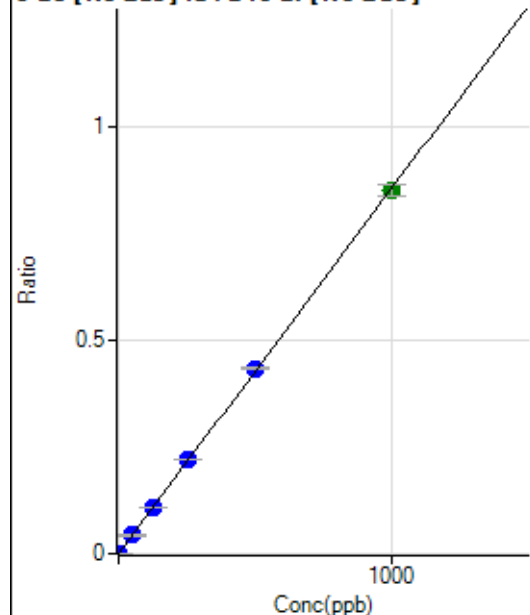


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8101023 MS.b\
Analysis File: P8101023 MS.batch.bin
DA Date-Time: 2023-10-10 17:09:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-10-10 14:13:47
2	005CALS.d	S02	2023-10-10 14:17:12
3	006CALS.d	S03	2023-10-10 14:20:39
4	007CALS.d	S04	2023-10-10 14:23:52
5	008CALS.d	S05	2023-10-10 14:26:58
6	009CALS.d	S06	2023-10-10 14:30:00
7	010CALS.d	S07	2023-10-10 14:33:04
8	011CALS.d	S08	2023-10-10 14:36:05

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	39.99	0.0000	P	26.5
2	☐	1.000	0.910	1587.39	0.0008	P	3.9
3	☐	50.000	50.082	87079.56	0.0428	P	2.7
4	☐	125.000	127.093	212007.05	0.1086	P	1.6
5	☐	250.000	256.775	401575.42	0.2195	P	0.6
6	☐	500.000	508.162	759199.42	0.4344	P	0.5
7	☐	1000.000	993.960	1451811.90	0.8496	A	3.1
8	☐			207.06	0.0001	P	15.0

$$y = 8.5472\text{E-}004 * x + 2.0074\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01865$$

$$BEC = 0.02349$$

Weight: <None>

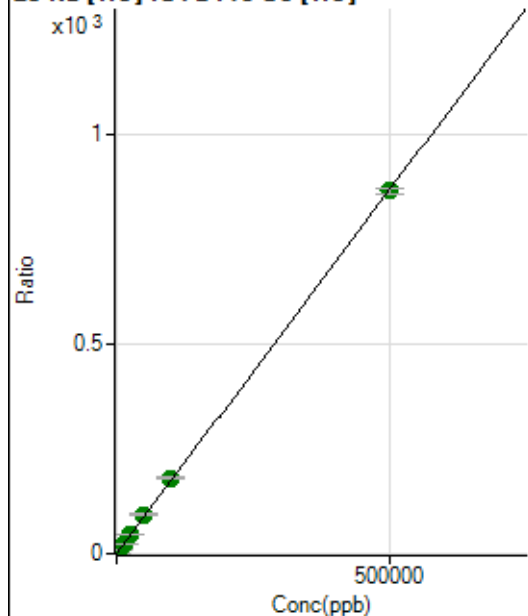
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2040316.57		A	0.9
2	☐			2048760.44		A	1.8
3	☐			2243594.64		A	2.1
4	☐			2350700.05		A	0.8
5	☐			2351682.95		A	0.8
6	☐			2834264.37		A	4.8
7	☐			2584449.93		A	3.0
8	☐			2380662.50		A	2.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27047.18		P	1.0
2	☐			27292.11		P	0.9
3	☐			30361.41		P	2.8
4	☐			32522.66		P	0.6
5	☐			32454.77		P	0.8
6	☐			41520.87		P	1.0
7	☐			37991.27		P	0.6
8	☐			37850.97		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33402.59	0.1789	P	0.9
2	☐	500.000	454.272	184256.43	0.9688	P	0.7
3	☐	5000.000	5608.227	1830392.42	9.9312	A	1.5
4	☐	12500.000	13708.762	4370891.11	24.0175	A	2.0
5	☐	25000.000	27148.067	8356390.57	47.3875	A	1.0
6	☐	50000.000	53876.144	15775303.10	93.8658	A	2.9
7	☐	100000.00	104147.33	31192503.15	181.2840	A	0.4
8	☐	500000.00	498639.26	155678098.7	867.2787	A	1.6

$$y = 0.0017 * x + 0.1789$$

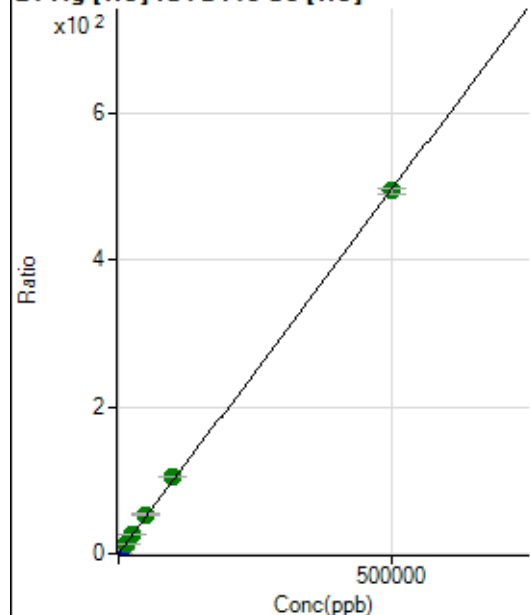
$$R = 0.9999$$

$$DL = 2.643$$

$$BEC = 102.9$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.78	0.0008	P	19.8
2	☐	500.000	447.339	84367.96	0.4436	P	0.7
3	☐	5000.000	5526.103	1008275.08	5.4709	P	0.6
4	☐	12500.000	14011.286	2524364.68	13.8701	A	1.0
5	☐	25000.000	27616.862	4820901.59	27.3378	A	0.2
6	☐	50000.000	53687.955	8930931.81	53.1447	A	3.4
7	☐	100000.00	105107.41	17901877.09	104.0430	A	1.1
8	☐	500000.00	498435.88	88562918.68	493.3854	A	1.6

$$y = 9.8987\text{E-}004 * x + 7.9010\text{E-}004$$

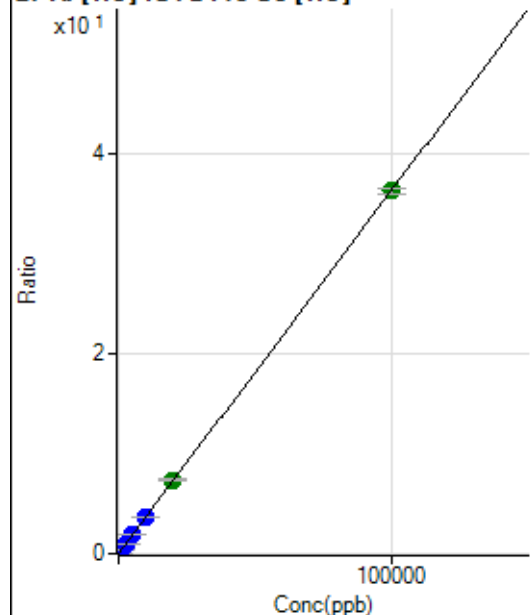
$$R = 0.9999$$

$$DL = 0.4733$$

$$BEC = 0.7982$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.78	0.0008	P	23.7
2	☐	20.000	22.381	1695.67	0.0089	P	1.9
3	☐	1000.000	1072.097	71856.54	0.3899	P	1.7
4	☐	2500.000	2582.346	170727.13	0.9380	P	0.6
5	☐	5000.000	5154.599	330058.67	1.8716	P	0.4
6	☐	10000.000	10153.441	619523.43	3.6859	P	2.3
7	☐	20000.000	20377.886	1272747.96	7.3968	A	0.4
8	☐	100000.00	99898.569	6508600.32	36.2583	A	1.3

$$y = 3.6294\text{E-}004 * x + 7.9225\text{E-}004$$

$$R = 1.0000$$

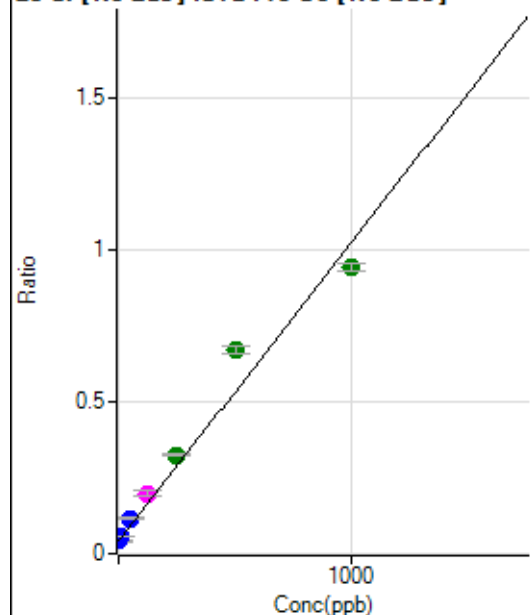
$$DL = 1.554$$

$$BEC = 2.183$$

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	199004.96	0.0413	P	0.4
2	☐	10.000	15.572	270331.33	0.0566	P	0.9
3	☐	50.000	76.955	563058.16	0.1172	P	1.7
4	☐	125.000	159.591	954307.13	0.1988	M	8.3
5	☐	250.000	287.892	1520283.14	0.3254	A	2.8
6	☐	500.000	638.888	3053947.25	0.6719	A	4.0
7	☐	1000.000	915.356	4141886.36	0.9448	A	2.1
8	☐			390292.46	0.0902	P	1.3

$$y = 9.8715\text{E-}004 * x + 0.0413$$

$$R = 0.9837$$

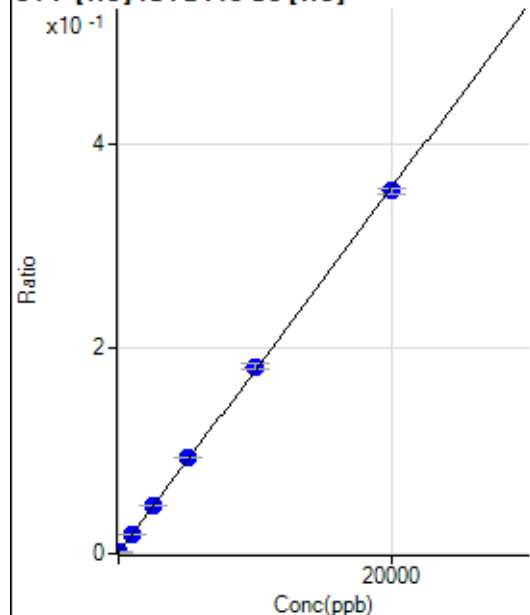
$$DL = 0.5559$$

$$BEC = 41.79$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-10.678	120.00	0.0006	P	17.5
2	☐	0.000	10.678	194.45	0.0010	P	16.7
3	☐	1000.000	1033.991	3544.91	0.0192	P	1.7
4	☐	2500.000	2616.966	8628.20	0.0474	P	1.6
5	☐	5000.000	5208.086	16490.57	0.0935	P	0.9
6	☐	10000.000	10204.036	30660.29	0.1824	P	2.9
7	☐	20000.000	19829.640	60863.95	0.3537	P	1.6
8	☐			142.23	0.0008	P	6.8

$$y = 1.7796\text{E-}005 * x + 8.3211\text{E-}004$$

$$R = 0.9999$$

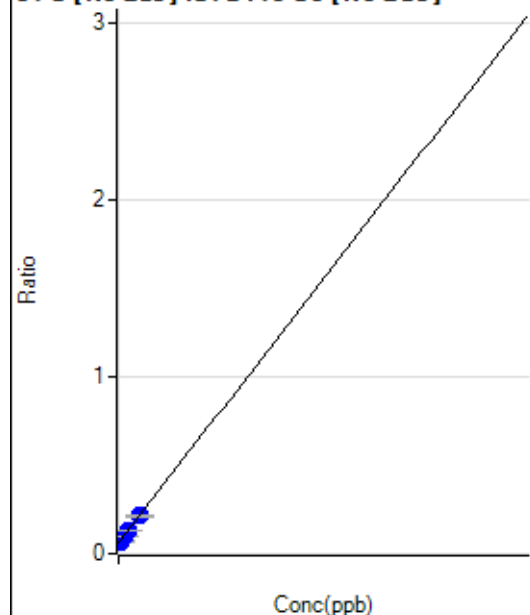
$$DL = 23.86$$

$$BEC = 46.76$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-87.586	295080.82	0.0612	P	0.8
2	☐	0.000	87.586	298250.13	0.0625	P	0.7
3	☐	1000.000	971.541	331625.72	0.0690	P	1.5
4	☐	2500.000	2353.288	380591.14	0.0793	P	1.1
5	☐	5000.000	4705.254	452234.57	0.0968	P	0.8
6	☐	10000.000	9647.469	606978.64	0.1335	P	2.2
7	☐	20000.000	20269.714	931672.69	0.2125	P	1.7
8	☐			238109.85	0.0550	P	1.2

$$y = 7.4348\text{E-}006 * x + 0.0618$$

R = 0.9996

DL = 189.1

BEC = 8315

Weight: <None>

Min Conc: 0

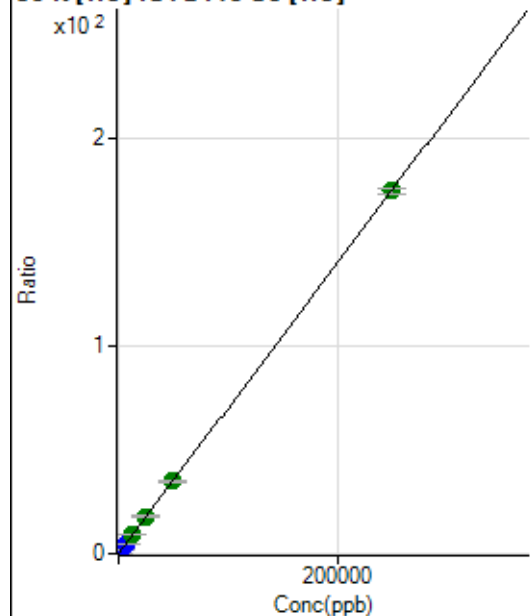
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60819.31		P	1.4
2	☐			58898.09		P	0.4
3	☐			96145.10		P	0.7
4	☐			96934.95		P	0.8
5	☐			96249.34		P	1.0
6	☐			87624.13		P	1.2
7	☐			99280.82		P	1.4
8	☐			85788.81		P	1.0

