*22 other compounds*

Compound **1**: white powder ($C_{22}H_{28}O_8$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.63 (1H, s, H-8), 6.28 (2H, s, H-2′, 6′), 4.24 (1H, d, *J* = 5.6 Hz, H-4), 3.81 (3H, s, 3′-$OCH_3$), 3.77 (6H, s, 5, 7-$OCH_3$), 3.63 (H, m, H-2a), 3.50 (2H, m, H-3a), 3.33 (3H, s, 5′-$OCH_3$), 2.60 (2H,m, H-1), 1.84 (1H, m, H-3), 1.45 (1H, m, H-2). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:148.5 (C-3′, 5′), 148.1 (C-5), 148.0 (C-7), 138.2 (C-1′), 133.8 (C-4′), 129.1 (C-9), 125.5 (C-10), 107.1 (C-2′, 6′), 65.0 (C-2a), 59.4 (5-$OCH_3$), 56.6 (3′, 5′-$OCH_3$), 56.2 (7-$OCH_3$), 32.7 (C-1). By comparing the above data with the literature, compound **1** was identified as lyoniresinol.[S1]

Compound **2**: white powder ($C_{13}H_{18}O_6$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.73 (2H, s, H-2, 6), 6.45 (1H, d, *J* = 16 Hz, H-7), 6.35 (1H, dt, *J* = 4.4, 16 Hz, H-8), 4.85 (1H, d, *J* = 6.8 Hz, H-1′), 4.11 (2H, brs, H-9), 3.77 (6H, s, $OCH_3$), 3.58 (1H, d, *J* = 7.2 Hz, H-6′), 3.03-3.16 (4H, m, H-2′-5′). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:153.2 (C-3, 5), 134.3 (C-4), 133.1 (C-1), 130.6 (C-8), 128.9 (C-7), 104.9 (C-2, 6), 103.0 (C-1′), 77.7 (C-2′), 77.0 (C-3′), 74.6 (C-4′), 70.4 (C-5′), 61.9 (C-9), 61.3 (C-6′), 56.8 ($OCH_3$). By comparing the above data with the literature, compound **2** was identified as sinapyl 9-O-β-D-glucopyranoside.[S2]

Compound **4**: yellow oil ($C_{30}H_{36}O_8$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.91 (1H, m, H-6), 6.75 (1H, d, *J* = 1.6 Hz, H-2), 6.75 (1H, d, *J* = 1.6 Hz, H-5), 6.69 (1H, s, H-2′), 6.68 (1H, s, H-6′), 6.62 (2H, m, H-2″, 5″), 6.49 (1H, dd, *J* = 2.0, 8.0 Hz, H-6″), 5.41 (1H, d, *J* = 6.4Hz, H-7), 3.76(3H, s, 3-$OCH_3$), 3.74(3H, s, 3″-$OCH_3$), 3.69 (3H, s, 3′-$OCH_3$), 3.68 (1H, m. H-9′), 3.67 (2H, m, H-9), 3.41 (1H, m, H-8), 3.34 (2H, m, H-9′), 2.54 (1H, s, H-7′), 2.53 (2H, m, H-7″), 1.82 (1H, m, H-8″), 1.69 (1H, s, H-8′). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:148.0 (C-3), 147.7 (C-3″), 146.7 (C-4′), 146.0 (C-4), 144.7 (C-4″), 143.8 (C-3′), 135.5 (C-1′), 133.0 (C-1), 132.7 (C-1″), 129.5 (C-5′), 121.6 (C-6″), 119.0 (C-2), 116.9 (C-6′), 115.7 (C-5), 115.5 (C-2″), 113.4 (C-5″), 112.8 (C-2′), 110.7 (C-6), 87.3 (C-7), 63.5 (C-9), 60.7 (C-9″), 60.7 (C-9′), 55.9 (3″-$OCH_3$), 55.9 (3-$OCH_3$), 55.9 (3′-$OCH_3$), 53.8 (C-8), 42.9 (C-8″), 35.2 (C-8′), 34.4 (C-7″), 32.0 (C-7′). The above data were consistent with those reported in the literature, and compound **4** was identified as konilignan.[S3]

Compound **5**: white crystal ($C_{16}H_{32}O_2$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:2.11 (2H, t, *J* = 7.5 Hz, H-3), 1.64(2H, m, H-4), 1.25(24H, m, H-5-16), 0.86(3H, t, *J* = 7.4 Hz, H-17). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:178.3 (C-1), 35.6 (C-2), 33.0 (C-14), 29.0-29.4 (C-4-13), 22.5 (C-15), 14.4 (C-16). Compared with the literature, compound **5** was identified as palmitic acid.[S4]

Compound **6**: white powder ($C_{21}H_{30}O_{13}$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:7.74(1H, d, *J* = 2.0, H-2), 7.58(1H, dd, *J* = 2.0, 8.3 Hz, H-6), 6.84 (1H, d, *J* = 8.3, H-5), 4.88 (1H, d, *J* = 15.8, H-7), 4.87(1H, d, *J* = 15.8, H-8), 4.41(1H, d, H-1′), 3.82 (3H, s, $OCH_3$), 3.37 (1H, m, H-5″), 3.17(1H, dd, H-4″). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:193.4 (C-7), 153.5 (C-4), 147.5 (C-3), 127.2 (C-1), 123.5 (C-6), 115.4 (C-5), 110.8 (C-2), 77.7 (C-3′), 74.0 (C-5′), 73.8 (C-2′), 71.7 (C-4″), 71.0 (C′-3″), 69.3 (C-8), 55.1 ($OCH_3$). Compared with the literature, compound **6** was identified as kaempferiaoside E.[S4]

Compound **9**: brown powder ($C_{20}H_{26}O_9$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:7.48 (1H, d, *J* = 15.6 Hz, H-7′), 7.45 (1H, d, *J* = 15.6 Hz, H-7″), 7.04 (1H, d, *J* = 2.0 Hz, H-2′), 7.00 (1H, d, *J* = 2.0 Hz, H-2″), 6.98 (1H, dd, *J* = 2.0, 8.3 Hz, H-6′), 6.76 (1H, d, *J* = 8.0 Hz, H-5′), 6.71 (1H, d, *J* = 8.3 Hz, H-5″), 6.26 (1H, d, *J* = 16.0 Hz, H-8′), 6.11 (1H, d, *J* = 16.0 Hz, H-8″), 4.11-4.17 (2H, m, H-8), 3.90 (1H, m, H-3), 2.17-2.39 (1H, m, H-2a), 0.86(3H, t, *J* = 7.2 Hz, H-11). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:165.9 (C-9′), 165.5 (C-9″), 147.9 (C-4′), 147.9 (C-4″), 145.2 (C-3′), 145.0 (C-7′), 125.3 (C-1′), 124.8 (C-1″), 120.7 (C-6′), 115.5 (C-5′), 115.1 (C-5″), 114.2 (C-8′), 113.3 (C-8″), 71.6 (C-1), 70.9 (C-4), 69.2 (C-5), 66.7 (C-8). Compared with the literature, compound **9** was identified as chlorogenic acid butyl ester.[S5]

Compound **11**: colorless oil ($C_{18}H_{32}O_2$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:5.31 (4H, m, H-9, 10, 12, 13), 2.73 (2H, t, *J* = 6.8 Hz, H-11), 2.28 (2H, m, H-8), 2.01 (2H, t, H-14), 1.26 (14H, m, H-4-7, 15-17), 0.86 (3H, t, *J* = 6.6 Hz, H-18). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:173.3 (C-1), 130.1 (C-10), 130.1 (C-13), 128.2 (C-12), 128.2 (C-9), 33.9 (C-2), 31.4 (C-6), 29.5 (C-16), 29.2 (C-7), 29.1 (C-15), 29.0 (C-4), 28.9 (C-5), 27.1 (C-14), 27.1 (C-8), 25.7 (C-11), 24.9 (C-3), 22.5 (C-17), 14.3 (C-18). By comparing the above data with the literature, compound **11** was identified as linoleic acid.[S6]

Compound **14**: yellow powder ($C_{20}H_{22}O_6$). $^1$H NMR (600 MHz, MeOD) *δ*:6.69 (1H, d, J = 8.0 Hz, H-5″), 6.67 (1H, d, *J* = 8.0 Hz, H-5′), 6.67 (1H, d, *J* = 1.6 Hz, H-2″), 6.58 (1H, dd, *J* = 8.0, 1.6 Hz, H-6″), 6.55 (1H, d, *J* = 1.4 Hz, H-2′), 6.50 (1H, dd, *J* = 8.0, 1.4 Hz, H-6′), 4.15 (1H, m, H-4), 3.92 (1H, m, H-4), 3.78 (3H, s, 3″-$OCH_3$), 3.77 (3H, s, 3′-$OCH_3$), 2.87 (1H, dd, *J* = 14.0, 5.4 Hz, H-6), 2.82 (1H, dd, *J* = 14.0, 7.0 Hz, H-6), 2.65 (1H, m, H-2), 2.52 (2H, m, H-5), 2.47 (1H, m, H-3). $^{13}$C NMR (150 MHz, MeOD) *δ*:180.2 (C-1), 149.7 (C-3′, 3″), 147.6 (C-4″), 147.6 (C-4′), 130.0 (C-1′), 129.4 (C-1″), 121.6 (C-6″), 120.8 (C-6′), 114.8 (C-5′, 5″), 112.5 (C-2″), 111.8 (C-2′), 71.5 (C-4), 54.9 (3′, 3″-$OCH_3$), 46.4 (C-2), 41.1 (C-3), 37.5 (C-5), 34.0 (C-6). Compared with the literature, compound **14** was identified as matairesinol.[S7]

Compound **15**: colorless oil ($C_{19}H_{30}O_2$). $^1$H NMR (600 MHz, MeOD) *δ*:6.96 (1H, d, *J* = 1.5 Hz, H-3), 4.91 (1H, brq, *J* = 7.2 Hz, H-4), 1.39-1.47 (6H, s, H-9-14), 1.29 (1H, m, H-15). $^{13}$C NMR (150 MHz, MeOD) *δ*:174.6 (C-1), 137.8 (C-7), 132.2 (C-16), 131.0 (C-2), 128.5 (C-17), 75.1 (C-4), 33.4 (C-8), 32.2 (C-15), 28.6-29.5 (6C, C-9-14), 24.6 (C-18), 18.9 (C-5), 14.2 (C-19). The above data were consistent with those reported in the literature, and compound **15** was identified as litsealactone A.[S8]

Compound **16**: white powder ($C_{14}H_{16}O_6$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.63 (2H, s, H-2′, 6′), 4.62 (1H, d, *J* = 10.4 Hz, H-6), 4.49 (1H, d, *J* = 7.6 Hz, H-8a), 4.36 (1H, d, *J* = 7.6 Hz, H-4a), 4.21 (1H, d, *J* = 8.4 Hz, H-8b), 3.92 (1H, d, *J* = 9.2 Hz, H-4b), 3.75 (6H, s, 3′, 5′-$OCH_3$), 3.59 (1H, m, H-1), 3.17 (1H, m, H-5). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:179.2 (C-2), 148.4 (C-3′, 5′), 135.6 (C-4′), 130.4 (C-1′), 104.1 (C-2′, 6′), 86.1 (C-6), 70.7 (C-4), 69.9 (C-8), 56.5 (3′, 5′-$OCH_3$), 48.1 (C-1), 46.3 (C-5). The above data were consistent with those reported in the literature, and compound **16** was identified as zhebeiresinol.[S9]

