

圖 61-1 MS spectrum of compound 61

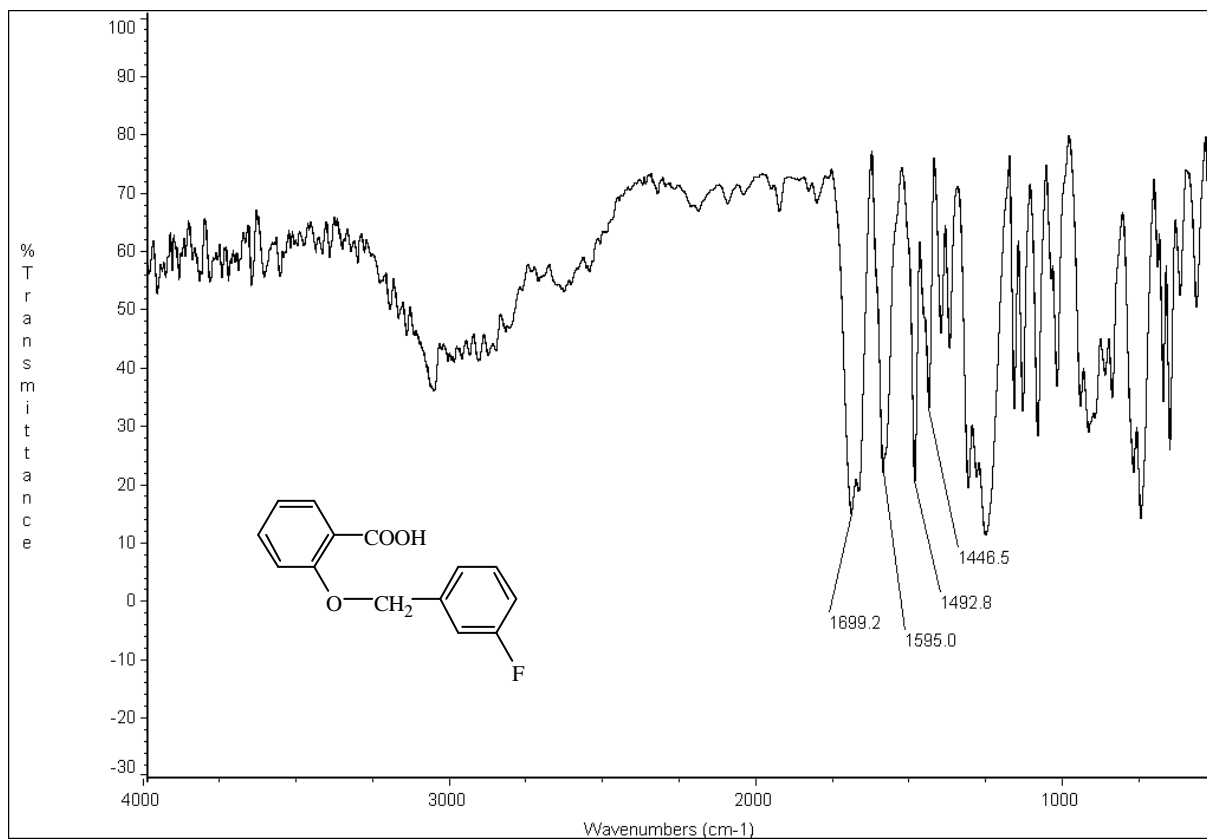


圖 61-2 IR (KBr) spectrum of compound 61

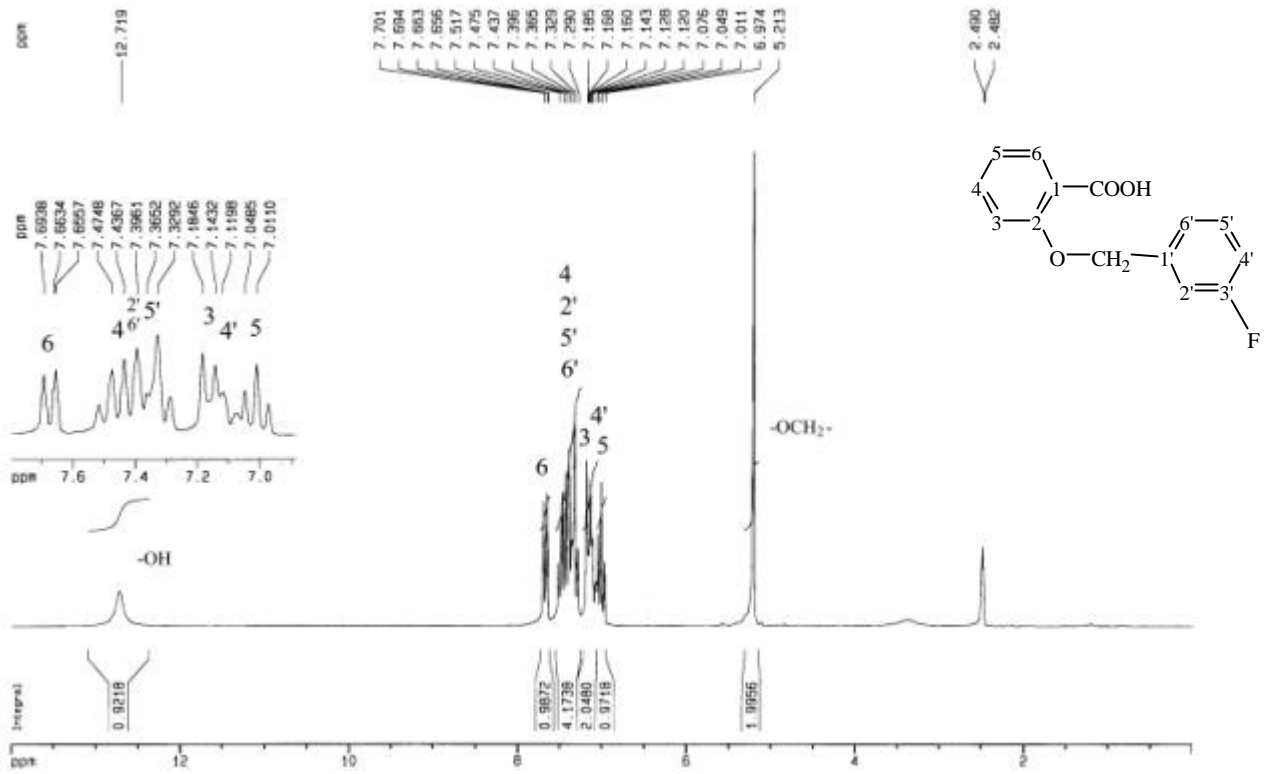


圖 61-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound **61**

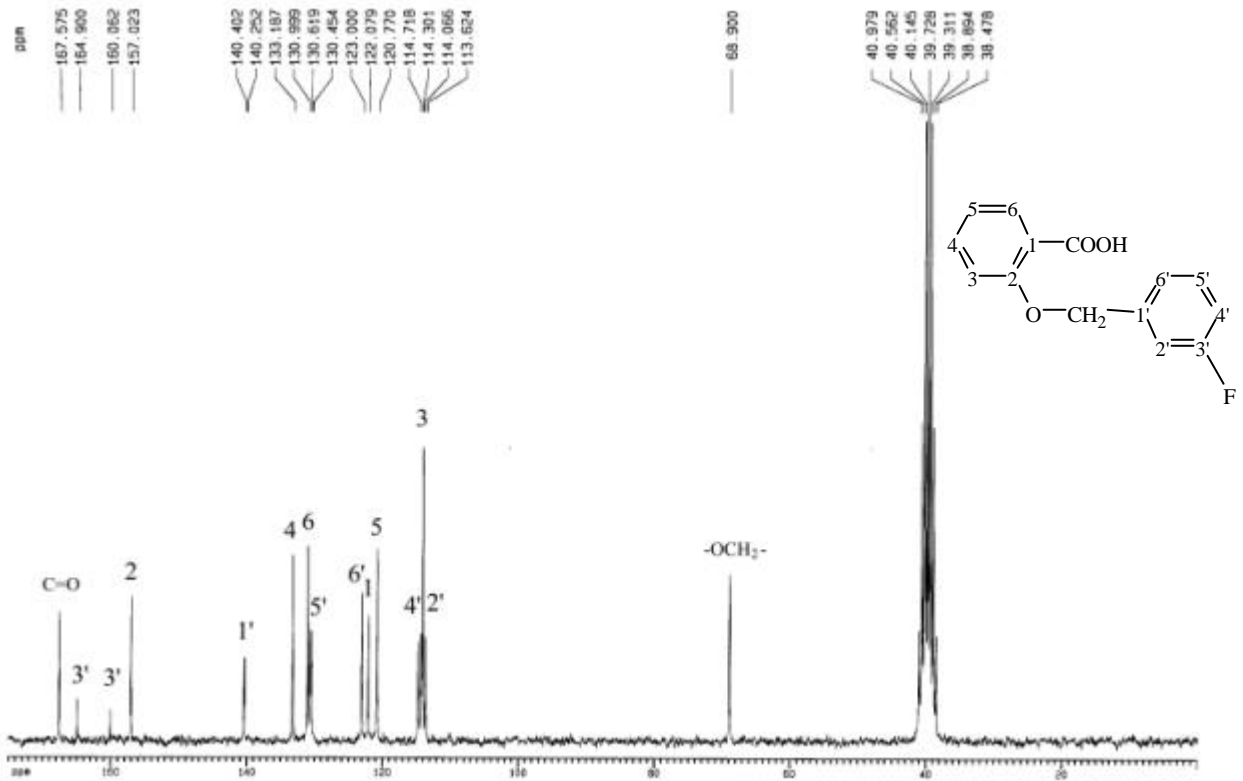


圖 61-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound **61**

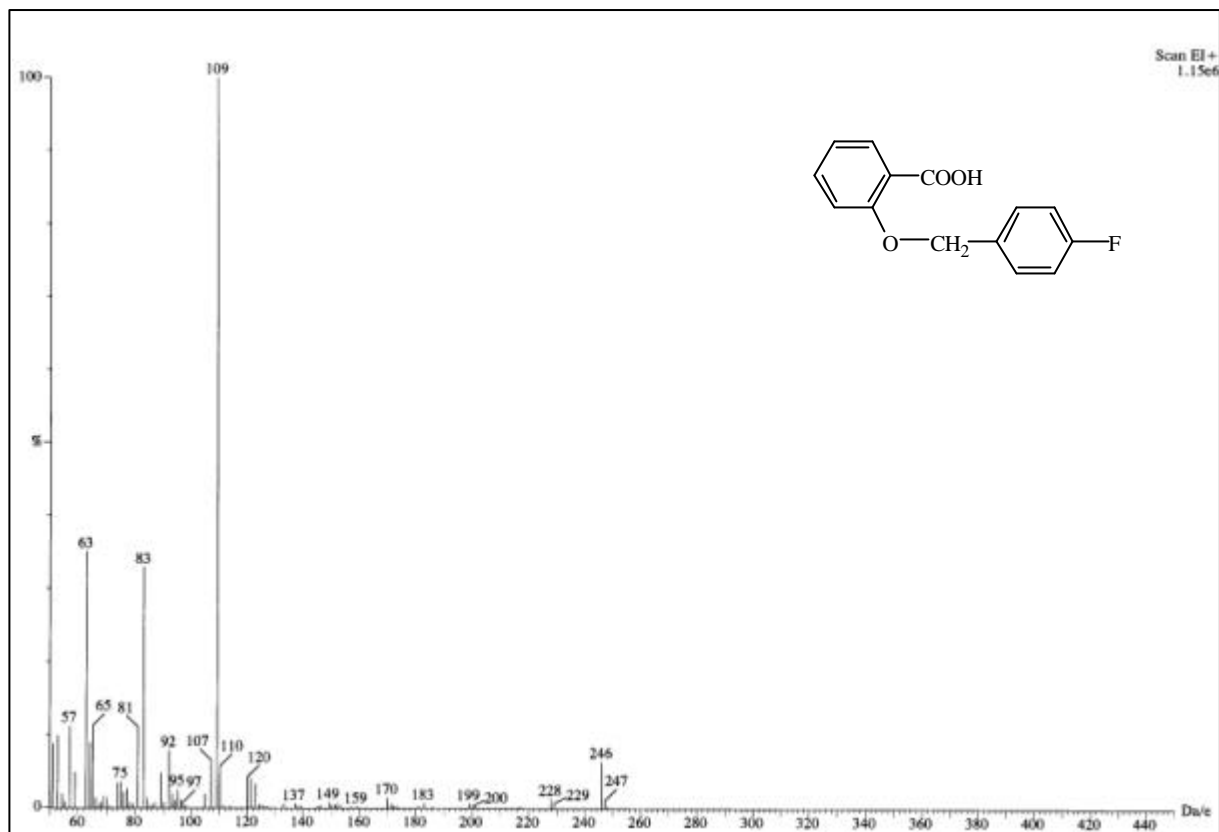


圖 62-1 MS spectrum of compound 62

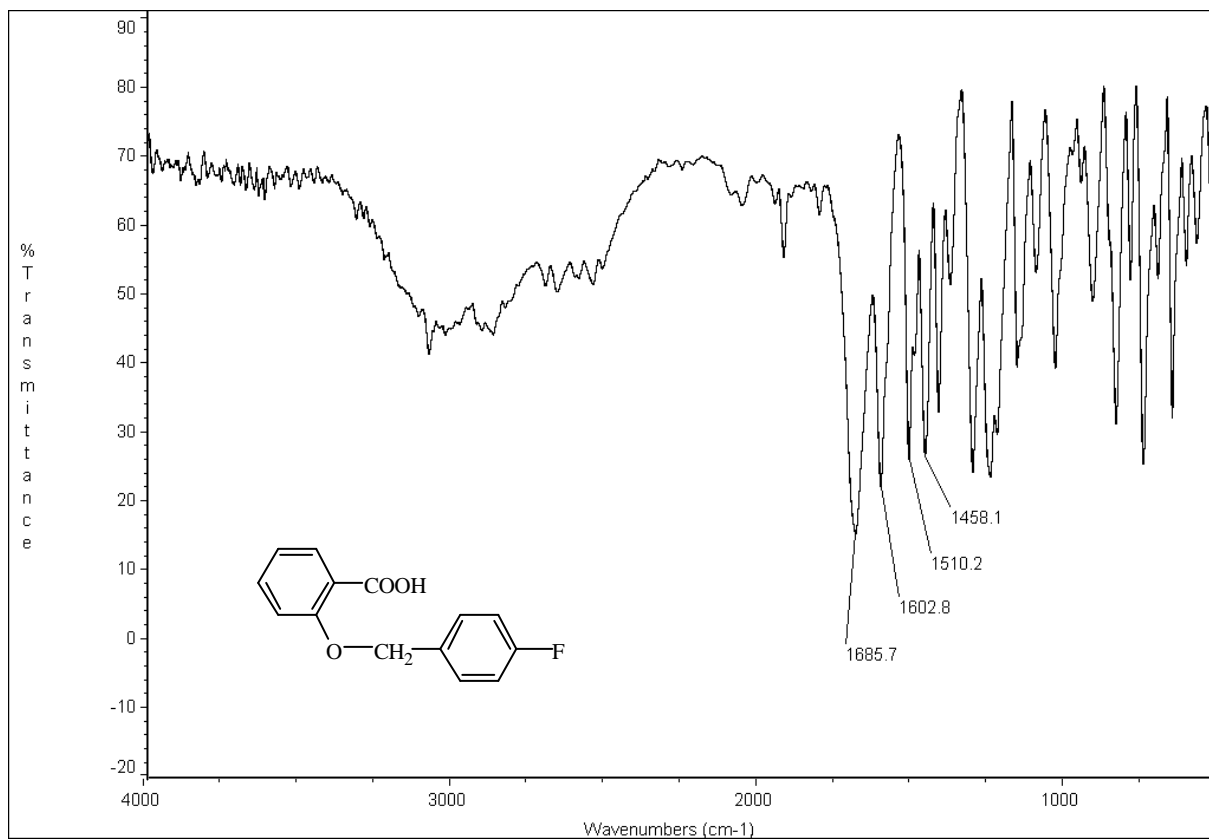


圖 62-2 IR (KBr) spectrum of compound 62

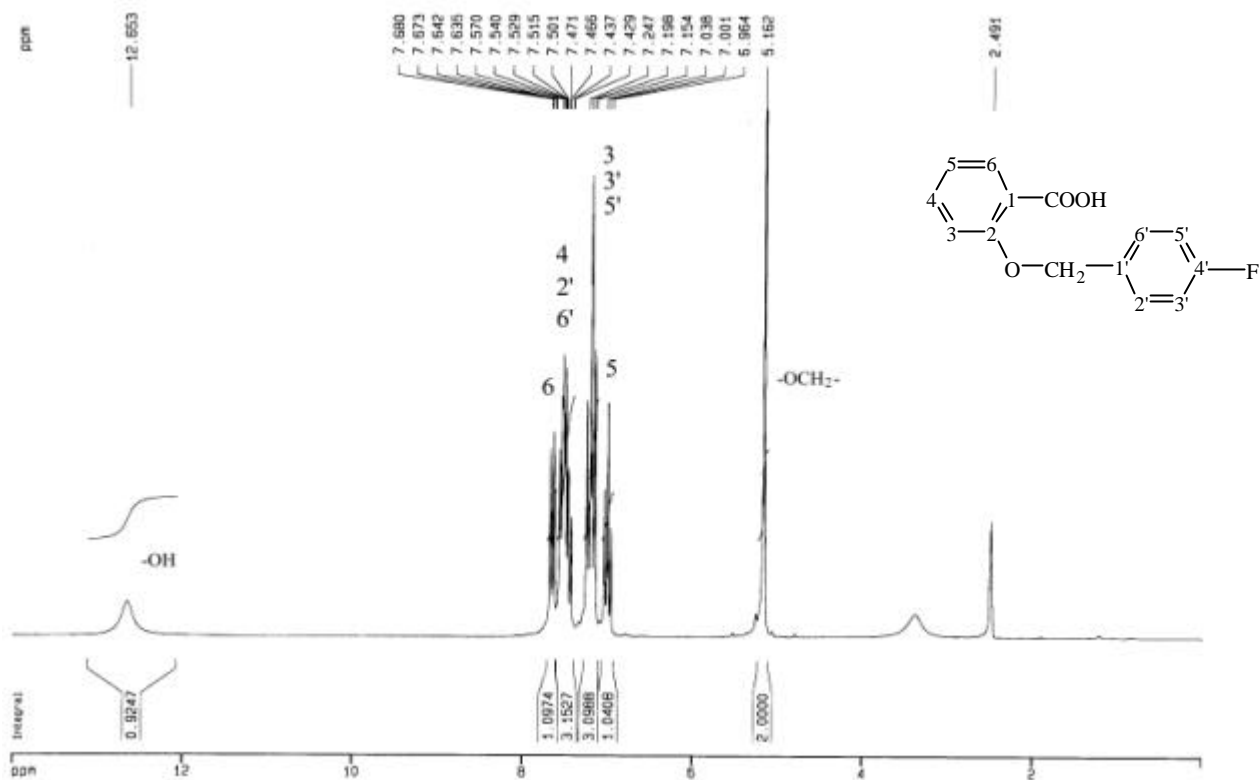


圖 62-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound **62**

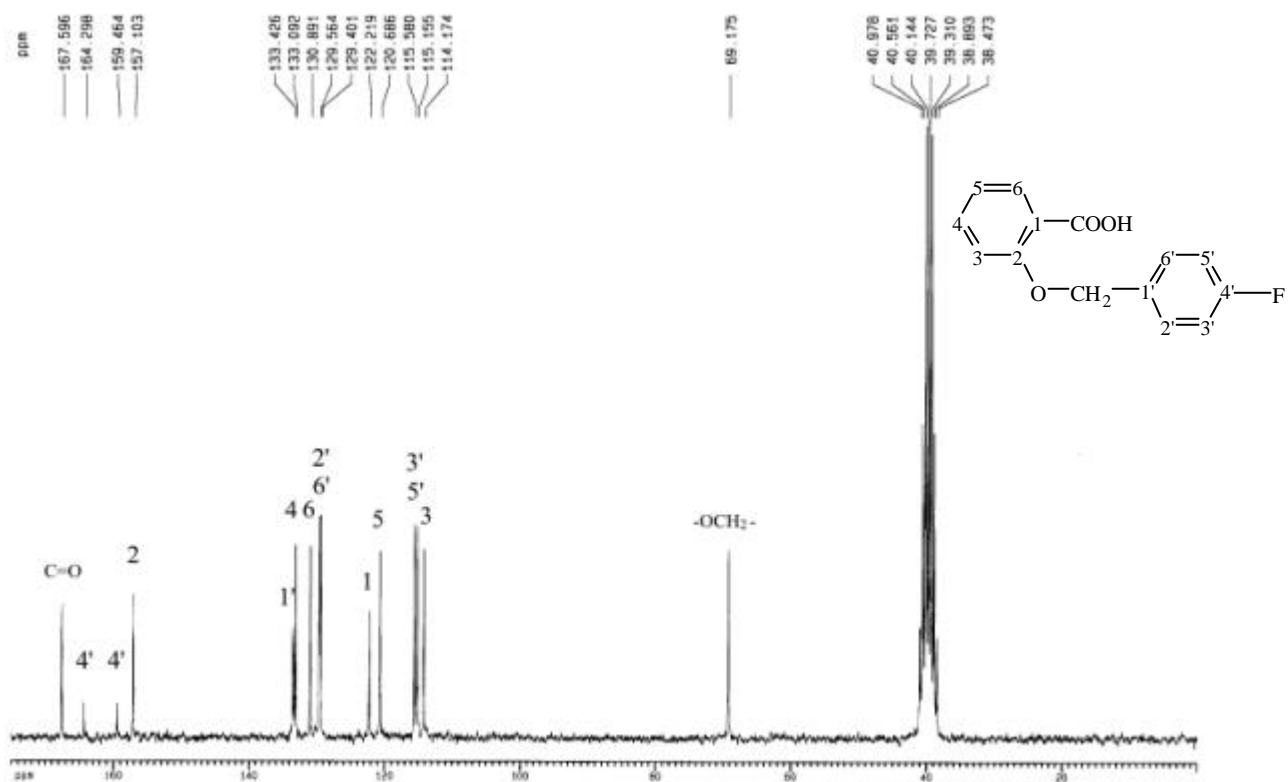


圖 62-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound **62**

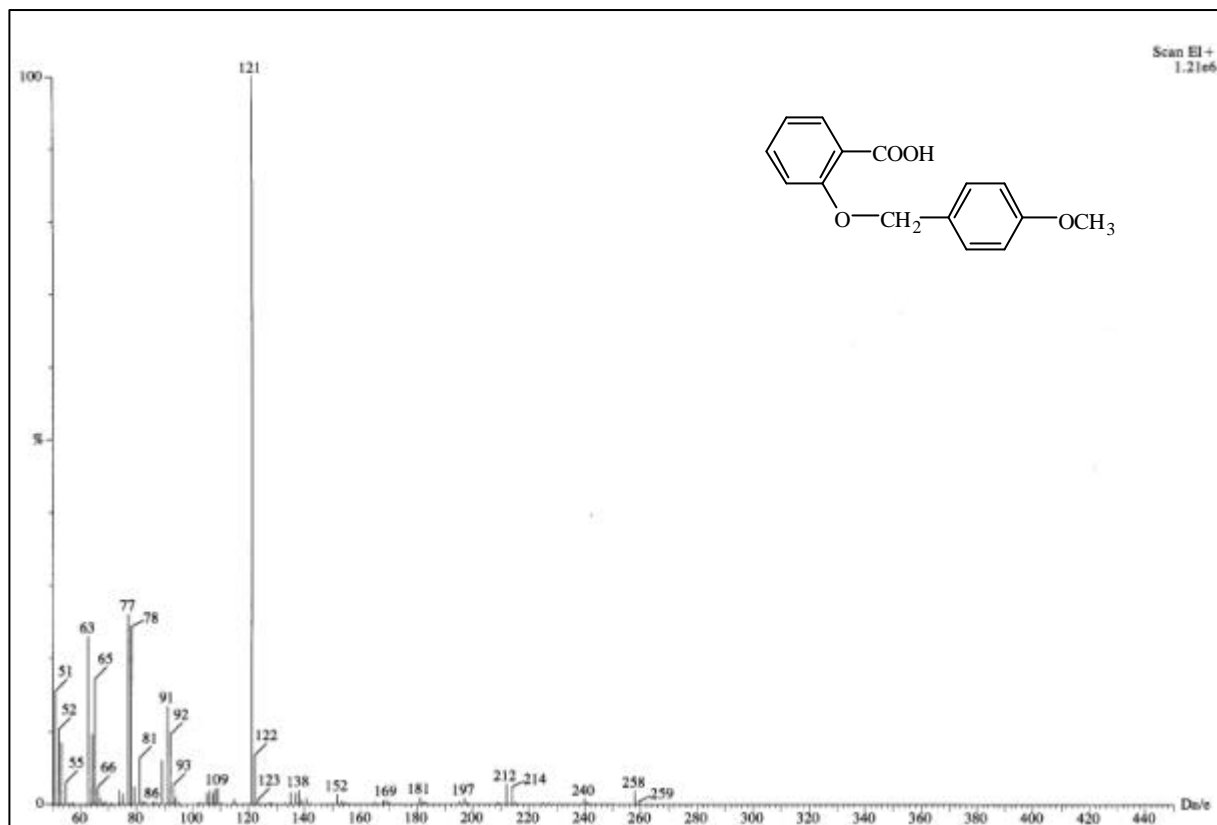


圖 64-1 MS spectrum of compound 64

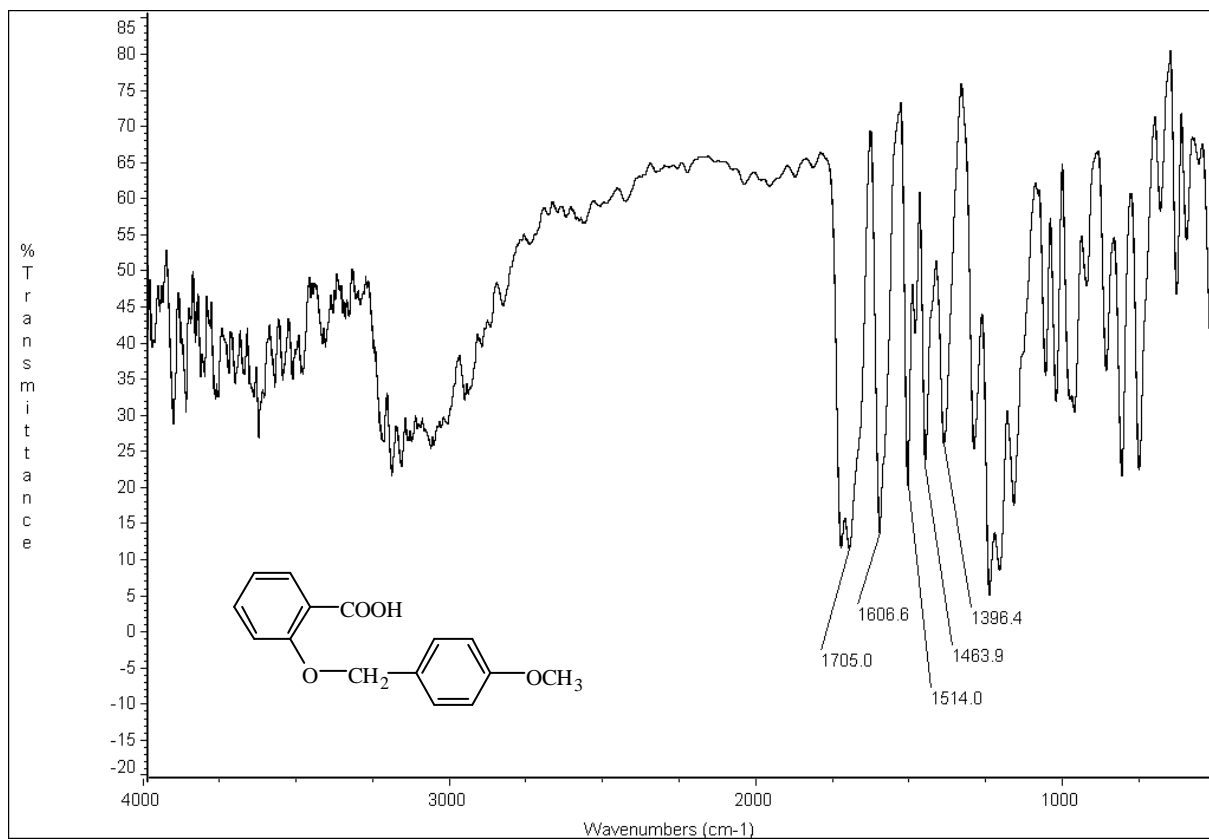


圖 64-2 IR (KBr) spectrum of compound 64

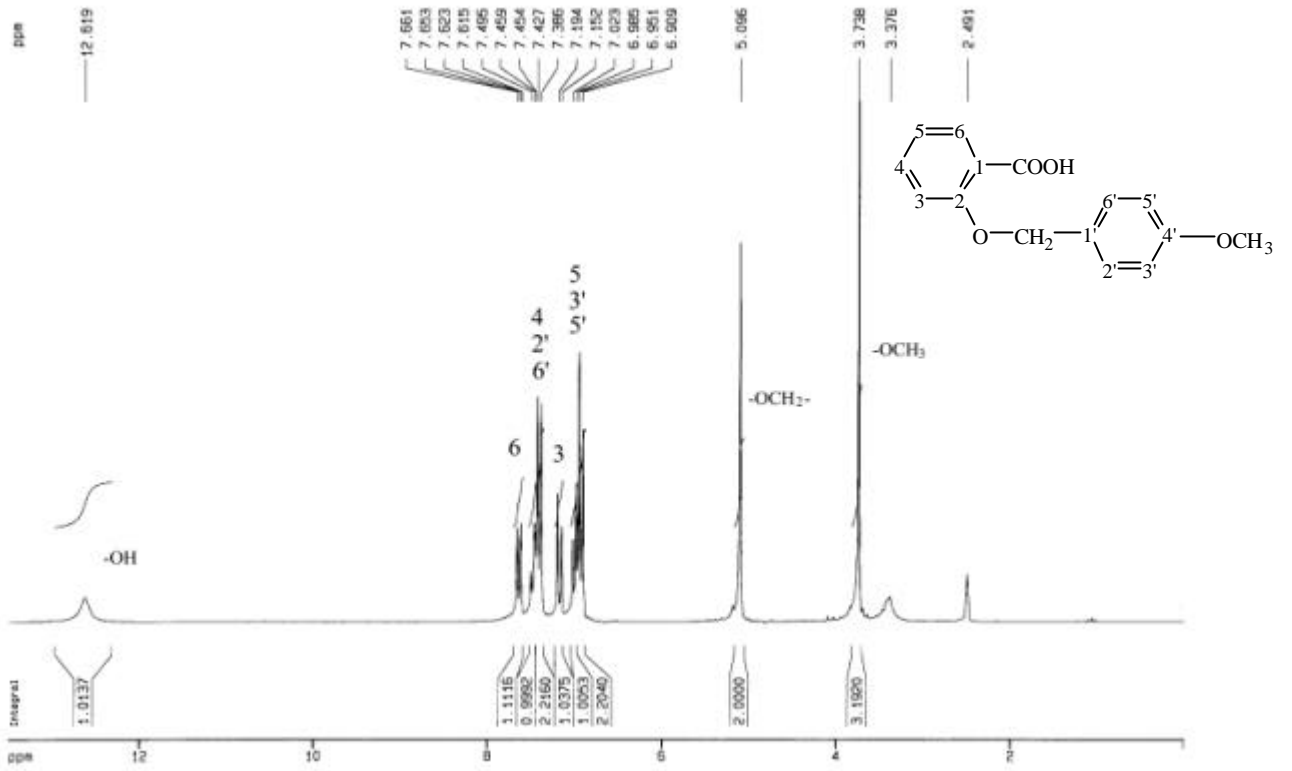


圖 64-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound **64**

