

## LAMPIRAN

Lampiran 1. Jumlah kuantitas *pyrolytic oil*

Persentase penambahan plastik (%)	Persentase jumlah produk pirolisis (%)			
	<i>Pyrolytic oil</i>	Arang	Gas	<i>Wax</i>
0	25,70	21,05	53,25	0
25	15,05	19,80	59	6,10
50	15,90	15,60	62,00	6,50
75	16,80	5,40	65,60	12,20
100	33,15	3,60	57,05	6,20
0a	40	32,50	27,50	0
100a	89,65	5,15	5,15	0

Tanpa alfabet : campuran cangkang sawit-plastik menggunakan katalis

Alfabet (a) : campuran cangkang sawit-plastik tidak menggunakan katalis

Lampiran 2. Nilai densitas *pyrolytic oil*

Persentase penambahan plastik (%)	Pengujian <i>pyrolytic oil</i>			Hasil	
	Massa Gelas ukur (g)	Massa <i>Pyrolytic oil</i> (g)	Volume (ml)	(g/ml)	(kg/m <sup>3</sup> )
0	26,1	55,5	30	0,980	980
25	26,1	54,4	30	0,943	943,3
50	26,1	51,1	30	0,833	833,3
75	26,1	48,9	30	0,760	760
100	26,1	48,1	30	0,733	733,3
0a	26,1	55,4	30	0,976	976,7
100a	26,1	48,6	30	0,750	750

Tanpa alfabet : campuran cangkang sawit-plastik menggunakan katalis

Alfabet (a) : campuran cangkang sawit-plastik tidak menggunakan katalis

Lampiran 3. Nilai kadar pH *pyrolytic oil*

Persentase penambahan plastik (%)	Pengujian <i>pyrolytic oil</i> ke-		Rata-rata kadar pH
	1	2	
0	4,00	4,10	4,05
25	4,40	4,50	4,45
50	5,20	5,20	5,20
75	7,70	7,60	7,65
100	7,90	7,90	7,90
0a	3,70	3,60	3,65
100a	7,70	7,90	7,80

Tanpa alfabet : campuran cangkang sawit-plastik menggunakan katalis

Alfabet (a) : campuran cangkang sawit-plastik tidak menggunakan katalis

Lampiran 4. Nilai viskositas *pyrolytic oil*

Persentase penambahan plastik (%)	Pengujian <i>pyrolytic oil</i> ke-		Rata-rata viskositas (cP)
	1 (cP)	2 (cP)	
0	1,6	1,6	1,6
25	1,4	1,4	1,4
50	2,4	2,4	2,4
75	7,6	7,9	7,75
100	33,30	33,40	33,35
0a	2,4	2,7	2,55
100a	1,6	1,8	1,7

Tanpa alfabet : campuran cangkang sawit-plastik menggunakan katalis

Alfabet (a) : campuran cangkang sawit-plastik tidak menggunakan katalis

Lampiran 5. Nilai kalor *pyrolytic oil*

Persentase penambahan plastik (%)	Pengujian <i>pyrolytic oil</i> ke-		Rata-rata nilai kalor (MJ/kg)
	1 (MJ/kg)	2 (MJ/kg)	
0	30,7021	30,8084	30,7553
25	N.d.	N.d.	N.d.
50	44,3529	44,3048	44,3288
75	45,4094	44,8213	45,1154
100	45,5106	45,1536	45,3321
0a	21,0834	20,9507	21,0171
100a	45,2499	45,4059	45,3279

Tanpa alfabet : campuran cangkang sawit-plastik menggunakan katalis

Alfabet (a) : campuran cangkang sawit-plastik tidak menggunakan katalis

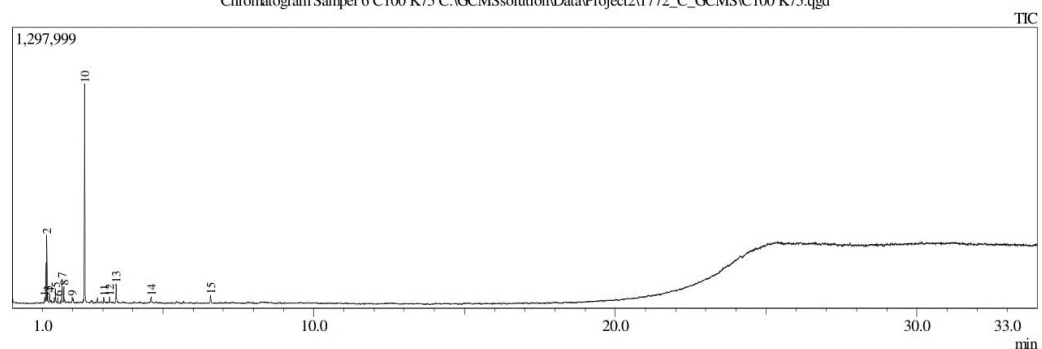
N.d. : *not detected* (tidak terdeteksi)

