

Supplementary Information for

Alternative formation of amides and β -enaminones from aroyl chlorides using the TiCl_4 -trialkylamine reagent system

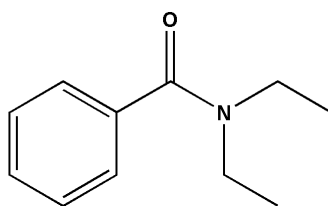
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Dipartimento di Farmacia e Scienze della Salute e della Nutrizione, Università della Calabria, Edificio Polifunzionale,
I-87036 Arcavacata di Rende - Italy

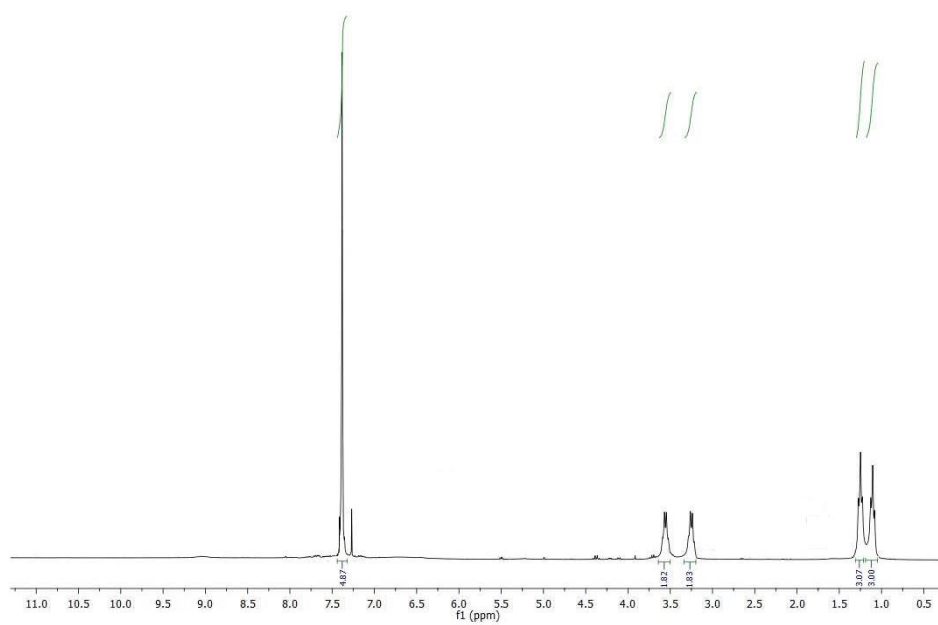
Content:

1. ^1H NMR, ^{13}C NMR and MS (EI) spectra of compounds **2a-8d** S1- S32

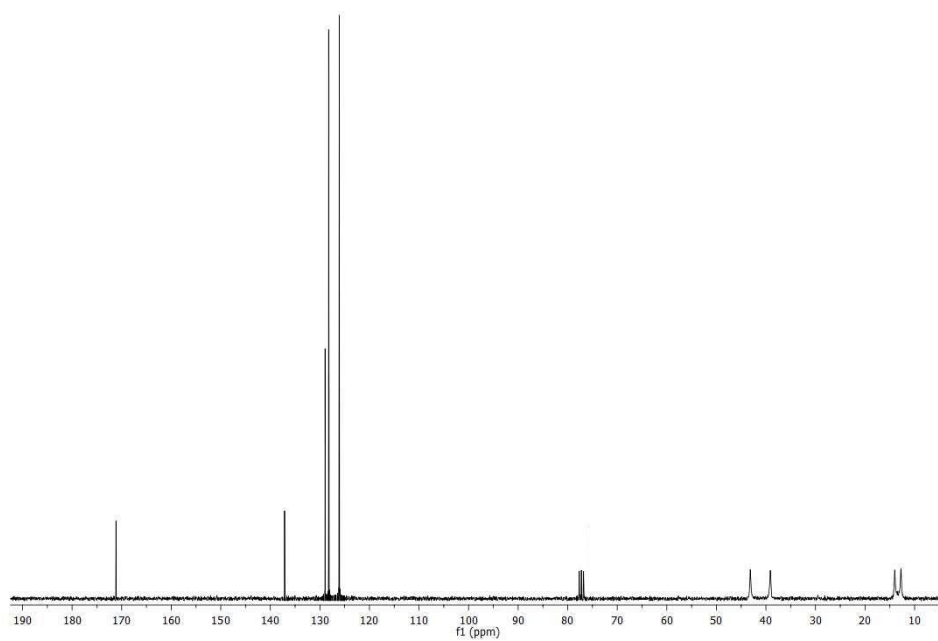
***N,N*-DIETHYLBENZAMIDE (2a)**



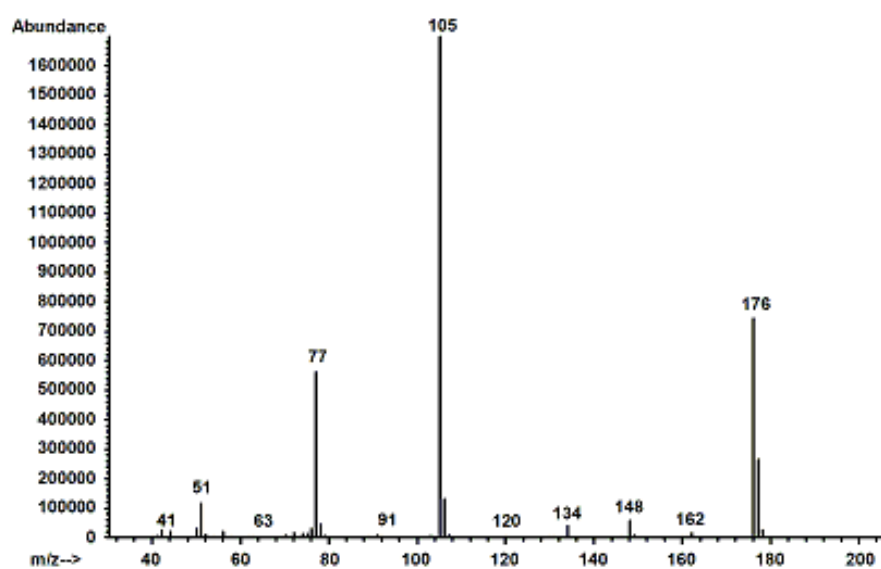
^1H NMR



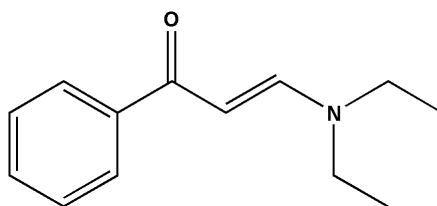
^{13}C NMR



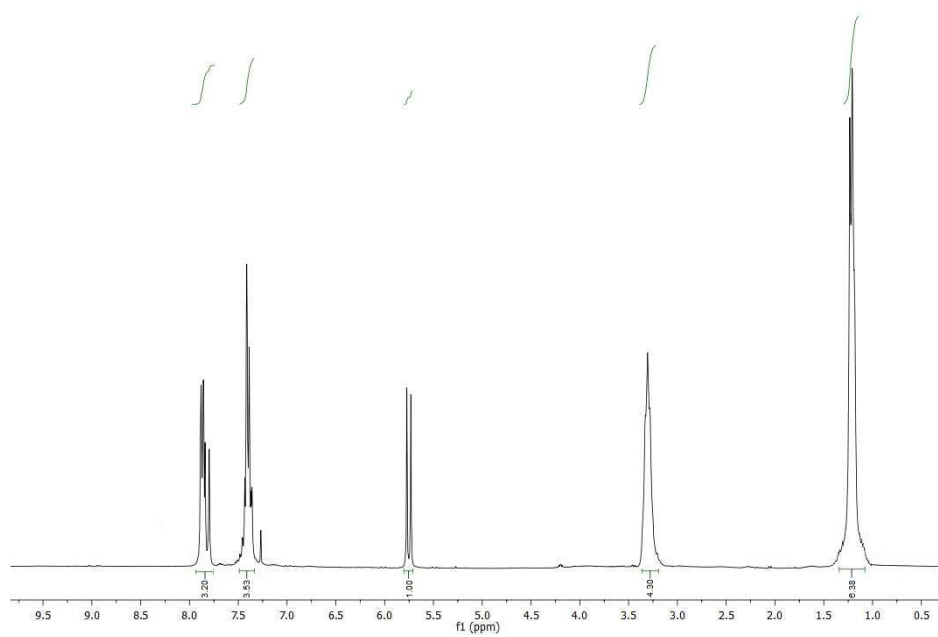
MS (EI)



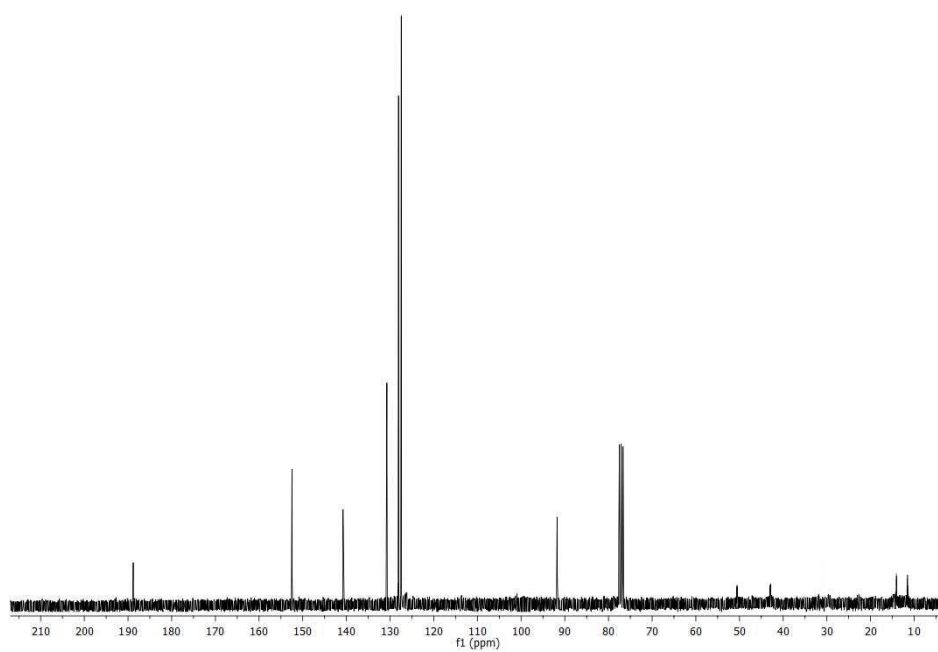
(E)-3-(DIETHYLAMINO)-1-PHENYLPROP-2-EN-1-ONE (3a)



