crystals

MDPI

Communication

4-Phenylnaphtho[2,3-c]furan-1(3H)-one, 9-Phenylnaphtho[2,3-c]furan-1(3H)-one and 3a,4-Dihydro-9-phenylnaphtho[2,3-c]furan-1(3H)-one structures.

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Supplementary Materials

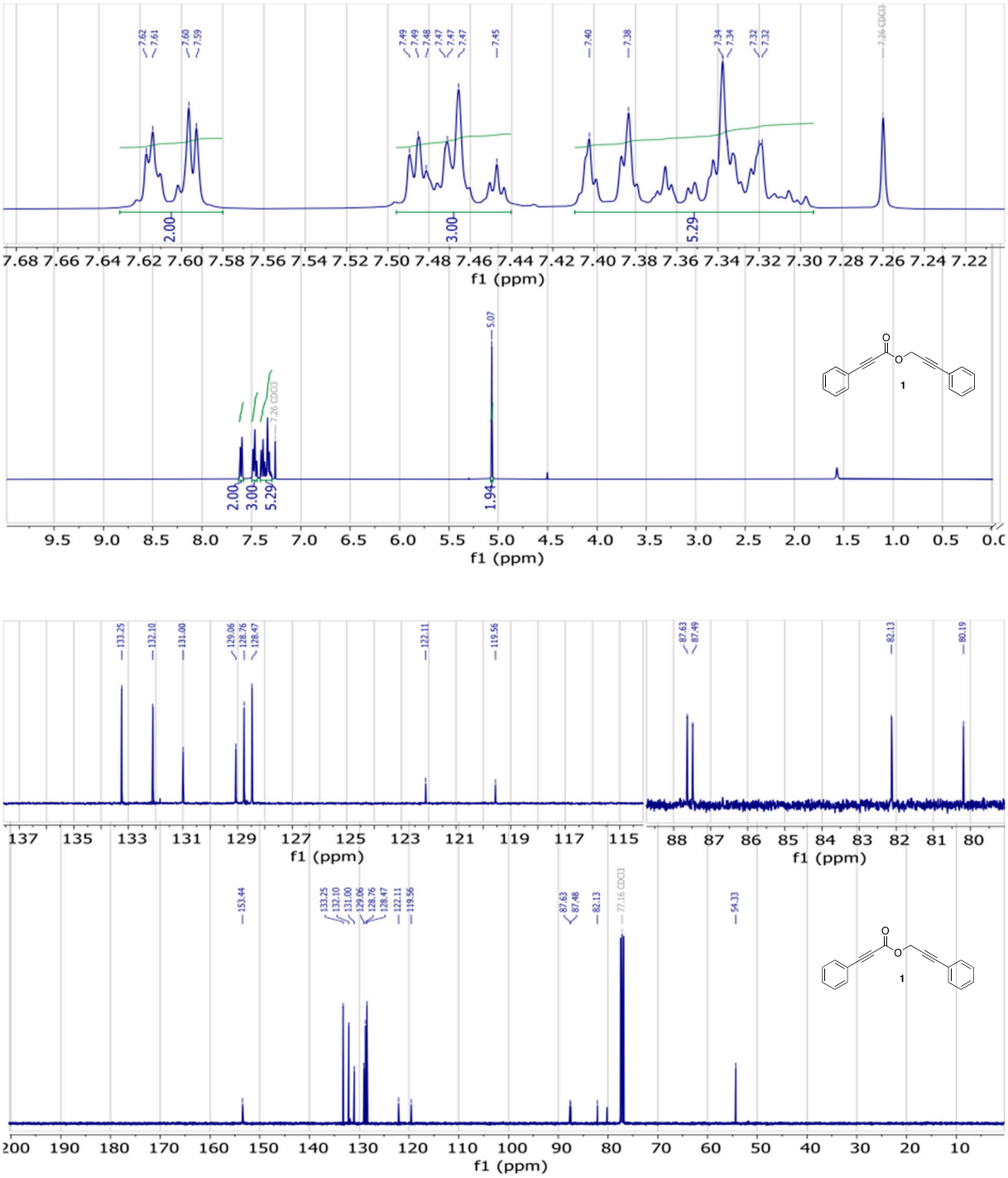

Figure S1. ^{1}H and ^{13}C NMR spectra (in $CDCl_3$) of ester **1**.