## Lampiran 6. Data uji GC-MS pada persentase plastik 0%

Sample Information

Analyzed by : Admin  
 Analyzed : 6/4/2018 4:55:23 PM  
 Sample Name : Sampel 6 C100 K75  
 Sample ID : 10  
 Injection Volume : 0.10  
 Data File : C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\C100 K75.qgd  
 Tuning File : C:\GCMSsolution\System1\Tuning 01082017.qgt

Chromatogram Sampel 6 C100 K75 C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\C100 K75.qgd

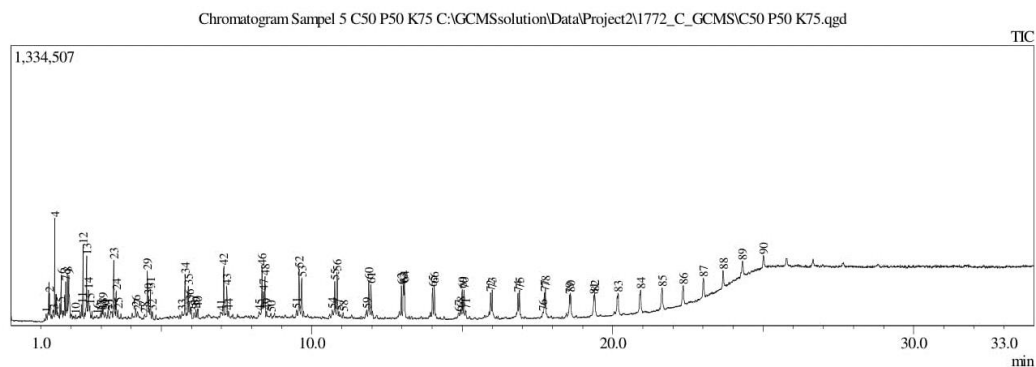


Peak#	R.Time	L.Time	F.Time	Area	Area%	Height
1	1.075	1.058	1.092	27535	1.19	27183
2	1.143	1.092	1.158	382913	16.58	314416
3	1.175	1.158	1.225	47847	2.07	48133
4	1.240	1.225	1.417	111525	4.83	44745
5	1.433	1.417	1.475	54848	2.38	65063
6	1.516	1.475	1.542	22395	0.97	25514
7	1.649	1.567	1.675	150413	6.51	112585
8	1.708	1.675	1.758	87815	3.80	74788
9	1.992	1.967	2.050	48622	2.11	27221
10	2.398	2.375	2.467	1109497	48.05	1006257
11	3.035	3.017	3.067	31854	1.38	25595
12	3.224	3.200	3.250	31152	1.35	25154
13	3.444	3.408	3.475	118150	5.12	86125
14	4.601	4.575	4.633	31864	1.38	24725
15	6.576	6.542	6.617	52690	2.28	35865
				2309120	100.00	1943369

## Lampiran 7. Data uji GC-MS pada persentase plastik 50%

Sample Information

Analyzed by : Admin  
 Analyzed : 6/4/2018 4:17:29 PM  
 Sample Name : Sampel 5 C50 P50 K75  
 Sample ID : 9  
 Injection Volume : 0.10  
 Data File : C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\C50 P50 K75.qgd  
 Tuning File : C:\GCMSsolution\SystemTune\1\Tuning 01082017.qgt