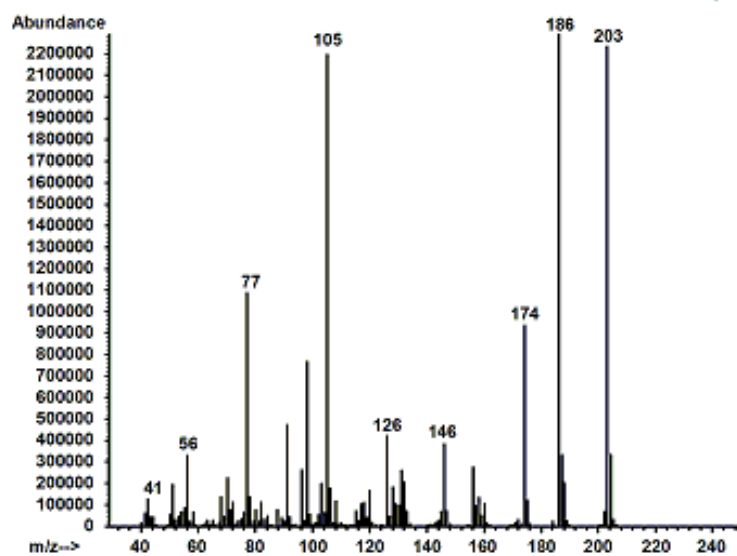
^1H NMR



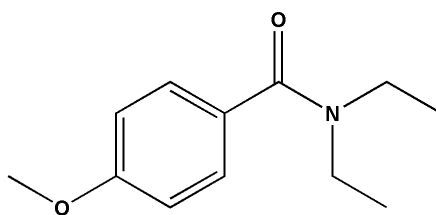
^{13}C NMR



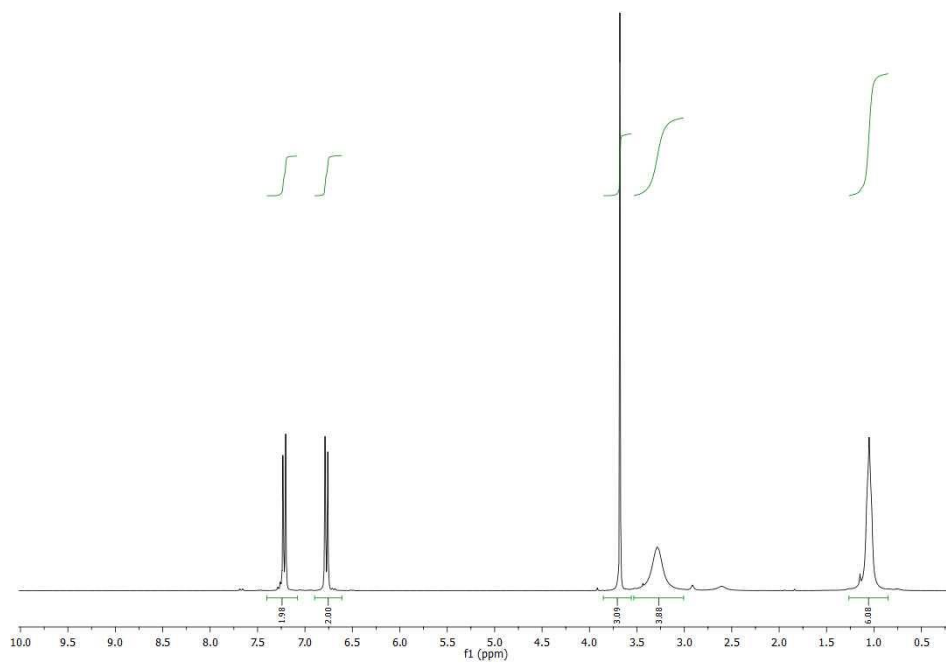
MS (EI)



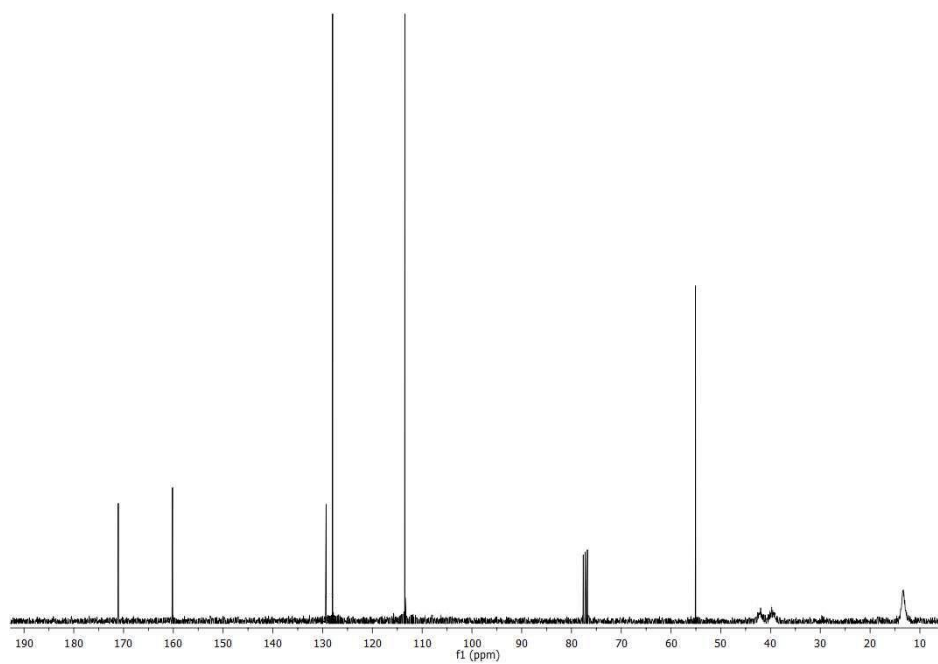
***N,N*-DIETHYL-4-METHOXYBENZAMIDE (2b)**



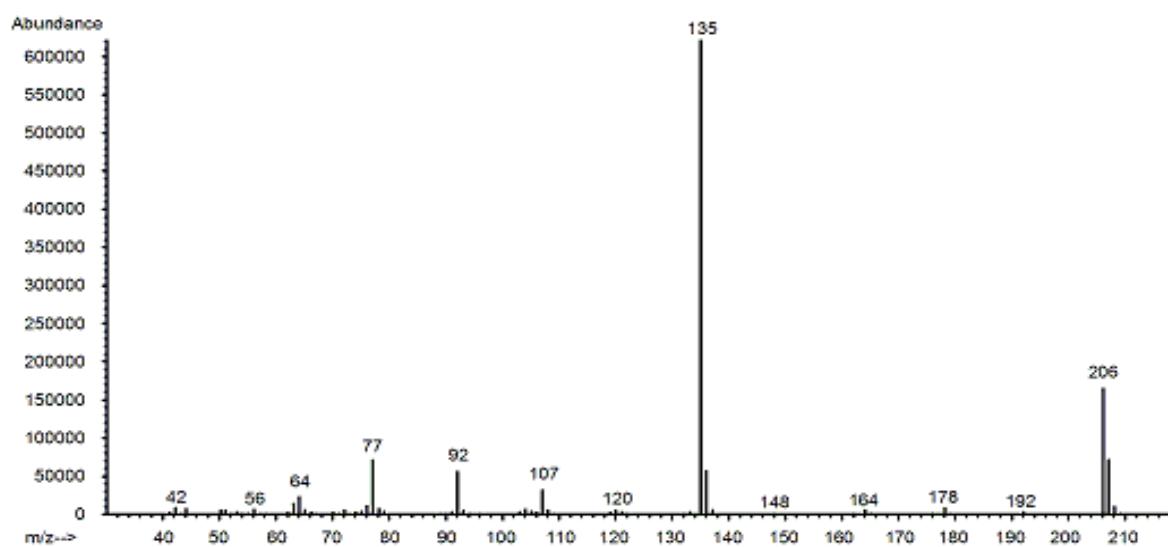
^1H NMR



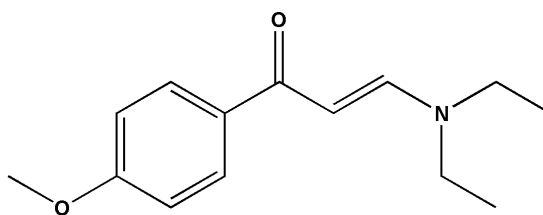
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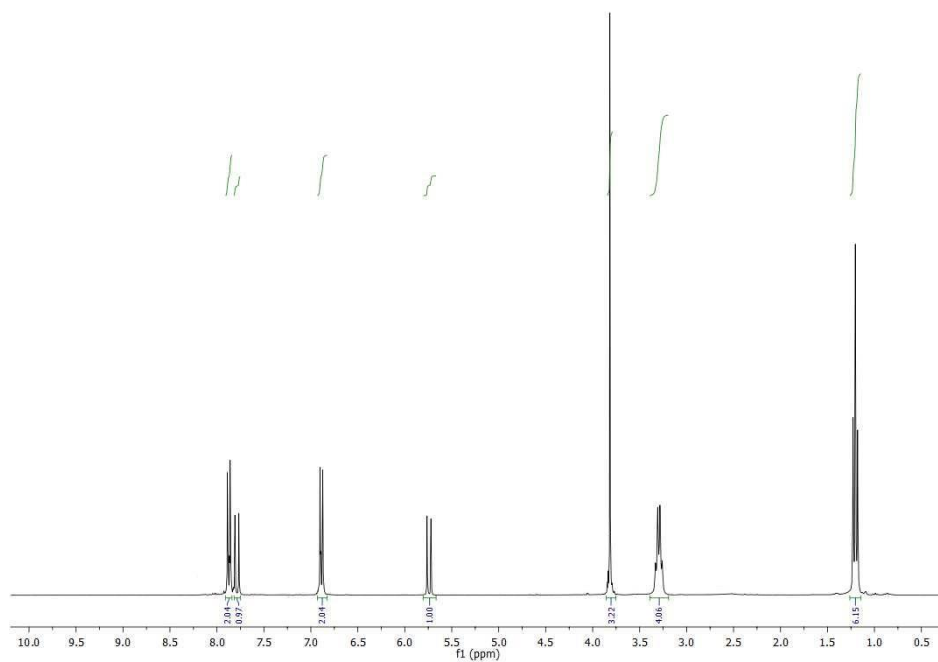
MS (EI)



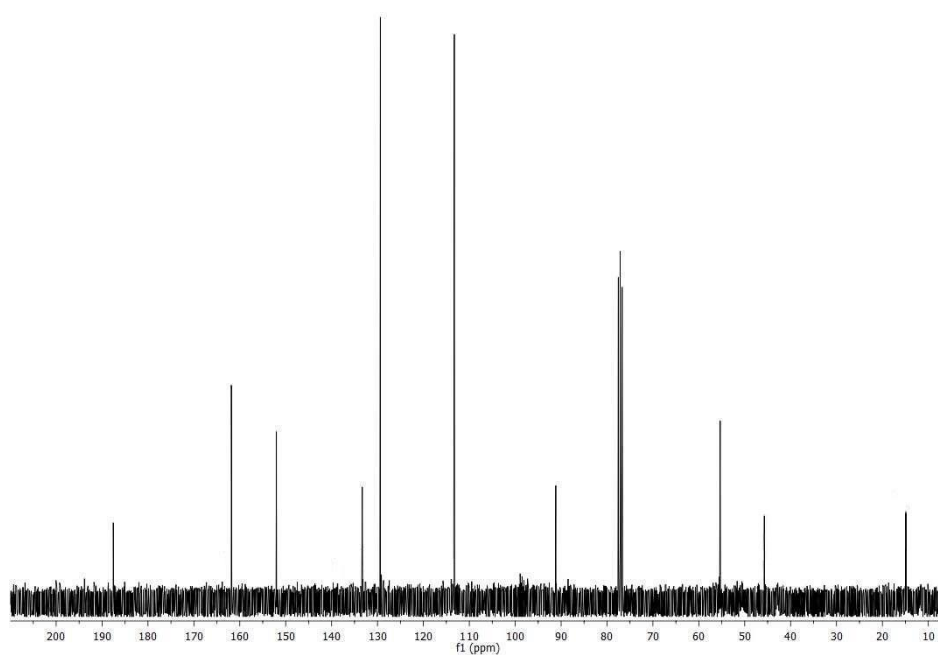
(E)-3-(DIETHYLAMINO)-1-(4-METHOXYPHENYL)PROP-2-EN-1-ONE (3b)



