

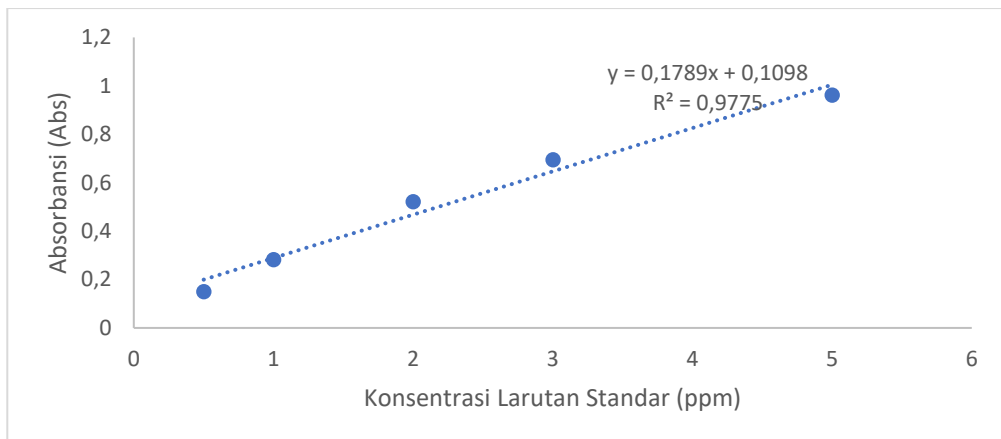
lampiran 1 Perhitungan Konsentrasi Perak Pada Air Rendaman

A. Perhitungan Kurva Standar

No	Kode	X	y	x.y	x ²
1	Standar 1	0,5	0,1495	0,07475	0,25
2	Standar 2	1	0,2814	0,2814	1
3	Standar 3	2	0,5205	1,041	4
4	Standar 4	3	0,6942	2,0826	9
5	Standar 5	5	0,9613	4,8065	25
Jumlah		11,5	2,6069	8,28625	39,25

$$\text{Nilai } b = \frac{\sum x.y - \left(\frac{\sum x.\sum y}{n}\right)}{\sum x^2 - \left(\frac{(\sum x)^2}{n}\right)} = \frac{8,28625 - \left(\frac{11,5 \times 2,6069}{5}\right)}{39,25 - \left(\frac{(11,5)^2}{5}\right)} = 0,1789$$

$$\text{Nilai } a = \frac{(\sum y) - (b.\sum x)}{n} = \frac{(2,6069) - (0,1789 \times 11,5)}{5} = 0,1098$$



$$Y = bX + a$$

$$Y = 0,1789 X + 0,1098$$

B. Data Absorbansi Sampel pada AAS :

No	Kode Sampel	Absorbansi (y)
1	1	0,2512
2	3	0,2189
3	6	0,2799
4	12	0,31
5	24	0,324

C. Contoh perhitungan konsentrasi perak terlepas pada air rendaman 1 jam

$$Y = 0,1789 X + 0,1098$$

$$0,2512 = 0,1789 X + 0,1098$$

$$X = (0,2512 - 0,1098) / 0,1789$$

$$= 0,7904 \text{ mg/L}$$

No	Waktu (h)	Konsentrasi Perak (mg/L)
1	1	0,7904
2	3	0,6098
3	6	0,9508
4	12	1,1191
5	24	1,1973

$$FP = \frac{10}{25}$$

No	Waktu (h)	Konsentrasi Perak x FP(mg/L)
1	1	0,3161
2	3	0,2439
3	6	0,3803
4	12	0,4476
5	24	0,4789

D. Hasil Atomic Absorption Spectroscopy (AAS)



No. Dok : Form-06/Hasil Uji Rev. 2
 Tgl. Terbit : 14 Maret 2013

Hasil Analisis Spektrofotometer Serapan Atom (SSA)

Sampel : Cair
 Kode Sampel : 1762/C/AAS
 Asal Sampel : UII
 Tanggal diterima : 15 Mei 2018
 Tanggal dianalisis : 23 Mei 2018
 Parameter : Ag

No	Sample	Seq No.	EI	Standar	Mean Sig (Absorbance)	Limit Detection from standard	Mean Samp	Std Dev	Samp Units
1	Calib Blank	2	Ag	0	-0.0005			0.00020	mg/L
2	std 1	3	Ag	0.5	0.1495	0.0007		0.00040	mg/L
3	std 2	4	Ag	1	0.2814	0.0007		0.00030	mg/L
4	std 3	5	Ag	2	0.5205	0.0007		0.00260	mg/L
5	std 4	6	Ag	3	0.6942	0.0007		0.00120	mg/L
6	std 5	7	Ag	5	0.9613	0.0007		0.00190	mg/L
7									
8									
9									
10	1762-1	9	Ag		0.2512		0.9586	0.00260	mg/L
11	1762-2	10	Ag		0.2189		0.7897	0.00180	mg/L
12	1762-3	11	Ag		0.2799		1.1087	0.00470	mg/L
13	1762-4	12	Ag		0.3100		1.2661	0.00410	mg/L
14	1762-5	13	Ag		0.3240		1.3393	0.00420	mg/L
15									

Jogjakarta, 23 Mei 2018