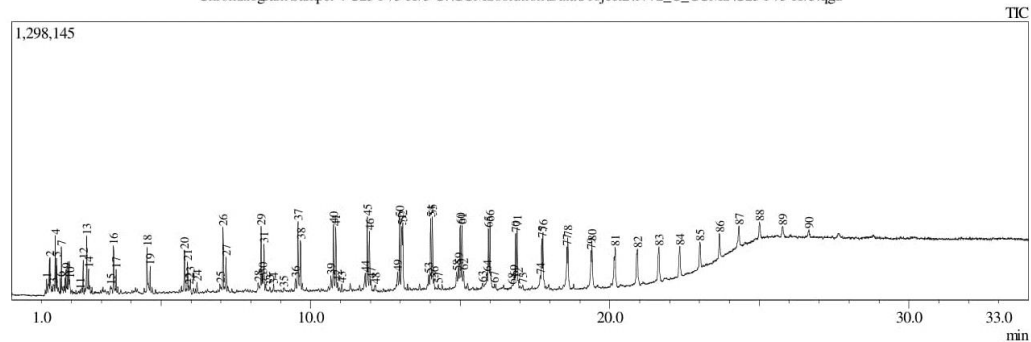
Peak#	R.Time	L.Time	F.Time	Area	Area%	Height
1	1.175	1.158	1.208	57346	0.32	31735
2	1.285	1.208	1.342	353924	1.95	124962
3	1.425	1.375	1.442	104385	0.58	33851
4	1.459	1.442	1.483	316455	1.74	465208
5	1.637	1.617	1.650	78478	0.43	70197
6	1.674	1.650	1.692	206354	1.14	206880
7	1.822	1.775	1.867	374313	2.06	176794
8	1.883	1.867	1.900	192383	1.06	217159
9	1.925	1.900	1.975	383521	2.11	207590
10	2.150	2.133	2.283	85473	0.47	17666
11	2.353	2.325	2.375	109143	0.60	70721
12	2.398	2.375	2.433	391569	2.16	353113
13	2.516	2.467	2.550	425656	2.34	300921
14	2.583	2.550	2.608	268547	1.48	138309
15	2.624	2.608	2.650	82598	0.46	64083
16	2.856	2.717	2.883	82253	0.45	18561
17	2.983	2.883	3.000	72420	0.40	31364
18	3.035	3.000	3.050	67904	0.37	40906
19	3.064	3.050	3.100	103168	0.57	66142
20	3.129	3.100	3.183	94619	0.52	32743
21	3.226	3.183	3.275	91114	0.50	40404
22	3.355	3.275	3.392	144287	0.79	34662
23	3.419	3.392	3.458	422157	2.33	279290
24	3.505	3.458	3.533	224043	1.23	132044
25	3.559	3.533	3.592	61400	0.34	43508
26	4.148	4.058	4.183	107122	0.59	50528
27	4.215	4.183	4.275	78176	0.43	31025
28	4.442	4.425	4.508	70543	0.39	23610
29	4.541	4.508	4.558	351696	1.94	229292
30	4.575	4.558	4.617	214968	1.18	110751
31	4.640	4.617	4.675	206366	1.14	142658
32	4.703	4.675	4.758	70099	0.39	38384
33	5.684	5.642	5.700	63240	0.35	33911
34	5.786	5.700	5.825	428824	2.36	210656
35	5.890	5.858	5.917	254964	1.40	156096
36	5.933	5.917	5.967	154103	0.85	80867
37	5.986	5.967	6.025	86083	0.47	57724
38	6.088	6.025	6.125	60505	0.33	27059
39	6.156	6.125	6.183	68834	0.38	41547
40	6.207	6.183	6.242	65264	0.36	43840
41	6.975	6.950	7.033	83363	0.46	22515
42	7.072	7.033	7.108	408349	2.25	245170
43	7.172	7.108	7.208	285281	1.57	151024
44	7.236	7.208	7.300	64709	0.36	32211
45	8.250	8.225	8.308	114854	0.63	32555

Peak#	R.Time	L.Time	F.Time	Area	Area%	Height
46	8.344	8.308	8.375	456732	2.52	249429
47	8.400	8.375	8.417	230822	1.27	128169
48	8.440	8.417	8.475	324279	1.79	200633
49	8.498	8.475	8.525	68644	0.38	35715
50	8.640	8.525	8.683	109374	0.60	25720
51	9.492	9.450	9.525	88053	0.49	36926
52	9.577	9.525	9.617	421942	2.32	230233
53	9.665	9.617	9.700	342075	1.88	186376
54	10.680	10.625	10.717	120987	0.67	40765
55	10.761	10.717	10.808	371585	2.05	176314
56	10.843	10.808	10.875	389318	2.14	220793
57	10.900	10.875	10.925	57915	0.32	30504
58	11.044	10.925	11.083	90344	0.50	26385
59	11.820	11.800	11.858	97290	0.54	43256
60	11.894	11.858	11.933	357761	1.97	184508
61	11.969	11.933	12.000	307803	1.70	162970
62	12.975	12.942	13.008	259999	1.43	151520
63	13.045	13.008	13.058	277761	1.53	157144
64	13.076	13.058	13.125	284207	1.57	164958
65	14.009	13.975	14.042	244394	1.35	139712
66	14.070	14.042	14.100	284997	1.57	157469
67	14.880	14.850	14.908	57851	0.32	25324
68	14.941	14.908	14.967	97633	0.54	43905
69	14.998	14.967	15.025	252840	1.39	138215
70	15.053	15.025	15.083	260353	1.43	135306
71	15.117	15.083	15.158	87785	0.48	38629
72	15.944	15.908	15.967	209316	1.15	113719
73	15.996	15.967	16.067	253729	1.40	127719
74	16.851	16.825	16.875	206506	1.14	115069
75	16.898	16.875	16.925	221926	1.22	132267
76	17.675	17.642	17.700	59651	0.33	25436
77	17.725	17.700	17.742	189684	1.04	117855
78	17.766	17.742	17.792	224996	1.24	137315
79	18.562	18.508	18.575	205657	1.13	105496
80	18.600	18.575	18.683	238978	1.32	114374
81	19.367	19.333	19.383	147420	0.81	83985
82	19.403	19.383	19.467	198999	1.10	102847
83	20.177	20.100	20.242	351931	1.94	99466
84	20.924	20.850	20.992	333525	1.84	104707
85	21.641	21.583	21.725	298795	1.65	98073
86	22.339	22.283	22.408	274103	1.51	89404
87	23.015	22.958	23.075	250695	1.38	91595
88	23.668	23.625	23.717	190999	1.05	76781
89	24.312	24.275	24.358	184548	1.02	68196
90	25.010	24.967	25.067	138010	0.76	55577
				18153065	100.00	9950995

