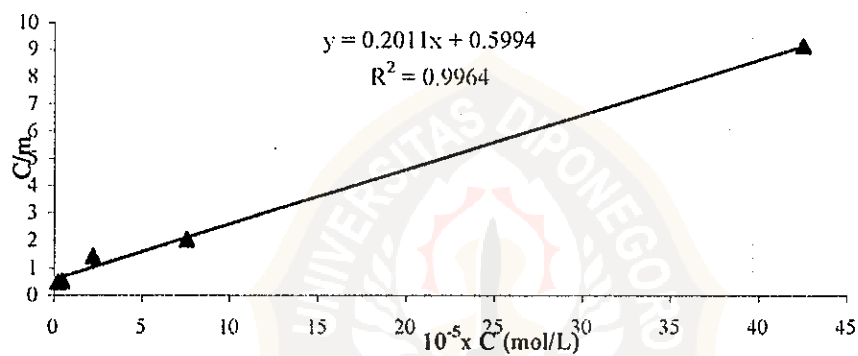


## LAMPIRAN I. Isoterm adsorpsi adsorben MBT-diatome

$C_0$ (mg/L)	[C] MBT-diatome (mg/L)	$10^{-5} \cdot m$ (mol/g)	$10^{-5} \cdot C$ (mol/L)	$C/m$
5	0.24	0.42	0.21	0.5
10	0.5	0.85	0.45	0.52941176
20	2.5	1.56	2.22	1.42307692
50	8.5	3.69	7.56	2.04878049
100	47.75	4.65	42.48	9.13548387

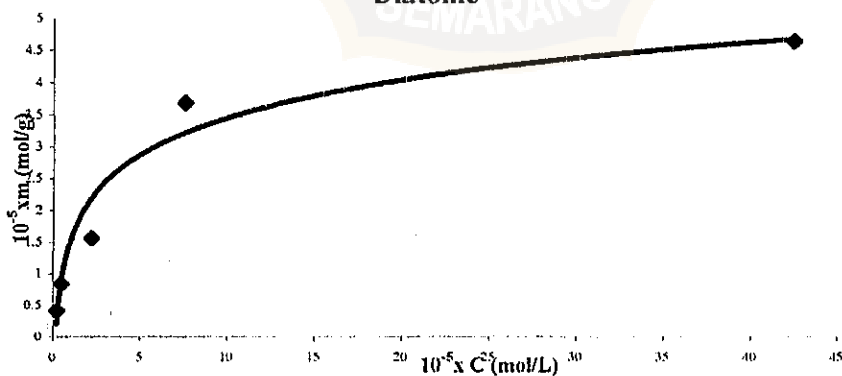
### 1.1 Kurva regresi linear C/m Vs C untuk adsorben MBT-diatome

Kurva regresi linear C/m Vs C untuk adsorben MBT-Tanah Diatome



### 1.2 Kurva isoterm adsorpsi Cd(II) pada adsorben MBT-diatome

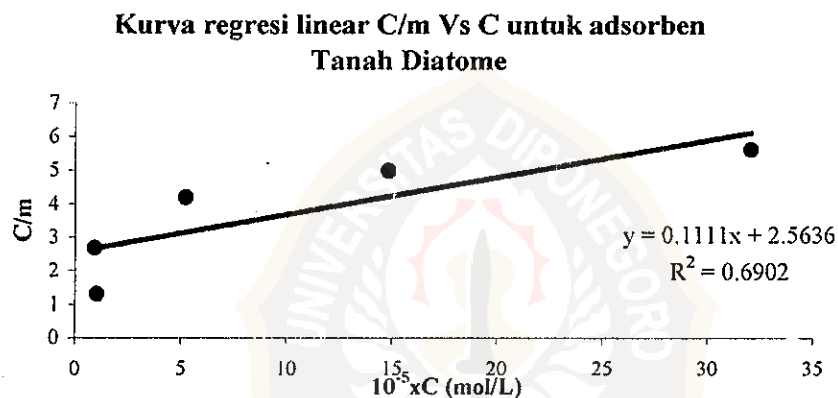
Kurva Isoterm Adsorpsi Cd (II) pada MBT-Tanah Diatome



