

## Electronic supplementary information

### POLYPHENYLENE IMPREGNATED WITH FULLERENE C<sub>60</sub>-CONTAINING OLIGOPHENYLENES FOR CO<sub>2</sub> ADSORPTION

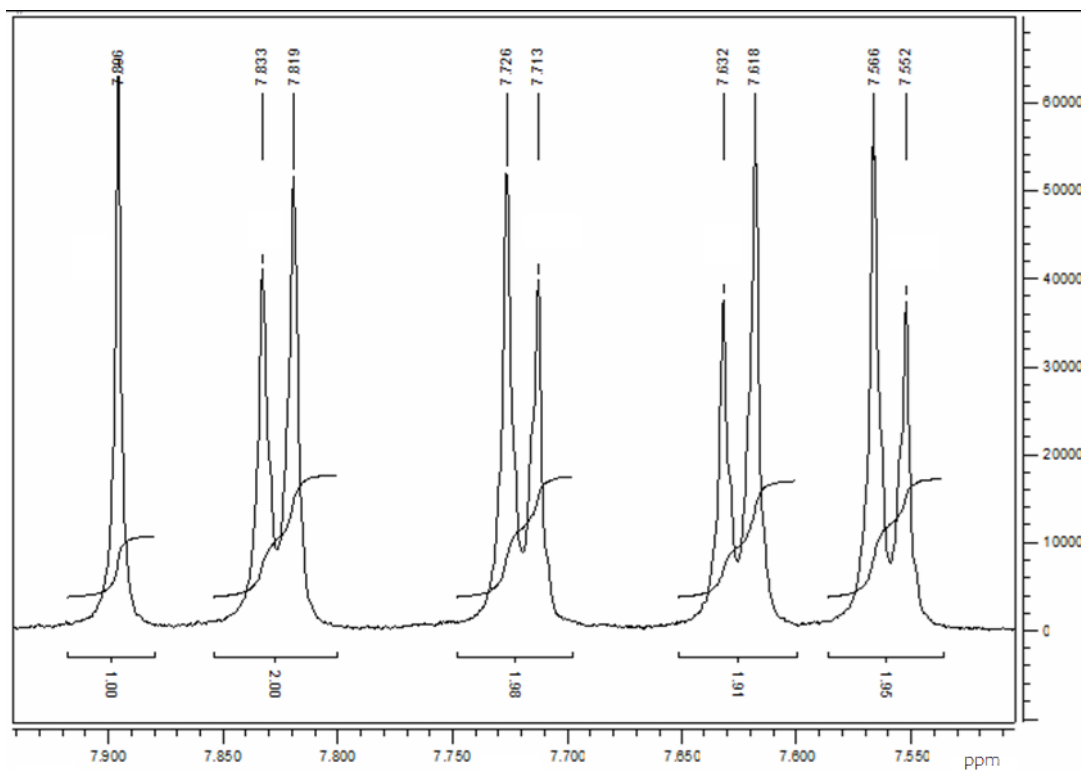
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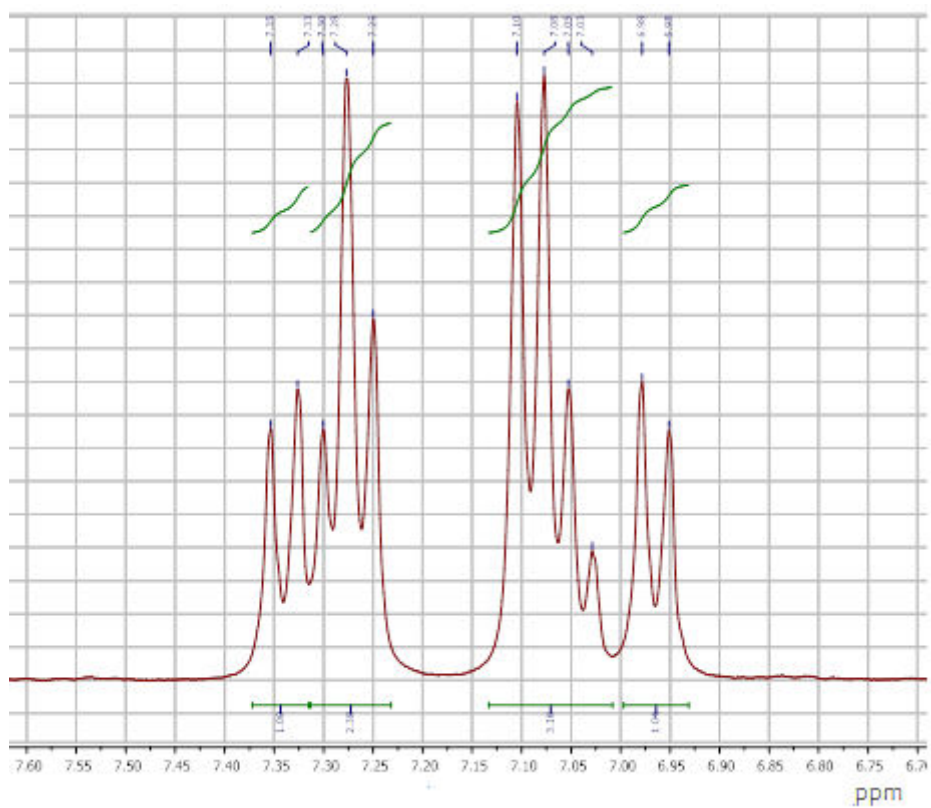
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**Figure S1.**  $^1\text{H}$  NMR spectrum of compound 3.



