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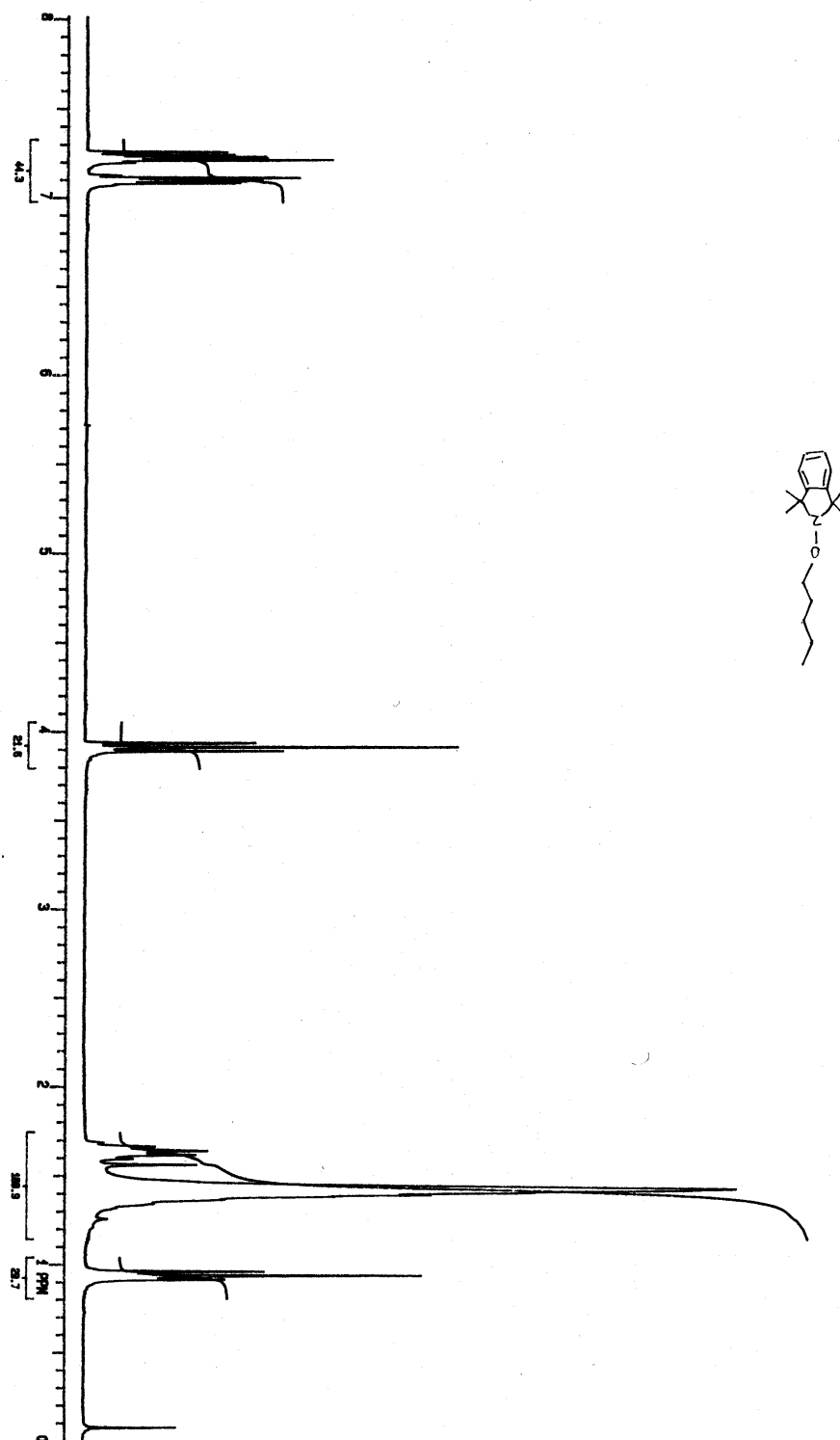
**Factors Affecting the Rates of Addition of Free Radicals to Alkenes –
Determination of Absolute Rate Coefficients Using the Persistent Aminoxyl
Method**

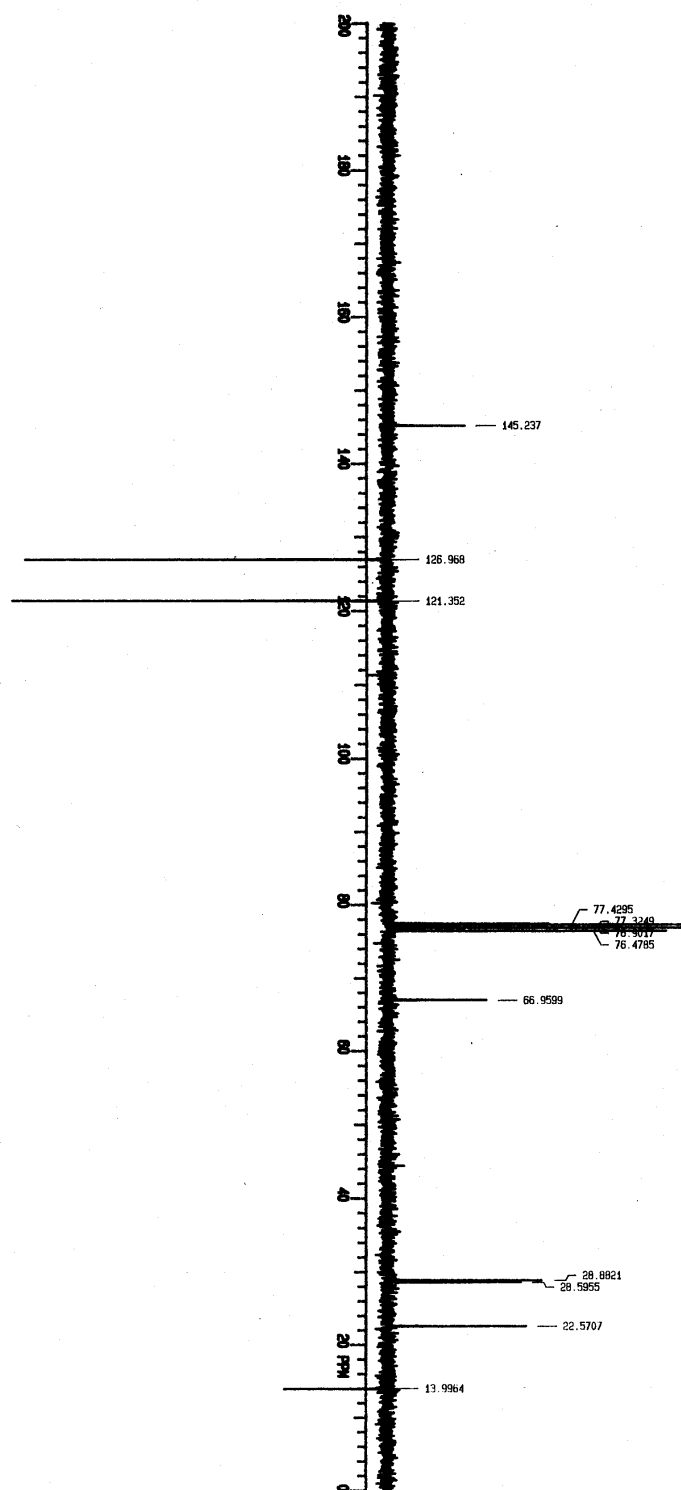
Athelstan L.J. Beckwith* and James S. Poole^a