Compound **17**: white powder ($C_9H_8O_4$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:7.41 (1H, d, *J* = 16.1 Hz, H-7), 7.01 (1H, d, *J* = 2.0 Hz, H-2), 6.94 (1H, dd, *J* = 8.2, 2.0 Hz, H-6), 6.76 (1H, d, *J* = 8.2 Hz, H-5), 6.18 (1H, d, *J* = 16.1 Hz, H-8). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:168.5 (C-9), 148.6 (C-4), 147.3 (C-7), 146.0 (C-3), 126.2 (C-1), 121.6 (C-8), 116.2 (C-2), 115.4 (C-5), 115.1 (C-6). By comparing the above data with the literature, compound **17** was identified as caffeic acid.[S10]

Compound **18**: colorless crystal ($C_7H_6O_4$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:7.28-7.33 (2H, m, H-2, 6), 6.78 (1H, d, *J* = 8.0 Hz, H-5). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:167.8 (C-7), 150.4 (C-4), 145.3 (C-3), 122.3 (C-1), 117.0 (C-2), 115.6 (C-5), 112.2 (C-6). The above data were consistent with those reported in the literature, and compound **18** was identified as protocatechuic acid.[S11]

Compound **19**: yellow oil ($C_{27}H_{30}O_8$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.86 (1H, d, *J* = 1.6 Hz, H-2), 6.73 (1H, d, *J* = 8.0 Hz, H-5), 6.73 (1H, d, *J* = 1.6, 8.0 Hz, H-6), 6.59 (1H, d, *J* = 8.1 Hz, H-5''), 6.58 (1H, brs, H-6'), 6.56 (1H, brs, H-2'), 6.46 (1H, d, *J* = 1.8 Hz, H-2''), 4.08 (1H, d, *J* = 10.6, 5.0 Hz, H-9'), 3.75 (3H, s, 3-$OCH_3$), 3.71 (1H, dd, *J* = 11.0, 5.1 Hz, H-9), 3.34 (1H, m, H-8). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:148.3 (C-3), 148.2 (C-4'), 147.9 (C-4), 146.4 (C-4''), 145.5 (C-3'), 134.8 (C-1'), 134.6 (C-1), 131.9 (C-1''), 129.3 (C-5'), 122.0 (C-6''), 117.5 (C-6'), 115.8 (C-5), 115.8 (C-5''), 114.0 (C-2''), 113.9 (C-2'), 109.2 (C-2), 87.6 (C-7'), 56.4 (C-8'), 56.4 (3-$OCH_3$), 55.9 (C-8). Compared with the literature, compound **19** was identified as hawthornnin A.[S12]

Compound **20**: yellow oil ($C_{14}H_{28}O_4$). $^1$H NMR (600 MHz, MeOD) *δ*:3.65 (4H, m, $CH_2OCH_2$), 3.55 (2H, m, $CH_2OH$), 2.32 (2H, m, $CH_2COO$), 1.60 (2H, m, $CH_2CH_2CH_2COO$), 1.23-1.41 (12H, m, $(CH_2)6$), 0.91 (3H, m, $CH_3$). $^{13}$C NMR (150 MHz, MeOD) *δ*:174.6 (-COO), 71.7, 69.7, 63.7, 62.7, 34.1, 31.7, 29.5, 29.4, 29.2, 28.9, 24.6, 22.3, 14.2. Compared with the literature, compound **20** was identified as 2-(2-Hydroxyethoxy) ethyl decanoate.[S13]

Compound **21**: white powder ($C_{22}H_{26}O_8$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.60 (4H, s, H-2',6',2'',6''), 4.62 (2H, d, *J* = 10.2 Hz, H-2,6), 4.38 (2H, dd, *J* = 6.6, 7.8 Hz, H-4a, 8a), 4.17 (2H, dd, *J* = 3.0, 7.8 Hz, H-4b, 8b), 4.14 (12H, s, 3',3'',5',5''-$OCH_3$), 3.35 (2H, m, H-1,5). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:148.4 (C-3', 3'', 5', 5''), 135.3 (C-4, 4''), 131.9 (C-1', 1''), 85.8 (C-2, 6), 71.5 (C-4, 8), 56.5 (3', 3'', 5', 5''-$OCH_3$), 54.1 (C-1, 5). By comparing the above data with the literature, compound **21** was identified as syringaresinol.[S14]

Compound **23**: yellow powder ($C_{11}H_{10}O_5$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:7.92 (1H, d, *J* = 9.6 Hz), 6.68 (1H, s), 6.25 (1H, d, *J* = 9.6 Hz), 3.83 (3H, s), 3.82 (3H, s). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:160.7 (-COO), 148.5 (Ph-C), 143.5 (Ph-C), 135.1 (Ph-C), 104.9 (Ph-C), 61.1 (-$OCH_3$), 56.6 (-$OCH_3$). Compound **23** was identified as fraxidin compared to literature.[S15]

Compound **25**: brown-yellow powder ($C_{30}H_{44}O_7$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.92 (1H, dt, *J* = 1.8, 6.9 Hz, H-8), 5.35 (1H, ddd, *J* = 6, 2.1, 1.8 Hz, H-10), 4.94 (1H, m, H-14), 4.65 (1H, dd, *J* = 6 Hz, H-11), 4.27 (1H, d, H-15'), 2.77 (1H, s, H-7), 2.39 (1H, s, H-8'), 2.28 (1H, s, H-3'), 2.27 (1H, s, H-4), 2.18 (1H, s, H-7'), 2.01 (1H, s, H-6), 1.99 (1H, s, H-4), 1.95 (1H, s, H-7'), 1.66 (1H, s, H-3), 1.55

(1H, s, H-12′), 1.50 (1H, s, H-13′), 1.23 (1H, m, H-14′), 1.06 (1H, m, H-13). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:170.8 (C-15), 147.9 (C-5), 146.9 (C-8), 135.9 (C-9′), 130.2 (C-9), 122.7 (C-10′), 108.4 (C-14), 101.3 (C-6′), 78.8 (C-1′), 75.8 (C-11), 72.3 (C-5′), 66.6 (C-10), 60.2 (C-15′), 54.2 (C-6), 49.1 (C-2), 39.4 (C-1), 37.4 (C-4), 31.8 (C-7′), 29.5 (C-4′), 29.2 (C-3′), 28.9 (C-11′), 28.6 (C-8′), 27.1 (C-12′), 27.0 (C-12), 25.8 (C-7), 24.9 (C-13′), 21.2 (C-14′), 14.4 (C-13). The above data were consistent with those reported in the literature, and compound **25** was identified as saponaceolide F.[S16]

Compound **26**: white powder ($C_{21}H_{26}O_7$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.81 (1H, brs, H-2'), 6.77 (1H, dd, *J* = 8.0, 2.0 Hz, H-6'), 6.63 (1H, d, *J* = 8.0 Hz, H-5'), 6.60 (2H, brs, H-2, 6), 4.62 (1H, d, *J* = 6.0 Hz, H-7), 3.95 (1H, dd, *J*=8.5, 6.5 Hz, H-9'a), 3.84 (3H, s, 3'-$OCH_3$), 3.75 (6H, s, 3, 5-$OCH_3$), 3.69 (1H, m, H-9b), 3.59 (1H, dd, *J* = 8.5, 6.5 Hz, H-9b'), 3.05 (1H, dd, *J* = 13.5, 5.0 Hz, H-7'a), 2.62 (1H, m, H-8'), 2.51 (1H, dd, *J* = 13.5, 11.0 Hz, H-7'b), 2.38 (1H, m, H-8). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:147.5 (C-3, 5), 144.2 (C-4′), 134.2 (C-1), 134.0 (C-4), 132.3 (C-1′), 121.2 (C-6′), 115.9 (C-5′), 111.4 (C-2′), 103.8 (C-2), 103.0 (C-6), 84.7 (C-7), 70.4 (C-), 60.1 (C-9), 55.5 (3, 5-$OCH_3$), 55.4 (3′-$OCH_3$), 53.0 (C-8), 33.0 (C-7′). By comparing the above data with the literature, compound **26** was identified as 5'-Methoxylariciresinol.[S17]

Compound **27**: yellow oil ($C_{30}H_{60}O_2$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:2.18 (2H, t, *J* = 7.5 Hz, H-2), 1.49 (2H, m, H-3), 1.23 (brs), 0.85 (3H, t, *J* = 6.5 Hz, H-25). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:34.1 (C-2), 31.8 (C-23), 29.5 (C-4-20), 29.2 (C-21), 29.0 (C-22), 25.0 (C-3), 22.6 (C-24), 14.4 (C-25). Compared with the literature, compound **27** was identified as cerotic acid.[S18]

Compound **29**: white powder ($C_{29}H_{48}O$). $^1$H NMR (600 MHz, CDCl3) *δ*:5.35 (1H, m, H-6), 5.15 (1H, dd, *J* = 15.0, 8.5 Hz, H-22), 5.02 (1H, dd, *J* = 15.0, 8.5 Hz, H-23), 3.49 (1H, m, H-3), 1.03 (3H, s, H-19), 1.01 (3H, d, *J* = 7.0 Hz, H-21), 0.84 (3H, t, *J* = 6.5 Hz, H-29), 0.82 (3H, d, *J* = 7.0 Hz, H-26), 0.79 (3H, d, *J* = 7.0 Hz, H-27), 0.70 (3H, s, H-18). $^{13}$C NMR (150 MHz, CDCl3) *δ*:140.8 (C-5), 138.3 (C-22), 129.3 (C-23), 121.7 (C-6), 71.8 (C-3), 56.8 (C-14), 56.1 (C-17), 51.2 (C-24), 50.1 (C-9), 42.3 (C-4), 42.3 (C-13), 40.5 (C-20), 39.8 (C-12), 37.3 (C-1), 36.5 (C-10), 31.9 (C-8), 31.9 (C-7), 31.7 (C-2), 28.3 (C-16), 25.4 (C-28), 24.3 (C-15), 21.1 (C-21), 21.1 (C-27), 21.1 (C-11), 19.8 (C-19), 19.4 (C-26), 12.3 (C-29), 11.9 (C-18).Compared with the literature, compound **29** was identified as stigmasterol.[S19]

Compound **30**: yellow oil ($C_{57}H_{98}O_6$). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:174.9 (-CO), 173.79 (-CO), 130.2 (C-9a), 130.2 (C-9b), 128.2 (C-10b), 128.2 (C-10a), 34.1 (C-2b), 33.7 (C-2a), 31.4 (C-16), 29.5 (C-4, 5-8), 27.1 (C-14), 25.7 (C-11), 25.0 (C-3), 22.4 (C-17), 14.4 (C-18). By comparing the above data with the literature, compound **30** was identified as trilinolein.[S20]

Compound **31**: white crystal ($C_{20}H_{18}O_6$). $^1$H NMR (600 MHz, DMSO-*d6*) *δ*:6.92 (2H, s, H-2, 2′), 6.86 (2H, d, J = 8.4 Hz, H-5, 5′), 6.84 (2H, d, J = 8.4 Hz, H-6, 6′), 5.99 (4H, s, 2-$OCH_2O$), 4.64 (2H, d, *J* = 4.5 Hz, H-7, 7′), 4.11 (2H, dd, *J* = 6.7, 9 Hz, H-9α, 9′α), 3.76 (2H, dd, *J* = 4.9 Hz, H-9β, 9′β), 3.00 (2H, m, H-8, 8′). $^{13}$C NMR (150 MHz, DMSO-*d6*) *δ*:147.9 (C-4, 4′), 147.0 (C-3, 3′), 135.9 (C-1, 1′), 119.8 (C-6, 6′), 108.4 (C-5, 5′), 107.0 (C-2, 2′), 101.4 ($OCH_2O$), 85.3 (C-7, 7′), 71.4 (C-9, 9′), 54.2 (C-8, 8′).