## Lampiran 8. Data uji GC-MS pada persentase plastik 75%

Sample Information  
 Analyzed by : Admin  
 Analyzed : 6/4/2018 3:39:39 PM  
 Sample Name : Sampel 4 C25 P75 K75  
 Sample ID : 8  
 Injection Volume : 0.10  
 Data File : C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\C25 P75 K75.qgd  
 Tuning File : C:\GCMSsolution\System1\Tuning\Tuning 01082017.qgt

Chromatogram Sampel 4 C25 P75 K75 C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\C25 P75 K75.qgd



Peak#	R.Time	I.Time	F.Time	Area	Area%	Height
1	1.173	1.158	1.208	137897	0.54	75008
2	1.284	1.208	1.342	493984	1.94	175911
3	1.400	1.342	1.442	207512	0.82	48791
4	1.458	1.442	1.475	236370	0.93	276201
5	1.493	1.475	1.550	299837	1.18	169187
6	1.634	1.592	1.650	76970	0.30	75403
7	1.669	1.650	1.692	223070	0.88	219748
8	1.783	1.725	1.800	105597	0.42	74438
9	1.818	1.800	1.867	161395	0.63	113933
10	1.942	1.867	1.975	406086	1.60	64991
11	2.292	2.175	2.333	88620	0.35	19475
12	2.392	2.375	2.425	162957	0.64	159016
13	2.509	2.475	2.525	297906	1.17	270656
14	2.575	2.525	2.608	220046	0.87	117460
15	3.308	3.275	3.375	118959	0.47	38084
16	3.411	3.375	3.450	324148	1.28	223912
17	3.497	3.450	3.525	182861	0.72	115269
18	4.533	4.500	4.608	418542	1.65	213890
19	4.632	4.608	4.667	179415	0.71	126768
20	5.779	5.700	5.817	380072	1.50	201038
21	5.882	5.817	5.908	256449	1.01	146456
22	5.928	5.908	5.958	90835	0.36	38925
23	5.979	5.958	6.017	105112	0.41	68701
24	6.200	6.175	6.242	79333	0.31	49887
25	6.967	6.942	7.000	77814	0.31	37867
26	7.066	7.033	7.100	472884	1.86	302062
27	7.167	7.133	7.200	261716	1.03	164283
28	8.248	8.225	8.300	133394	0.52	44917
29	8.339	8.300	8.367	533105	2.10	308819
30	8.392	8.367	8.408	147044	0.58	81226
31	8.434	8.408	8.475	382343	1.50	225353
32	8.500	8.475	8.525	69737	0.27	36558
33	8.636	8.525	8.675	94166	0.37	25329
34	8.760	8.675	8.783	65612	0.26	31018
35	9.092	9.067	9.333	100308	0.39	18210
36	9.487	9.375	9.533	165560	0.65	59512
37	9.574	9.533	9.617	565945	2.23	325787
38	9.661	9.617	9.700	449804	1.77	236597
39	10.678	10.625	10.725	174226	0.69	69254
40	10.759	10.725	10.808	559158	2.20	309370
41	10.841	10.808	10.875	498373	1.96	296913
42	10.894	10.875	10.933	66494	0.26	40730
43	11.042	11.008	11.075	67430	0.27	37961
44	11.817	11.758	11.858	217822	0.86	78434
45	11.892	11.858	11.933	601223	2.37	342301

