

## Supporting Information

### STRUCTURE-ACTIVITY RELATIONSHIPS OF BIFLAVONOIDS FOR $\beta$ -SECRETASE (BACE-1) INHIBITORY ACTIVITY

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Figure 1.  $^1\text{H}$  NMR spectrum (500 MHz) of 2,3-dihydro-6-methylamentoflavone 7,4',7'',4'''-tetramethyleter (**4**) in  $\text{DMSO-}d_6$  pS2

Figure 2.  $^{13}\text{C}$  NMR spectrum (125 MHz) of 2,3-dihydro-6-methylamentoflavone 7,4',7'',4'''-tetramethyleter (**4**) in  $\text{DMSO-}d_6$  pS3

Figure 3.  $^1\text{H}$  NMR spectrum (500 MHz) of apigenin 7,4'-dimethylether (**6**) in  $\text{DMSO-}d_6$  pS4

Figure 4.  $^{13}\text{C}$  NMR spectrum (125 MHz) of apigenin 7,4'-dimethylether (**6**) in  $\text{DMSO-}d_6$  pS5

Figure 5.  $^1\text{H}$  NMR spectrum (500 MHz) of naringenin 7,4'-dimethylether (**8**) in  $\text{DMSO-}d_6$  pS6

Figure 6.  $^{13}\text{C}$  NMR spectrum (125 MHz) of naringenin 7,4'-dimethylether (**8**) in  $\text{DMSO-}d_6$  pS7

Figure 7.  $^1\text{H}$  NMR spectrum (500 MHz) of 7,3'-dimethoxy hesperetin (**10**) in  $\text{DMSO-}d_6$  pS8

Figure 8.  $^{13}\text{C}$  NMR spectrum (125 MHz) of 7,3'-dimethoxy hesperetin (**10**) in  $\text{DMSO-}d_6$  pS9

Figure 1.  $^1\text{H}$  NMR spectrum (500 MHz) of 2,3-dihydro-6-methylamentoflavone 7,4',7'',4'''-tetramethyleter (**4**) in  $\text{DMSO}-d_6$

