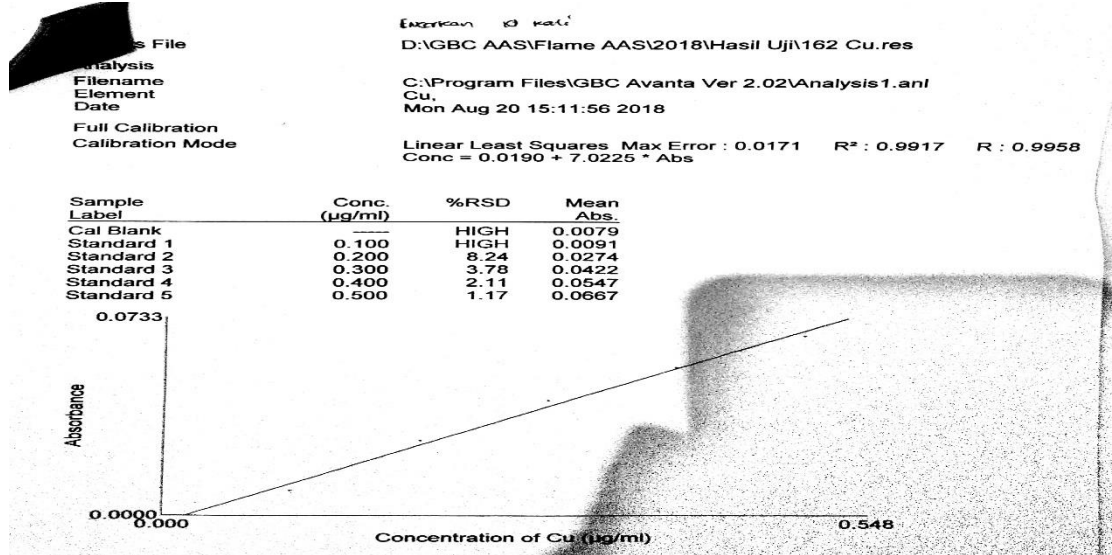


Lampiran 3. Hasil Analisis Logam Berat Uji AAS



DUPLO 1	0.299	HIGH	0.0015
DUPLO 1	0.300	2.76	0.0399
DUPLO 2	0.308	6.62	0.0400
AKURASI	0.308	7.56	0.0411
SW 1	0.403	2.84	0.0547
SW 2	0.378	3.28	0.0511
SW 3	0.241	4.76	0.0316
SW 3	High	1.59	0.3365
SW 3	High	1.73	0.3464
SW 4	High	5.60	0.4707
SW 5	High	0.80	0.4870
SW 6	0.499	0.86	0.0683
SW 7	High	1.31	0.2923
SW 8	High	0.06	0.1723
SW 9	High	2.21	0.1826
SW 10	High	0.36	0.1676
SW 11	High	1.99	0.1698
SW 12	0.530	1.34	0.0727
SW 13	High	2.79	0.0753
SW 13	High	12.09	0.0794
SW 14	High	0.87	0.1127
SW 15	High	3.47	0.1107
SW 16	High	0.34	0.1301
SW 17	High	6.34	0.1497
SW 17	High	3.34	0.1420
SW 2	0.037	HIGH	0.0026
SW 3	0.354	1.08	0.0477
SW 4	High	3.07	0.0982
SW 4	High	1.35	0.0935
SW 5	High	2.84	0.0844
SW 6	0.078	8.27	0.0085
SW 7	0.286	2.14	0.0380
SW 8	0.151	11.13	0.0188
SW 9	0.098	12.85	0.0112
SW 10	0.140	17.66	0.0172
SW 11	0.135	6.43	0.0165
SW 12	0.055	8.84	0.0051
SW 13	0.059	HIGH	0.0056
SW 14	0.100	HIGH	0.0115
SW 15	0.072	HIGH	0.0075
SW 16	0.061	HIGH	0.0060
SW 17	0.064	11.73	0.0064
duplo 1	0.267	4.00	0.0353
duplo 2	0.270	3.02	0.0357
akurasi	0.353	3.68	0.0476