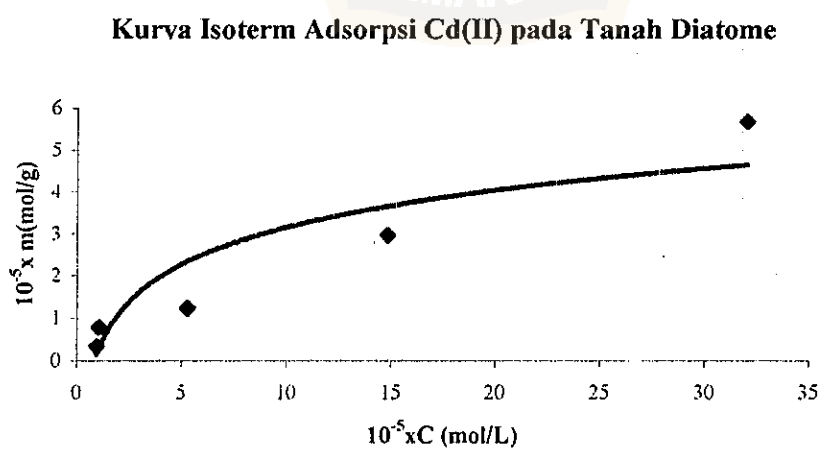
## LAMPIRAN II. Isoterm adsorpsi adsorben tanah diatome

$C_0$ (mg/L)	[C] Tanah diatome (mg/L)	$10^{-5} \cdot m$ (mol/g)	$10^{-5} \cdot C$ (mol/L)	C/m
5	1.06	0.35	0.94	2.685714
10	1.17	0.79	1.04	1.316456
20	5.9	1.25	5.25	4.2
50	16.67	2.97	14.83	4.993266
100	36	5.69	32.03	5.629174