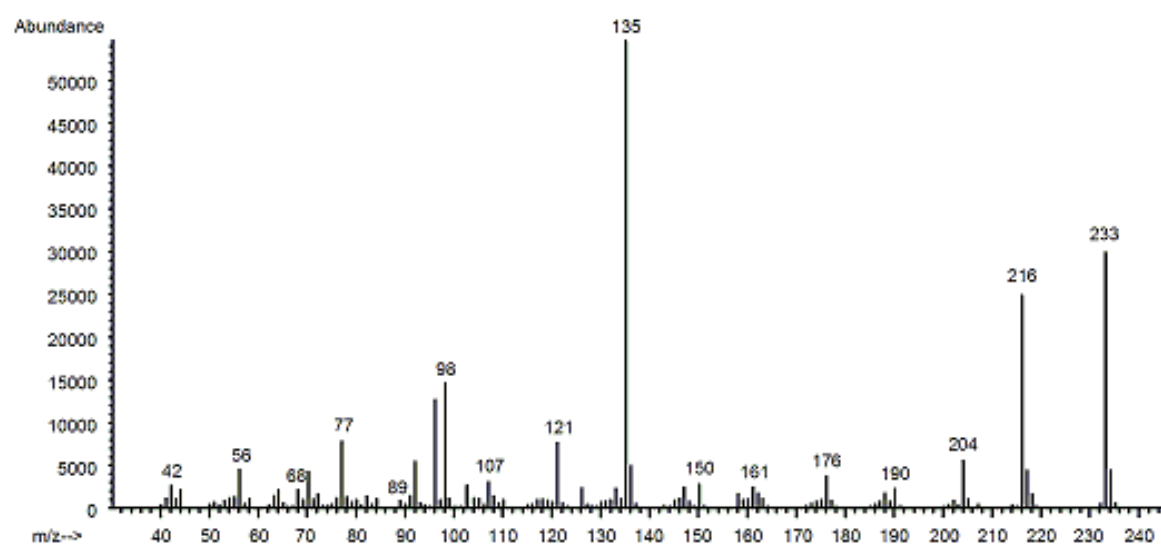
^1H NMR



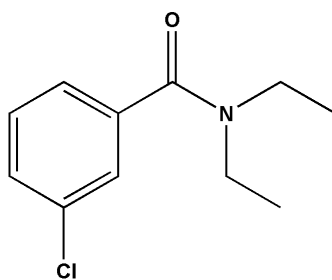
^{13}C NMR



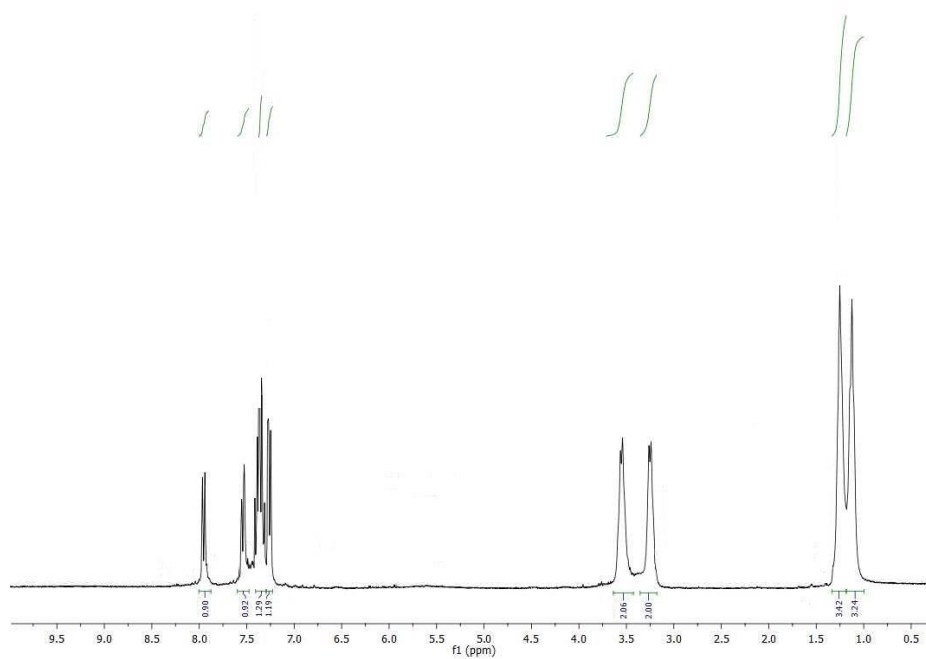
MS (EI)



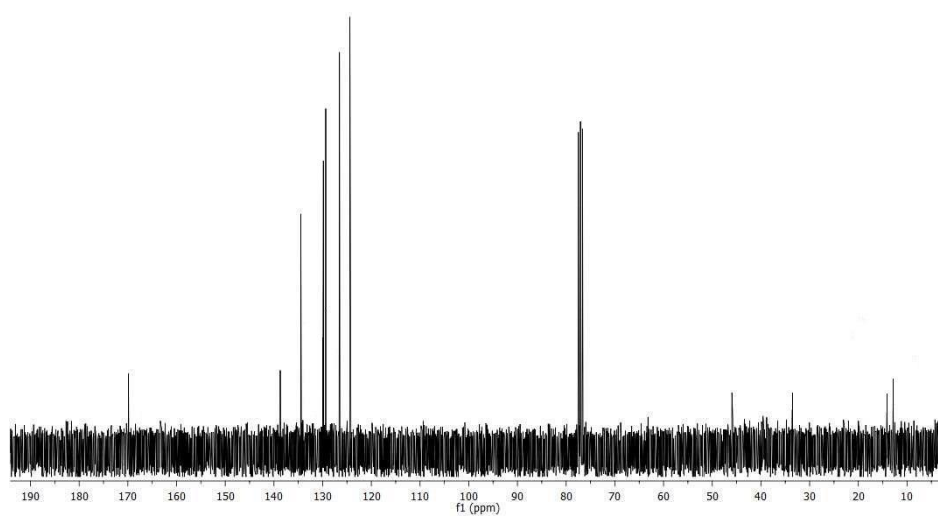
3-CHLORO-*N,N*-DIETHYLBENZAMIDE (2c)



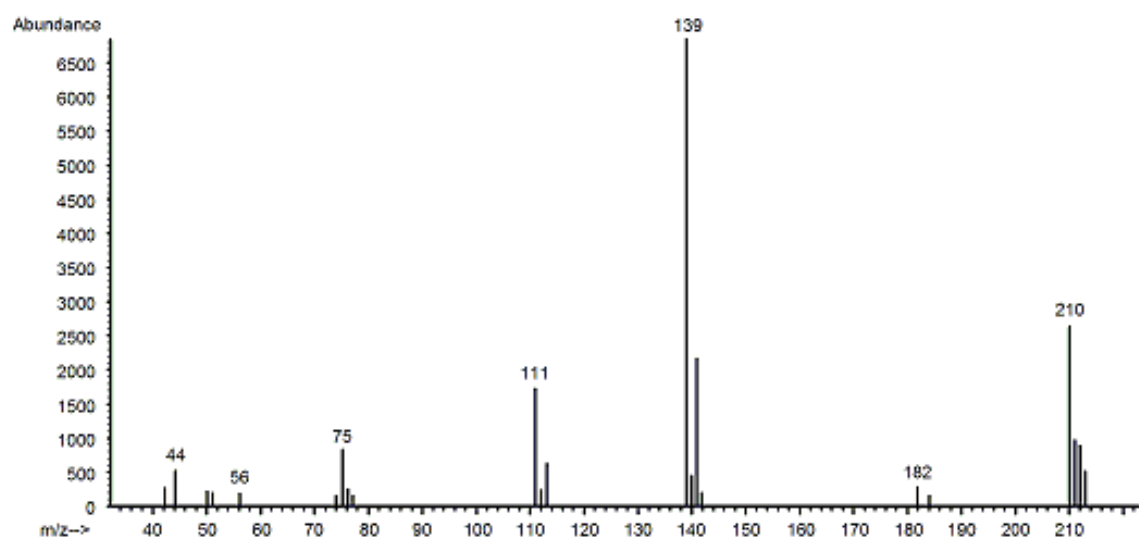
^1H NMR



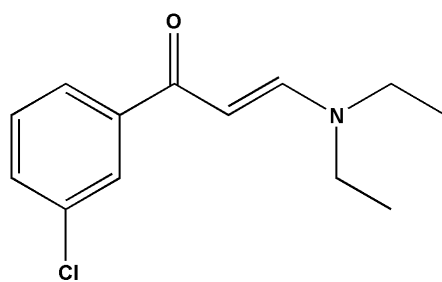
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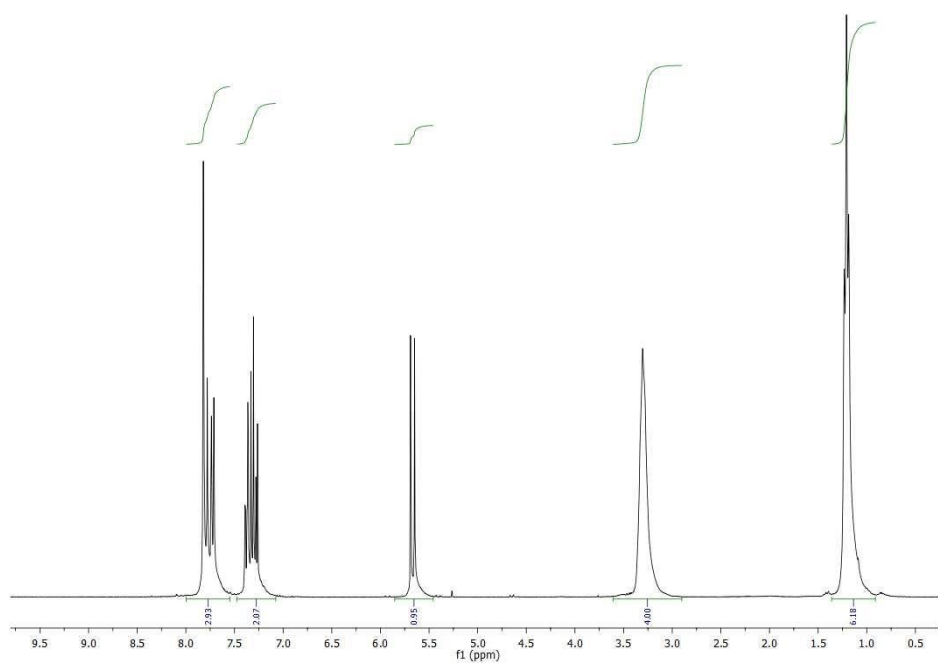
MS (EI)



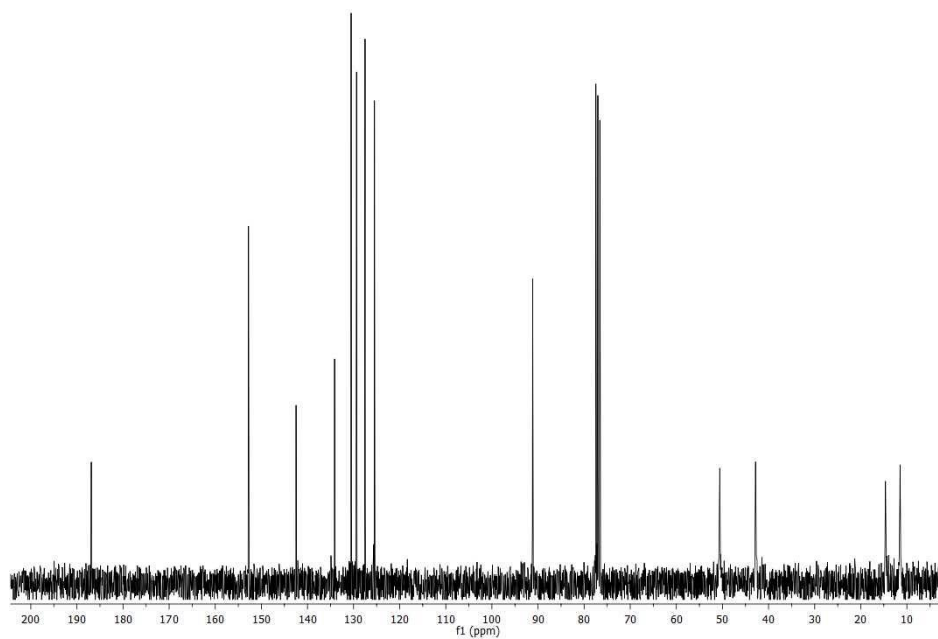
(E)-1-(3-CHLOROPHENYL)-3-(DIETHYLAMINO)PROP-2-EN-1-ONE (3c)



