	1.0
7	☐	1.000		8173969.06		A	2.3
8	☐	1.000		7763984.59		A	2.6

115 In (ISTD) [He]

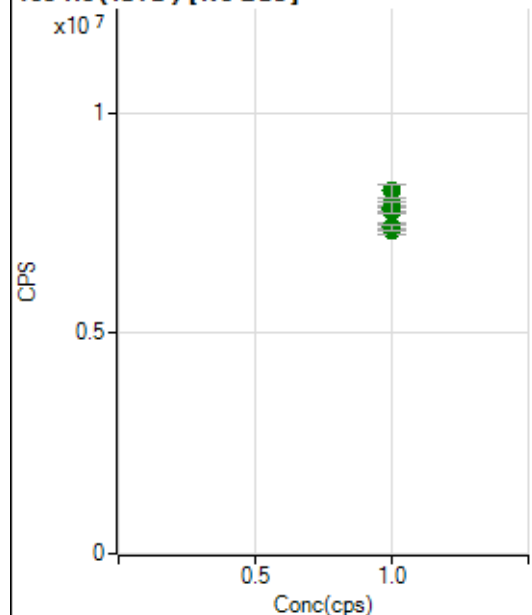
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1261609.51		P	1.9
2	☐	1.000		1255222.89		P	0.8
3	☐	1.000		1249622.36		M	7.9
4	☐	1.000		1254803.21		P	1.8
5	☐	1.000		1242981.13		P	0.9
6	☐	1.000		1204839.44		P	0.4
7	☐	1.000		1165049.99		P	4.4
8	☐	1.000		1160831.94		P	0.1

159 Tb (ISTD) [No Gas]

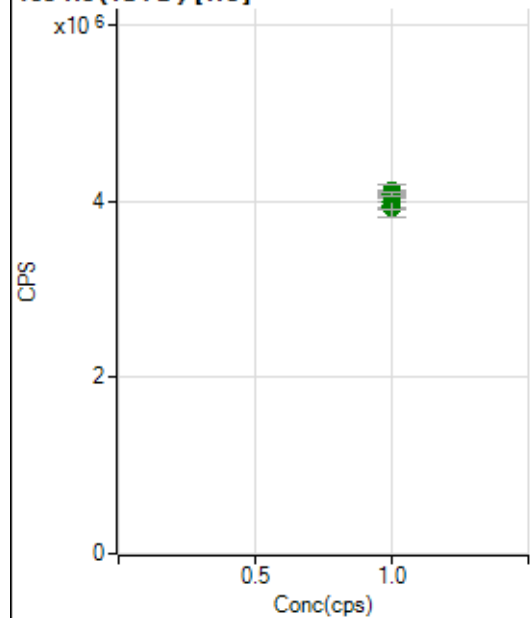
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8004335.64		A	2.4
2	☐	1.000		8200039.46		A	0.9
3	☐	1.000		8000310.23		A	2.0
4	☐	1.000		8230792.03		A	3.4
5	☐	1.000		8334769.67		A	1.8
6	☐	1.000		8673018.76		A	2.8
7	☐	1.000		8872234.03		A	2.9
8	☐	1.000		8232883.35		A	0.6

159 Tb (ISTD) [He]

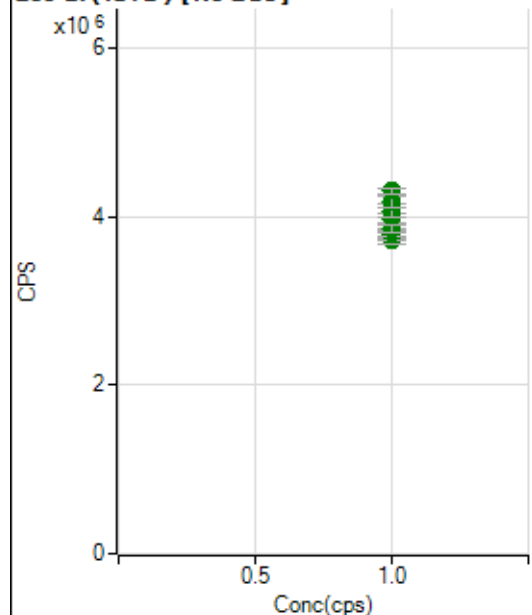
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3995498.48		A	2.2
2	☐	1.000		4004695.70		A	2.1
3	☐	1.000		3944822.23		A	6.6
4	☐	1.000		4062598.45		A	3.2
5	☐	1.000		4079295.87		A	1.4
6	☐	1.000		4098371.78		A	0.9
7	☐	1.000		3995632.33		A	5.6
8	☐	1.000		3929913.20		A	0.3