Nuclear Magnetic Spectra for Compounds Characterised in this Study

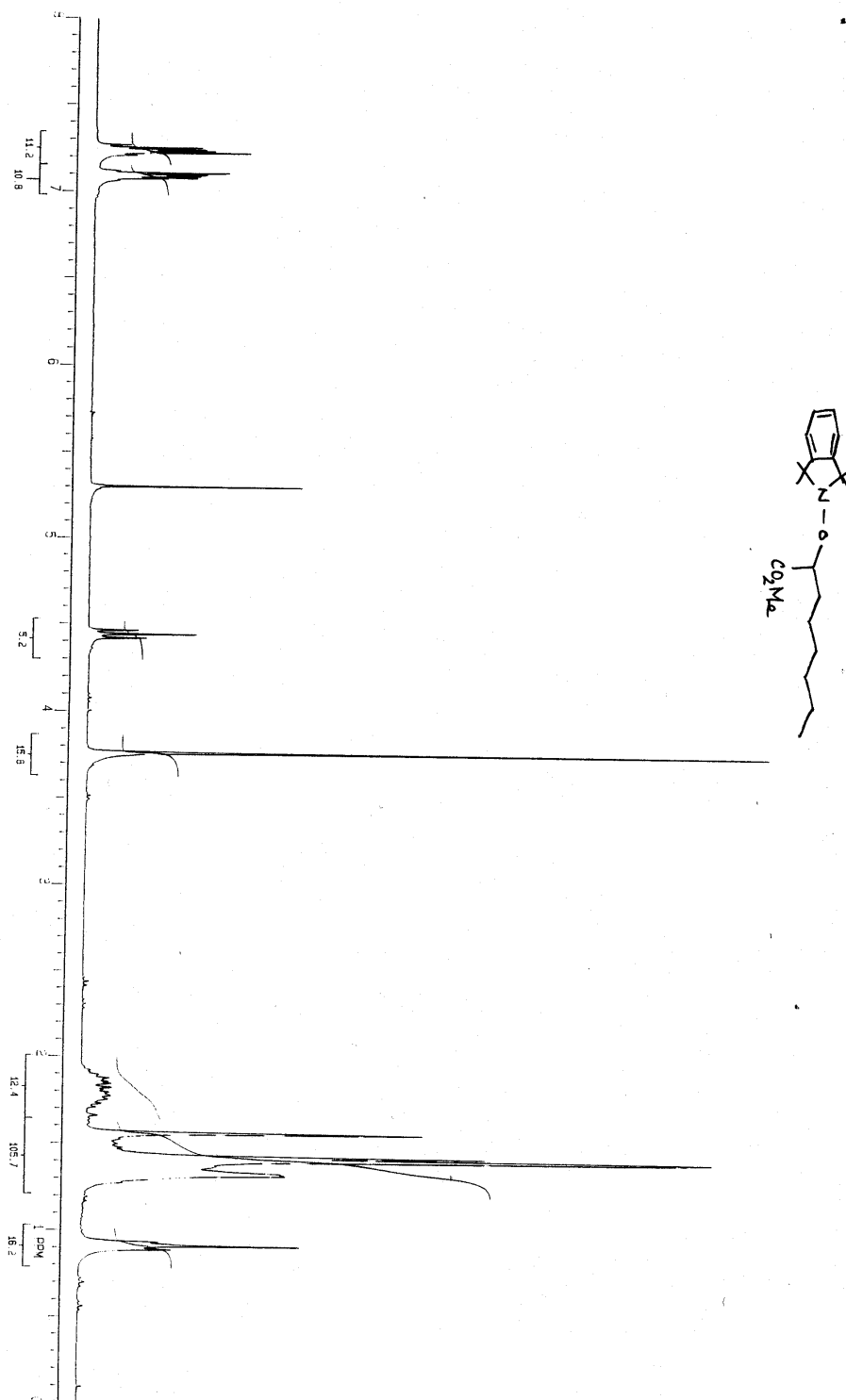
Page

- 2** 2-Pentoxy-1,1,3,3-tetramethylisoindoline (3b) ¹H NMR
- 3** 2-Pentoxy-1,1,3,3-tetramethylisoindoline (3b) ¹³C NMR
- 4** 2-(1'-Methoxycarbonylheptanoxy)-1,1,3,3-tetramethylisoindoline (5b) ¹H NMR
- 5** 2-(1'-Methoxycarbonylheptanoxy)-1,1,3,3-tetramethylisoindoline (5b) ¹³C NMR
- 6** 2-(2'-Pentoxy)-1,1,3,3-tetramethylisoindoline (3c) ¹H NMR
- 7** 2-(2'-Pentoxy)-1,1,3,3-tetramethylisoindoline (3c) ¹³C NMR
- 8** 2-(1'-Methoxycarbonyl-3'-methylhexanoxy)-1,1,3,3-tetramethylisoindoline (5c) ¹H NMR
- 9** 2-(1'-Methoxycarbonyl-3'-methylhexanoxy)-1,1,3,3-tetramethylisoindoline (5c) ¹³C NMR
- 10** 2-Cyclohexyloxy-1,1,3,3-tetramethylisoindoline (3d) ¹H NMR
- 11** 2-Cyclohexyloxy-1,1,3,3-tetramethylisoindoline (3d) ¹³C NMR
- 12** 2-[2'-Cyclohexyl-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5d) ¹H NMR
- 13** 2-[2'-Cyclohexyl-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5d) ¹³C NMR
- 14** 2-(1',1'-Dimethylpropoxy)-1,1,3,3-tetramethylisoindoline (3e) ¹H NMR
- 15** 2-(1',1'-Dimethylpropoxy)-1,1,3,3-tetramethylisoindoline (3e) ¹³C NMR
- 16** 2-(1'-Methoxycarbonyl-3',3'-dimethylpentoxy)-1,1,3,3-tetramethylisoindoline (5e) ¹H NMR
- 17** 2-(1'-Methoxycarbonyl-3',3'-dimethylpentoxy)-1,1,3,3-tetramethylisoindoline (5e) ¹³C NMR
- 18** 2-(1'-Adamantyl)-1,1,3,3-tetramethylisoindoline (3f) ¹H NMR
- 19** 2-(1'-Adamantyl)-1,1,3,3-tetramethylisoindoline (3f) ¹³C NMR
- 20** 2-[2'-(1''-Adamantyl)-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5f) ¹H NMR
- 21** 2-[2'-(1''-Adamantyl)-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5f) ¹³C NMR
- 22** 2-[4',4'-dimethyl-1'-(methoxycarbonyl)pent-1'-oxy]-1,1,3,3-tetramethylisoindoline (5g) ¹H NMR
- 23** 2-[4',4'-dimethyl-1'-(methoxycarbonyl)pent-1'-oxy]-1,1,3,3-tetramethylisoindoline (5g) ¹³C NMR

2-Pentoxy-1,1,3,3-tetramethylisoindoline (3b) ^1H NMR

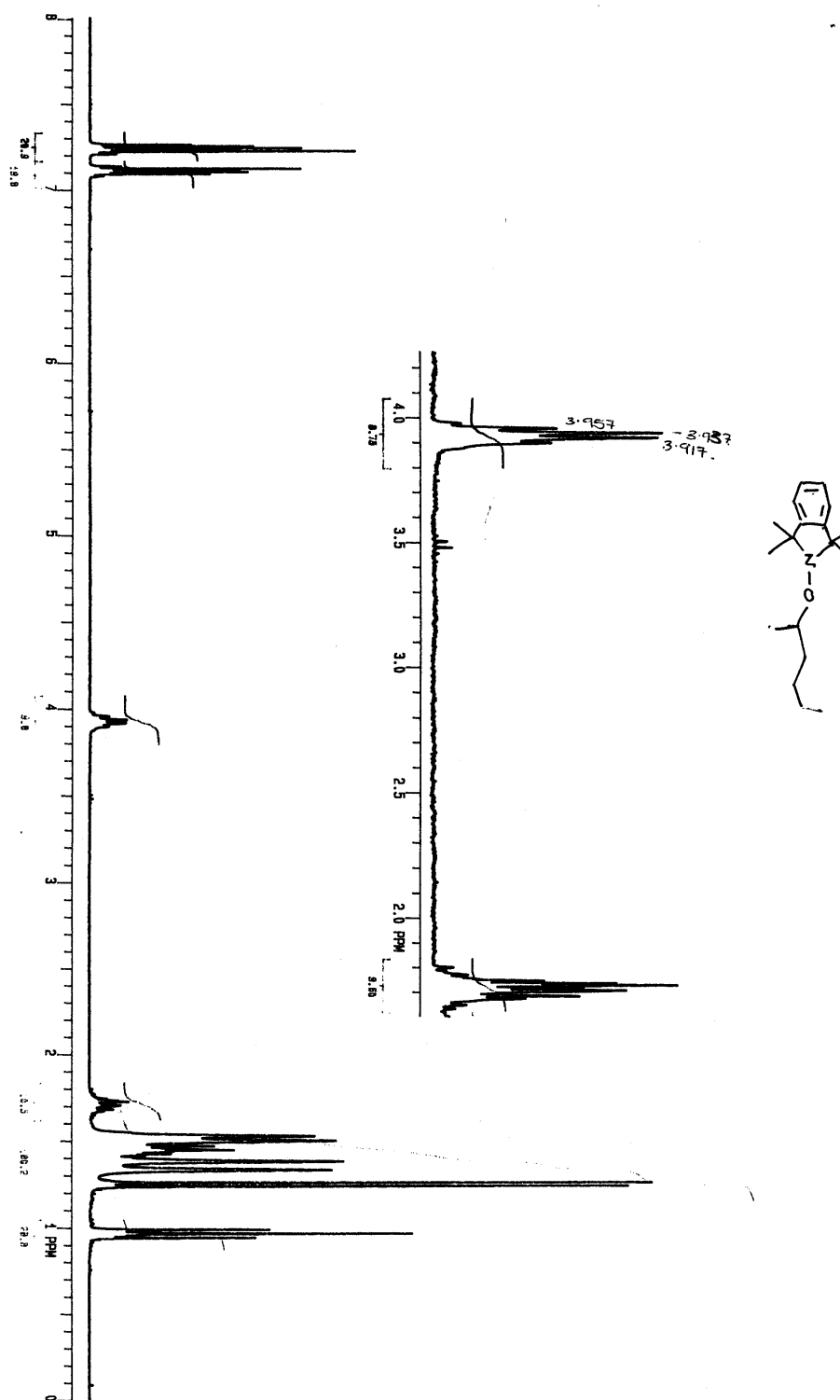
2-Pentoxy-1,1,3,3-tetramethylisoindoline (3b) ^{13}C NMR