### 2.1 Kurva regresi linear C/m Vs C untuk adsorben tanah diatome

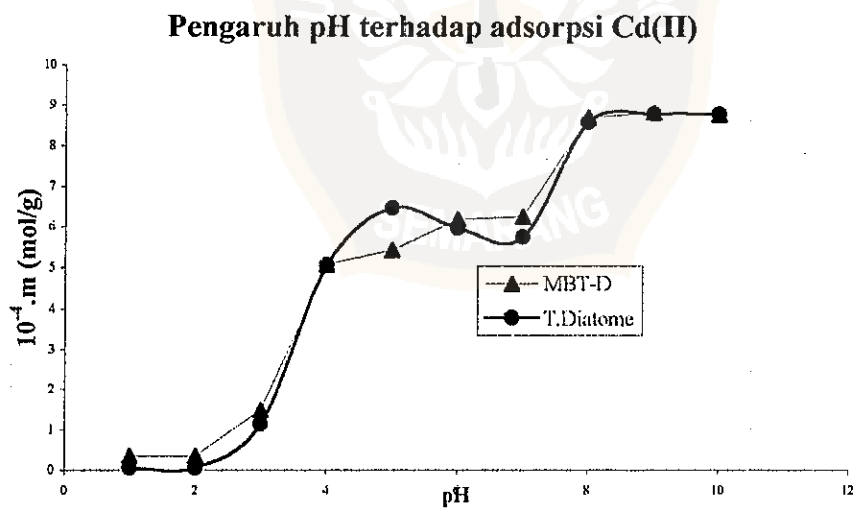


### 2.2 Kurva isoterm adsorpsi Cd(II) pada adsorben tanah diatome

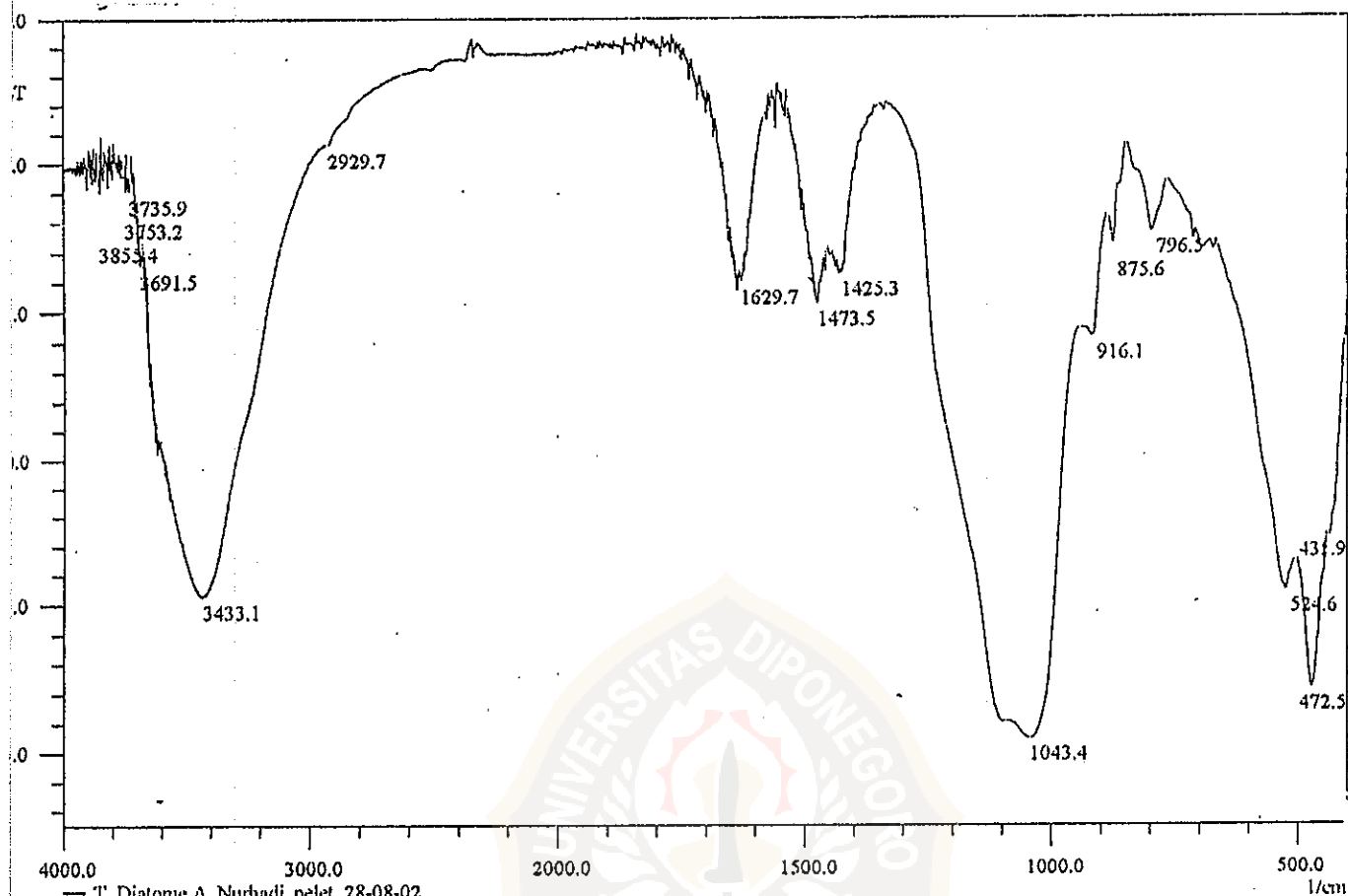


**LAMPIRAN III. Pengaruh pH terhadap adsorpsi Cd(II) dalam medium air oleh adsorben MBT-diatome dan tanah diatome.**

pH	$10^{-4}$ .m MBT-diatome (mol/g)	$10^{-4}$ .m Tanah diatome (mol/g)
1	0.36	0.07
2	0.36	0.07
3	1.5	1.15
4	5.07	5.06
5	5.43	6.48
6	6.19	5.98
7	6.25	5.75
8	8.7	8.59
9	8.82	8.8
10	8.77	8.8