Results File

D:\GBC AAS\Flame AAS\2018\Hasil Uji\161 Cd 1 res

Analysis

Filename

C:\Program Files\GBC Avanta Ver 2.02\Analysis1.ant

Element

Cd,

Date

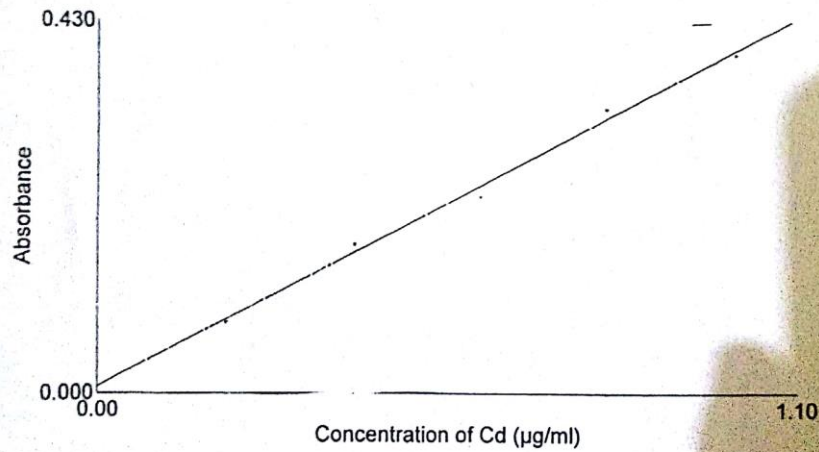
Mon Aug 20 14:42:32 2018

Full Calibration

Calibration Mode

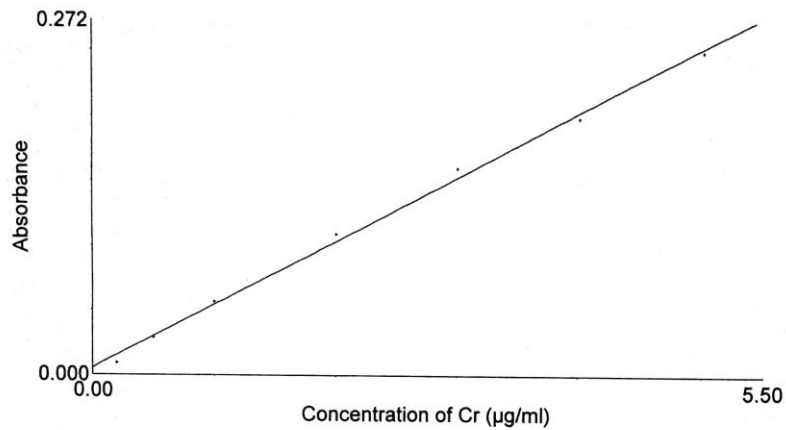
Linear Least Squares Max Error : 0.0319 R² : 0.9934 R : 0.9967
 Conc = -0.0178 + 2.5704 * Abs

Sample Label	Conc. (µg/ml)	%RSD	Mean Abs.
Table Blank	----	----	0.0000
Standard 1	0.200	----	0.0812
Standard 2	0.400	----	0.1718
Standard 3	0.600	----	0.2280
Standard 4	0.800	----	0.3295
Standard 5	1.000	----	0.3914



Sample Label	Conc. (µg/ml)	%RSD	Mean Abs.
SW 11	0.025	11.13	0.0167
SW 12	0.011	1.87	0.0111
SW 13	0.010	HIGH	0.0110
duplo 1	0.275	0.63	0.1141
duplo 2	0.275	1.04	0.1139
akurasi	0.375	2.19	0.1527
SW 14	0.027	3.18	0.0173
SW 15	0.020	11.45	0.0147
SW 16	0.022	7.56	0.0156
SW 17	0.024	4.57	0.0164
KO A 1	0.015	16.31	0.0130
KO A 2	0.018	16.36	0.0138
KO A 3	0.007	6.91	0.0099
KO A 4	0.015	11.86	0.0126

Sample Label	Conc. (µg/ml)	%RSD	Mean Abs.
Table Blank	-----	-----	0.0000
Standard 1	0.500	-----	0.0285
Standard 2	1.000	-----	0.0569
Standard 3	2.000	-----	0.1093
Standard 4	3.000	-----	0.1601
Standard 5	4.000	-----	0.1976
Standard 6	5.000	-----	0.2482
Standard 7	0.200	-----	0.0086



