

LAMPIRAN 1. Hasil Uji Laboratorium UGM
 Laboratorium Uji
 TEKNOLOGI PANGAN DAN HASIL PERTANIAN
 Universitas Gajah Mada
 Jl.Sosio Yustisia 1,Bulaksumur,Yogyakarta
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HASIL ANALISA
 Nomor: 424 / HA / VII / 2004

Lab. Pengujian : KBP.FTP.UGM
 Tanggal Pengujian : 21-24 Juni 2004

No	Kode Sample	Macam Analisa	Hasil Analisa (ppm)
1	Gadung Luar	HCN	1257.08ppm
2	Gadung Pangkal	HCN	721.53ppm
3	Gadung Ujung	HCN	757.810ppm
4	Gadung Dalam	HCN	1734.26ppm
5	Uwi Luar	HCN	348.488ppm
6	Uwi Pangkal	HCN	119.15ppm
7	Uwi Ujung	HCN	35.846ppm
8	Uwi Dalam	HCN	120.507ppm

Diperiksa oleh Penyelia

Dilaporkan oleh



met Rahardjo

(.....)

LAMPIRAN 2. Uji Anova 2 Arah Potensi Sianogenik

	waktu	lokasi	ulangan	bhn_1	bhn_2
1	1.00	1.00	1.00	236.37	153.76
2	1.00	1.00	2.00	277.93	268.47
3	1.00	1.00	3.00	295.67	181.97
4	1.00	1.00	4.00	337.30	221.50
5	1.00	1.00	5.00	300.07	208.11
6	1.00	1.00	6.00	231.06	244.59
7	1.00	2.00	1.00	399.34	330.83
8	1.00	2.00	2.00	403.23	296.80
9	1.00	2.00	3.00	410.98	188.54
10	1.00	2.00	4.00	310.04	269.47
11	1.00	2.00	5.00	389.97	313.53
12	1.00	2.00	6.00	311.38	207.75
13	1.00	3.00	1.00	207.34	100.49
14	1.00	3.00	2.00	224.70	110.72
15	1.00	3.00	3.00	220.14	104.55
16	1.00	3.00	4.00	205.52	165.79
17	1.00	3.00	5.00	199.73	105.38
18	1.00	3.00	6.00	225.87	111.54
19	1.00	4.00	1.00	207.79	347.38
20	1.00	4.00	2.00	190.83	310.69
21	1.00	4.00	3.00	292.12	294.52
22	1.00	4.00	4.00	329.29	230.64
23	1.00	4.00	5.00	278.16	108.77
24	1.00	4.00	6.00	275.61	142.80
25	2.00	1.00	1.00	250.40	129.35
26	2.00	1.00	2.00	236.00	129.52
27	2.00	1.00	3.00	229.18	144.58
28	2.00	1.00	4.00	200.38	139.73
29	2.00	1.00	5.00	241.10	133.02
30	2.00	1.00	6.00	236.46	140.40
31	2.00	2.00	1.00	72.52	129.21
32	2.00	2.00	2.00	135.91	118.61
33	2.00	2.00	3.00	138.60	146.06
34	2.00	2.00	4.00	258.98	125.50
35	2.00	2.00	5.00	160.15	113.84
36	2.00	2.00	6.00	231.06	118.75
37	2.00	3.00	1.00	115.14	61.79
38	2.00	3.00	2.00	123.05	74.35

	waktu	lokasi	ulangan	bhn_1	bhn_2
39	2.00	3.00	3.00	119.18	94.92
40	2.00	3.00	4.00	112.57	85.13
41	2.00	3.00	5.00	116.03	57.49
42	2.00	3.00	6.00	118.62	61.73
43	2.00	4.00	1.00	260.78	57.54
44	2.00	4.00	2.00	246.97	59.65
45	2.00	4.00	3.00	259.13	173.84
46	2.00	4.00	4.00	249.94	159.47
47	2.00	4.00	5.00	246.41	84.08
48	2.00	4.00	6.00	241.39	71.50
49	3.00	1.00	1.00	65.42	128.08
50	3.00	1.00	2.00	97.22	247.44
51	3.00	1.00	3.00	77.07	104.57
52	3.00	1.00	4.00	142.70	135.52
53	3.00	1.00	5.00	59.81	96.76
54	3.00	1.00	6.00	124.71	67.67
55	3.00	2.00	1.00	129.53	83.01
56	3.00	2.00	2.00	150.38	68.52
57	3.00	2.00	3.00	62.00	88.49
58	3.00	2.00	4.00	155.16	57.53
59	3.00	2.00	5.00	59.81	122.88
60	3.00	2.00	6.00	178.05	86.09
61	3.00	3.00	1.00	72.89	59.37
62	3.00	3.00	2.00	99.80	62.12
63	3.00	3.00	3.00	62.17	57.53
64	3.00	3.00	4.00	59.60	59.65
65	3.00	3.00	5.00	65.27	115.80
66	3.00	3.00	6.00	96.76	64.93
67	3.00	4.00	1.00	177.43	116.68
68	3.00	4.00	2.00	176.63	69.17
69	3.00	4.00	3.00	173.97	62.00
70	3.00	4.00	4.00	112.18	66.85
71	3.00	4.00	5.00	187.34	76.52
72	3.00	4.00	6.00	101.56	59.50