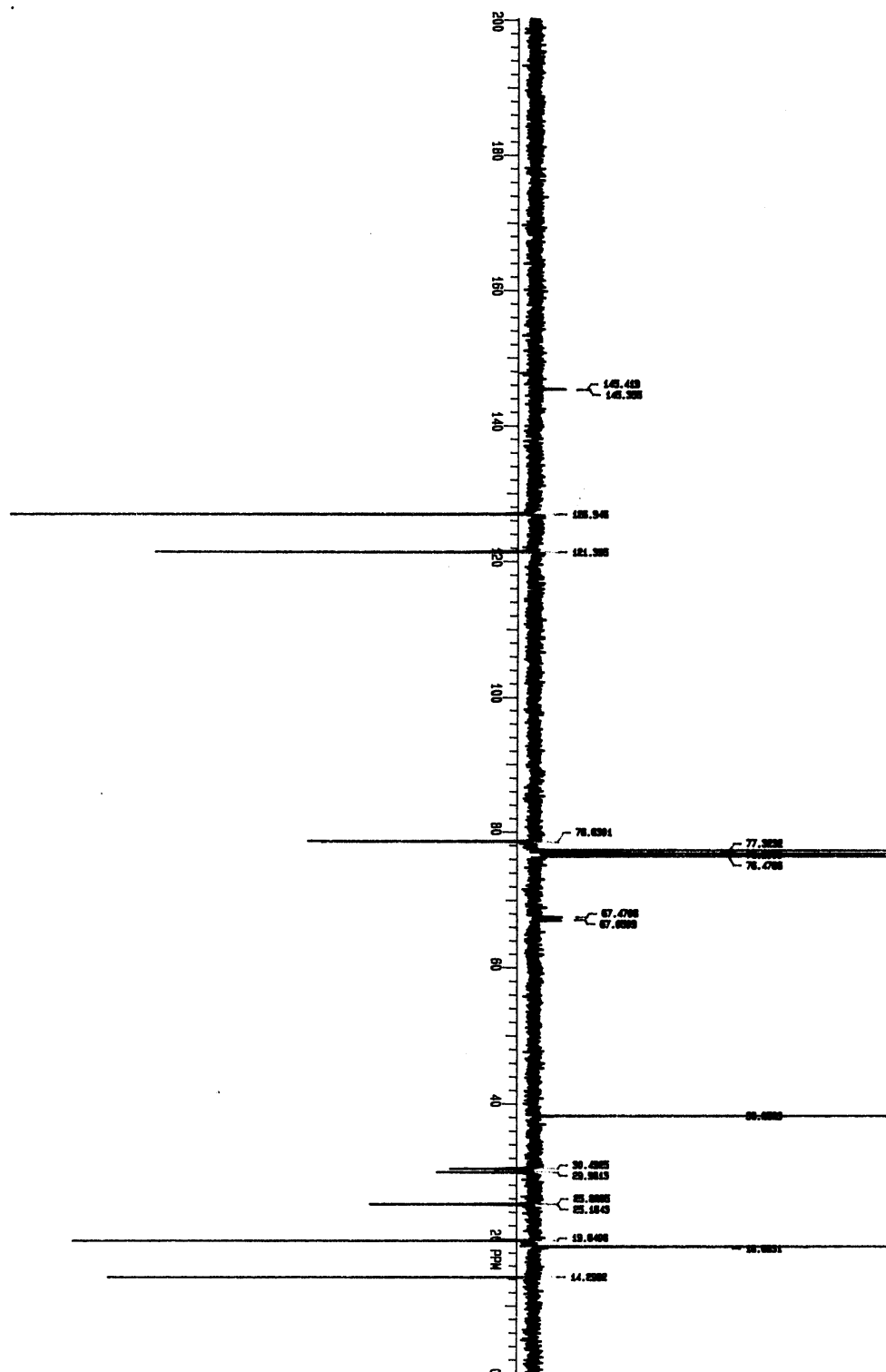
2-(1'-Methoxycarbonylheptanoxo)-1,1,3,3-tetramethylisoindoline (5b)
 ^1H NMR



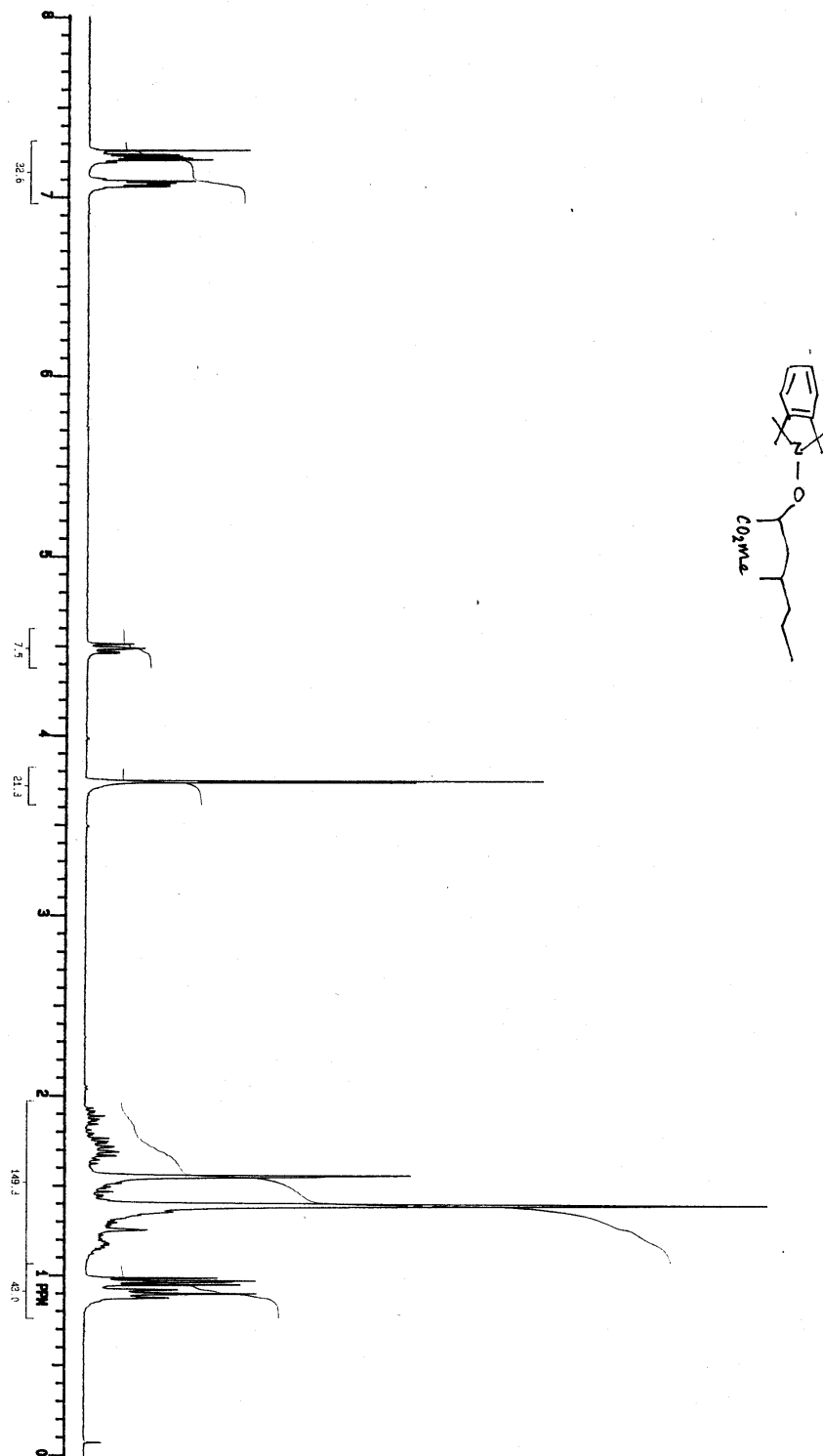
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 ^{13}C NMR