Sample Label	Conc. (µg/ml)	%RSD	Mean Abs.
SW 1	0.243	7.28	0.0172
SW 2	0.168	8.95	0.0135
SW 3	0.151	3.00	0.0126
SW 4	0.297	6.48	0.0198
SW 5	0.236	6.87	0.0168
SW 6	0.298	4.68	0.0199
SW 7	0.146	6.78	0.0124
SW 8	0.167	18.48	0.0134
SW 9	0.177	3.95	0.0139
SW 10	0.174	8.26	0.0138
SW 11	0.198	14.83	0.0150
dUPLO	0.230	9.10	0.0165
dUPLO	0.217	2.62	0.0159
SW 12	0.102	5.19	0.0102
SW 13	0.104	14.50	0.0103
SW 14	0.150	7.82	0.0128
SW 15	0.158	3.53	0.0130
SW 16	0.181	3.25	0.0141
SW 17	0.194	8.15	0.0147
AP 1	0.014	6.45	0.0059
AP 2	0.009	HIGH	0.0056
AP 3	-0.020	HIGH	0.0042
AP 4	0.013	HIGH	0.0058
AP 5	-0.007	15.56	0.0049

Results File

D:\GBC AAS\Flame AAS\2018\hasil Uji\159 SW TA.res

Analysis

C:\Program Files\GBC Avanta Ver 2.02\Analysis1.anl

Filename

Fe,

Element

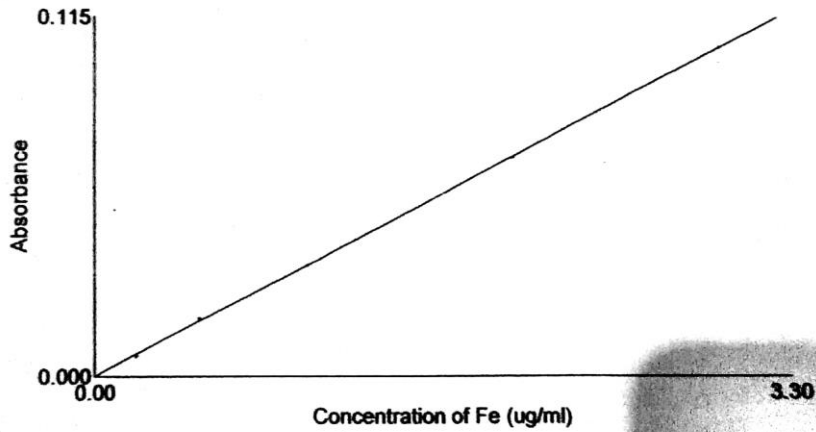
Mon Aug 13 15:37:18 2018

Date

Full Calibration

Linear Least Squares Max Error : 0.0239 R² : 0.9998 R : 0.9999
 Conc = 0.0028 + 28.6346 * Abs

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
Table Blank	—	—	0.0000
Standard 1	0.2000	—	0.0062
Standard 2	0.5000	—	0.0182
Standard 3	1.0000	—	0.0349
Standard 4	2.0000	—	0.0695
Standard 5	3.0000	—	0.1047



Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
SW 1	2.4436	2.78	0.0852
SW 2	1.8012	1.44	0.0628
SW 3	High	2.12	0.1344
SW 4	High	2.68	0.1865
SW 5	1.8279	1.04	0.0637
SW 6	High	2.73	0.1569
SW 7	2.7872	2.52	0.0972
SW 8	High	7.91	0.1573
SW 9	High	7.81	0.1256
SW 10	High	2.80	0.1605
SW 11	High	2.82	0.2215
SW 12	2.6220	1.15	0.0915
SW 13	2.7700	2.23	0.0966
SW 14	High	1.84	0.1298

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
SW 15	2.2880	1.46	0.0798
SW 16	2.3662	4.07	0.0825
SW 17	High	2.02	0.1162
duplo 1	1.9873	2.19	0.0693
duplo 2	1.9682	0.08	0.0686
Akurasi	2.9552	2.33	0.1031
B 3C fp 2 X	2.7318	1.50	0.0953
AP 7 fp 2 X	2.3185	2.31	0.0809