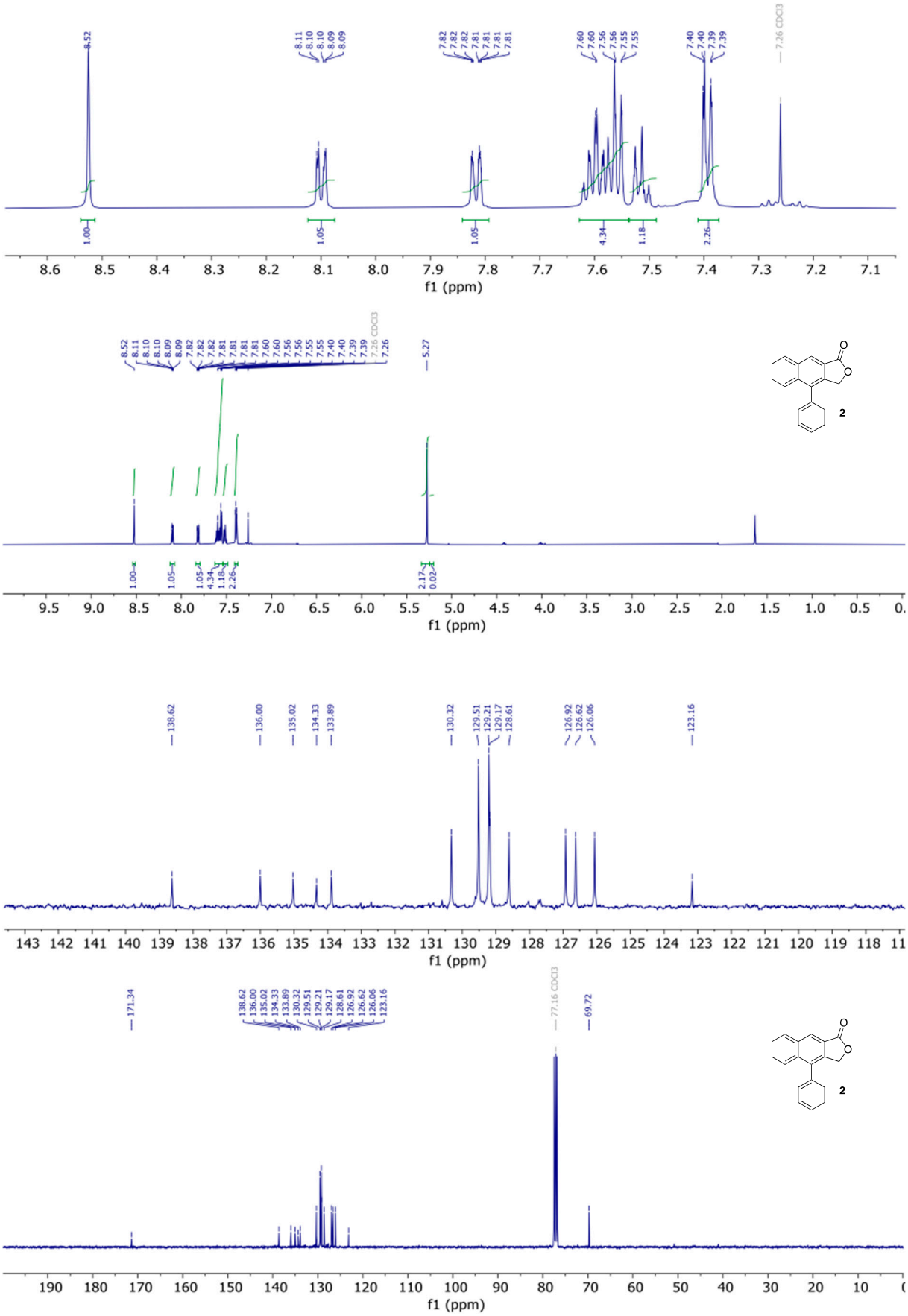

Figure S2. ^{1}H and ^{13}C NMR spectra (in $CDCl_3$) of of arylnaphthalene lactone **2**.