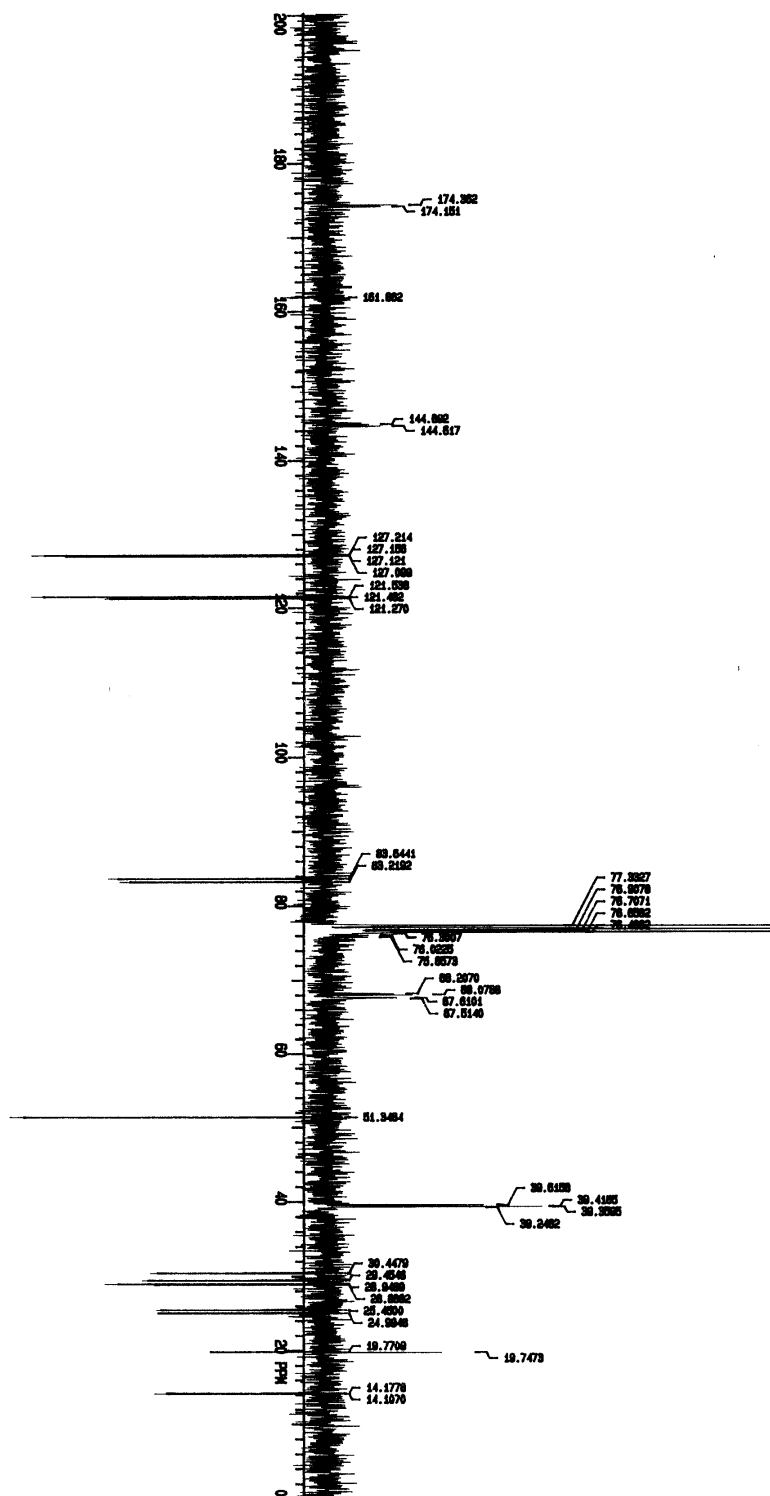
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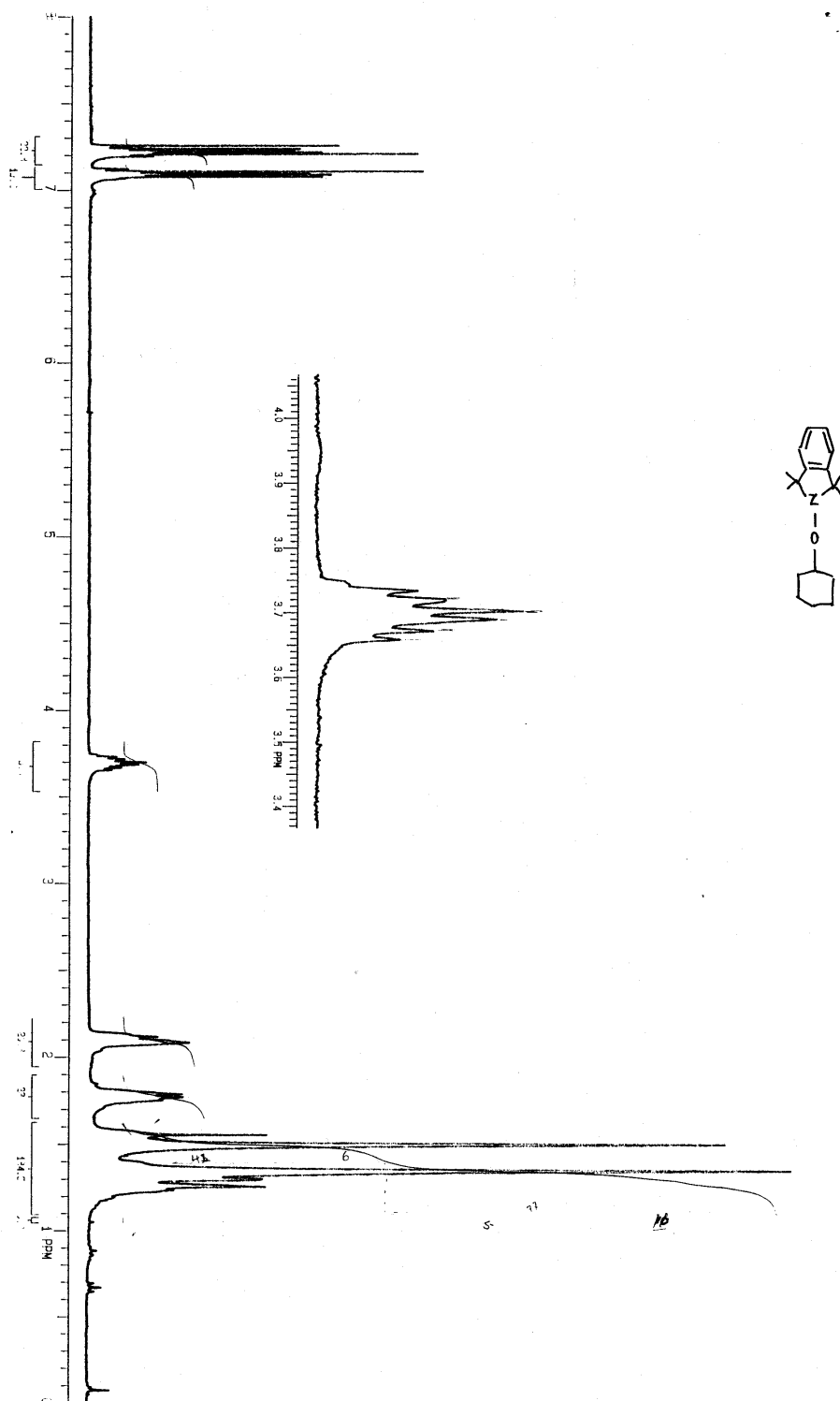
2-(2'-Pentoxy)-1,1,3,3-tetramethylisoindoline (3c) ^{13}C NMR

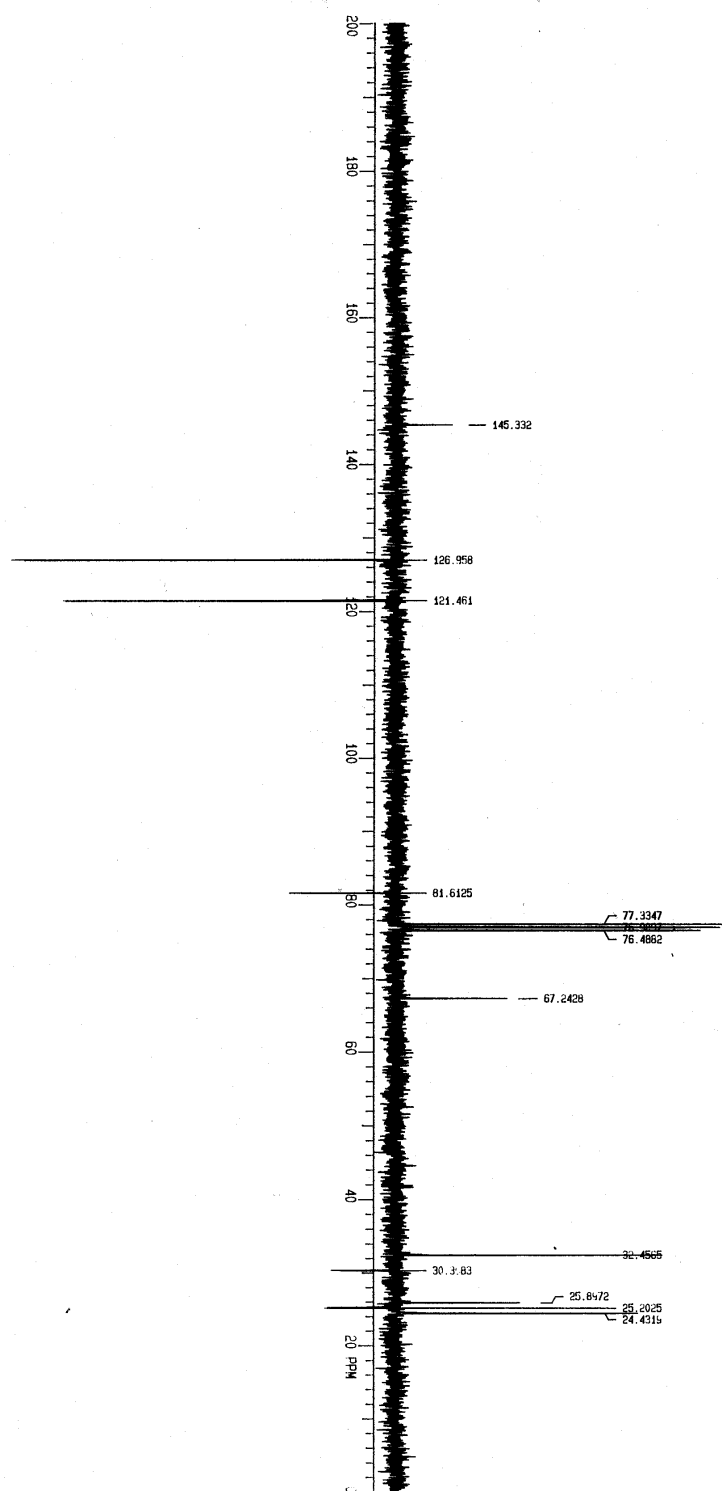
2-(1'-Methoxycarbonyl-3'-methylhexanoxy)-1,1,3,3-tetramethylisoindoline (5c) ^1H NMR