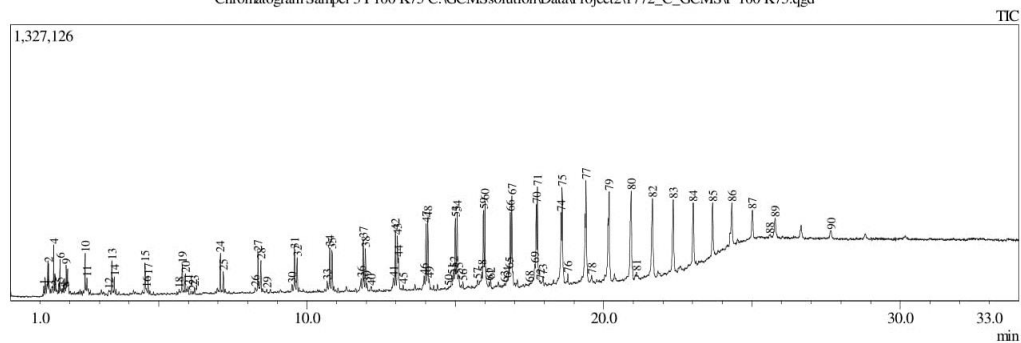
Peak#	R.Time	I.Time	F.Time	Area	Area%	Height
46	11.967	11.933	12.000	482146	1.90	277785
47	12.017	12.000	12.067	80895	0.32	53127
48	12.164	12.117	12.208	73543	0.29	28379
49	12.907	12.883	12.942	157016	0.62	77595
50	12.974	12.942	13.008	582099	2.29	329229
51	13.044	13.008	13.058	541861	2.13	292361
52	13.076	13.058	13.150	544569	2.14	311792
53	13.948	13.917	13.975	147449	0.58	68520
54	14.008	13.975	14.033	580838	2.29	332241
55	14.069	14.033	14.100	654444	2.57	338891
56	14.114	14.100	14.150	71956	0.28	49751
57	14.265	14.150	14.308	74481	0.29	24566
58	14.880	14.850	14.908	133967	0.53	65299
59	14.942	14.908	14.967	213117	0.84	100187
60	14.997	14.967	15.025	547041	2.15	288454
61	15.055	15.025	15.083	540781	2.13	289838
62	15.114	15.083	15.158	179079	0.70	79593
63	15.745	15.717	15.792	68483	0.27	24548
64	15.892	15.792	15.917	262466	1.03	77109
65	15.944	15.917	15.967	519217	2.04	282658
66	15.994	15.967	16.075	648997	2.55	311138
67	16.139	16.075	16.167	64942	0.26	24521
68	16.725	16.700	16.783	70569	0.28	14116
69	16.800	16.783	16.825	116204	0.46	53370
70	16.851	16.825	16.875	470746	1.85	259562
71	16.898	16.875	16.925	485503	1.91	287763
72	16.942	16.925	16.975	69101	0.27	41209
73	17.092	16.975	17.125	92475	0.36	23044
74	17.675	17.642	17.692	93937	0.37	48391
75	17.724	17.692	17.742	390418	1.54	222393
76	17.765	17.742	17.833	481537	1.89	254321
77	18.562	18.483	18.583	463360	1.82	189921
78	18.599	18.583	18.683	407491	1.60	234141
79	19.369	19.308	19.383	328934	1.29	164249
80	19.403	19.383	19.475	402686	1.58	203580
81	20.177	20.092	20.267	712201	2.80	186464
82	20.922	20.850	21.017	580458	2.28	162773
83	21.640	21.567	21.725	515697	2.03	156531
84	22.338	22.267	22.417	442712	1.74	140338
85	23.014	22.958	23.075	328392	1.29	117819
86	23.668	23.617	23.725	288950	1.14	111585
87	24.315	24.275	24.375	169283	0.67	80682
88	25.007	24.958	25.050	157658	0.62	65759
89	25.779	25.733	25.850	127570	0.50	42403
90	26.657	26.608	26.717	95913	0.38	33378
				25419313	100.00	12977023



## Lampiran 9. Data uji GC-MS pada persentase plastik 100%

Sample Information  
 Analyzed by : Admin  
 Analyzed : 6/4/2018 2:12:19 PM  
 Sample Name : Sampel 3 P100 K75  
 Sample ID : 7  
 Injection Volume : 0.10  
 Data File : C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\100 K75.qgd  
 Tuning File : C:\GCMSsolution\System1\Tune\1\Tuning 01082017.qgt

Chromatogram Sampel 3 P100 K75 C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\100 K75.qgd