## LAMPIRAN IV. Spektra Infra Merah Tanah Diatome Alam

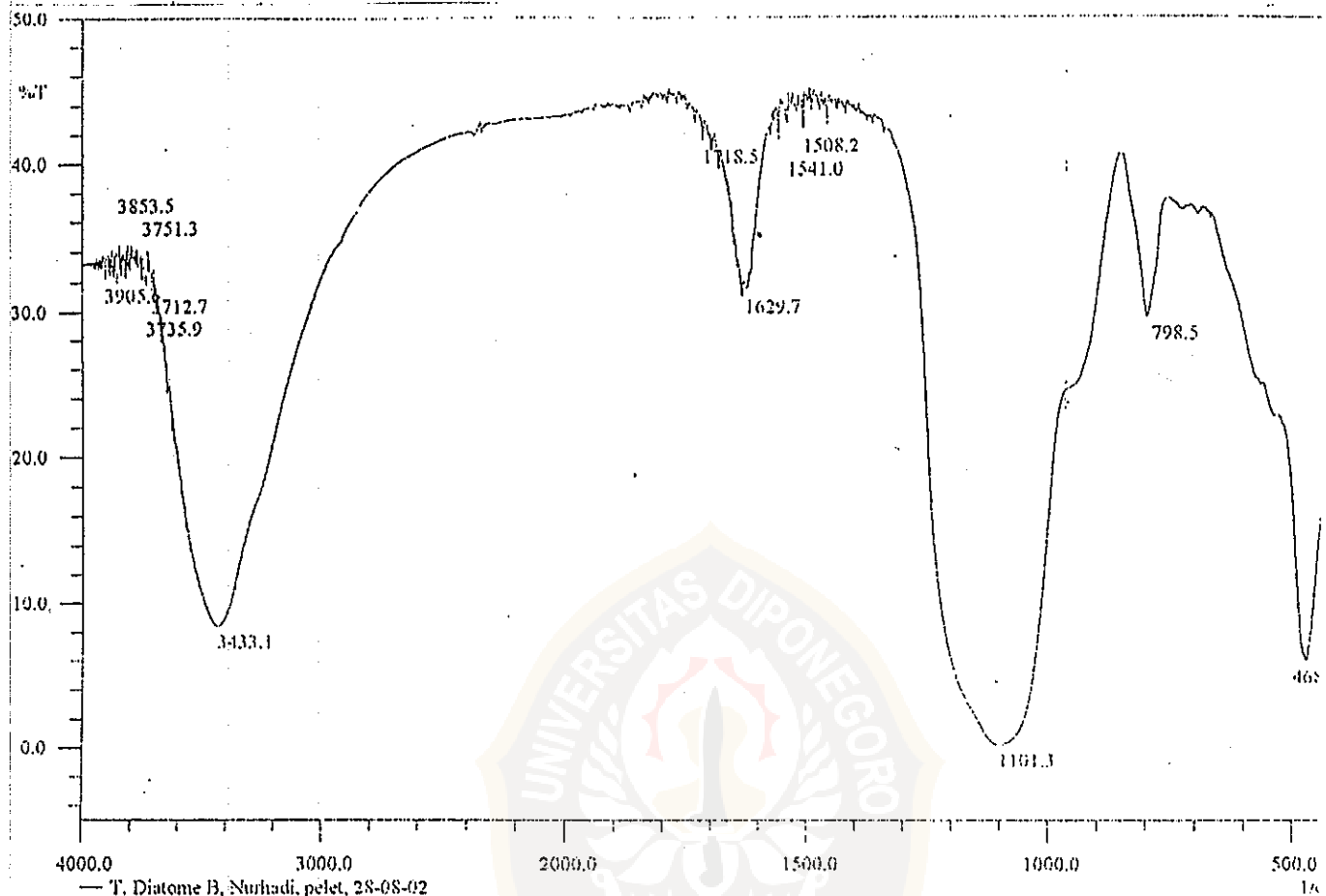


— T. Diatome A, Nurhadi, pelet, 28-08-02  
 Database of HADI.IRS, 16 Peaks  
 Threshold: 80, Noise: 1.5, No Range Selection

Pos. (1/cm) : Inten. (%T)