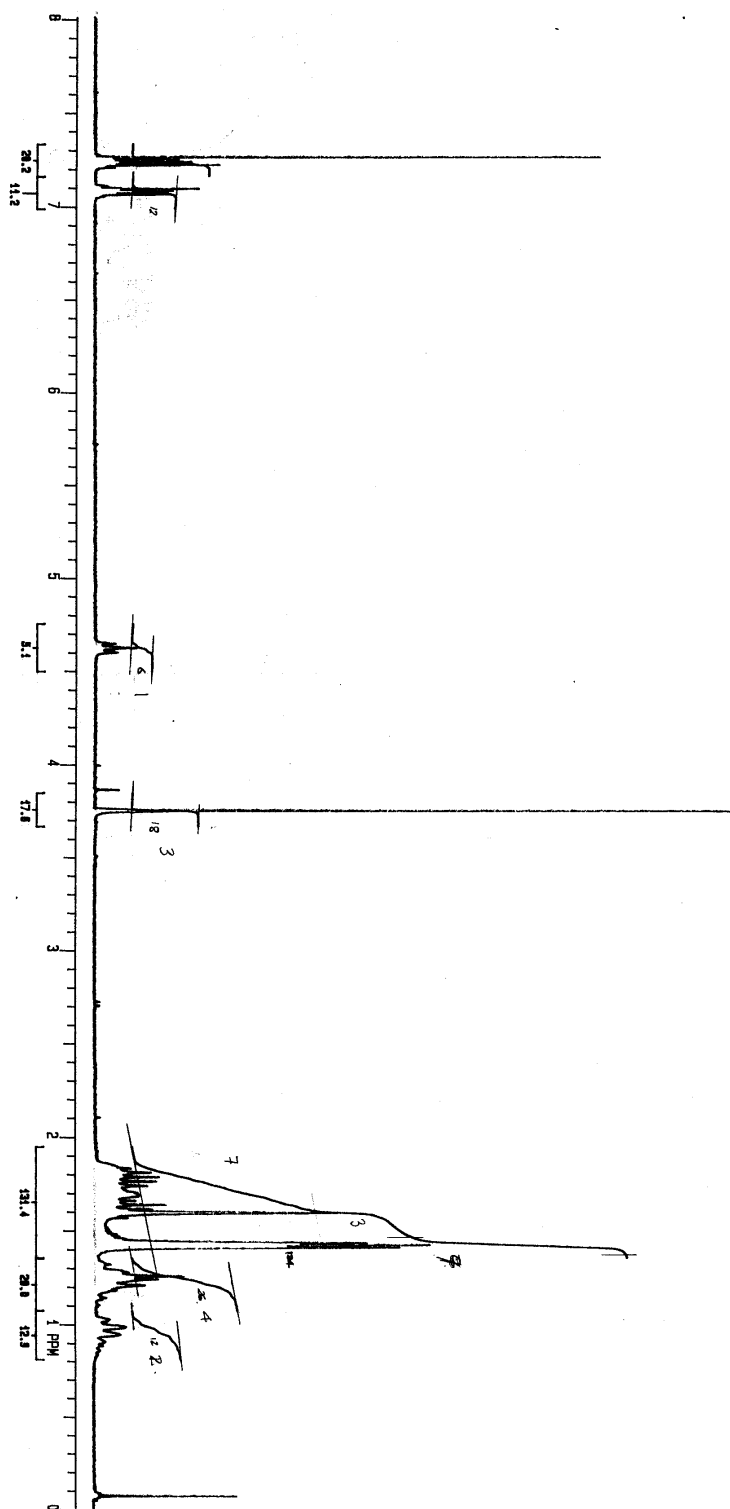
2-(1'-Methoxycarbonyl-3'-methylhexanoxy)-1,1,3,3-tetramethylisoindoline (5c) ^{13}C NMR



2-Cyclohexyloxy-1,1,3,3-tetramethylisoindoline (3d) ^1H NMR

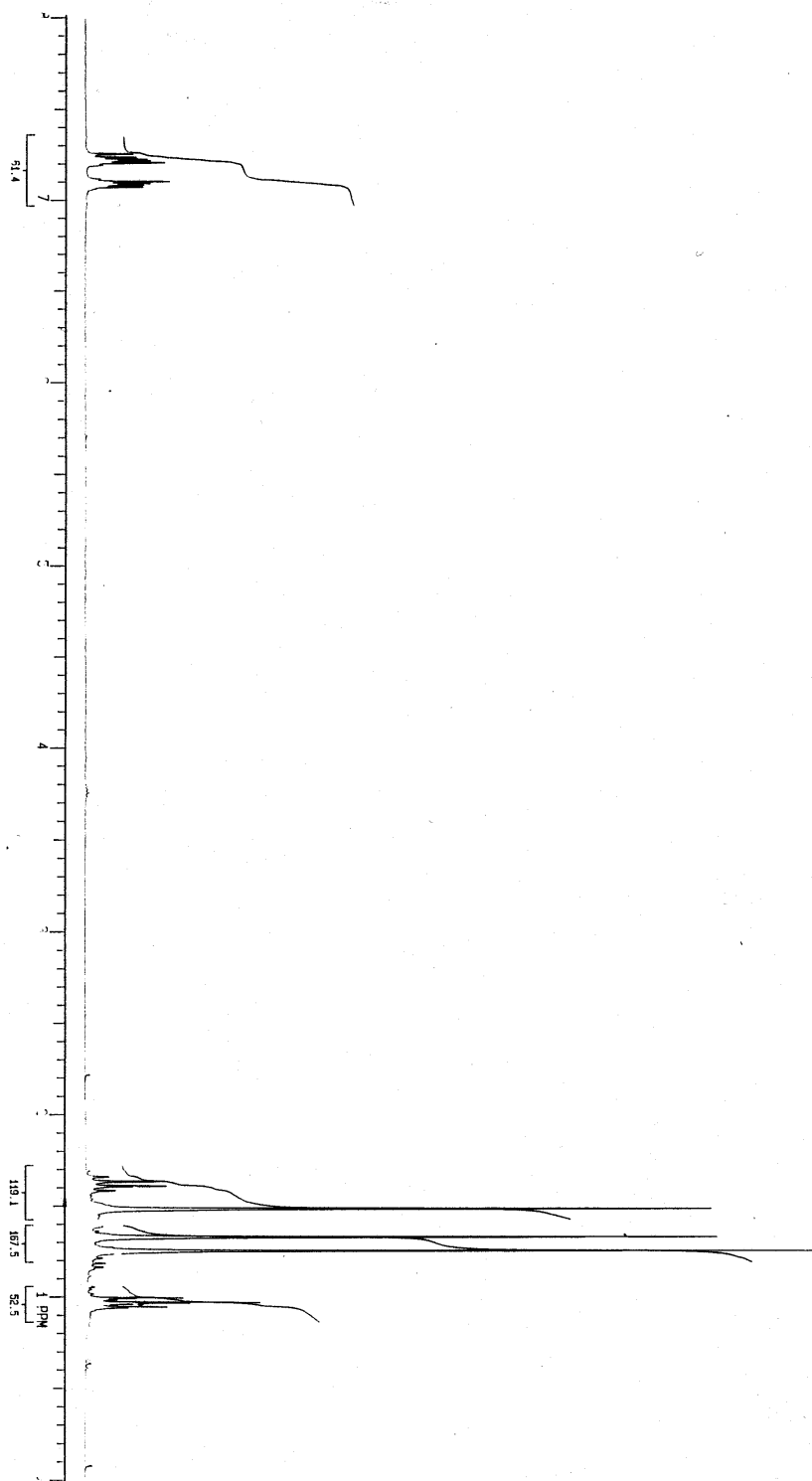
2-Cyclohexyloxy-1,1,3,3-tetramethylisoindoline (3d) ^{13}C NMR

2-[2'-Cyclohexyl-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5d) ^1H NMR

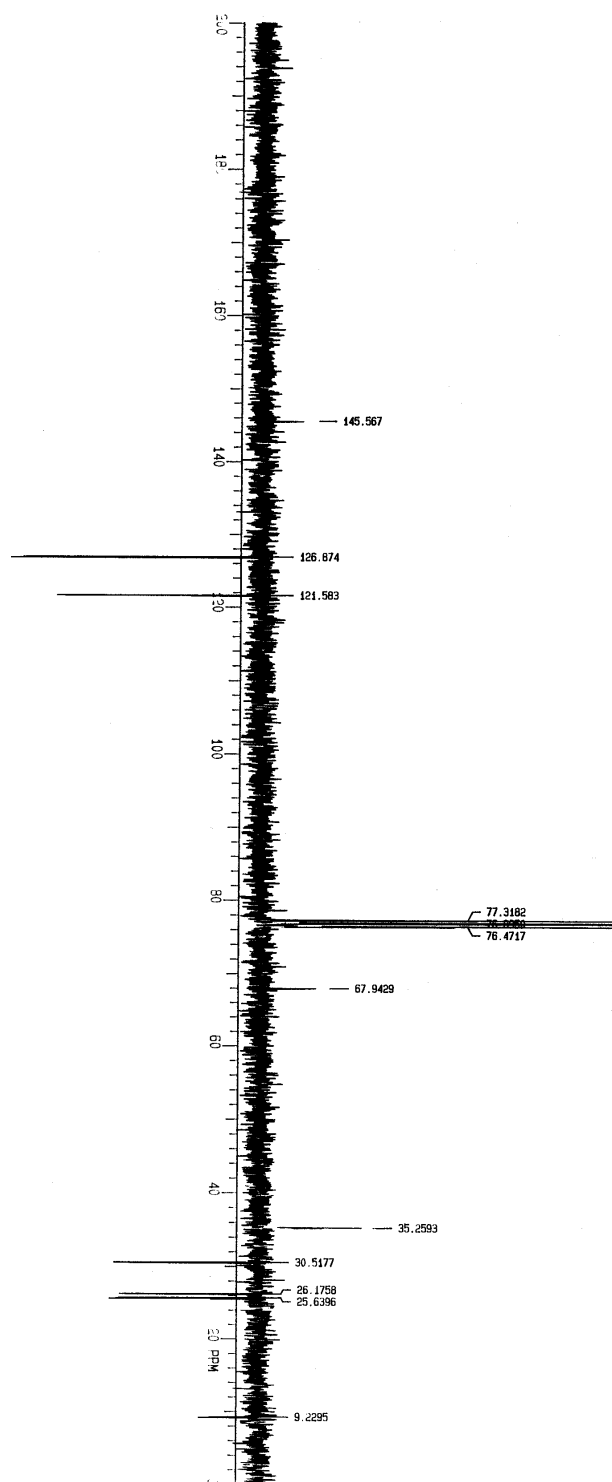


2-[2'-Cyclohexyl-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5d) ^{13}C NMR