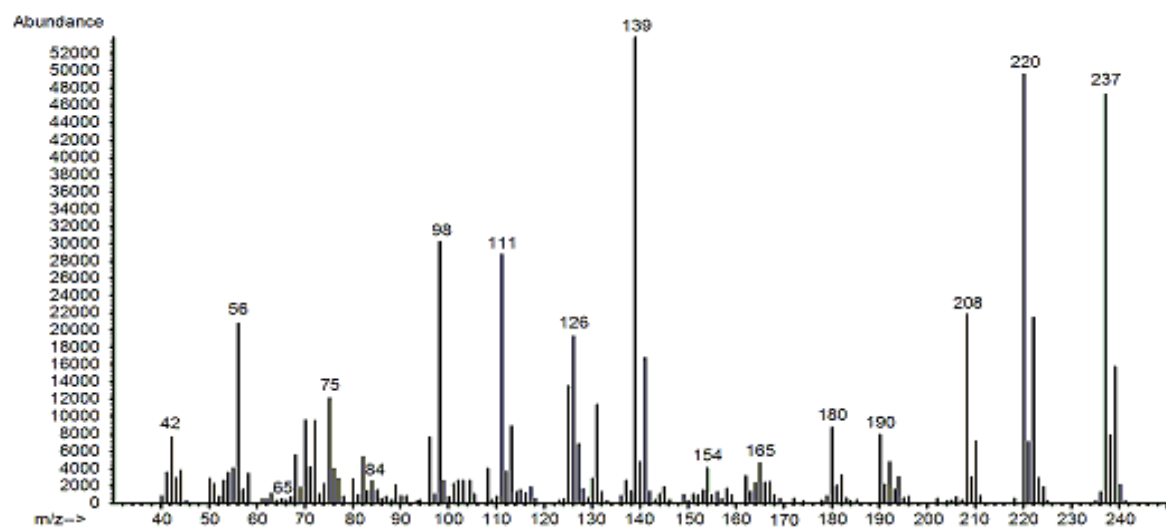
^1H NMR



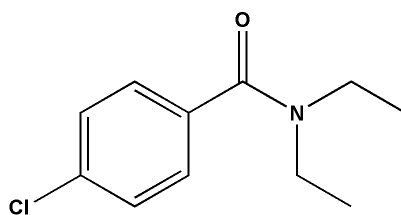
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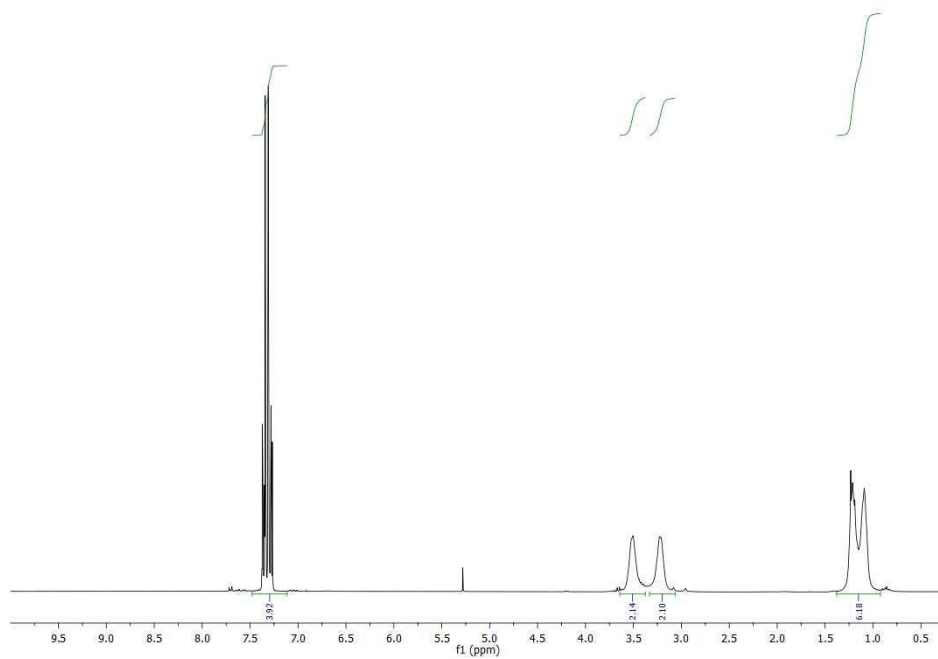
MS (EI)



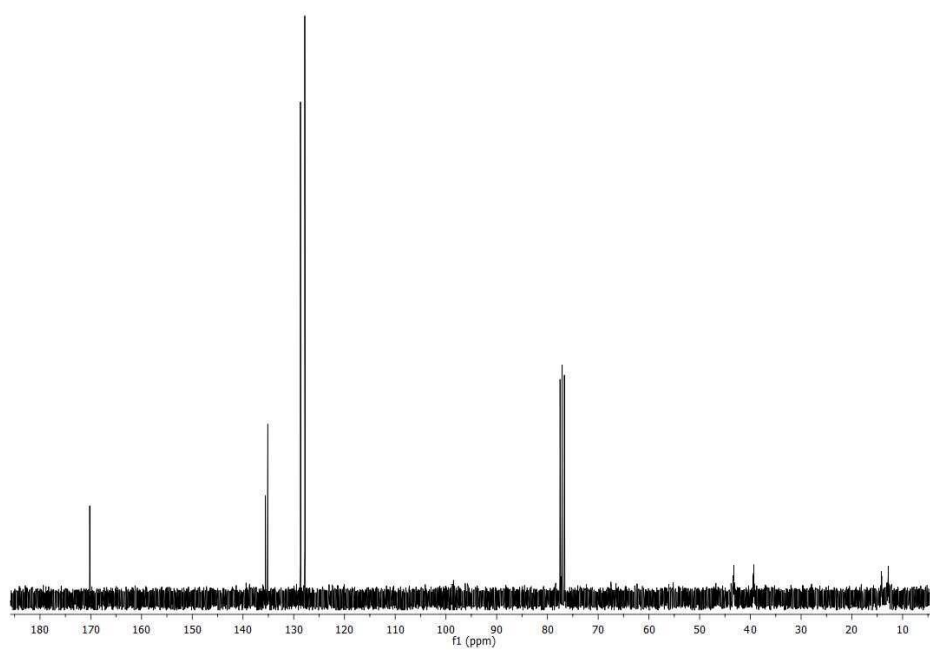
4-CHLORO-*N,N*-DIETHYLBENZAMIDE (2d)



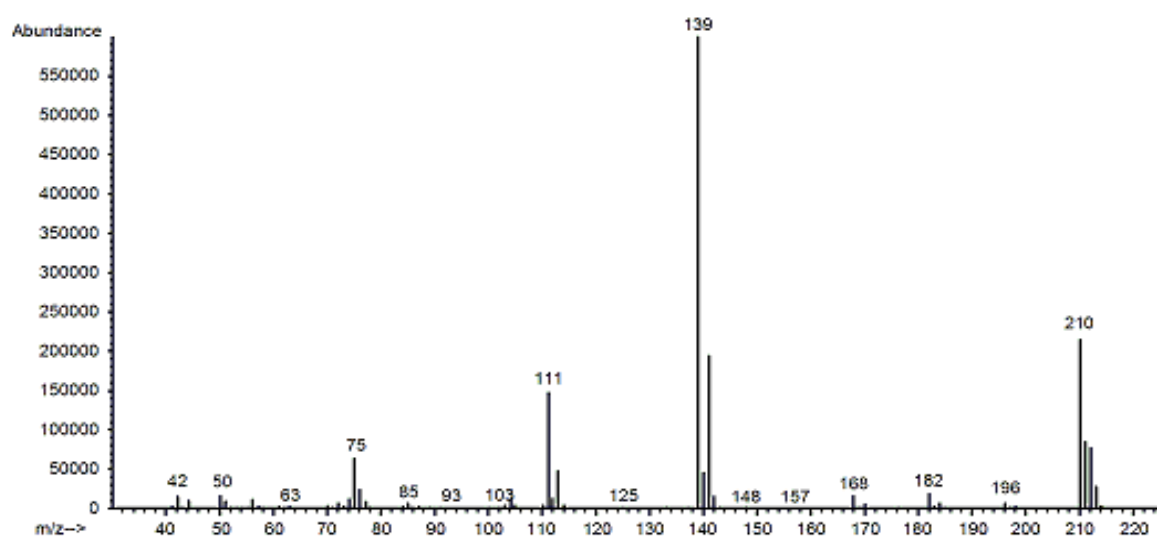
^1H NMR



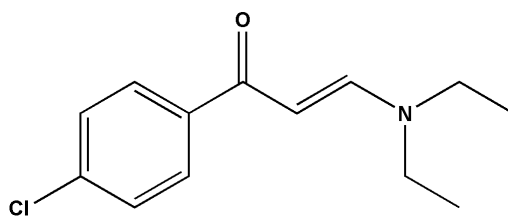
^{13}C NMR



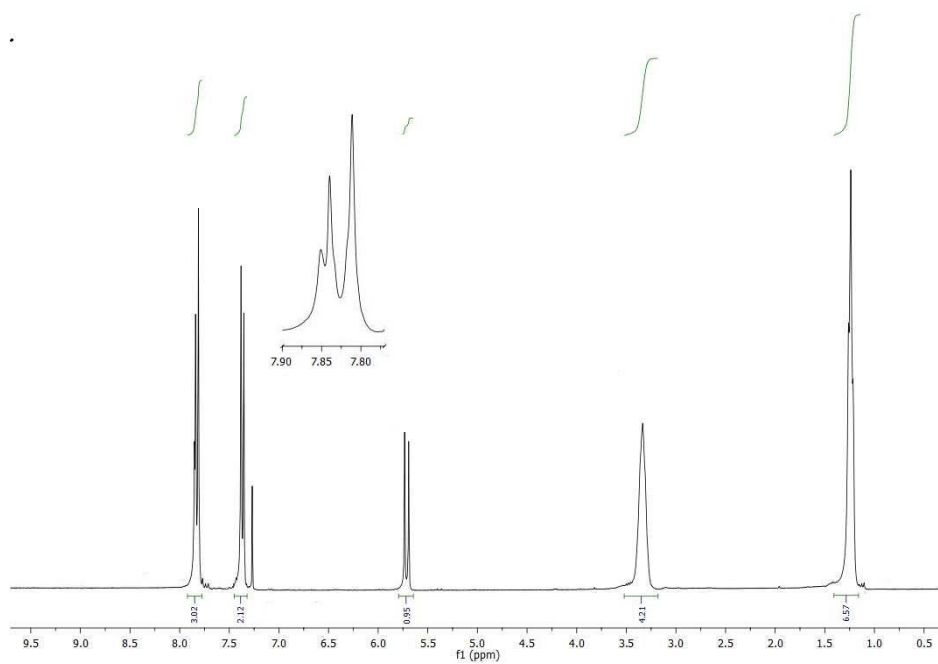
MS (EI)



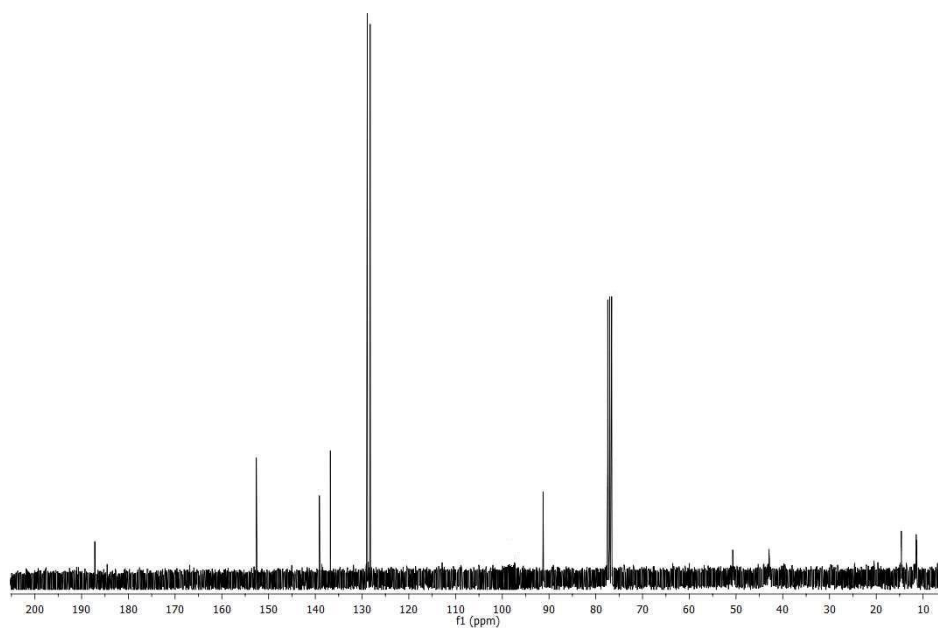
1-(4-CHLOROPHENYL)-3-(DIETHYLAMINO)PROP-2-EN-1-ONE (3d)