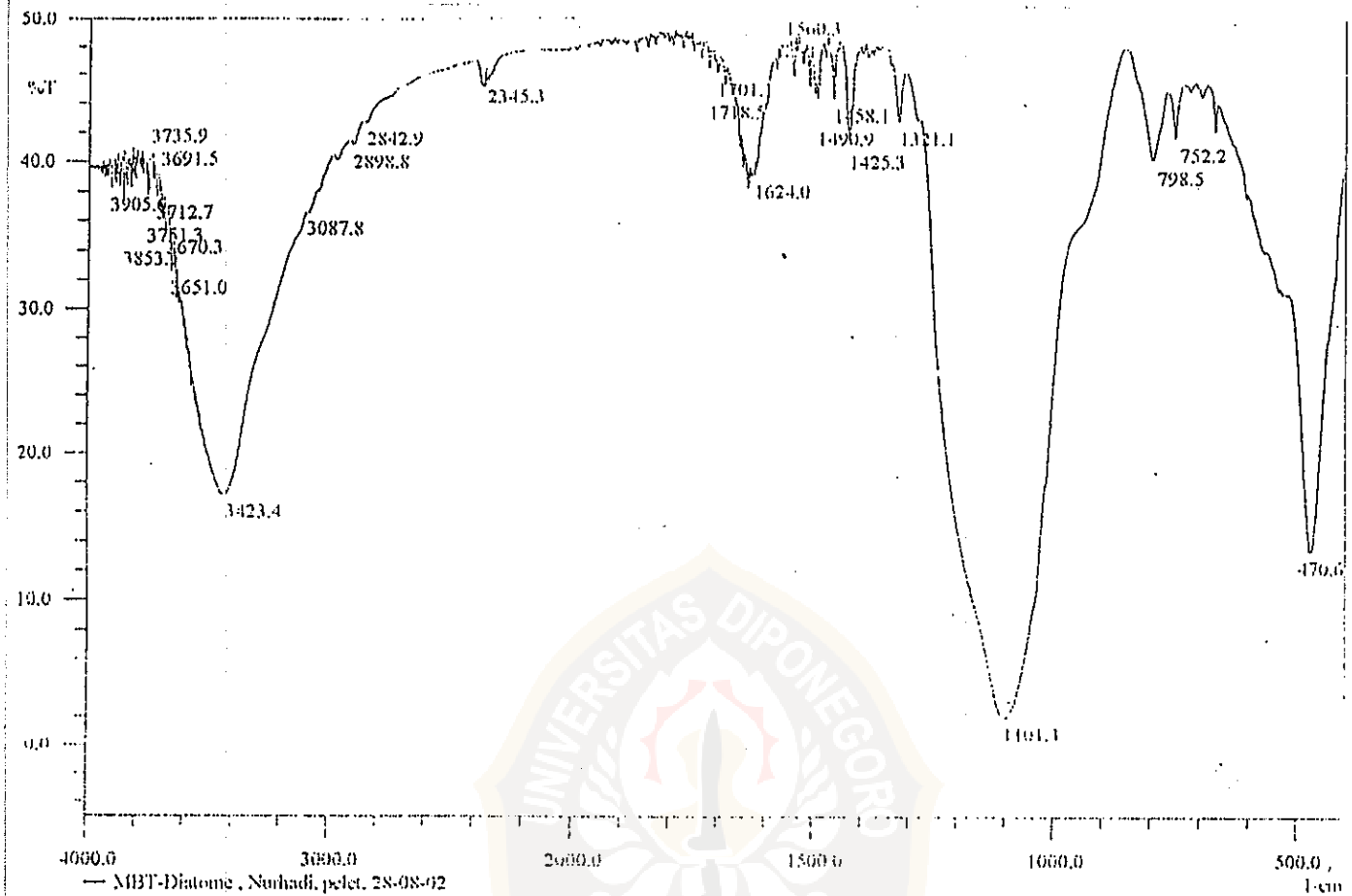
435.9	14.700
472.5	4.372
524.6	10.942
796.5	35.351
875.6	34.524
916.1	28.335
1043.4	0.991
1425.3	32.553
1473.5	30.531
1629.7	32.000
2929.7	41.250
3433.1	10.602
3691.5	33.146
3735.9	38.115
3753.2	38.141
3855.4	37.946