Results File

D:\GBC AAS\Flame AAS\2018\Hasil Uji\159 Fe SW tanah.res

Analysis

Filename

C:\Program Files\GBC Avanta Ver 2.02\Analysis1.anl

Element

Fe

Date

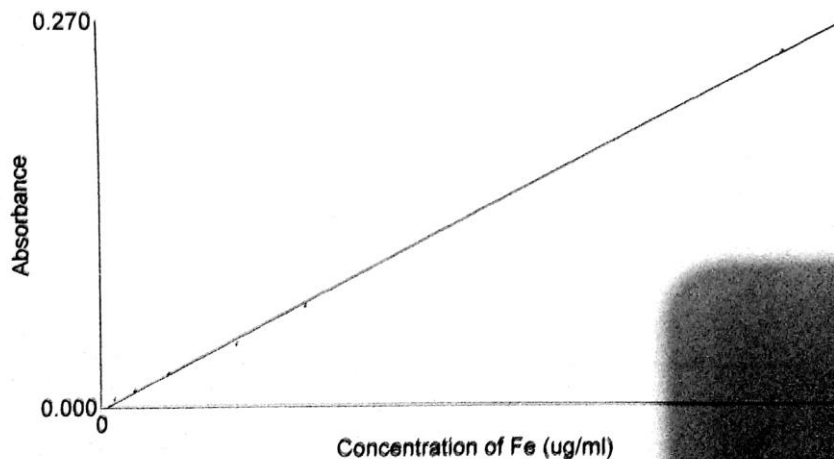
Mon Aug 13 15:47:38 2018

Full Calibration

Calibration Mode

Linear Least Squares Max Error : 0.1531 R² : 0.9992 R : 0.9996
Conc = 0.1052 + 40.5984 * Abs

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
Cal Blank	-----	6.13	0.0034
Standard 1	0.2000	HIGH	0.0053
Standard 2	0.5000	12.78	0.0111
Standard 3	1.0000	6.93	0.0227
Standard 4	2.0000	0.36	0.0429
Standard 5	3.0000	6.92	0.0687
Standard 6	10.0000	0.33	0.2451



Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
SW 3	7.8405	HIGH	0.1905
SW 4	4.2706	4.45	0.1026
SW 6	4.5615	3.48	0.1098
SW 8	3.4018	0.40	0.0812
SW 9	2.3232	11.94	0.0546
SW 10	2.6832	1.70	0.0635
SW 11	5.3654	4.01	0.1298
SW 14	4.2435	4.05	0.1019
SW 17	3.1095	5.89	0.0740
Duplo 1	1.8820	2.47	0.0435
Duplo 2	1.8793	3.09	0.0437
Akurasi	2.7292	2.30	0.0645

Execution

Results File

D:\GBC AAS\Flame AAS\2018\Hasil Uji\158 Mn 3.res

Analysis

Filename

C:\Program Files\GBC Avanta Ver 2.02\Analysis1.anl

Element

Mn,

Date

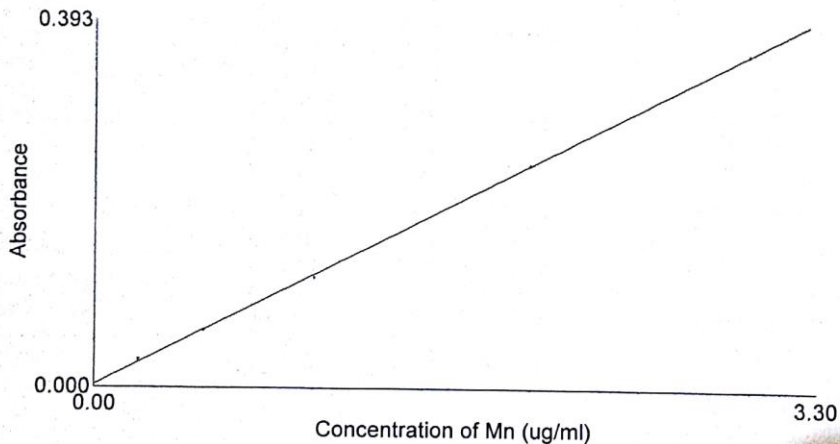
Tue Jan 01 00:17:59 2002

Full Calibration

Calibration Mode

Linear Least Squares Max Error : 0.0284 R² : 0.9997 R : 0.9999
Conc = -0.0197 + 8.4570 * Abs