Non-linear Regression

All the derivatives will be calculated numerically.

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Iteration	Residual SS	A	B	C	D
1	4146910.479	-1.0000000	-1.0000000	-1.0000000	-1.0000000
1.1	68715.64790	-18.173974	255.767473	-887.09018	967.299855
2	68715.64790	-18.173974	255.767473	-887.09018	967.299855
2.1	68715.64788	-18.173888	255.766195	-887.08387	967.290118

Run stopped after 4 model evaluations and 2 derivative evaluations.
 Iterations have been stopped because the relative reduction between successive residual sums of squares is at most SSSCON = 1.000E-08

Nonlinear Regression Summary Statistics Dependent Variable Y

Source	DF	Sum of Squares	Mean Square
Regression	4	1883519.33000	470879.83250
Residual	3	68715.64788	22905.21596
Uncorrected Total	7	1952234.97789	
(Corrected Total)	6	714482.21161	

R squared = 1 - Residual SS / Corrected SS = .90382

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
A	-18.17388780	13.523760299	-61.21252879	24.864753202
B	255.76619509	214.30360095	-426.2435080	937.77589814
C	-887.0838654	1042.0305234	-4203.290055	2429.1223239
D	967.29011754	1566.1374203	-4016.858129	5951.4383645

Asymptotic Correlation Matrix of the Parameter Estimates

	A	B	C	D
A	1.0000	-.9966	.9826	-.9542
B	-.9966	1.0000	-.9943	.9743
C	.9826	-.9943	1.0000	-.9922
D	-.9542	.9743	-.9922	1.0000

Non-linear Regression

All the derivatives will be calculated numerically.

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Iteration	Residual SS	A	B	C	D
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1	4126320.812	-1.0000000	-1.0000000	-1.0000000	-1.0000000
1.1	11433.49237	26.9354185	-519.77423	3297.28669	-6122.3307
2	11433.49237	26.9354185	-519.77423	3297.28669	-6122.3307
2.1	11433.49213	26.9350755	-519.76871	3297.25641	-6122.2777
3	11433.49213	26.9350755	-519.76871	3297.25641	-6122.2777

Run stopped after 5 model evaluations and 3 derivative evaluations.
Iterations have been stopped because the magnitude of the largest correlation between the residuals and any derivative column is at most RCON = 1.000E-08

Nonlinear Regression Summary Statistics Dependent Variable Y

Source	DF	Sum of Squares	Mean Square
Regression	4	1926279.54871	481569.88718
Residual	2	11433.49213	5716.74606
Uncorrected Total	6	1937713.04084	

(Corrected Total) 5 609485.80167

R squared = 1 - Residual SS / Corrected SS = .98124

Parameter	Estimate	Asymptotic Std. Error	Asymptotic 95 % Confidence Interval	
			Lower	Upper
A	26.935075546	15.770884455	-40.92156351	94.791714598
B	-519.7687147	267.37102918	-1670.173403	630.63597386
C	3297.2564146	1420.6921645	-2815.488605	9410.0014341
D	-6122.277733	2372.4040845	-16329.90864	4085.3531768

Asymptotic Correlation Matrix of the Parameter Estimates

	A	B	C	D
A	1.0000	-.9989	.9950	-.9879
B	-.9989	1.0000	-.9985	.9937
C	.9950	-.9985	1.0000	-.9983
D	-.9879	.9937	-.9983	1.0000

Univariate Analysis of Variance

Between-Subjects Factors

	N
WAKTU 1.00	24
2.00	24
3.00	24
LOKASI 1.00	18
2.00	18
3.00	18
4.00	18

Tests of Between-Subjects Effects

Dependent Variable: BHN_1

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	512625.022 ^a	11	46602.275	32.609	.000
Intercept	2740862.356	1	2740862.356	1917.869	.000
WAKTU	346034.738	2	173017.369	121.066	.000
LOKASI	88864.359	3	29621.453	20.727	.000
WAKTU * LOKASI	77725.925	6	12954.321	9.065	.000
Error	85747.125	60	1429.119		
Total	3339234.503	72			
Corrected Total	598372.147	71			

a. R Squared = .857 (Adjusted R Squared = .830)

Post Hoc Tests

WAKTU

Homogeneous Subsets

BHN_1

Duncan^{a,b}

WAKTU	N	Subset		
		1	2	3
3.00	24	111.9775		
2.00	24		191.6646	
1.00	24			281.6850
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1429.119.

a. Uses Harmonic Mean Sample Size = 24.000.

b. Alpha = .05.