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			517.79		P	10.1
2	☐			501.13		P	3.4
3	☐			797.81		P	1.7
4	☐			851.14		P	2.5
5	☐			826.70		P	2.9
6	☐			737.80		P	4.6
7	☐			946.71		P	2.9
8	☐			873.37		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10292.64	0.0551	P	2.4
2	☐	500.000	426.357	67086.07	0.3527	P	0.2
3	☐	2500.000	2575.355	341450.18	1.8528	P	1.9
4	☐	6250.000	6360.238	818091.00	4.4948	P	0.8
5	☐	12500.000	13138.098	1626985.04	9.2261	A	0.1
6	☐	25000.000	25507.026	3001317.84	17.8601	A	3.3
7	☐	50000.000	49760.984	5986166.44	34.7904	A	0.7
8	☐	250000.00	249961.83	31331583.42	174.5390	A	1.3

$$y = 6.9804\text{E-}004 * x + 0.0551$$

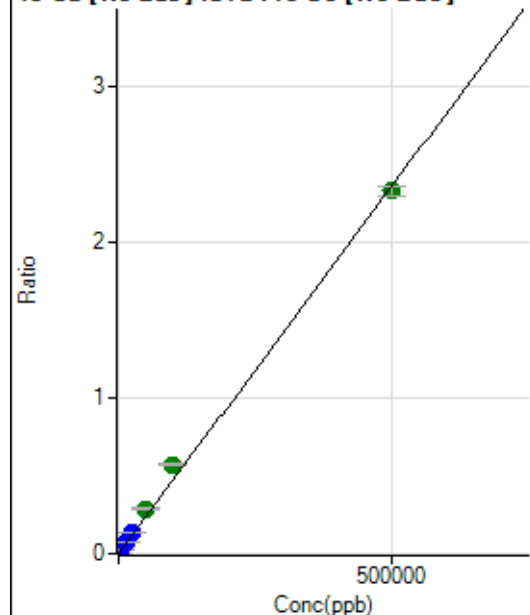
$$R = 1.0000$$

$$DL = 5.696$$

$$BEC = 78.96$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0000	P	14.5
2	☐	500.000	432.830	9901.28	0.0021	P	0.1
3	☐	5000.000	5987.331	135689.22	0.0282	P	0.4
4	☐	12500.000	14947.062	338133.42	0.0705	P	1.5
5	☐	25000.000	29544.908	650585.96	0.1393	P	0.4
6	☐	50000.000	60992.119	1306463.29	0.2875	A	2.2
7	☐	100000.00	121775.57	2516247.90	0.5739	A	0.9
8	☐	500000.00	494247.44	10073349.37	2.3291	A	3.0

$$y = 4.7124\text{E-}006 * x + 3.4082\text{E-}005$$

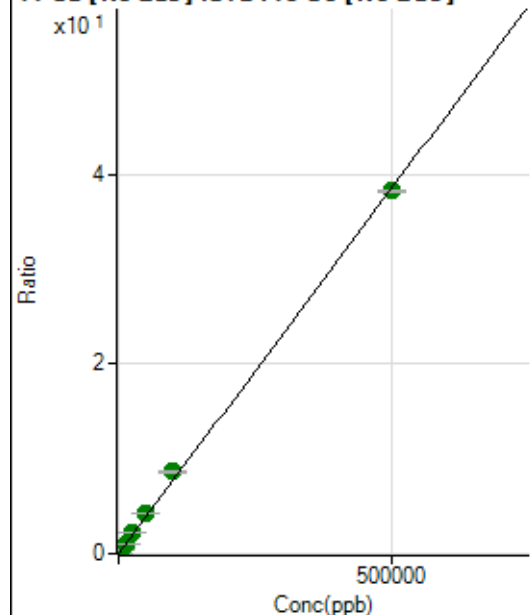
$$R = 0.9988$$

$$DL = 3.144$$

$$BEC = 7.232$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35757.94	0.0074	P	1.9
2	☐	500.000	435.734	195652.03	0.0410	P	0.9
3	☐	5000.000	5846.839	2199151.36	0.4578	A	0.6
4	☐	12500.000	14341.922	5337868.05	1.1123	A	0.4
5	☐	25000.000	28416.828	10261692.56	2.1966	A	0.5
6	☐	50000.000	54997.241	19293238.74	4.2443	A	1.1
7	☐	100000.00	112226.31	37938542.49	8.6531	A	0.8
8	☐	500000.00	496829.72	165624601.9	38.2822	A	0.8

$$y = 7.7038\text{E-}005 * x + 0.0074$$

$$R = 0.9997$$

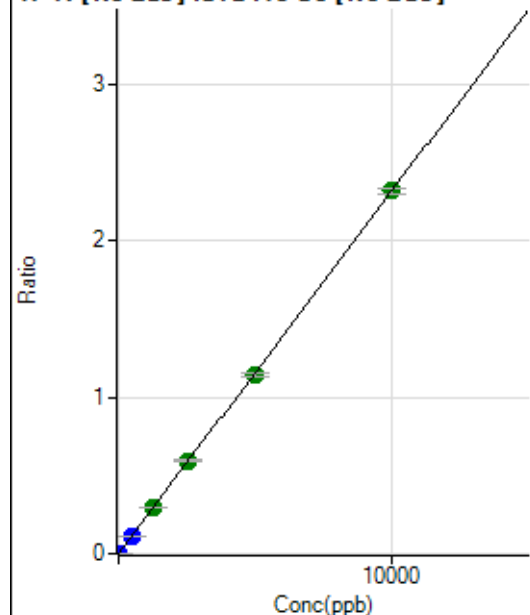
$$DL = 5.489$$

$$BEC = 96.22$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	95.56	0.0000	P	33.9
2	☐	5.000	4.455	5017.60	0.0011	P	0.8
3	☐	500.000	498.380	554175.65	0.1154	P	0.3
4	☐	1250.000	1268.982	1409450.07	0.2937	A	1.7
5	☐	2500.000	2569.344	2778290.83	0.5947	A	1.3
6	☐	5000.000	4932.136	5189117.98	1.1416	A	2.6
7	☐	10000.000	10014.304	10161558.46	2.3179	A	1.7
8	☐			1855.84	0.0004	P	22.7

$$y = 2.3146\text{E-}004 * x + 1.9786\text{E-}005$$

$$R = 0.9999$$

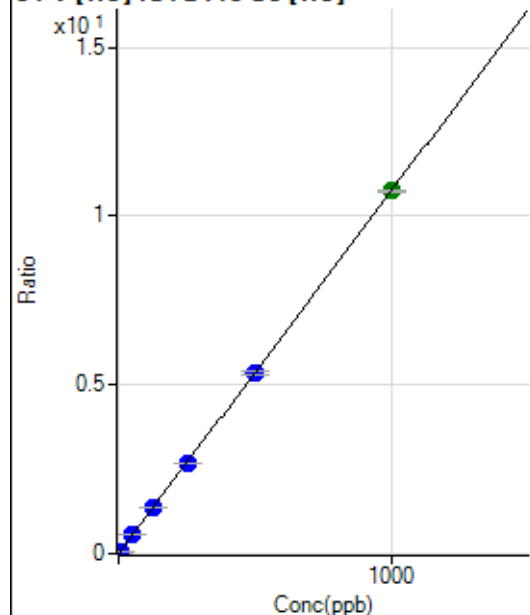
$$DL = 0.08684$$

$$BEC = 0.08548$$

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	23.33	0.0001	P	14.7
2	☐	5.000	4.174	8554.84	0.0450	P	1.3
3	☐	50.000	50.550	100128.59	0.5433	P	0.9
4	☐	125.000	125.583	245621.02	1.3496	P	0.8
5	☐	250.000	251.238	476091.78	2.6998	P	0.2
6	☐	500.000	500.071	903180.06	5.3736	P	2.3
7	☐	1000.000	999.559	1848106.90	10.7407	A	0.8
8	☐			755.83	0.0042	P	59.6

$$y = 0.0107 * x + 1.2500\text{E-}004$$

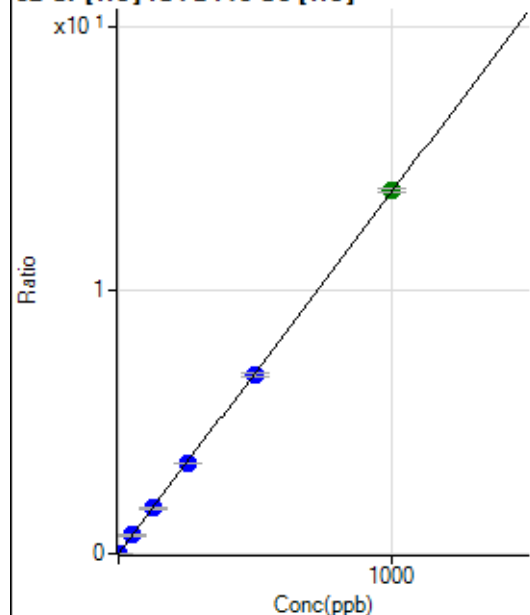
$$R = 1.0000$$

$$DL = 0.005138$$

$$BEC = 0.01163$$

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	1724.57	0.0092	P	3.3
2	☐	2.000	1.723	6246.98	0.0328	P	1.7
3	☐	50.000	49.951	127851.83	0.6938	P	1.6
4	☐	125.000	124.709	312708.53	1.7182	P	1.6
5	☐	250.000	249.513	604616.58	3.4285	P	0.9
6	☐	500.000	493.501	1138502.91	6.7720	P	1.5
7	☐	1000.000	1003.411	2367481.84	13.7597	A	1.2
8	☐			7830.18	0.0436	P	8.1

$$y = 0.0137 * x + 0.0092$$

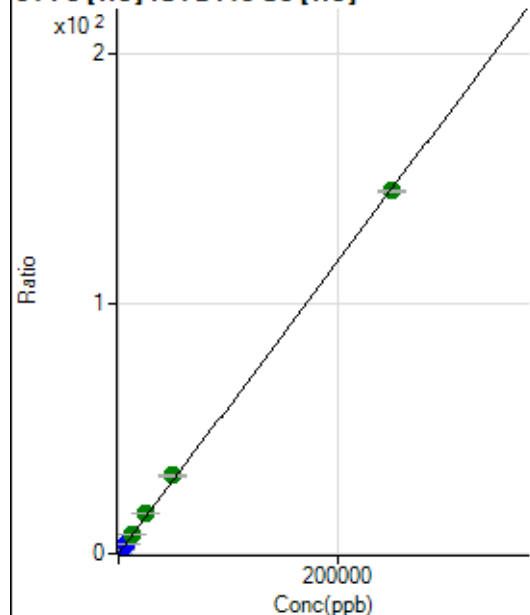
$$R = 1.0000$$

$$DL = 0.06606$$

$$BEC = 0.674$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	466.68	0.0025	P	7.5
2	☐	50.000	46.103	5585.58	0.0294	P	2.5
3	☐	2500.000	2716.981	292281.87	1.5860	P	1.5
4	☐	6250.000	6802.373	721970.34	3.9670	P	1.5
5	☐	12500.000	13710.802	1409637.62	7.9933	A	1.5
6	☐	25000.000	27441.750	2688899.77	15.9958	A	1.7
7	☐	50000.000	53660.201	5381624.16	31.2762	A	1.1
8	☐	250000.00	248947.26	26045027.11	145.0916	A	0.8

$$y = 5.8281E-004 * x + 0.0025$$

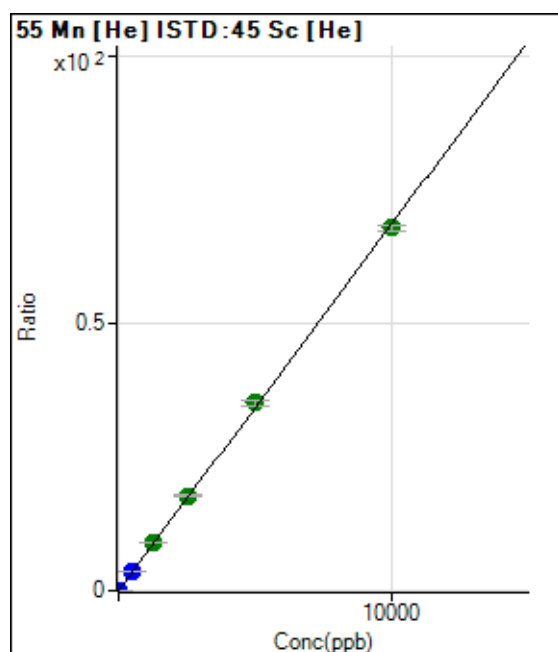
$$R = 0.9999$$

$$DL = 0.9638$$

$$BEC = 4.29$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	112.23	0.0006	P	18.7
2	☐	1.000	0.864	1241.17	0.0065	P	4.6
3	☐	500.000	507.374	641445.55	3.4803	P	0.3
4	☐	1250.000	1310.391	1635629.89	8.9877	A	2.2
5	☐	2500.000	2589.522	3132072.35	17.7604	A	1.3
6	☐	5000.000	5137.862	5921701.44	35.2378	A	3.0
7	☐	10000.000	9900.771	11683835.24	67.9034	A	1.4
8	☐			6996.39	0.0390	P	21.9

$$y = 0.0069 * x + 5.9993E-004$$

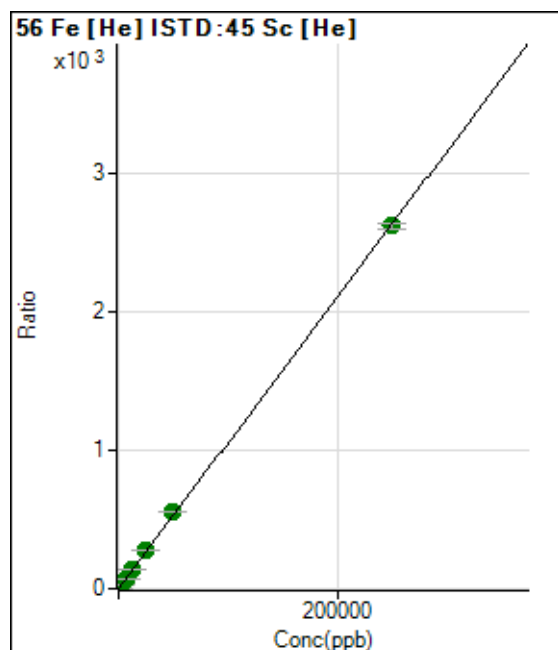
$$R = 0.9998$$

$$DL = 0.04899$$

$$BEC = 0.08748$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4405.16	0.0236	P	3.3
2	☐	50.000	45.979	96583.48	0.5078	P	1.0
3	☐	2500.000	2754.946	5351886.52	29.0380	A	1.3
4	☐	6250.000	6781.060	13002103.70	71.4401	A	0.9
5	☐	12500.000	13410.499	24911395.19	141.2598	A	0.9
6	☐	25000.000	26493.646	46911216.52	279.0485	A	2.0
7	☐	50000.000	52597.941	95320164.14	553.9729	A	0.6
8	☐	250000.00	249269.69	471263766.3	2,625.274	A	1.4