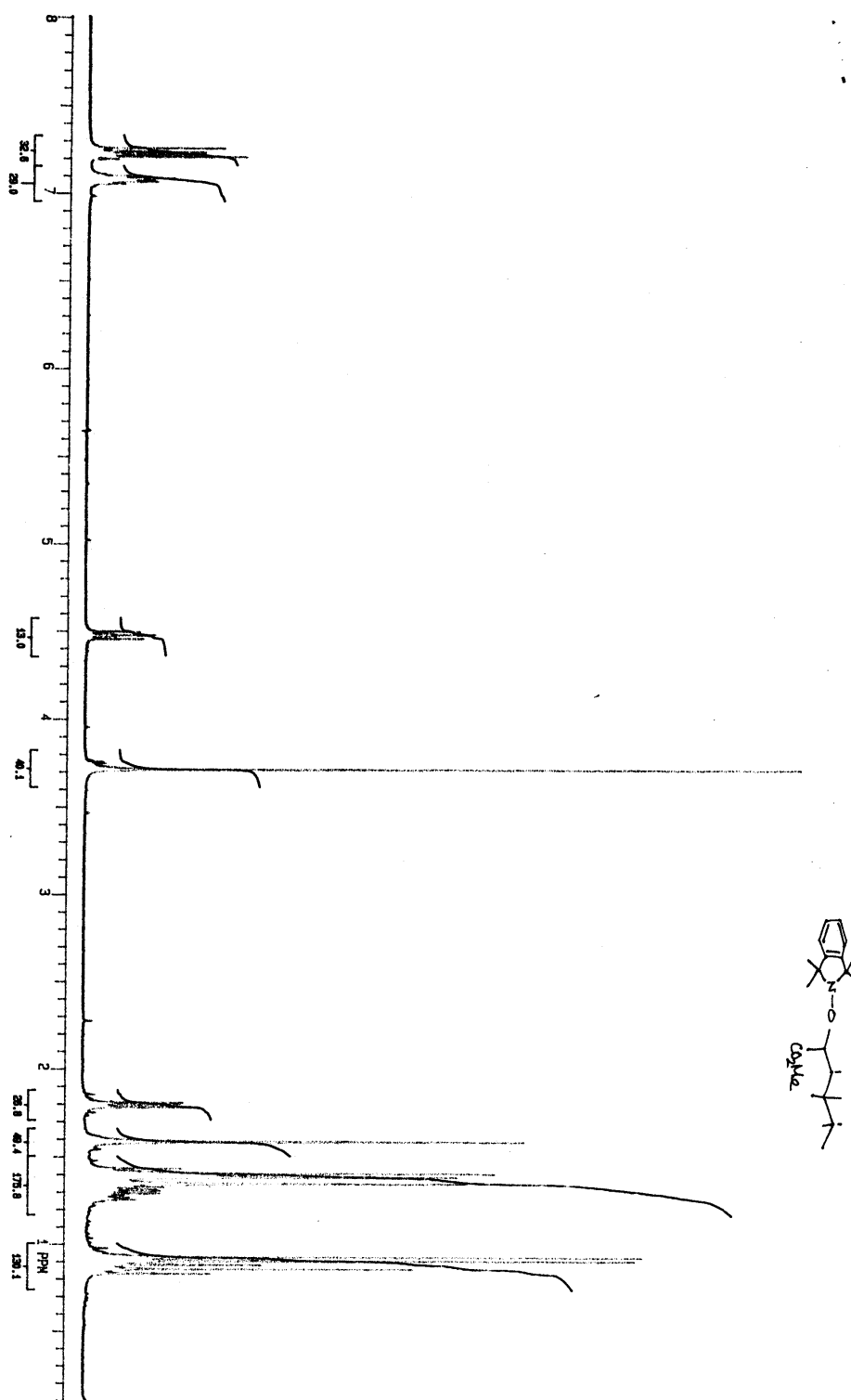


2-(1',1'-Dimethylpropoxy)-1,1,3,3-tetramethylisoindoline (3e) ^1H NMR

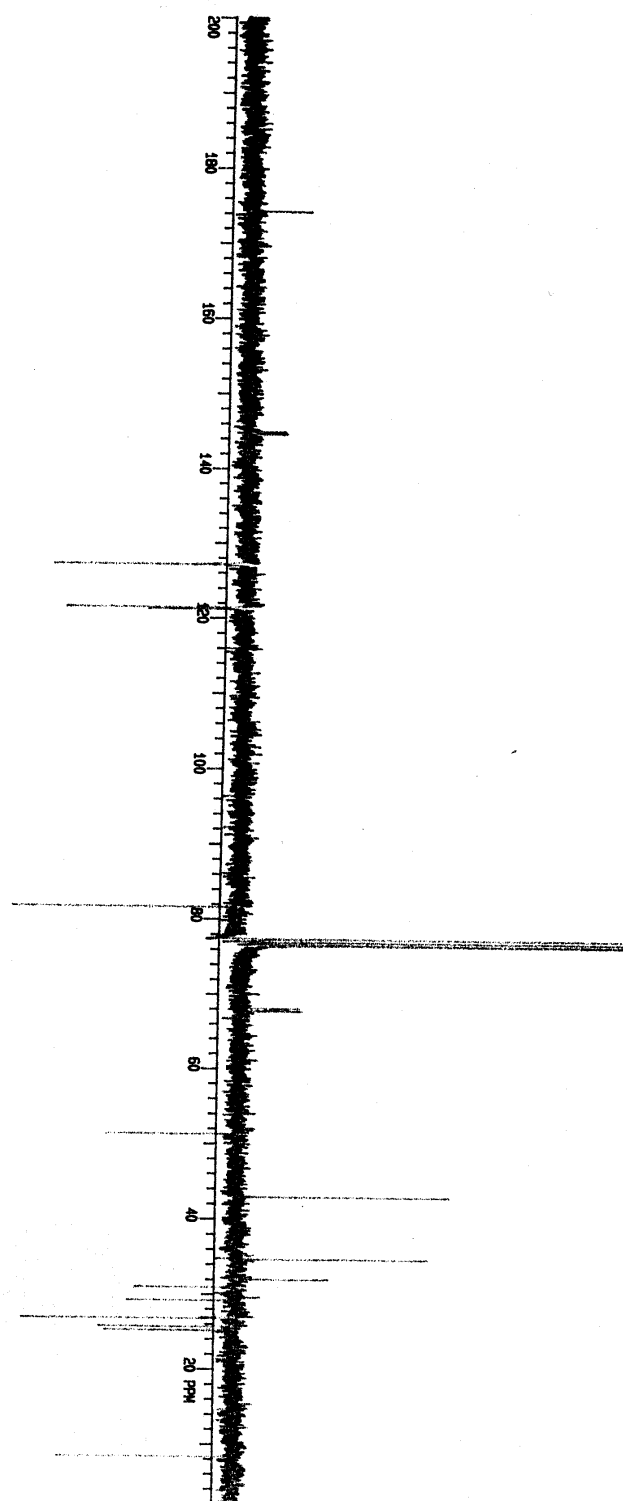
2-(1',1'-Dimethylpropoxy)-1,1,3,3-tetramethylisoindoline (3e) ^{13}C
NMR

