

LAMPIRAN

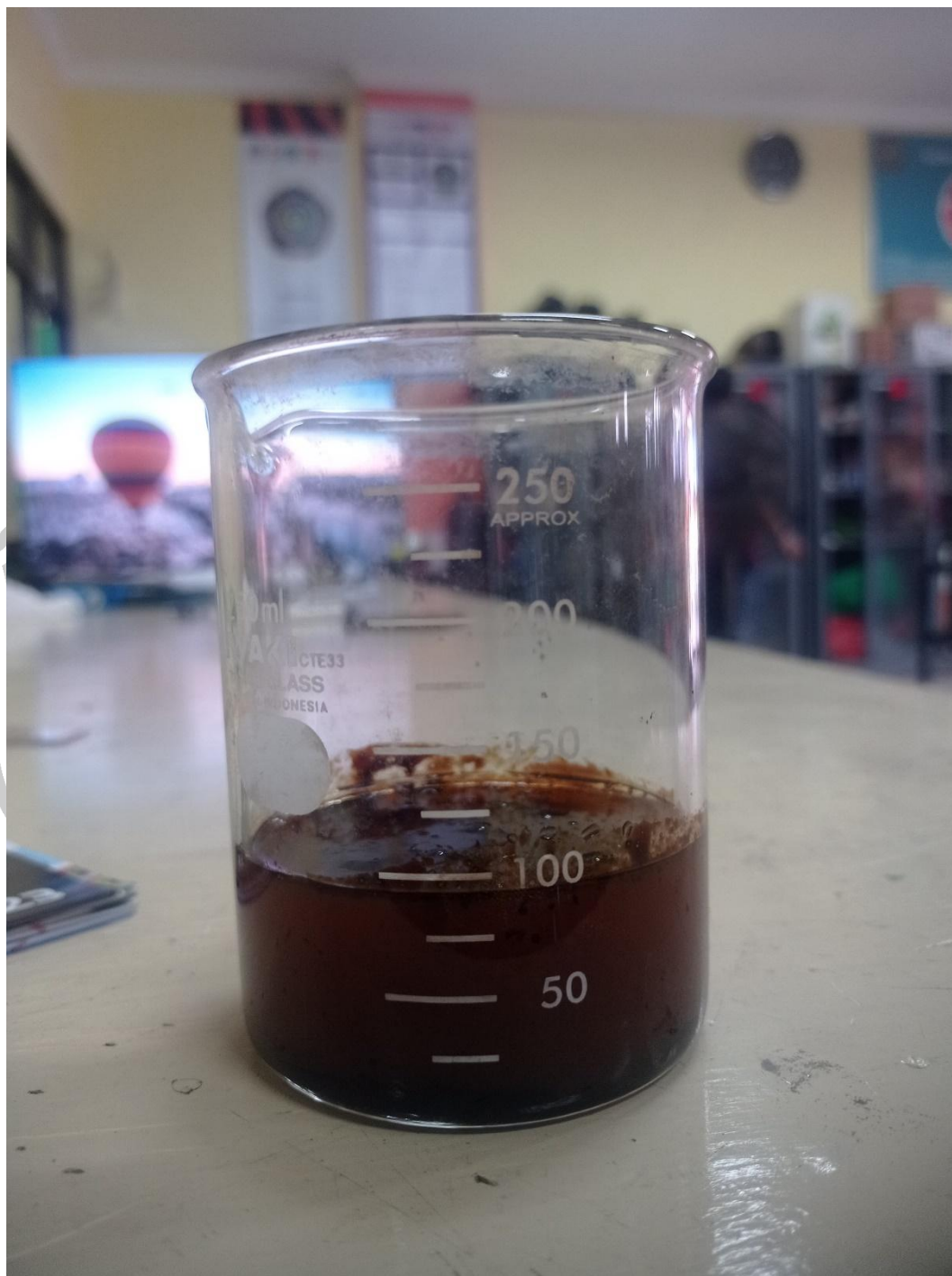
Lampiran 1 Proses Pirolisis



Lampiran 2 Hasil Bio Char



Lampiran 3 Hasil Bio Oil



Lampiran 4 Nilai Kalor

YANDI TEKNIK
MELAYANI PEMBUATAN ALAT-ALAT PENELITIAN
PENGUJIAN BIOMASA BRIKET PELET KARBON AKTIF MINYAK
BERAN CANDEN JETIS BANTUL YOGYAKARTA
Telp 081904128424