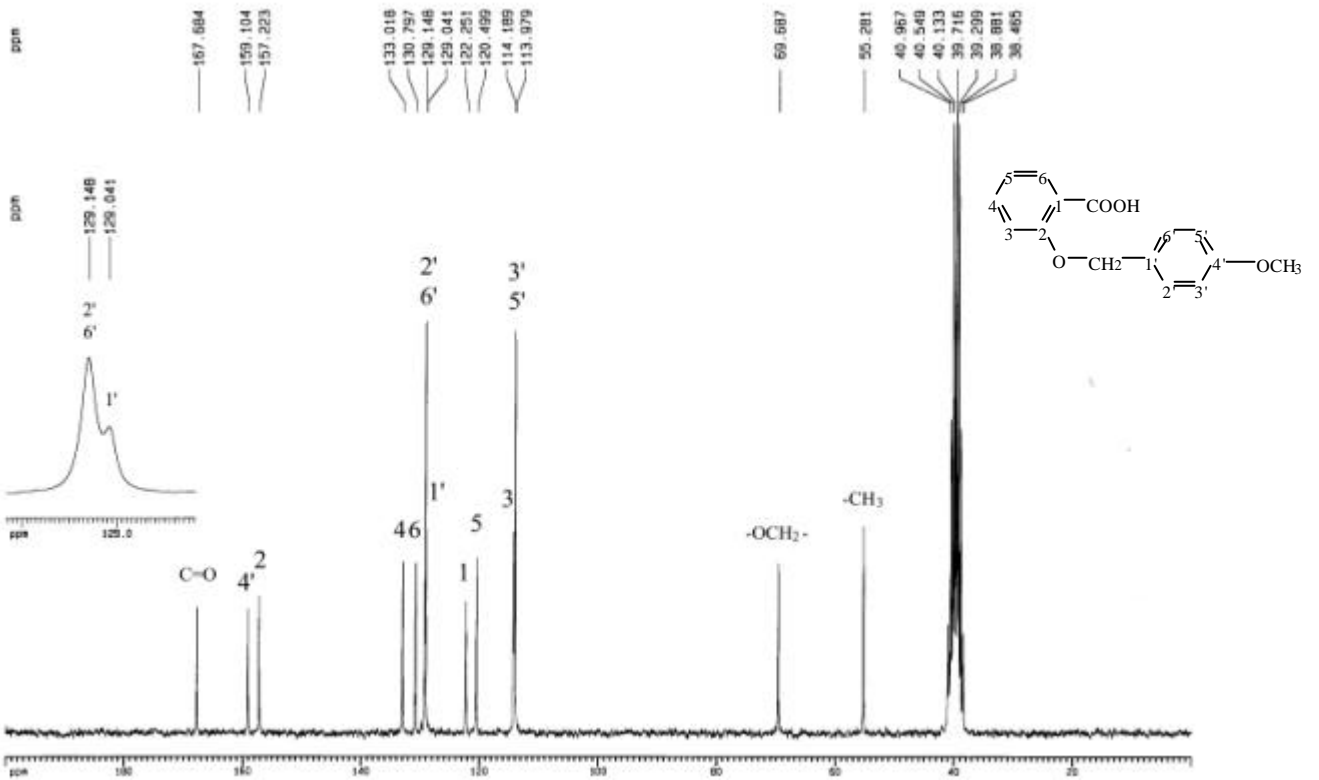


圖 64-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound **64**

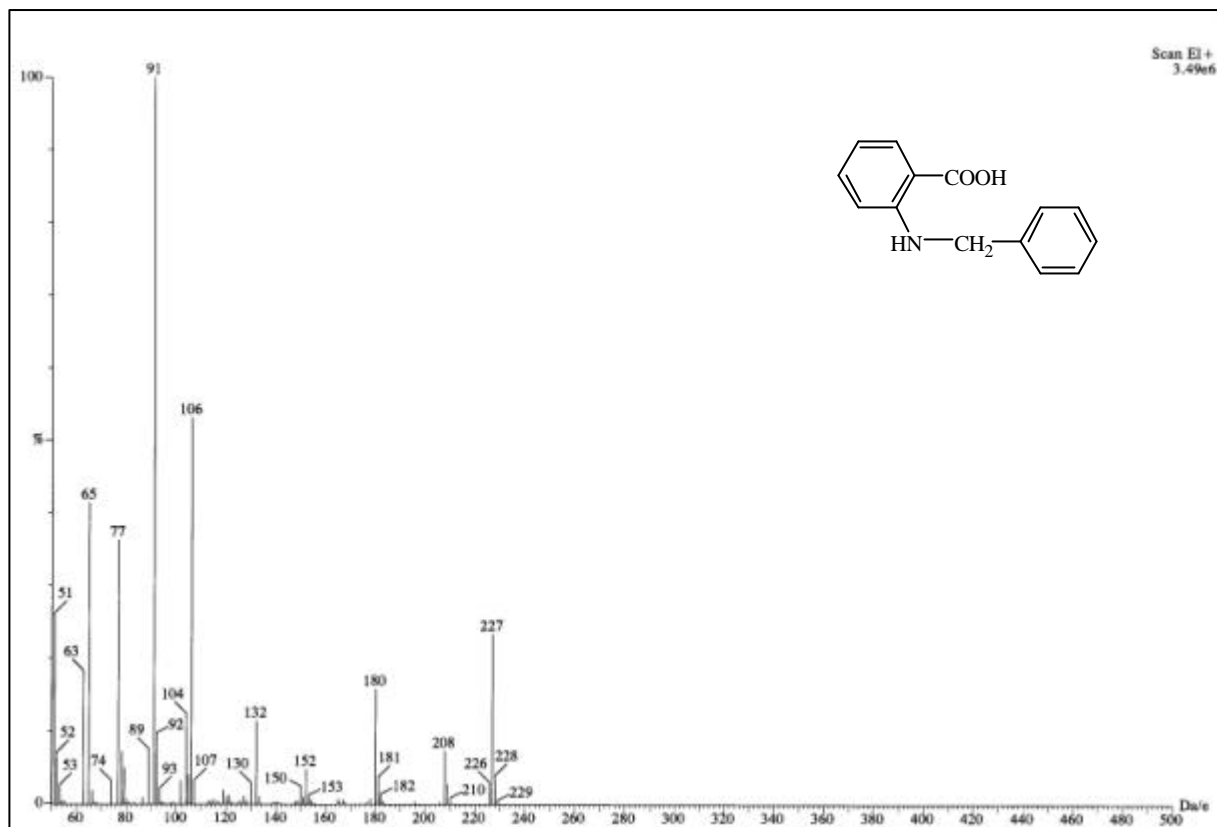


圖 65-1 MS spectrum of compound **65**

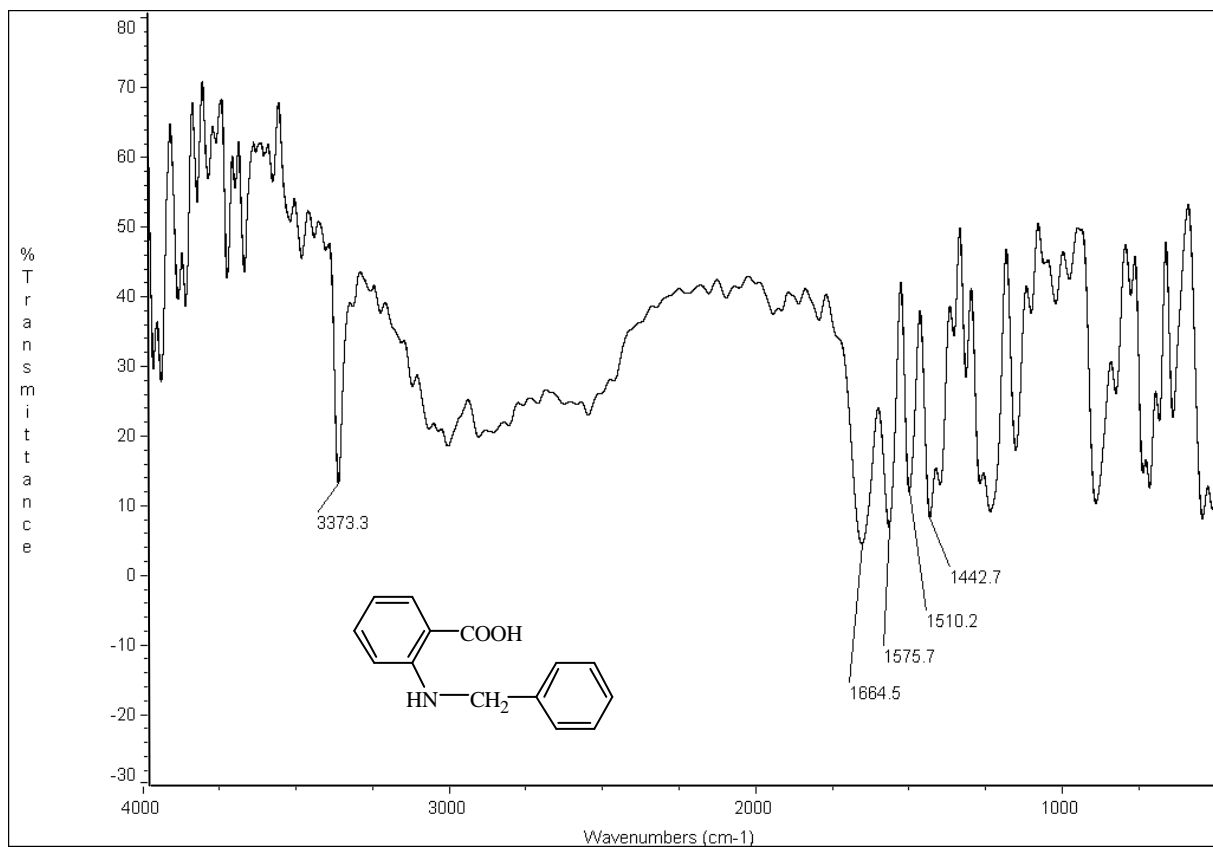


圖 65-2 IR (KBr) spectrum of compound **65**

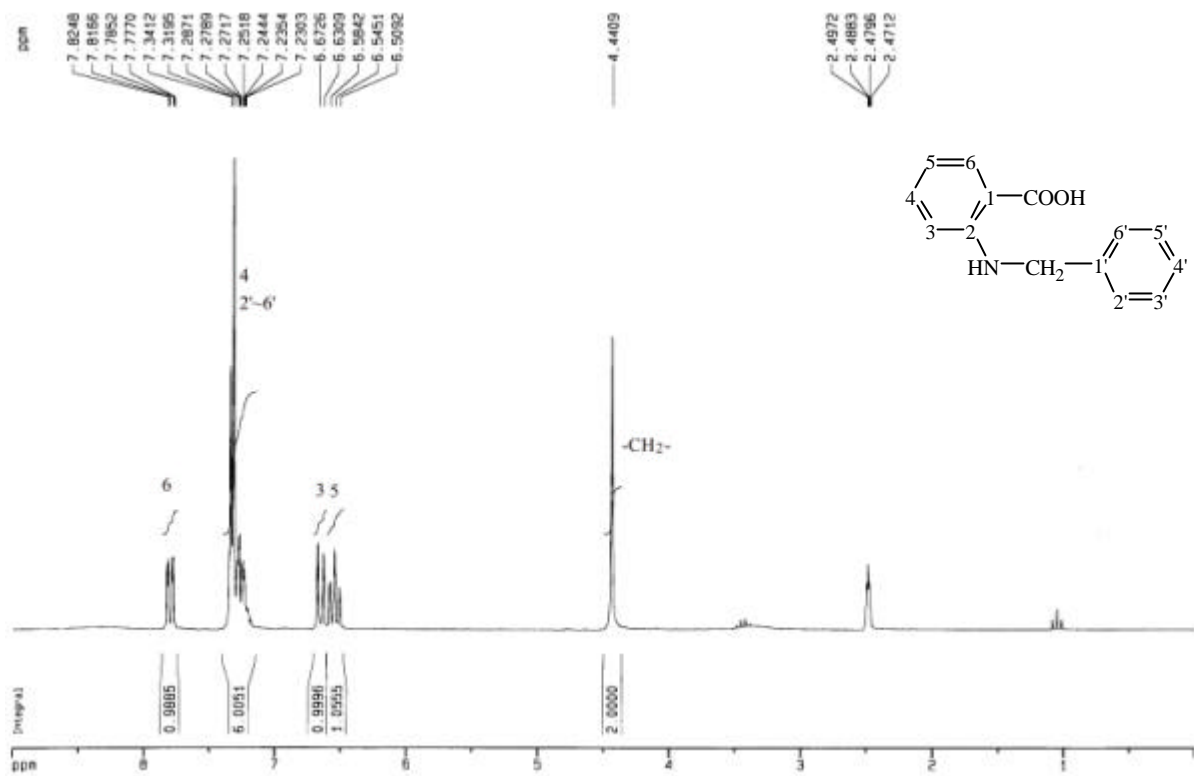


圖 65-3 $^1\text{H-NMR}$ ($\text{DMSO-}d_6$, 200 MHz) spectrum of compound **65**

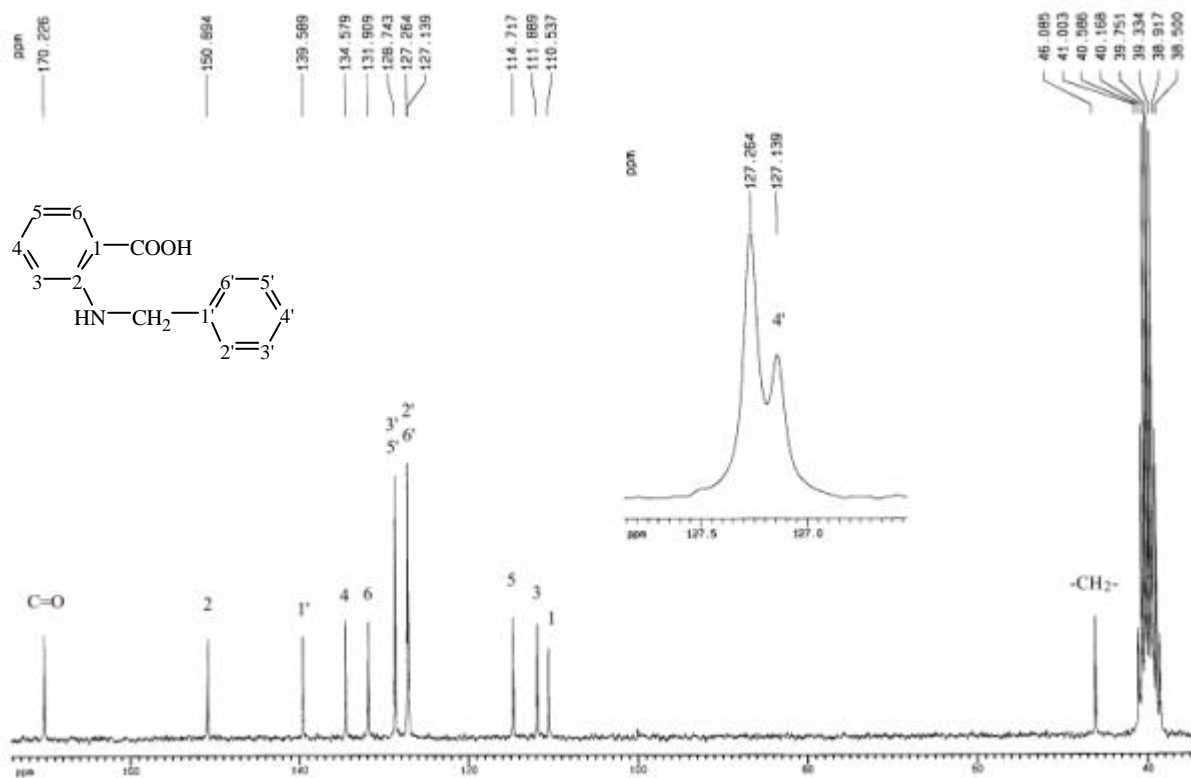


圖 65-4 $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$, 50 MHz) spectrum of compound **65**

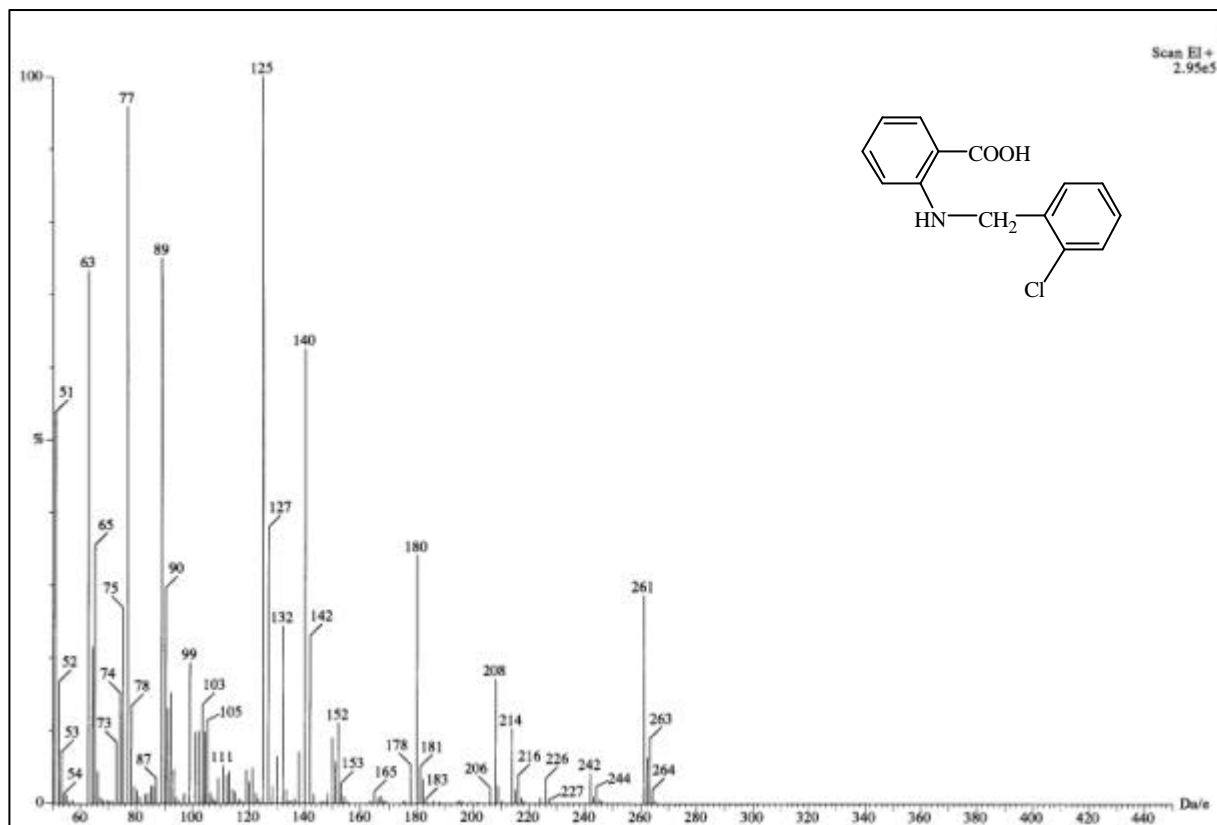


圖 66-1 MS spectrum of compound 66

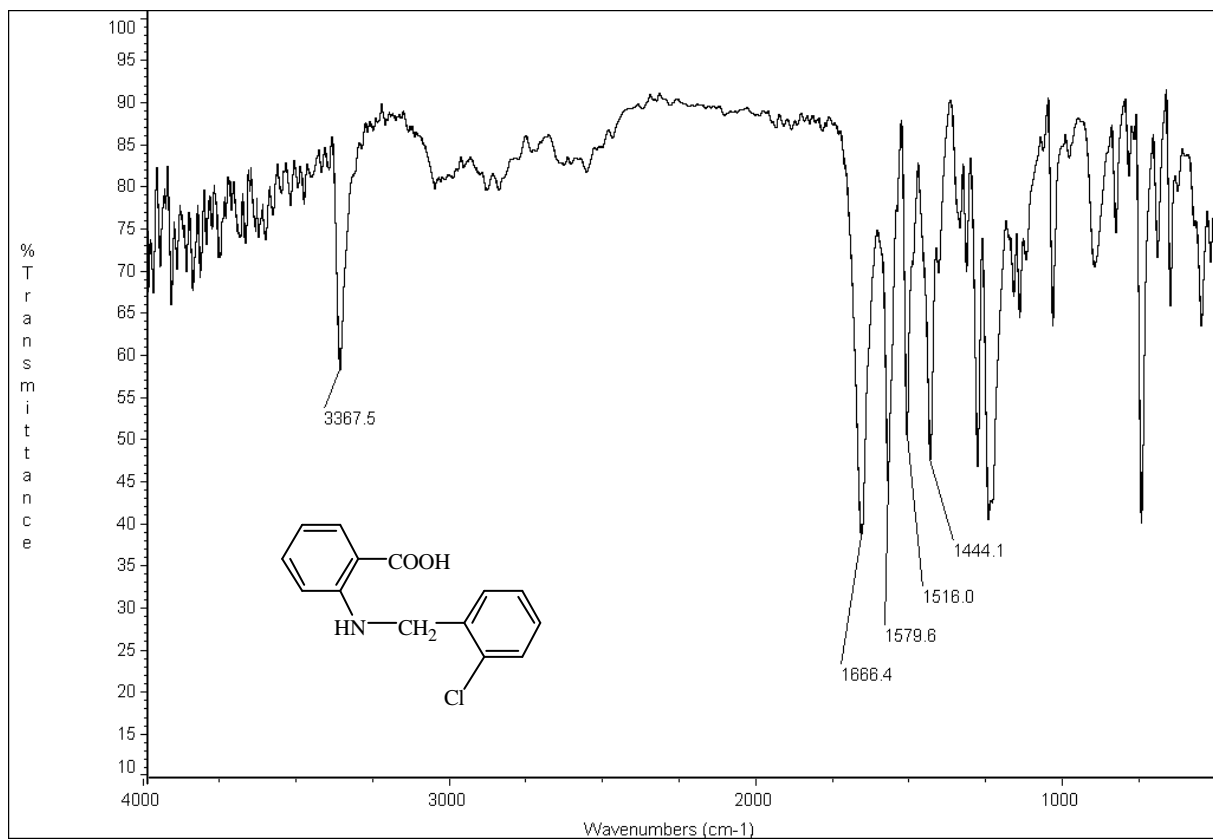


圖 66-2 IR (KBr) spectrum of compound 66

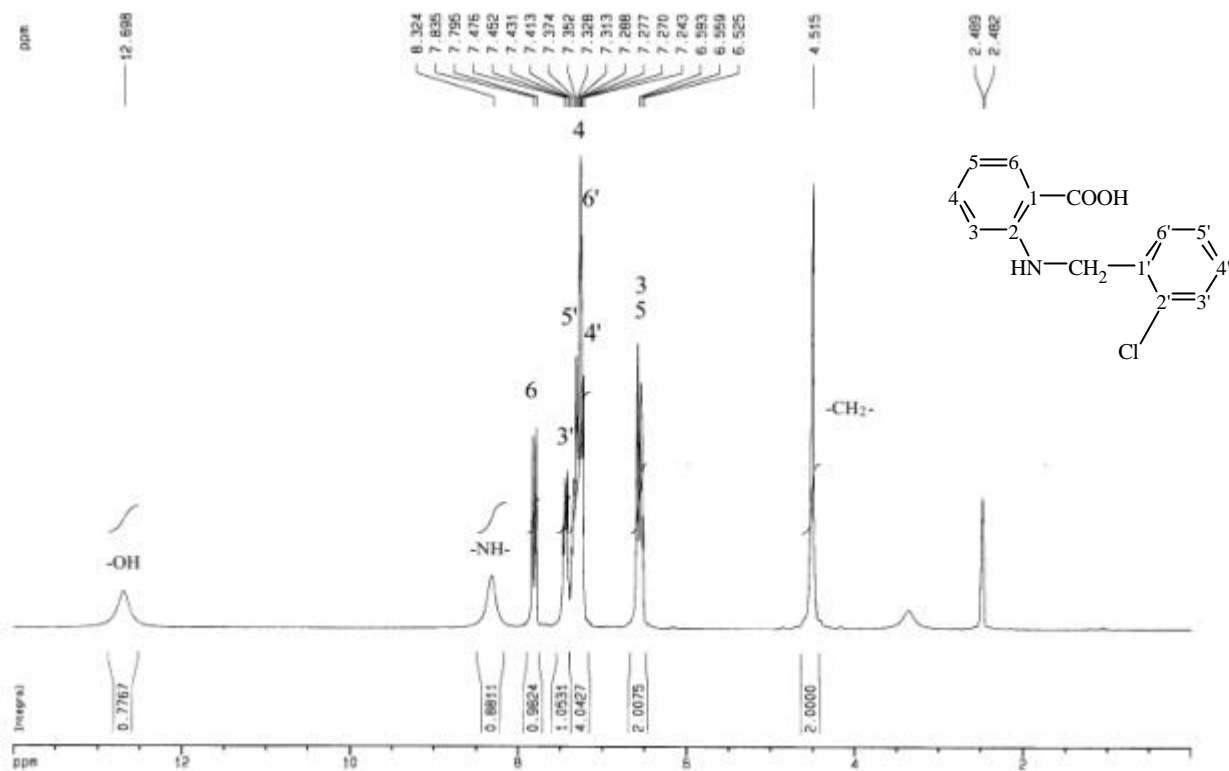


圖 66-3 $^1\text{H-NMR}$ ($\text{DMSO-}d_6$, 200 MHz) spectrum of compound **66**

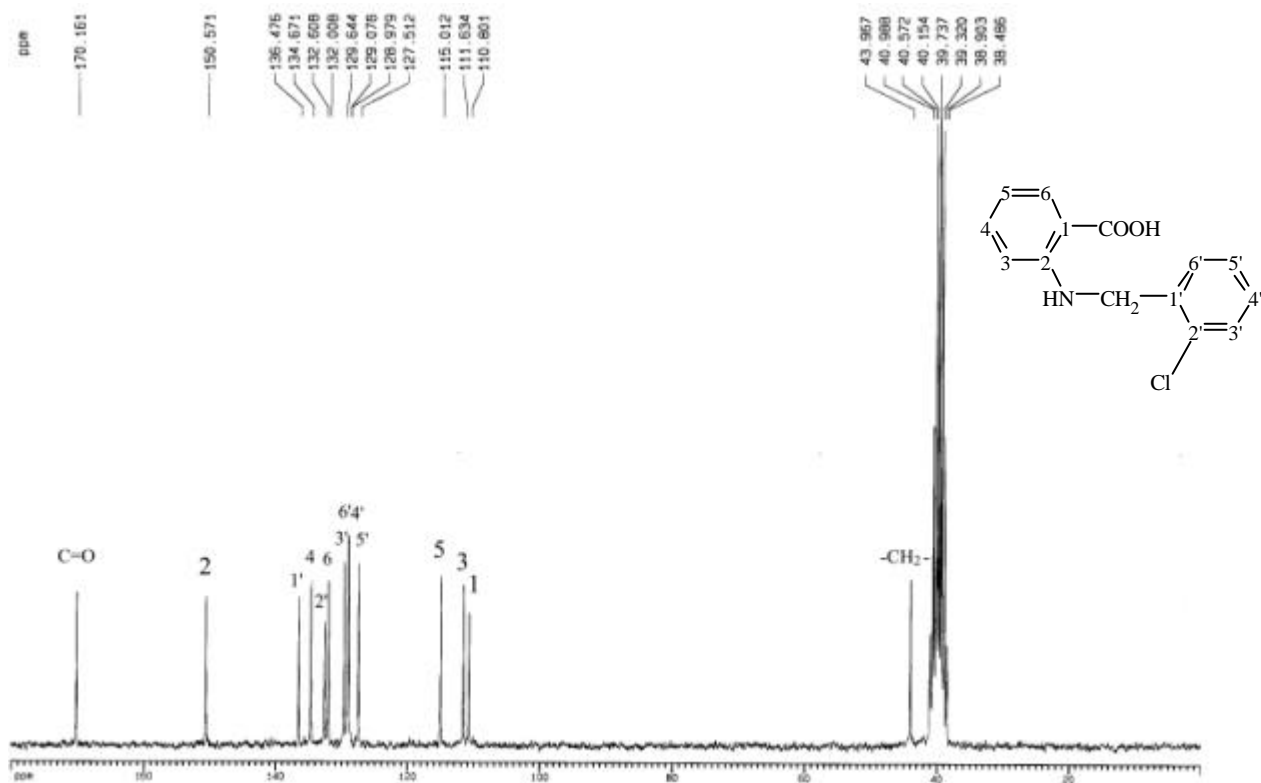


圖 66-4 $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$, 50 MHz) spectrum of compound **66**