### LAMPIRAN V. Spektra Infra Merah Tanah Diatome Alam Setelah Terimpregnasi 2-Merkaptobenzotiazol (MBT)



Nr.	Pos. (1/cm)	Inten. (%T)
1	468.7	6.043
2	798.5	29.633
3	1101.3	0.267
4	1508.2	42.267
5	1541.0	42.639
6	1629.7	31.493
7	1718.5	41.480
8	3433.1	8.470
9	3712.7	31.469
10	3735.9	31.803
11	3751.3	31.941
12	3853.5	31.712
13	3905.6	32.210

### LAMPIRAN VI. Spektra Infra Merah MBT-Diatome

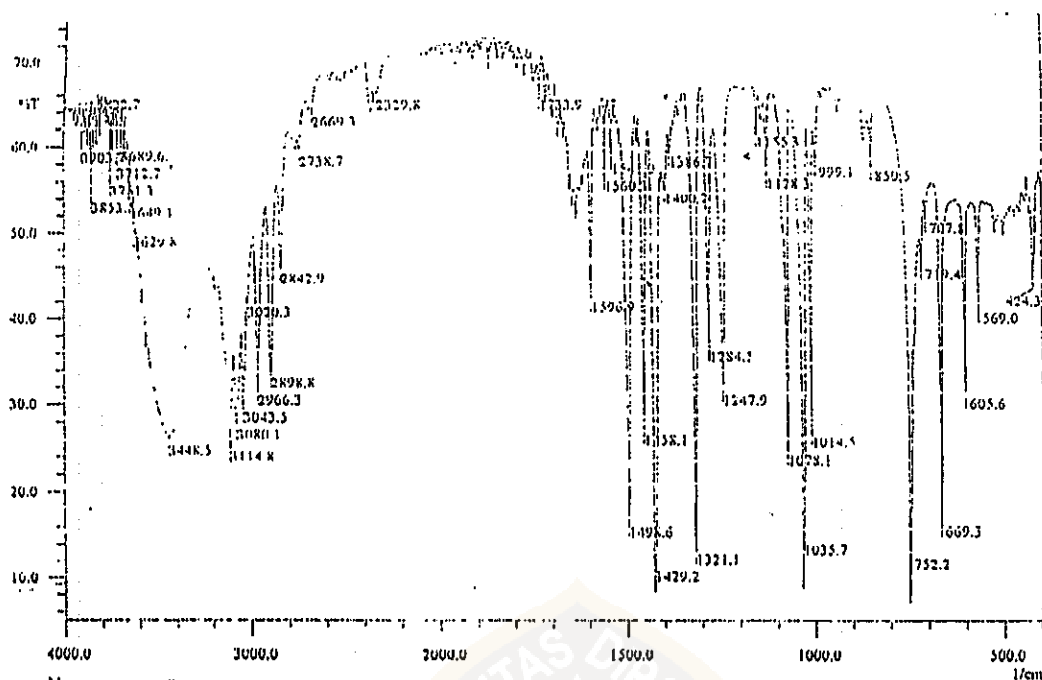


Peaktable of HAD2.IRS, 25 Peaks

Threshold: 80, Noise: 1.5, No Range Selection

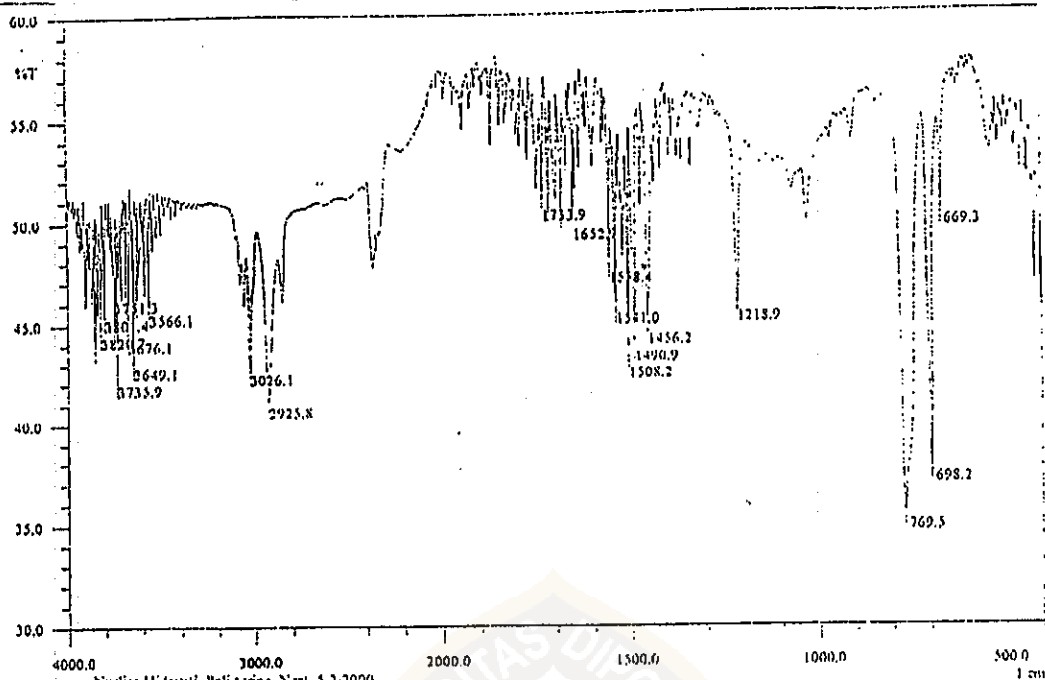
Nr.	Pos. (1/cm)	Inten. (%T)
1	470.6	13.303
2	752.2	41.489
3	798.5	40.014
4	1101.3	1.949
5	1321.1	42.573
6	1425.3	41.486
7	1458.1	44.135
8	1490.9	44.176
9	1560.3	45.652
10	1624.0	39.010
11	1701.1	45.950
12	1718.5	46.314
13	2345.3	45.449
14	2842.9	42.647
15	2898.8	41.143
16	3087.8	36.509
17	3423.4	17.136
18	3651.0	32.493
19	3670.3	35.251
20	3691.5	36.514
21	3712.7	37.645
22	3735.9	37.533
23	3751.3	37.654
24	3833.5	37.235
25	3905.6	38.178

## LAMPIRAN VII. Spektra Infra Merah dari Polistirena



Nr.	Pos. (1/cm)	Inten. (%T)
1	424.3	43.038
2	569.0	43.484
3	605.6	31.139
4	669.3	16.633
5	707.8	51.486
6	719.4	46.173