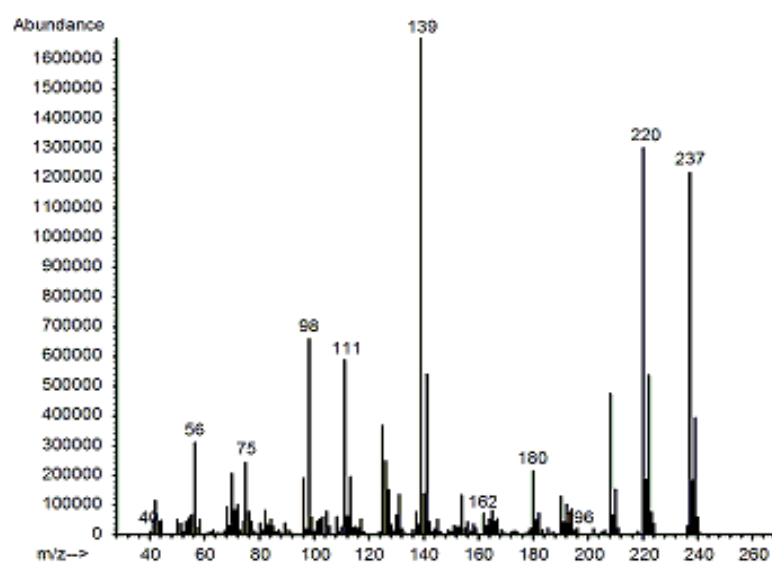
^1H NMR



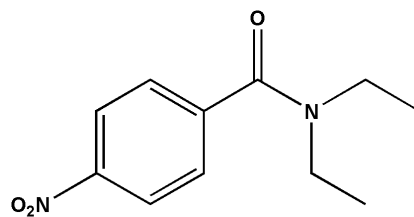
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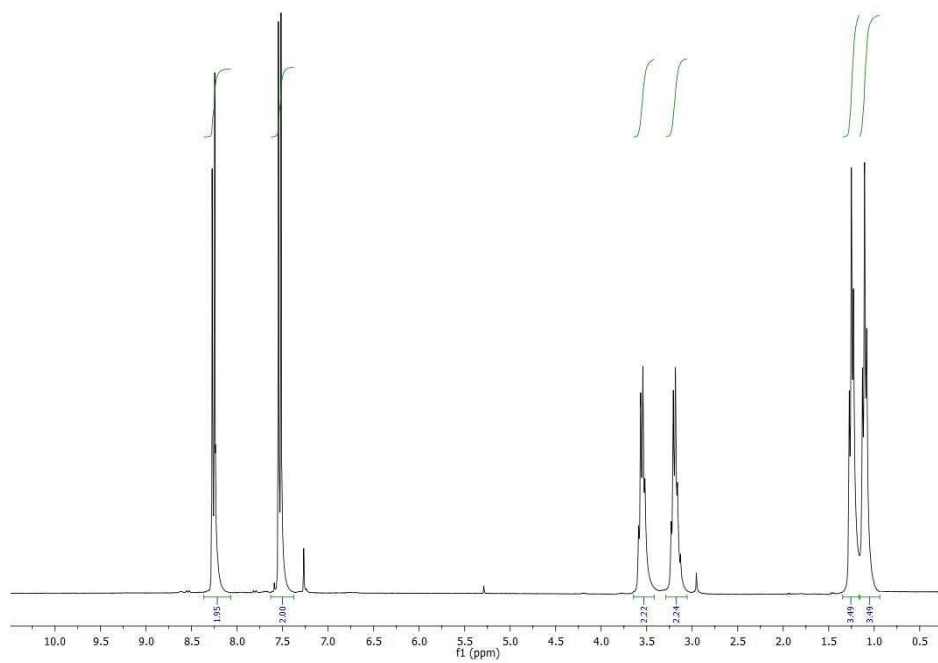
MS (EI)



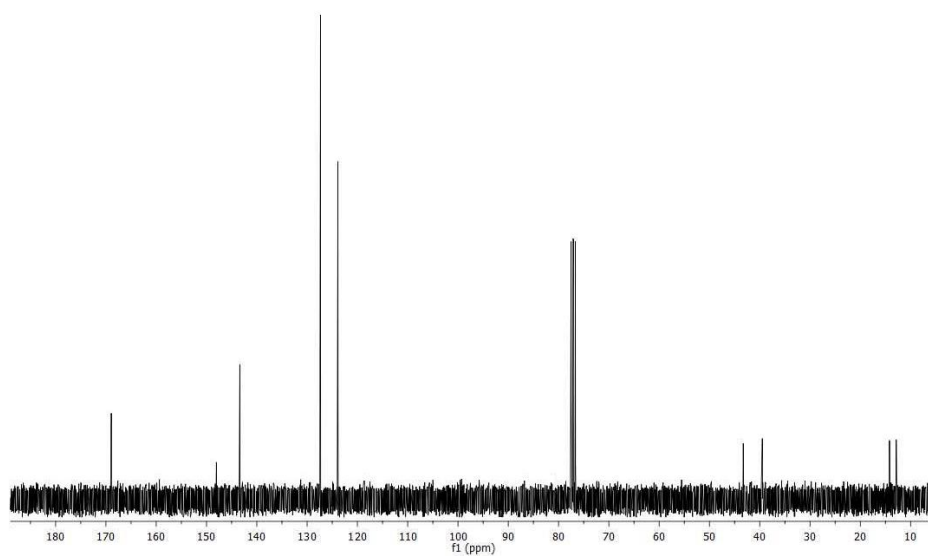
***N,N*-DIETHYL-4-NITROBENZAMIDE (2e)**



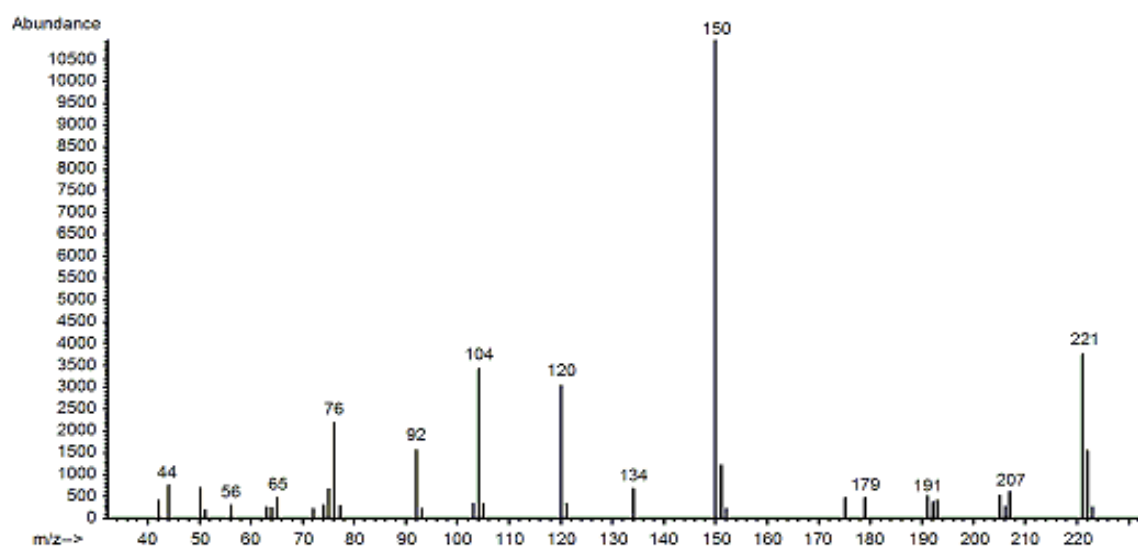
^1H NMR



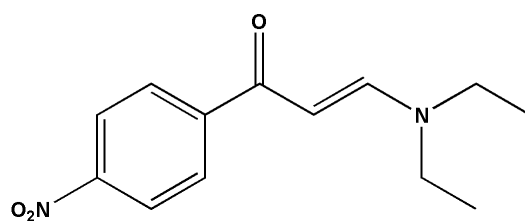
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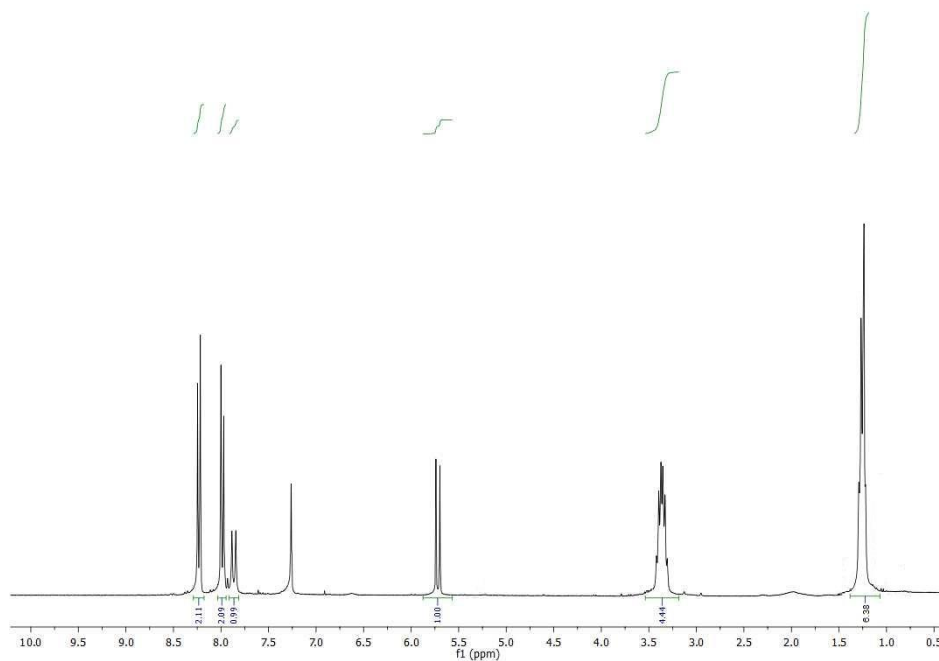
MS (EI)



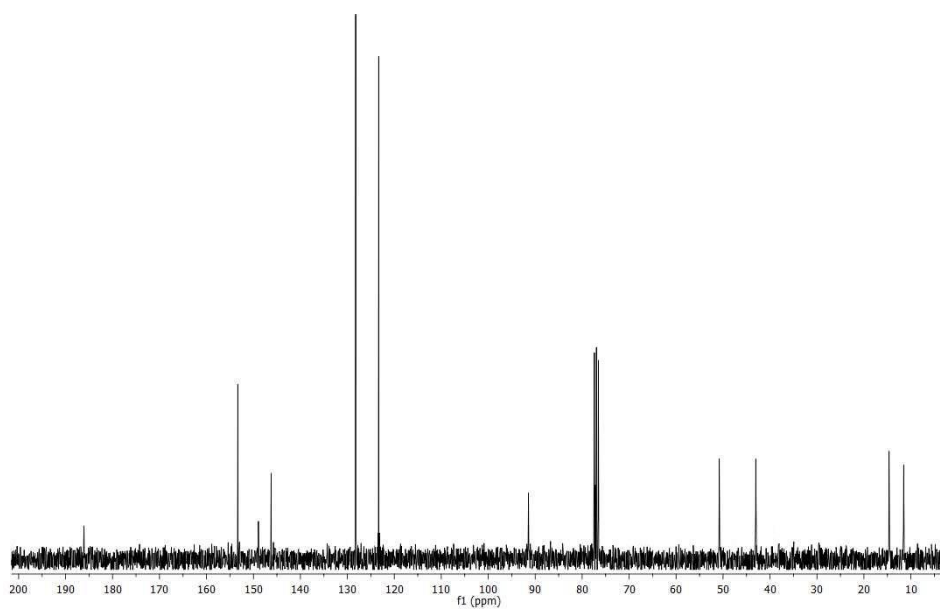
3-(DIETHYLAMINO)-1-(4-NITROPHENYL)PROP-2-EN-1-ONE (3e)