Compared with the literature, compound **31** was identified as sesamin.[S21]

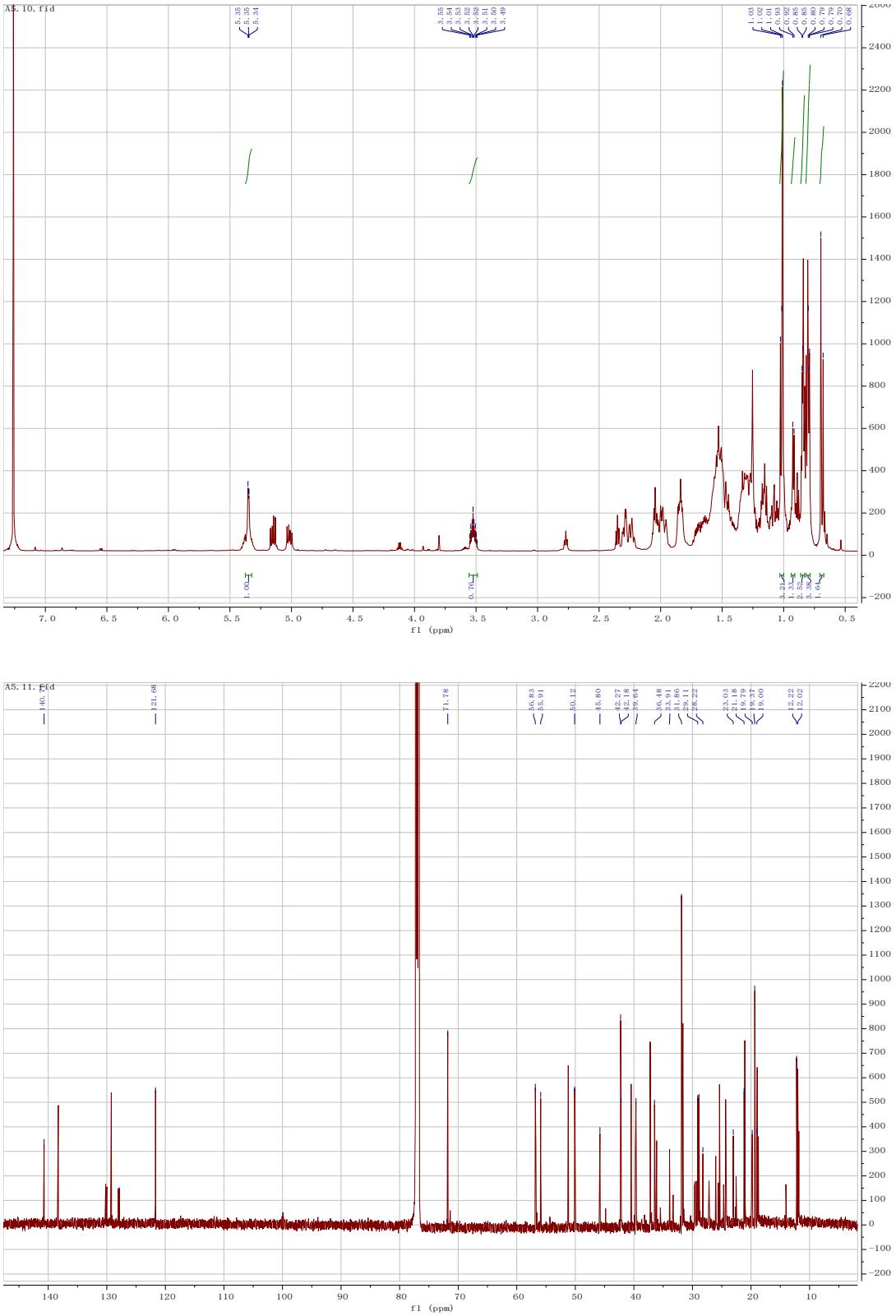



**Fig. S1** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **1**

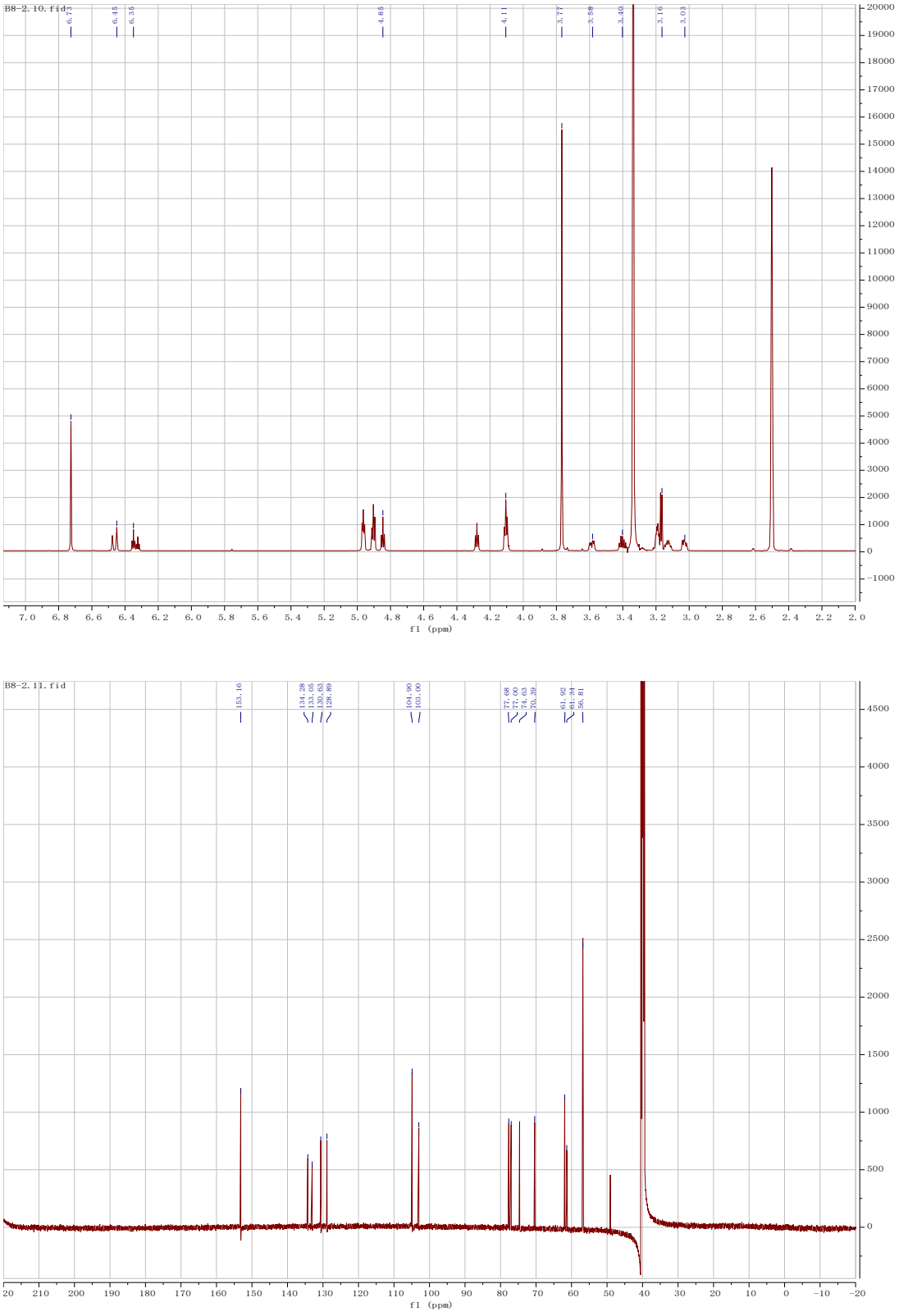



**Fig. S2** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **2**