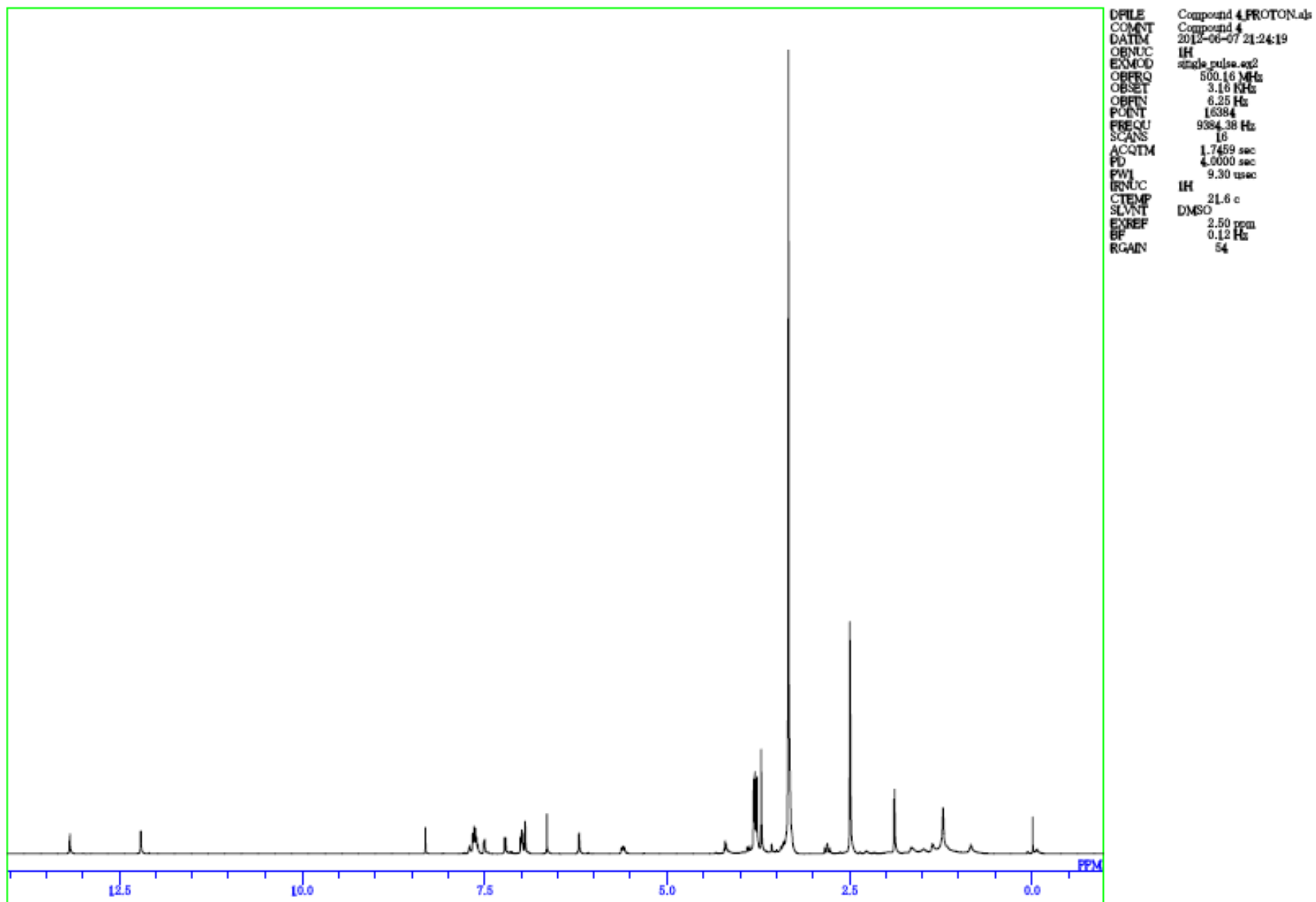


Figure 2.  $^{13}\text{C}$  NMR spectrum (125 MHz) of 2,3-dihydro-6-methylamentoflavone 7,4',7'',4'''-tetramethyleter (**4**) in  $\text{DMSO-}d_6$