$$y = 0.0105 * x + 0.0236$$

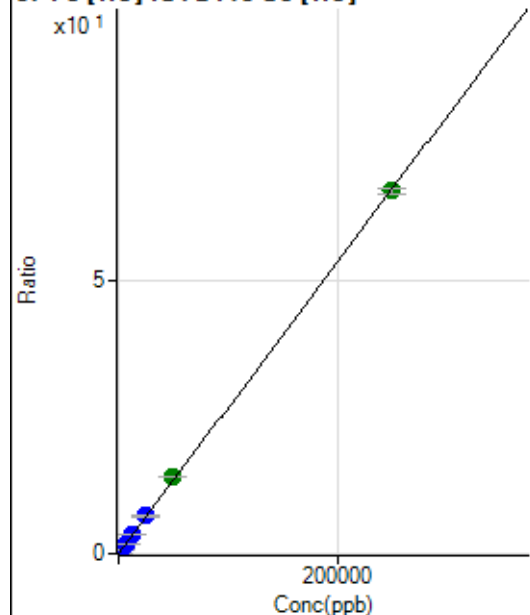
$$R = 0.9999$$

$$DL = 0.2213$$

$$BEC = 2.24$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.11	0.0008	P	19.7
2	☐	50.000	47.679	2563.59	0.0135	P	2.3
3	☐	2500.000	2646.776	130313.08	0.7071	P	0.8
4	☐	6250.000	6615.245	321442.07	1.7661	P	0.9
5	☐	12500.000	13199.205	621282.04	3.5231	P	0.4
6	☐	25000.000	25852.469	1159983.37	6.8998	P	1.6
7	☐	50000.000	52831.468	2426045.15	14.0994	A	0.6
8	☐	250000.00	249302.90	11943145.10	66.5301	A	1.3

$$y = 2.6686\text{E-}004 * x + 7.5519\text{E-}004$$

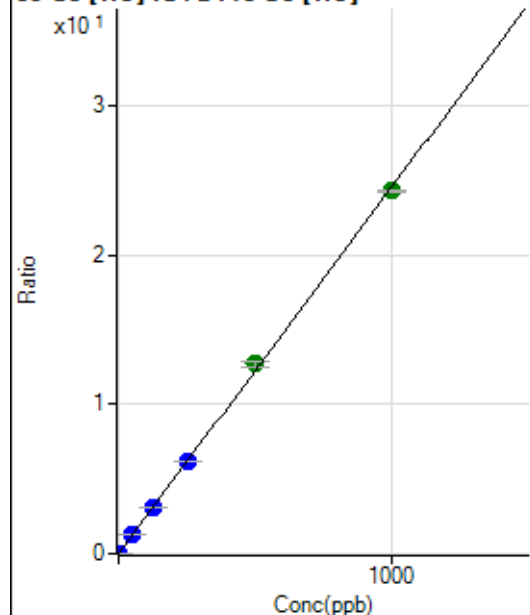
$$R = 0.9999$$

$$DL = 1.676$$

$$BEC = 2.83$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.11	0.0005	P	11.0
2	☐	1.000	0.860	4112.85	0.0216	P	3.3
3	☐	50.000	50.370	228241.49	1.2385	P	1.0
4	☐	125.000	125.417	561077.05	3.0829	P	1.3
5	☐	250.000	252.412	1094068.17	6.2041	P	0.1
6	☐	500.000	517.721	2138276.48	12.7247	A	3.2
7	☐	1000.000	990.466	4188748.69	24.3434	A	0.7
8	☐			10828.72	0.0603	P	3.3

$$y = 0.0246 * x + 4.8778\text{E-}004$$

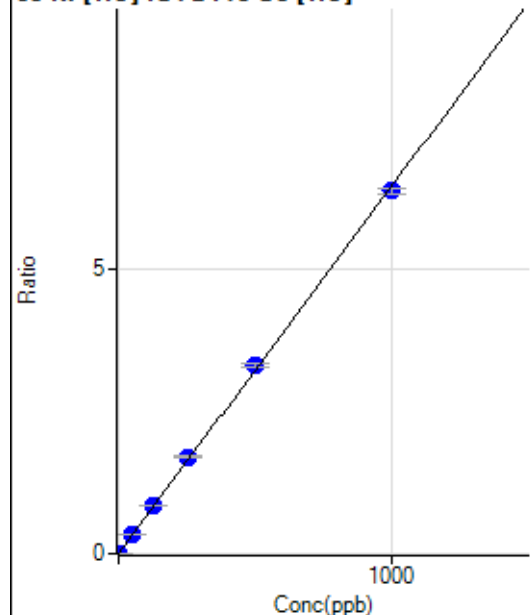
$$R = 0.9998$$

$$DL = 0.006524$$

$$BEC = 0.01985$$

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	80.00	0.0004	P	24.0
2	☐	1.000	0.970	1273.40	0.0067	P	3.6
3	☐	50.000	53.305	63537.83	0.3448	P	1.7
4	☐	125.000	131.661	154877.75	0.8509	P	0.7
5	☐	250.000	263.763	300543.45	1.7043	P	1.0
6	☐	500.000	514.919	559203.29	3.3267	P	2.2
7	☐	1000.000	988.102	1098327.41	6.3834	P	1.4
8	☐			3368.22	0.0188	P	0.8

$$y = 0.0065 * x + 4.2882E-004$$

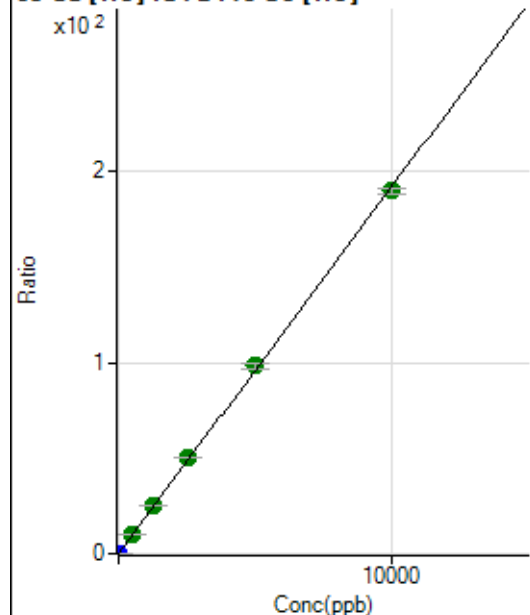
$$R = 0.9997$$

$$DL = 0.04774$$

$$BEC = 0.06638$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	561.13	0.0030	P	11.5
2	☐	2.000	1.754	6976.22	0.0367	P	2.5
3	☐	500.000	535.154	1894711.32	10.2804	A	1.0
4	☐	1250.000	1314.844	4596626.42	25.2540	A	0.4
5	☐	2500.000	2629.962	8907627.44	50.5104	A	1.2
6	☐	5000.000	5129.927	16557130.17	98.5212	A	3.0
7	☐	10000.000	9892.683	32688958.12	189.9880	A	1.4
8	☐			8419.16	0.0469	P	19.4

$$y = 0.0192 * x + 0.0030$$

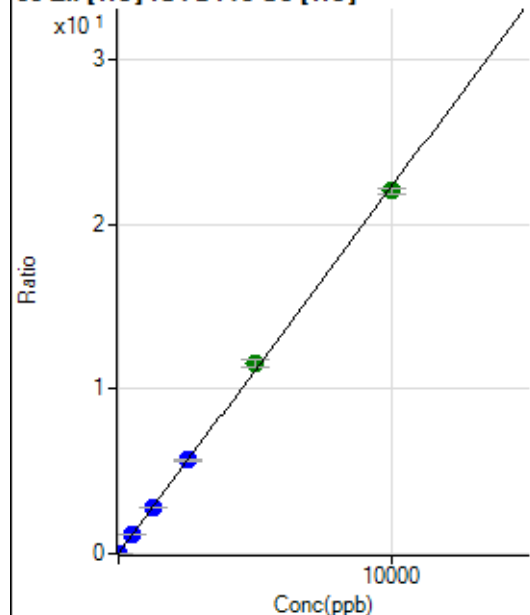
$$R = 0.9998$$

$$DL = 0.05379$$

$$BEC = 0.1563$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2277.99	0.0122	P	6.3
2	☐	2.000	1.836	3097.03	0.0163	P	0.8
3	☐	500.000	510.647	211782.82	1.1491	P	0.8
4	☐	1250.000	1272.176	517727.28	2.8446	P	0.8
5	☐	2500.000	2538.908	998974.99	5.6648	P	1.0
6	☐	5000.000	5202.864	1948398.56	11.5959	A	3.7
7	☐	10000.000	9885.536	3788962.37	22.0214	A	1.5
8	☐			5404.44	0.0301	P	2.6

$$y = 0.0022 * x + 0.0122$$

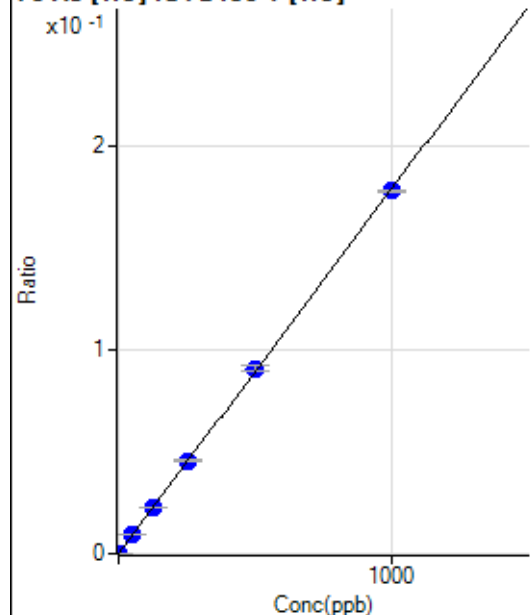
$$R = 0.9997$$

$$DL = 1.041$$

$$BEC = 5.478$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7.78	0.0000	P	49.7
2	☐	1.000	0.905	204.45	0.0002	P	19.4
3	☐	50.000	51.904	11053.32	0.0093	P	2.2
4	☐	125.000	127.685	26796.73	0.0229	P	0.2
5	☐	250.000	253.778	51900.89	0.0455	P	1.8
6	☐	500.000	507.056	100011.98	0.0908	P	2.9
7	☐	1000.000	995.097	197430.33	0.1783	P	0.3
8	☐			94.44	0.0001	P	23.1

$$y = 1.7913E-004 * x + 6.4830E-006$$

$$R = 1.0000$$

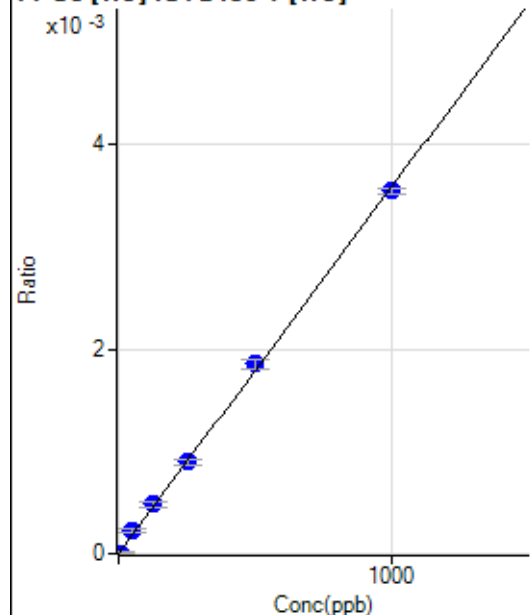
$$DL = 0.05401$$

$$BEC = 0.03619$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	2.302	11.11	0.0000	P	46.7
3	☐	50.000	60.541	258.89	0.0002	P	17.7
4	☐	125.000	135.244	568.91	0.0005	P	10.3
5	☐	250.000	250.514	1025.61	0.0009	P	7.1
6	☐	500.000	516.627	2037.95	0.0019	P	5.4
7	☐	1000.000	989.764	3928.36	0.0035	P	1.5
8	☐			21.11	0.0000	P	36.9

$$y = 3.5827E-006 * x + 9.3892E-007$$

$$R = 0.9997$$

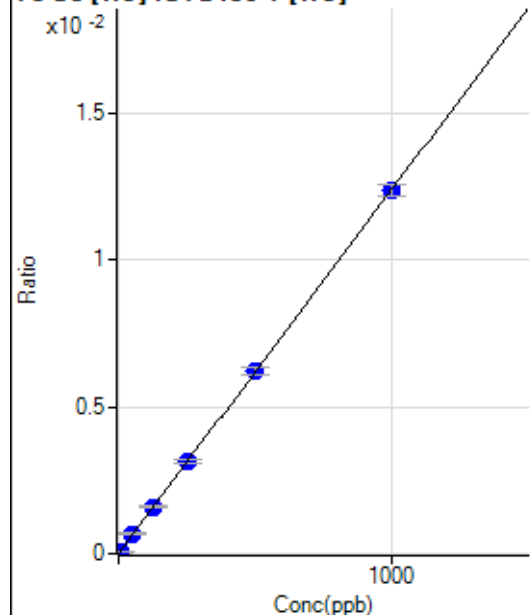
$$DL = 1.362$$

$$BEC = 0.2621$$

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	7.78	0.0000	P	98.7
2	☐	5.000	6.147	100.00	0.0001	P	9.1
3	☐	50.000	54.543	808.92	0.0007	P	1.9
4	☐	125.000	128.983	1875.70	0.0016	P	2.5
5	☐	250.000	254.012	3592.72	0.0031	P	3.3
6	☐	500.000	501.833	6840.62	0.0062	P	3.6
7	☐	1000.000	997.350	13666.75	0.0123	P	3.1
8	☐			103.33	0.0001	P	34.2