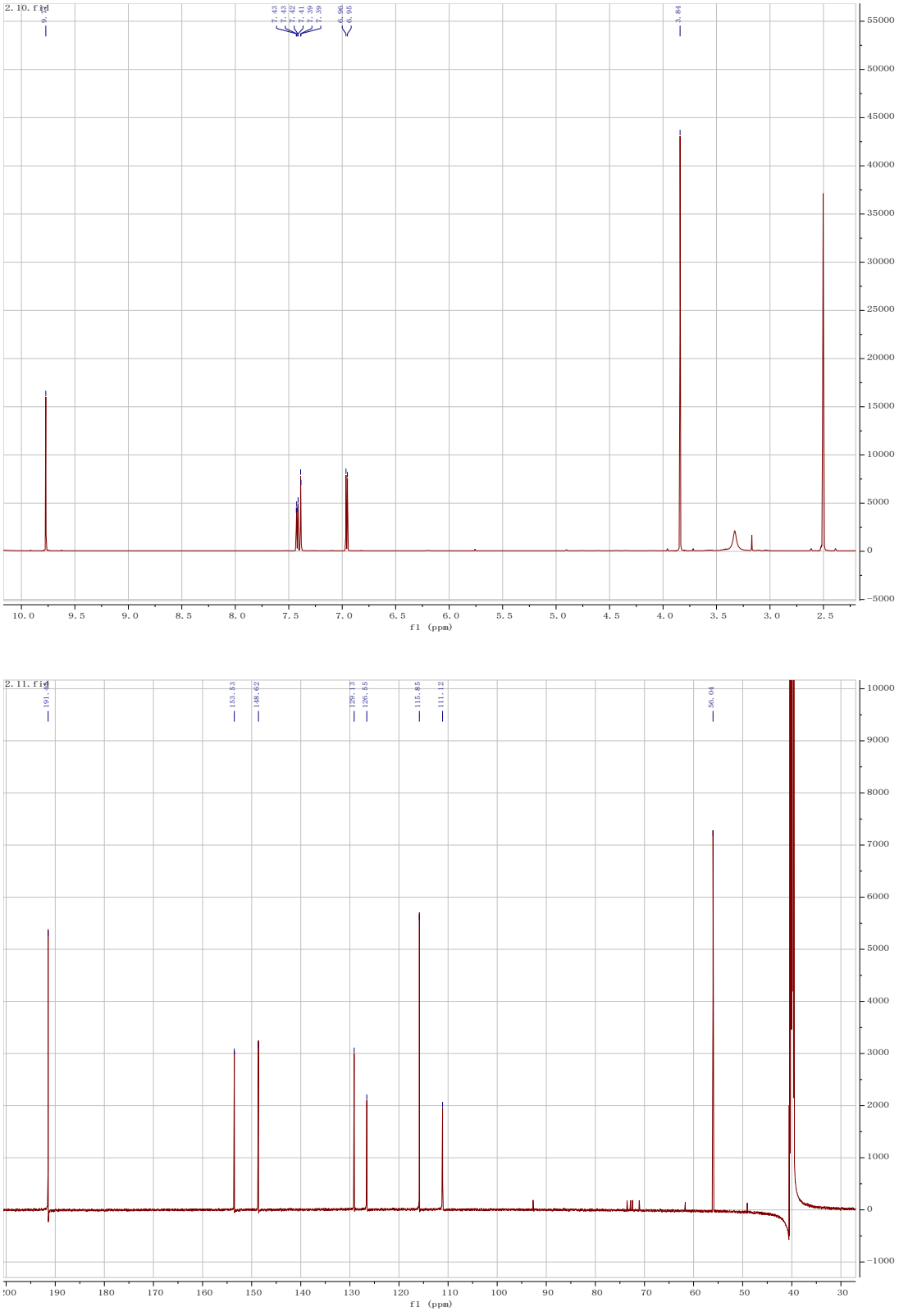



**Fig. S3** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **3**

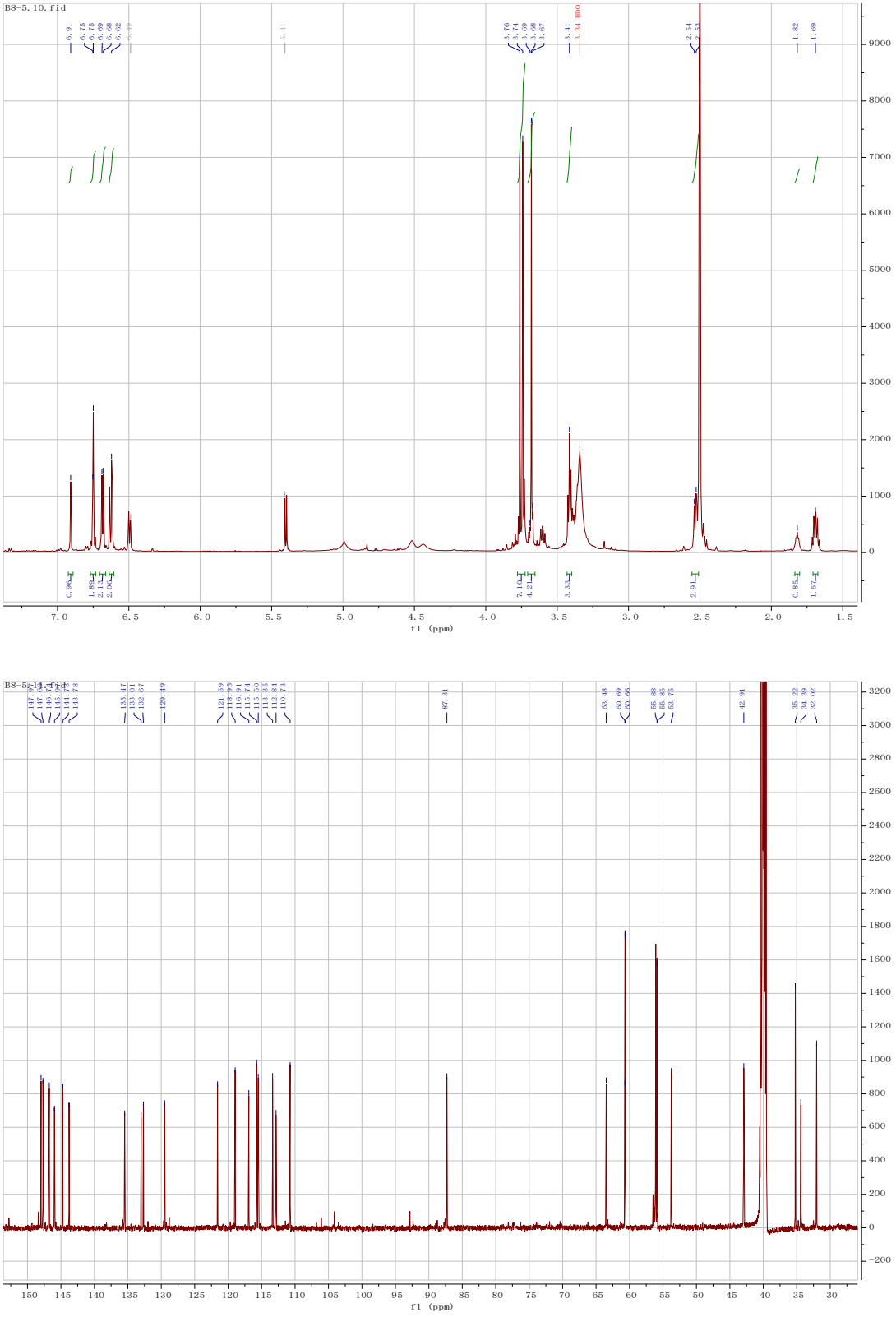



**Fig. S4** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **4**

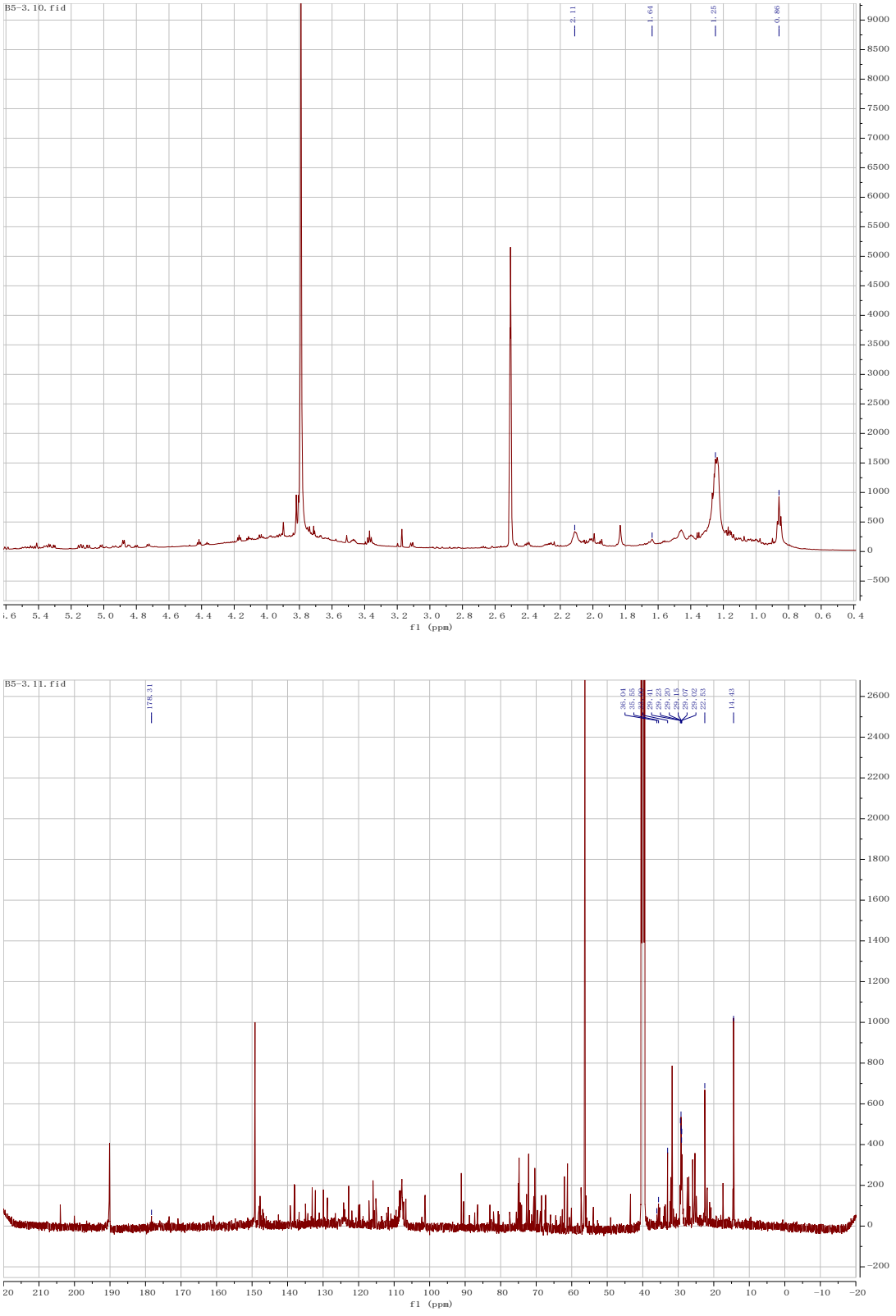