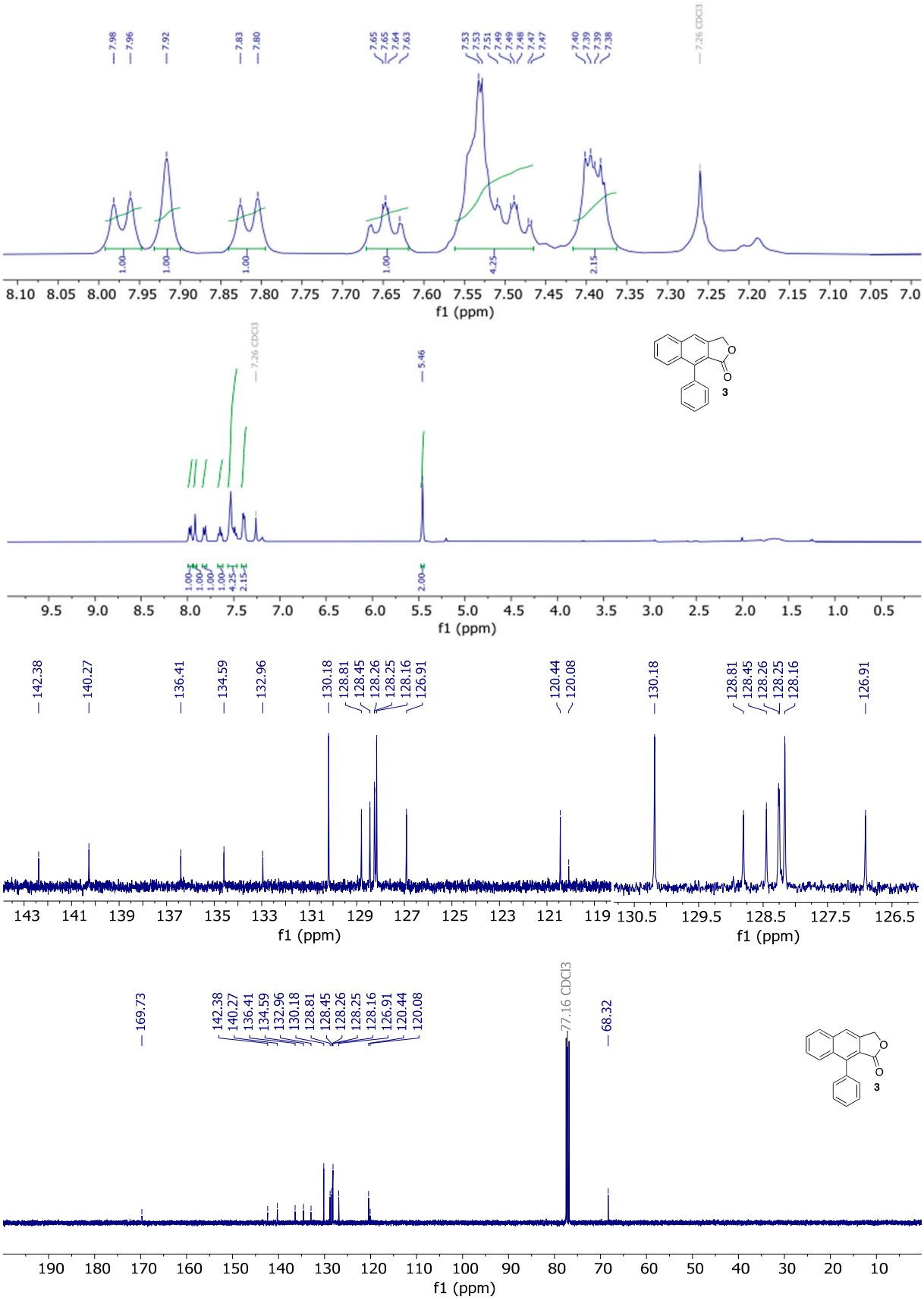

Figure S3. ^{1}H and ^{13}C NMR spectra (in $CDCl_3$) of arylnaphthalene lactone **3**.