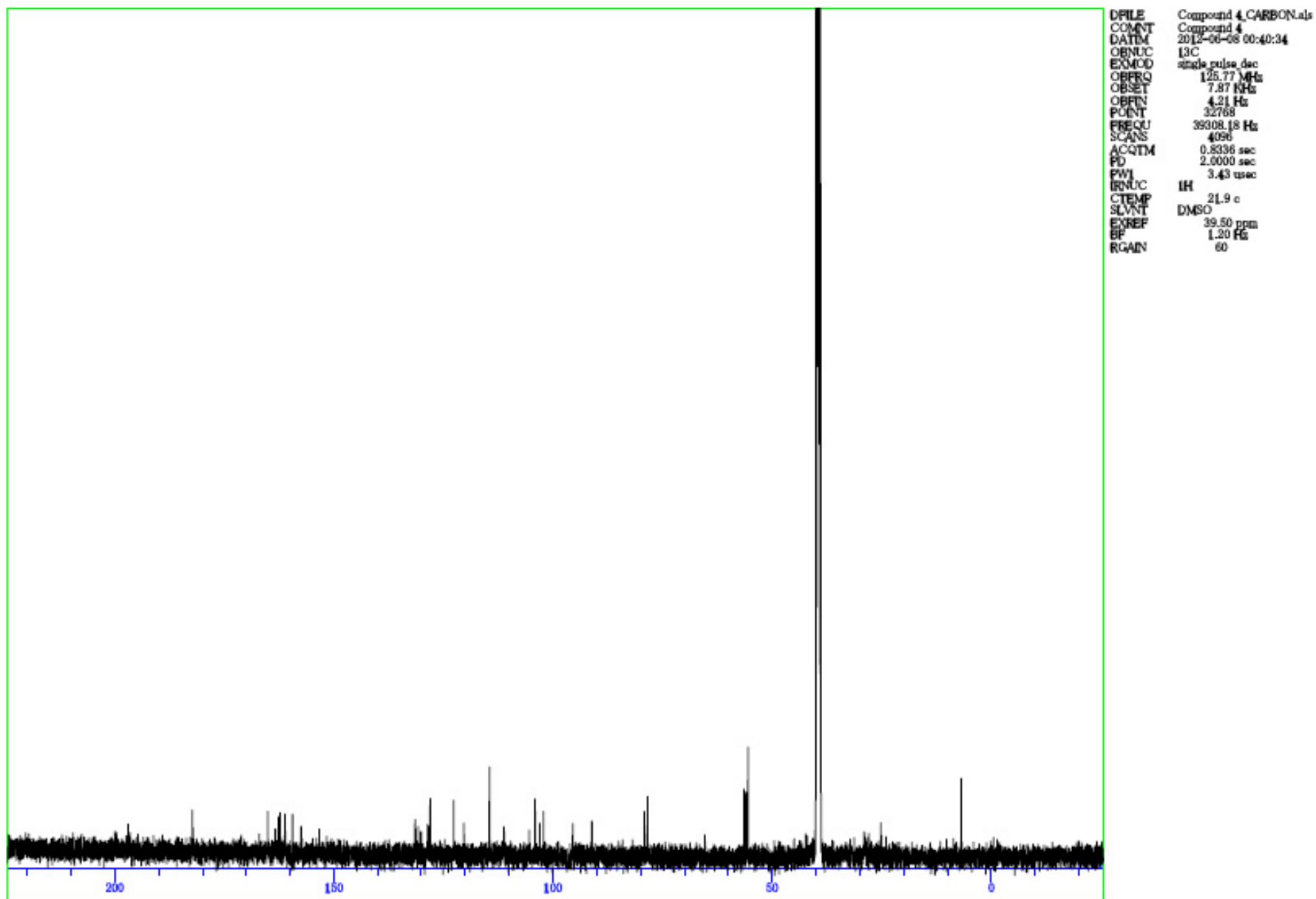


Figure 3.  $^1\text{H}$  NMR spectrum (500 MHz) of apigenin 7,4'-dimethylether (**6**) in  $\text{DMSO-}d_6$