**Fig. S5** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **5**

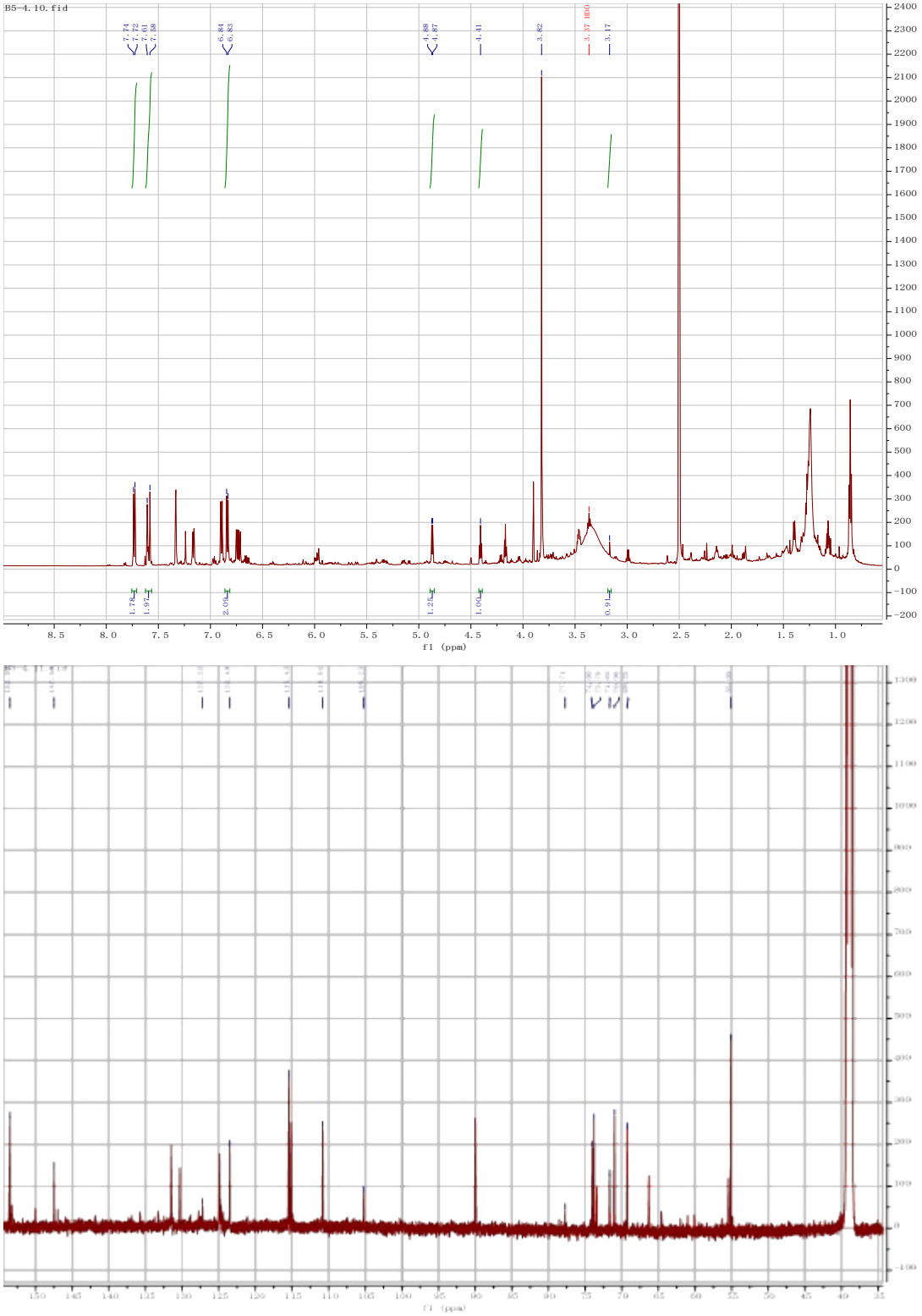



**Fig. S6** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **6**

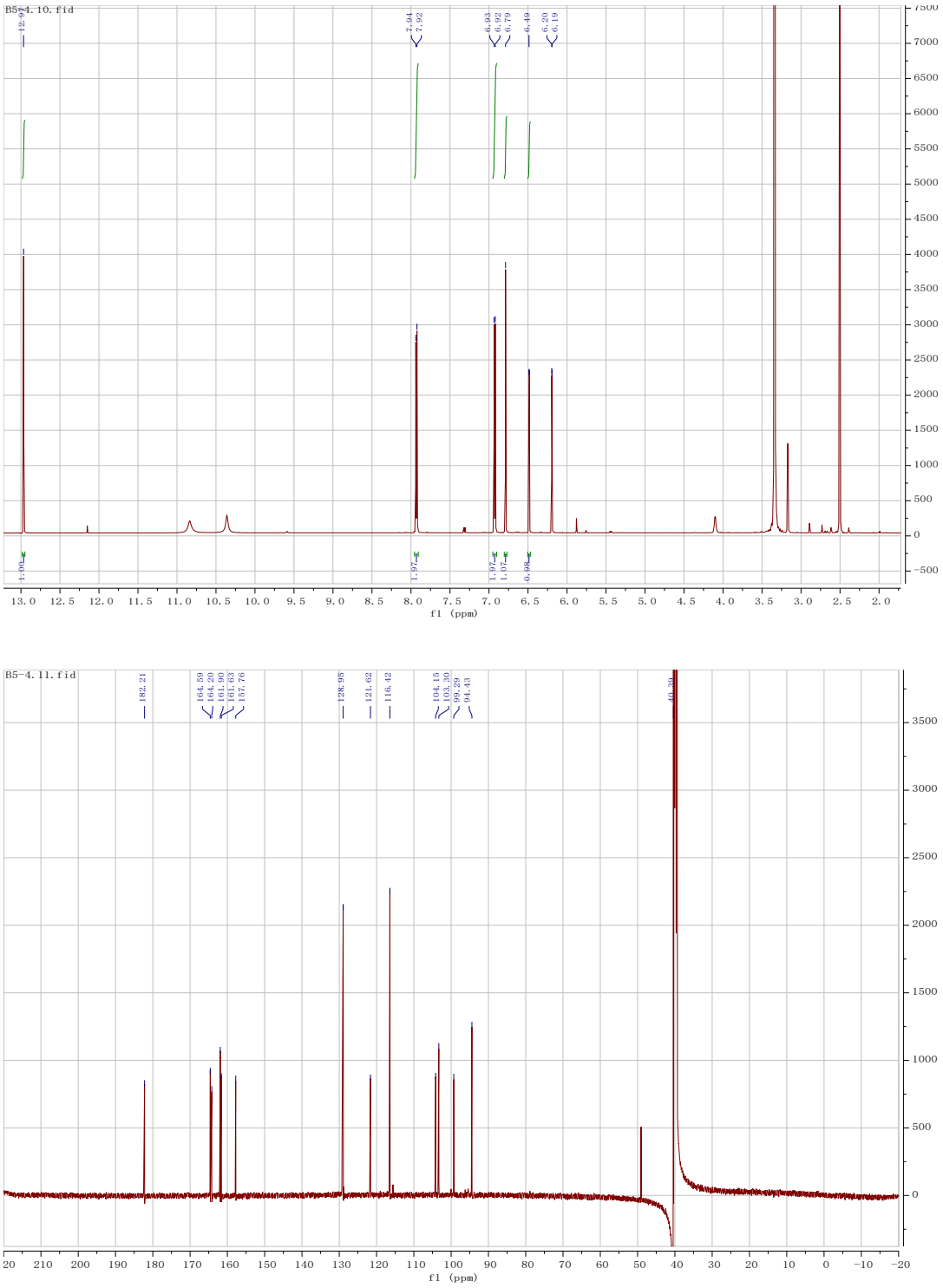
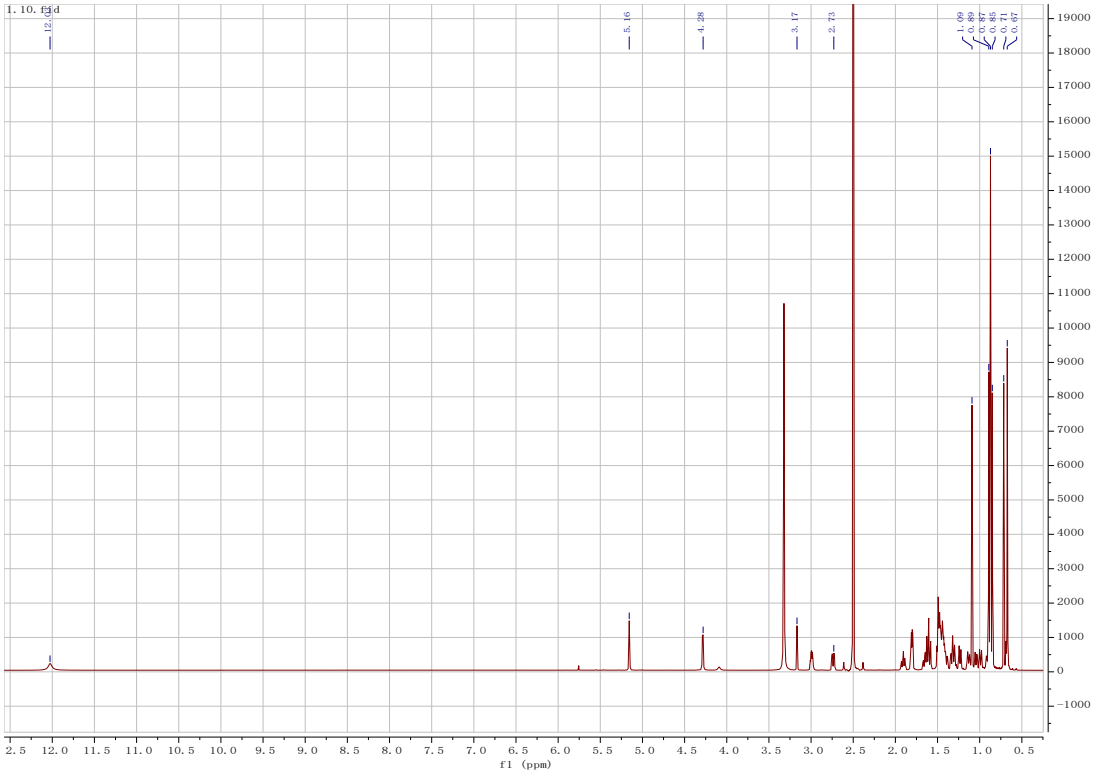