No : 47/IV/YT/2025
 Konsumen : Bagus Dwi Kurniawan
 Instansi : Jurusan Teknik Mesin, Fakultas Teknik
 Universitas Muhamadiyah Jember
 Jenis Bahan : Padatan
 Jenis Pengujian : Nilai Kalori

Hasil Uji :

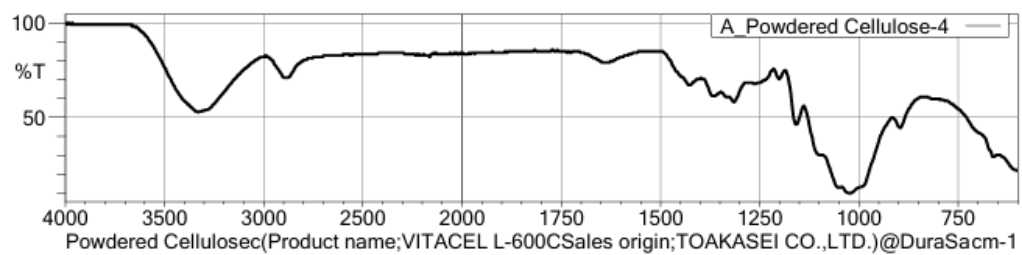
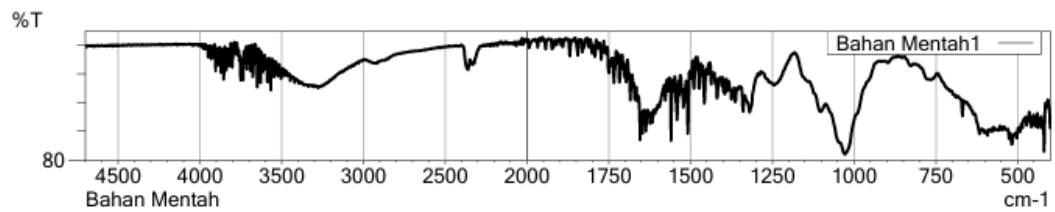
NO	Bahan	Uji 1 Nilai Kalori (Kal/gr)	Uji 2 Nilai Kalori (Kal/gr)	Uji 3 Nilai Kalori (Kal/gr)
1	Batang Tembakau Suhu 120 °C	3098,1723	3149,0877	3191,1991
2	Batang Tembakau Suhu 150 °C	4495,6698	4521,0275	4568,9266
3	Batang Tembakau Suhu 180 °C	5215,1819	5165,6483	5057,7789
3	Batang Tembakau Suhu 180 °C	5510,7383	5489,7864	5565,1717