7	752.2	6.958
8	850.5	57.629
9	999.1	58.130
10	1014.5	26.834
11	1035.7	8.638
12	1078.1	24.717
13	1128.3	56.835
14	1155.3	61.559
15	1247.9	31.623
16	1284.5	36.783
17	1321.1	13.497
18	1386.7	59.340
19	1400.2	55.170
20	1429.2	7.998
21	1458.1	27.090
22	1498.6	16.658
23	1541.0	58.622
24	1560.3	60.222
25	1596.9	42.507
26	1733.9	65.996
27	2329.8	66.049
28	2669.3	64.093
29	2738.7	59.567
30	2842.9	45.859
31	2898.6	33.772
32	2898.6	34.788
33	3020.3	42.002
34	3043.5	29.929
35	3080.1	27.870
36	3114.8	25.314
37	3448.5	26.046
38	3629.8	50.249
39	3649.1	53.663
40	3689.6	60.269
41	3712.7	60.088
42	3751.3	58.426
43	3822.7	60.260
44	3853.5	57.937
45	3903.7	60.097

### LAMPIRAN VIII. Spektra Infra Merah 2-Merkaptobenzotiazol (MBT)



Peaktable of NURLIS6.IRS, 20 Peaks  
Threshold: 80, Noise: 5, No Range Selection

Nr.	Pos. (1/cm)	Inten. (%T)
1	669.3	50.417
2	698.2	37.667
3	769.5	35.417
4	1218.9	45.784
5	1456.2	44.707
6	1490.9	44.431
7	1508.2	44.438
8	1541.0	45.683
9	1558.4	47.648
10	1652.9	49.807
11	1733.9	50.749
12	2925.8	41.184
13	3026.1	42.797
14	3566.1	45.807
15	3649.1	43.117
16	3676.1	44.499
17	3735.9	43.556
18	3751.3	43.880
19	3801.4	45.920
20	3820.7	45.646