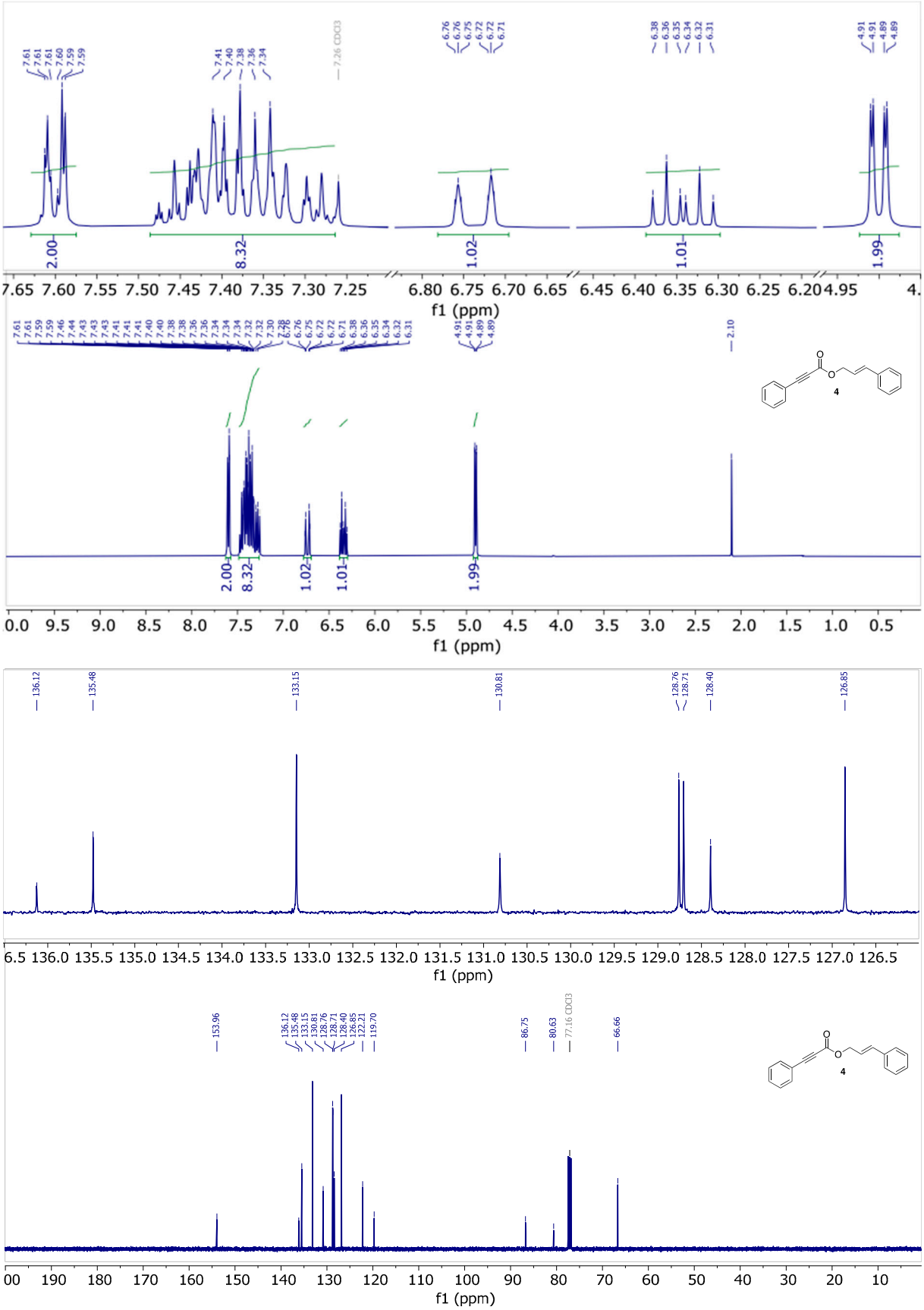

Figure S4. ^{1}H and ^{13}C NMR spectra (in $CDCl_3$) of ester **4**.