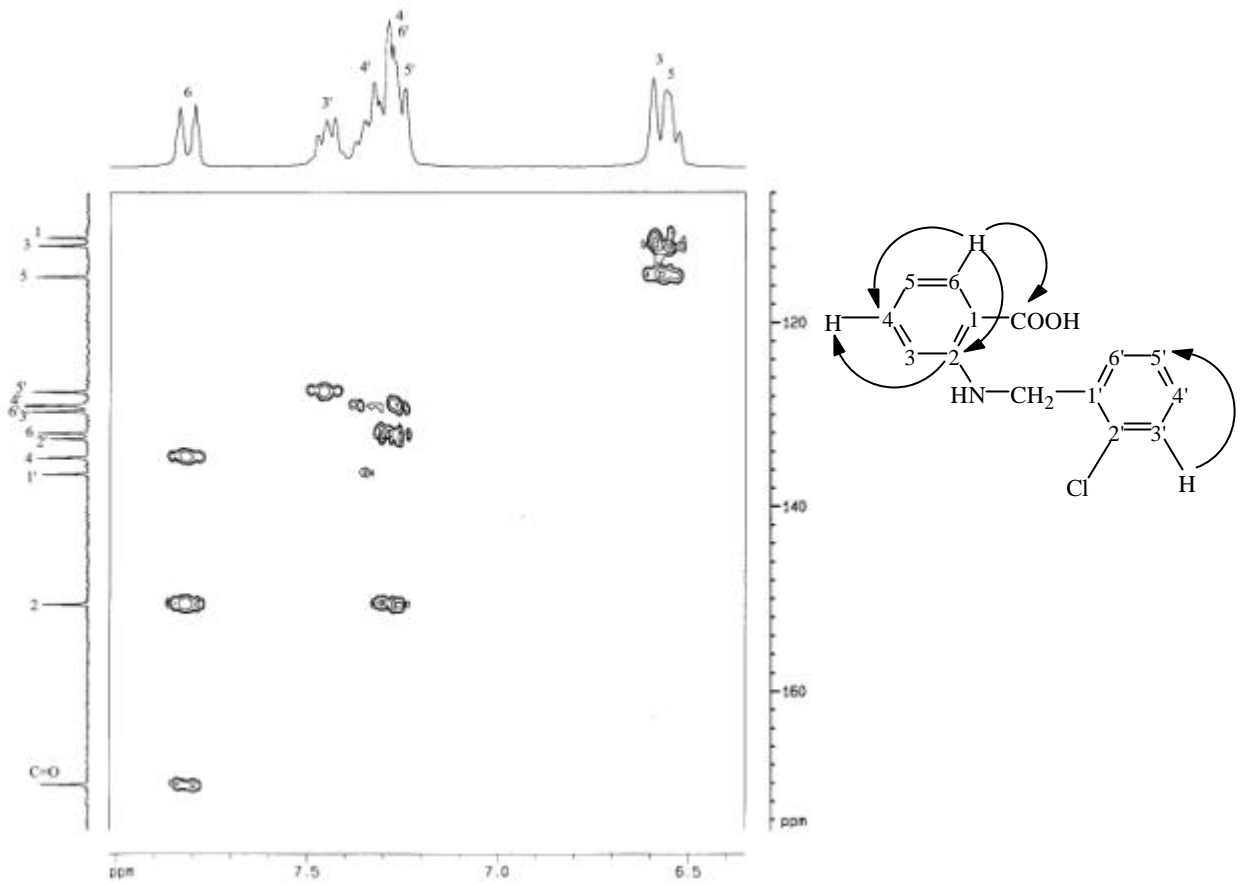


圖 66-5a HMBC (DMSO-*d*₆) spectrum of compound **66**

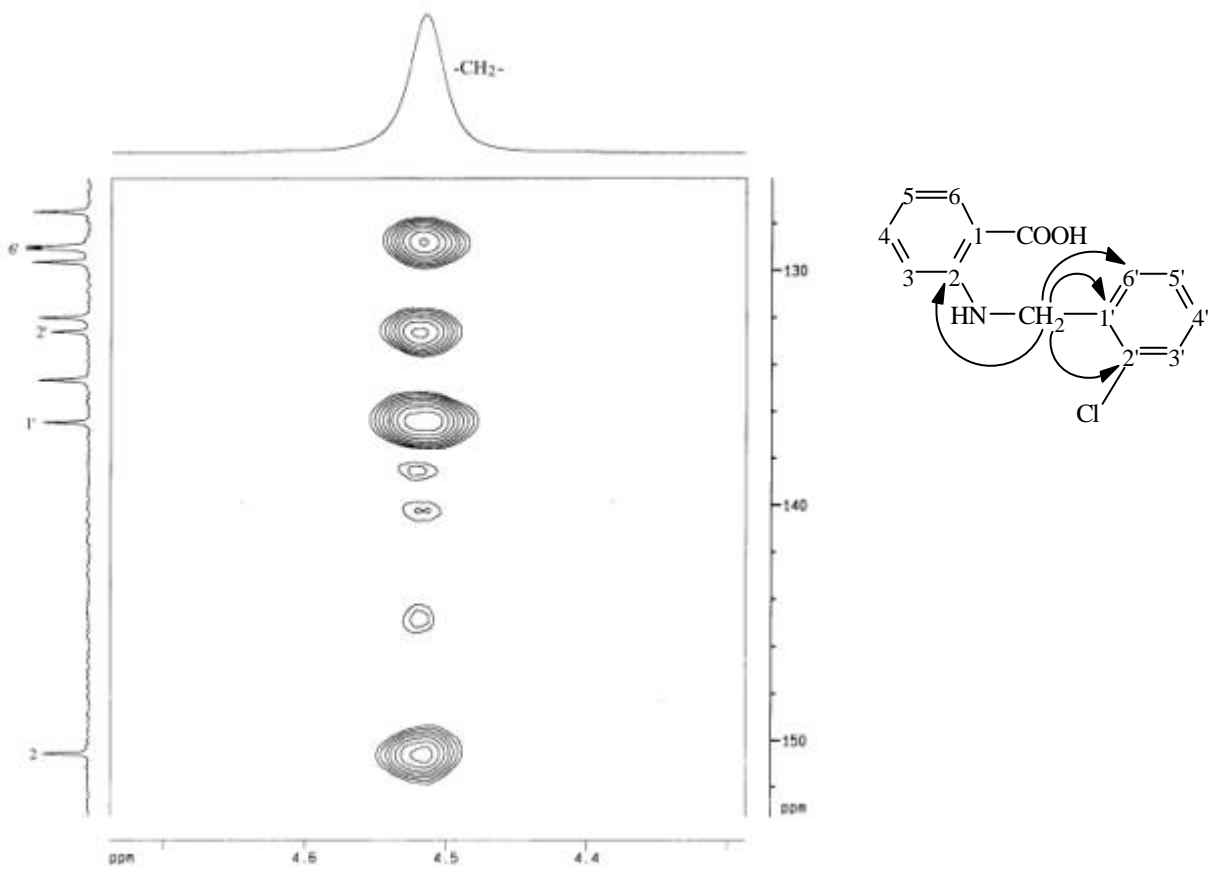


圖 66-5b HMBC (DMSO-*d*₆) spectrum of compound **66**

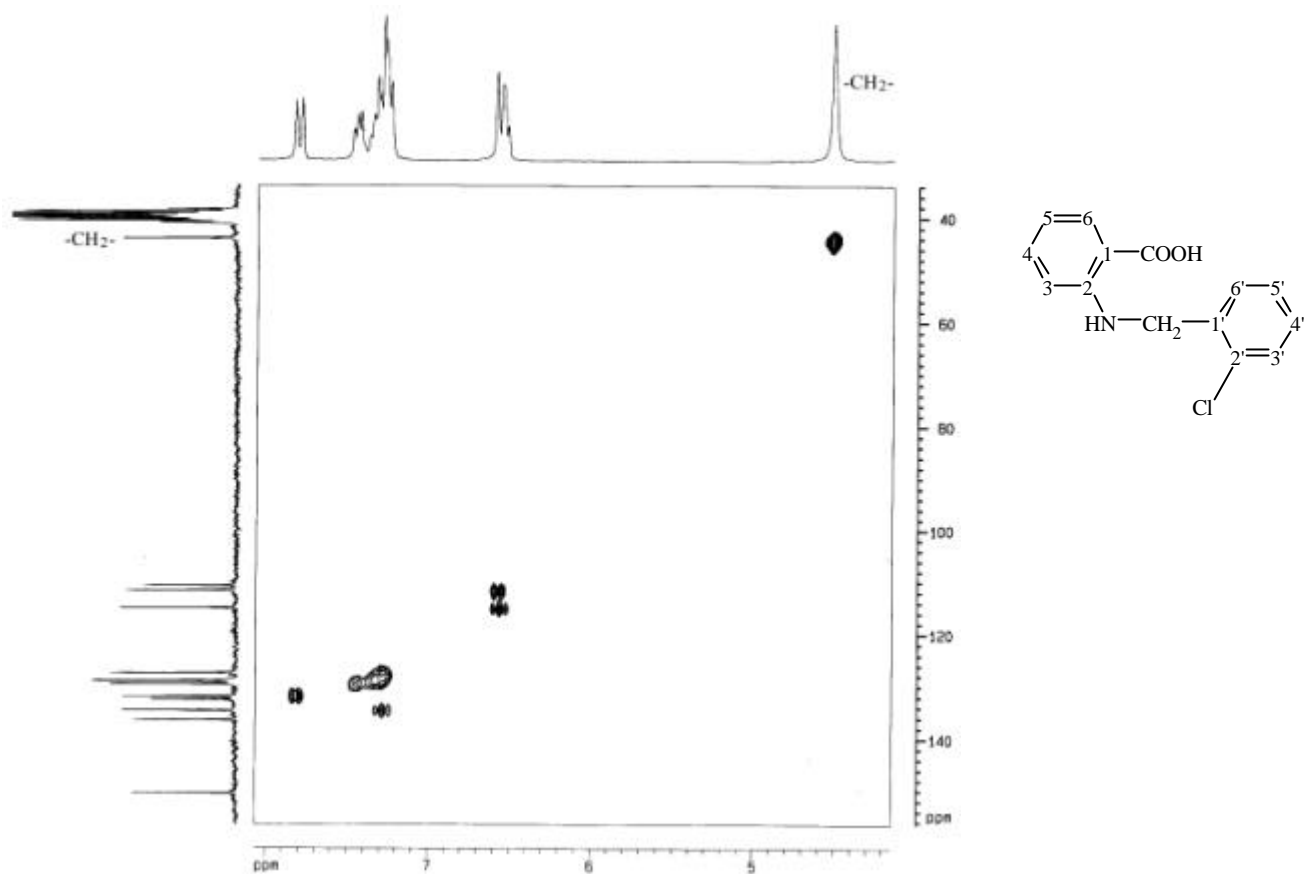


圖 66-6a HMQC (DMSO- d_6) spectrum of compound **66**

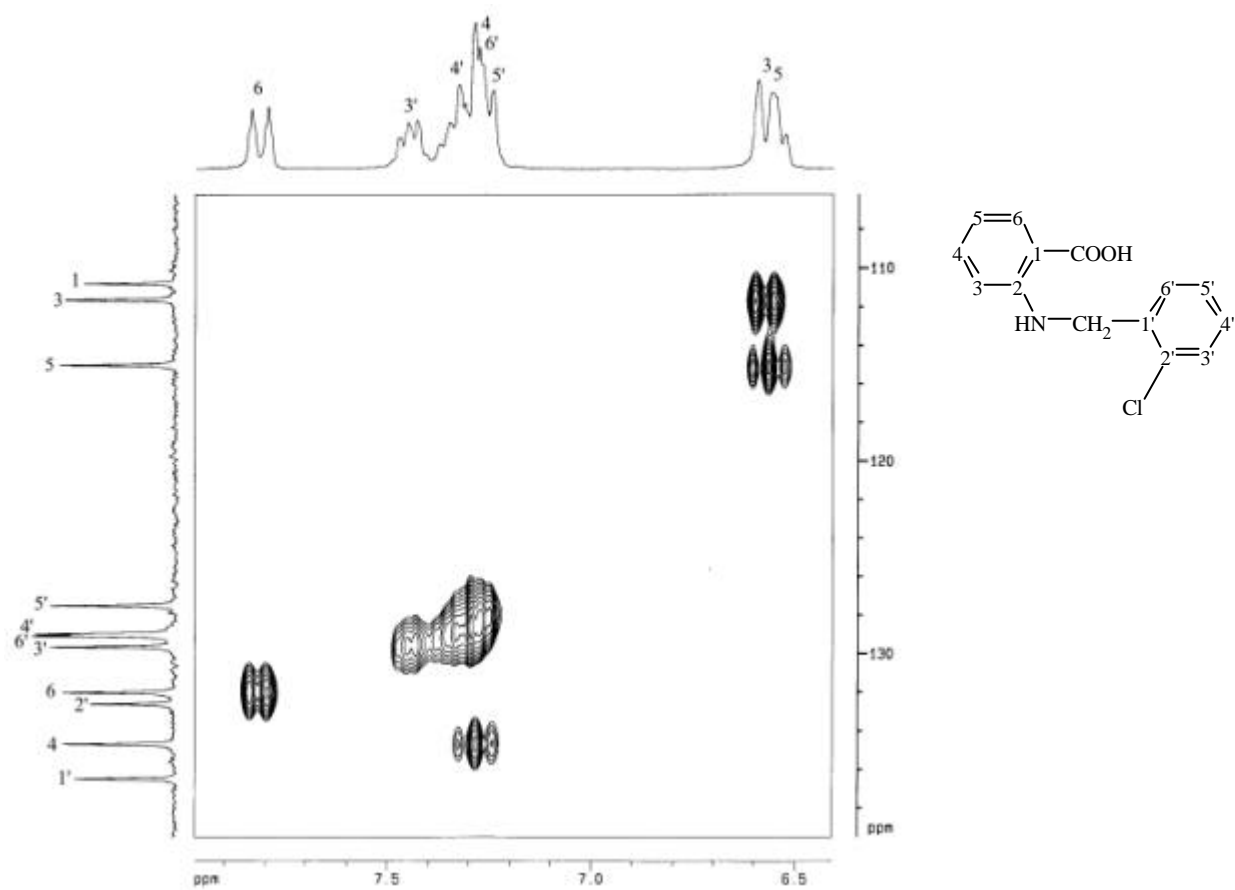


圖 66-6b HMQC (DMSO- d_6) spectrum of compound **66**

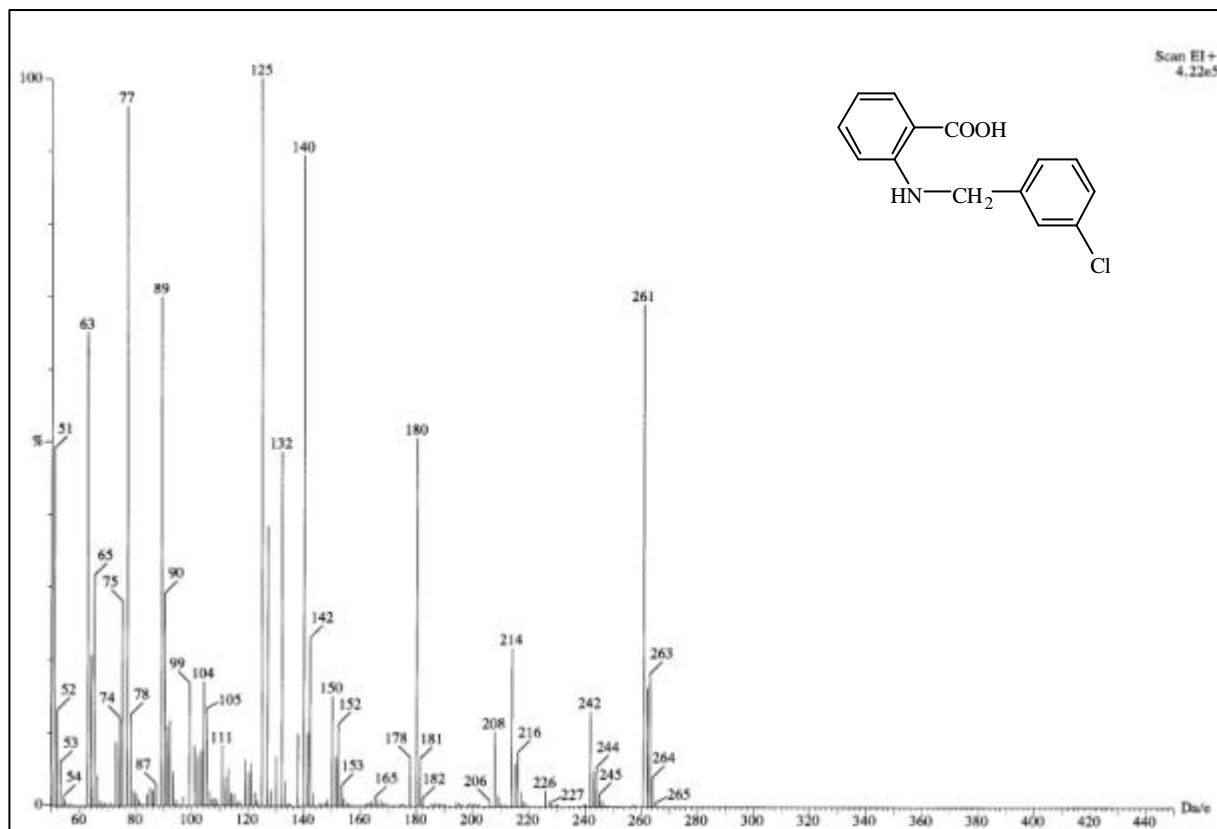


圖 67-1 MS spectrum of compound 67

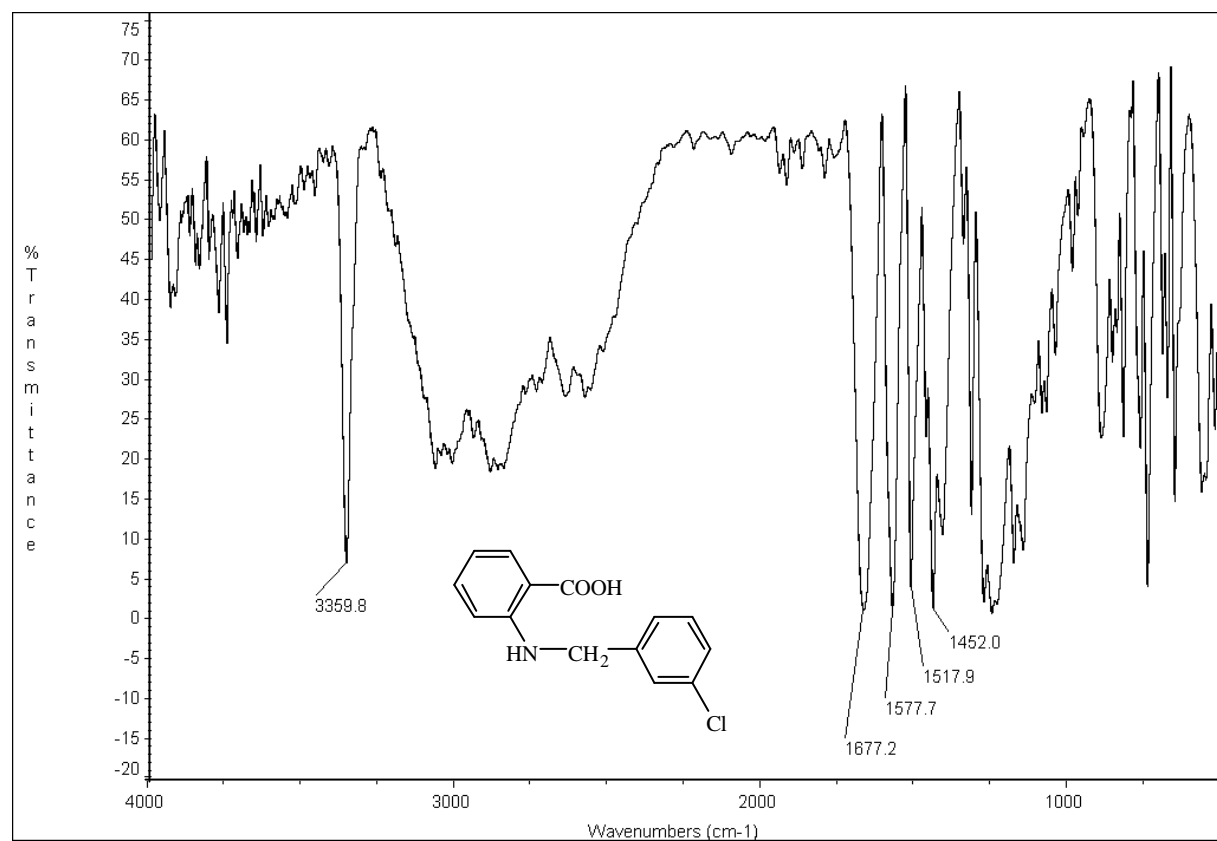


圖 67-2 IR (KBr) spectrum of compound 67

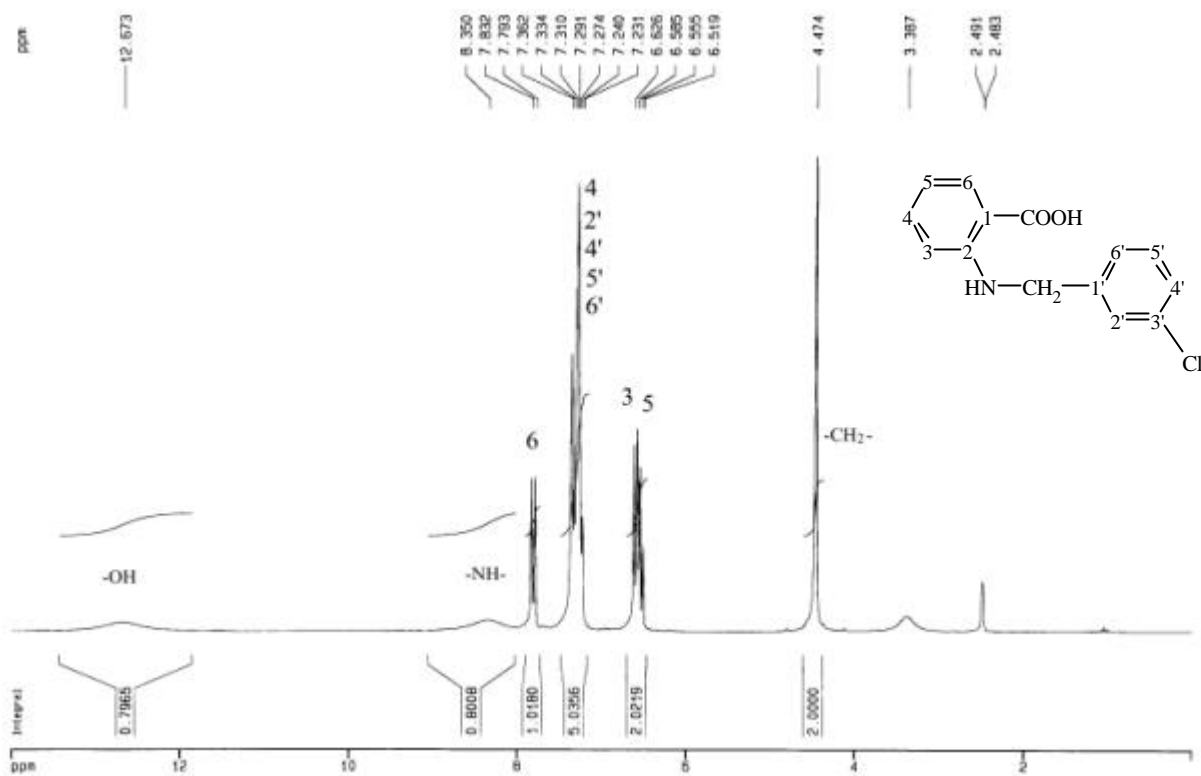