**Figure S2.**  $^1\text{H}$  NMR spectrum of compound 4.

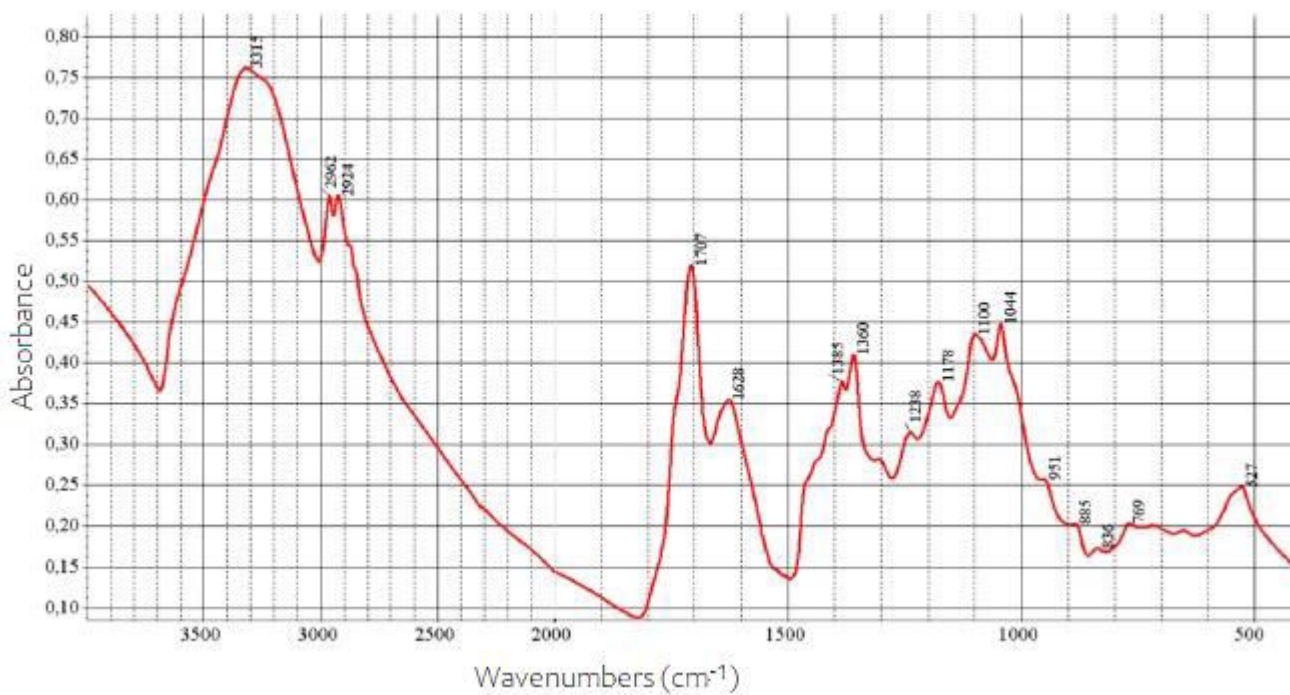


Figure S3. IR spectrum of compound 5.