$$y = 1.2365E-005 * x + 6.4601E-006$$

$$R = 1.0000$$

$$DL = 1.547$$

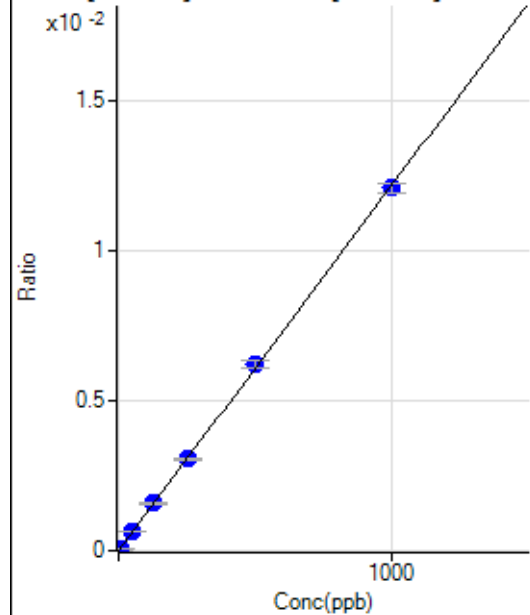
$$BEC = 0.5224$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2424.68		P	0.8
2	☐			2565.82		P	1.2
3	☐			2409.13		P	1.6
4	☐			2434.68		P	4.7
5	☐			2366.89		P	1.5
6	☐			2265.76		P	4.9
7	☐			2560.26		P	2.7
8	☐			4075.07		P	9.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-34.44	0.0000	P	-125.
2	☐	5.000	4.812	543.36	0.0001	P	18.2
3	☐	50.000	51.719	6314.91	0.0006	P	0.7
4	☐	125.000	130.214	15715.81	0.0016	P	2.5
5	☐	250.000	251.771	30462.52	0.0031	P	1.3
6	☐	500.000	509.609	60427.03	0.0062	P	4.0
7	☐	1000.000	994.016	113336.53	0.0121	P	2.4
8	☐			590.03	0.0001	P	8.3

$$y = 1.2173E-005 * x - 3.4274E-006$$

$$R = 0.9999$$

$$DL = 1.063$$

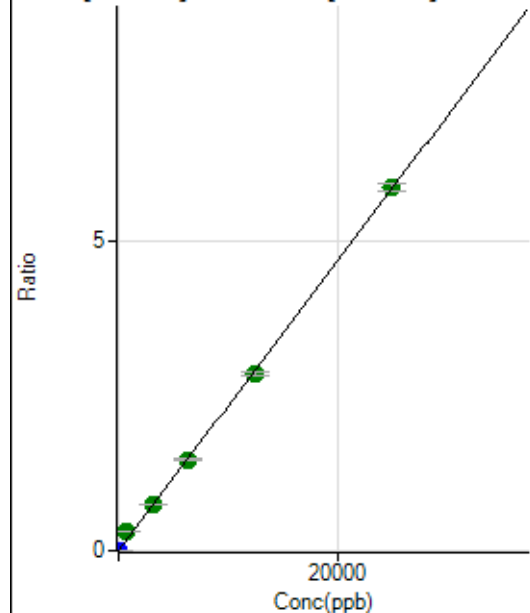
$$BEC = -0.2815$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			198.89		P	10.9
2	☐			217.78		P	5.4
3	☐			207.78		P	4.6
4	☐			185.56		P	22.2
5	☐			186.67		P	22.3
6	☐			155.56		P	10.8
7	☐			178.89		P	10.3
8	☐			174.45		P	8.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	370.01	0.0000	P	3.5
2	☐	1.000	0.851	2322.44	0.0002	P	4.3
3	☐	625.000	1281.481	3017448.95	0.2992	A	1.0
4	☐	3125.000	3200.359	7421957.04	0.7471	A	2.9
5	☐	6250.000	6293.863	14619045.75	1.4692	A	1.2
6	☐	12500.000	12241.052	27857538.20	2.8574	A	2.1
7	☐	25000.000	25092.676	54878611.40	5.8574	A	2.1
8	☐			7278.72	0.0008	P	8.5

$$y = 2.3343\text{E-}004 * x + 3.6934\text{E-}005$$

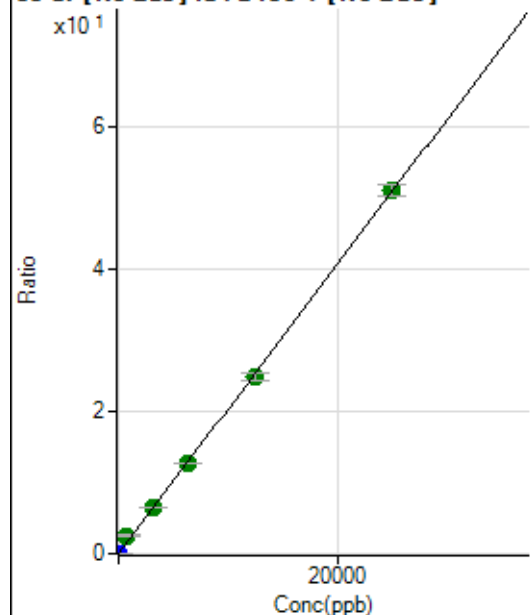
$$R = 0.9996$$

$$DL = 0.01663$$

$$BEC = 0.1582$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	717.80	0.0001	P	5.9
2	☐	1.000	0.851	17748.08	0.0018	P	1.1
3	☐	625.000	1262.360	25861961.01	2.5645	A	1.4
4	☐	3125.000	3210.570	64815506.26	6.5222	A	0.7
5	☐	6250.000	6251.813	126377657.0	12.7003	A	0.6
6	☐	12500.000	12239.563	242341236.3	24.8641	A	3.6
7	☐	25000.000	25103.135	477758797.3	50.9957	A	3.1
8	☐			60565.23	0.0066	P	8.1

$$y = 0.0020 * x + 7.1646E-005$$

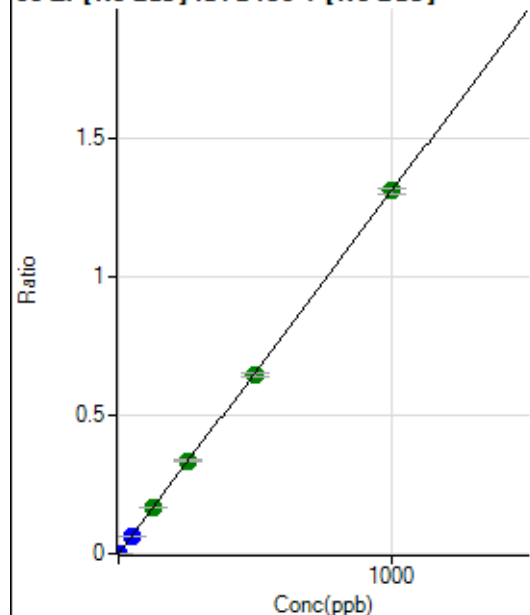
$$R = 0.9996$$

$$DL = 0.006208$$

$$BEC = 0.03527$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	435.57	0.0000	P	3.7
2	☐	1.000	0.846	11341.39	0.0012	P	1.1
3	☐	50.000	49.635	655338.97	0.0650	P	1.5
4	☐	125.000	128.456	1670760.17	0.1681	A	1.3
5	☐	250.000	256.667	3342020.75	0.3359	A	1.3
6	☐	500.000	494.938	6314459.21	0.6476	A	2.0
7	☐	1000.000	1000.451	12265088.29	1.3090	A	1.8
8	☐			5391.08	0.0006	P	2.9

$$y = 0.0013 * x + 4.3485E-005$$

$$R = 1.0000$$

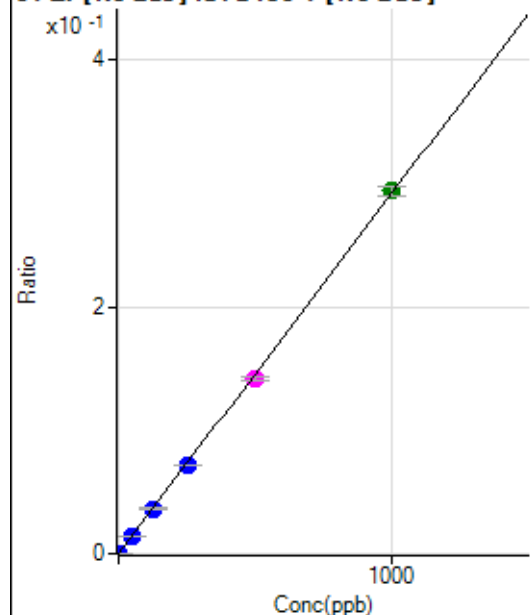
$$DL = 0.003728$$

$$BEC = 0.03324$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	92.22	0.0000	P	8.8
2	☐	1.000	0.817	2440.24	0.0002	P	1.9
3	☐	50.000	48.921	144035.11	0.0143	P	1.1
4	☐	125.000	124.615	361329.65	0.0364	P	2.1
5	☐	250.000	244.879	711018.22	0.0715	P	1.0
6	☐	500.000	486.514	1384234.13	0.1420	M	2.2
7	☐	1000.000	1008.126	2755886.38	0.2941	A	2.9
8	☐			1146.73	0.0001	P	4.8

$$y = 2.9176E-004 * x + 9.2046E-006$$

$$R = 0.9999$$

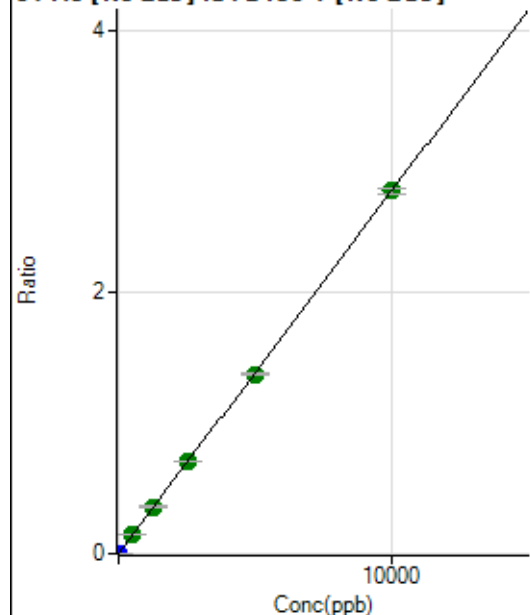
$$DL = 0.008308$$

$$BEC = 0.03155$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	137.78	0.0000	P	8.1
2	☐	5.000	4.951	13662.34	0.0014	P	0.2
3	☐	500.000	510.075	1425712.44	0.1414	A	1.9
4	☐	1250.000	1285.489	3539873.21	0.3563	A	2.7
5	☐	2500.000	2539.277	7003414.48	0.7038	A	0.3
6	☐	5000.000	4954.021	13388534.38	1.3730	A	1.1
7	☐	10000.000	10008.230	25988688.22	2.7738	A	1.9
8	☐			6011.35	0.0007	P	4.8

$$y = 2.7715E-004 * x + 1.3752E-005$$

$$R = 1.0000$$

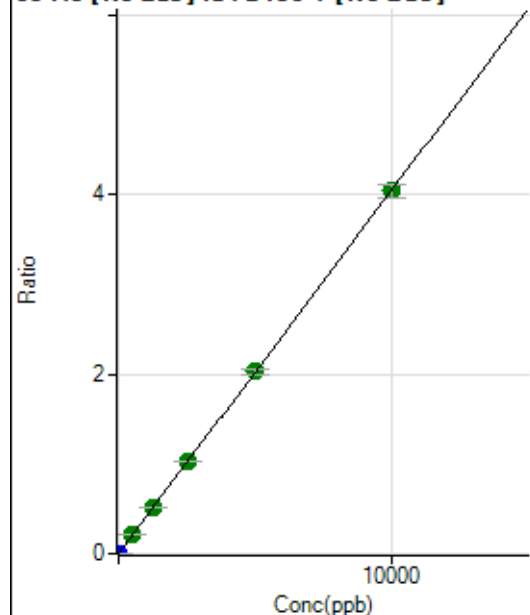
$$DL = 0.01204$$

$$BEC = 0.04962$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0000	P	25.5
2	☐	5.000	4.210	16877.03	0.0017	P	1.1
3	☐	500.000	514.015	2098370.59	0.2081	A	2.5
4	☐	1250.000	1267.809	5099684.12	0.5132	A	2.7
5	☐	2500.000	2524.670	10170730.06	1.0220	A	0.3
6	☐	5000.000	5005.540	19754606.09	2.0264	A	2.2
7	☐	10000.000	9988.136	37878813.05	4.0434	A	3.5
8	☐			7117.47	0.0008	P	3.4

$$y = 4.0482\text{E-}004 * x + 7.7600\text{E-}006$$

$$R = 1.0000$$

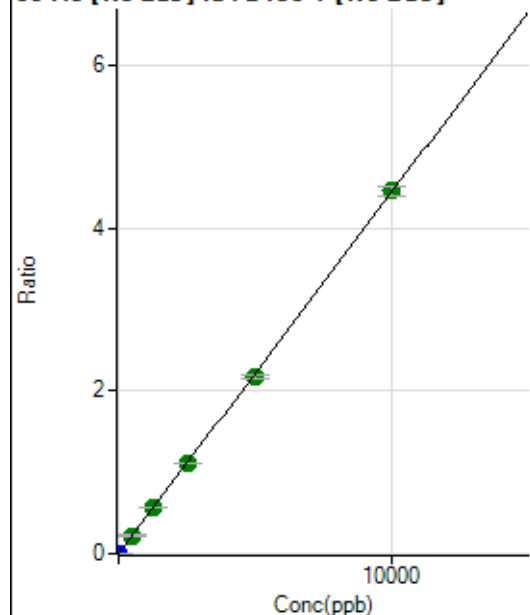
$$DL = 0.01465$$

$$BEC = 0.01917$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.23	0.0000	P	16.6
2	☐	5.000	4.243	18686.01	0.0019	P	1.5
3	☐	500.000	503.859	2253310.47	0.2234	A	1.6
4	☐	1250.000	1259.442	5549649.85	0.5585	A	1.0
5	☐	2500.000	2505.065	11053520.53	1.1108	A	0.5
6	☐	5000.000	4908.767	21219333.57	2.1766	A	2.4
7	☐	10000.000	10042.977	41720857.16	4.4532	A	2.7
8	☐			8332.62	0.0009	P	4.2

$$y = 4.4342\text{E-}004 * x + 1.4198\text{E-}005$$

$$R = 0.9999$$

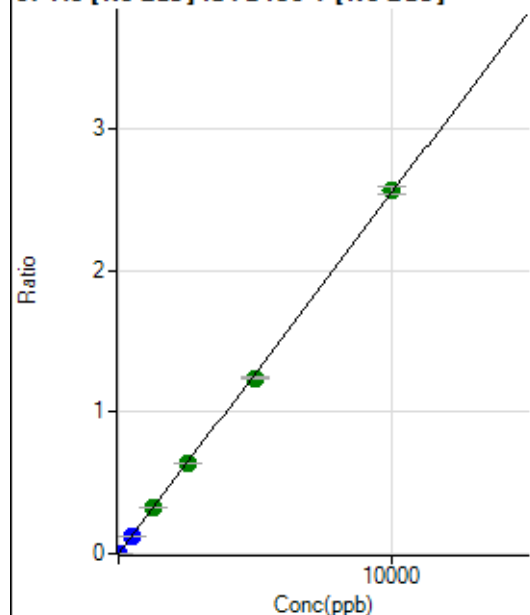
$$DL = 0.01598$$

$$BEC = 0.03202$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	0.4
2	☐	5.000	4.285	10796.51	0.0011	P	1.6
3	☐	500.000	495.735	1274027.65	0.1263	P	1.5
4	☐	1250.000	1267.721	3210314.60	0.3231	A	1.1
5	☐	2500.000	2505.425	6353649.42	0.6385	A	0.8
6	☐	5000.000	4872.386	12107529.96	1.2417	A	1.1
7	☐	10000.000	10060.449	24019857.42	2.5638	A	2.3
8	☐			4399.64	0.0005	P	2.6