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
Cal Blank	-----	HIGH	0.0008
Standard 2	0.2000	7.77	0.0290
Standard 3	0.5000	1.65	0.0606
Standard 4	1.0000	1.67	0.1172
Standard 5	2.0000	1.85	0.2393
Standard 5	3.0000	0.72	0.3578



Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
SW 1	1.9828	6.21	0.2368
SW 2	1.2248	1.26	0.1472
SW 3	0.6872	2.75	0.0836
SW 4	1.3229	3.79	0.1588
SW 5	0.7433	6.77	0.0902
SW 6	1.3181	0.56	0.1582
SW 7	0.6996	3.36	0.0851
SW 8	2.7318	0.23	0.3254
SW 9	High	1.05	0.4169
SW 10	0.9592	HIGH	0.1158
SW 11	1.5112	1.46	0.1810
Duplo 1	0.4586	3.01	0.0566
Duplo 2	0.4726	3.67	0.0582
Akurasi	0.9344	0.63	0.1128

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
SW 12	2.9878	1.44	0.3556
SW 13	2.8048	2.49	0.3340
SW 14	3.0416	0.75	0.3620
SW 9 20	2.2847	0.95	0.2725
Duplo 1	0.4377	2.69	0.0541
Duplo 2	0.4509	2.14	0.0557
Akurasi	0.8930	0.28	0.1079
A 260	0.5287	2.93	0.0649
A 261	0.5200	0.36	0.0638
A 262	0.4972	1.52	0.0611
A 263	0.5443	1.37	0.0667
A 264	0.5513	1.05	0.0675
A 265	0.5380	2.32	0.0660
A 266	0.5082	1.94	0.0624
A 267	0.5369	2.47	0.0658
A 268	0.5527	1.92	0.0677
A 269	0.6787	3.02	0.0826
A 270	0.7131	1.68	0.0867
A 271	0.5623	2.40	0.0688
A 272	0.4941	2.12	0.0608
A 273	0.4712	0.81	0.0581
duplo 1	0.4323	0.76	0.0535
Duplo 2	0.4436	2.28	0.0548
A 274	0.5837	3.02	0.0714
A 275	0.5101	2.97	0.0627
A 276	0.2982	4.93	0.0376
A 277	0.5186	4.70	0.0637
A 278	0.5149	2.06	0.0632
SW 15 20	1.5250	5.49	0.1827
SW 16 20	2.2125	0.52	0.2640
SW 17 20	1.2876	1.09	0.1546
Duplo 1	0.4239	2.10	0.0525
Duplo 2	0.4315	2.66	0.0534

Results File

D:\GBC AAS\Flame AAS\2018\Hasil Uji\160 Pb.res

Analysis

Filename

C:\Program Files\GBC Avanta Ver 2.02\Analysis1.anl

Element

Pb,

Date

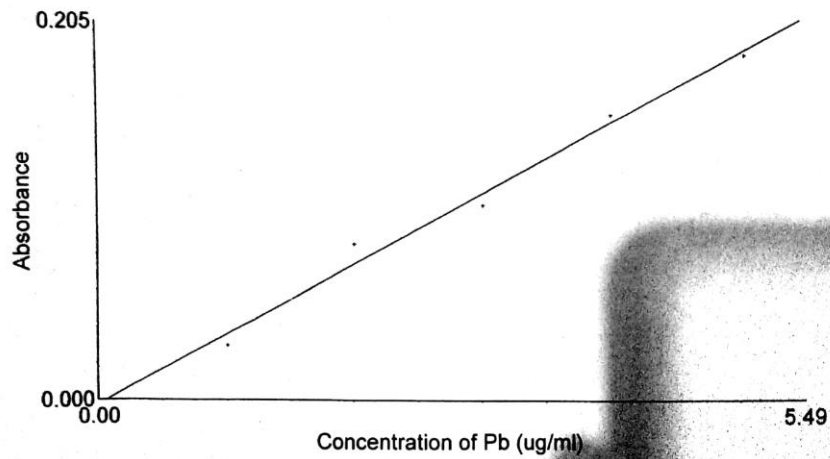
Mon Aug 20 10:12:56 2018

Full Calibration

Calibration Mode

Linear Least Squares Max Error : 0.2845 R² : 0.9852 R : 0.992
Conc = 0.0753 + 26.0417 * Abs