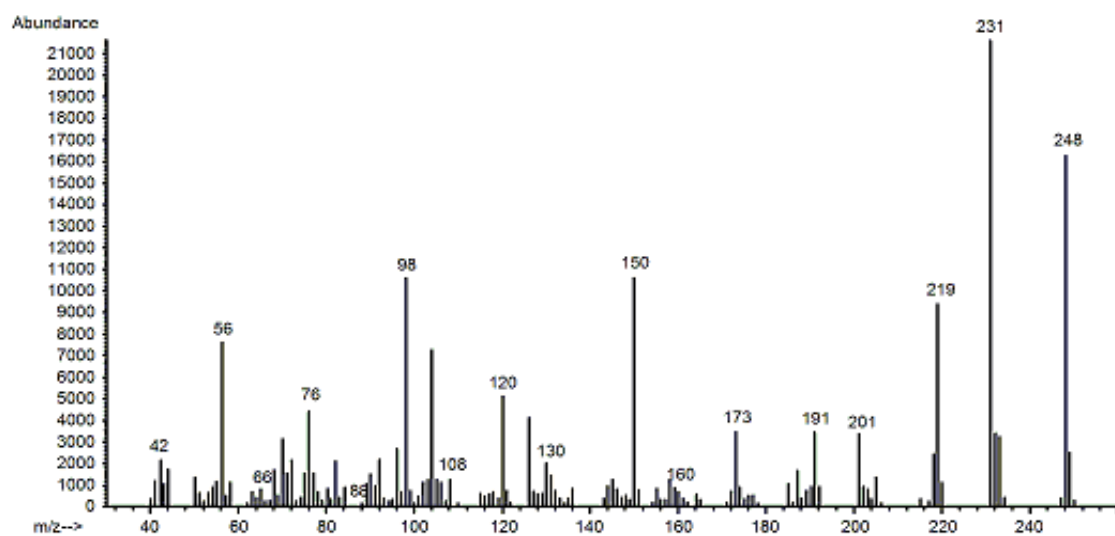
¹H NMR



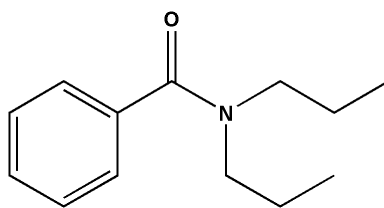
¹³C NMR



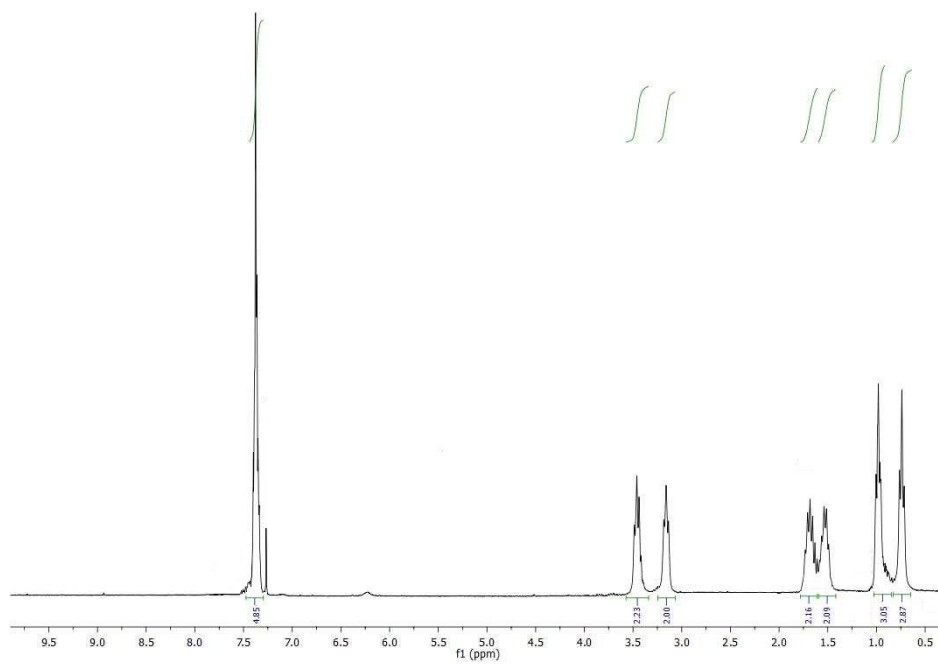
MS (EI)



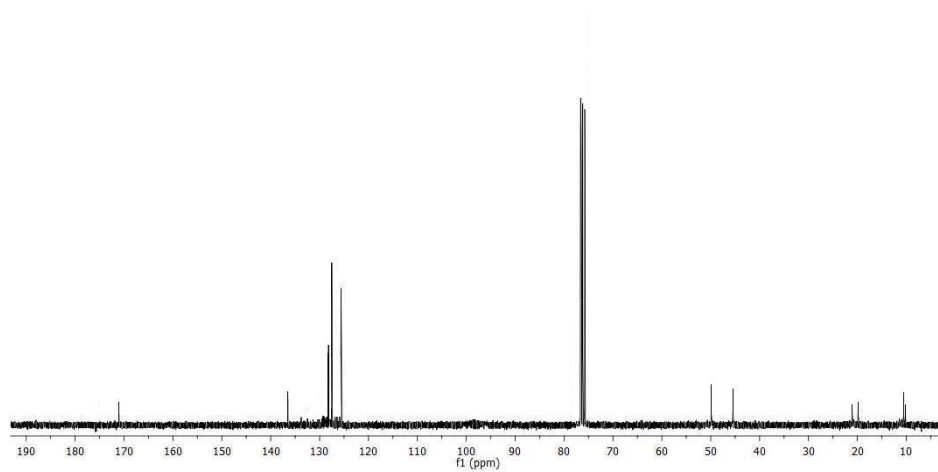
***N,N*-DIPROPYLBENZAMIDE (4a)**



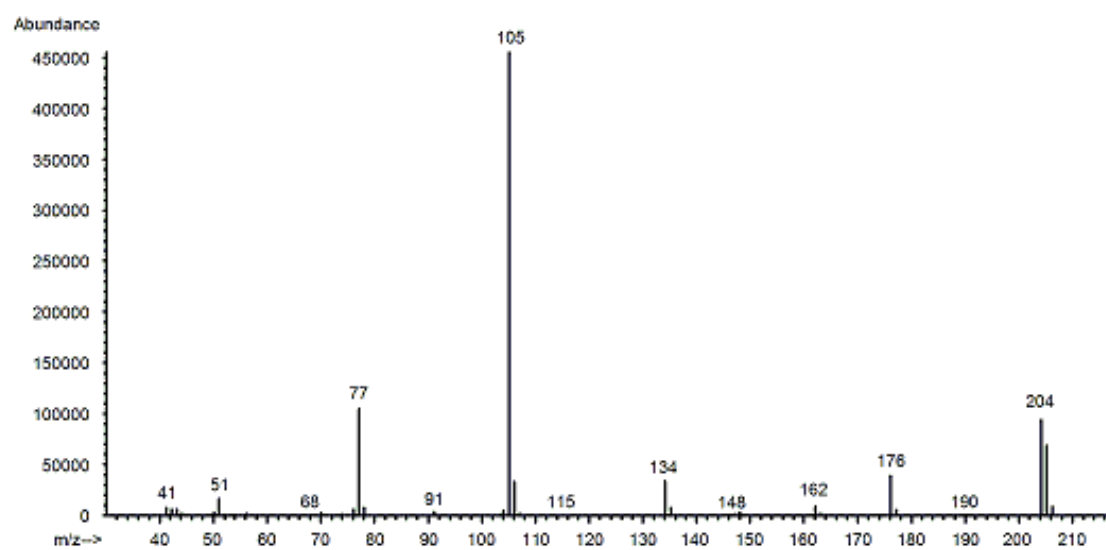
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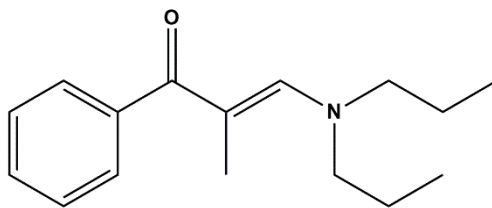
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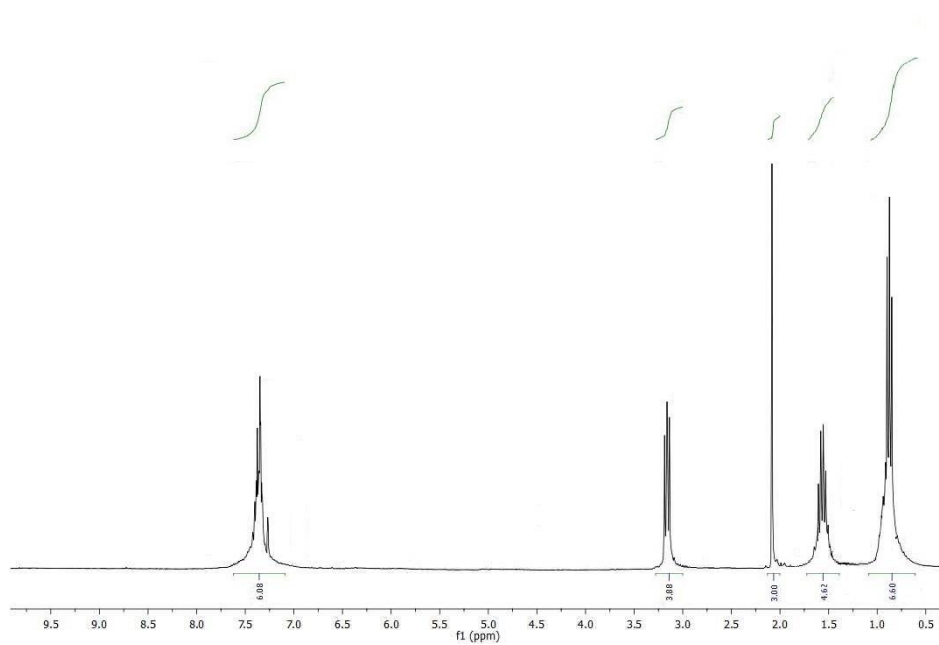
MS (EI)



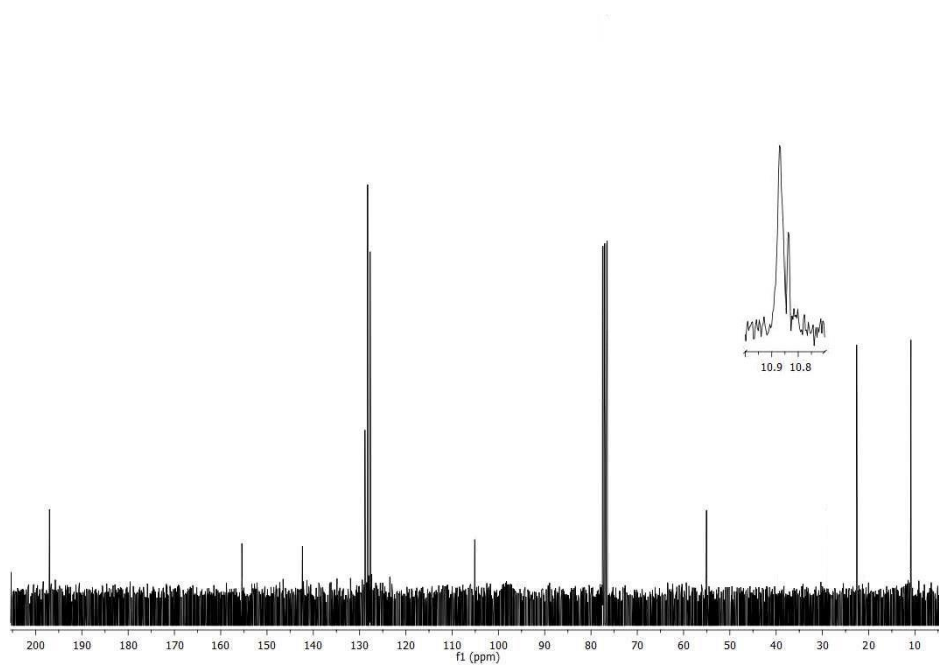
3-(DIPROPYLAMINO)-2-METHYL-1-PHENYLPROP-2-EN-1-ONE (5a)