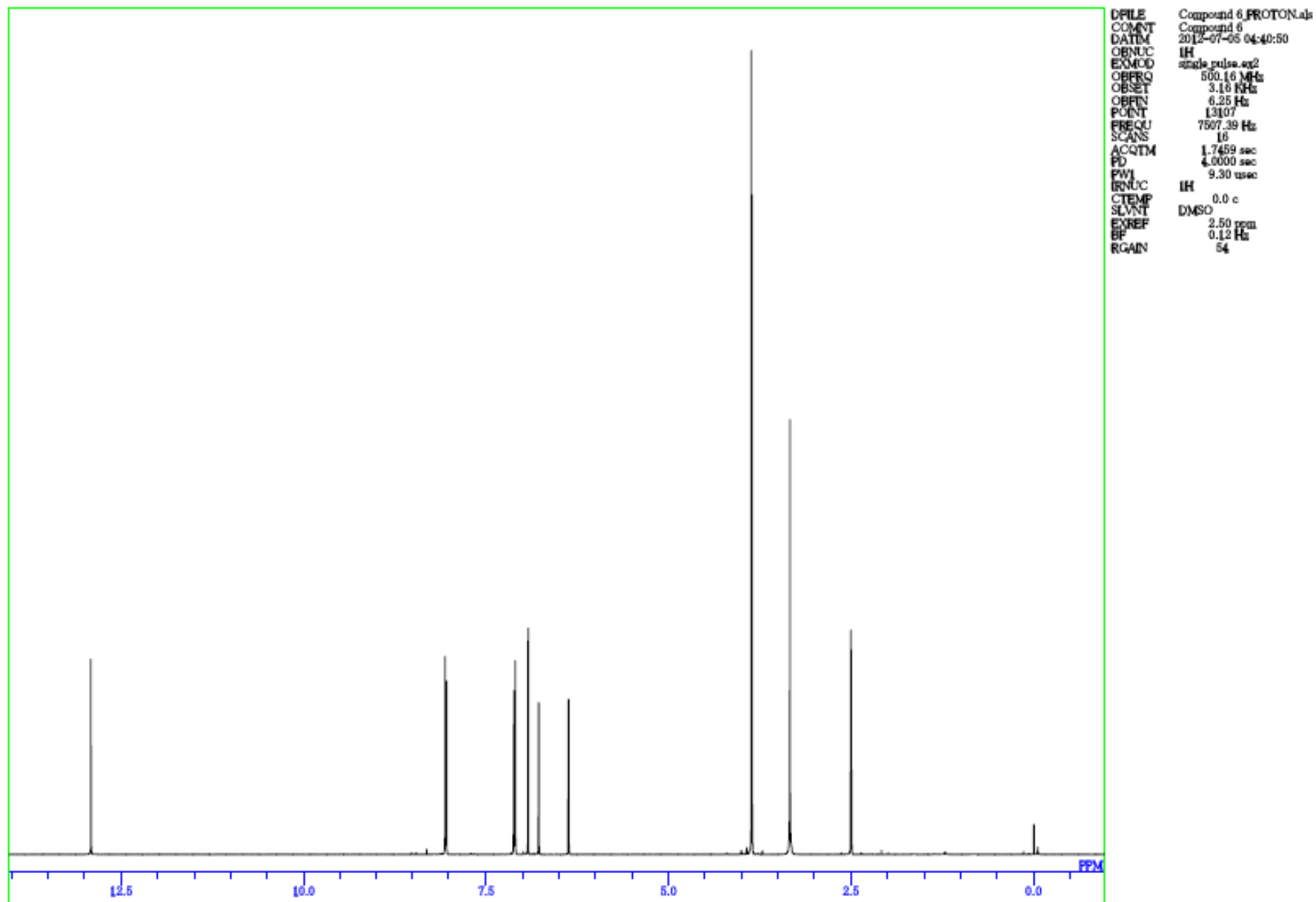


Figure 4.  $^{13}\text{C}$  NMR spectrum (125 MHz) of apigenin 7,4'-dimethylether (**6**) in  $\text{DMSO-}d_6$

