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## SUPPORTING INFORMATION

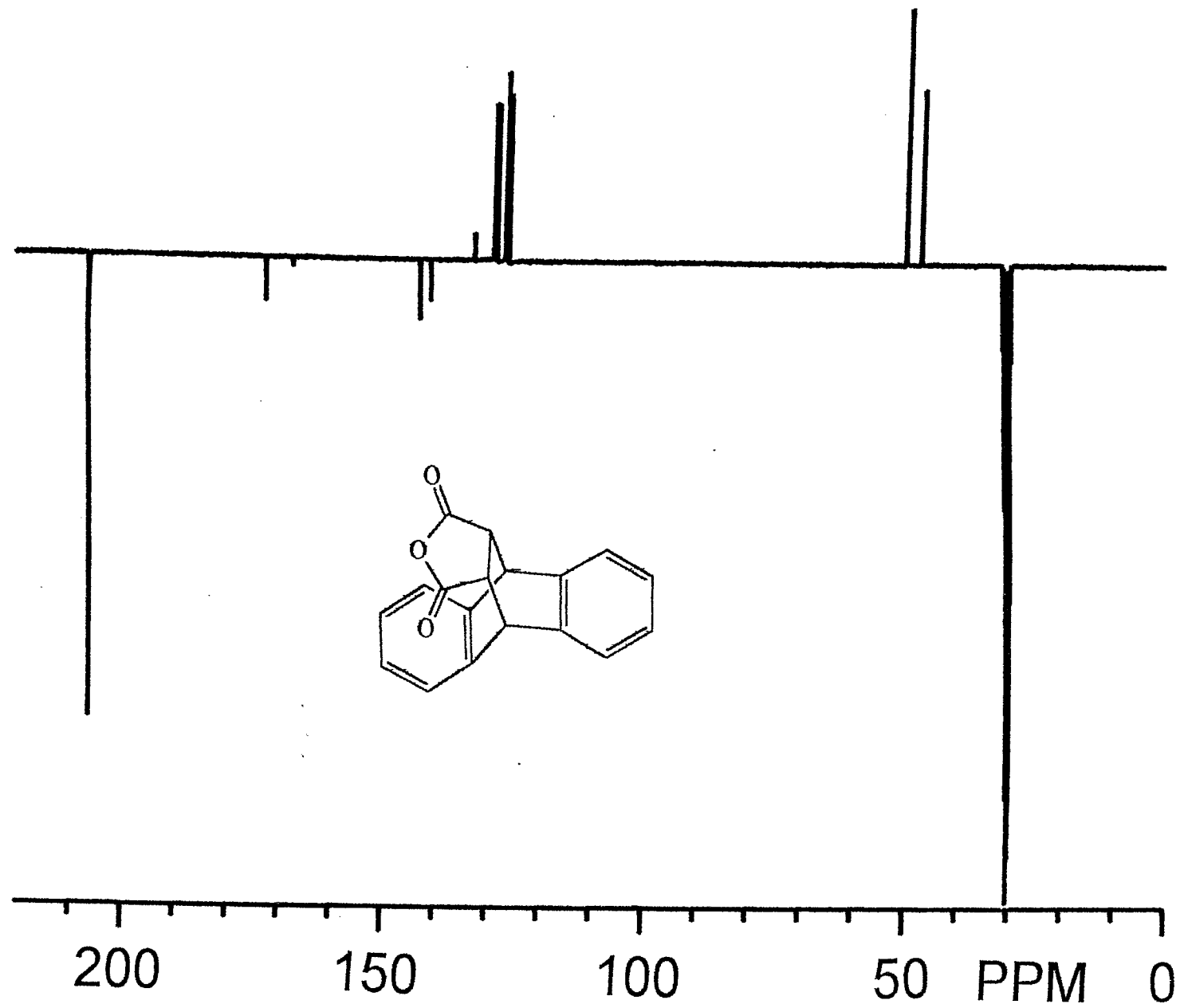
Figure A: Carbon-13 attached proton test NMR spectrum of the maleic anhydride / anthracene reaction product. The two strong -CH- resonances near 50 ppm confirm the double bond of maleic anhydride has reacted with anthracene.