圖 67-3 $^1\text{H-NMR}$ (DMSO- d_6 , 200 MHz) spectrum of compound **67**

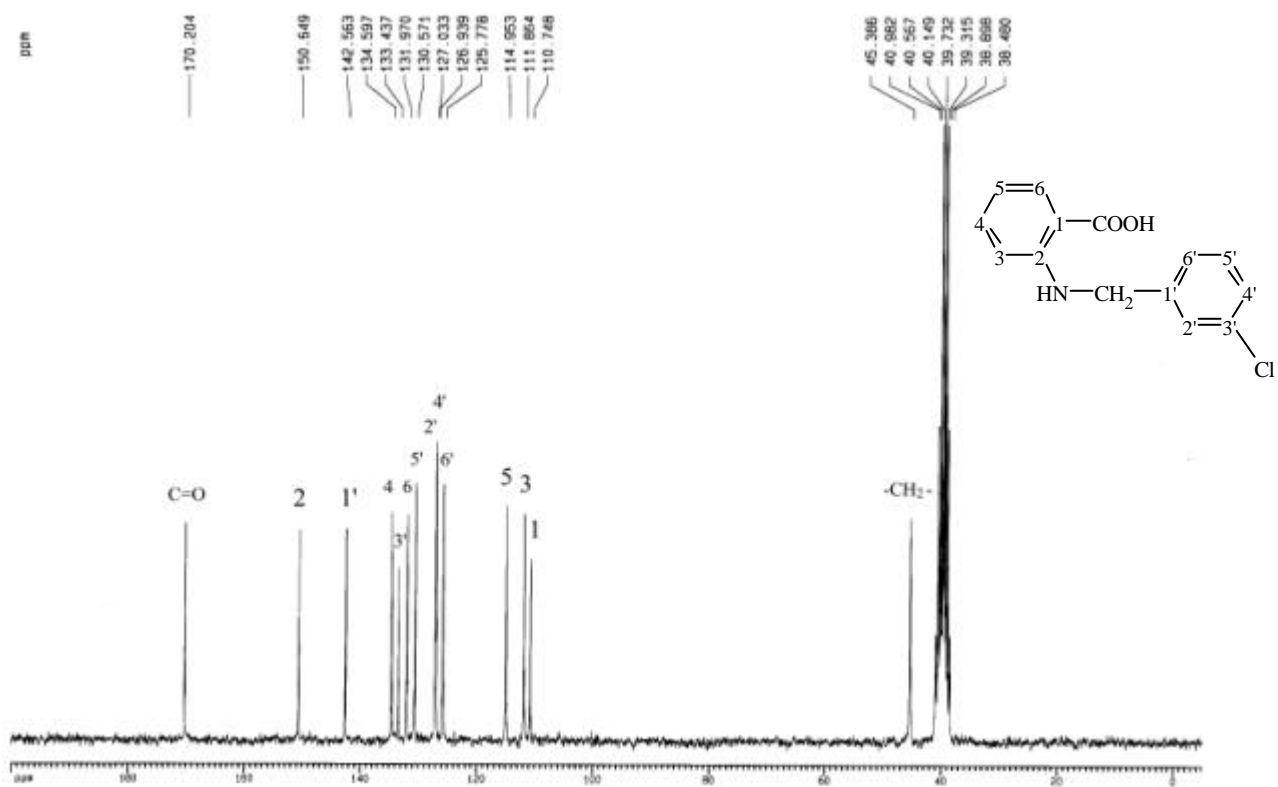


圖 67-4 $^{13}\text{C-NMR}$ (DMSO- d_6 , 50 MHz) spectrum of compound **67**

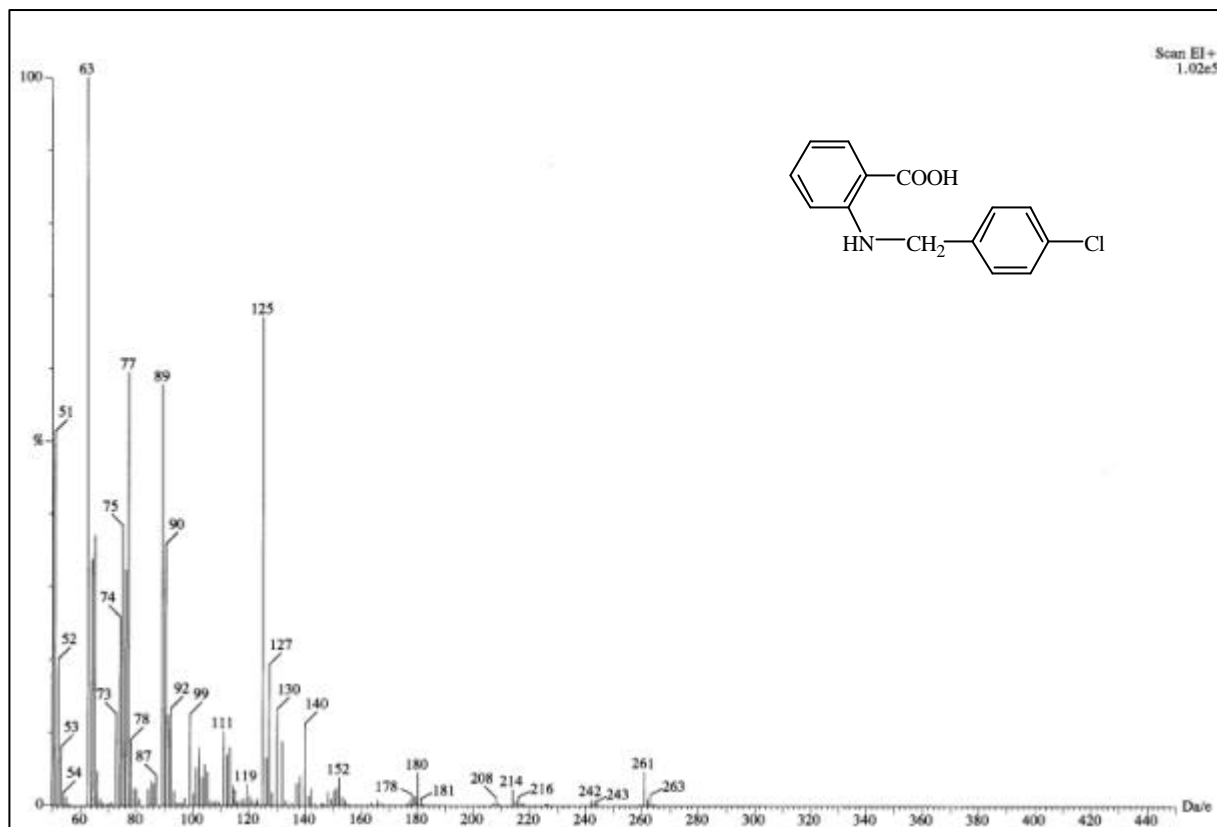


圖 68-1 MS spectrum of compound 68

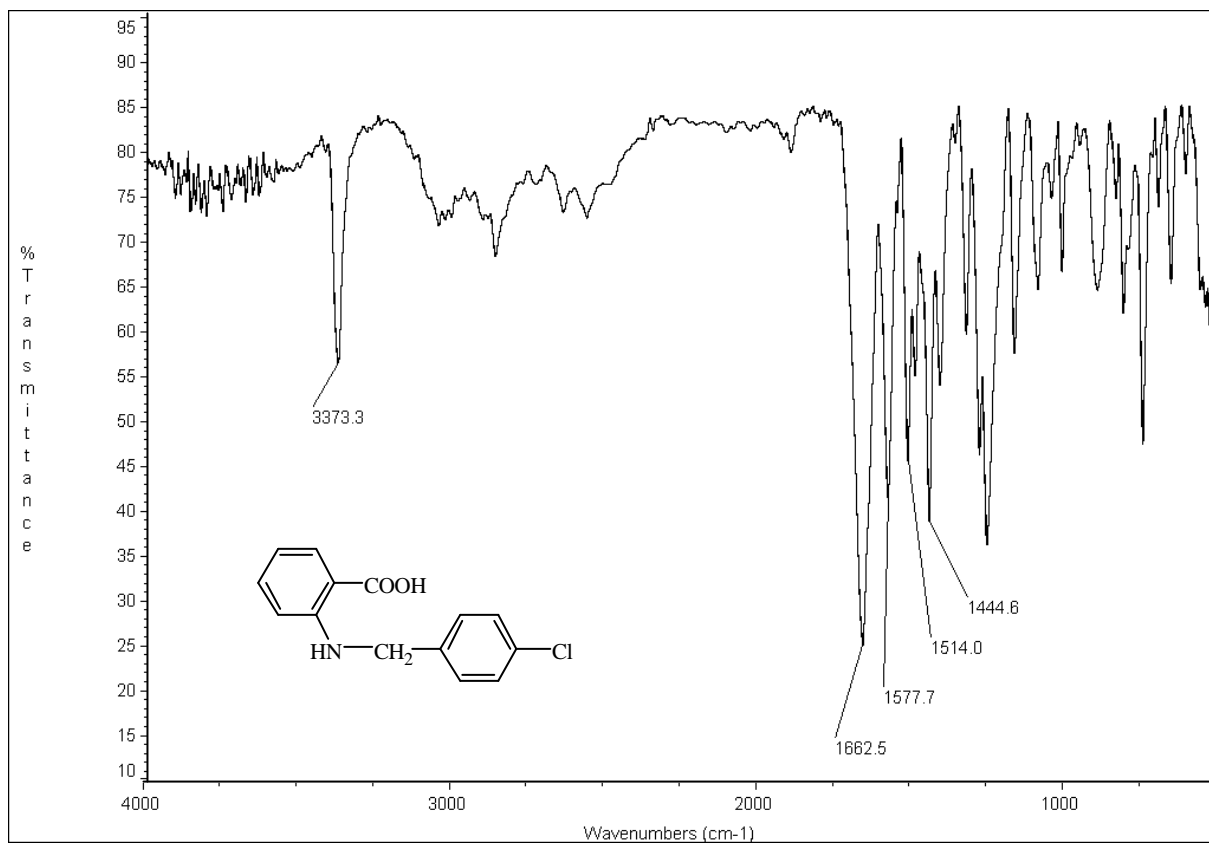


圖 68-2 IR (KBr) spectrum of compound 68

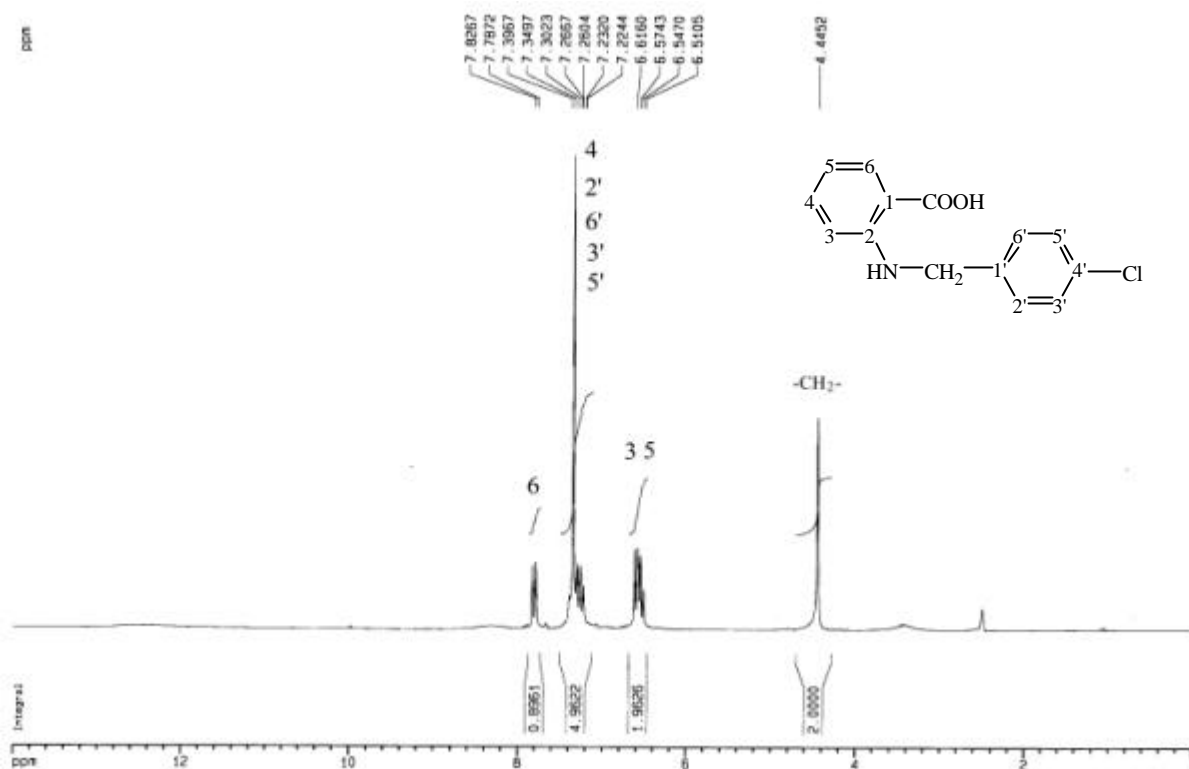


圖 68-3 $^1\text{H-NMR}$ ($\text{DMSO-}d_6$, 200 MHz) spectrum of compound **68**

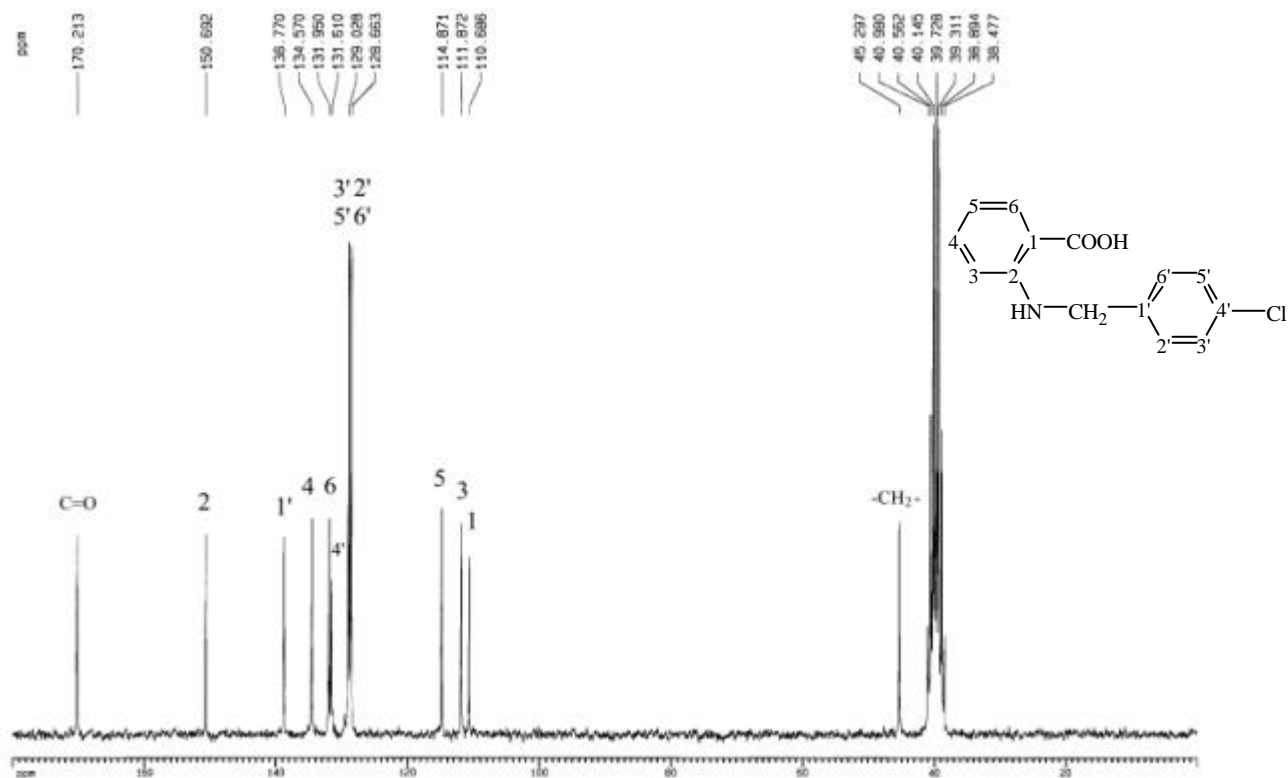


圖 68-4 $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$, 50 MHz) spectrum of compound **68**