**Fig. S7** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **7**



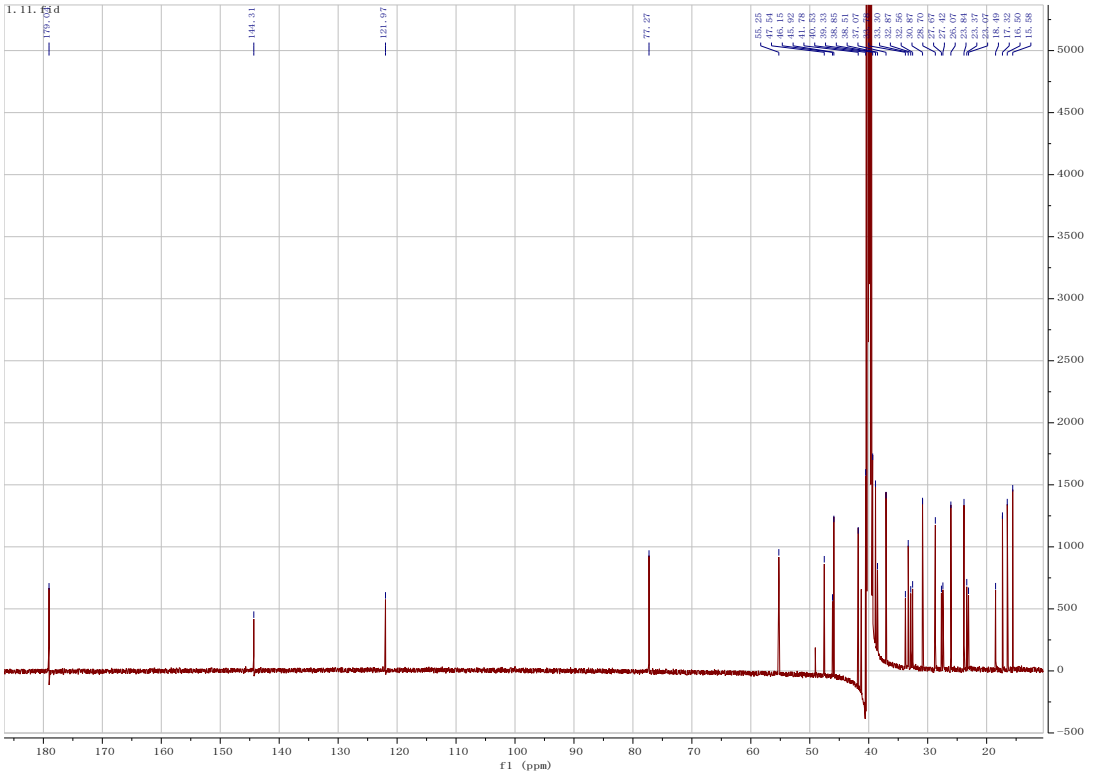




**Fig. S8** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **8**

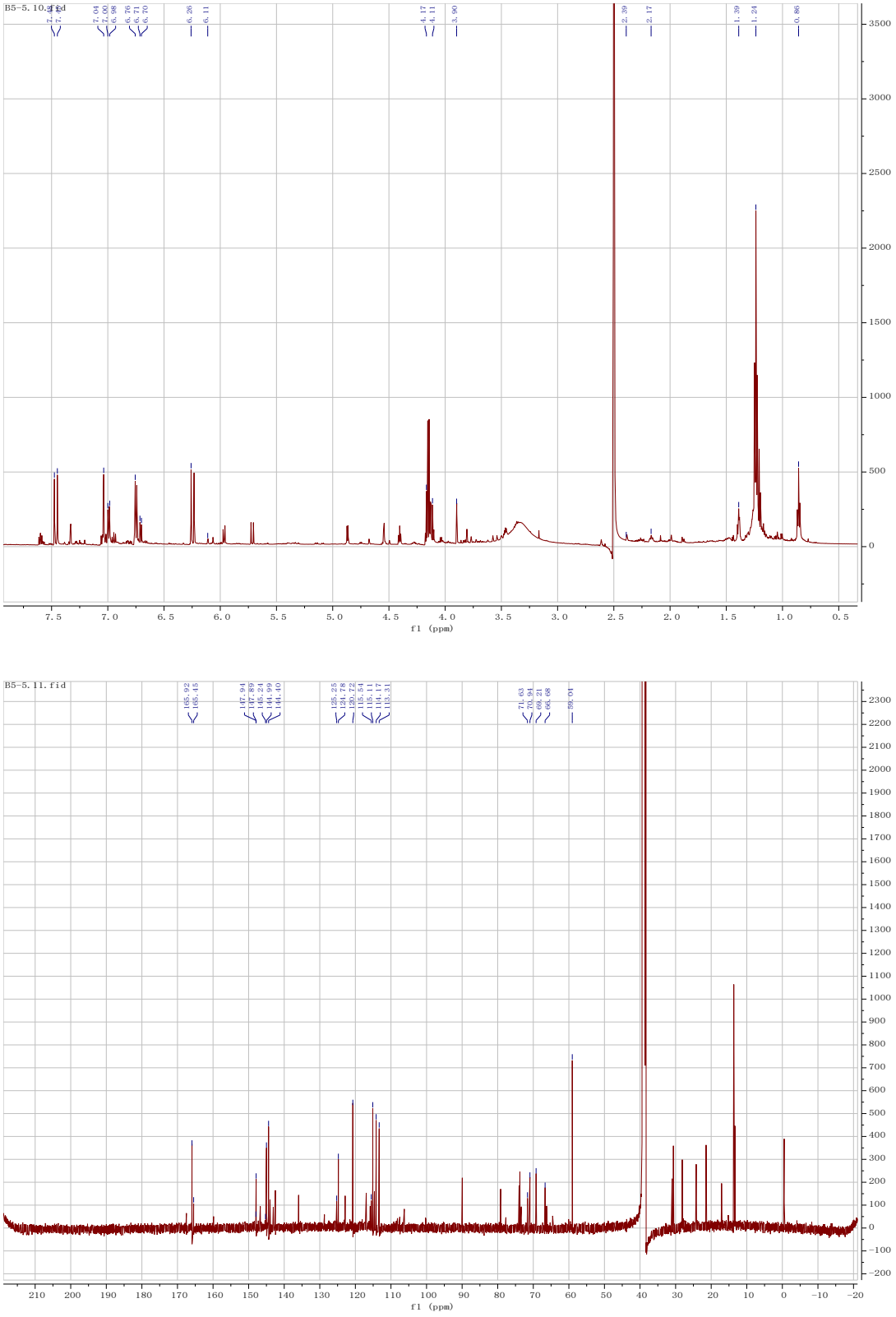



**Fig. S9** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **9**

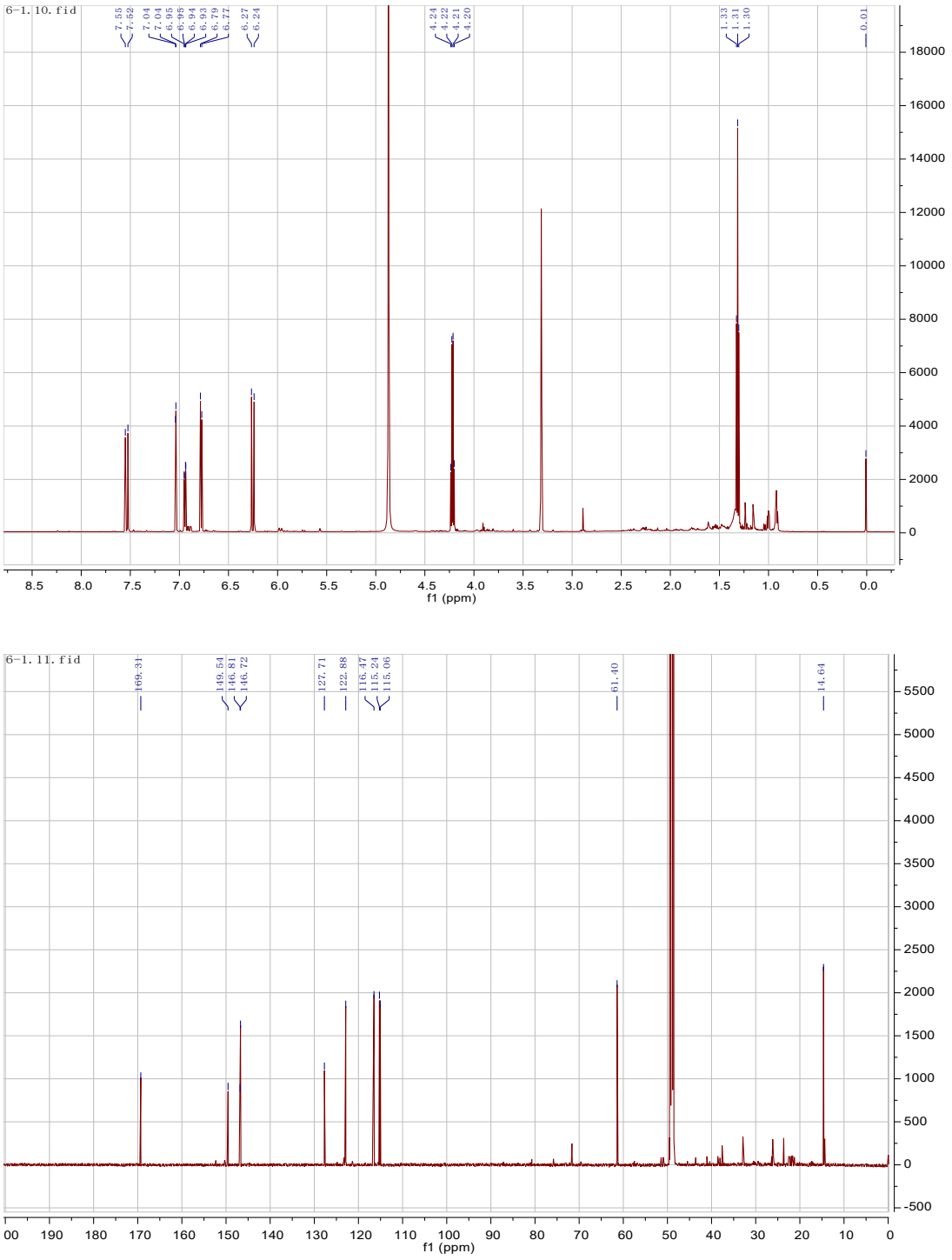