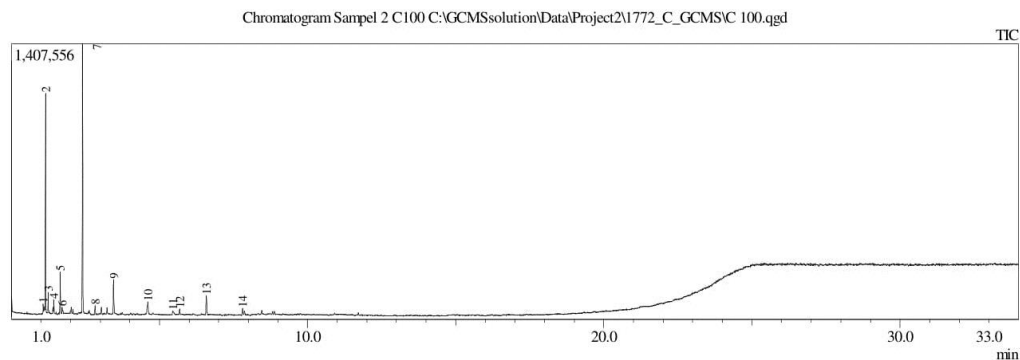
Peak#	R.Time	L.Time	F.Time	Area	Area%	Height
1	1.122	1.100	1.208	245042	0.79	47450
2	1.285	1.208	1.342	477884	1.54	155964
3	1.400	1.342	1.442	179159	0.58	41835
4	1.459	1.442	1.508	328014	1.06	242809
5	1.636	1.508	1.650	265563	0.85	54614
6	1.674	1.650	1.692	179880	0.58	173660
7	1.758	1.692	1.775	100149	0.32	31373
8	1.842	1.775	1.867	194148	0.62	32454
9	1.883	1.867	1.983	362126	1.16	143122
10	2.516	2.483	2.550	252670	0.81	200360
11	2.582	2.550	2.608	143397	0.46	83833
12	3.316	3.283	3.392	105098	0.34	26384
13	3.420	3.392	3.458	247550	0.80	165995
14	3.506	3.458	3.533	147971	0.48	88038
15	4.542	4.508	4.567	224255	0.72	149141
16	4.583	4.567	4.617	52289	0.17	26450
17	4.641	4.617	4.683	118533	0.38	89091
18	5.684	5.642	5.708	58012	0.19	27815
19	5.789	5.708	5.825	300740	0.97	148221
20	5.892	5.825	5.917	193839	0.62	101120
21	5.988	5.917	6.017	125053	0.40	39970
22	6.150	6.017	6.183	61451	0.20	12802
23	6.209	6.183	6.242	50048	0.16	31729
24	7.074	7.008	7.108	313252	1.01	190232
25	7.174	7.108	7.217	183578	0.59	103187
26	8.250	8.233	8.317	67887	0.22	22044
27	8.345	8.317	8.375	331555	1.07	192629
28	8.441	8.375	8.475	300097	0.97	156138
29	8.642	8.533	8.683	68181	0.22	20500
30	9.492	9.458	9.525	77644	0.25	37548
31	9.579	9.525	9.617	374436	1.20	203364
32	9.667	9.617	9.700	287623	0.93	164559
33	10.682	10.642	10.717	100345	0.32	47642
34	10.763	10.717	10.808	402524	1.29	209080
35	10.844	10.808	10.875	333393	1.07	197551
36	11.820	11.758	11.858	167192	0.54	59384
37	11.895	11.858	11.933	471772	1.52	250047
38	11.970	11.933	12.000	378391	1.22	203982
39	12.020	12.000	12.058	63519	0.20	37312
40	12.165	12.117	12.192	54216	0.17	21738
41	12.911	12.883	12.942	140571	0.45	61220
42	12.977	12.942	13.017	544598	1.75	284821
43	13.047	13.017	13.067	507348	1.63	261433
44	13.080	13.067	13.117	256350	0.82	157231
45	13.243	13.117	13.283	76904	0.25	25672

Peak#	R.Time	L.Time	F.Time	Area	Area%	Height
46	13.949	13.917	13.975	74081	0.24	46236
47	14.011	13.975	14.042	551146	1.77	302927
48	14.073	14.042	14.108	608815	1.96	335766
49	14.117	14.108	14.158	48980	0.16	45908
50	14.775	14.758	14.850	56230	0.18	10500
51	14.882	14.850	14.900	129841	0.42	62591
52	14.943	14.900	14.967	248563	0.80	95681
53	15.000	14.967	15.025	655267	2.11	340475
54	15.056	15.025	15.083	668946	2.15	364357
55	15.109	15.083	15.158	185322	0.60	69061
56	15.255	15.158	15.292	106949	0.34	35334
57	15.747	15.725	15.792	63955	0.21	27794
58	15.895	15.792	15.917	242905	0.78	69132
59	15.947	15.917	15.975	698451	2.25	367250
60	15.998	15.975	16.108	828908	2.67	410597
61	16.142	16.108	16.167	50605	0.16	26672
62	16.190	16.167	16.225	60420	0.19	38431
63	16.658	16.642	16.717	62644	0.20	18623
64	16.750	16.717	16.783	142390	0.46	39173
65	16.809	16.783	16.825	173350	0.56	85674
66	16.854	16.825	16.875	693021	2.23	360419
67	16.901	16.875	16.975	918830	2.96	438209
68	17.492	17.467	17.642	177022	0.57	12070
69	17.683	17.642	17.700	267563	0.86	104437
70	17.725	17.700	17.742	655896	2.11	392488
71	17.768	17.742	17.833	978615	3.15	475036
72	17.867	17.833	17.883	59656	0.19	23511
73	17.956	17.883	18.000	126130	0.41	46445
74	18.562	18.492	18.583	808046	2.60	333689
75	18.601	18.583	18.675	843056	2.71	457282
76	18.793	18.767	18.842	71387	0.23	44174
77	19.406	19.300	19.508	1585978	5.10	477199
78	19.596	19.567	19.650	54201	0.17	26769
79	20.179	20.083	20.250	1432670	4.61	417424
80	20.926	20.825	21.017	1373738	4.42	418700
81	21.110	21.083	21.133	74509	0.24	34244
82	21.646	21.517	21.742	1340019	4.31	374725
83	22.346	22.275	22.408	978695	3.15	339699
84	23.020	22.958	23.100	767124	2.47	288048
85	23.675	23.617	23.783	700040	2.25	253351
86	24.319	24.217	24.383	720558	2.32	206147
87	25.013	24.958	25.075	359016	1.15	131509
88	25.600	25.558	25.700	85914	0.28	17083
89	25.780	25.700	25.858	356318	1.15	93399
90	27.664	27.617	27.733	90996	0.29	32169
				31091013	100.00	13611952