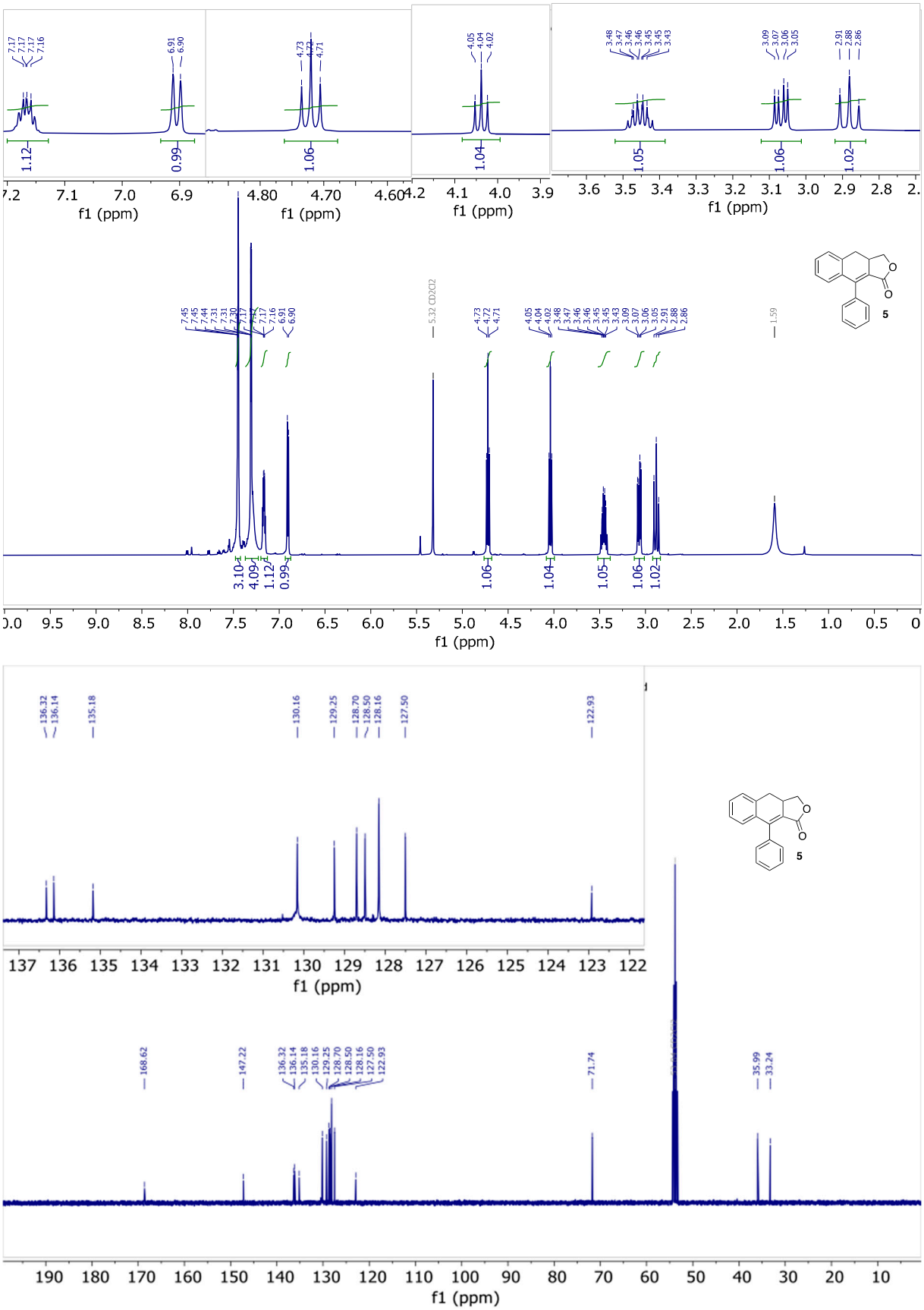

Figure S5. ^{1}H and ^{13}C NMR spectra (in CD_2Cl_2) of lactone **5**.