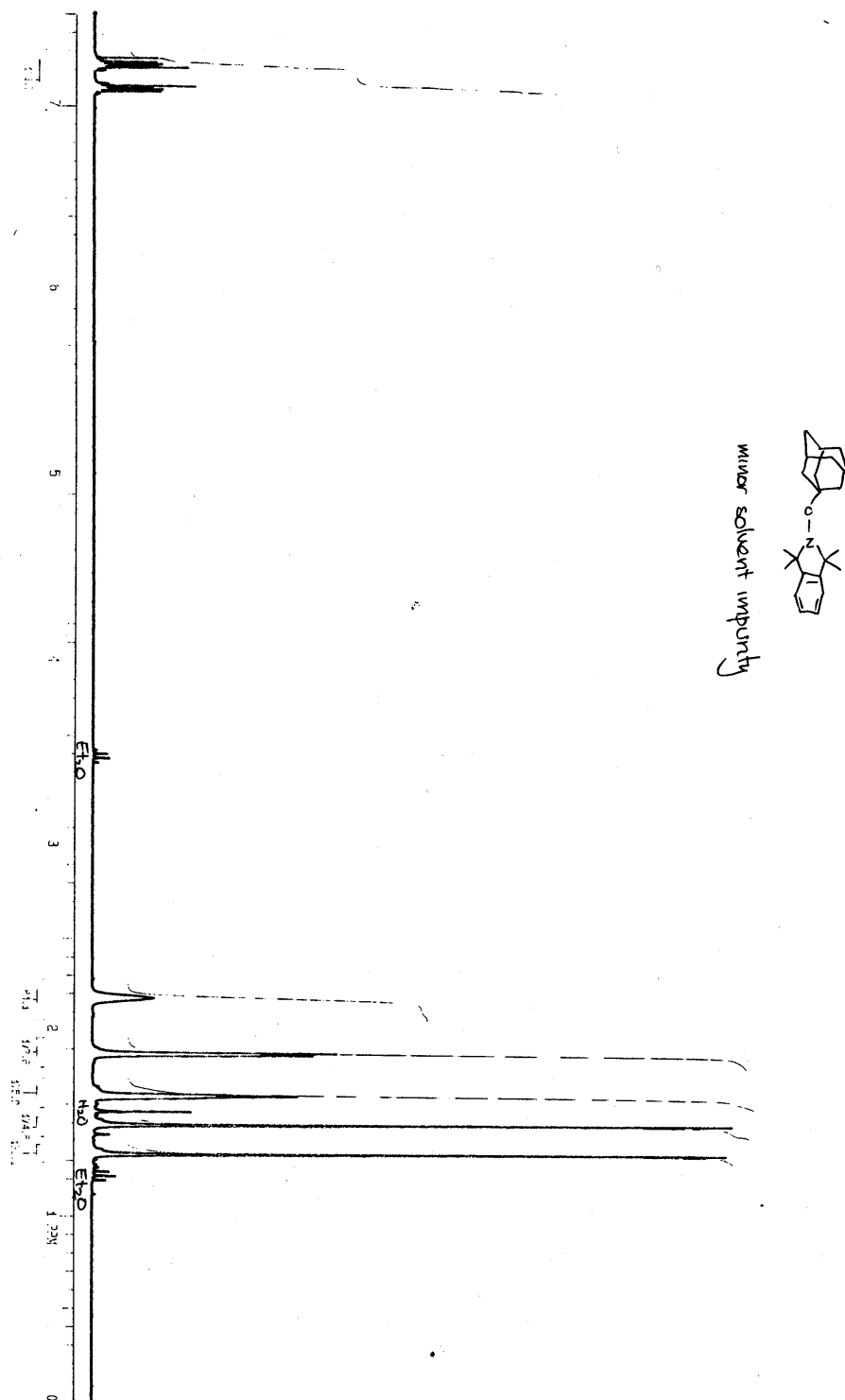


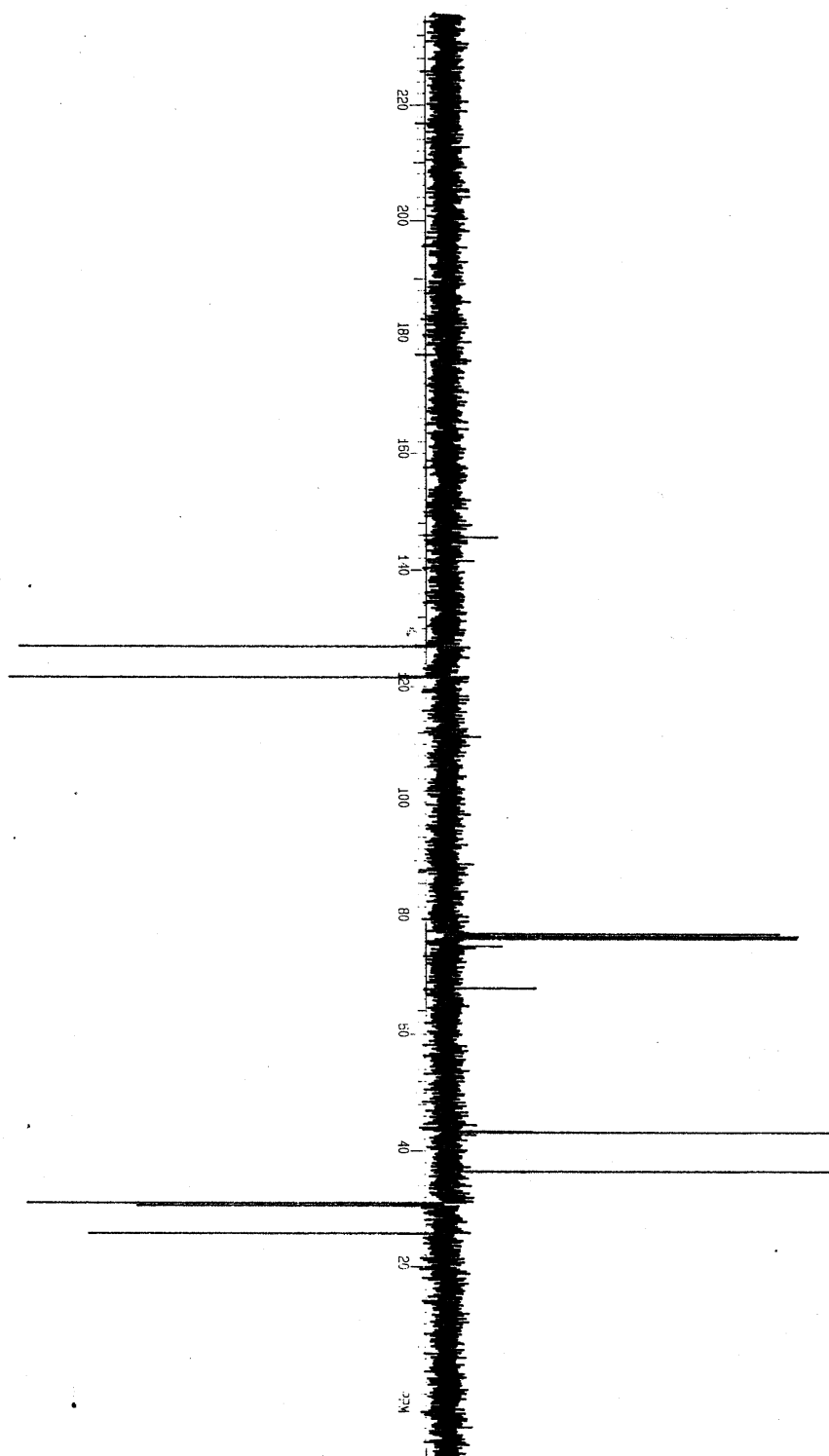
2-(1'-Methoxycarbonyl-3',3'-dimethylpentoxy)-1,1,3,3-tetramethylisoindoline (5e) ^1H NMR



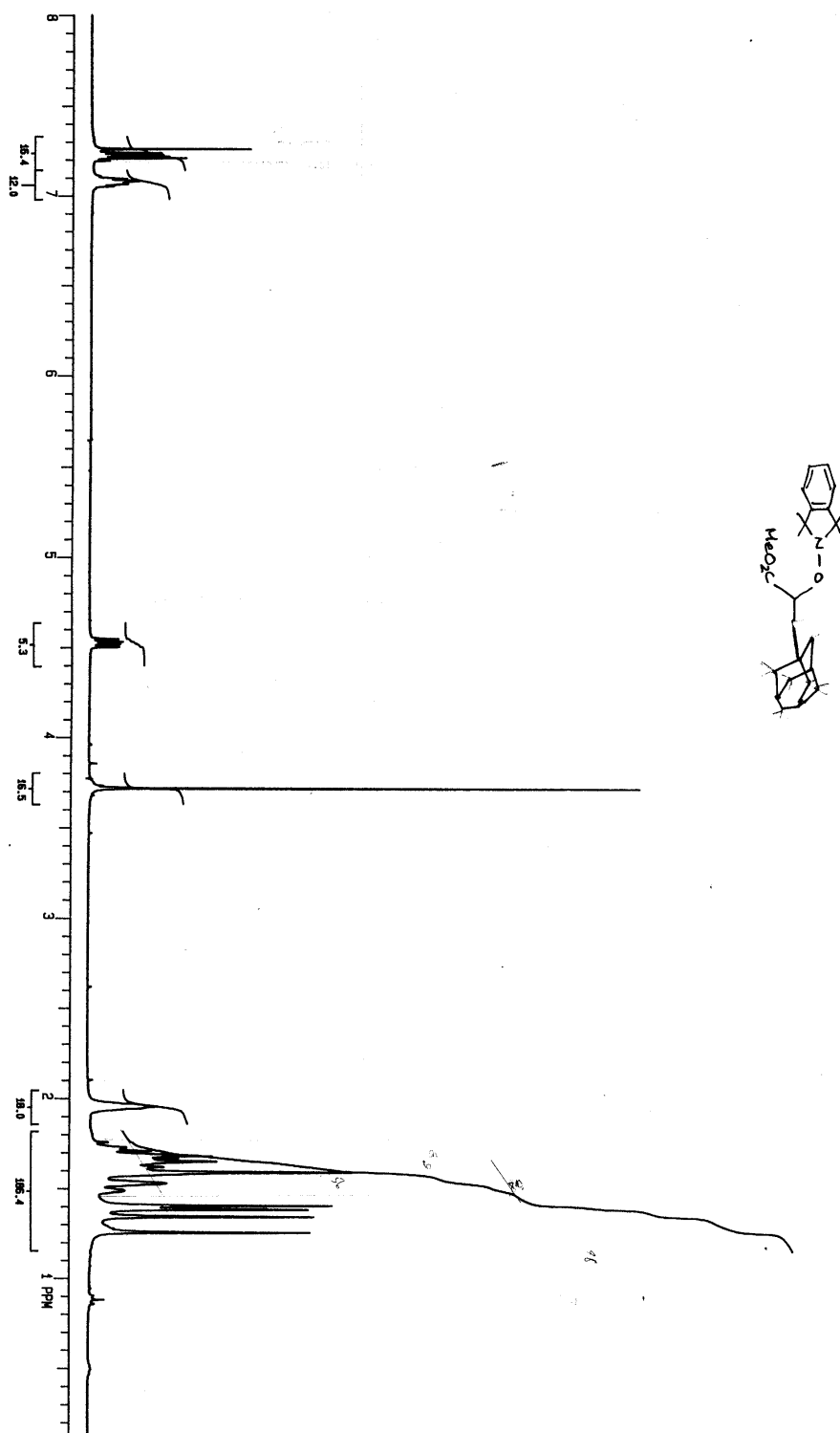
2-(1'-Methoxycarbonyl-3',3'-dimethylpentoxy)-1,1,3,3-tetramethylisoindoline (5e) ^{13}C NMR