LOKASI

Homogeneous Subsets

BHN_1

Duncan^{a,b}

LOKASI	N	Subset	
		1	2
3.00	18	135.7989	
1.00	18		202.1583
2.00	18		219.8383
4.00	18		222.6406
Sig.		1.000	.130

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1429.119.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.



Between-Subjects Factors

		N
WAKTU	1.00	24
	2.00	24
	3.00	24
LOKASI	1.00	18
	2.00	18
	3.00	18
	4.00	18

Levene's Test of Equality of Error Variances^a

Dependent Variable: TRS_2_2

F	df1	df2	Sig.
3.858	11	60	.000

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+WAKTU+LOKASI

Tests of Between-Subjects Effects

Dependent Variable: TRS_2_2

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	9.388 ^a	5	1.878	26.914	.000
Intercept	796.179	1	796.179	11412.741	.000
WAKTU	6.695	2	3.348	47.985	.000
LOKASI	2.693	3	.898	12.867	.000
Error	4.604	66	6.976E-02		
Total	810.172	72			
Corrected Total	13.992	71			

a. R Squared = .671 (Adjusted R Squared = .646)

Estimated Marginal Means

Grand Mean

Dependent Variable: TRS_2_2

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
3.325	.031	3.263	3.388

Post Hoc Tests

WAKTU

Homogeneous Subsets

TRS_2_2

Duncan^{a,b}

WAKTU	N	Subset		
		1	2	3
3.00	24	3.0351		
2.00	24		3.1943	
1.00	24			3.7467
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 6.976E-02.

a. Uses Harmonic Mean Sample Size = 24.000.

b. Alpha = .05.

LOKASI

Homogeneous Subsets

TRS_2_2

Duncan^{a,b}

LOKASI	N	Subset		
		1	2	3
3.00	18	3.0189		
4.00	18		3.3037	
2.00	18		3.4629	3.4629
1.00	18			3.5160
Sig.		1.000	.075	.549

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 6.976E-02.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