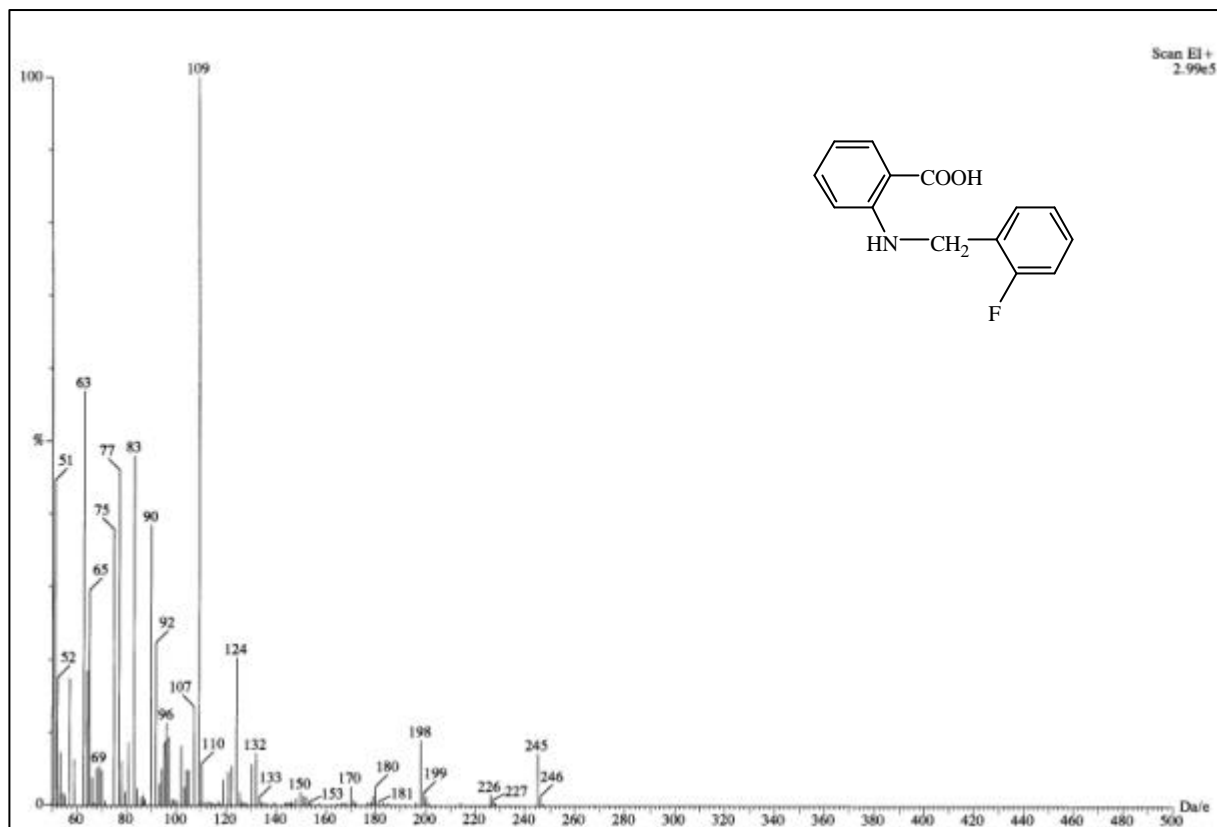


圖 69-1 MS spectrum of compound 69

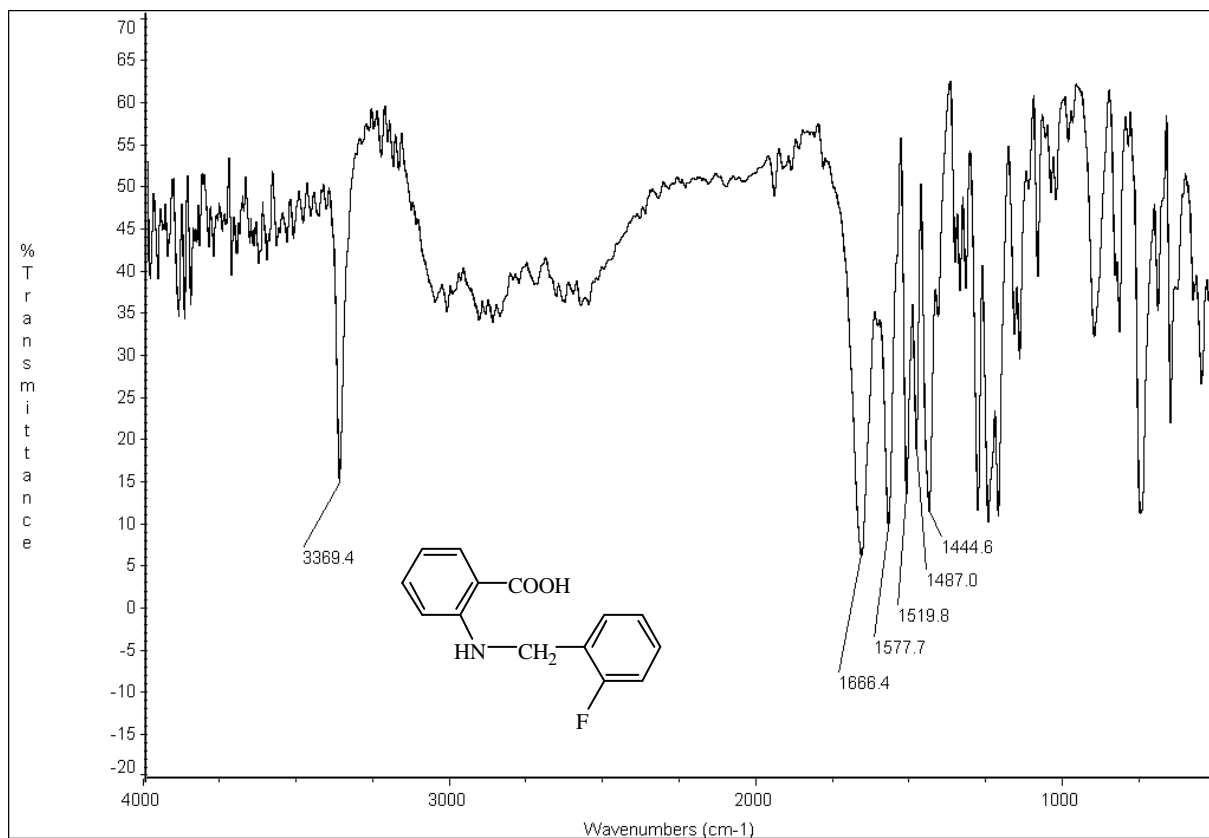


圖 69-2 IR (KBr) spectrum of compound 69

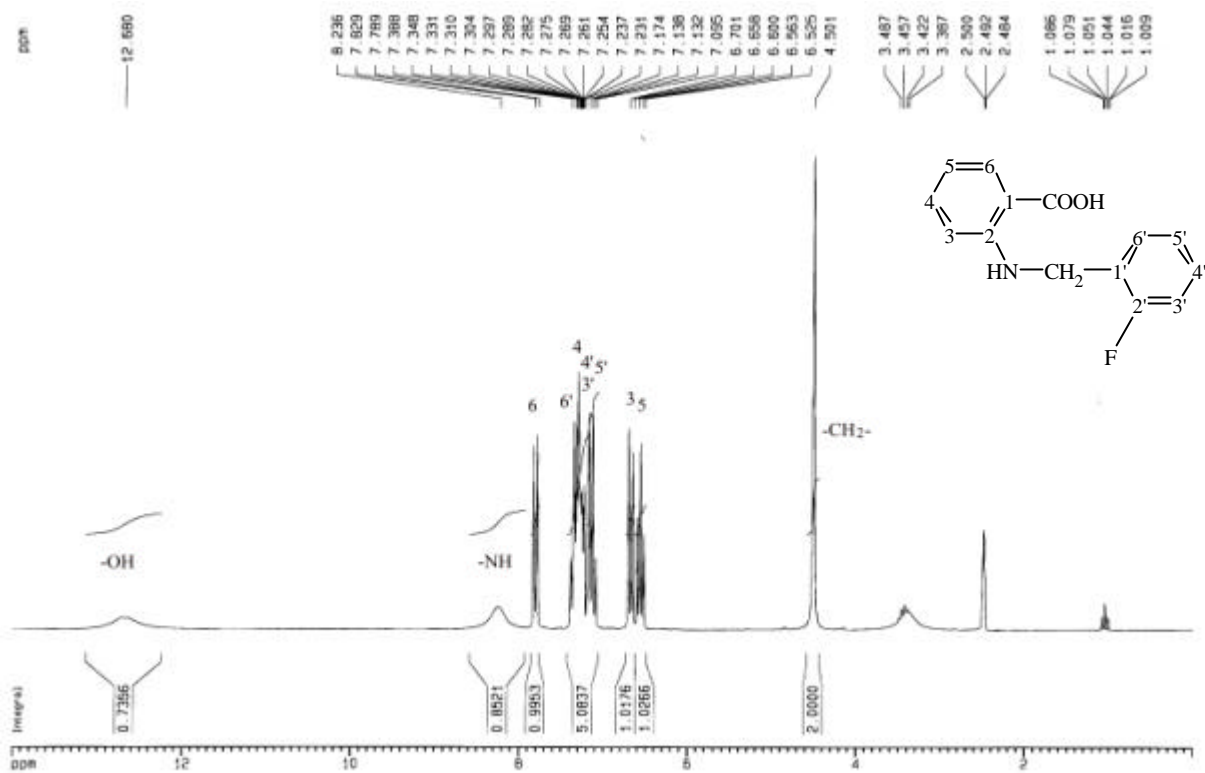


圖 69-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound **69**

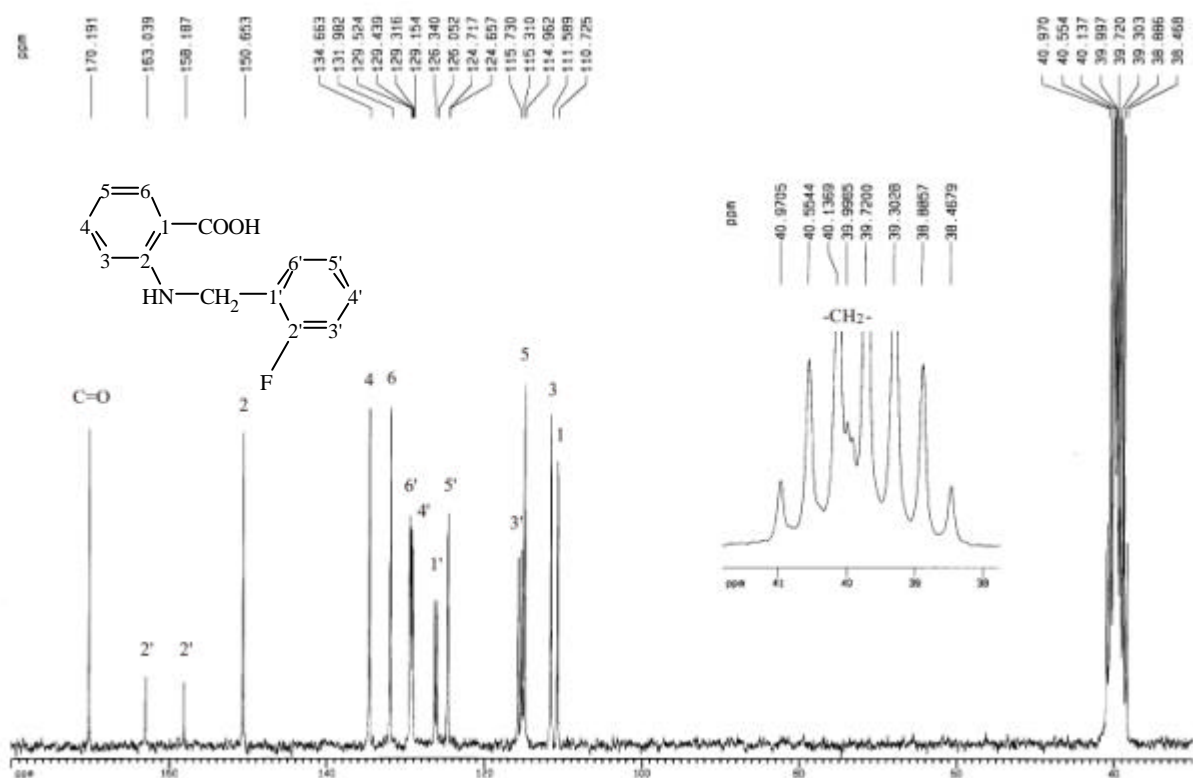


圖 69-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound **69**

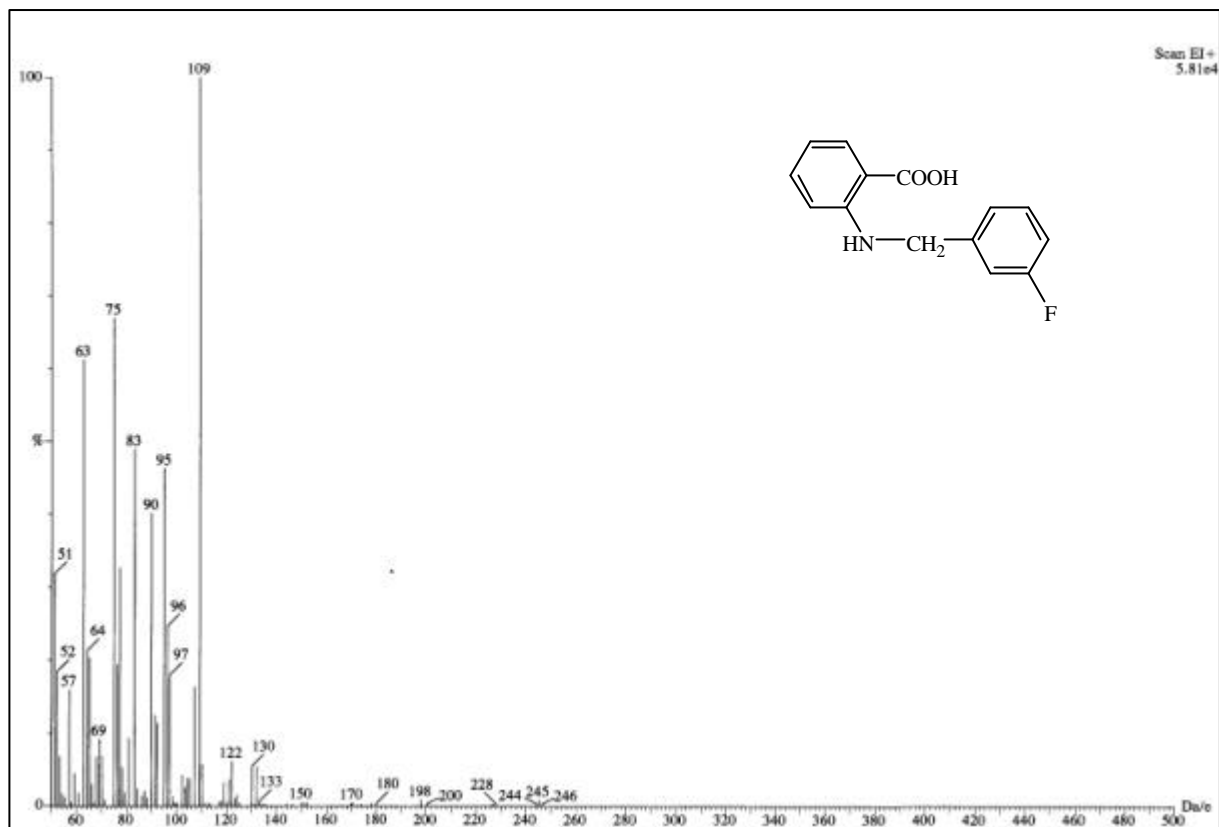


圖 70-1 MS spectrum of compound 70

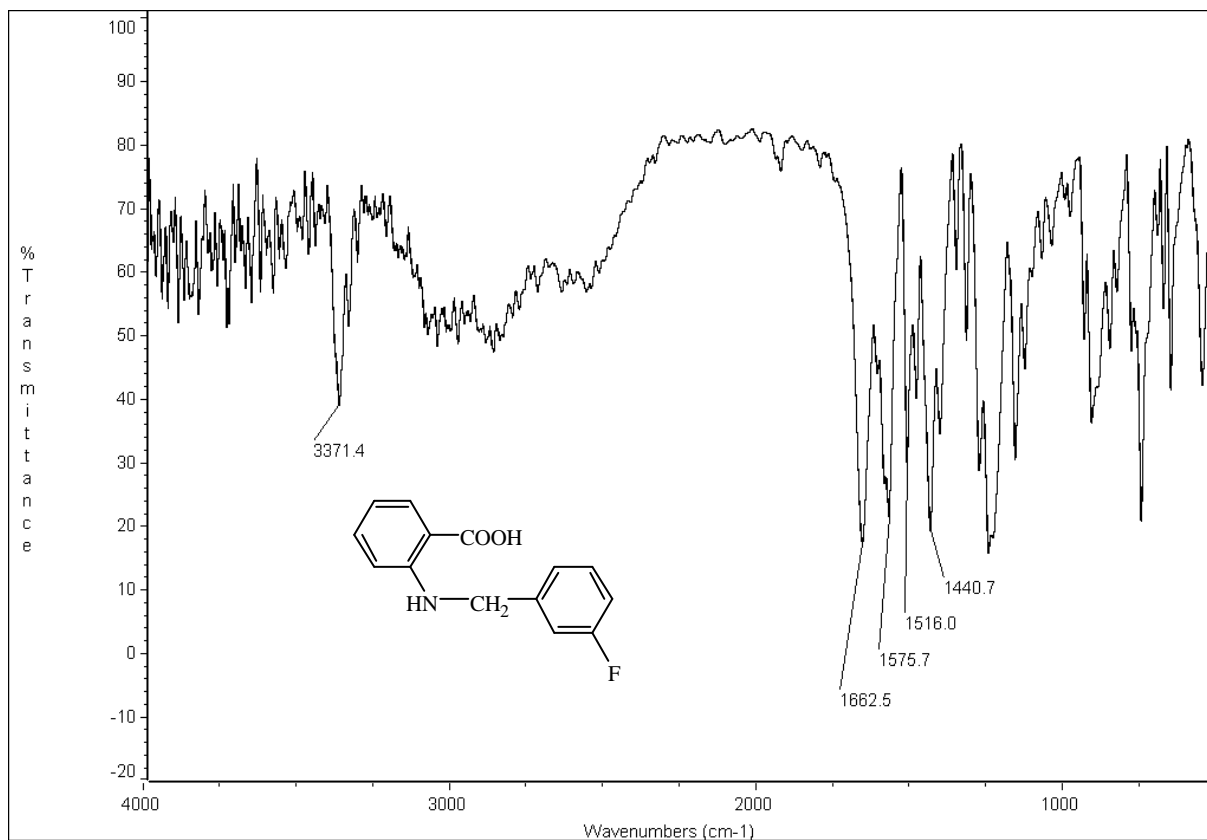


圖 70-2 IR (KBr) spectrum of compound 70

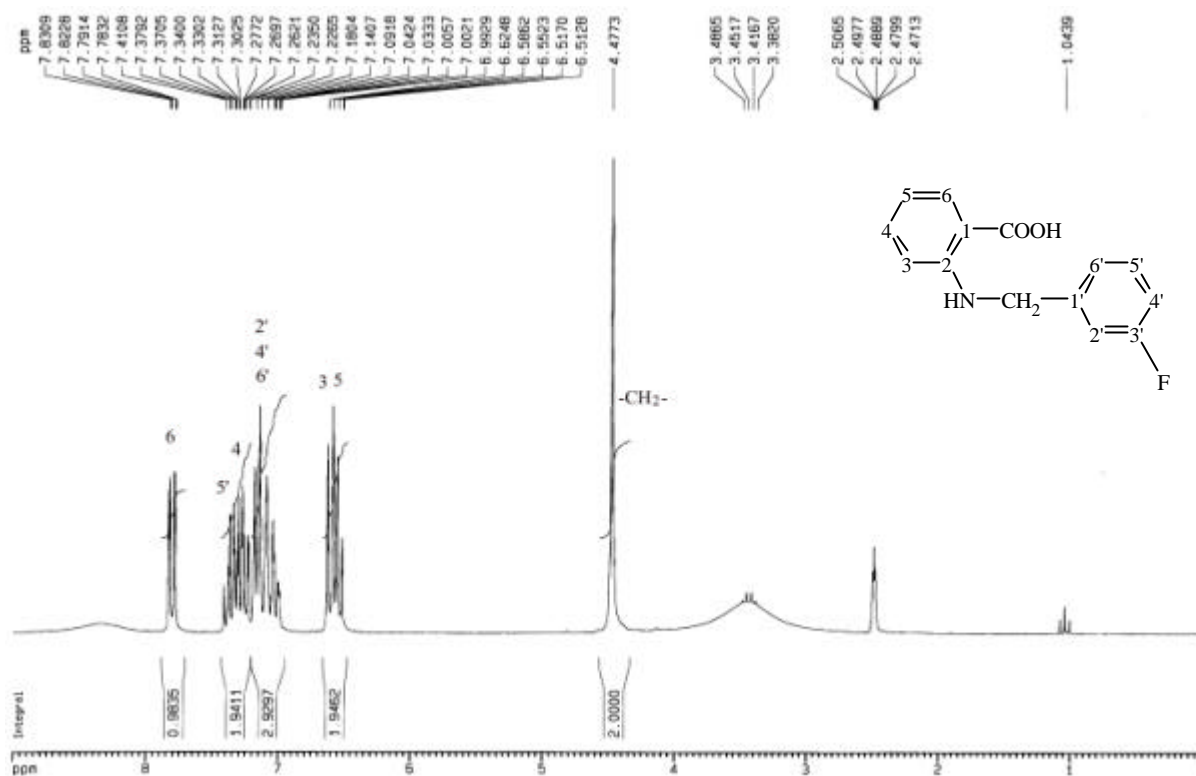


圖 70-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound **70**

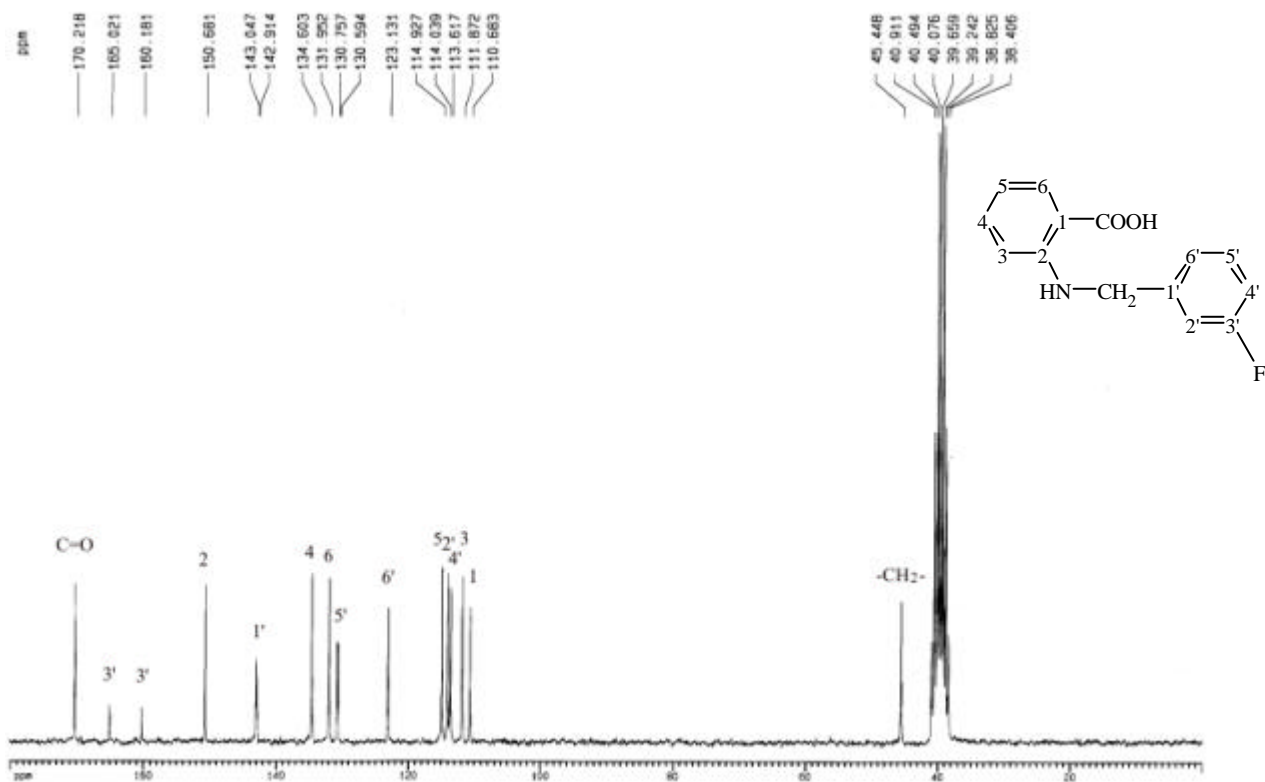


圖 70-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound **70**

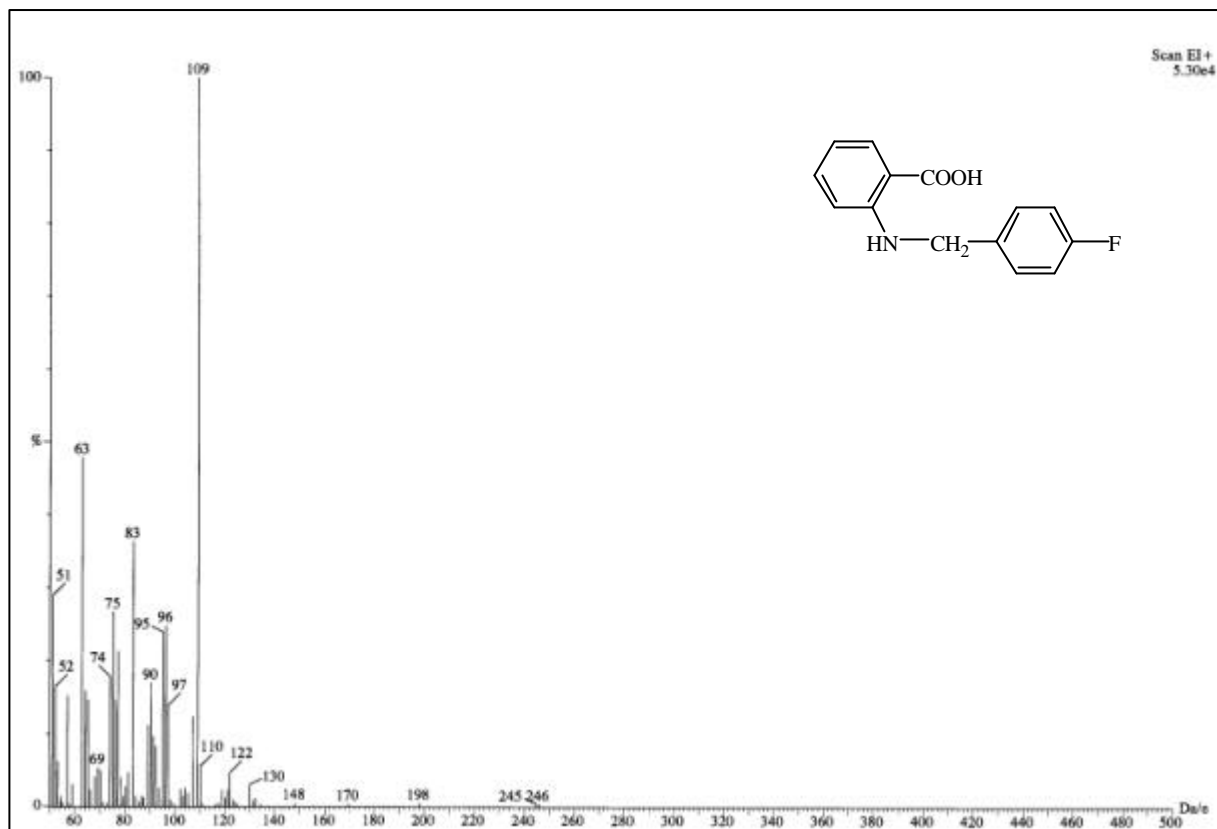


圖 71-1 MS spectrum of compound 71

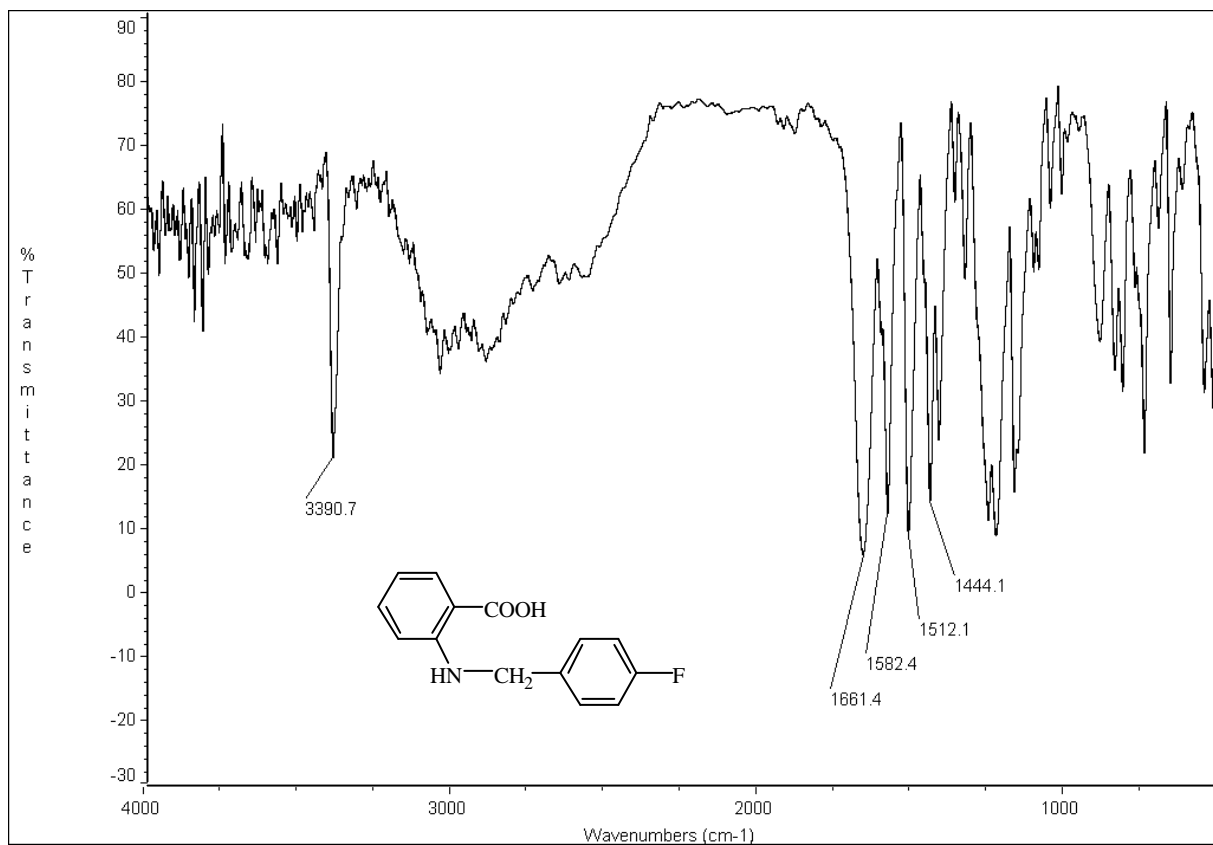


圖 71-2 IR (KBr) spectrum of compound 71

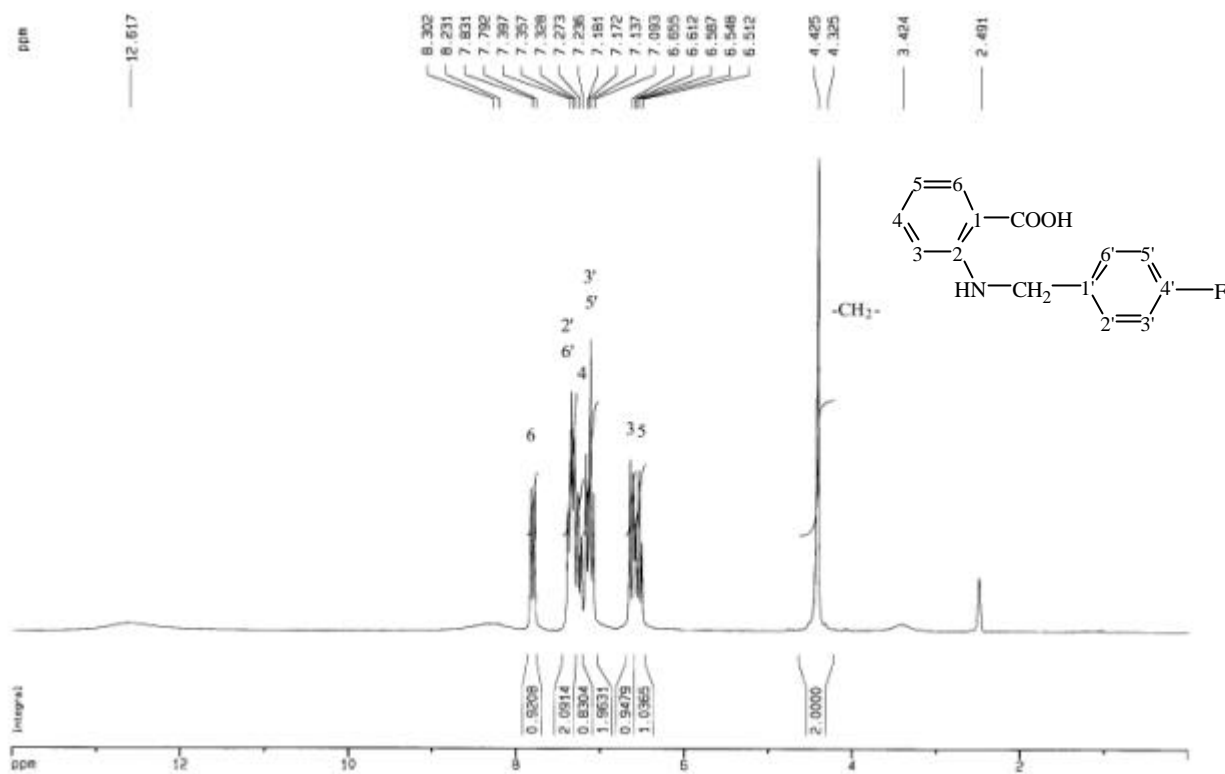


圖 71-3 $^1\text{H-NMR}$ ($\text{DMSO-}d_6$, 200 MHz) spectrum of compound **71**

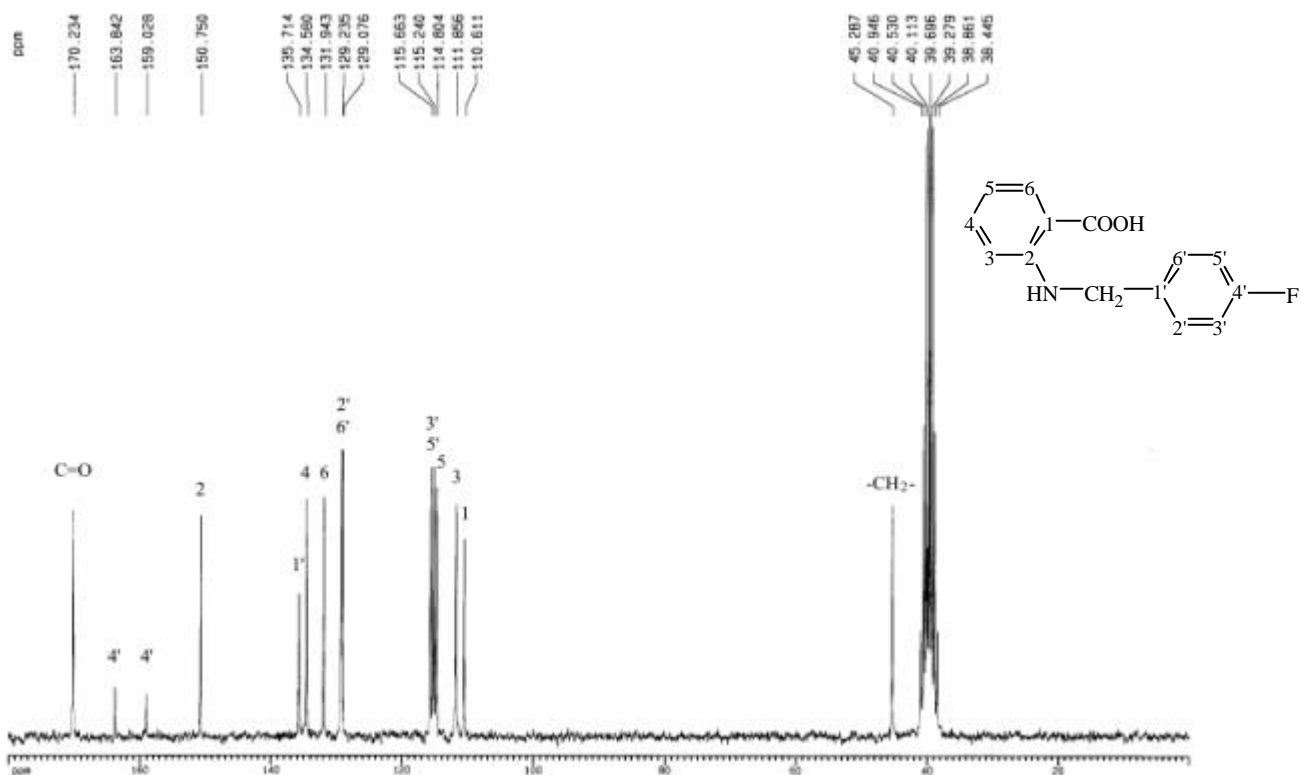


圖 71-4 $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$, 50 MHz) spectrum of compound **71**