Figure B: Carbon-13 attached proton test NMR spectrum of the maleic anhydride / anthracene adduct after refluxing in methanol. The anhydride linkage breaks open as indicated by two distinct carbonyl resonances near 175 ppm.

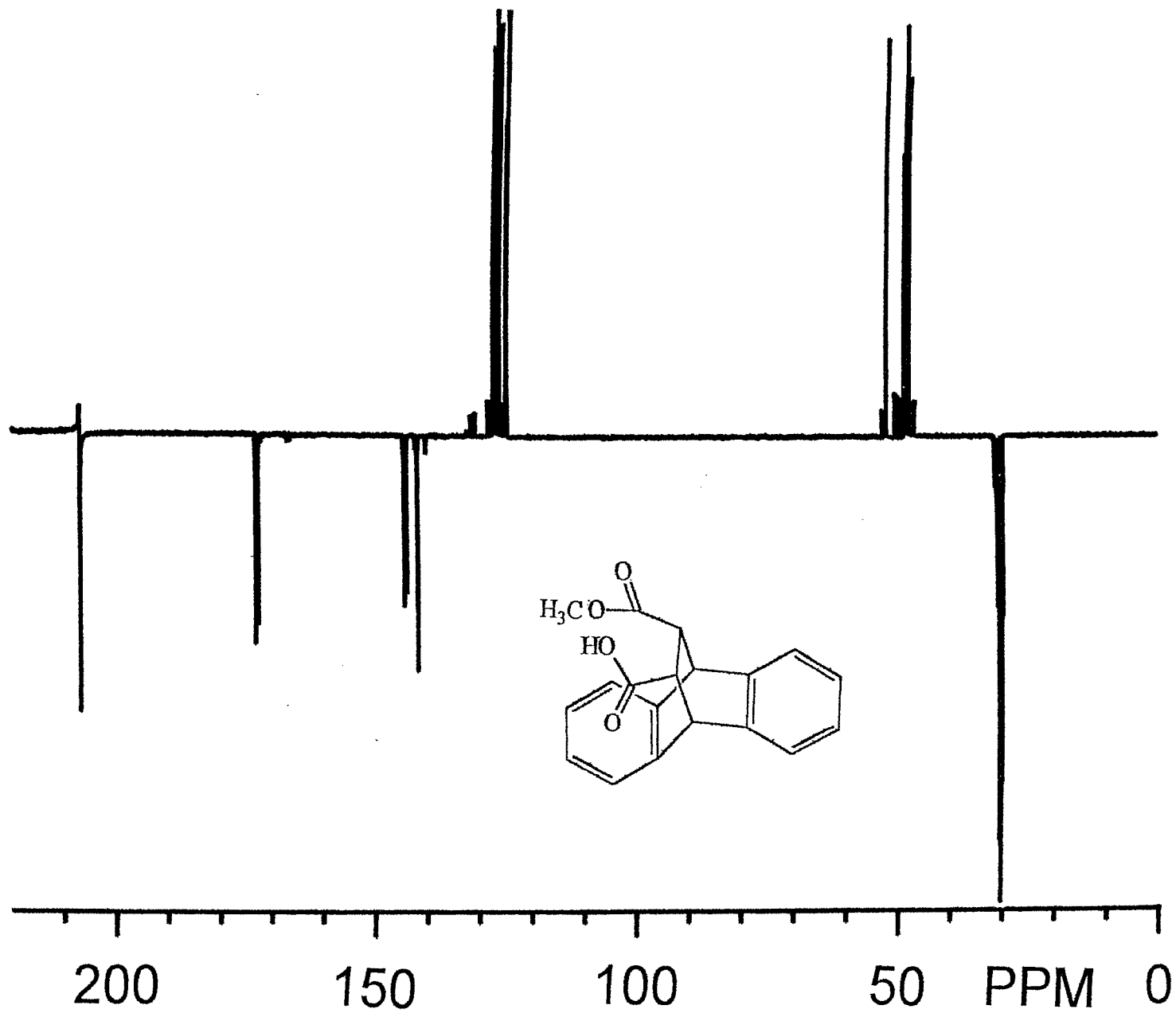
Figure C: Carbon-13 attached proton test NMR spectrum of the maleic anhydride / 2-naphthol adduct. The carbonyl carbons yield two distinct lines, and all five aliphatic resonances are clearly present.