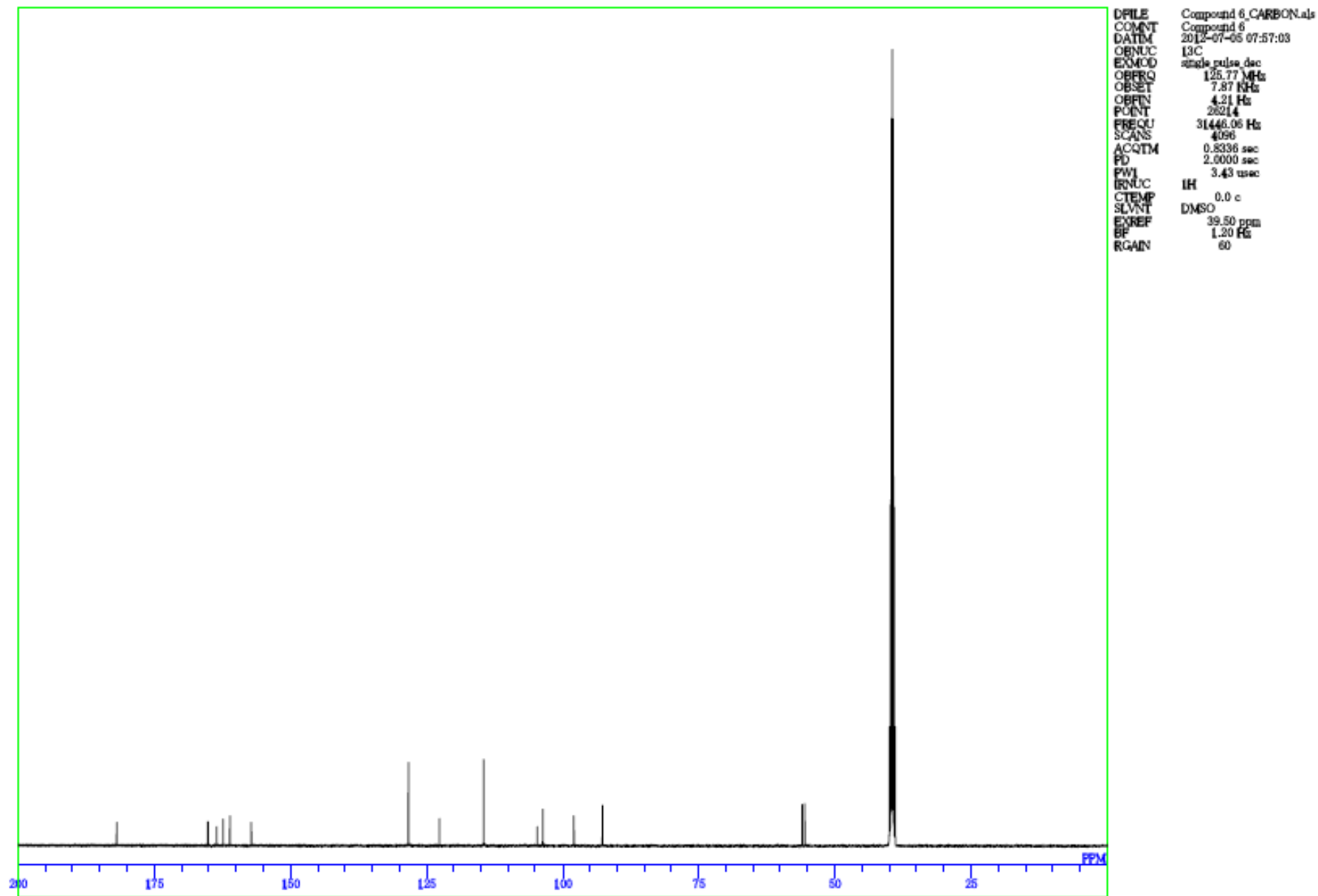


Figure 5.  $^1\text{H}$  NMR spectrum (500 MHz) of naringenin 7,4'-dimethylether (**8**) in  $\text{DMSO-}d_6$

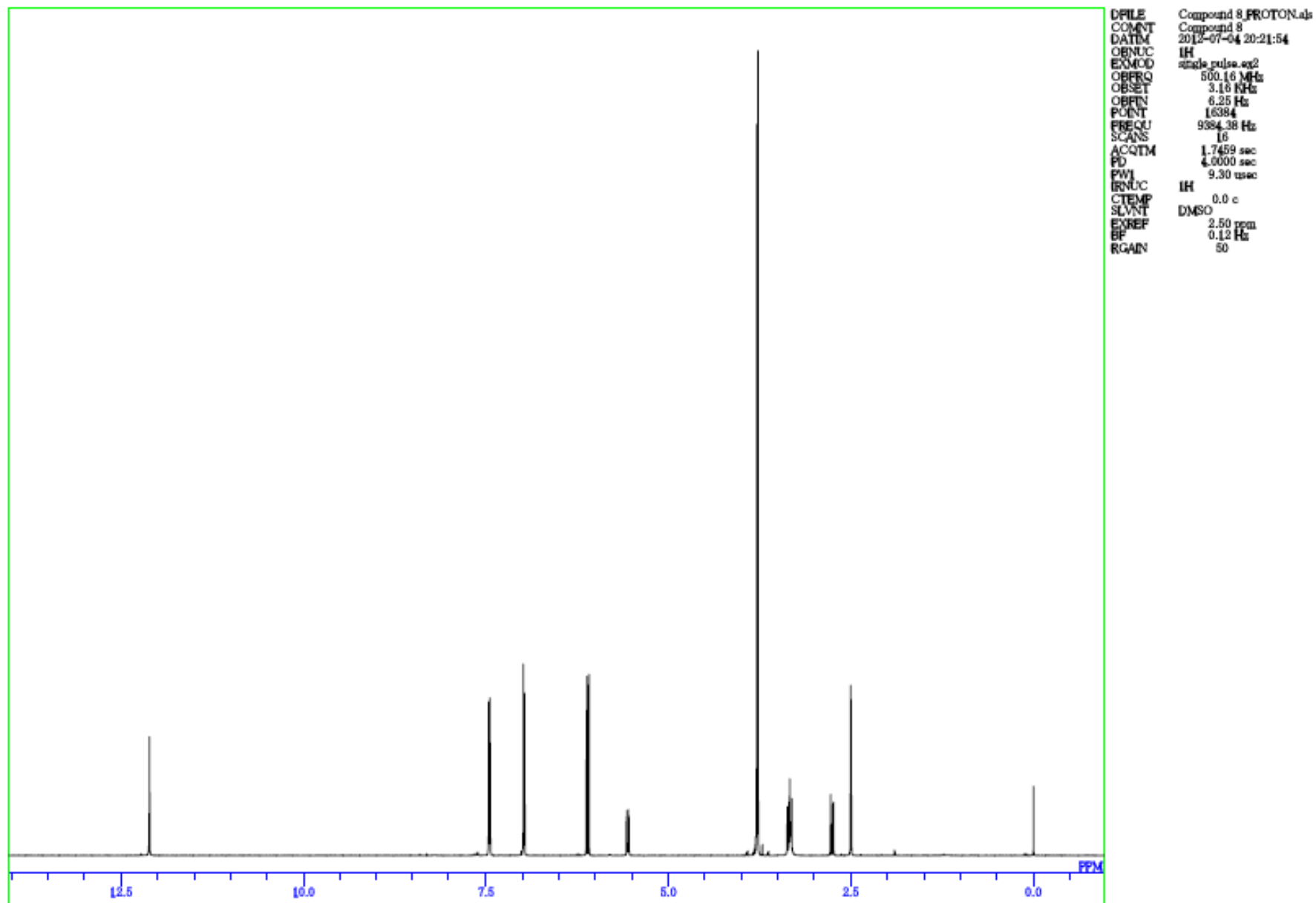


Figure 6.  $^{13}\text{C}$  NMR spectrum (125 MHz) of naringenin 7,4'-dimethylether (**8**) in  $\text{DMSO-}d_6$