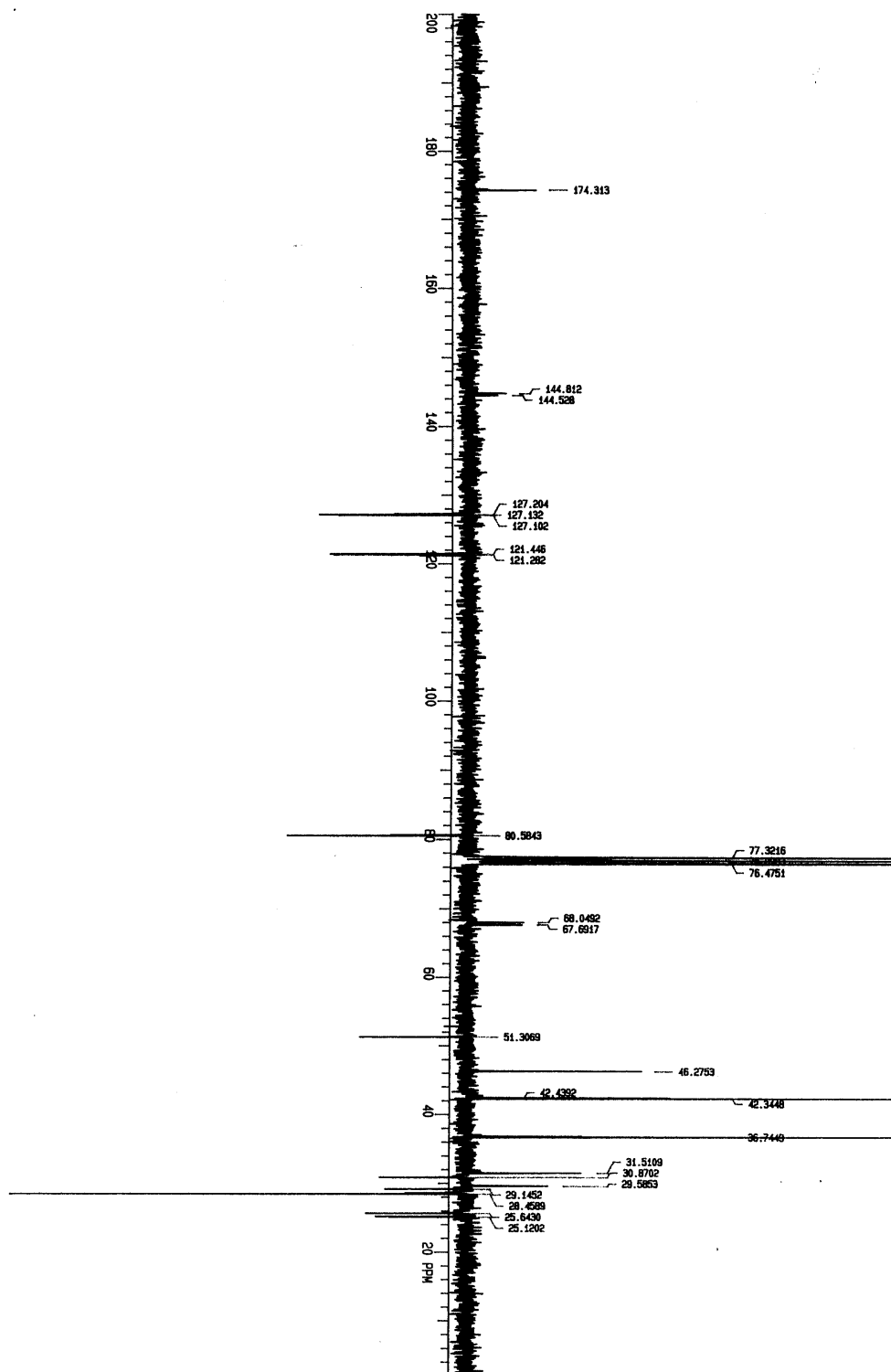
2-(1'-Adamantyl)-1,1,3,3-tetramethylisoindoline (3f) ¹H NMR

2-(1'-Adamantyl)-1,1,3,3-tetramethylisoindoline (3f) ^{13}C NMR

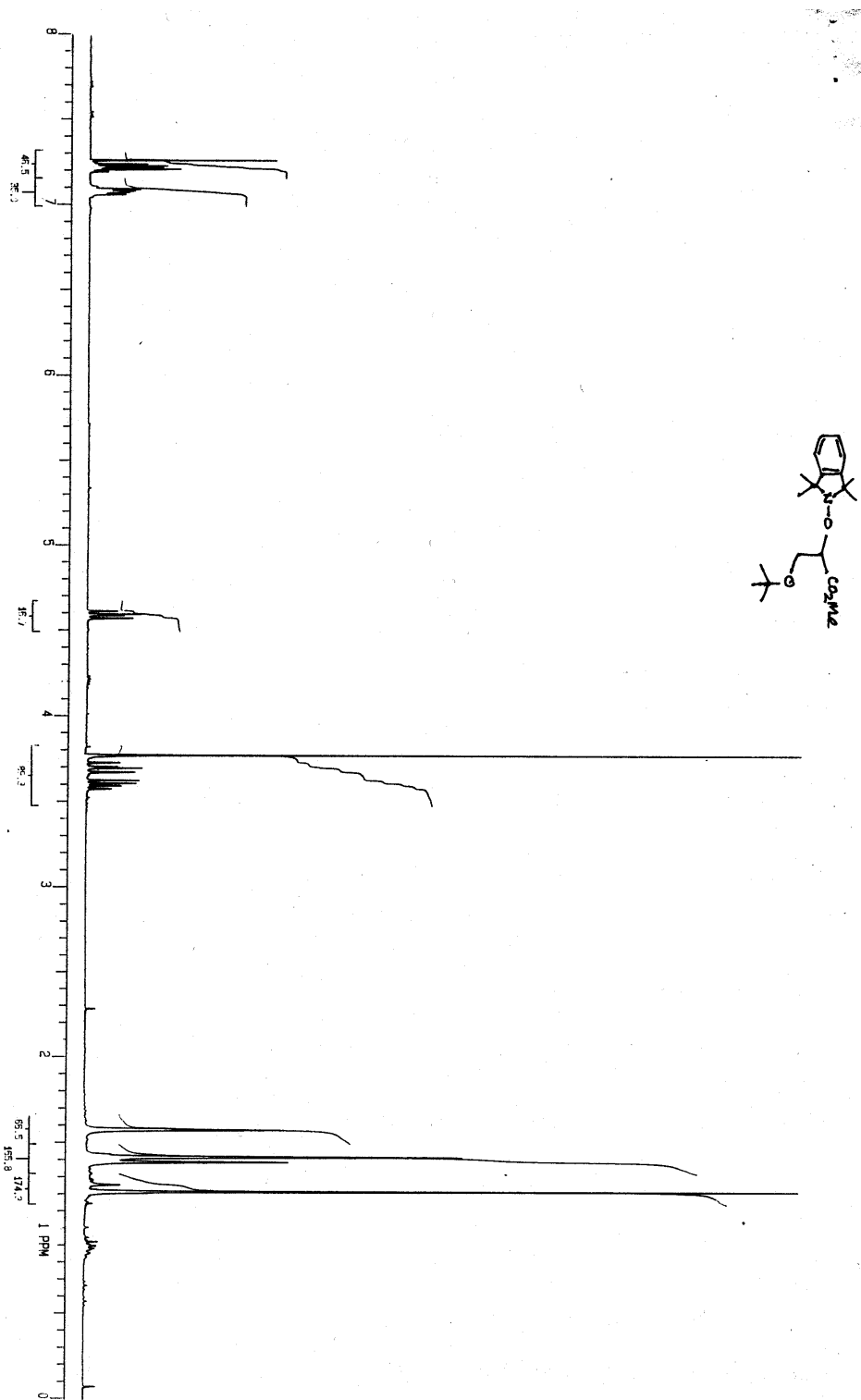
2-[2'-(1''-Adamantyl)-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5f) ^1H NMR



2-[2'-(1''-Adamantyl)-1'-(methoxycarbonyl)ethoxy]-1,1,3,3-tetramethylisoindoline (5f) ^{13}C NMR



2-[4',4'-dimethyl-1'-(methoxycarbonyl)pent-1'-oxy]-1,1,3,3-tetramethylisoindoline (5g) ^1H NMR



2-[4',4'-dimethyl-1'-(methoxycarbonyl)pent-1'-oxy]-1,1,3,3-tetramethylisoindoline (5g) ^{13}C NMR