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
Cal Blank	—	5.77	0.0052
Standard 1	1.000	3.77	0.0295
Standard 2	2.000	3.78	0.0848
Standard 3	3.000	1.14	0.1059
Standard 4	4.000	0.55	0.1548
Standard 5	5.000	2.84	0.1865



Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
DUPLO 1	2.790	1.81	0.1042
DUPLO 2	2.926	1.60	0.1095
AKURASI	4.025	1.92	0.1517
AKURASI	4.163	2.96	0.1570
K 1E	0.061	HIGH	-0.0005
K 2E	-0.056	5.74	-0.0050
K 3E	-0.009	19.88	-0.0032
K 4E	-0.043	HIGH	-0.0045
K 5E	-0.018	HIGH	-0.0036
K 6E	-0.032	12.18	-0.0041
V 1E	-0.060	0.02	-0.0052
V 2E	-0.047	13.30	-0.0047
V 3E	0.045	HIGH	-0.0012
V 4E	-0.045	HIGH	-0.0046
V 5E	-0.018	HIGH	-0.0036
V 6E	-0.005	HIGH	-0.0031
DUPLO 1	2.837	1.09	0.1060
DUPLO 2	3.061	2.75	0.1147
DUPLO 2	3.058	2.25	0.1145
AKURASI	3.931	2.04	0.1481
C 1E	-0.015	HIGH	-0.0035
C 2E	-0.057	4.57	-0.0051
C 3E	-0.050	11.03	-0.0048
C 4E	-0.059	1.13	-0.0052
S 1	-0.060	0.00	-0.0052
S 2	0.004	HIGH	-0.0027
S 1	-0.017	14.52	-0.0035
S 2	-0.060	0.00	-0.0052
S 3	2.388	3.52	0.0888
S 4	5.314	1.11	0.2012
S 5	1.609	1.48	0.0589
S 6	0.058	HIGH	-0.0007
DUPLO 1	2.638	2.47	0.0984
DUPLO 1	2.573	0.79	0.0959
DUPLO 2	2.608	2.41	0.0973
DUPLO 2	2.630	1.20	0.0981
AKURASI	3.463	0.66	0.1301
AKURASI	3.449	2.23	0.1296
S 7	3.040	1.98	0.1138
S 8	1.873	2.55	0.0690
S 9	1.535	3.54	0.0560
S 10	1.759	1.70	0.0646
S 11	1.553	1.95	0.0567
S 12	-0.060	0.00	-0.0052
S 13	-0.060	0.02	-0.0052
S 14	0.177	HIGH	0.0039
S 15	0.010	HIGH	-0.0025
S 16	0.223	HIGH	0.0057
S 17	0.084	HIGH	0.0003

Results File

D:\GBC AAS\Flame AAS\2018\Hasil Uji\163 Zn.res

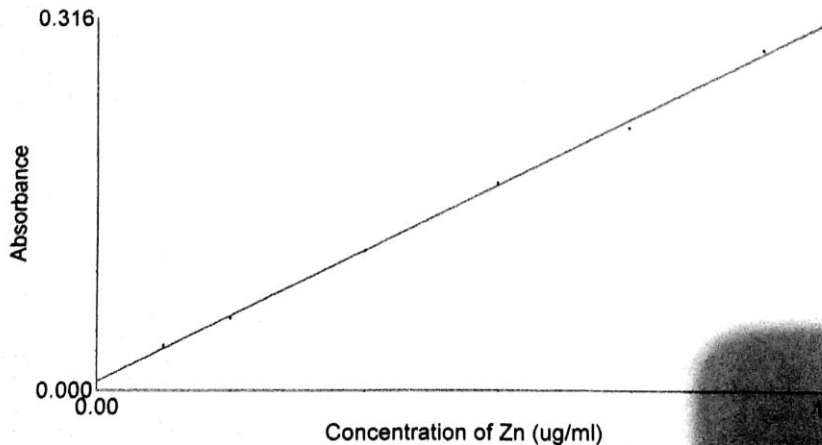
Analysis
 Filename
 Element
 Date

C:\Program Files\GBC Avanta Ver 2.02\Analysis1.anl
 Zn,
 Mon Aug 20 15:59:55 2018