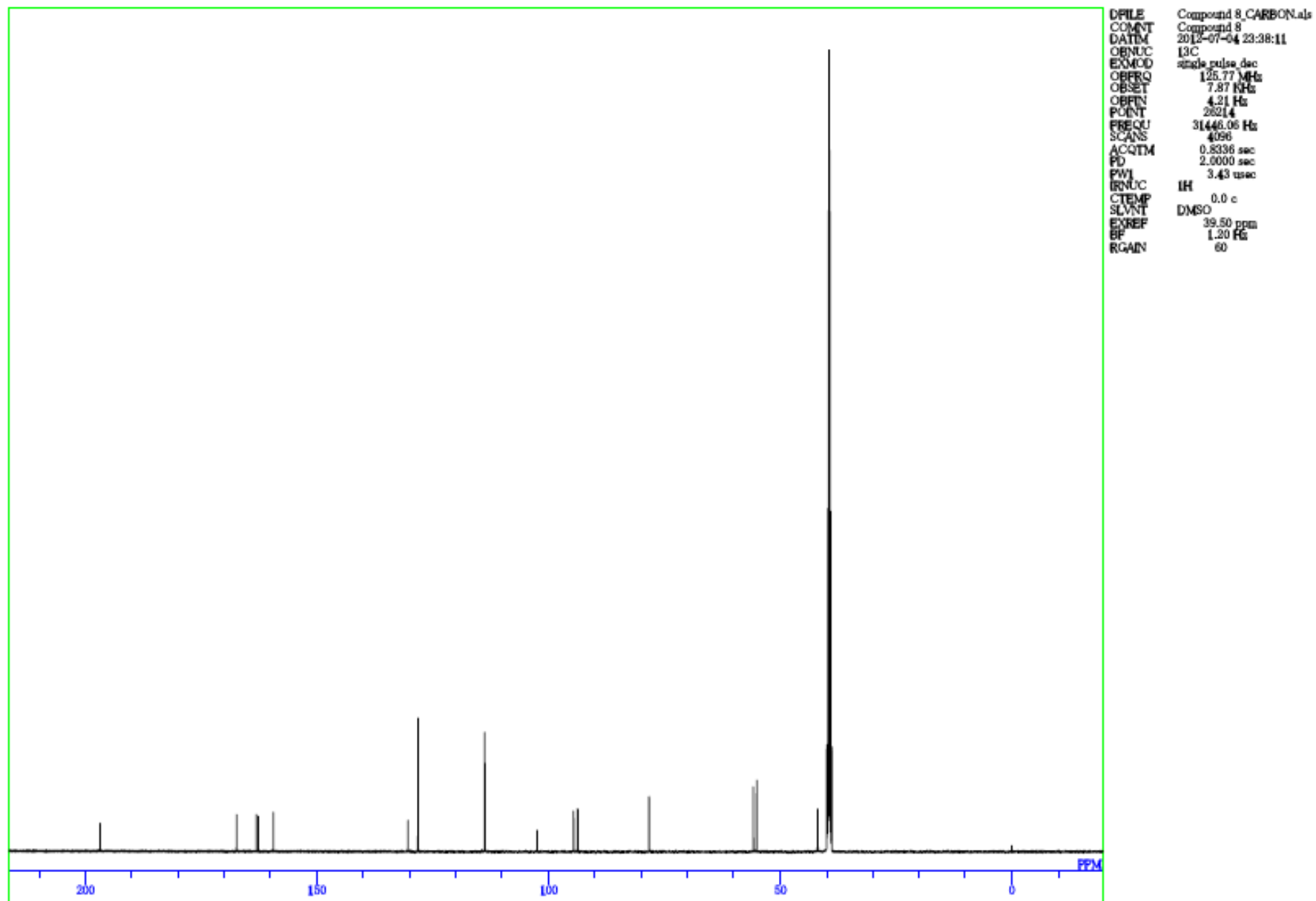


Figure 7.  $^1\text{H}$  NMR spectrum (500 MHz) of 7,3'-dimethoxy hesperetin (**10**) in  $\text{DMSO-}d_6$