Figure D: Carbon-13 attached proton test NMR spectrum of phenyl succinic anhydride.

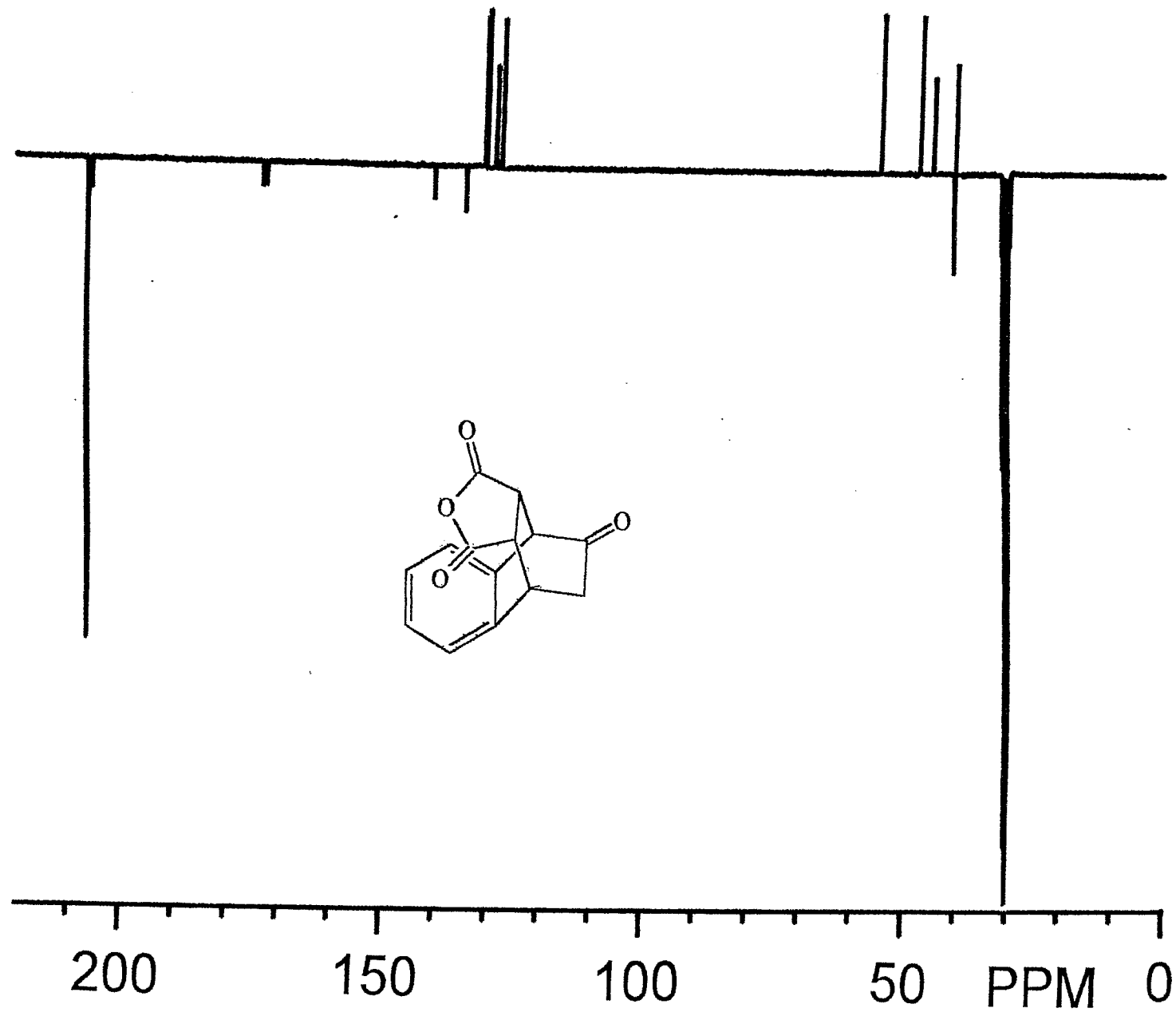
Figure E: Carbon-13 attached proton test NMR spectrum of the maleic anhydride / thiophenol adduct.