LAMPIRAN 3. Pengambilan Sampel Gadung



Gambar Pengambilan Sampel Gadung



Gambar Gadung Pasca Panen

LAMPIRAN 4. Pengambilan Sampel Uwi



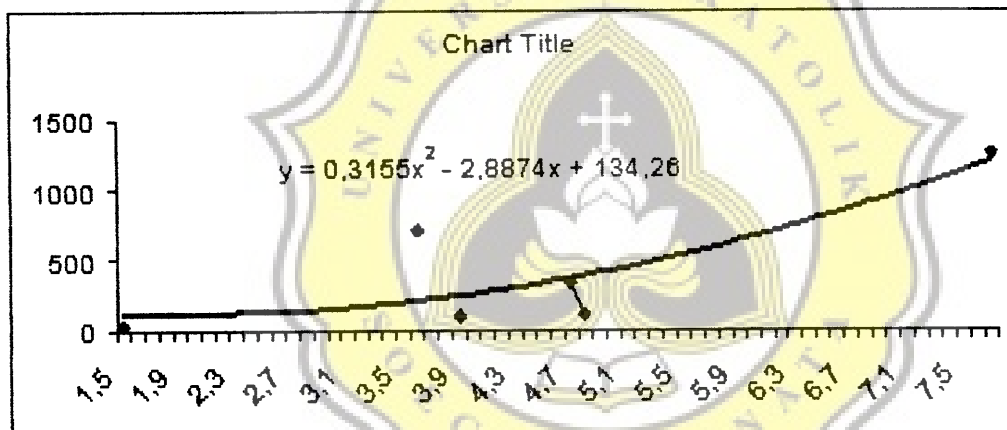
Gambar Pengambilan Sampel Uwi



Gambar Uwi Pasca Panen

LAMPIRAN 5. Persamaan Konversi Potensi Sianogenik

UNIKA	UGM
2,4492	120,507
3,2144	35,846
3,5025	119,15
3,778	348,488
4,7309	721,53
5,7186	757,81
7,7282	1257,08



LAMPIRAN 6. Tabel Konversi Potensi Sianogenik

Bahan	Waktu	Bagian	Ulangan	Pot.HCN awal	Pot.HCN Konversi
1	0	1	1	2,2533	236,37
1	0	1	2	1,5891	277,93
1	0	1	3	3,5106	295,67
1	0	1	4	4,0008	337,30
1	0	1	5	5,9411	300,07
1	0	1	6	4,2508	231,06
1	0	2	1	7,2165	399,34
1	0	2	2	5,6041	403,23
1	0	2	3	7,9819	410,98
1	0	2	4	8,7689	310,04
1	0	2	5	8,7596	389,97
1	0	2	6	8,0382	311,38
1	0	3	1	1,2	207,34
1	0	3	2	0,2868	224,70
1	0	3	3	0,8865	220,14
1	0	3	4	0,4759	205,52
1	0	3	5	2,5504	199,73
1	0	3	6	2,5504	225,87
1	0	4	1	2,6429	207,79
1	0	4	2	3,026	190,83
1	0	4	3	5,0192	292,12
1	0	4	4	6,418	329,29
1	0	4	5	4,8532	278,16
1	0	4	6	4,8222	275,61
1	3	1	1	6,5468	250,40
1	3	1	2	4,3478	236,00
1	3	1	3	4,6918	229,18
1	3	1	4	3,2064	200,38
1	3	1	5	5,8611	241,10
1	3	1	6	6,6014	236,46
1	3	2	1	0,989	72,52
1	3	2	2	2,7109	135,91
1	3	2	3	2,7641	138,60
1	3	2	4	4,6163	258,98
1	3	2	5	3,1642	160,15
1	3	2	6	4,2508	231,06
1	3	3	1	3,2237	115,14
1	3	3	2	3,4038	123,05
1	3	3	3	3,5788	119,18
1	3	3	4	4,2981	112,57
1	3	3	5	4,5905	116,03
1	3	3	6	4,8961	118,62
1	3	4	1	3,4476	260,78

Bahan	Waktu	Bagian	Ulangan	Pot.HCN awal	Pot.HCN Konversi
1	3	4	2	2,808	246,97
1	3	4	3	4,6182	259,13
1	3	4	4	4,5009	249,94
1	3	4	5	1,3877	246,41
1	3	4	6	2,0394	241,39
1	7	1	1	0,6521	65,42
1	7	1	2	1,8137	97,22
1	7	1	3	1,1709	77,07
1	7	1	4	2,8439	142,70
1	7	1	5	0,2955	59,81
1	7	1	6	2,4786	124,71
1	7	2	1	2,5806	129,53
1	7	2	2	2,9684	150,38
1	7	2	3	0,4499	62,00
1	7	2	4	3,0755	155,16
1	7	2	5	0,2955	59,81
1	7	2	6	3,4662	178,05
1	7	3	1	1,0045	72,89
1	7	3	2	1,8839	99,80
1	7	3	3	0,461	62,17
1	7	3	4	0,2798	59,60
1	7	3	5	0,6438	65,27
1	7	3	6	1,801	96,76
1	7	4	1	3,8901	177,43
1	7	4	2	4,3009	176,63
1	7	4	3	4,4759	173,97
1	7	4	4	2,4473	112,18
1	7	4	5	3,831	187,34
1	7	4	6	1,9307	101,56
2	0	1	1	3,0501	153,75
2	0	1	2	4,7348	268,46
2	0	1	3	3,5294	181,96
2	0	1	4	4,119	221,49
2	0	1	5	3,928	208,11
2	0	1	6	4,4312	244,58
2	0	2	1	5,4557	330,83
2	0	2	2	5,0738	296,8
2	0	2	3	3,6332	188,54
2	0	2	4	4,7471	269,46
2	0	2	5	5,2647	313,53
2	0	2	6	3,9228	207,75
2	0	3	1	1,6365	100,49
2	0	3	2	1,6421	110,71
2	0	3	3	1,748	104,54

