**Supplementary Data**

This supplementary data is a part of a paper entitled “Low-Calorie Coal Liquefaction Products as an Alternative Fuel Oil”.

**Fig S1.** TIC of aliphatic hydrocarbon fractions of naphtha products that indicate the presence of \( n \)-alkane, isoalkane (branched alkanes), and cycloalkane compounds

**Fig S2.** TIC of aliphatic hydrocarbon fractions of light oil (LO) products that indicate the presence of \( n \)-alkane and cycloalkane compounds

**Fig S3.** TIC of aliphatic hydrocarbon fraction of middle oil (MO) product which indicates the presence of \( n \)-alkane and cycloalkane compounds
Fig S4. Fragmentogram m/z 57 showing n-alkane of naphtha products

Fig S5. Fragmentogram m/z 57 showing n-alkane compound of LO product

Fig S6. Fragmentogram m/z 57 showing n-alkane compound of MO products
Fig S7. Fragmentogram $m/z$ 83 showing the cycloalkane compound of Naphtha products

Fig S8. Fragmentogram $m/z$ 83 showing cycloalkane compounds of LO products

Fig S9. Fragmentogram $m/z$ 83 showing cycloalkane compounds in MO products