## Lampiran 10. Data uji GC-MS pada persentase plastik 0% (a)

Sample Information

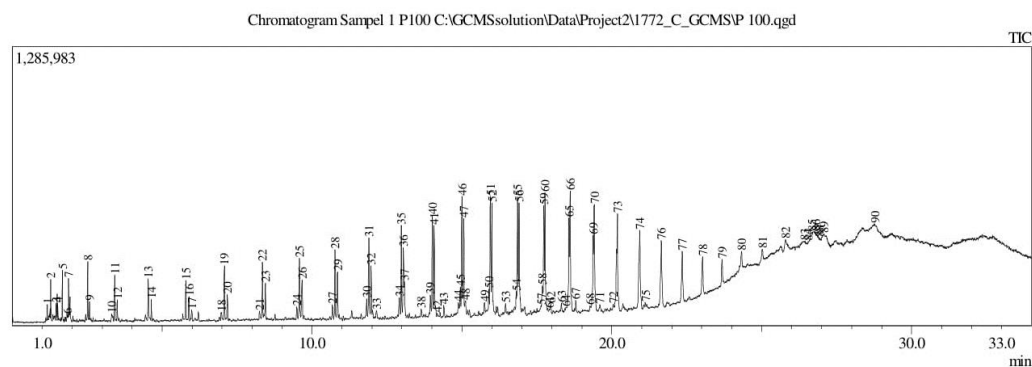
Analyzed by : Admin  
 Analyzed : 6/4/2018 1:34:29 PM  
 Sample Name : Sampel 2 C100  
 Sample ID : 6  
 Injection Volume : 0.10  
 Data File : C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\C 100.qgd  
 Tuning File : C:\GCMSsolution\System\Tune\1\Tuning 01082017.qgt



Peak#	R.Time	I.Time	F.Time	Area	Area%	Height
1	1.076	1.050	1.092	50485	1.44	51618
2	1.149	1.092	1.192	861832	24.56	1124780
3	1.241	1.192	1.283	97252	2.77	107667
4	1.434	1.283	1.458	68436	1.95	66509
5	1.650	1.625	1.683	188603	5.37	212005
6	1.708	1.683	1.733	48884	1.39	34226
7	2.400	2.375	2.467	1389496	39.59	1371789
8	2.827	2.800	2.858	57484	1.64	46345
9	3.448	3.417	3.483	230866	6.58	172264
10	4.605	4.558	4.650	134295	3.83	60661
11	5.442	5.417	5.650	98284	2.80	20926
12	5.676	5.650	5.708	49305	1.40	29391
13	6.580	6.542	6.633	171772	4.89	99695
14	7.808	7.775	7.842	62297	1.78	35300
				3509291	100.00	3433176

## Lampiran 11. Data uji GC-MS pada persentase plastik 100% (a)

Sample Information  
 Analyzed by : Admin  
 Analyzed : 6/4/2018 12:56:35 PM  
 Sample Name : Sampel 1 P100  
 Sample ID : 5  
 Injection Volume : 0.10  
 Data File : C:\GCMSsolution\Data\Project2\1772\_C\_GCMS\100.qgd  
 Tuning File : C:\GCMSsolution\System\Tune\1\Tuning 01082017.qgt