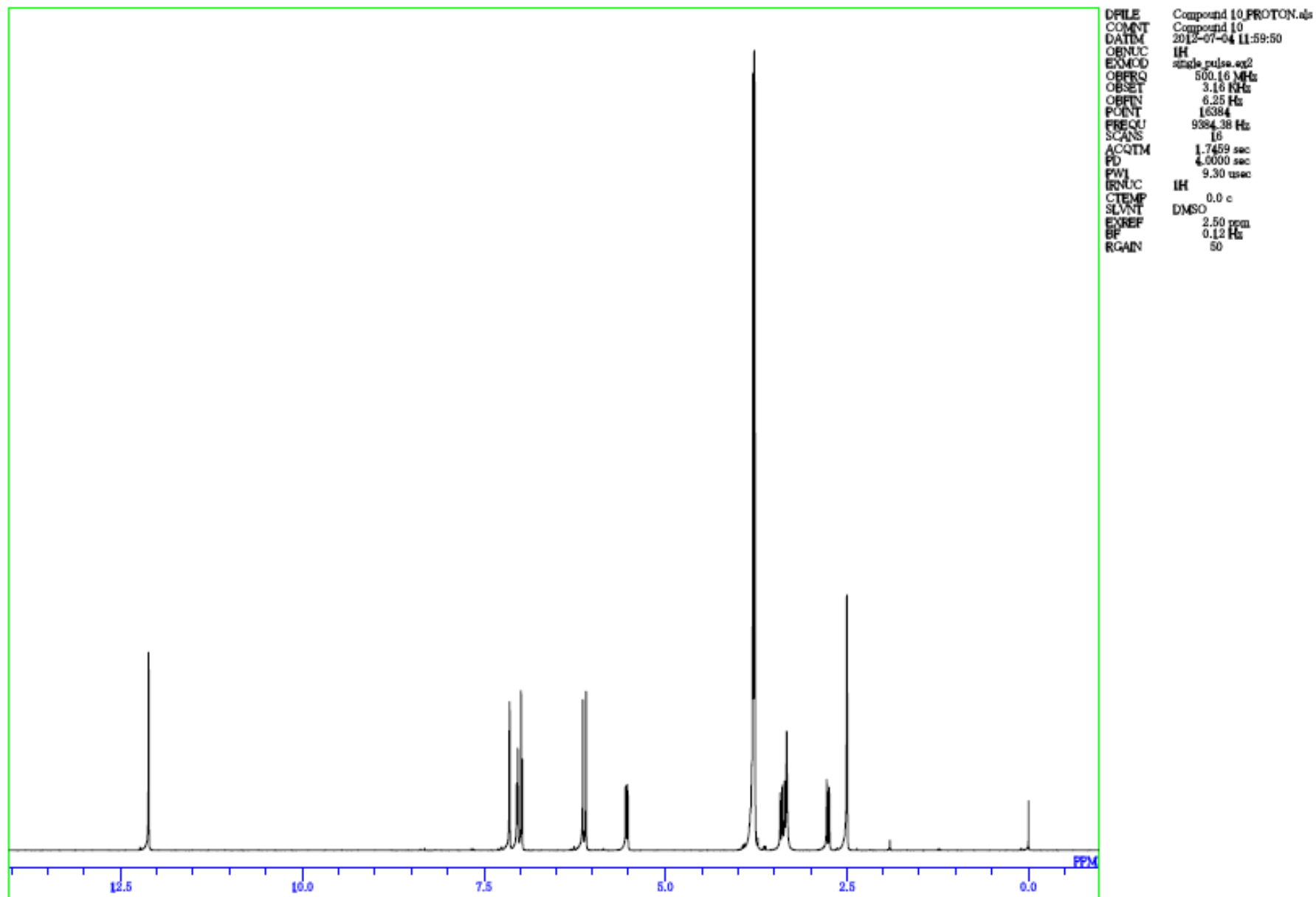




Figure 8.  $^{13}\text{C}$  NMR spectrum (125 MHz) of 7,3'-dimethoxy hesperetin (**10**) in  $\text{DMSO-}d_6$