$$y = 2.5484\text{E-}004 * x + 3.3274\text{E-}006$$

$$R = 0.9999$$

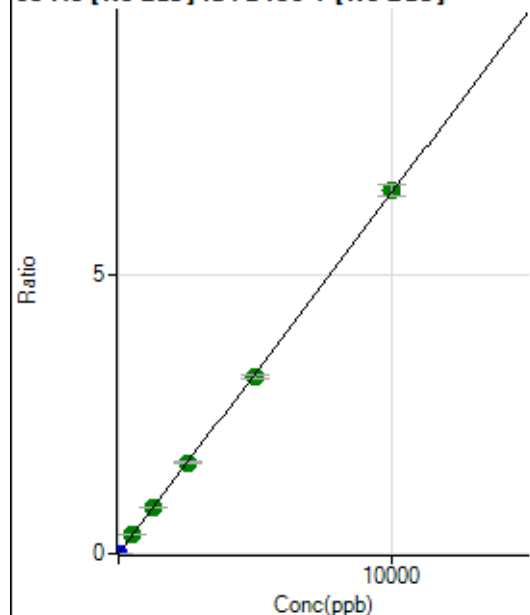
$$DL = 0.0001661$$

$$BEC = 0.01306$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.33	0.0000	P	17.9
2	☐	5.000	4.206	26888.37	0.0027	P	1.4
3	☐	500.000	511.217	3331130.05	0.3303	A	1.6
4	☐	1250.000	1263.886	8114606.96	0.8167	A	1.6
5	☐	2500.000	2506.409	16114701.71	1.6195	A	2.0
6	☐	5000.000	4889.094	30799305.93	3.1591	A	1.8
7	☐	10000.000	10051.554	60843770.76	6.4947	A	3.2
8	☐			10912.22	0.0012	P	4.7

$$y = 6.4614\text{E-}004 * x + 1.0315\text{E-}005$$

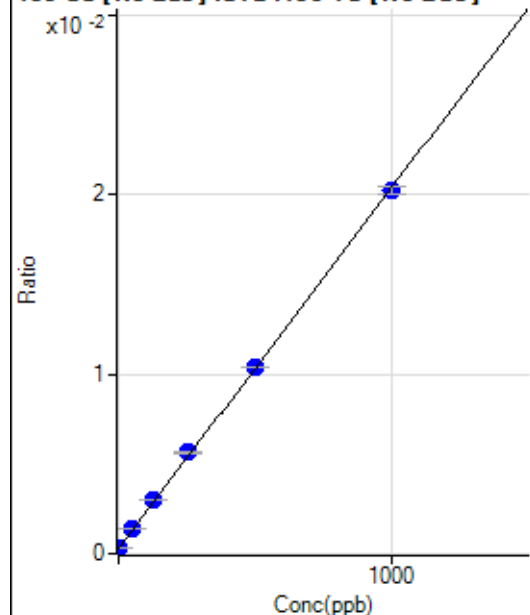
$$R = 0.9999$$

$$DL = 0.008579$$

$$BEC = 0.01596$$

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	2538.04	0.0003	P	6.0
2	☐	1.000	0.639	2629.17	0.0003	P	1.4
3	☐	50.000	54.852	12678.14	0.0014	P	1.0
4	☐	125.000	135.611	27848.16	0.0030	P	0.9
5	☐	250.000	266.759	51722.29	0.0056	P	1.7
6	☐	500.000	503.583	96011.84	0.0104	P	0.8
7	☐	1000.000	992.450	182119.51	0.0202	P	2.1
8	☐			2503.59	0.0003	P	1.5

$$y = 2.0078\text{E-}005 * x + 2.7837\text{E-}004$$

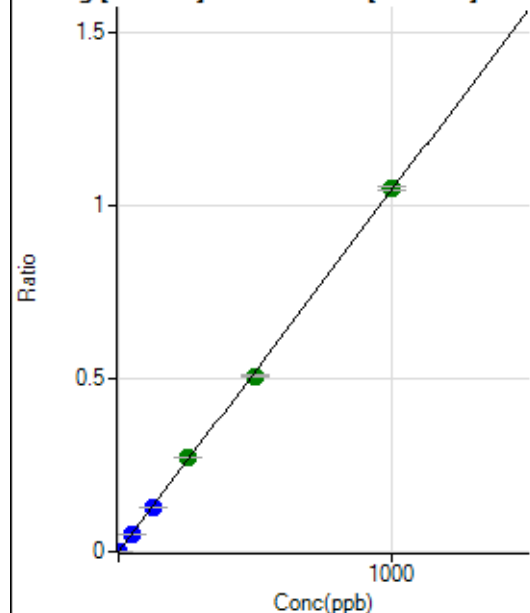
$$R = 0.9998$$

$$DL = 2.492$$

$$BEC = 13.86$$

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	54.44	0.0000	P	22.5
2	☐	1.000	0.833	7909.02	0.0009	P	7.8
3	☐	50.000	50.216	481941.12	0.0524	P	1.0
4	☐	125.000	124.109	1202664.18	0.1296	P	0.7
5	☐	250.000	261.703	2508881.63	0.2733	A	0.8
6	☐	500.000	485.910	4689649.48	0.5074	A	0.6
7	☐	1000.000	1004.220	9454287.29	1.0487	A	1.1
8	☐			1653.45	0.0002	P	3.2

$$y = 0.0010 * x + 5.9806\text{E-}006$$

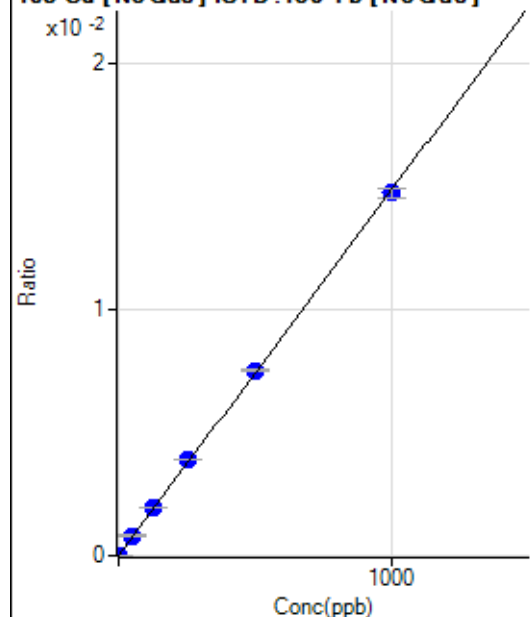
$$R = 0.9998$$

$$DL = 0.003868$$

$$BEC = 0.005727$$

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	6.67	0.0000	P	51.0
2	☐	1.000	0.913	128.89	0.0000	P	7.9
3	☐	50.000	55.152	7524.35	0.0008	P	1.8
4	☐	125.000	133.440	18373.48	0.0020	P	0.4
5	☐	250.000	263.265	35855.53	0.0039	P	0.2
6	☐	500.000	506.300	69413.88	0.0075	P	0.8
7	☐	1000.000	992.221	132669.16	0.0147	P	2.5
8	☐			112.22	0.0000	P	26.8

$$y = 1.4834E-005 * x + 7.3401E-007$$

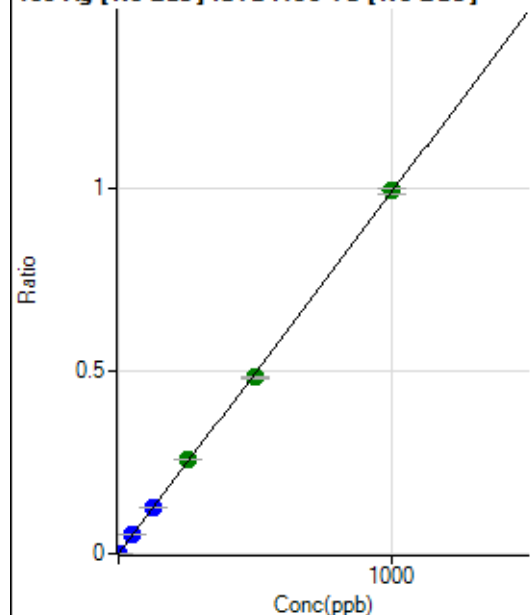
$$R = 0.9999$$

$$DL = 0.07575$$

$$BEC = 0.04948$$

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	24.45	0.0000	P	27.4
2	☐	1.000	0.845	7561.05	0.0008	P	5.8
3	☐	50.000	51.050	463552.92	0.0504	P	0.7
4	☐	125.000	126.377	1158701.88	0.1249	P	0.4
5	☐	250.000	260.184	2360009.38	0.2571	A	0.5
6	☐	500.000	487.337	4450169.38	0.4815	A	1.7
7	☐	1000.000	1003.561	8938370.91	0.9916	A	1.7
8	☐			1546.77	0.0002	P	4.2

$$y = 9.8808E-004 * x + 2.6762E-006$$

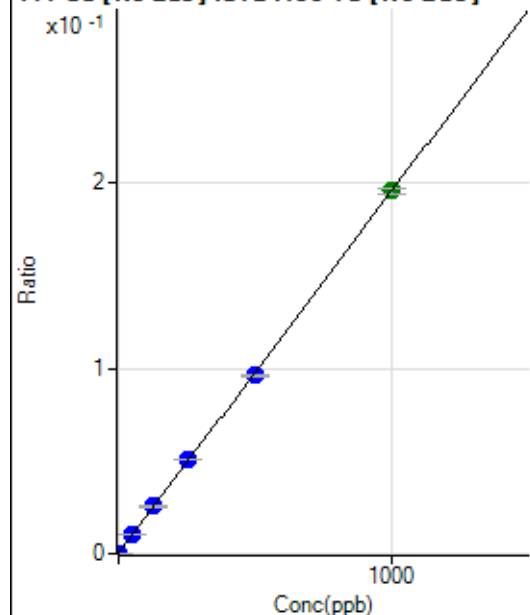
$$R = 0.9998$$

$$DL = 0.00223$$

$$BEC = 0.002708$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1788.63	0.0002	P	6.6
2	☐	1.000	0.883	3326.98	0.0004	P	1.9
3	☐	50.000	52.536	95996.78	0.0104	P	1.7
4	☐	125.000	129.366	236037.88	0.0254	P	0.8
5	☐	250.000	259.186	466040.12	0.0508	P	0.2
6	☐	500.000	491.909	888818.29	0.0962	P	1.0
7	☐	1000.000	1001.077	1762467.45	0.1955	A	1.7
8	☐			2609.56	0.0003	P	3.1

$$y = 1.9512\text{E-}004 * x + 1.9617\text{E-}004$$

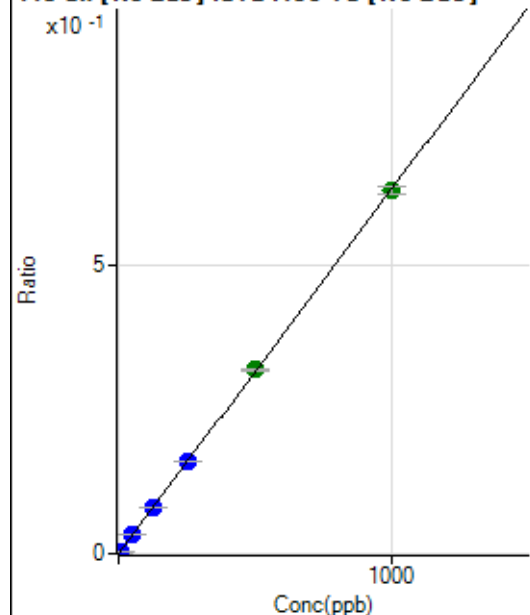
$$R = 0.9999$$

$$DL = 0.1987$$

$$BEC = 1.005$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	882.26	0.0001	P	1.9
2	☐	5.000	4.417	26081.58	0.0029	P	1.6
3	☐	50.000	51.704	301227.91	0.0328	P	0.3
4	☐	125.000	128.503	754602.80	0.0813	P	0.9
5	☐	250.000	254.665	1478642.72	0.1611	P	0.6
6	☐	500.000	505.159	2951919.92	0.3194	A	0.9
7	☐	1000.000	995.734	5674469.99	0.6295	A	2.2
8	☐			3915.32	0.0004	P	13.1

$$y = 6.3212\text{E-}004 * x + 9.6785\text{E-}005$$

$$R = 1.0000$$

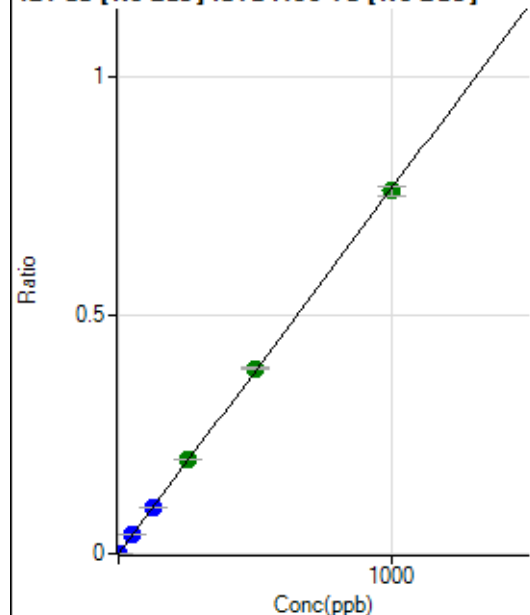
$$DL = 0.008613$$

$$BEC = 0.1531$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0000	P	35.5
2	☐	2.000	1.746	12105.45	0.0013	P	1.0
3	☐	50.000	50.913	358258.80	0.0390	P	0.7
4	☐	125.000	126.818	901012.61	0.0971	P	0.4
5	☐	250.000	259.528	1824167.99	0.1987	A	0.4
6	☐	500.000	507.054	3587825.99	0.3882	A	1.1
7	☐	1000.000	993.819	6858476.01	0.7609	A	2.9
8	☐			3785.77	0.0004	P	27.0