**Fig. S10** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **10**

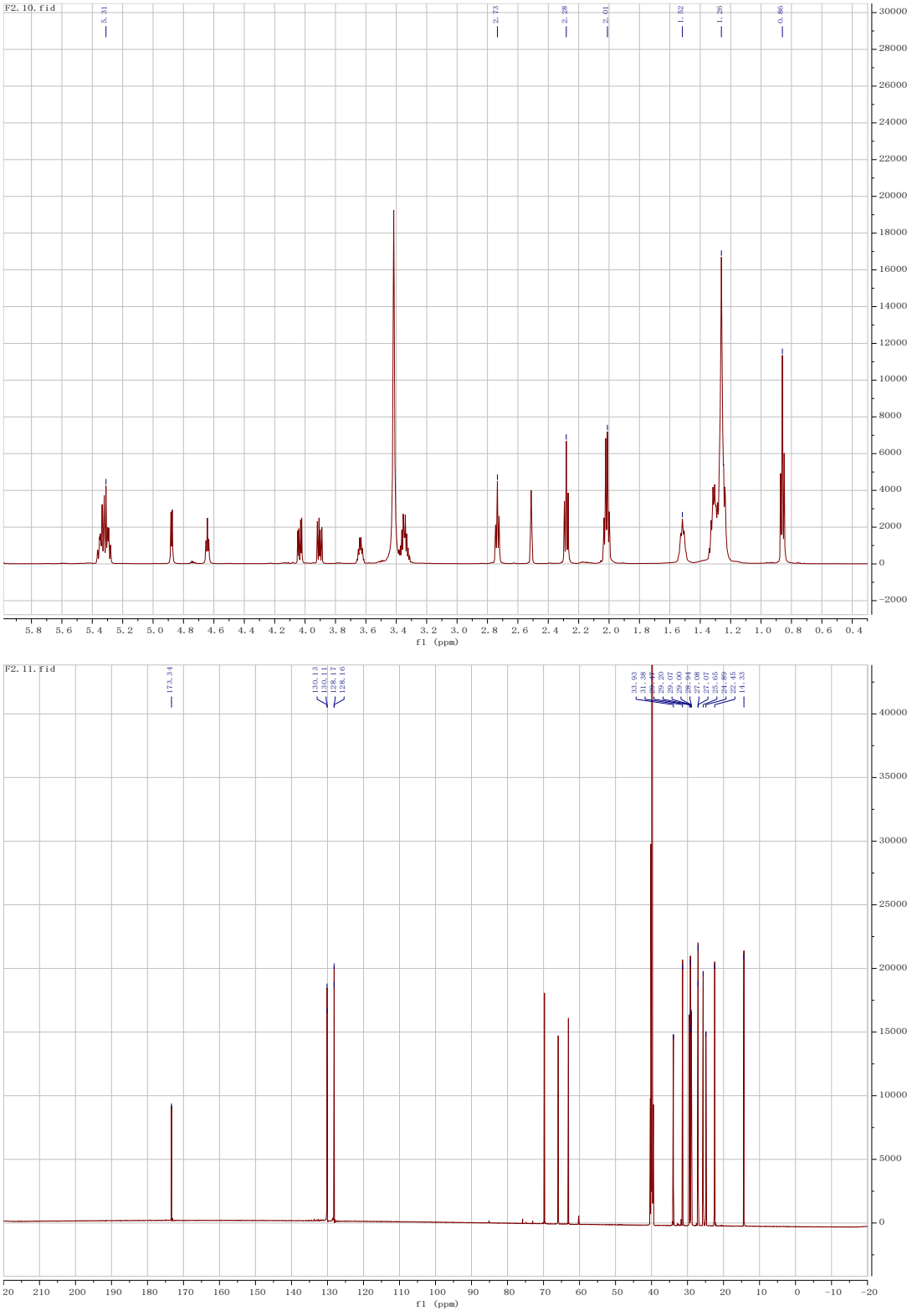



**Fig. S11** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **11**

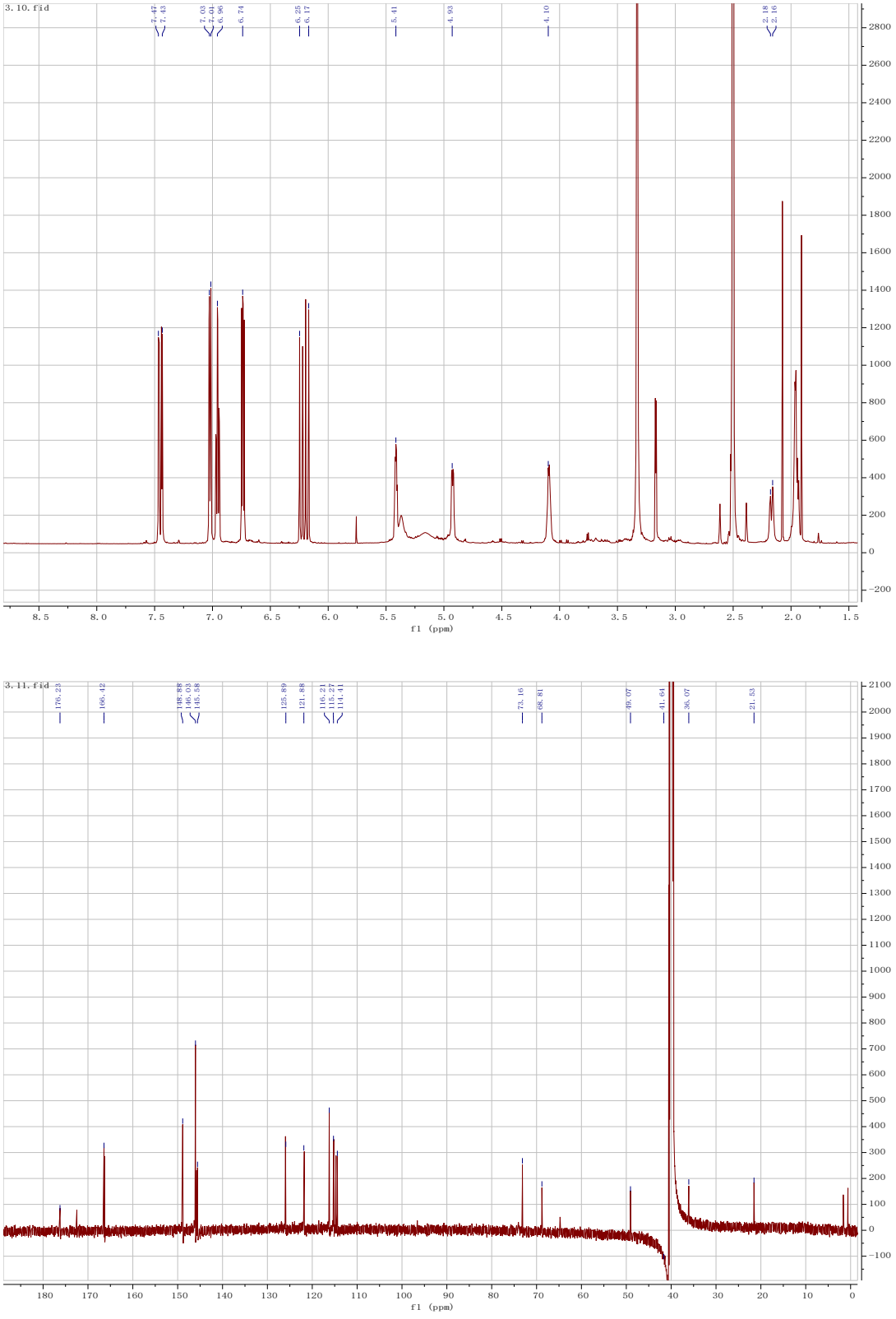



**Fig. S12** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **12**

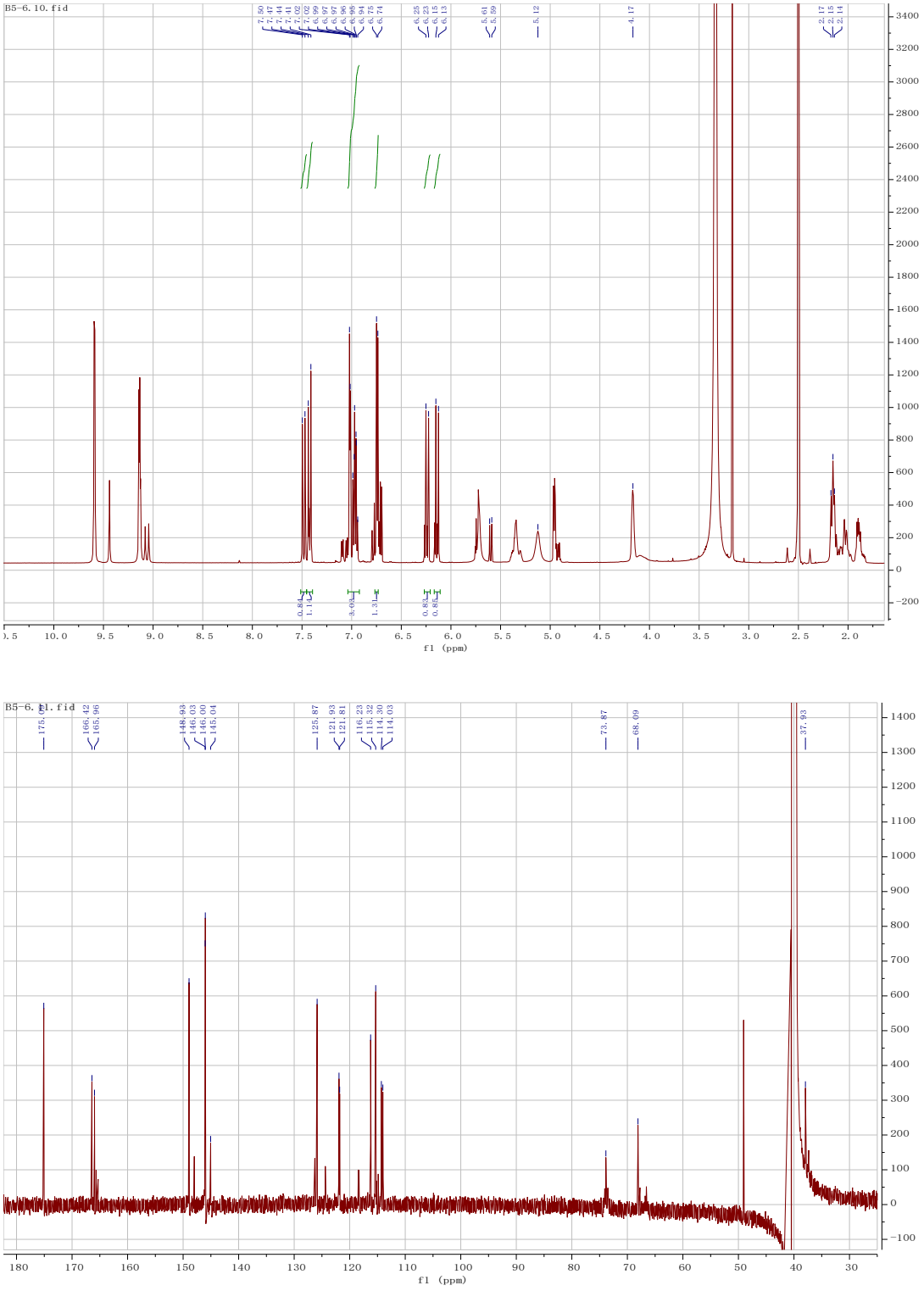



**Fig. S13** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **13**

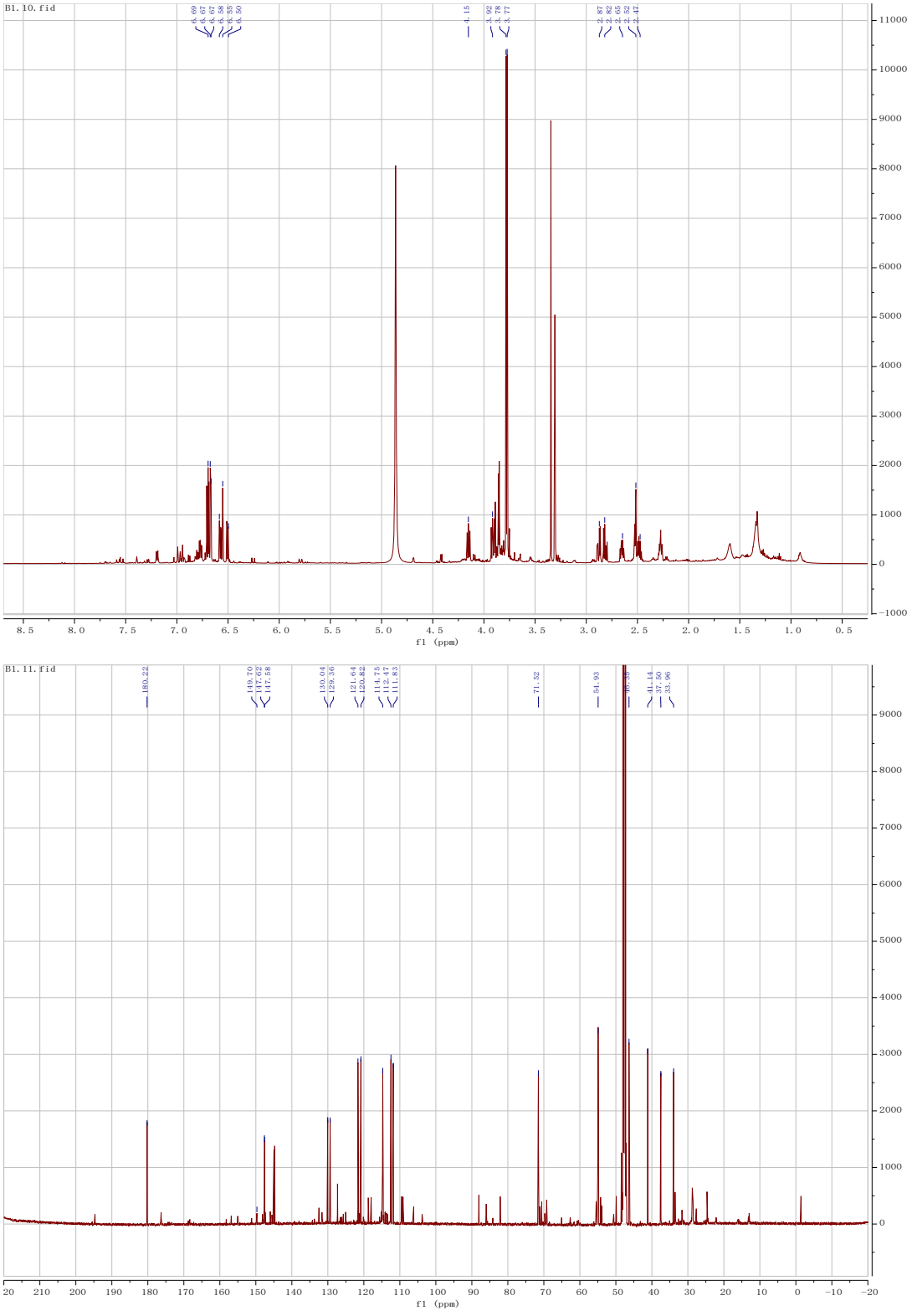