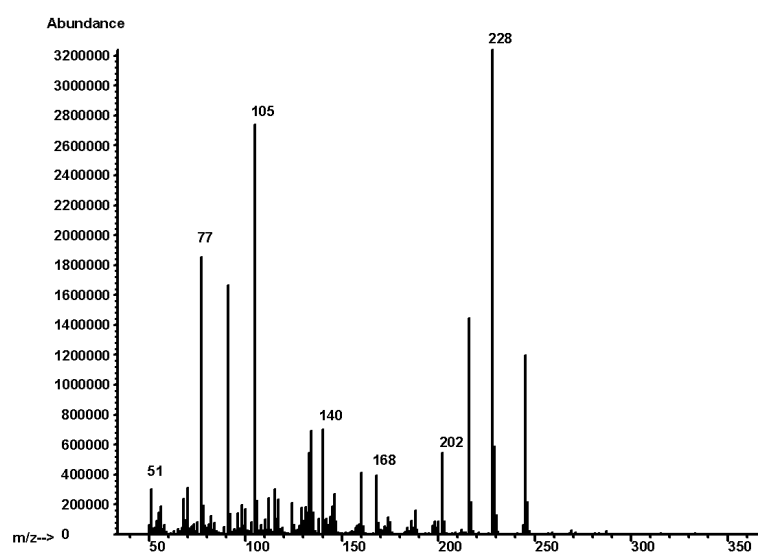
^1H NMR



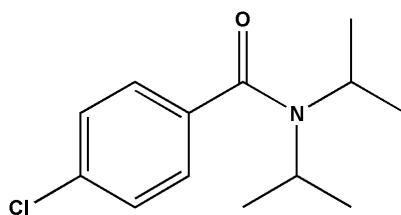
^{13}C NMR



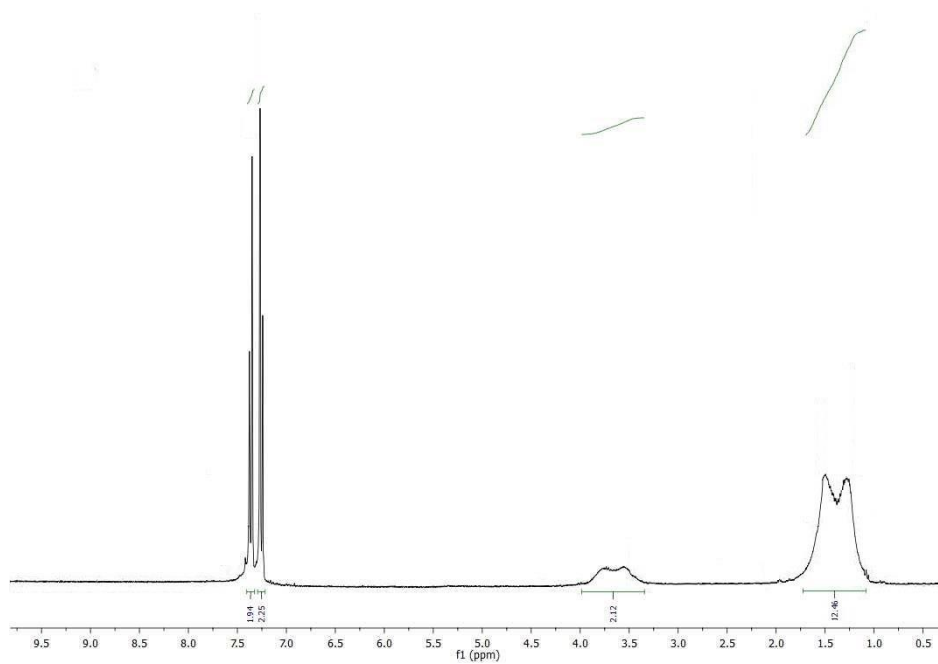
MS (EI)



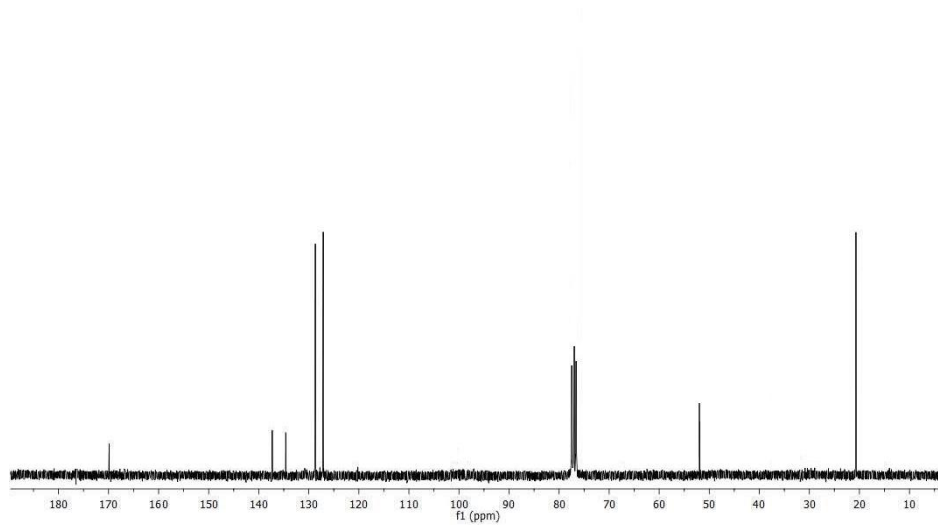
4-CHLORO-*N,N*-DIISOPROPYLBENZAMIDE (6d)



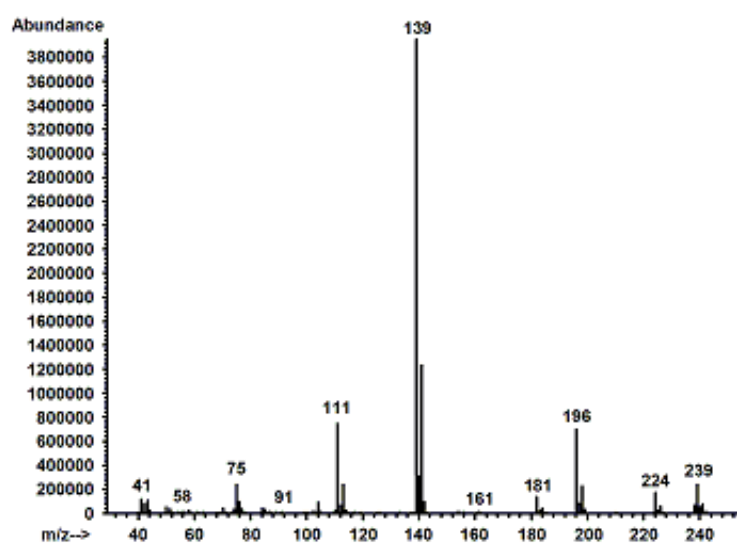
^1H NMR



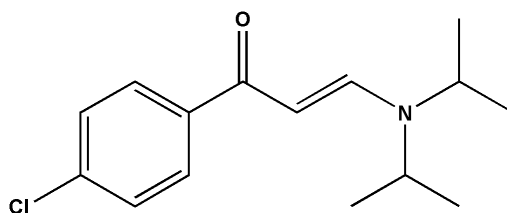
^{13}C NMR



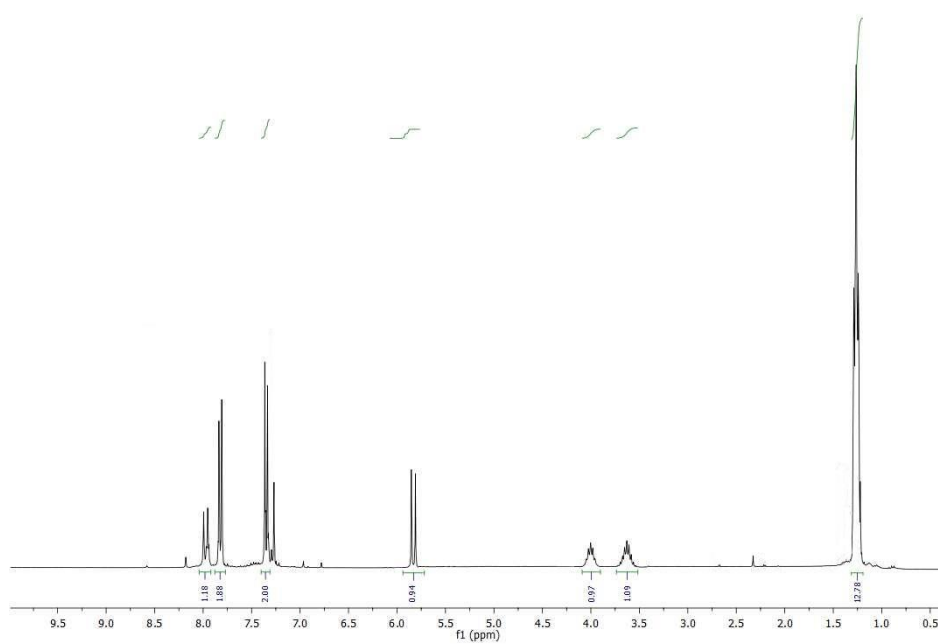
MS (EI)



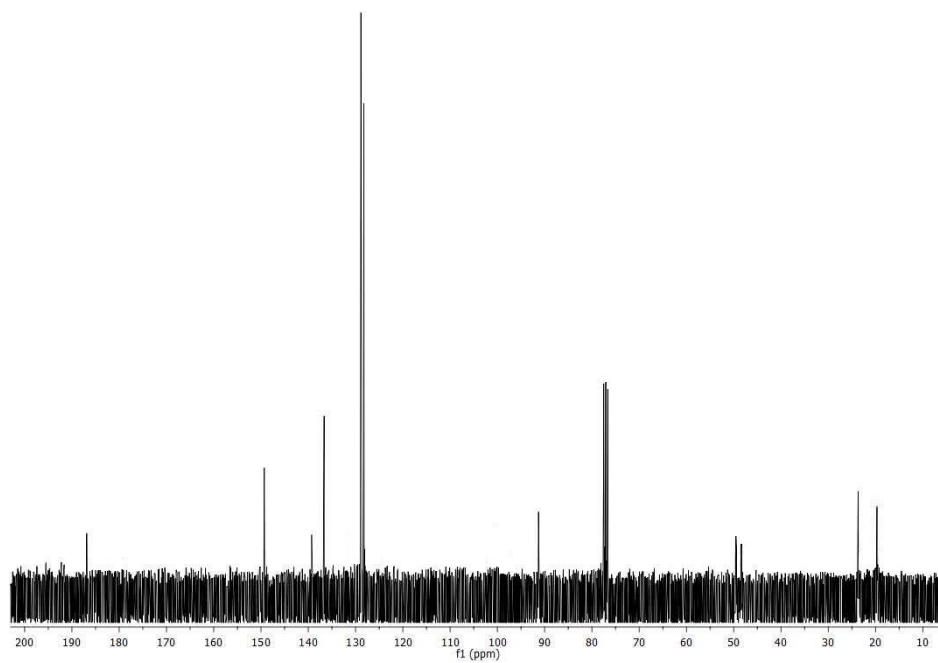
1-(4-CHLOROPHENYL)-3-(DIISOPROPYLAMINO)PROP-2-EN-1-ONE (7d)



