

Opportunities in Upgrading Biomass and Extra-Heavy Fossil Crudes

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Supplementary information

Figure S1. SIMDIS of biocrude and chromatographic comparison of petroleum based Straight Run Gas Oil (SRGO, diesel) and Vacuum Gas Oil (VGO, FCC feed)

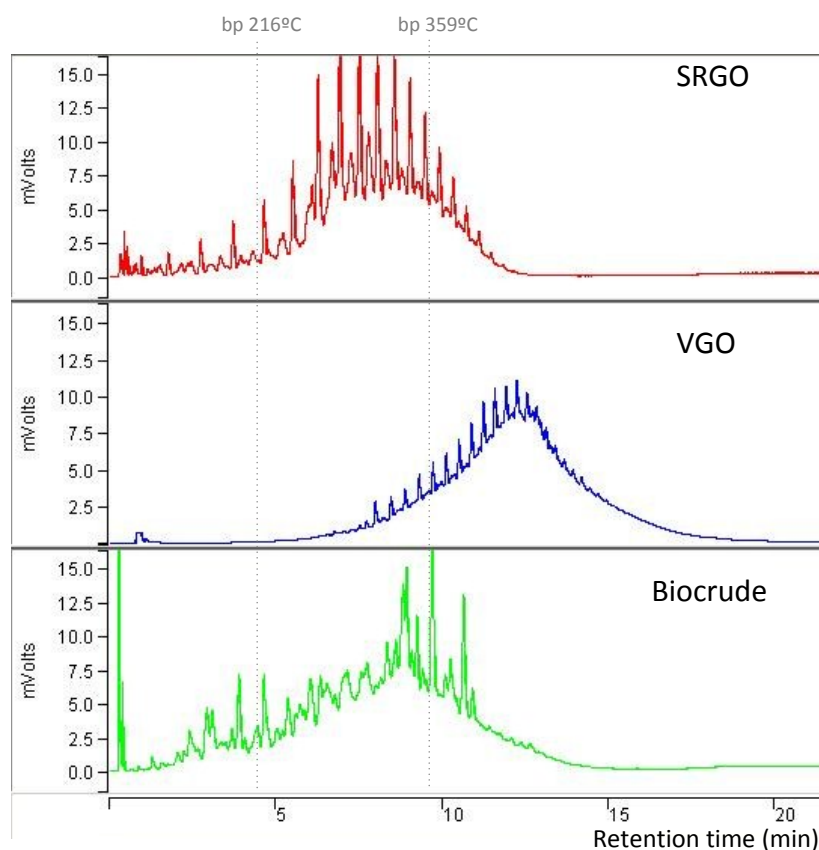


Figure S2. Fixed bed hydrotreating system flow chart

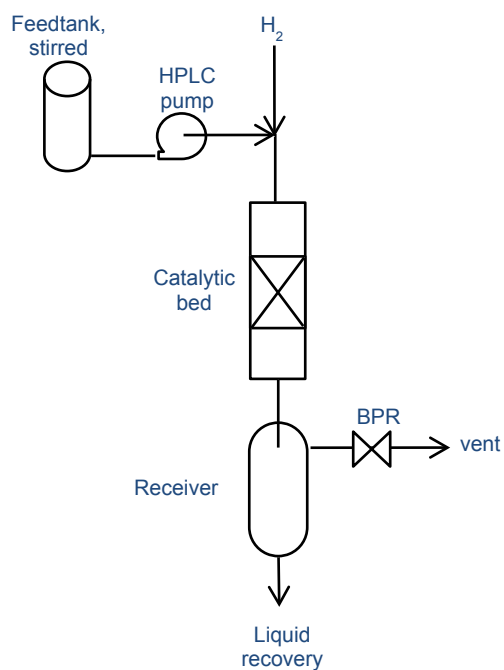
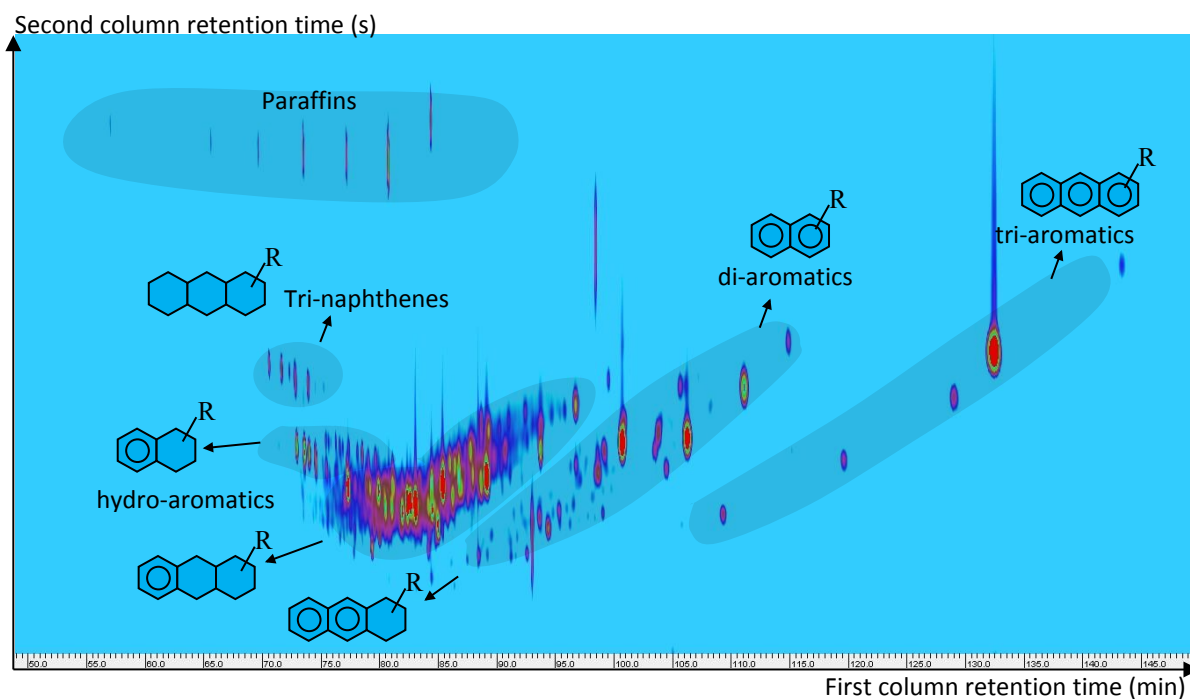