$$y = 7.6566\text{E-}004 * x + 4.0120\text{E-}006$$

$$R = 0.9999$$

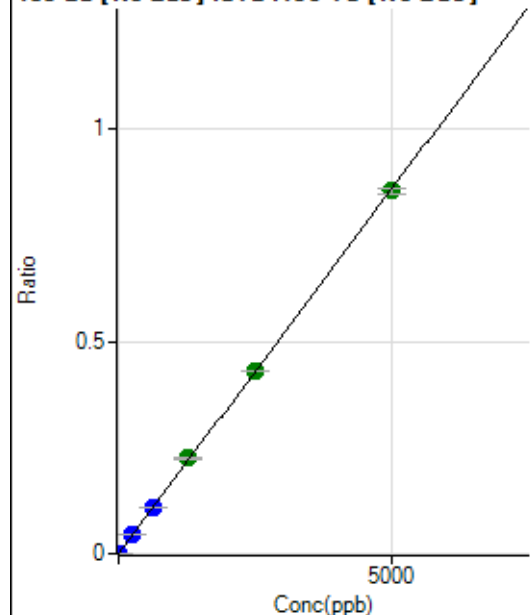
$$DL = 0.005573$$

$$BEC = 0.00524$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	36.9
2	☐	10.000	8.566	13303.30	0.0015	P	2.2
3	☐	250.000	254.671	401602.92	0.0437	P	0.4
4	☐	625.000	633.421	1008547.49	0.1087	P	0.6
5	☐	1250.000	1309.108	2062101.36	0.2246	A	2.1
6	☐	2500.000	2512.294	3983939.49	0.4311	A	0.5
7	☐	5000.000	4977.793	7699525.44	0.8541	A	1.2
8	☐			4682.05	0.0005	P	25.4

$$y = 1.7159\text{E-}004 * x + 3.6653\text{E-}006$$

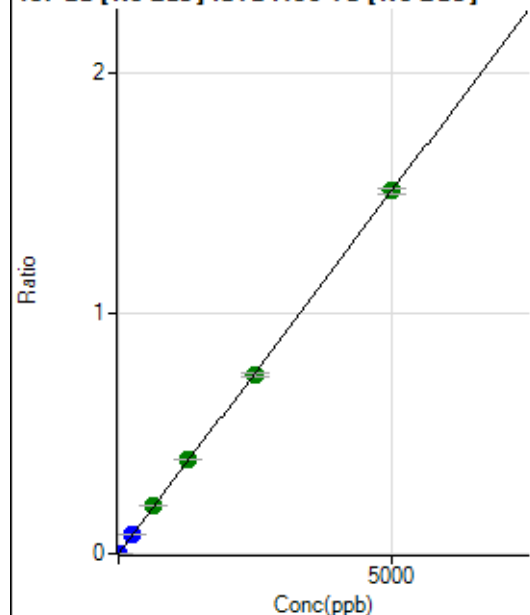
$$R = 0.9999$$

$$DL = 0.02365$$

$$BEC = 0.02136$$

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	66.67	0.0000	P	35.2
2	☐	10.000	8.788	24019.18	0.0027	P	0.5
3	☐	250.000	255.859	709832.73	0.0772	P	0.5
4	☐	625.000	656.047	1837615.25	0.1980	A	1.6
5	☐	1250.000	1297.512	3595654.29	0.3917	A	0.9
6	☐	2500.000	2460.326	6863551.91	0.7427	A	1.8
7	☐	5000.000	5003.787	13616075.35	1.5105	A	1.5
8	☐			8260.28	0.0009	P	23.6

$$y = 3.0187E-004 * x + 7.3265E-006$$

$$R = 0.9999$$

$$DL = 0.02563$$

$$BEC = 0.02427$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.0
2	☐			13.33		P	NaN
3	☐			40.00		P	30.0
4	☐			56.67		P	21.2
5	☐			93.33		P	10.7
6	☐			211.11		P	7.1
7	☐			344.45		P	10.7
8	☐			244.45		P	14.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			3.33		P	100.1
3	☐			4.44		P	43.4
4	☐			14.45		P	74.2
5	☐			7.78		P	99.0
6	☐			28.89		P	35.2
7	☐			30.00		P	22.2
8	☐			93.34		P	12.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			10.00		P	33.3
3	☐			24.44		P	31.5
4	☐			71.11		P	15.1
5	☐			115.56		P	23.5
6	☐			232.23		P	19.6
7	☐			387.79		P	6.0
8	☐			1572.33		P	5.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			3.33		P	100.1
3	☐			15.56		P	65.5
4	☐			32.22		P	6.0
5	☐			60.00		P	14.7
6	☐			120.00		P	5.6
7	☐			243.34		P	10.7
8	☐			747.81		P	2.7

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			67.78		P	22.2
2	☐			74.45		P	14.4
3	☐			91.11		P	24.4
4	☐			121.11		P	12.4
5	☐			165.56		P	14.6
6	☐			270.01		P	6.5
7	☐			388.90		P	0.5
8	☐			1703.46		P	8.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100.00		P	15.3
2	☐			91.11		P	11.8
3	☐			116.67		P	8.6
4	☐			123.33		P	16.9
5	☐			138.89		P	17.7
6	☐			201.11		P	4.8
7	☐			285.56		P	5.8
8	☐			972.27		P	7.3

164 Er [No Gas] No available calibration points

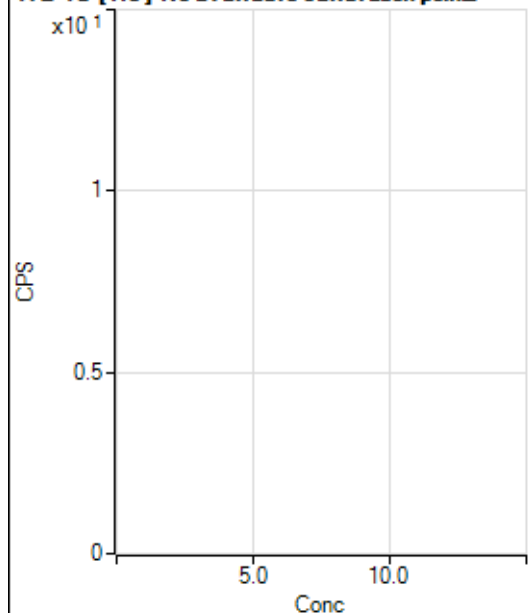
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	23.8
2	☐			64.44		P	15.8
3	☐			67.78		P	32.8
4	☐			76.67		P	22.6
5	☐			88.89		P	7.8
6	☐			92.22		P	11.0
7	☐			128.89		P	10.5
8	☐			280.01		P	8.3

164 Er [He] No available calibration points

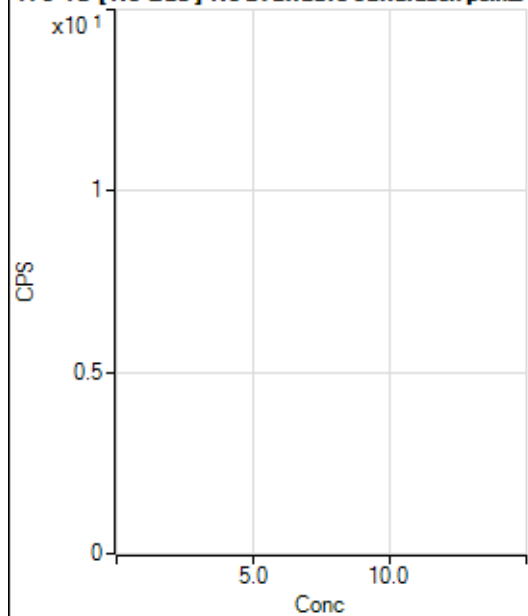
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	36.6
2	☐			28.89		P	65.6
3	☐			41.11		P	16.9
4	☐			35.56		P	32.9
5	☐			30.00		P	55.6
6	☐			40.00		P	16.7
7	☐			47.78		P	42.6
8	☐			116.67		P	24.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	20.0
2	☐			80.00		P	8.3
3	☐			67.78		P	31.6
4	☐			81.11		P	10.3
5	☐			83.33		P	10.6
6	☐			151.12		P	8.9
7	☐			191.12		P	20.8
8	☐			201.11		P	2.5

172 Yb [He] No available calibration points

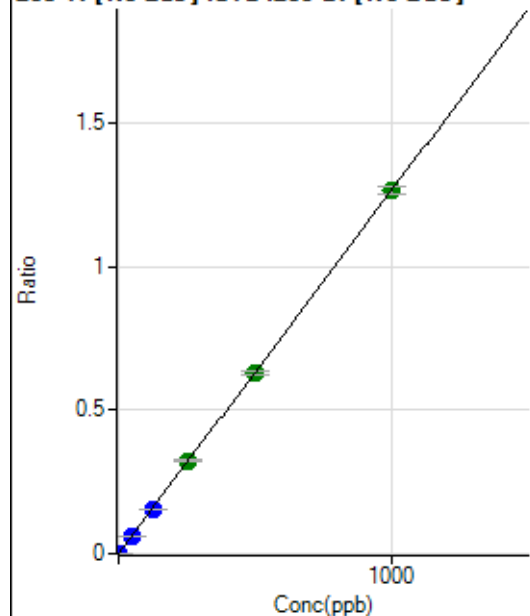
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.45		P	45.7
2	☐			37.78		P	22.2
3	☐			40.00		P	25.0
4	☐			34.44		P	47.7
5	☐			46.67		P	18.9
6	☐			68.89		P	24.8
7	☐			101.11		P	21.9
8	☐			111.12		P	21.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1081.16		P	4.0
2	☐			1110.06		P	5.0
3	☐			2689.20		P	2.9
4	☐			5087.69		P	1.7
5	☐			8977.57		P	2.0
6	☐			16830.82		P	1.4
7	☐			31729.18		P	0.9
8	☐			1190.07		P	6.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8921.99		P	3.4
2	☐			8969.83		P	2.9
3	☐			9434.56		P	0.4
4	☐			10598.79		P	1.1
5	☐			12261.36		P	1.0
6	☐			15513.67		P	1.5
7	☐			22992.34		P	0.5
8	☐			8655.15		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	56.67	0.0000	P	0.7
2	☐	1.000	0.820	6439.44	0.0010	P	3.8
3	☐	50.000	48.229	380652.76	0.0610	P	1.8
4	☐	125.000	121.445	956497.19	0.1536	P	0.9
5	☐	250.000	255.872	2010889.60	0.3235	A	2.0
6	☐	500.000	499.881	3911134.04	0.6320	A	2.3
7	☐	1000.000	999.125	7467802.53	1.2632	A	2.0
8	☐			1341.23	0.0002	P	19.7

$$y = 0.0013 * x + 9.0721E-006$$

$$R = 1.0000$$

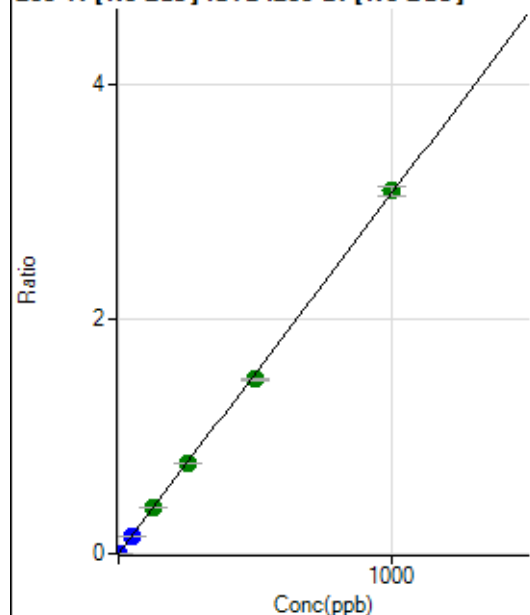
$$DL = 0.0001403$$

$$BEC = 0.007176$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	131.11	0.0000	P	17.4
2	☐	1.000	0.822	15700.73	0.0025	P	1.6
3	☐	50.000	47.960	920347.64	0.1475	P	2.1
4	☐	125.000	128.415	2459091.85	0.3948	A	0.9
5	☐	250.000	250.494	4786737.78	0.7701	A	1.4
6	☐	500.000	484.756	9222553.41	1.4902	A	1.4
7	☐	1000.000	1007.174	18303651.11	3.0962	A	2.8
8	☐			3231.81	0.0006	P	14.8

$$y = 0.0031 * x + 2.0974E-005$$

$$R = 0.9998$$

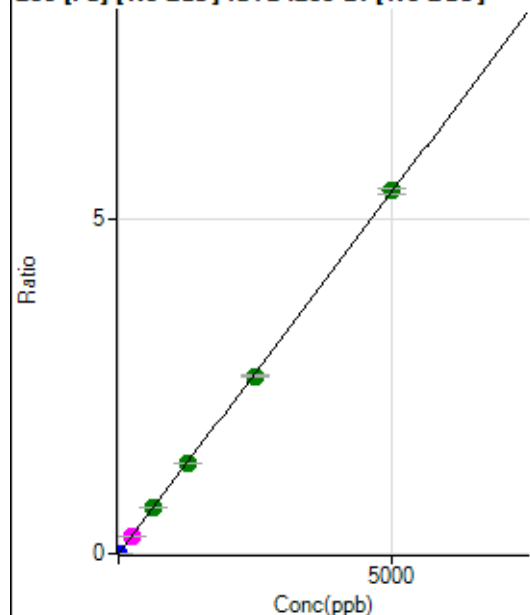
$$DL = 0.003557$$

$$BEC = 0.006823$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	161.11	0.0000	P	13.1
2	☐	1.000	0.786	5375.61	0.0009	P	2.1
3	☐	250.000	247.553	1664922.13	0.2667	M	1.6
4	☐	625.000	644.445	4324352.16	0.6942	A	1.9
5	☐	1250.000	1246.810	8349153.90	1.3431	A	0.8
6	☐	2500.000	2460.273	16403675.45	2.6503	A	0.7
7	☐	5000.000	5018.353	31965069.52	5.4059	A	1.6
8	☐			17337.59	0.0032	P	5.4