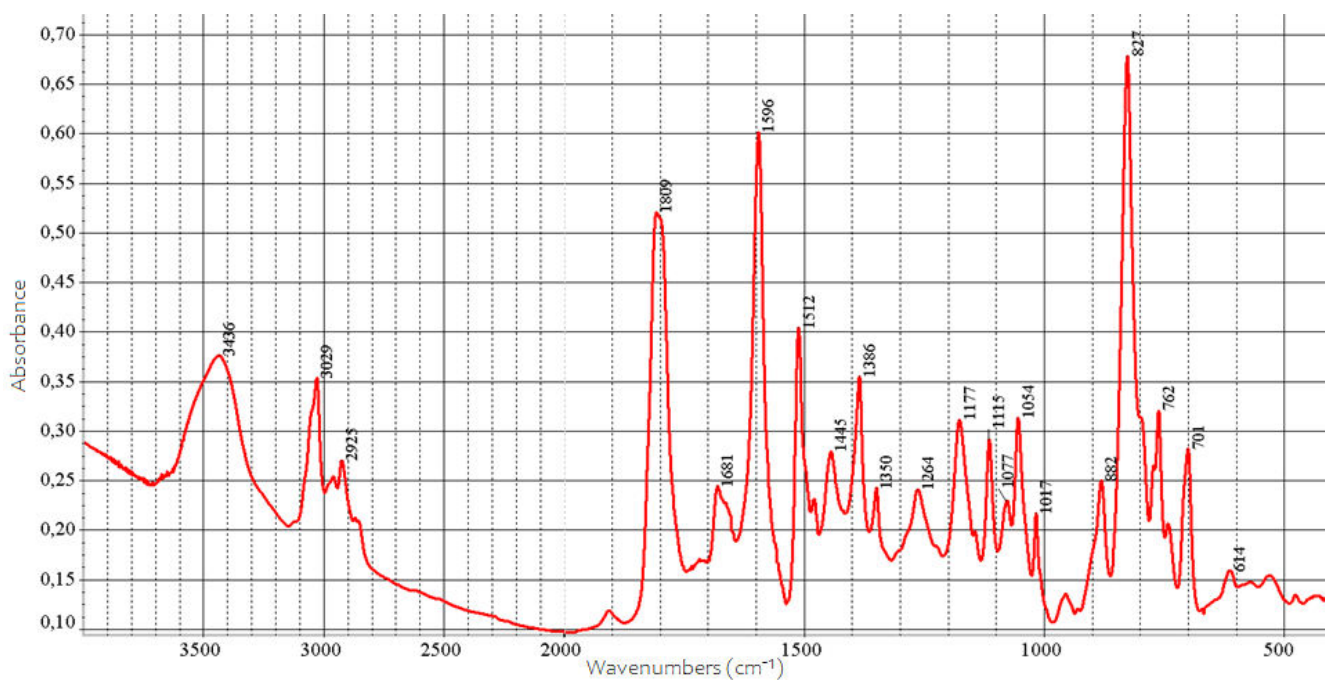
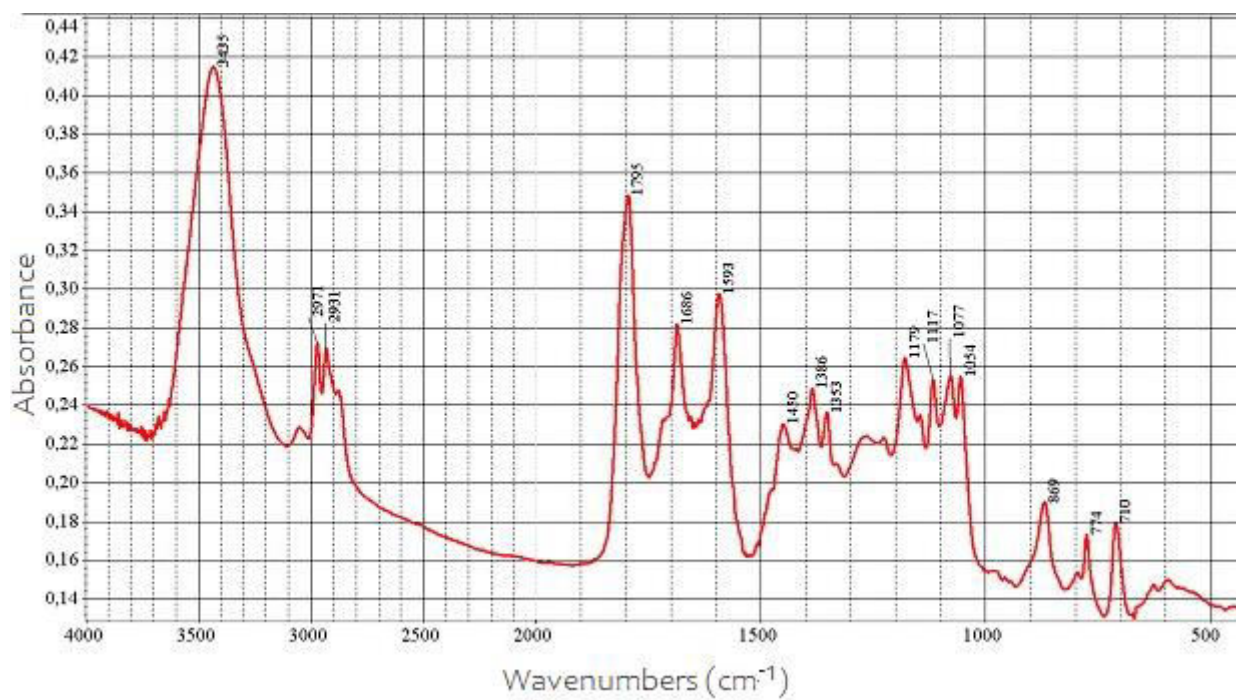


Figure S4. IR spectrum of P2 after saturation with CO<sub>2</sub>.



**Figure S5.** IR spectrum of **P2** impregnated with compound **5** and saturated with CO<sub>2</sub>.