Bahan	Waktu	Bagian	Ulangan	Pot.HCN awal	Pot.HCN Konversi
2	0	3	4	3,2619	165,78
2	0	3	5	0,4461	105,37
2	0	3	6	0,2998	111,53
2	0	4	1	6,4288	347,37
2	0	4	2	6,6014	310,69
2	0	4	3	5,4557	294,51
2	0	4	4	4,4536	230,64
2	0	4	5	2,1133	108,76
2	0	4	6	3,0763	142,79
2	3	1	1	0,6249	129,34
2	3	1	2	0,1016	129,51
2	3	1	3	1,1152	144,58
2	3	1	4	0,975	139,72
2	3	1	5	0,7589	133,02
2	3	1	6	0,6135	140,39
2	3	2	1	0,1028	129,21
2	3	2	2	0,6249	118,61
2	3	2	3	2,9078	146,05
2	3	2	4	0,8727	125,49
2	3	2	5	0,4153	113,84
2	3	2	6	0,0987	118,74
2	3	3	1	0,4362	61,79
2	3	3	2	1,0645	74,34
2	3	3	3	3,2506	94,91
2	3	3	4	3,7098	85,12
2	3	3	5	0,0937	57,49
2	3	3	6	0,4319	61,72
2	3	4	1	0,0987	57,54
2	3	4	2	0,2831	59,64
2	3	4	3	3,3973	173,84
2	3	4	4	3,1521	159,46
2	3	4	5	1,4183	84,07
2	3	4	6	0,9455	71,5
2	7	1	1	2,5502	128,07
2	7	1	2	4,4684	247,43
2	7	1	3	2,0085	104,57
2	7	1	4	2,7029	135,51
2	7	1	5	1,801	96,75
2	7	1	6	0,768	67,66
2	7	2	1	1,3827	83
2	7	2	2	0,8094	68,51
2	7	2	3	1,5594	88,49
2	7	2	4	0,0978	57,53
2	7	2	5	2,4389	122,88
2	7	2	6	1,4838	86,08
2	7	3	1	0,2614	59,37

Bahan	Waktu	Bagian	Ulangan	Pot.HCN awal	Pot.HCN Konversi
2	7	3	2	0,458	62,12
2	7	3	3	0,0978	57,53
2	7	3	4	0,2831	59,64
2	7	3	5	2,2803	115,8
2	7	3	6	0,6249	64,92
2	7	4	1	2,3003	116,67
2	7	4	2	0,8404	69,17
2	7	4	3	0,4499	61,99
2	7	4	4	0,7272	66,85
2	7	4	5	1,15	76,52
2	7	4	6	0,2718	59,5



LAMPIRAN 7. Kurva Standar Sianogenik

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	KONHCN ^a	.	Enter

- a. All requested variables entered.
- b. Dependent Variable: ABSORBAN

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.985 ^a	.971	.964	9.92054E-03

- a. Predictors: (Constant), KONHCN

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.061E-02	1	1.061E-02	133.303	.000 ^a
	Residual	3.183E-04	4	7.958E-05		
	Total	1.093E-02	5			

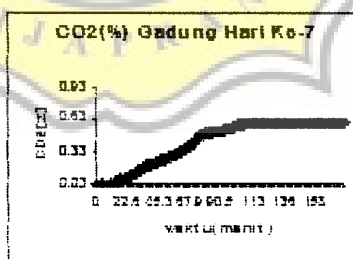
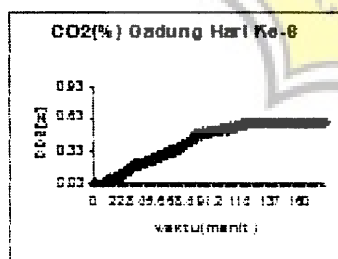
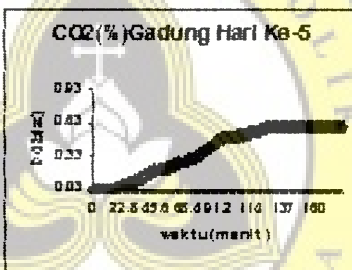
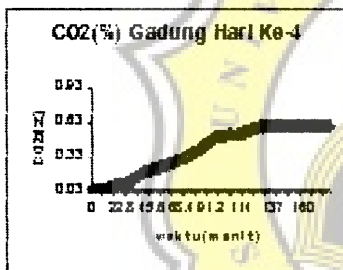
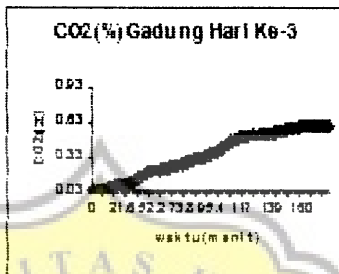
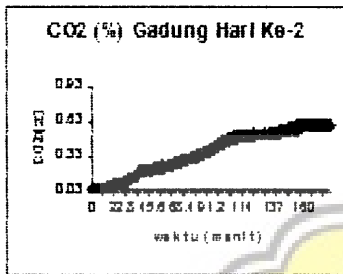
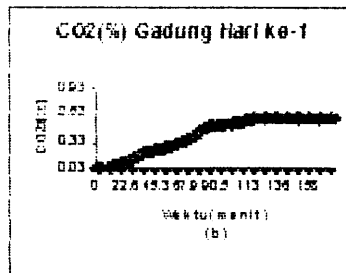
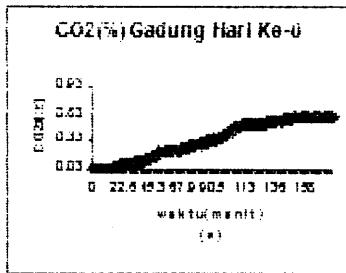
- a. Predictors: (Constant), KONHCN
- b. Dependent Variable: ABSORBAN