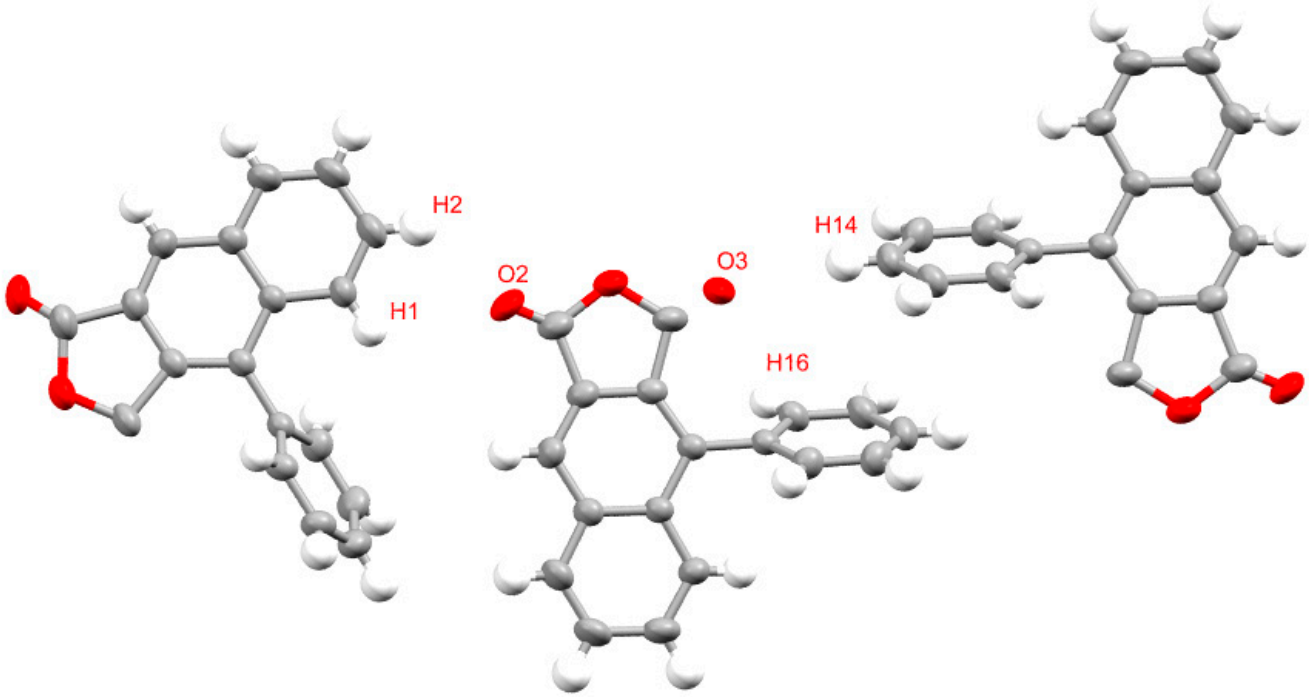

Figure S6. **Mixture 2-3** crystallize with two of isomers in the asymmetric unit and stabilized by hydrogen bond interaction of O3-H14, O3-H16, and O2-H1, O2-H2.