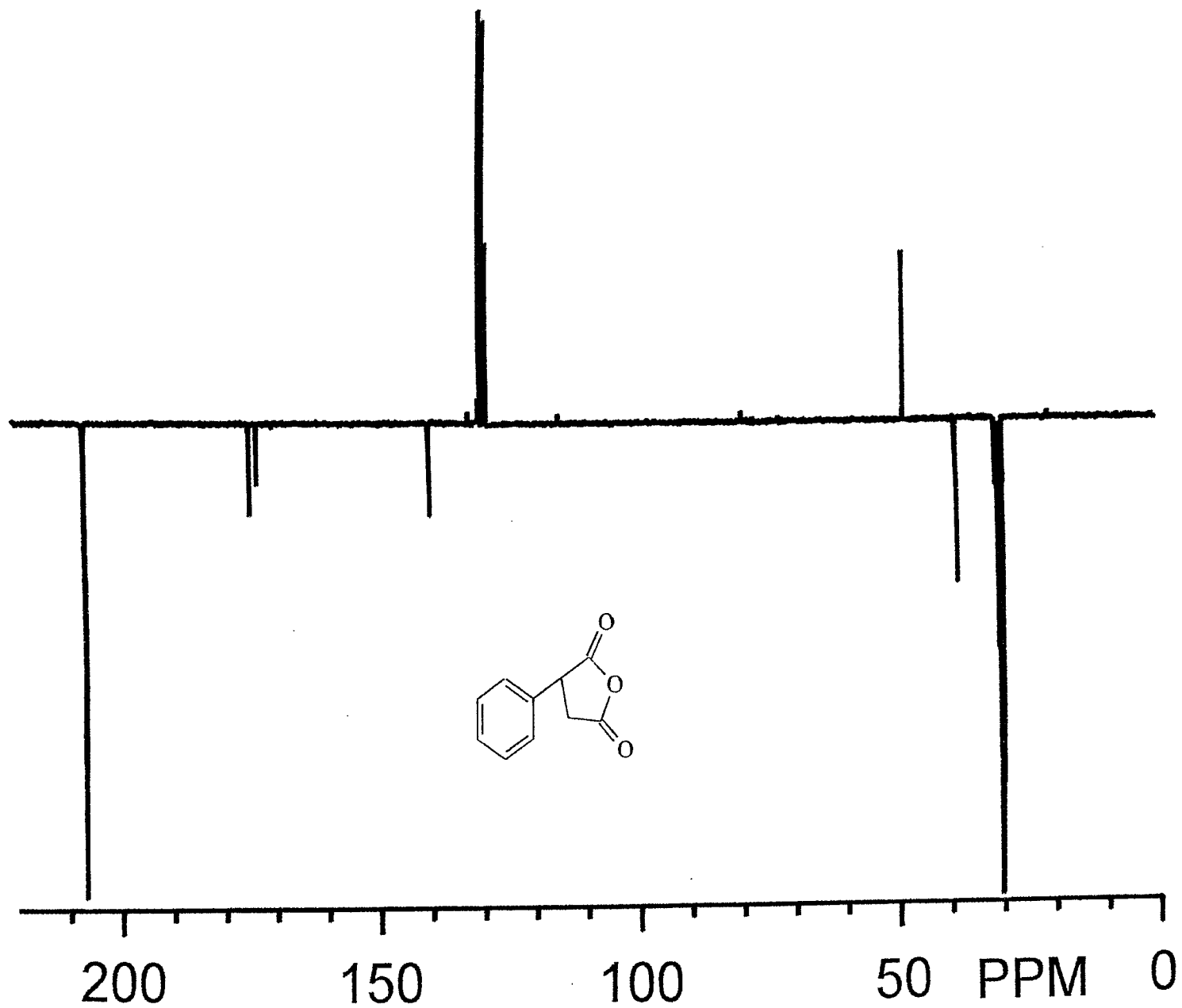
Supplementary Figure A, Larsen, Quay, and Roberts