$$y = 0.0011 * x + 2.5777E-005$$

$$R = 0.9999$$

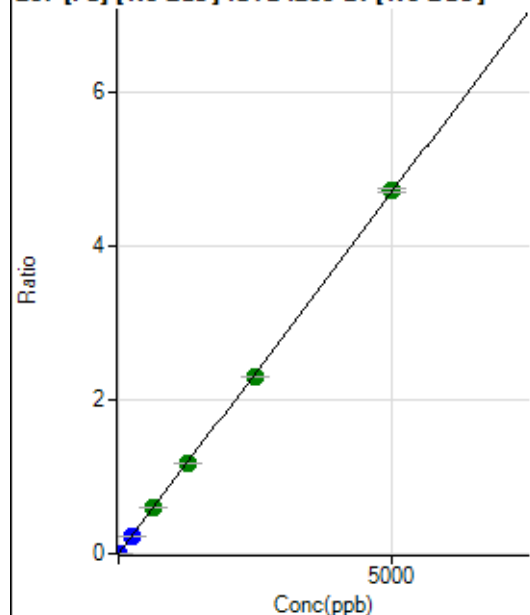
$$DL = 0.009396$$

$$BEC = 0.02393$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	170.00	0.0000	P	13.2
2	☐	1.000	0.802	4799.82	0.0008	P	3.6
3	☐	250.000	240.230	1405500.27	0.2252	P	2.4
4	☐	625.000	638.542	3728284.98	0.5985	A	0.7
5	☐	1250.000	1254.809	7311317.95	1.1762	A	0.7
6	☐	2500.000	2445.134	14186406.73	2.2919	A	0.3
7	☐	5000.000	5025.027	27851716.53	4.7100	A	1.1
8	☐			14390.49	0.0027	P	5.1

$$y = 9.3731E-004 * x + 2.7202E-005$$

$$R = 0.9999$$

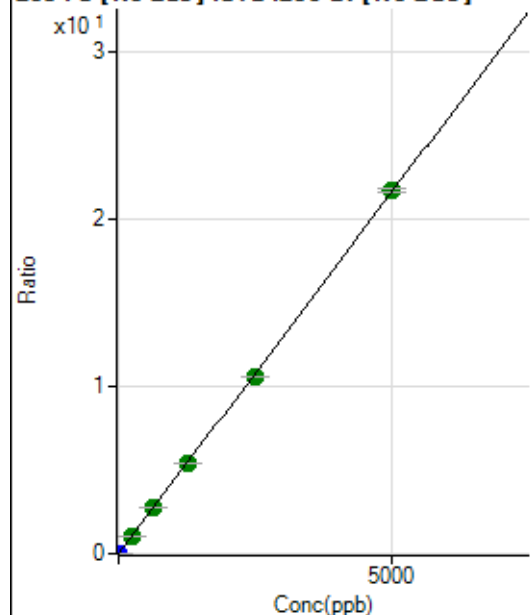
$$DL = 0.01147$$

$$BEC = 0.02902$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	650.01	0.0001	P	14.6
2	☐	1.000	0.804	21988.70	0.0036	P	1.9
3	☐	250.000	247.907	6671364.18	1.0687	A	1.3
4	☐	625.000	637.236	17110671.93	2.7470	A	0.9
5	☐	1250.000	1250.619	33511784.08	5.3910	A	0.9
6	☐	2500.000	2447.747	65304308.06	10.5514	A	0.8
7	☐	5000.000	5024.547	128067723.9	21.6590	A	1.1
8	☐			67268.49	0.0124	P	5.3

$$y = 0.0043 * x + 1.0399E-004$$

$$R = 0.9999$$

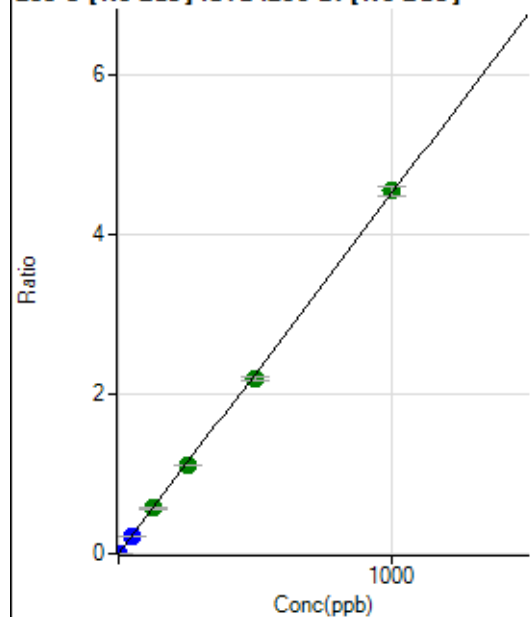
$$DL = 0.01059$$

$$BEC = 0.02412$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.67	0.0000	P	23.3
2	☐	1.000	0.794	22188.39	0.0036	P	2.2
3	☐	50.000	46.484	1310623.64	0.2100	P	2.6
4	☐	125.000	125.636	3535403.63	0.5676	A	0.7
5	☐	250.000	246.529	6923185.38	1.1137	A	0.7
6	☐	500.000	486.160	13592998.13	2.1962	A	1.3
7	☐	1000.000	1007.884	26915401.27	4.5530	A	2.8
8	☐			5624.82	0.0010	P	10.5

$$y = 0.0045 * x + 1.3860E-005$$

$$R = 0.9999$$

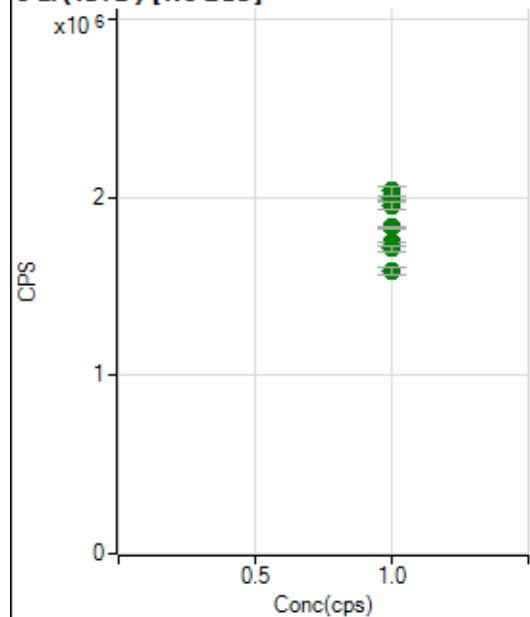
$$DL = 0.002149$$

$$BEC = 0.003068$$

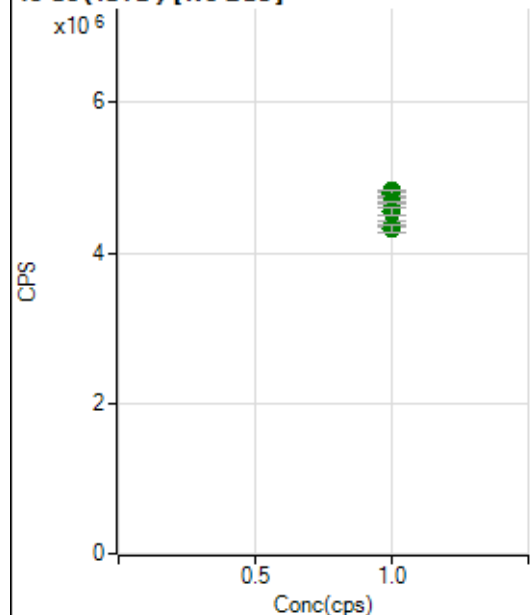
Weight: <None>

Min Conc: 0

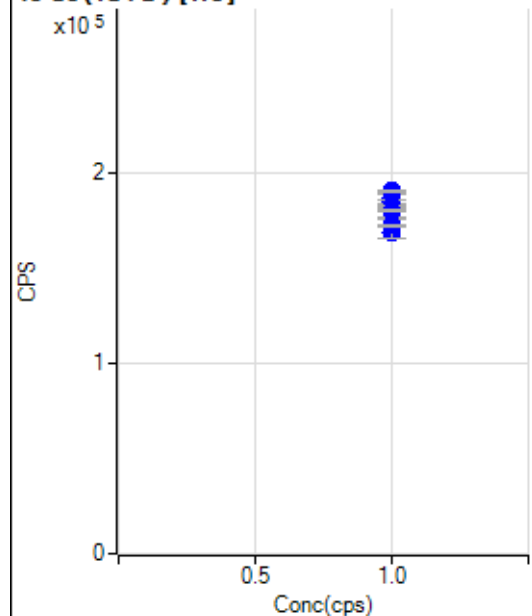
6 Li (ISTD) [No Gas]



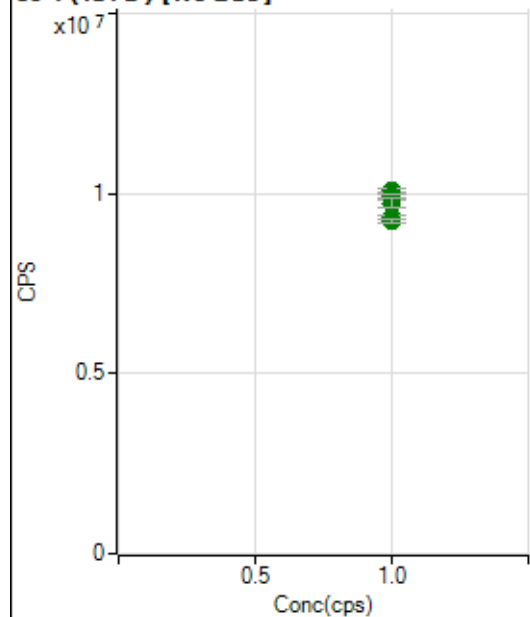
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1995989.40		A	1.0
2	☐	1.000		1989663.30		A	2.0
3	☐	1.000		2034252.38		A	2.4
4	☐	1.000		1951810.74		A	2.5
5	☐	1.000		1829579.34		A	0.6
6	☐	1.000		1747864.53		A	0.2
7	☐	1.000		1709632.85		A	2.4
8	☐	1.000		1587957.90		A	2.4

45 Sc (ISTD) [No Gas]

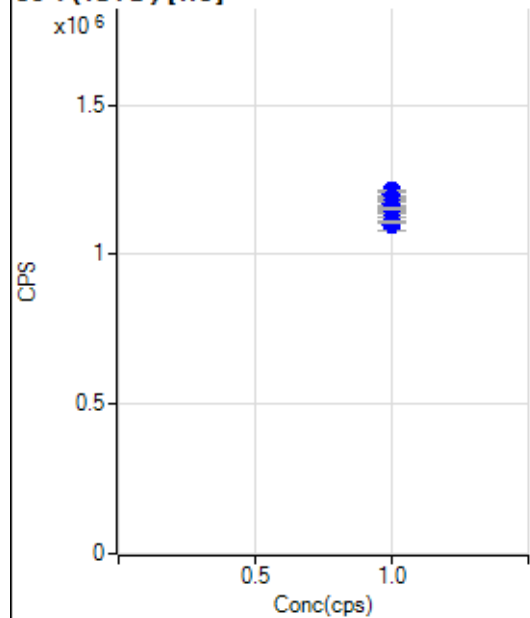
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4824193.33		A	0.5
2	☐	1.000		4774566.53		A	1.4
3	☐	1.000		4803342.36		A	0.3
4	☐	1.000		4799024.34		A	1.8
5	☐	1.000		4671682.75		A	0.3
6	☐	1.000		4546380.83		A	2.1
7	☐	1.000		4384677.57		A	1.6
8	☐	1.000		4326980.84		A	2.5

45 Sc (ISTD) [He]

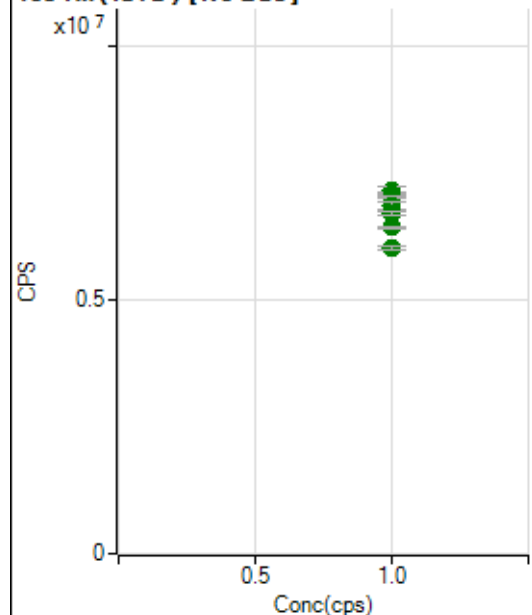
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		186771.55		P	1.3
2	☐	1.000		190189.04		P	0.2
3	☐	1.000		184304.36		P	0.8
4	☐	1.000		182011.62		P	1.0
5	☐	1.000		176346.68		P	0.5
6	☐	1.000		168174.46		P	3.8
7	☐	1.000		172065.72		P	0.5
8	☐	1.000		179511.52		P	0.6

89 Y (ISTD) [No Gas]

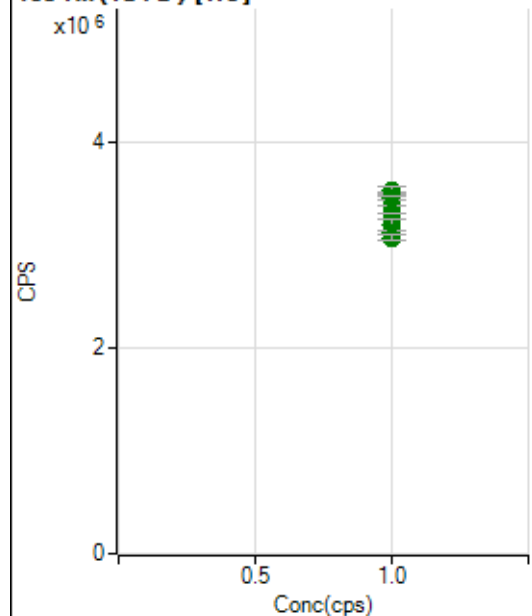
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10017082.56		A	0.4
2	☐	1.000		9857118.74		A	0.6
3	☐	1.000		10085704.99		A	1.4
4	☐	1.000		9938619.37		A	2.2
5	☐	1.000		9951157.42		A	1.1
6	☐	1.000		9752652.98		A	2.6
7	☐	1.000		9370714.72		A	1.3
8	☐	1.000		9243003.68		A	1.1

89 Y (ISTD) [He]

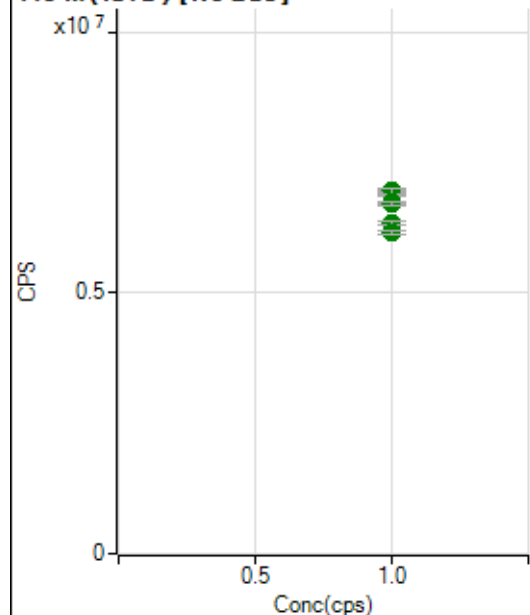
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1201125.53		P	1.4
2	☐	1.000		1212909.44		P	0.8
3	☐	1.000		1187974.56		P	0.5
4	☐	1.000		1171284.77		P	0.8
5	☐	1.000		1141643.59		P	0.6
6	☐	1.000		1101959.08		P	4.5
7	☐	1.000		1107587.79		P	0.7
8	☐	1.000		1156340.55		P	0.5