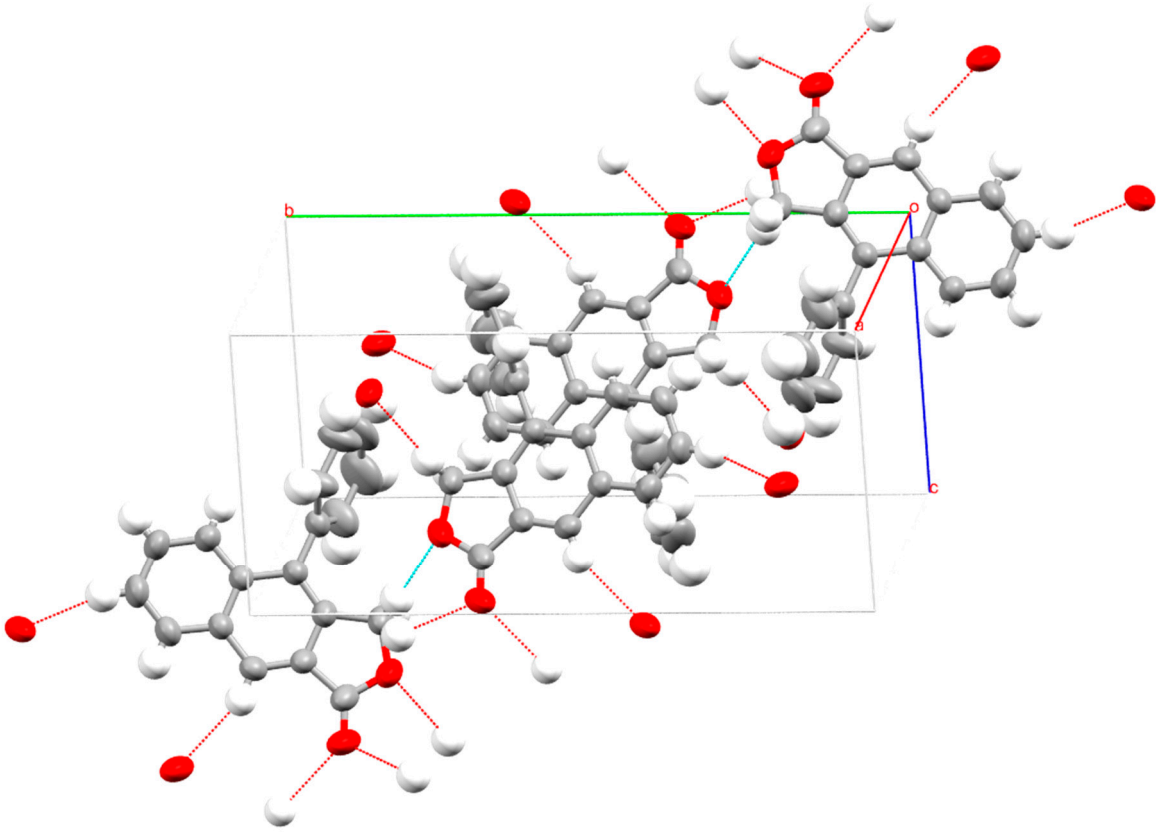

Figure S7. Packing and short contact for compound **2**

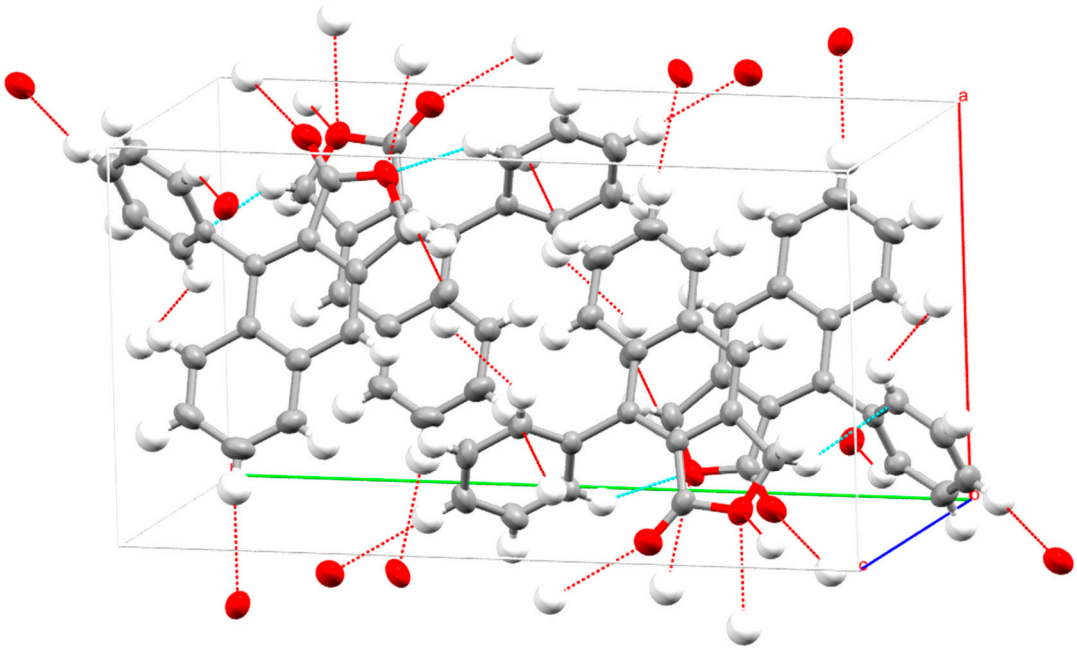

Figure S8. Packing and short contact for compound **3**.