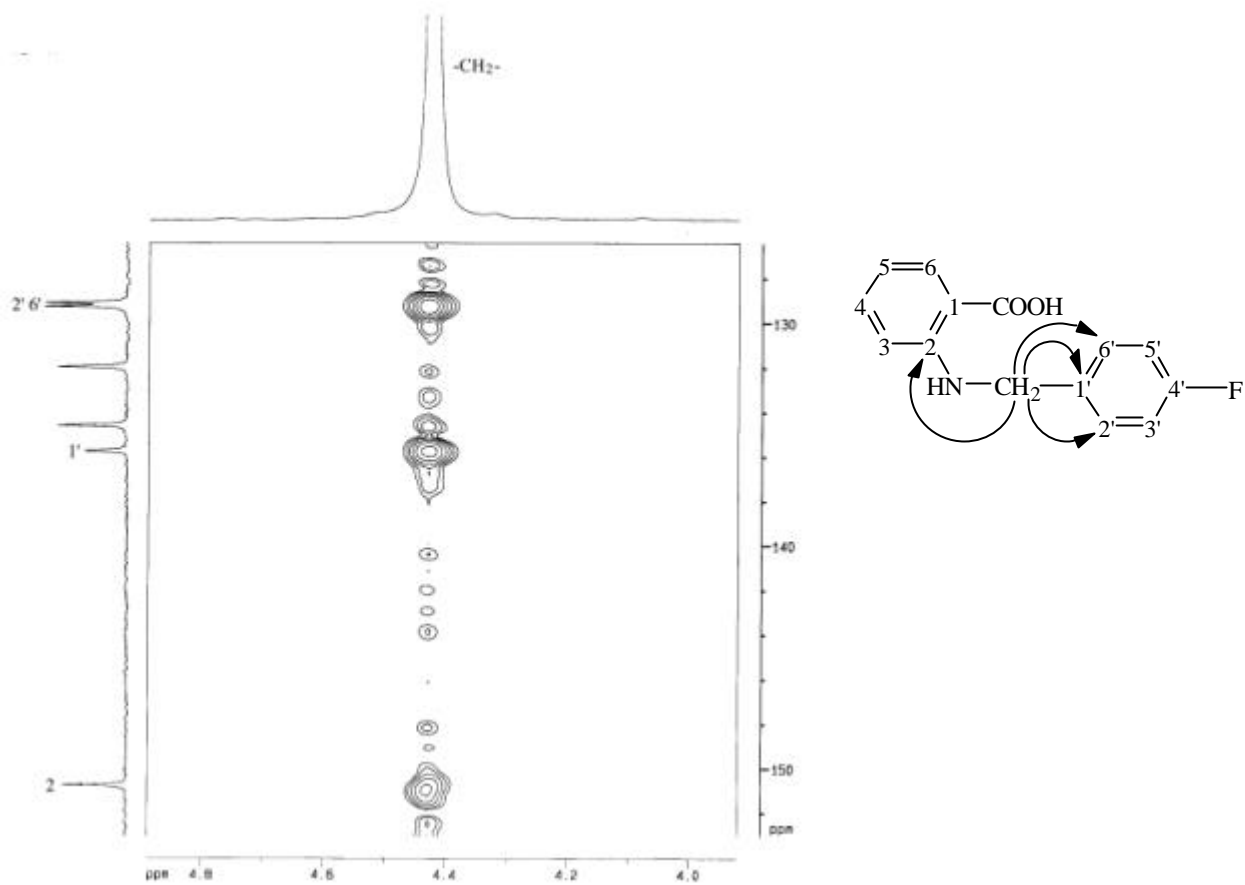


圖 71-5a HMBC (DMSO- d_6) spectrum of compound **71**

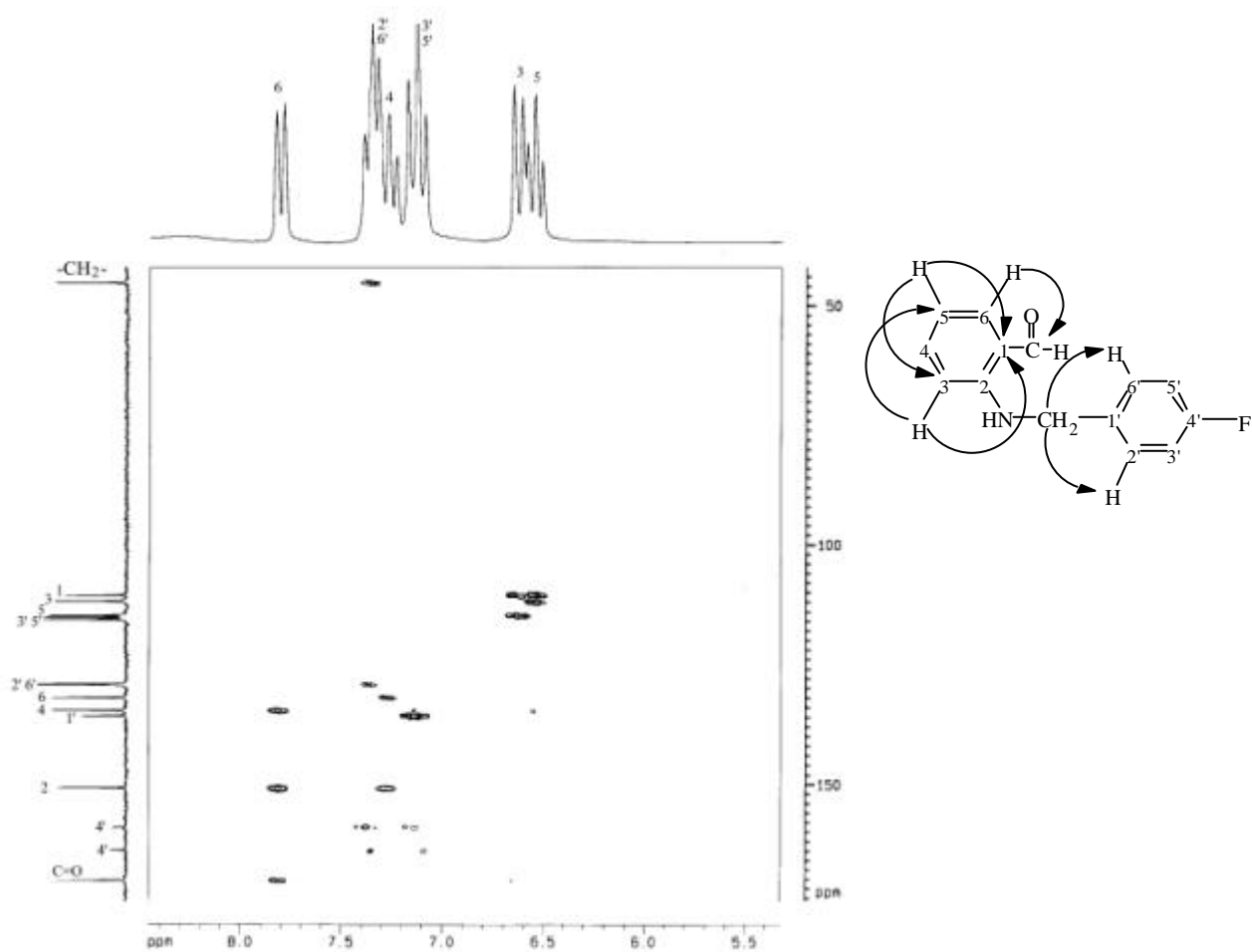


圖 71-5b HMBC (DMSO- d_6) spectrum of compound **71**

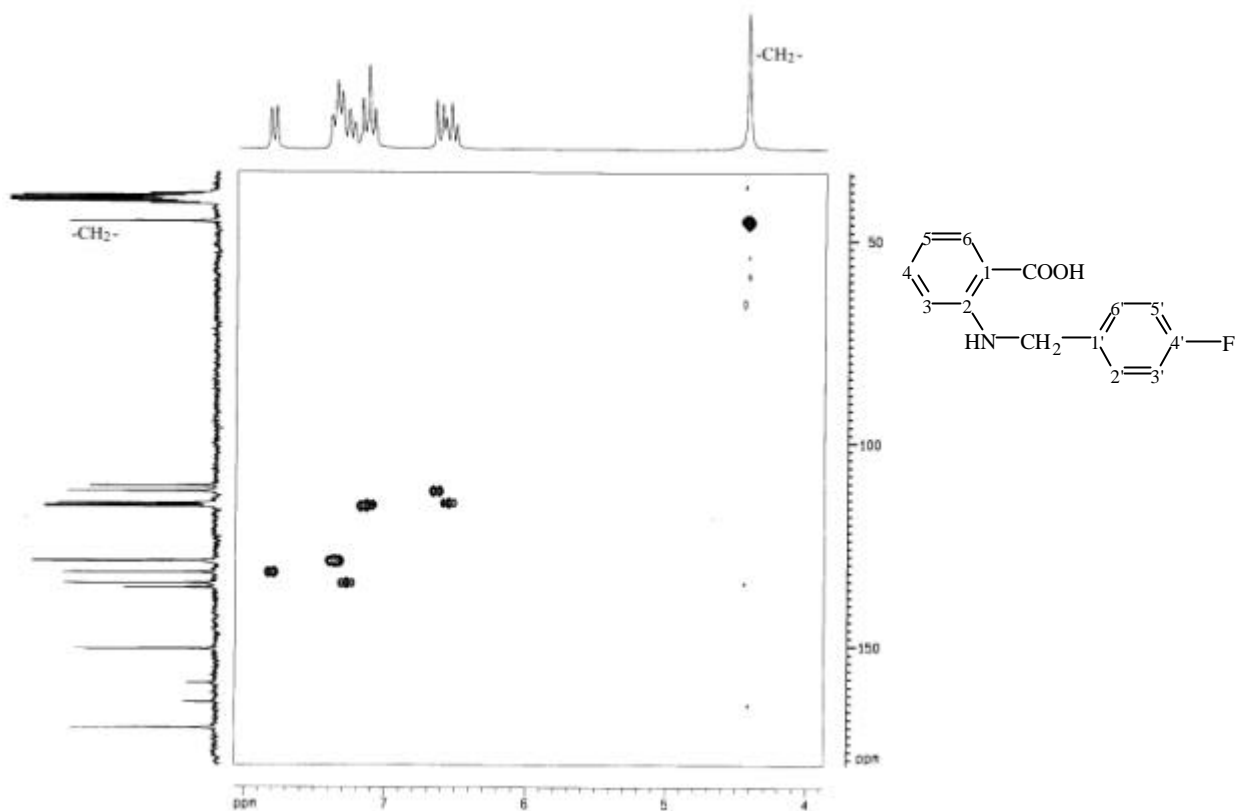


圖 71-6a HMQC (DMSO- d_6) spectrum of compound **71**

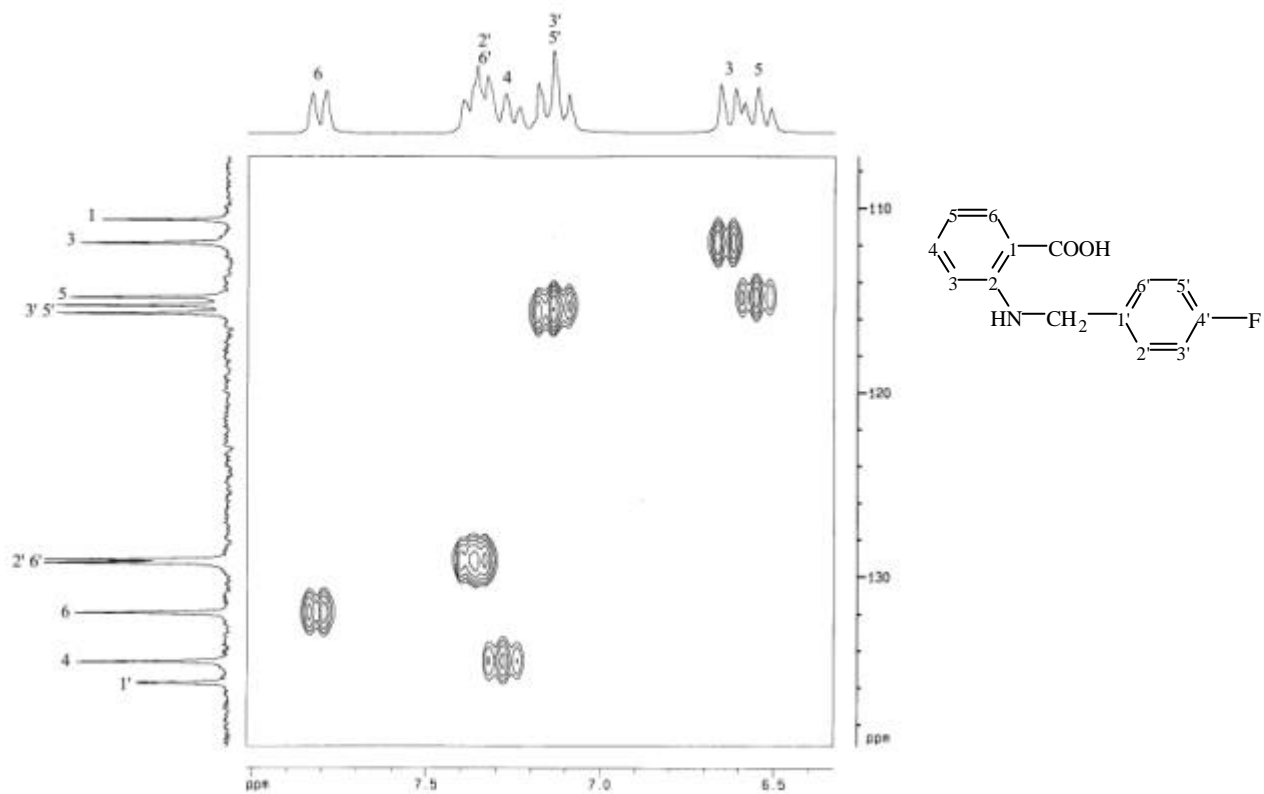


圖 71-6b HMQC (DMSO- d_6) spectrum of compound **71**

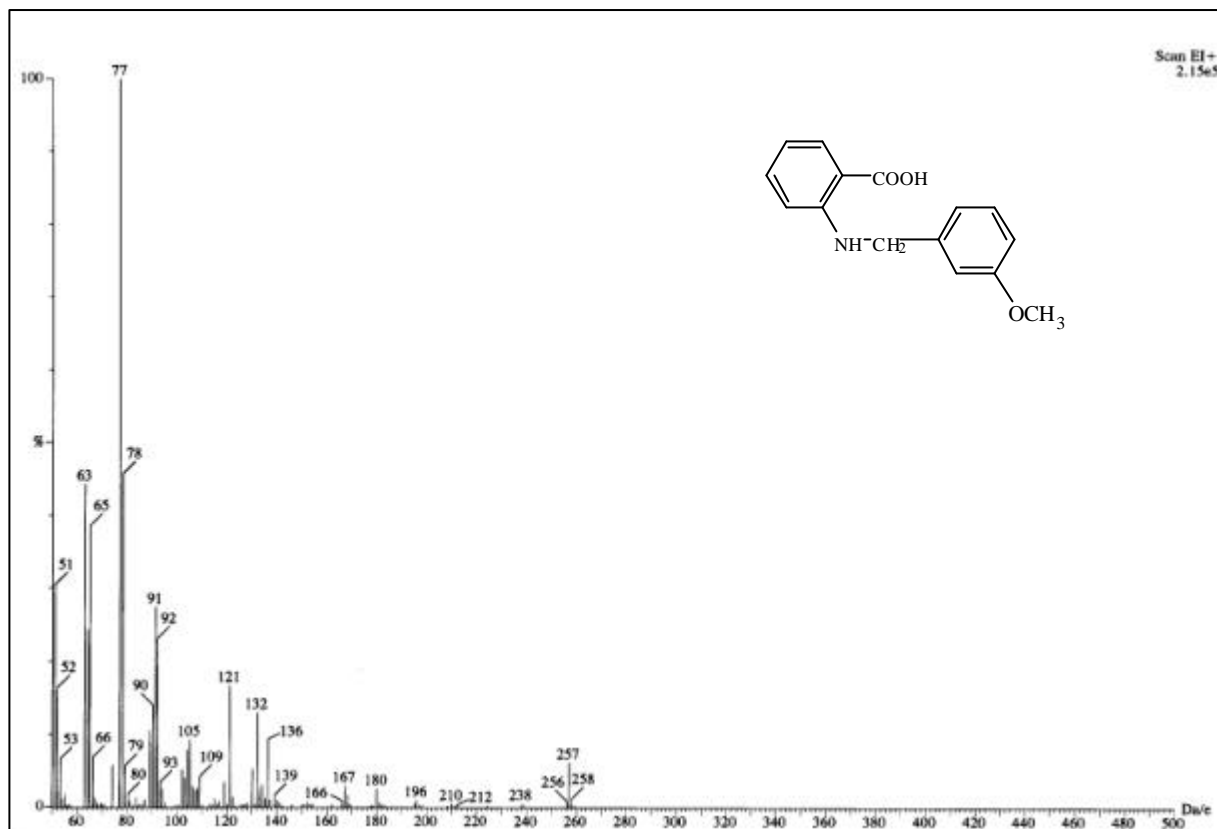


圖 72-1 MS spectrum of compound 72

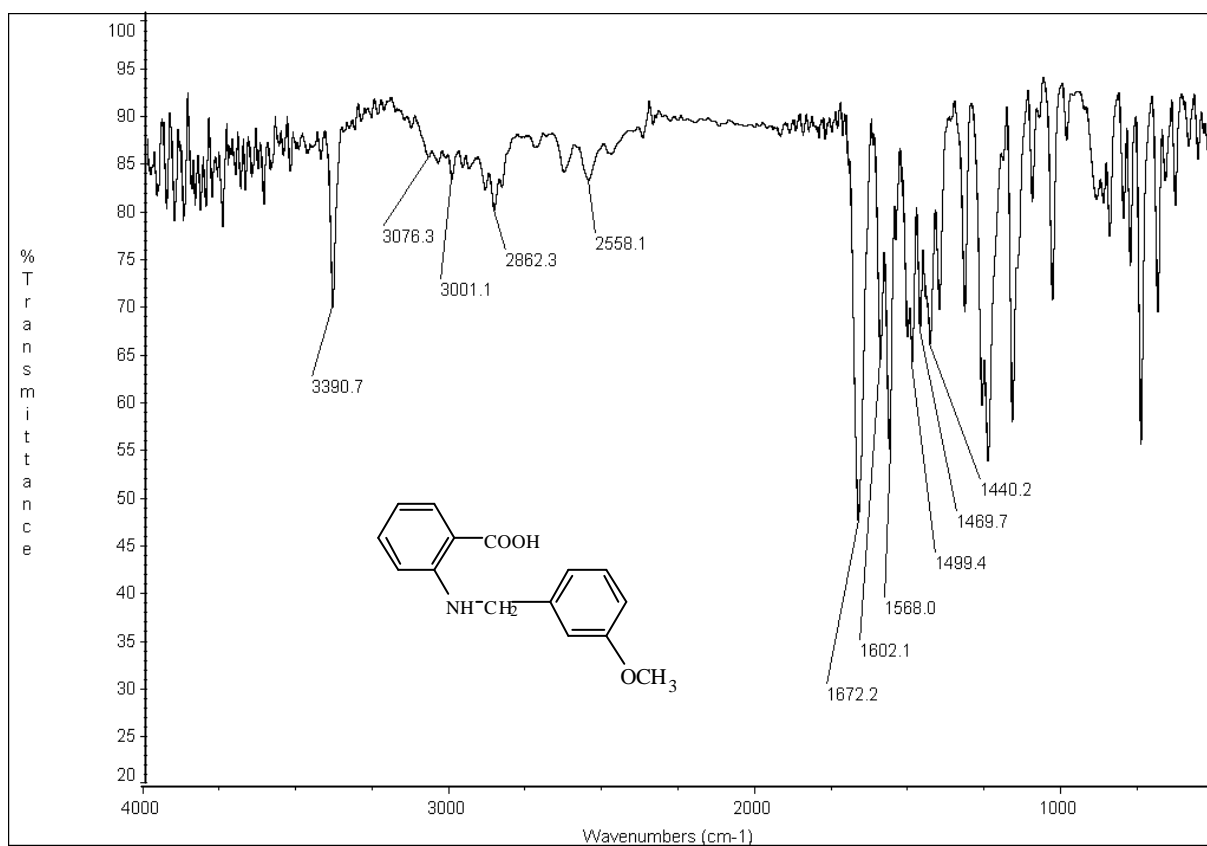


圖 72-2 IR (KBr) spectrum of compound 72

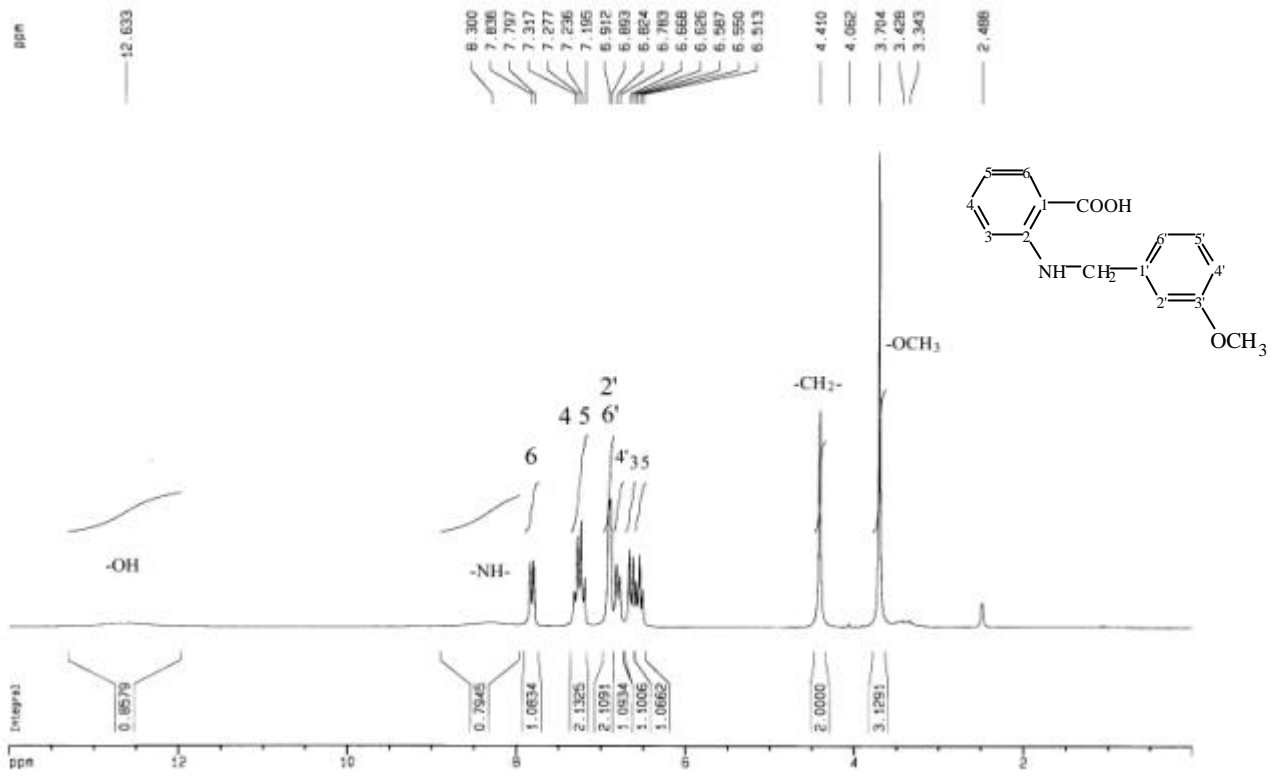


圖 72-3 $^1\text{H-NMR}$ (DMSO- d_6 , 200 MHz) spectrum of compound **72**

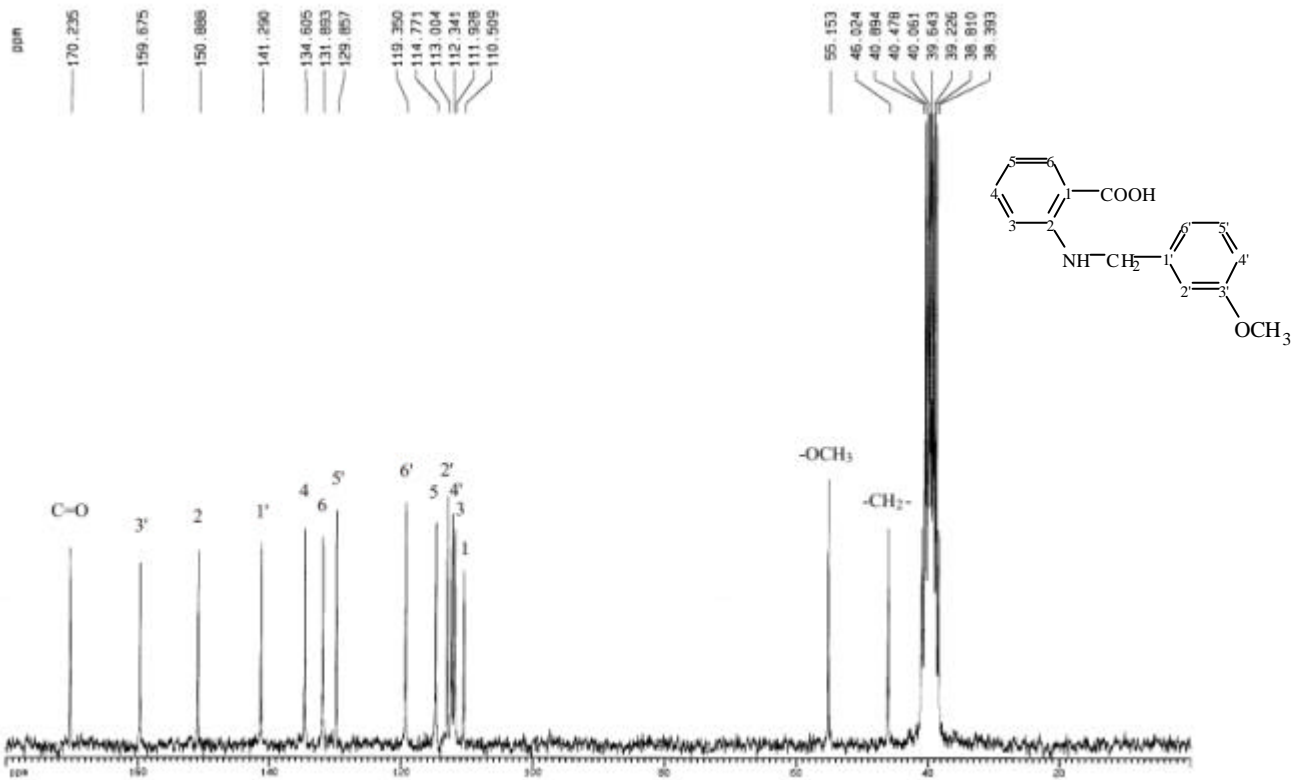


圖 72-4 $^{13}\text{C-NMR}$ (DMSO- d_6 , 50 MHz) spectrum of compound **72**

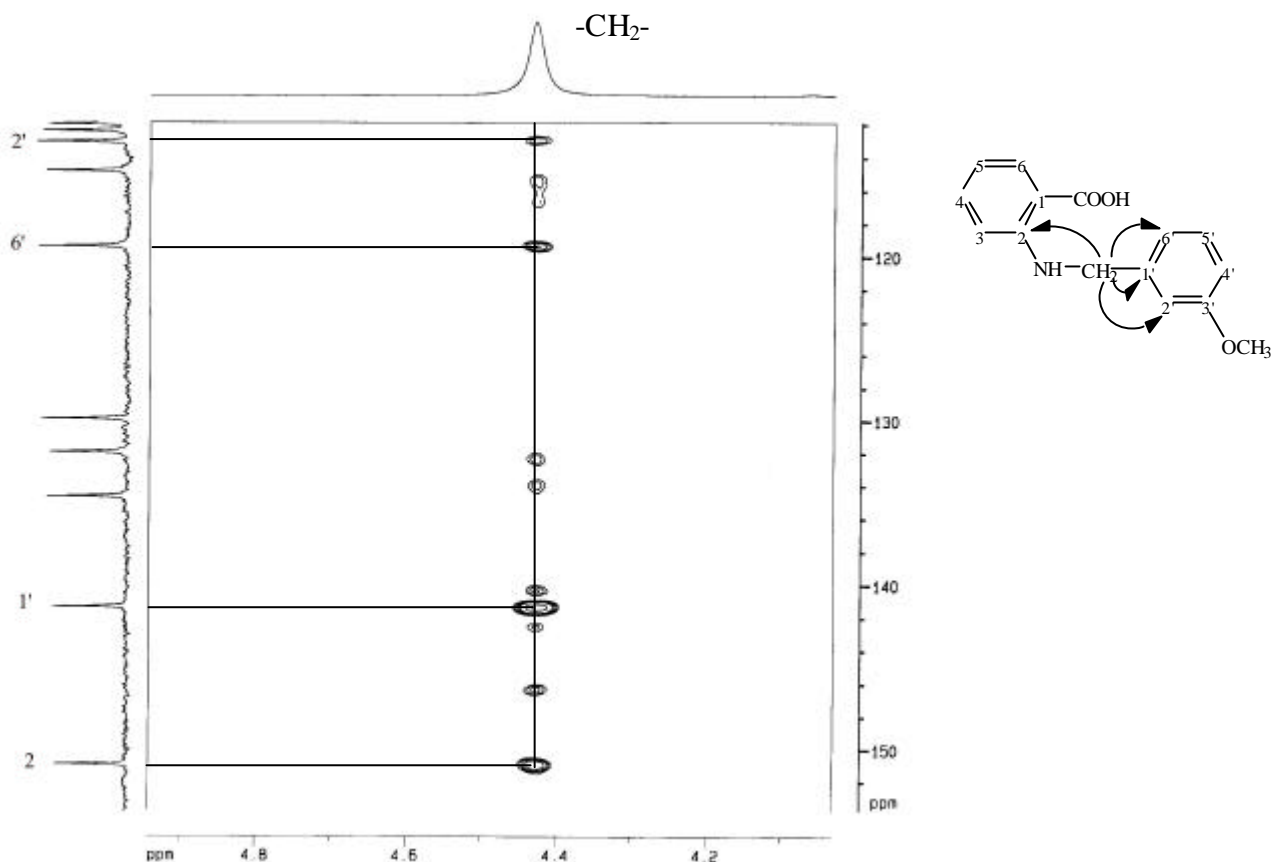


圖 72-5a HMBC (DMSO- d_6) spectrum of compound 72