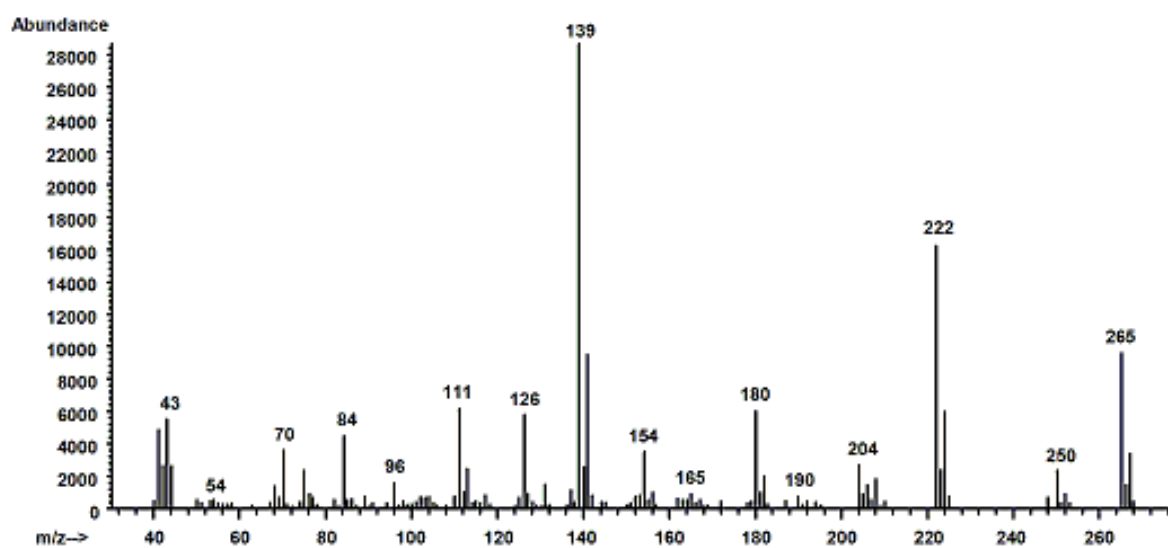
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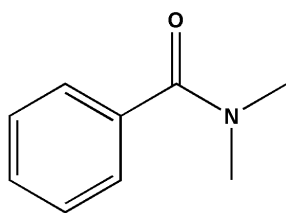
^{13}C NMR



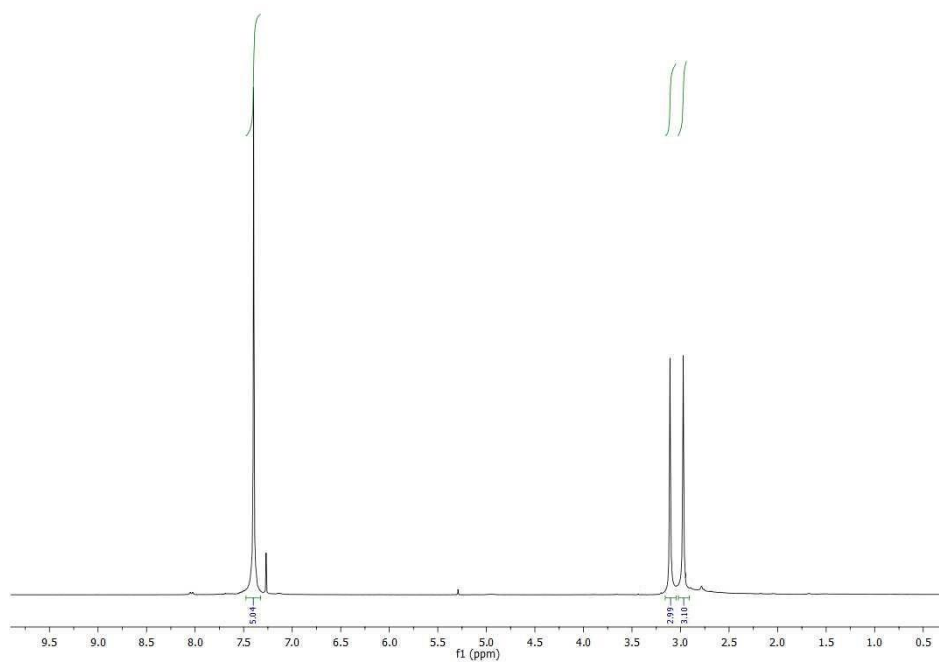
MS (EI)



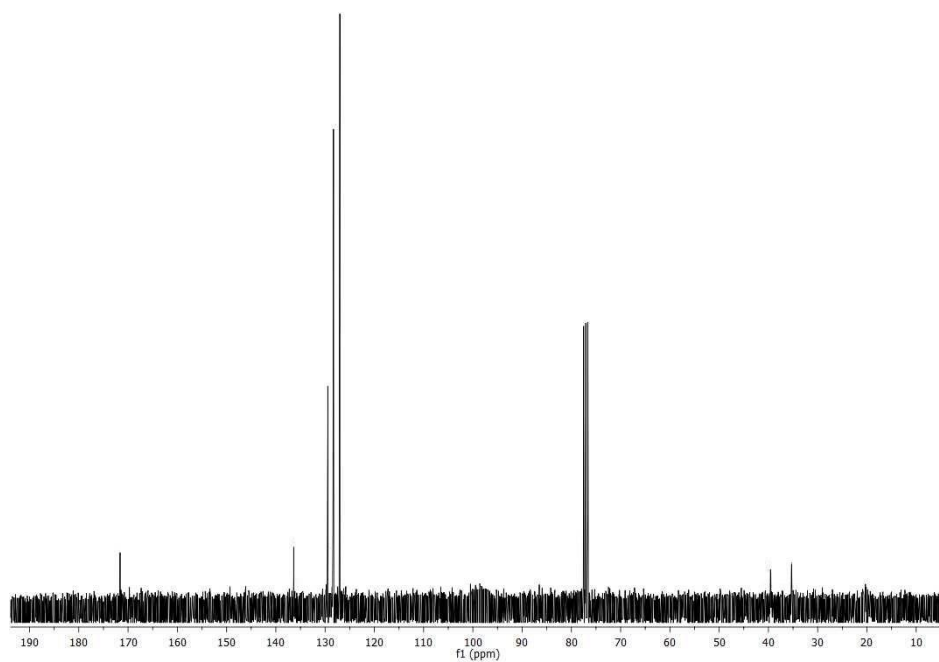
***N,N*-DIMETHYLBENZAMIDE (8a)**



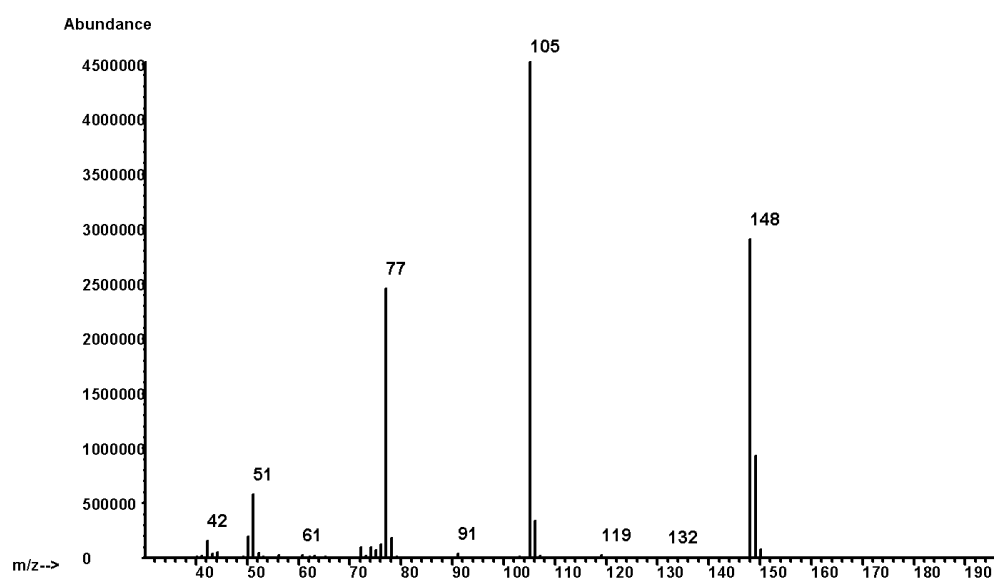
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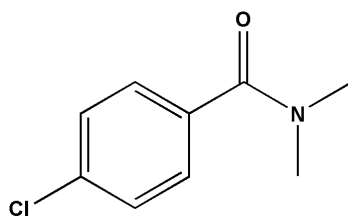
^{13}C NMR



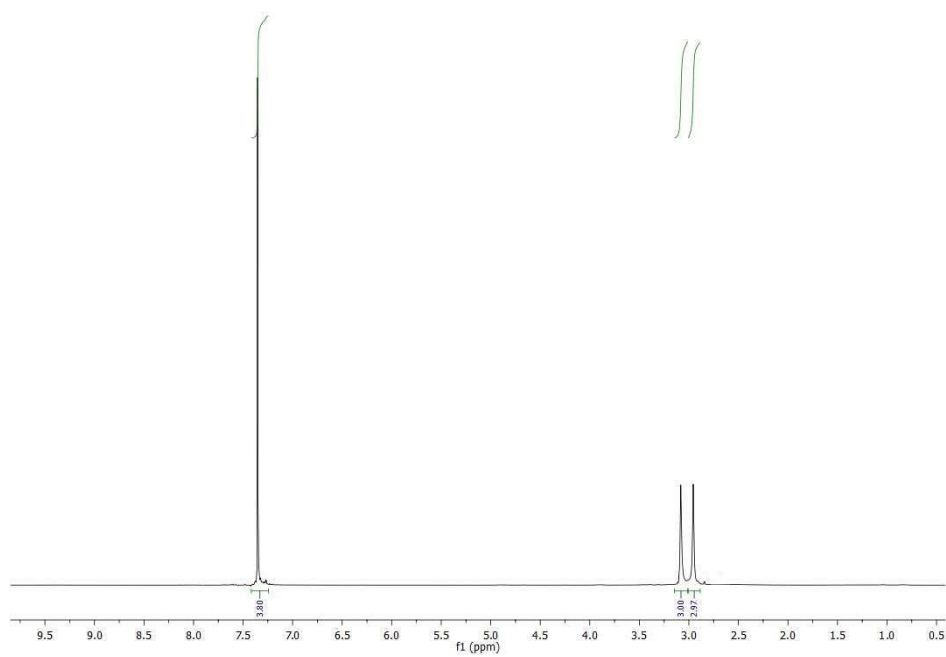
MS (EI)



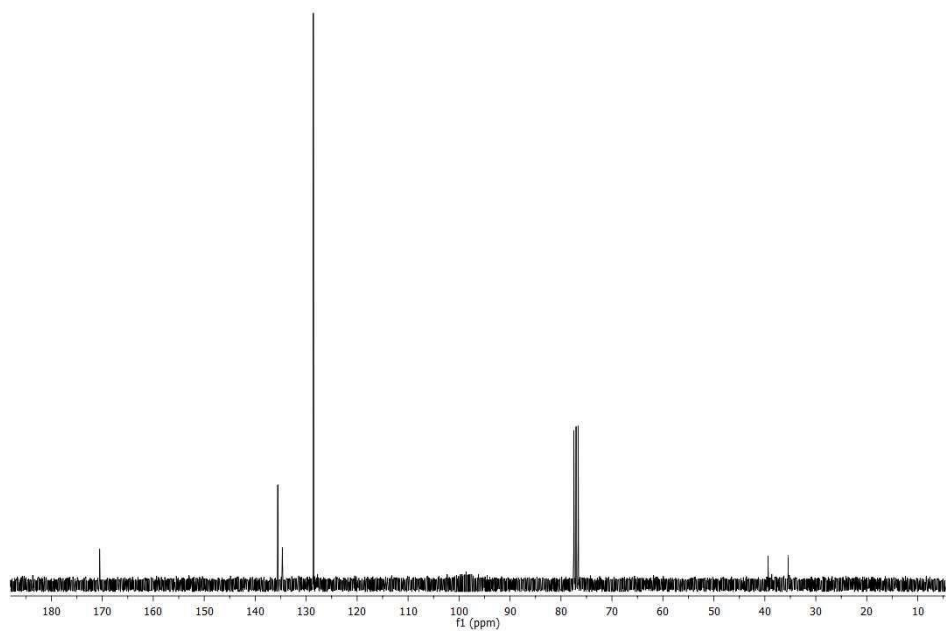
4-CHLORO-*N,N*-DIMETHYLBENZAMIDE (8d)



^1H NMR



^{13}C NMR



MS (EI)