Coefficients^a

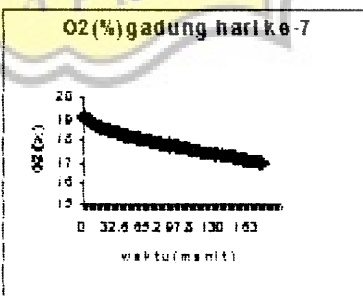
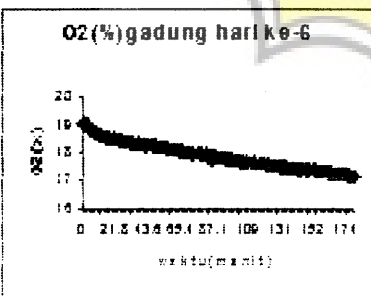
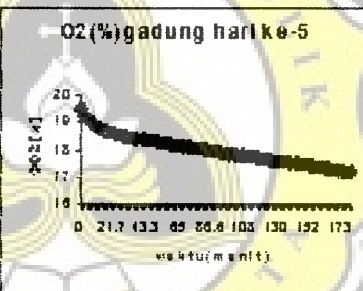
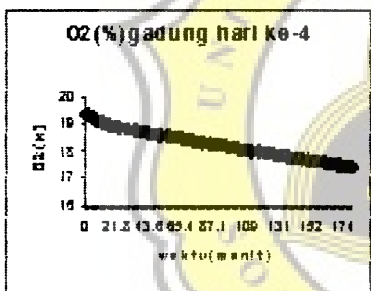
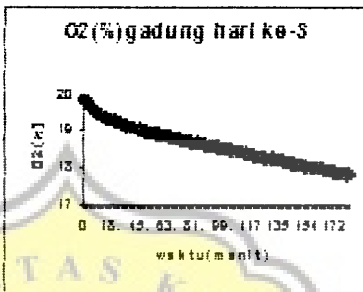
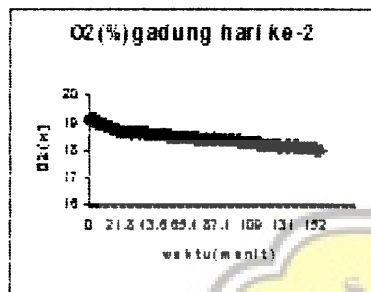
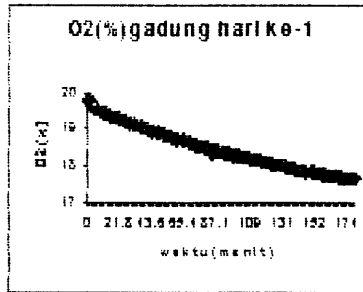
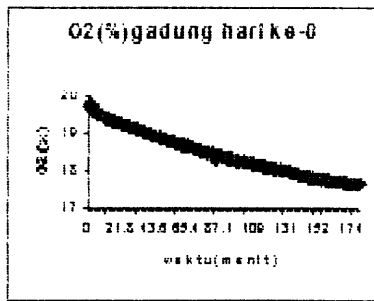
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.143E-02	.005		2.285	.084
	KONHCN	12.254	1.061	.985	11.546	.000