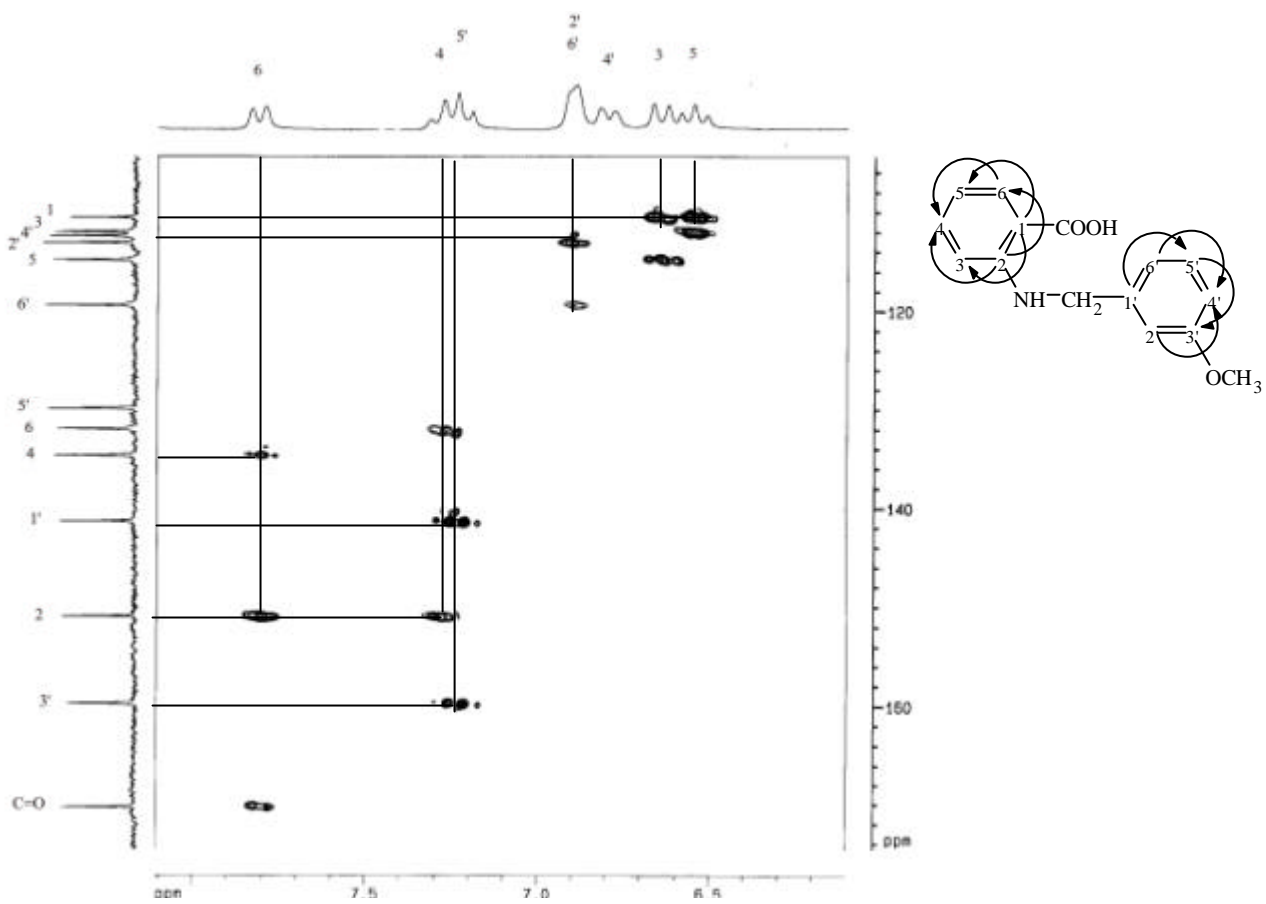


圖 72-5b HMBC (DMSO- d_6) spectrum of compound 72

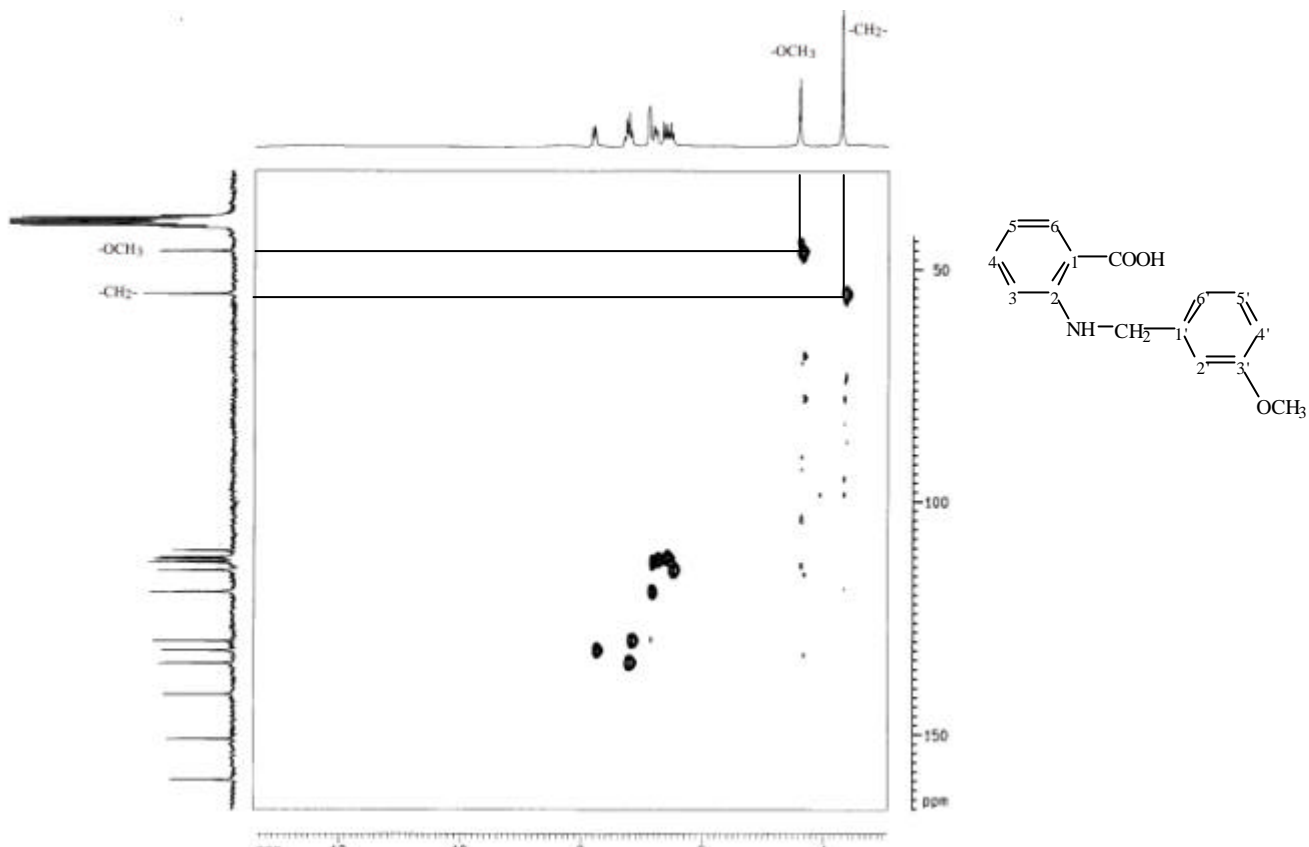


圖 72-6a HMQC (DMSO- d_6) spectrum of compound 72

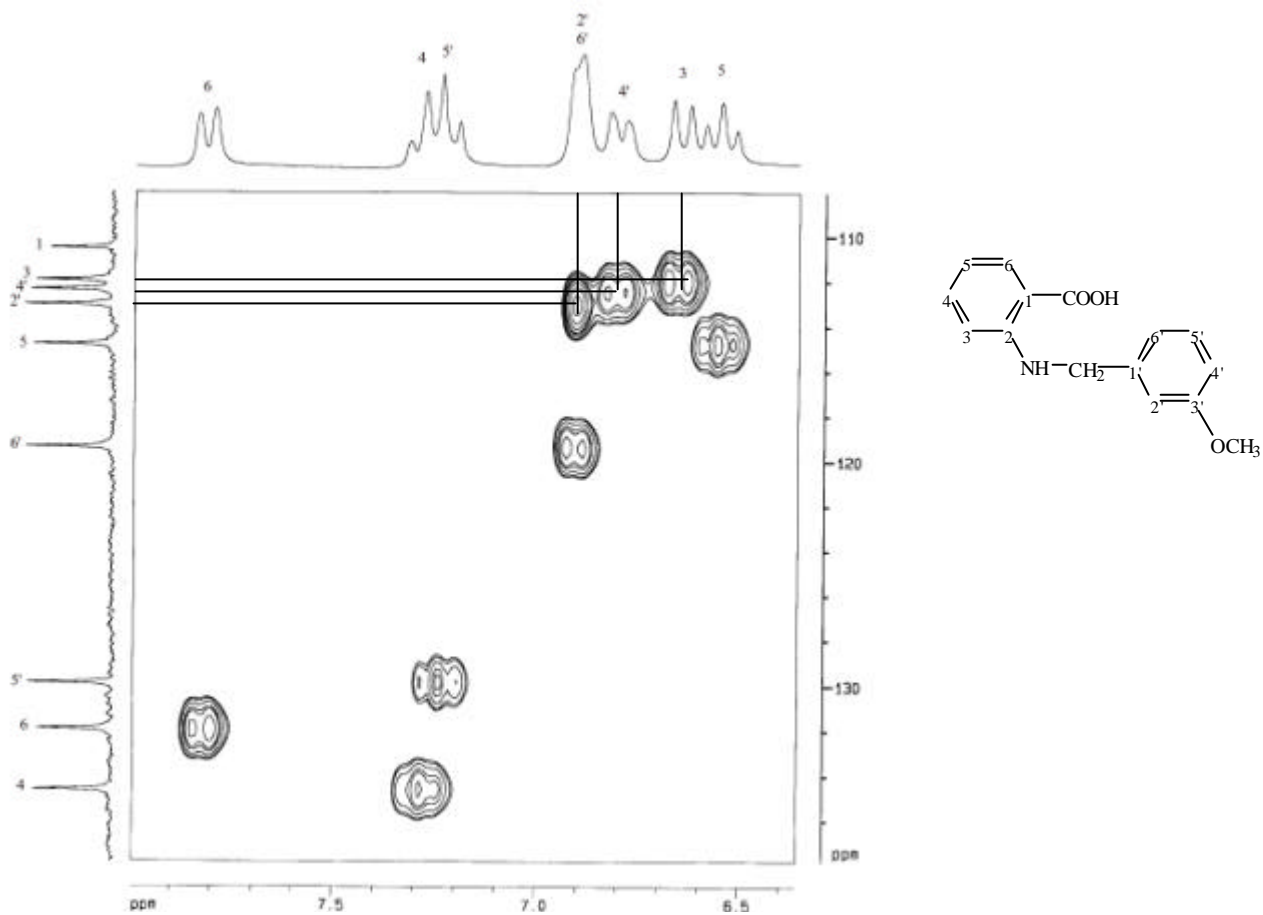


圖 72-6b HMQC (DMSO- d_6) spectrum of compound 72

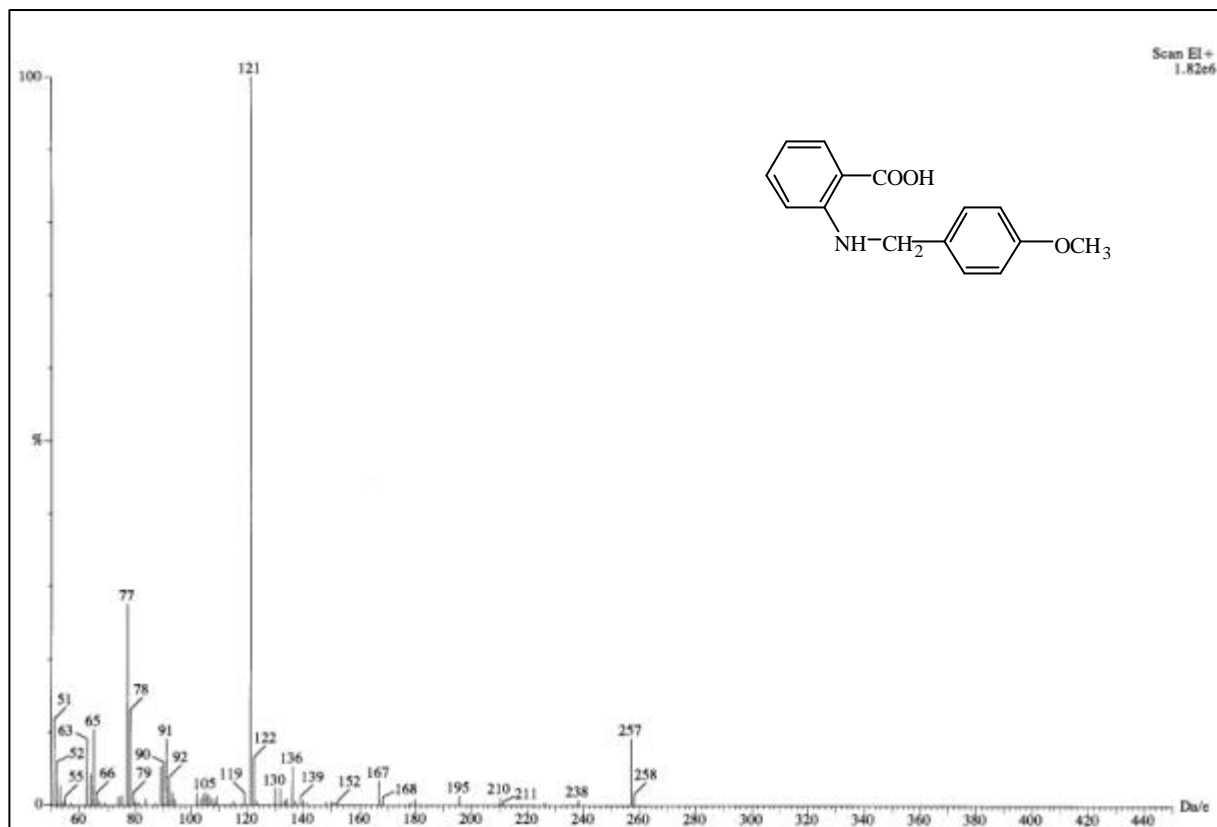


圖 73-1 MS spectrum of compound 73

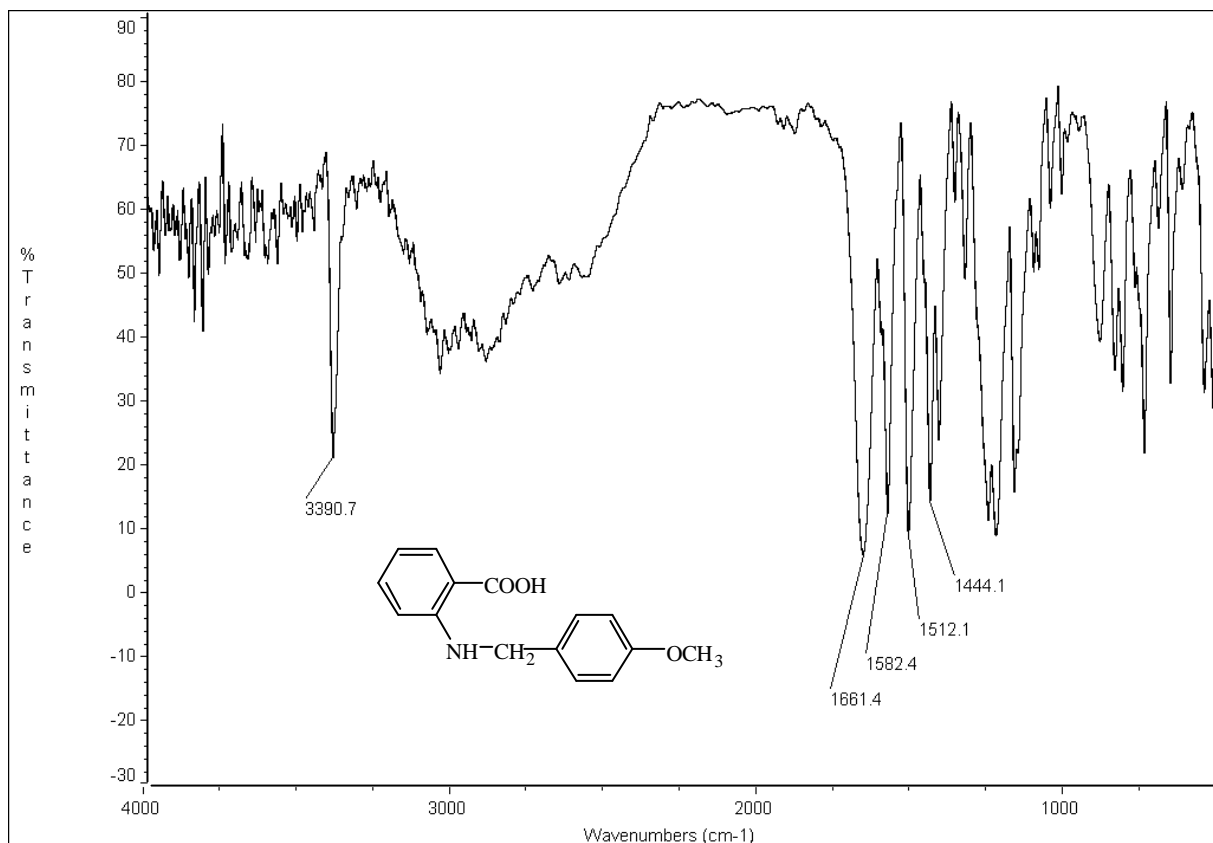


圖 73-2 IR (KBr) spectrum of compound 73

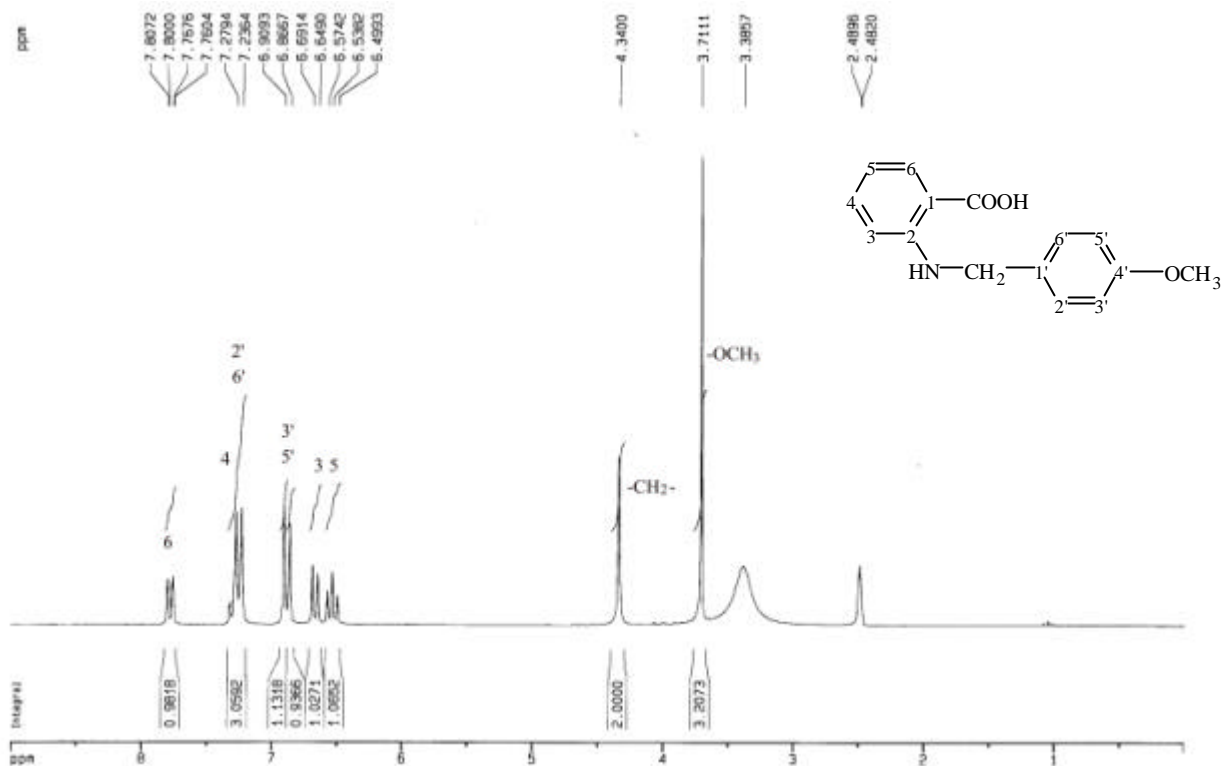


圖 73-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound **73**

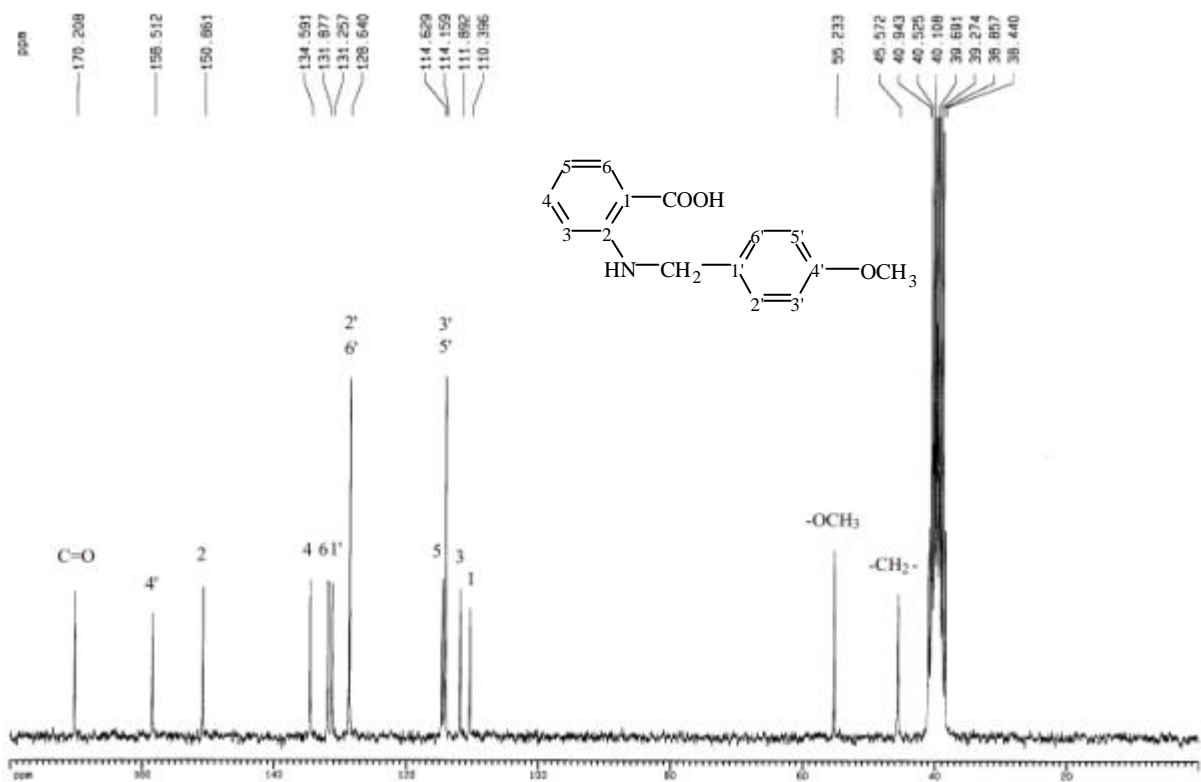


圖 73-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound **73**

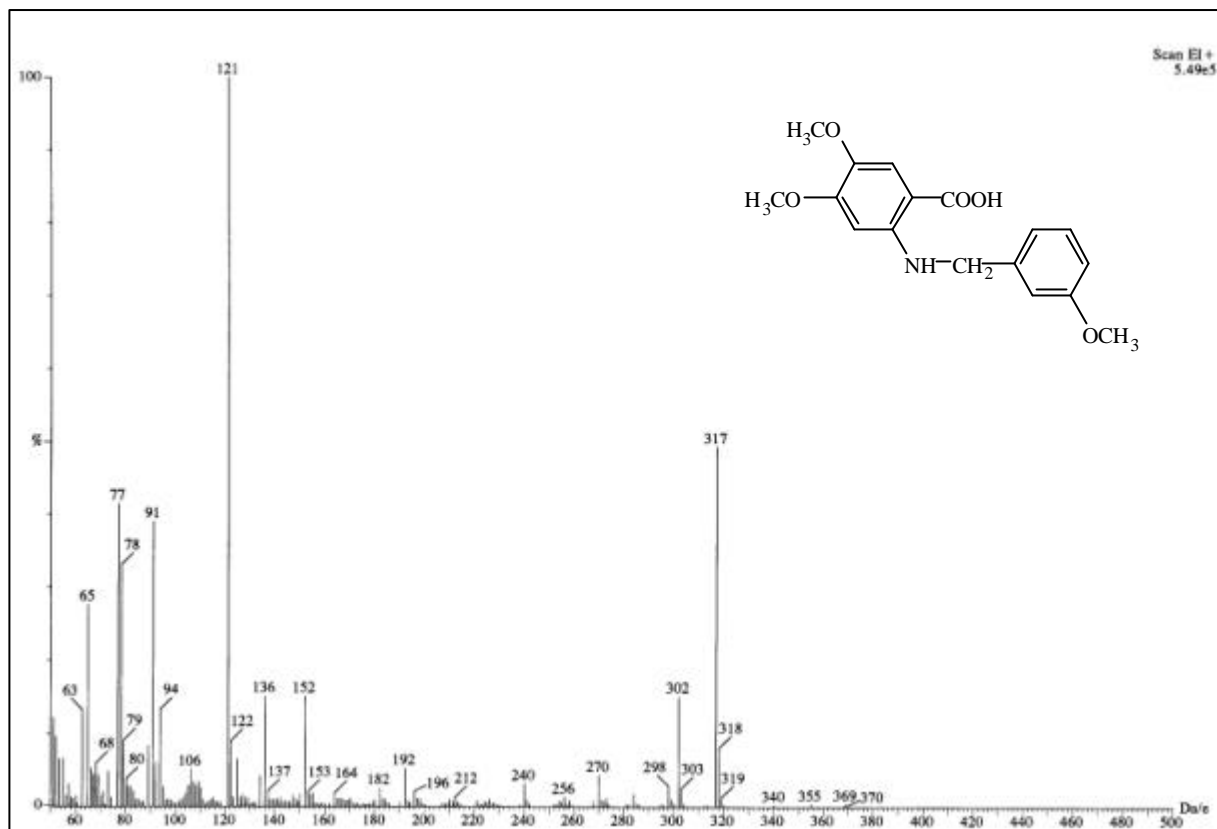


圖 74-1 MS spectrum of compound 74

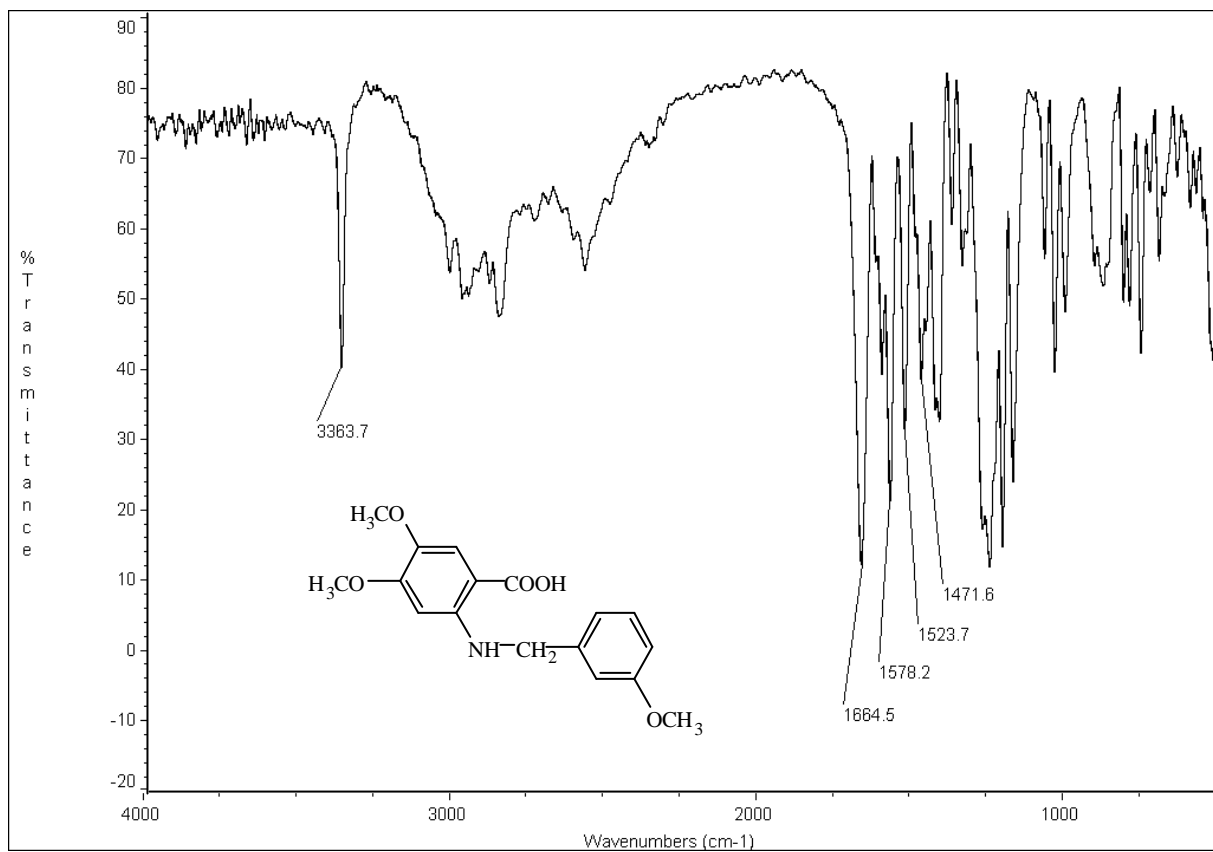


圖 74-2 IR (KBr) spectrum of compound 74

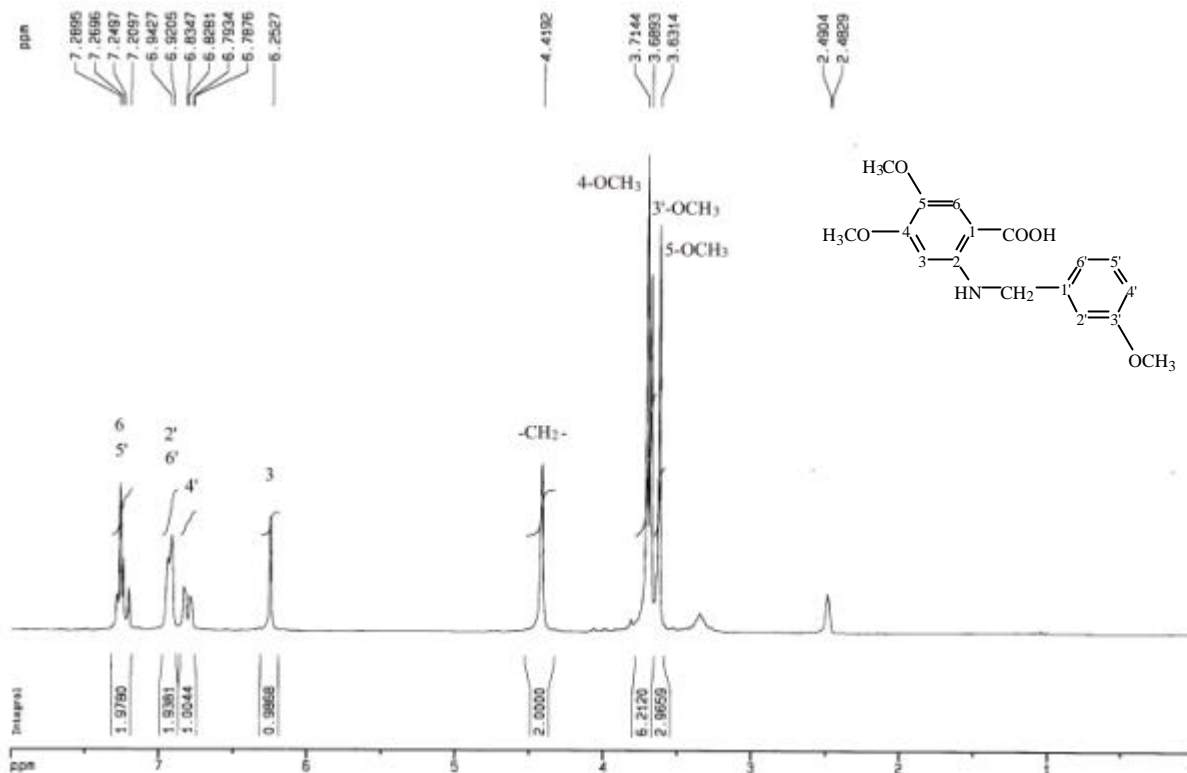


圖 74-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound 74