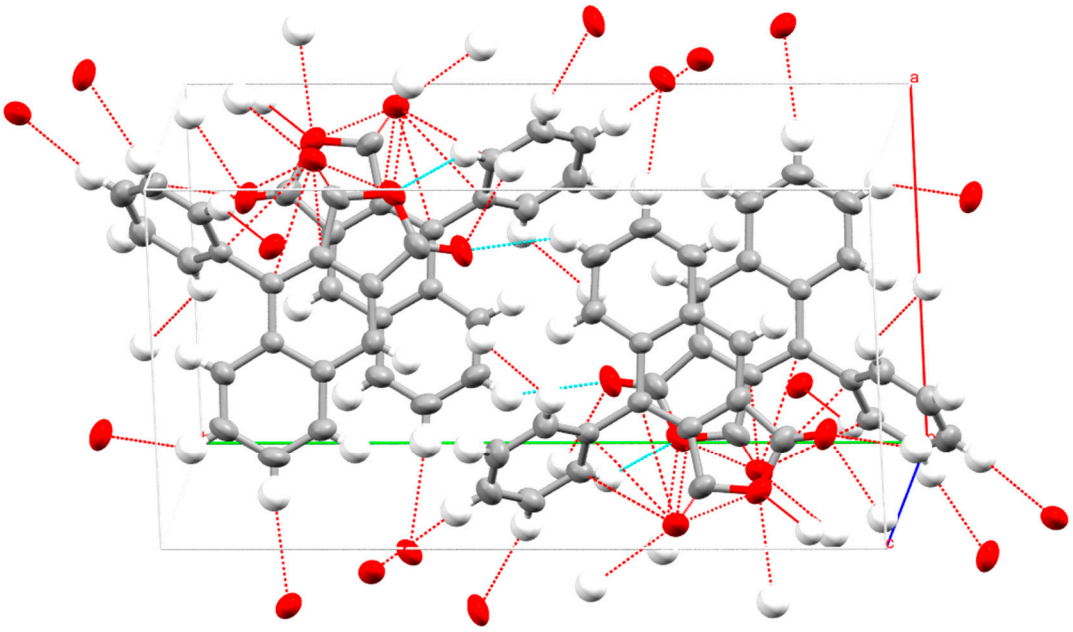

Figure S9. Packing and short contact for mixture **2-3**.

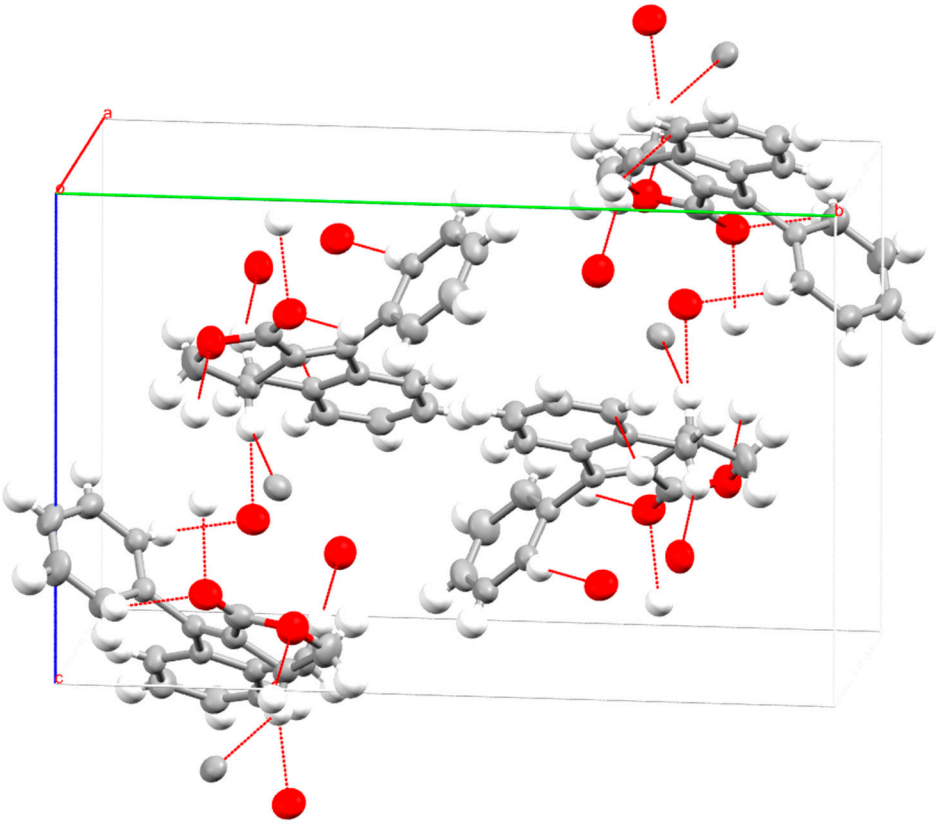

Figure S10. Packing and short contact for compound **5**.

Supplementary Materials: The following are available online at www.mdpi.com/xxx/s1, $^{1}H/^{13}C$ NMR spectra of all compounds described **1**-**5** (Figures S1–S5), asymmetric unit for **mixture 2,3** (Figure S6), and packing diagrams of compounds **2**, **3 mixture 2,3** and compound **5** (Figures S7-S10)

Author Contributions: Conceptualization, N.M. and S.C.; methodology, N.M. and W.Z.; software, W.Z.; validation, W.Z.; formal analysis, W.Z.; investigation, N.M.; resources, N.M and W.Z.; data curation, W.Z.; writing—original draft preparation, N.M, S.C. and W.Z.; writing—review and editing, N.M. and W.Z.; visualization, W.Z.; project administration, N.M. All authors have read and agreed to the published version of the manuscript.

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