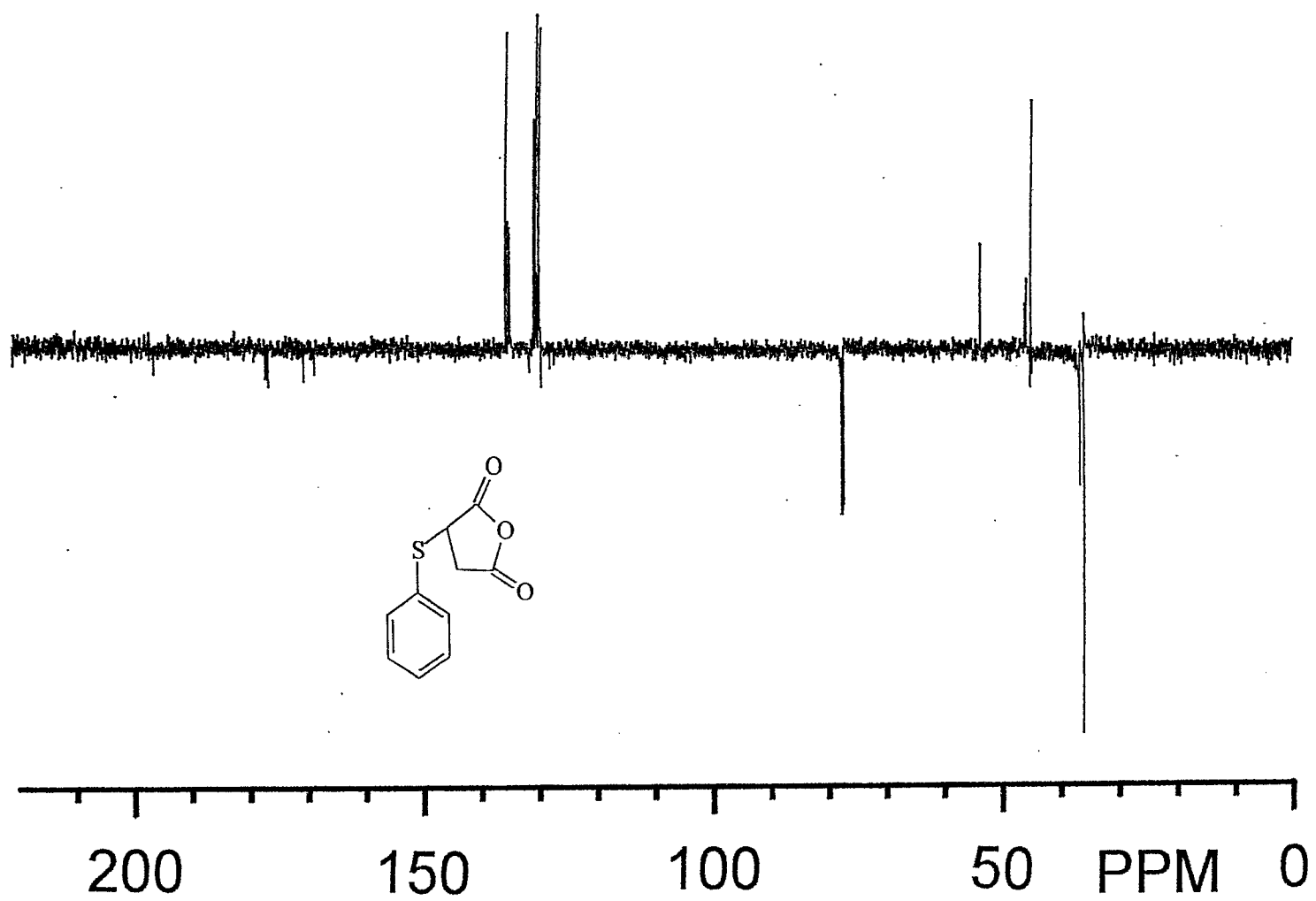
Supplementary Figure B, Larsen, Quay, and Roberts



Supplementary Figure C, Larsen, Quay, and Roberts



Supplementary Figure D, Larsen, Quay, and Roberts



Supplementary Figure E, Larsen, Quay, and Roberts