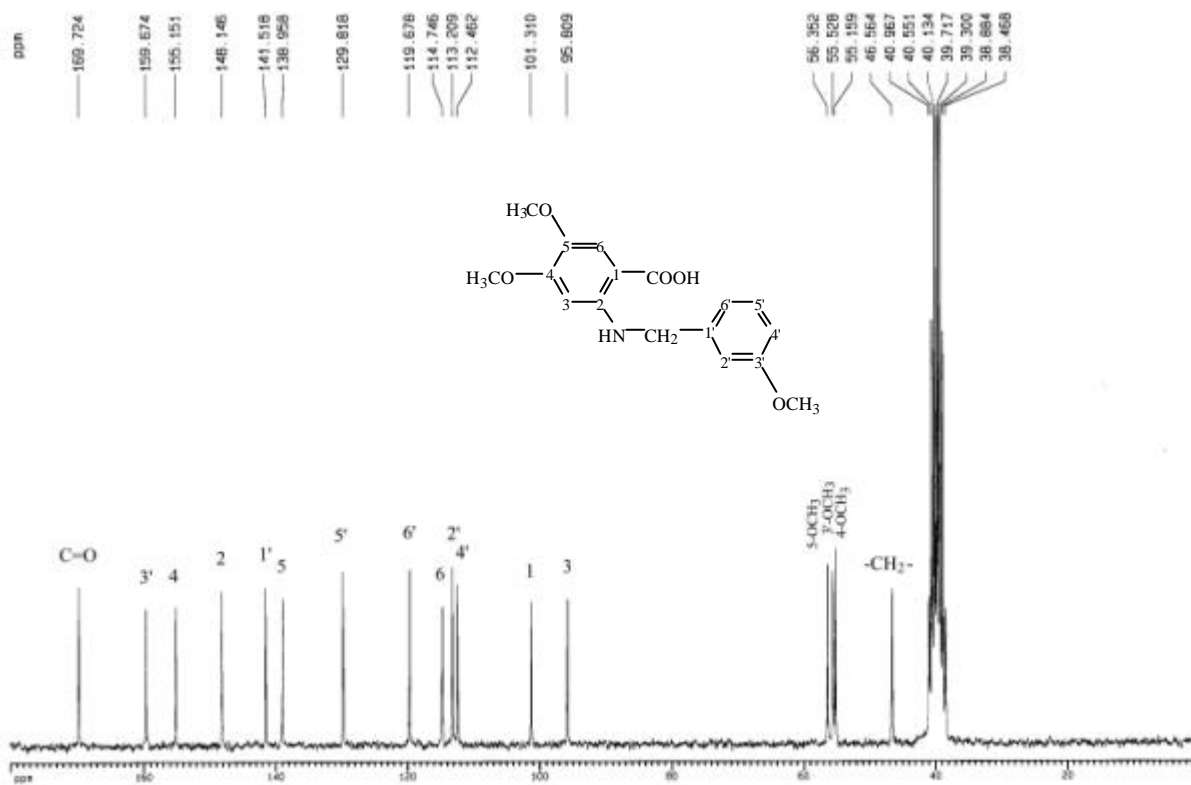


圖 74-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound 74

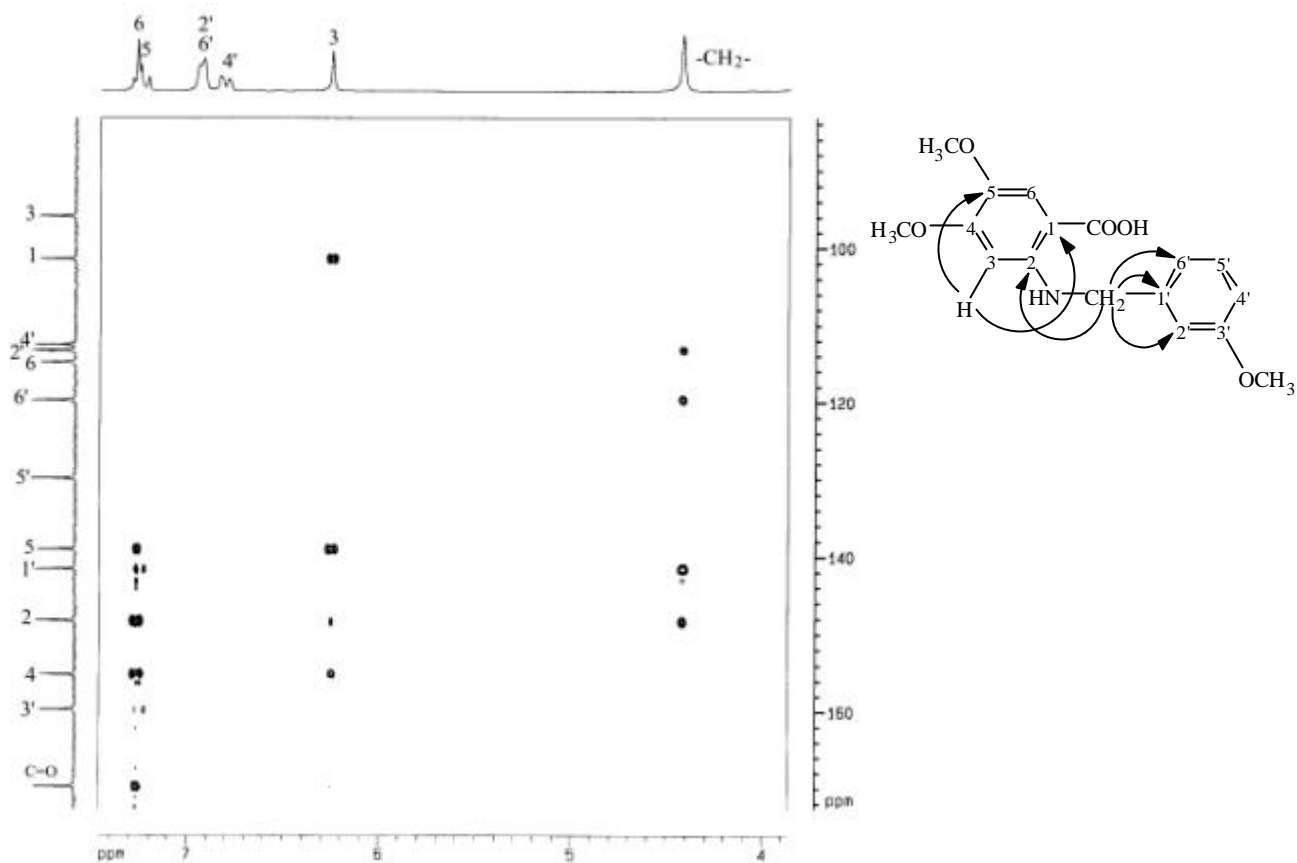


圖 74-5 HMBC (DMSO- d_6) spectrum of compound **74**

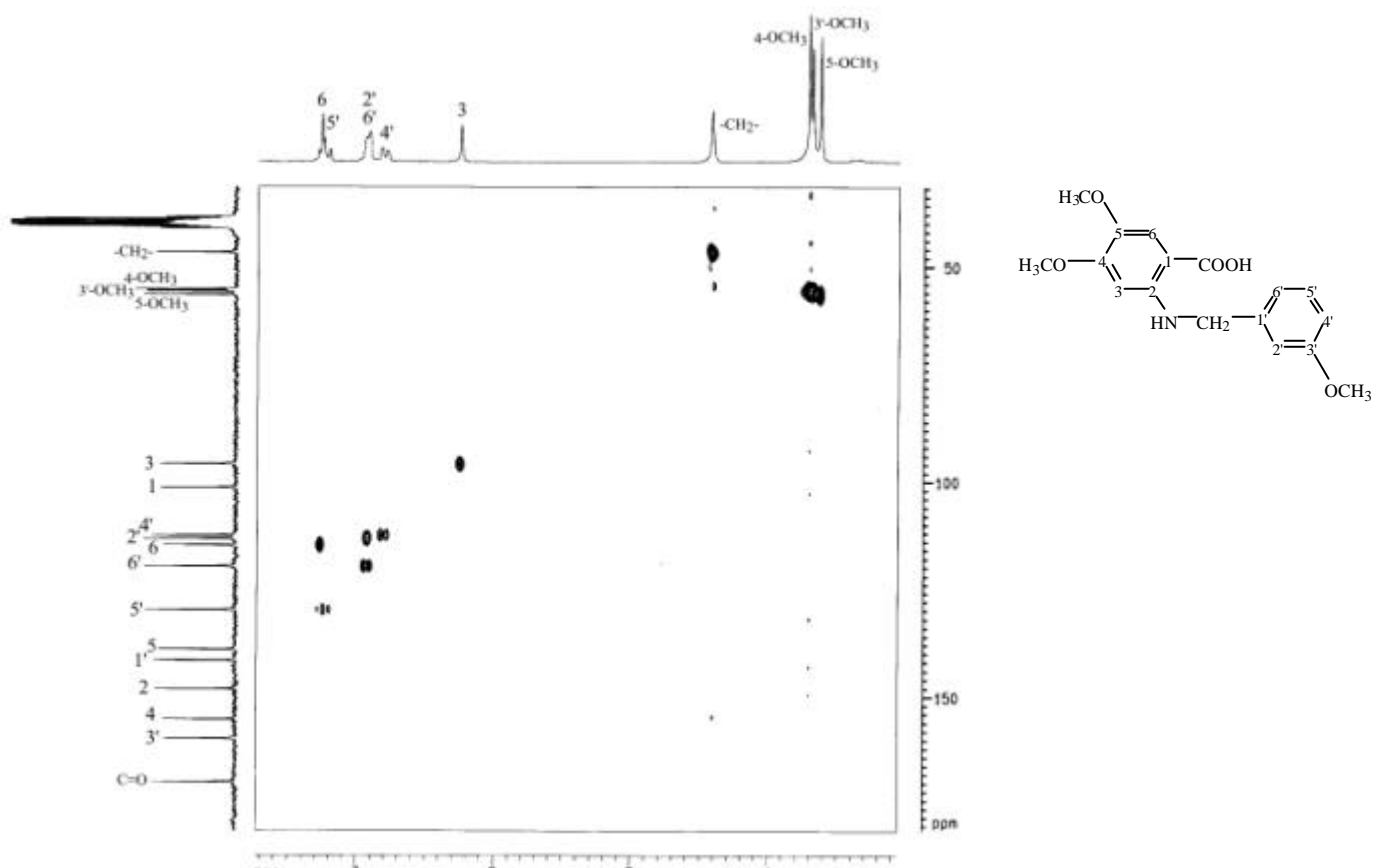


圖 74-6 HMQC (DMSO- d_6) spectrum of compound **74**

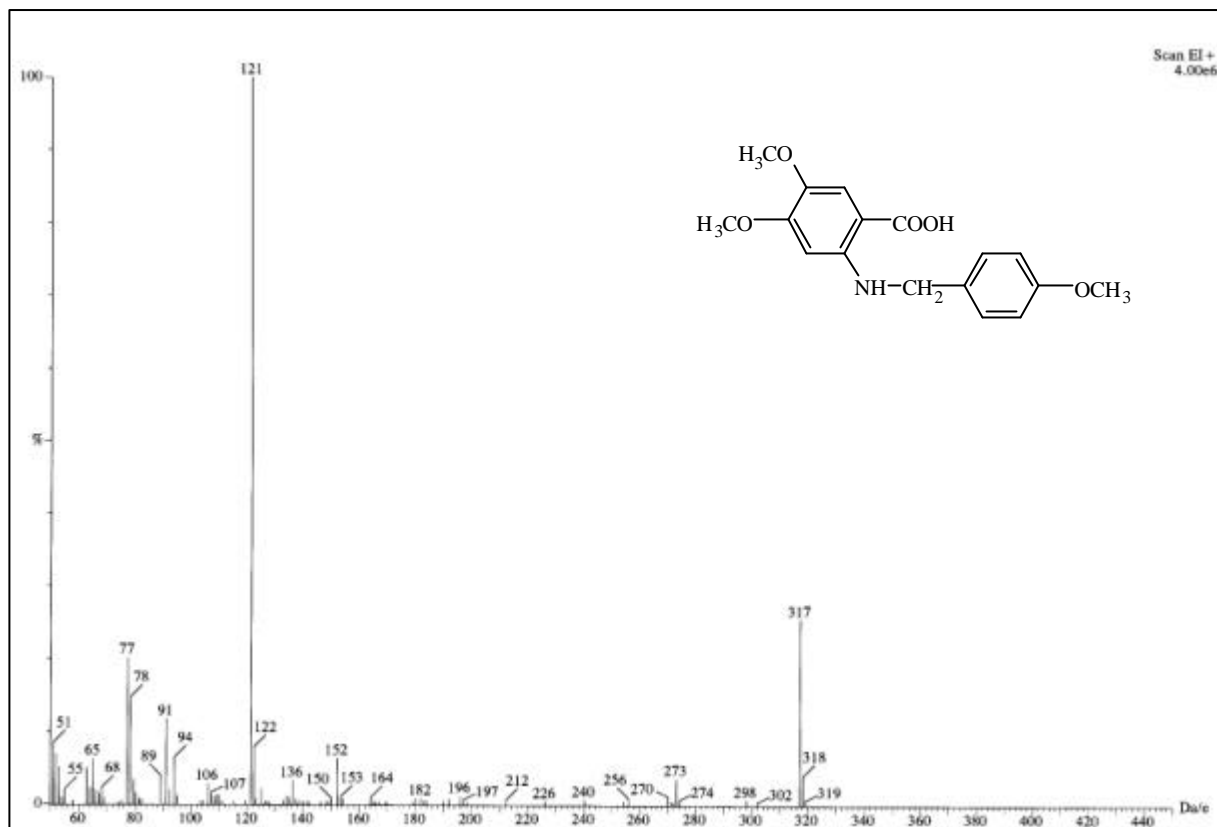


圖 75-1 MS spectrum of compound 75

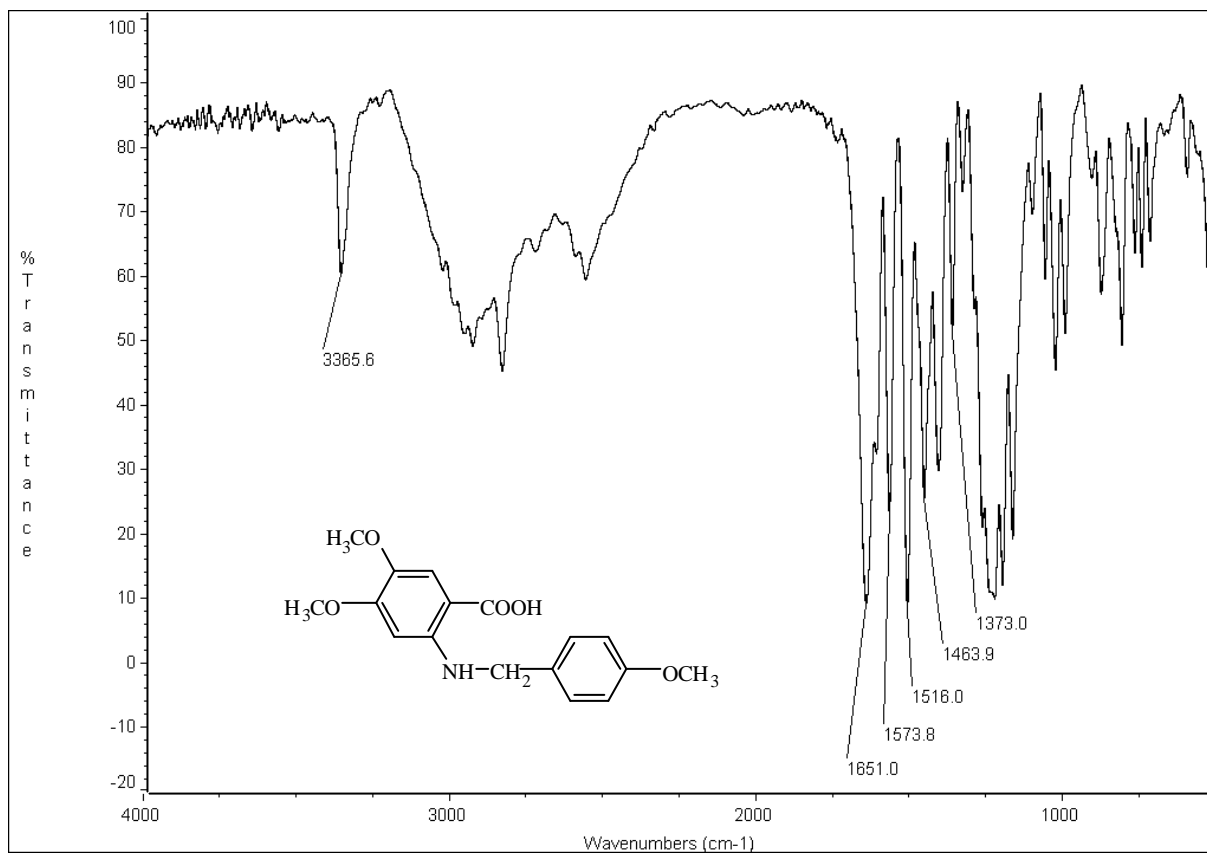


圖 75-2 IR (KBr) spectrum of compound 75

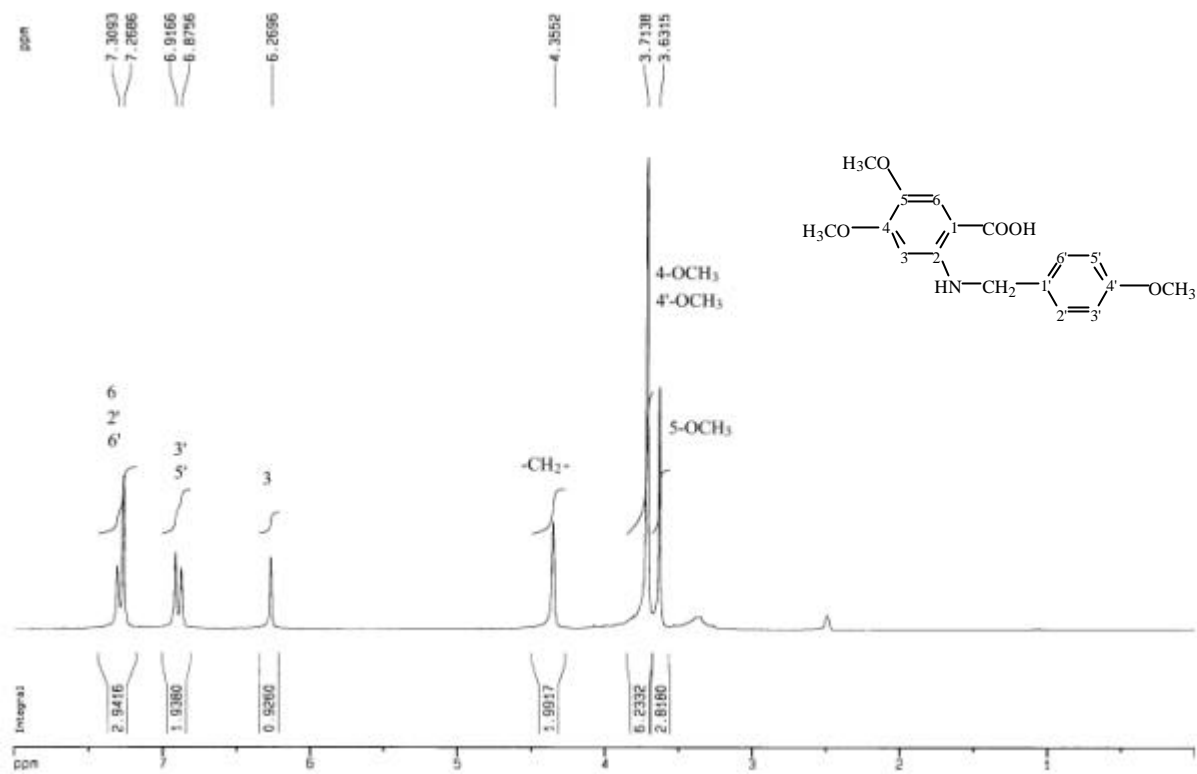


圖 75-3 ¹H-NMR (DMSO-*d*₆, 200 MHz) spectrum of compound **75**

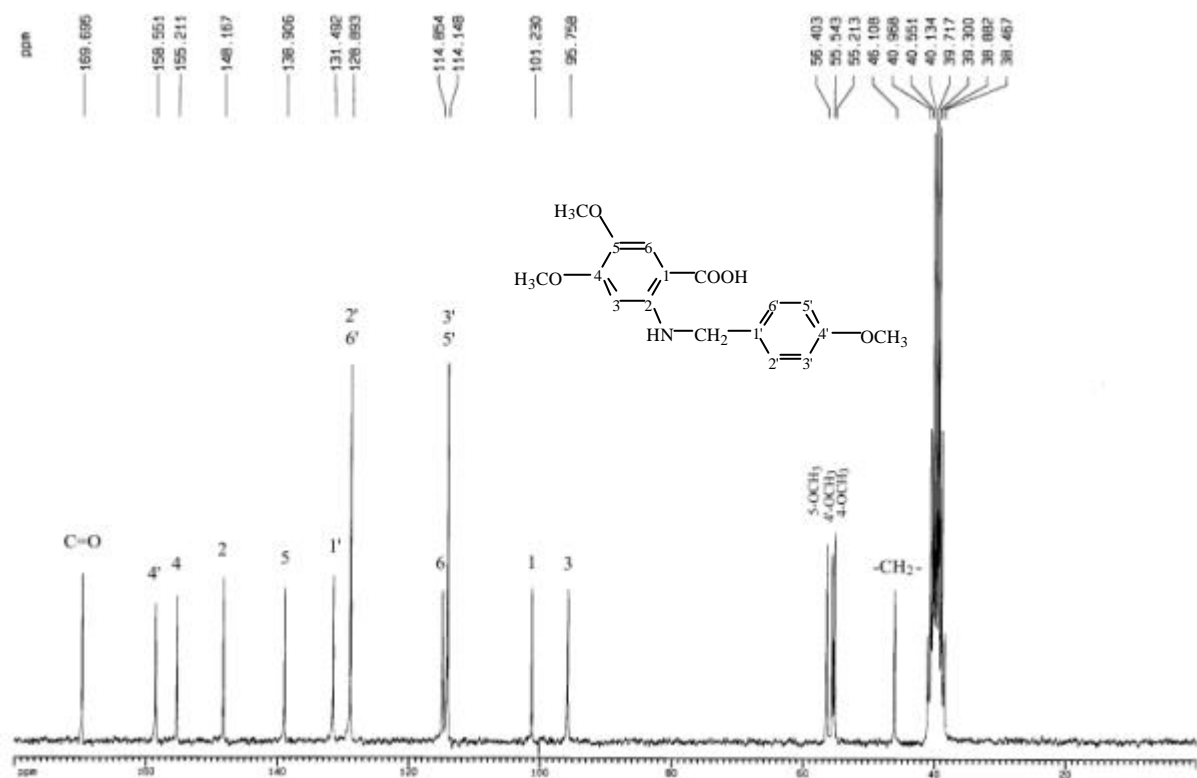


圖 75-4 ¹³C-NMR (DMSO-*d*₆, 50 MHz) spectrum of compound **75**

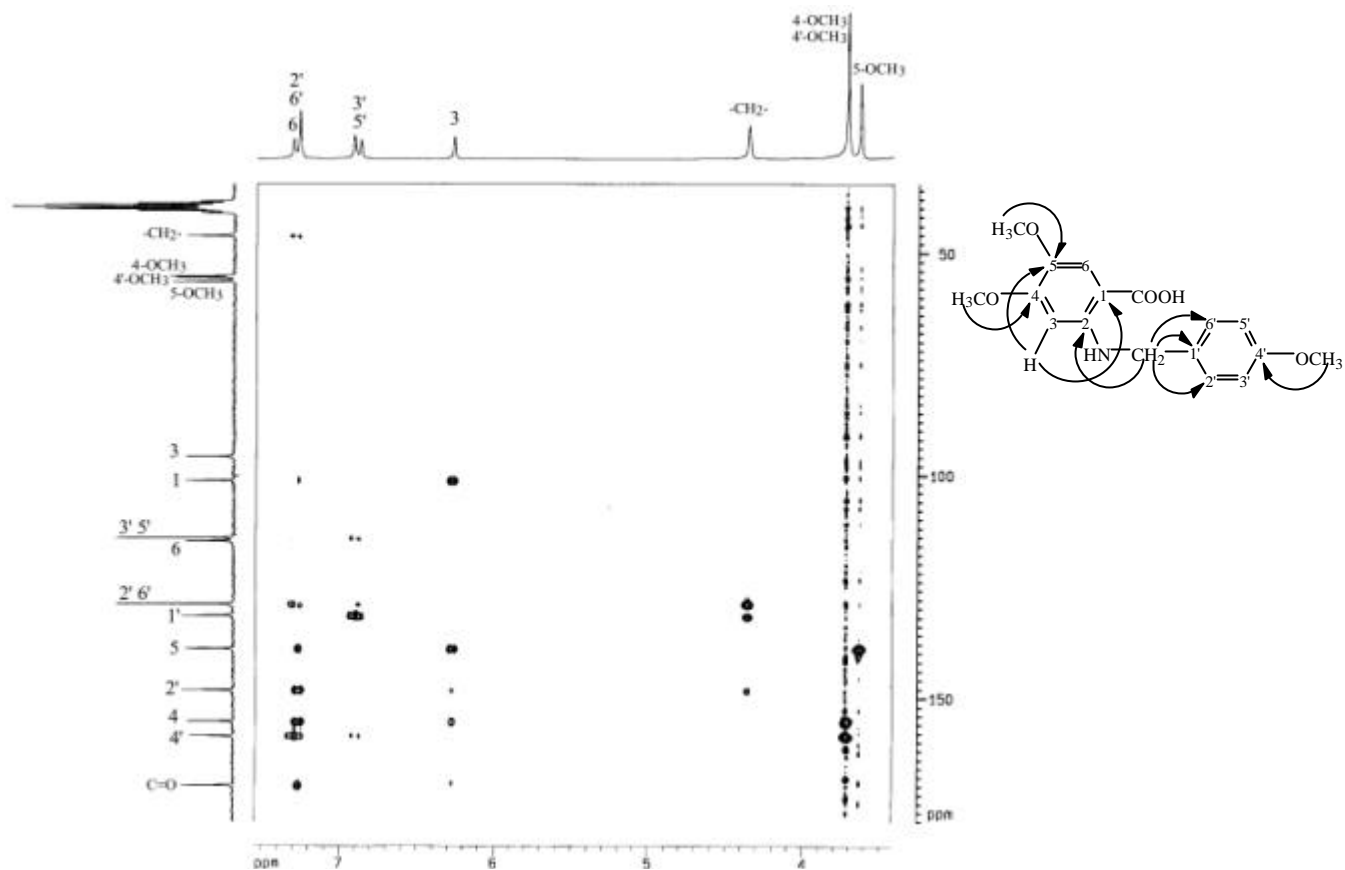


圖 75-5 HMBC (DMSO- d_6) spectrum of compound **75**

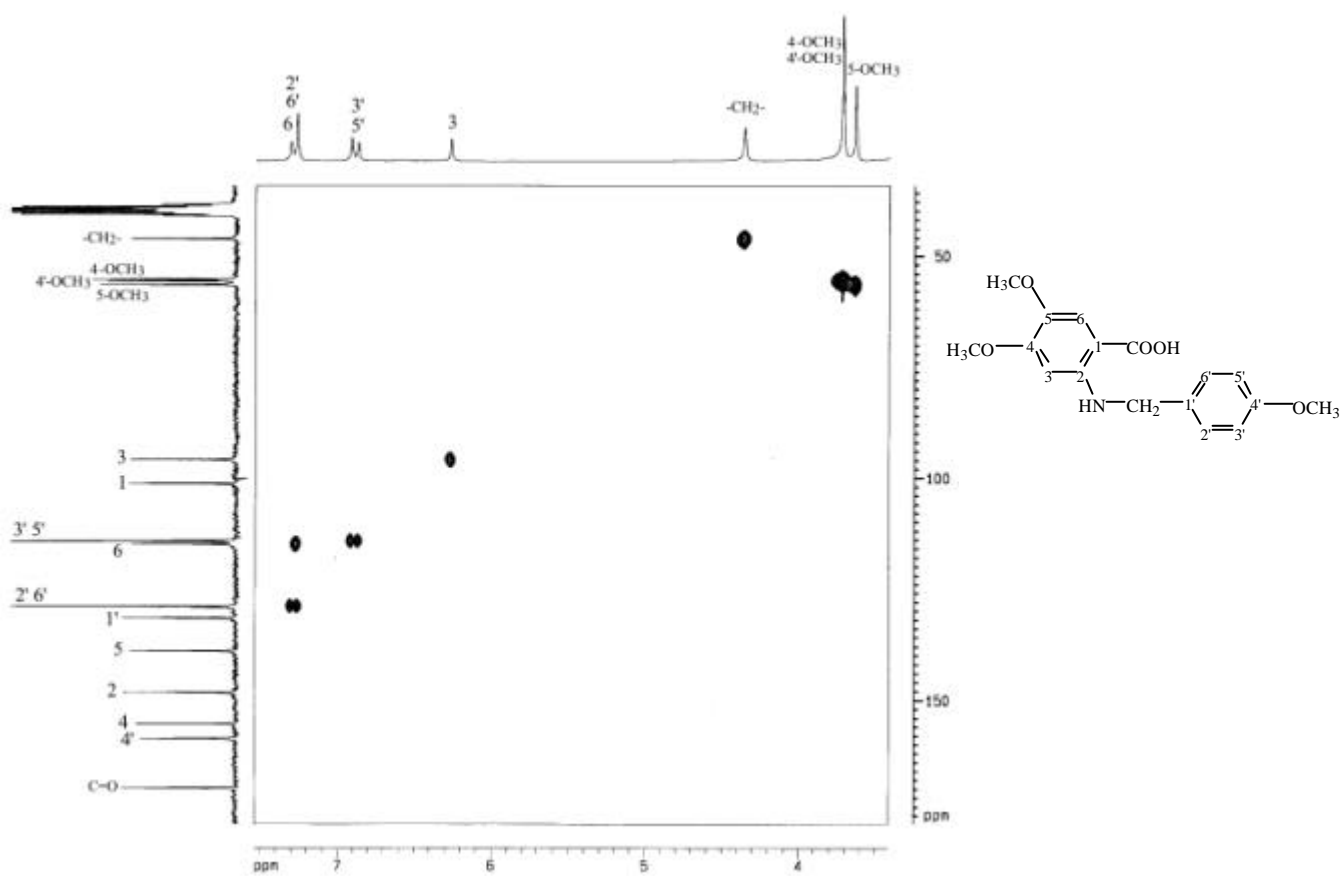


圖 75-6 HMQC (DMSO- d_6) spectrum of compound **75**