Full Calibration
 Calibration Mode

Linear Least Squares Max Error : 0.0224 R² : 0.9984 R : 0.9992
 Conc = -0.0254 + 3.6055 * Abs

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
Table Blank	-----	-----	0.0000
Standard 2	0.1000	-----	0.0375
Standard 3	0.2000	-----	0.0602
Standard 4	0.4000	-----	0.1175
Standard 5	0.6000	-----	0.1760
Standard 5	0.8000	-----	0.2227
Standard 6	1.0000	-----	0.2883



Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
Duplo 2	0.2547	0.68	0.0777
akurasi	0.3589	1.94	0.1066
SW 1	1.0940	0.20	0.3105
SW 2	0.6985	0.86	0.2008
SW 3	0.1307	3.06	0.0433
SW 4	0.5536	HIGH	0.1606
SW 5	0.1152	11.06	0.0390
SW 6	0.4445	1.06	0.1303
SW 7	0.1796	4.83	0.0569
SW 8	0.0557	6.67	0.0225
SW 9	0.0155	HIGH	0.0113
SW 10	0.0262	3.21	0.0143
SW 11	0.0448	5.93	0.0195

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
SW 12	0.0125	15.34	0.0105
SW 13	-0.0032	HIGH	0.0062

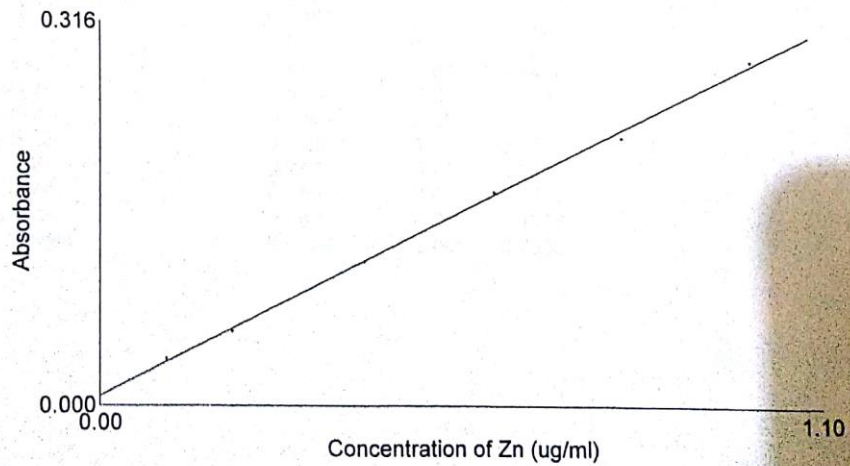
Analysis

Filename C:\Program Files\GBC Avanta Ver 2.02\Analysis1.anl
 Element Zn,
 Date Mon Aug 20 16:05:47 2018

Full Calibration
 Calibration Mode

Linear Least Squares Max Error : 0.0224 R² : 0.9984 R : 0.9992
 Conc = -0.0254 + 3.6055 * Abs

Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
Table Blank	-----	-----	0.0000
Standard 2	0.1000	-----	0.0375
Standard 3	0.2000	-----	0.0602
Standard 4	0.4000	-----	0.1175
Standard 5	0.6000	-----	0.1760
Standard 5	0.8000	-----	0.2227
Standard 6	1.0000	-----	0.2883



Sample Label	Conc. (ug/ml)	%RSD	Mean Abs.
SW 13	0.1343	1.36	0.0443
SW 14	0.2178	2.45	0.0674
SW 15	0.1283	3.41	0.0426
SW 16	0.0916	4.98	0.0324
SW 17	0.1634	2.42	0.0523
AP 1	0.3214	1.66	0.0962
AP 2	0.4929	1.24	0.1437
AP 3	0.5835	0.93	0.1689