- a. Dependent Variable: ABSORBAN

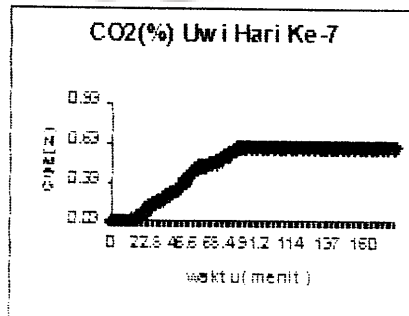
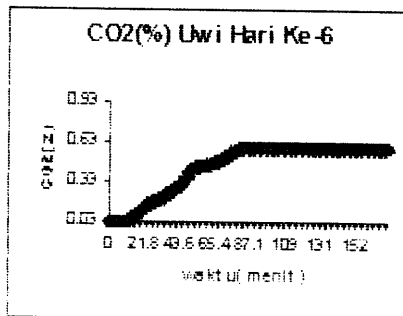
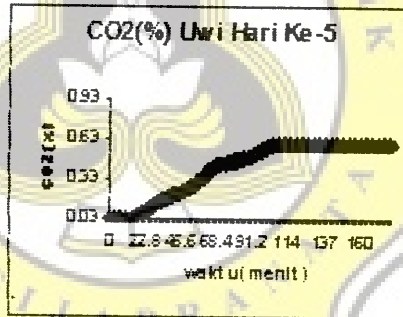
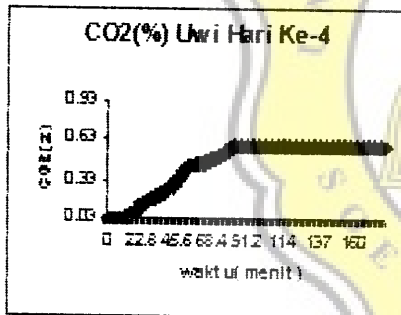
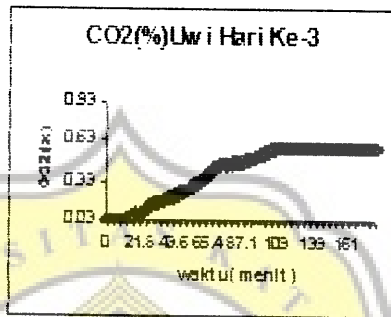
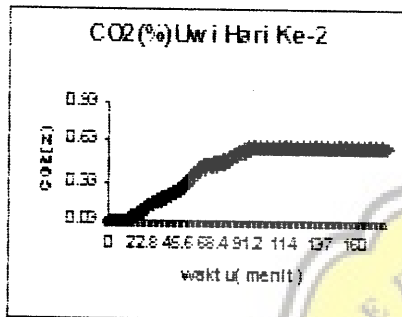
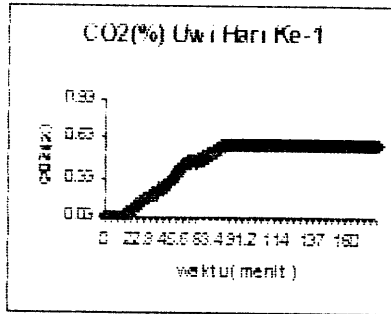
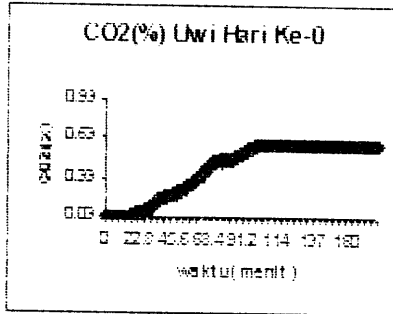
LAMPIRAN. Grafik CO₂ Gadung.