Figure S3. GCxGC plots of Hydrotreated Biocrude Heavies (HBH)

a) 2D plot



b) 3D plot

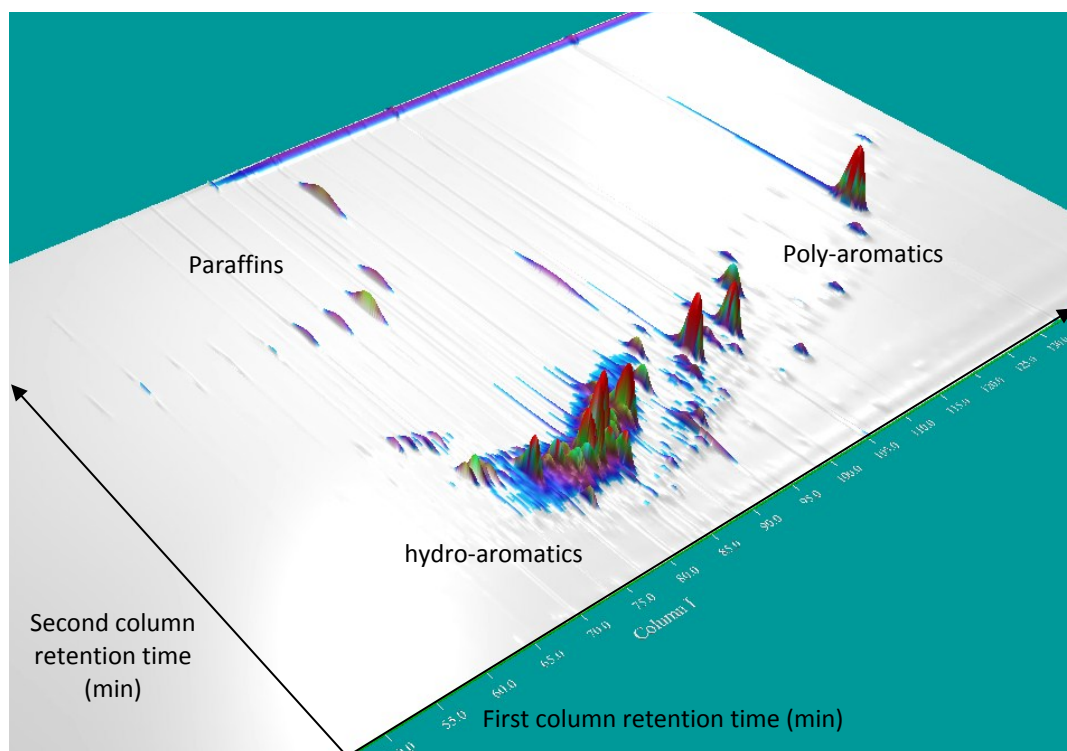


Table S1. Elemental Analysis of Biocrude

Element	wt%
C	78.5
H	8.9
N	0.2
S	0.0
O (by difference)	12.4