103 Rh (ISTD) [No Gas]

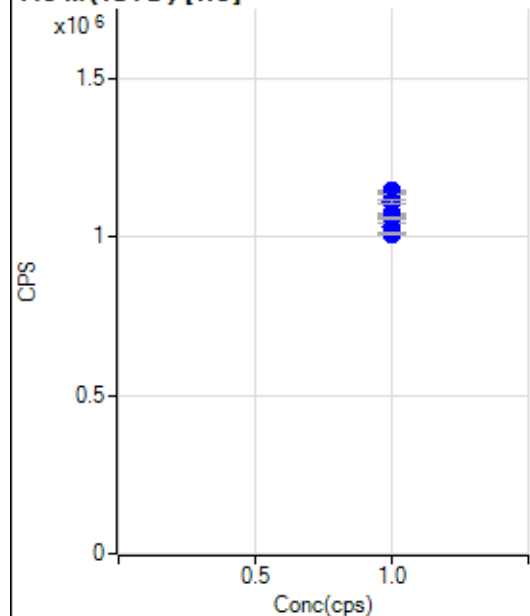
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7065902.05		A	1.4
2	☐	1.000		7138372.67		A	2.0
3	☐	1.000		7084769.75		A	0.7
4	☐	1.000		7035361.28		A	0.6
5	☐	1.000		6860382.95		A	2.2
6	☐	1.000		6695484.69		A	1.5
7	☐	1.000		6423722.47		A	0.8
8	☐	1.000		6022915.12		A	1.1

103 Rh (ISTD) [He]

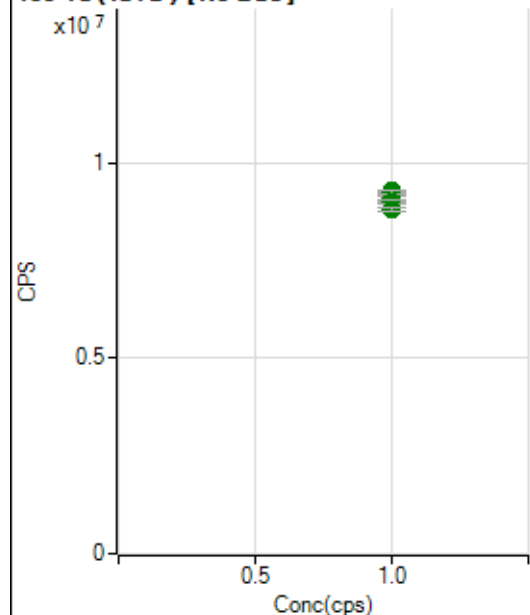
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3499119.95		A	0.9
2	☐	1.000		3521010.12		A	2.3
3	☐	1.000		3450106.23		A	1.3
4	☐	1.000		3377714.64		A	0.4
5	☐	1.000		3301559.95		A	0.2
6	☐	1.000		3189314.43		A	3.1
7	☐	1.000		3115744.33		A	0.8
8	☐	1.000		3068650.09		A	1.9

115 In (ISTD) [No Gas]

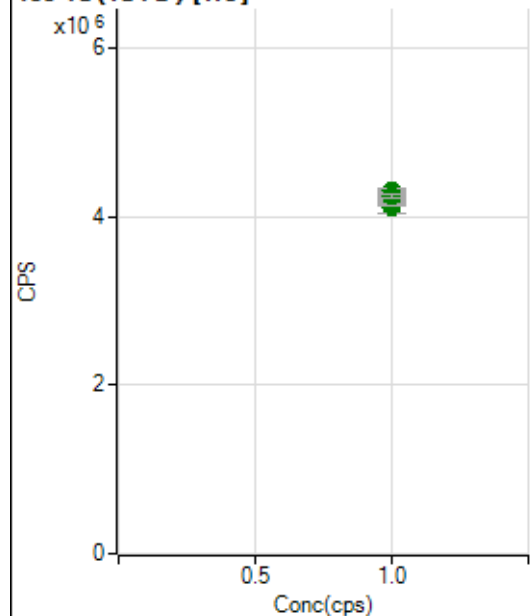
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6927392.19		A	0.8
2	☐	1.000		6879892.57		A	0.8
3	☐	1.000		6889903.42		A	1.2
4	☐	1.000		6959190.48		A	1.3
5	☐	1.000		6746500.49		A	0.5
6	☐	1.000		6713666.57		A	1.2
7	☐	1.000		6344426.81		A	0.7
8	☐	1.000		6167495.33		A	1.0

115 In (ISTD) [He]

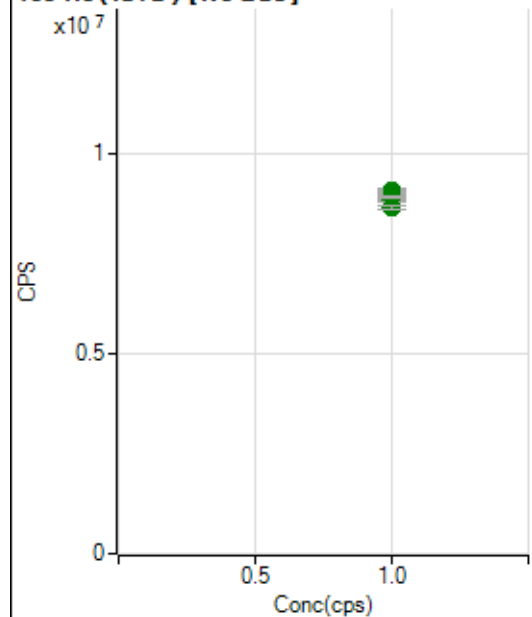
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1143096.97		P	0.7
2	☐	1.000		1145145.02		P	0.7
3	☐	1.000		1135035.33		P	0.4
4	☐	1.000		1108945.88		P	1.0
5	☐	1.000		1071669.64		P	0.8
6	☐	1.000		1030484.20		P	2.8
7	☐	1.000		1009578.81		P	0.5
8	☐	1.000		1060551.15		P	0.3

159 Tb (ISTD) [No Gas]

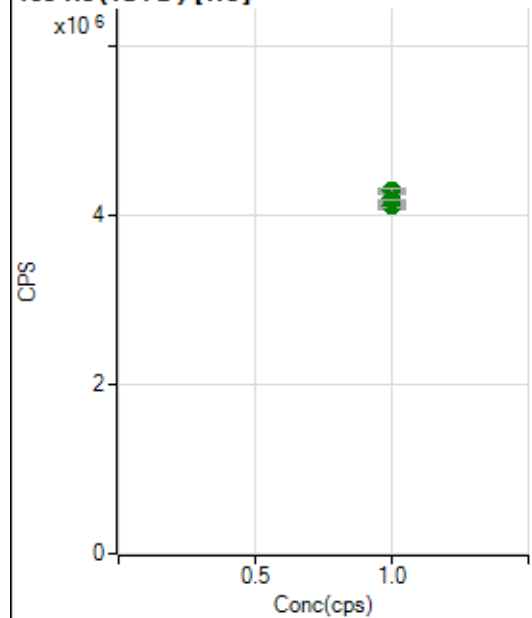
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9116049.31		A	1.1
2	☐	1.000		9029442.57		A	0.5
3	☐	1.000		9189534.10		A	0.5
4	☐	1.000		9278969.44		A	0.4
5	☐	1.000		9179845.35		A	0.0
6	☐	1.000		9241810.07		A	0.7
7	☐	1.000		9015184.38		A	1.2
8	☐	1.000		8792596.40		A	0.9

159 Tb (ISTD) [He]

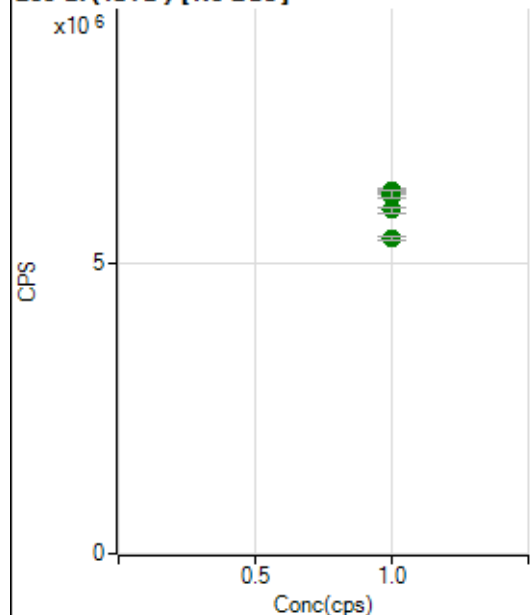
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4301618.17		A	0.6
2	☐	1.000		4255114.69		A	0.3
3	☐	1.000		4292609.45		A	1.1
4	☐	1.000		4307579.34		A	1.0
5	☐	1.000		4205144.14		A	0.6
6	☐	1.000		4106565.32		A	3.6
7	☐	1.000		4142125.74		A	0.7
8	☐	1.000		4241464.83		A	1.2

165 Ho (ISTD) [No Gas]

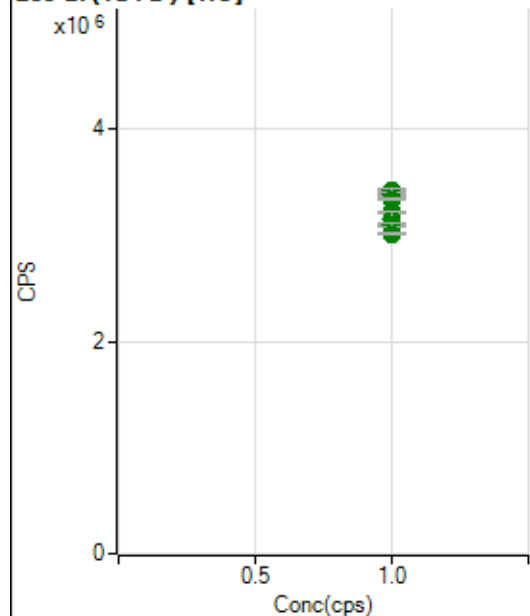
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8896194.87		A	0.6
2	☐	1.000		8876757.58		A	1.4
3	☐	1.000		9075735.77		A	1.6
4	☐	1.000		9085298.27		A	1.5
5	☐	1.000		9023759.59		A	1.7
6	☐	1.000		9039976.95		A	0.8
7	☐	1.000		8933325.01		A	0.4
8	☐	1.000		8667151.47		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4289119.80		A	0.9
2	☐	1.000		4214722.33		A	1.2
3	☐	1.000		4288042.37		A	0.2
4	☐	1.000		4285677.96		A	1.5
5	☐	1.000		4133545.77		A	1.4
6	☐	1.000		4113682.61		A	2.6
7	☐	1.000		4112297.30		A	0.8
8	☐	1.000		4183018.93		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6246789.77		A	0.7
2	☐	1.000		6160128.94		A	0.9
3	☐	1.000		6243213.17		A	2.0
4	☐	1.000		6229114.91		A	0.8
5	☐	1.000		6216482.54		A	1.1
6	☐	1.000		6189732.69		A	1.9
7	☐	1.000		5912961.30		A	1.5
8	☐	1.000		5430131.24		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3409912.35		A	0.9
2	☐	1.000		3394406.02		A	1.1
3	☐	1.000		3420129.39		A	1.0
4	☐	1.000		3344161.69		A	0.9
5	☐	1.000		3219349.22		A	0.9
6	☐	1.000		3159860.30		A	3.9
7	☐	1.000		3099254.36		A	1.6
8	☐	1.000		3011591.24		A	0.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8101023 MS.b
Acq. Date-Time 2023-10-10 13:33:50
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		8619	86187.11			0.747	5.000
24		76191	761909.69			0.849	5.000
25		9908	99079.16			0.396	5.000
26		11750	117504.41			0.484	5.000
59		85346	853462.42			1.754	5.000
113		9089	90889.79			0.838	5.000
115		113517	1135165.62			0.592	5.000
206		29264	292644.48			0.831	5.000
207		26565	265649.93			1.141	5.000
208		63443	634426.98			0.830	5.000
220		0	2.40			30.901	

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

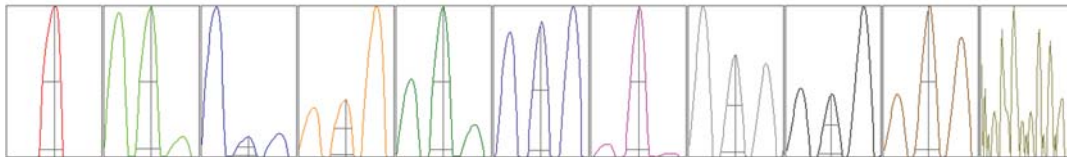
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8714	8564	8619	8555	8640
24	77022	75843	75839	76730	75520
25	9976	9899	9892	9874	9899
26	11851	11740	11719	11714	11728
59	87489	84777	86163	84662	83641
113	9214	9042	9097	9075	9017
115	113234	114361	112568	113567	113853
206	29646	29008	29108	29266	29294
207	27066	26311	26436	26626	26386
208	64158	62732	63684	63279	63361

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15983.30	9.05	8.90 - 9.10	
24	145973.17	24.00	23.90 - 24.10	
25	19299.91	25.00	24.90 - 25.10	
26	22412.94	26.00	25.90 - 26.10	
59	171388.30	59.00	58.90 - 59.10	
113	19146.77	113.00	112.90 - 113.10	
115	246054.00	115.05	114.90 - 115.10	
206	61082.59	206.00	205.90 - 206.10	
207	55883.41	206.95	206.90 - 207.10	
208	132635.13	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.735	0.900	
24	0.56	0.770	0.900	
25	0.53	0.739	0.900	
26	0.55	0.736	0.900	
59	0.52	0.731	0.900	
113	0.48	0.684	0.900	
115	0.47	0.724	0.900	
206	0.48	0.765	0.900	
207	0.48	0.765	0.900	
208	0.49	0.778	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.2 V	Deflect	15.0 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2303 V	Pulse HV	1628 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		20386	203856.55			0.214	
89		12907	129070.04			0.782	
205		23358	233580.47			0.764	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	20331	20374	20381	20453	20389
89	12808	12964	13054	12838	12871
205	23630	23135	23331	23384	23310

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.2 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2303 V	Pulse HV	1628 V
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