Peak#	R.Time	L.Time	F.Time	Area	Area%	Height
1	1.171	1.100	1.192	137057	0.41	82048
2	1.284	1.192	1.317	317638	0.96	197031
3	1.460	1.375	1.483	206550	0.62	86750
4	1.525	1.483	1.617	278137	0.84	87255
5	1.674	1.650	1.700	221716	0.67	239064
6	1.842	1.808	1.867	98273	0.30	34119
7	1.884	1.867	1.992	329228	0.99	201472
8	2.516	2.467	2.533	295121	0.89	277626
9	2.582	2.533	2.608	129670	0.39	94196
10	3.316	3.292	3.383	100292	0.30	33974
11	3.419	3.383	3.450	266129	0.80	212995
12	3.506	3.450	3.542	123760	0.37	96822
13	4.541	4.508	4.575	267671	0.81	191604
14	4.641	4.617	4.675	127900	0.39	98473
15	5.788	5.717	5.825	303557	0.91	185010
16	5.891	5.825	5.925	158567	0.48	110624
17	5.988	5.967	6.033	66183	0.20	45465
18	6.974	6.950	7.033	93151	0.28	38256
19	7.073	7.033	7.108	404301	1.22	253075
20	7.174	7.108	7.217	203710	0.61	120277
21	8.252	8.225	8.300	80208	0.24	39075
22	8.345	8.300	8.375	445201	1.34	263900
23	8.442	8.417	8.483	257819	0.78	168930
24	9.492	9.458	9.542	108738	0.33	57960
25	9.579	9.542	9.617	484205	1.46	278443
26	9.668	9.617	9.700	346059	1.04	180151
27	10.684	10.642	10.725	129587	0.39	66038
28	10.765	10.725	10.800	540745	1.63	320954
29	10.846	10.800	10.883	395885	1.19	218437
30	11.823	11.783	11.858	136098	0.41	80642
31	11.897	11.858	11.933	637698	1.92	364354
32	11.971	11.933	12.000	447731	1.35	237388
33	12.145	12.117	12.192	74453	0.22	34588
34	12.911	12.883	12.942	163785	0.49	86938
35	12.979	12.942	13.008	755161	2.27	422523
36	13.048	13.008	13.067	605092	1.82	321061
37	13.081	13.067	13.117	260556	0.78	166366
38	13.641	13.608	13.692	73604	0.22	38493
39	13.951	13.925	13.975	180970	0.54	100167
40	14.013	13.975	14.042	869029	2.62	469808
41	14.074	14.042	14.150	834006	2.51	423363
42	14.175	14.150	14.258	62332	0.19	19745
43	14.400	14.367	14.442	92265	0.28	53347
44	14.884	14.850	14.917	110868	0.33	50091
45	14.945	14.917	14.967	231809	0.70	124037

Peak#	R.Time	L.Time	F.Time	Area	Area%	Height
46	15.001	14.967	15.033	955420	2.88	542137
47	15.058	15.033	15.092	762269	2.30	440212
48	15.119	15.092	15.158	142881	0.43	62129
49	15.749	15.725	15.800	106964	0.32	49867
50	15.898	15.800	15.917	266620	0.80	113008
51	15.948	15.917	15.975	996702	3.00	540492
52	16.001	15.975	16.108	1000312	3.01	512086
53	16.451	16.417	16.483	64520	0.19	41385
54	16.808	16.783	16.825	145382	0.44	85805
55	16.858	16.825	16.883	962922	2.90	524083
56	16.904	16.883	16.983	964771	2.91	498829
57	17.633	17.525	17.650	116589	0.35	31882
58	17.686	17.650	17.700	271259	0.82	124178
59	17.731	17.700	17.750	902579	2.72	495577
60	17.773	17.750	17.842	1080213	3.25	556210
61	17.917	17.842	17.942	105607	0.32	20989
62	17.959	17.942	18.008	77226	0.23	44872
63	18.320	18.283	18.358	74260	0.22	37312
64	18.467	18.358	18.500	76154	0.23	19332
65	18.569	18.500	18.583	908377	2.74	434247
66	18.608	18.583	18.683	1059335	3.19	558158
67	18.800	18.775	18.858	101224	0.30	56861
68	19.275	19.242	19.317	78510	0.24	25466
69	19.377	19.317	19.392	784904	2.36	350684
70	19.413	19.392	19.483	1024827	3.09	492888
71	19.602	19.483	19.650	110332	0.33	30261
72	20.042	20.017	20.092	98213	0.30	31642
73	20.184	20.092	20.267	1458122	4.39	448216
74	20.931	20.842	21.017	1134214	3.42	357885
75	21.119	21.100	21.208	81585	0.25	27299
76	21.652	21.592	21.742	906557	2.73	305134
77	22.348	22.283	22.425	614331	1.85	229924
78	23.025	22.975	23.092	411379	1.24	172126
79	23.679	23.617	23.725	296044	0.89	118065
80	24.324	24.292	24.375	179833	0.54	75949
81	25.017	24.967	25.075	132523	0.40	49630
82	25.795	25.733	25.842	122880	0.37	37163
83	26.416	26.258	26.467	235381	0.71	26880
84	26.550	26.467	26.633	229467	0.69	22039
85	26.674	26.633	26.692	204977	0.62	66178
86	26.792	26.692	26.808	429525	1.29	62258
87	26.892	26.808	26.908	247185	0.74	41216
88	26.933	26.908	26.950	74449	0.22	34379
89	27.076	26.950	27.225	540350	1.63	48696
90	28.767	28.667	28.883	219448	0.66	28371
				33209137	100.00	16144935