Yogyakarta, 21 April 2025

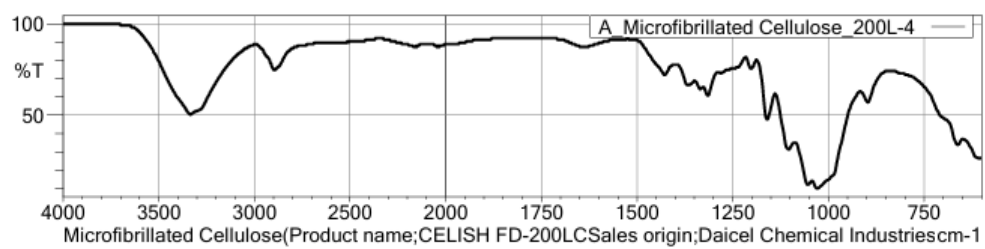
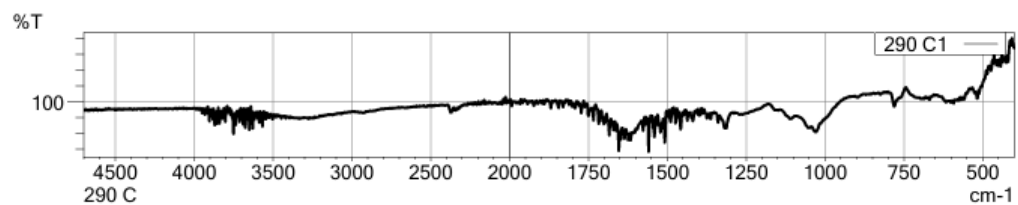

YANDI'S TEKNIK
 MELAYANI PEMBUATAN
 ALAT-ALAT PENELITIAN
 DAN PENGUJIAN BIOMASA & BIO OIL
 BERAN ET 02 CANDEN JETIS BANTUL
Suprijana, SIP., M.P.A.
 Manajer

Lampiran 5 FTIR

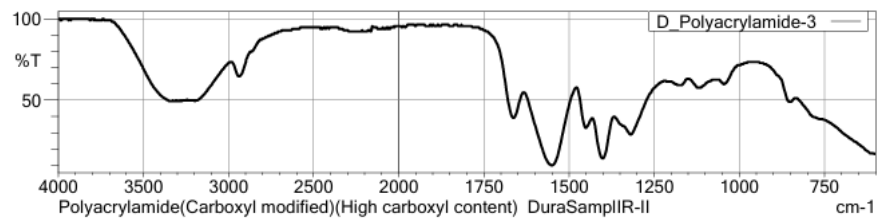
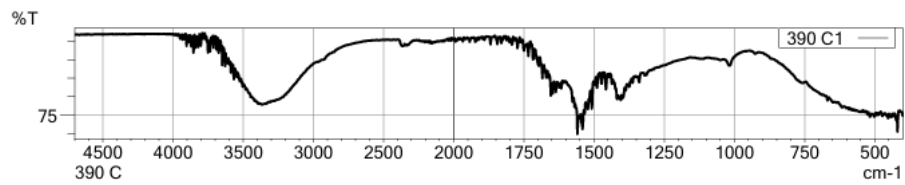
- Bahan Mentah



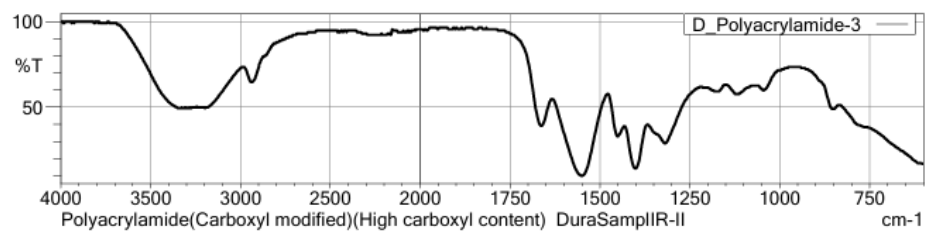
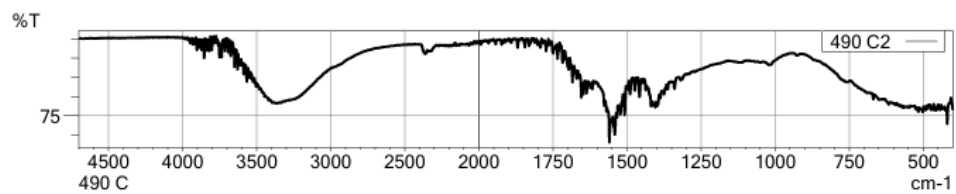
- 290



- 390



- 490



Lampiran 6 pH



Lampiran 7 TDS



Lampiran 8 Alkohol