165 Ho (ISTD) [No Gas]

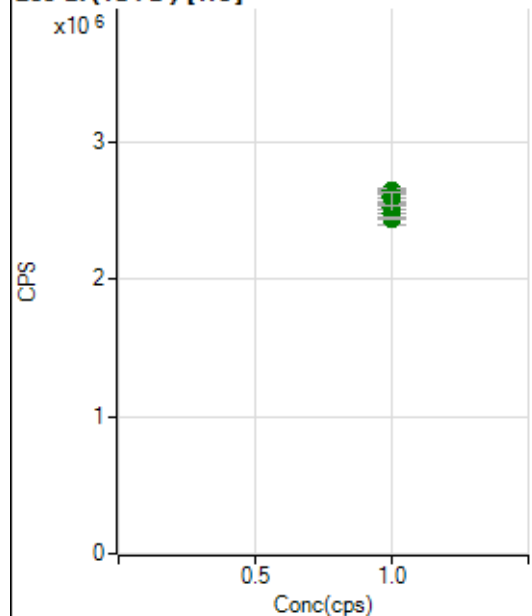
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7432824.47		A	1.7
2	☐	1.000		7315615.44		A	2.2
3	☐	1.000		7406621.43		A	1.4
4	☐	1.000		7775504.08		A	1.7
5	☐	1.000		7834796.01		A	1.1
6	☐	1.000		8000227.09		A	2.2
7	☐	1.000		8237714.16		A	3.4
8	☐	1.000		7864556.51		A	3.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3953422.96		A	2.6
2	☐	1.000		3955270.12		A	1.7
3	☐	1.000		3937506.61		A	6.4
4	☐	1.000		4117764.87		A	3.3
5	☐	1.000		4060829.18		A	0.4
6	☐	1.000		4086092.23		A	2.3
7	☐	1.000		3992293.38		A	4.6
8	☐	1.000		4083253.76		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3709554.01		A	1.9
2	☐	1.000		3774337.93		A	2.8
3	☐	1.000		3801882.76		A	2.7
4	☐	1.000		3971412.72		A	3.0
5	☐	1.000		4065220.32		A	3.5
6	☐	1.000		4173595.18		A	3.3
7	☐	1.000		4300465.77		A	1.3
8	☐	1.000		3856106.02		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2523290.38		A	3.1
2	☐	1.000		2528859.32		A	1.2
3	☐	1.000		2472912.26		A	6.5
4	☐	1.000		2639153.66		A	0.9
5	☐	1.000		2642025.57		A	1.3
6	☐	1.000		2607862.56		A	1.6
7	☐	1.000		2584060.15		A	4.2
8	☐	1.000		2436949.69		A	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8112421MS.b
Acq. Date-Time 2021-11-24 10:39:48
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		7782	77824.80			1.186	5.000
24		87127	871268.38			1.881	5.000
25		12105	121051.80			1.229	5.000
26		13815	138151.81			1.034	5.000
59		20447	204468.99			1.106	5.000
113		7495	74954.94			0.860	5.000
115		24738	247379.73			1.097	5.000
206		6952	69516.13			1.282	5.000
207		5773	57731.29			1.449	5.000
208		14183	141830.54			1.586	5.000
220		1	10.10			21.692	

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

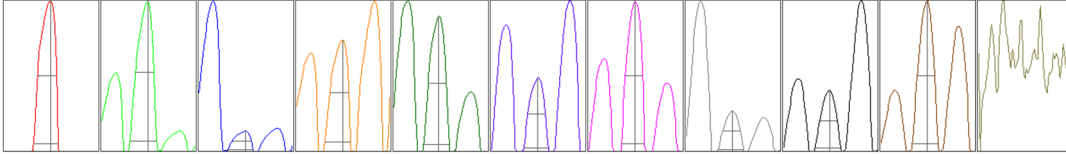
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7716	7857	7735	7905	7699
24	85559	88864	87350	88534	85328
25	11966	12310	12138	12160	11952
26	13739	14049	13717	13856	13715
59	20269	20751	20397	20603	20215
113	7419	7569	7456	7555	7479
115	24575	24959	24765	25023	24368
206	6877	7006	6893	7083	6900
207	5672	5725	5778	5896	5795
208	13857	14233	14112	14475	14238

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	13697.78	9.00	8.90 - 9.10	
24	157517.34	24.00	23.90 - 24.10	
25	20676.02	25.00	24.90 - 25.10	
26	23402.19	26.00	25.90 - 26.10	
59	37181.07	58.95	58.90 - 59.10	
113	14256.26	113.00	112.90 - 113.10	
115	47569.72	115.00	114.90 - 115.10	
206	12986.59	206.00	205.90 - 206.10	
207	10810.71	207.00	206.90 - 207.10	
208	26884.48	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.778	0.900	
24	0.58	0.843	0.900	
25	0.61	0.787	0.900	
26	0.61	0.805	0.900	
59	0.58	0.813	0.900	
113	0.55	0.772	0.900	
115	0.55	0.731	0.900	
206	0.55	0.791	0.900	
207	0.55	0.818	0.900	
208	0.54	0.816	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.6 V	Deflect	15.4 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.1 mV	Analog HV	2265 V	Pulse HV	1573 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4687	46867.95			1.394	
89		15477	154767.86			0.704	
205		18080	180800.46			1.291	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4743	4716	4575	4712	4687
89	15551	15588	15329	15399	15518
205	18160	18417	17879	18102	17842

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.6 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.04		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.7 mm		
EM					
Discriminator	4.1 mV	Analog HV	2265 V	Pulse HV	1573 V