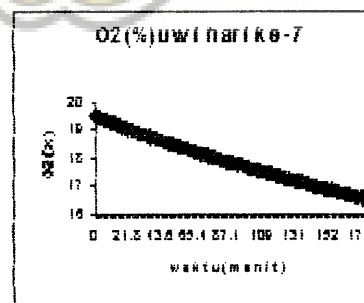
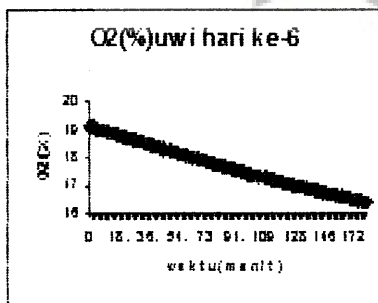
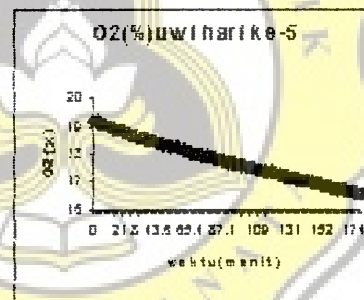
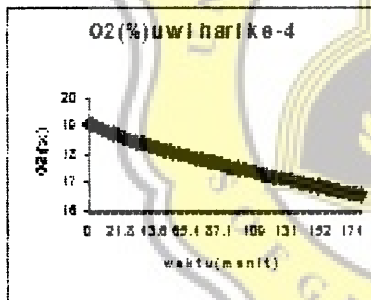
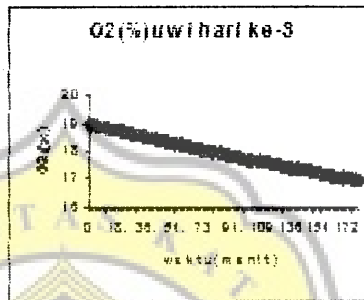
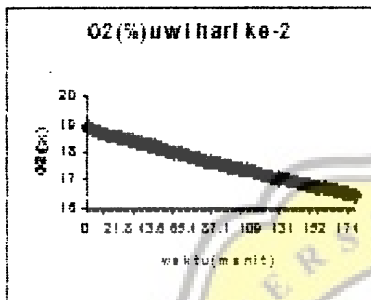
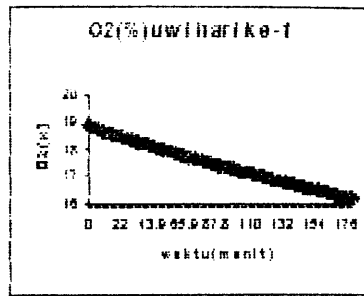
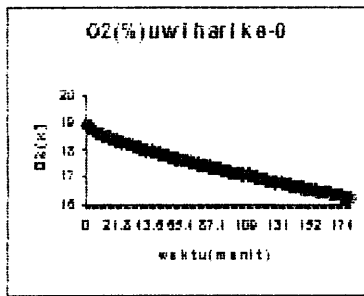
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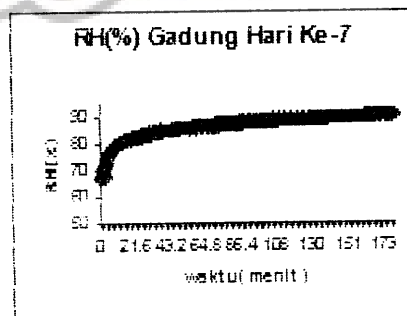
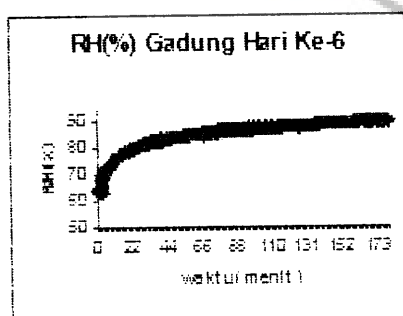
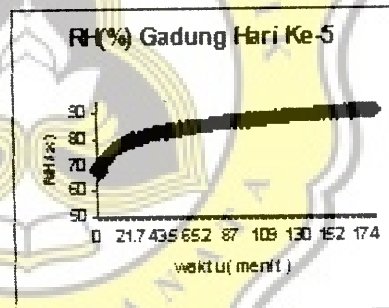
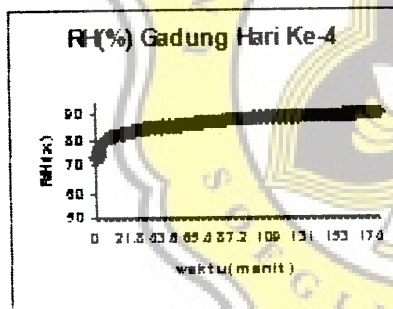
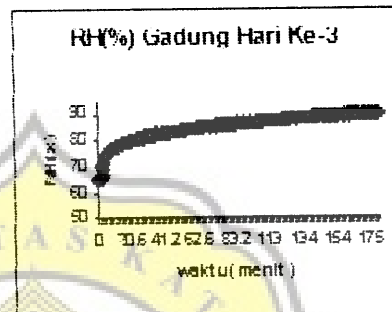
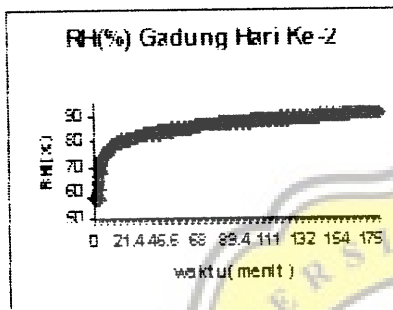
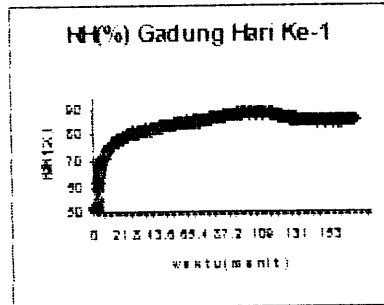
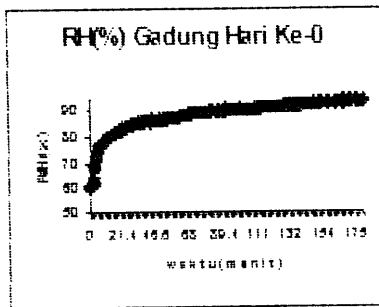
LAMPIRAN. Grafik CO₂ Uwi



LAMPIRAN. Grafik O₂ Uwi



LAMPIRAN. Grafik RH Gadung



LAMPIRAN. Grafik RH uwi