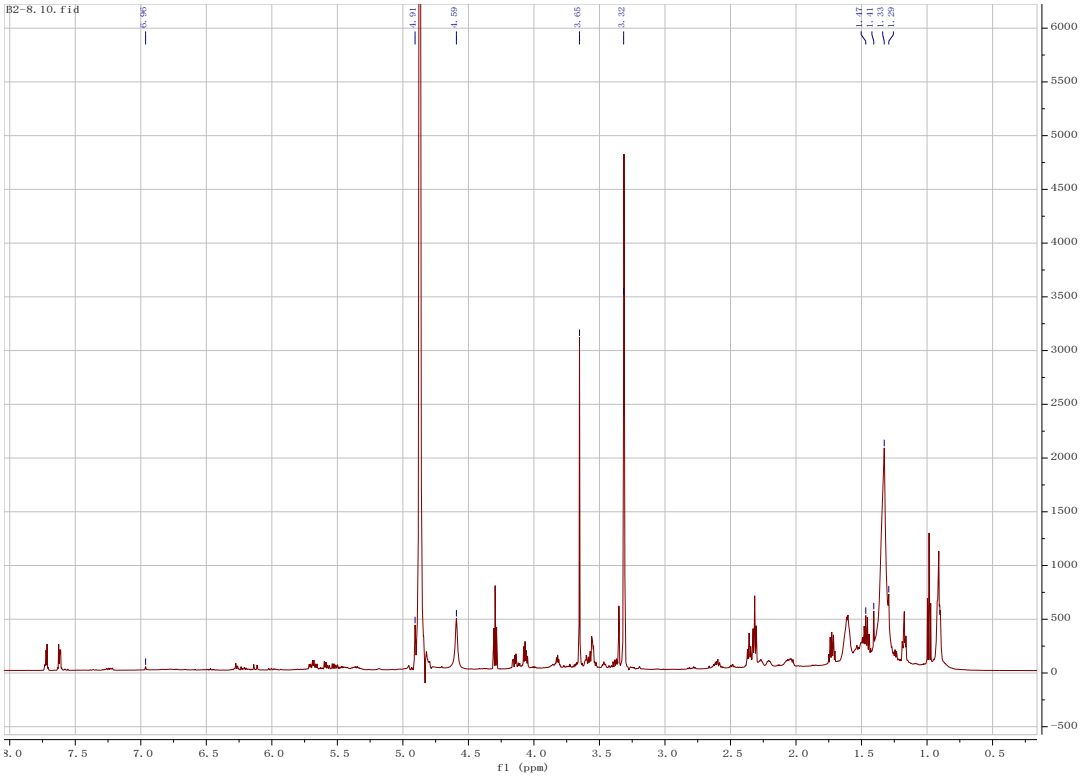



**Fig. S14** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **14**




H-NMR

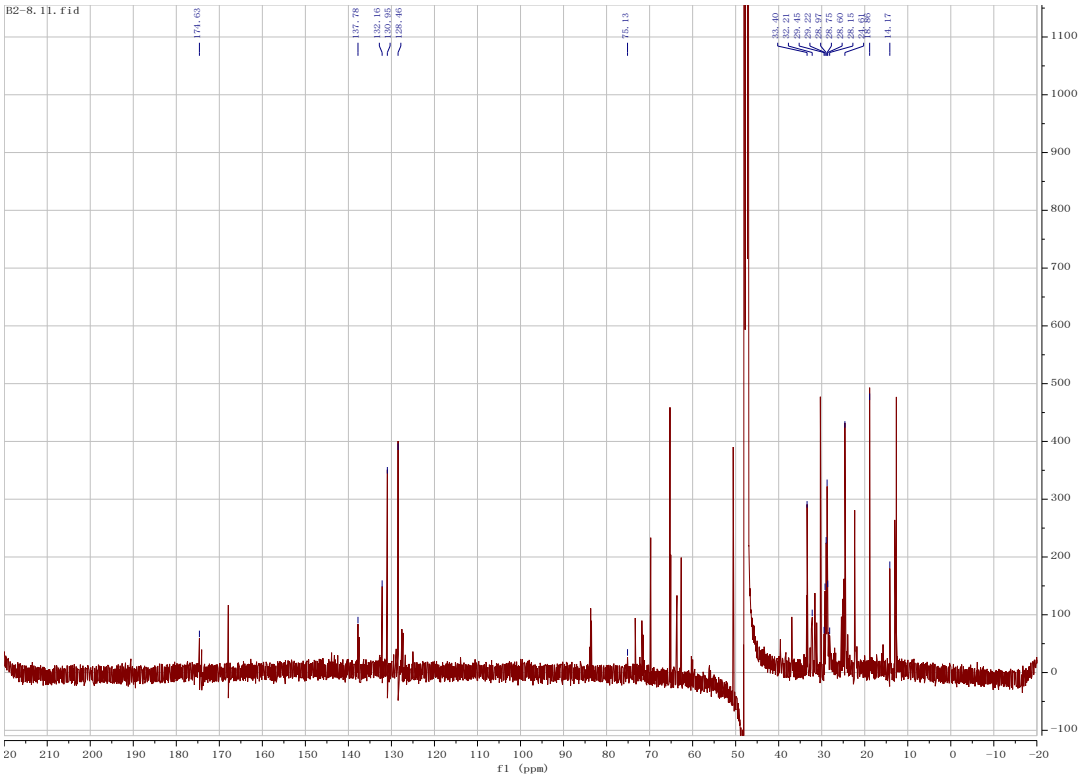



**Fig. S15** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **15**

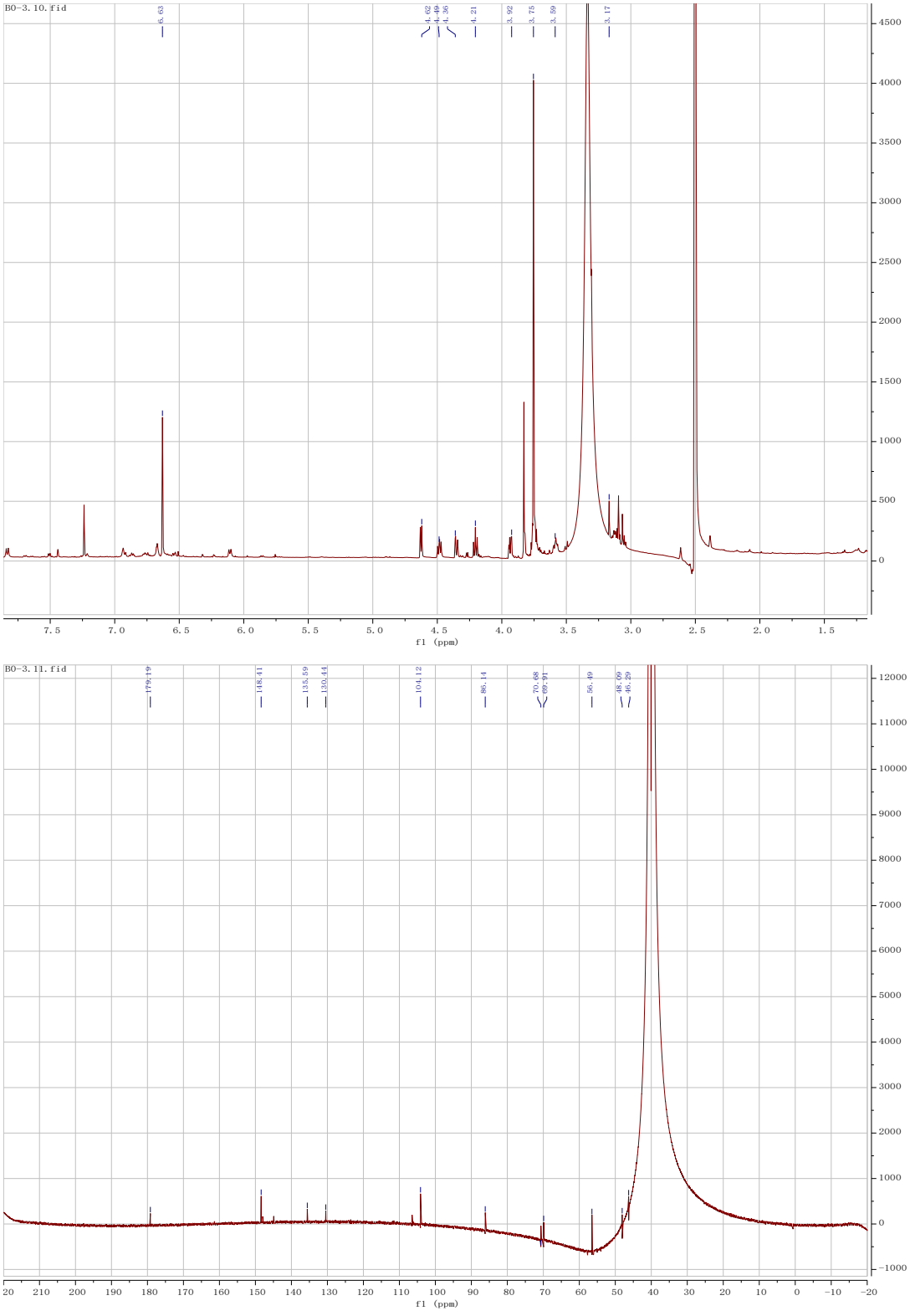



**Fig. S16** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **16**

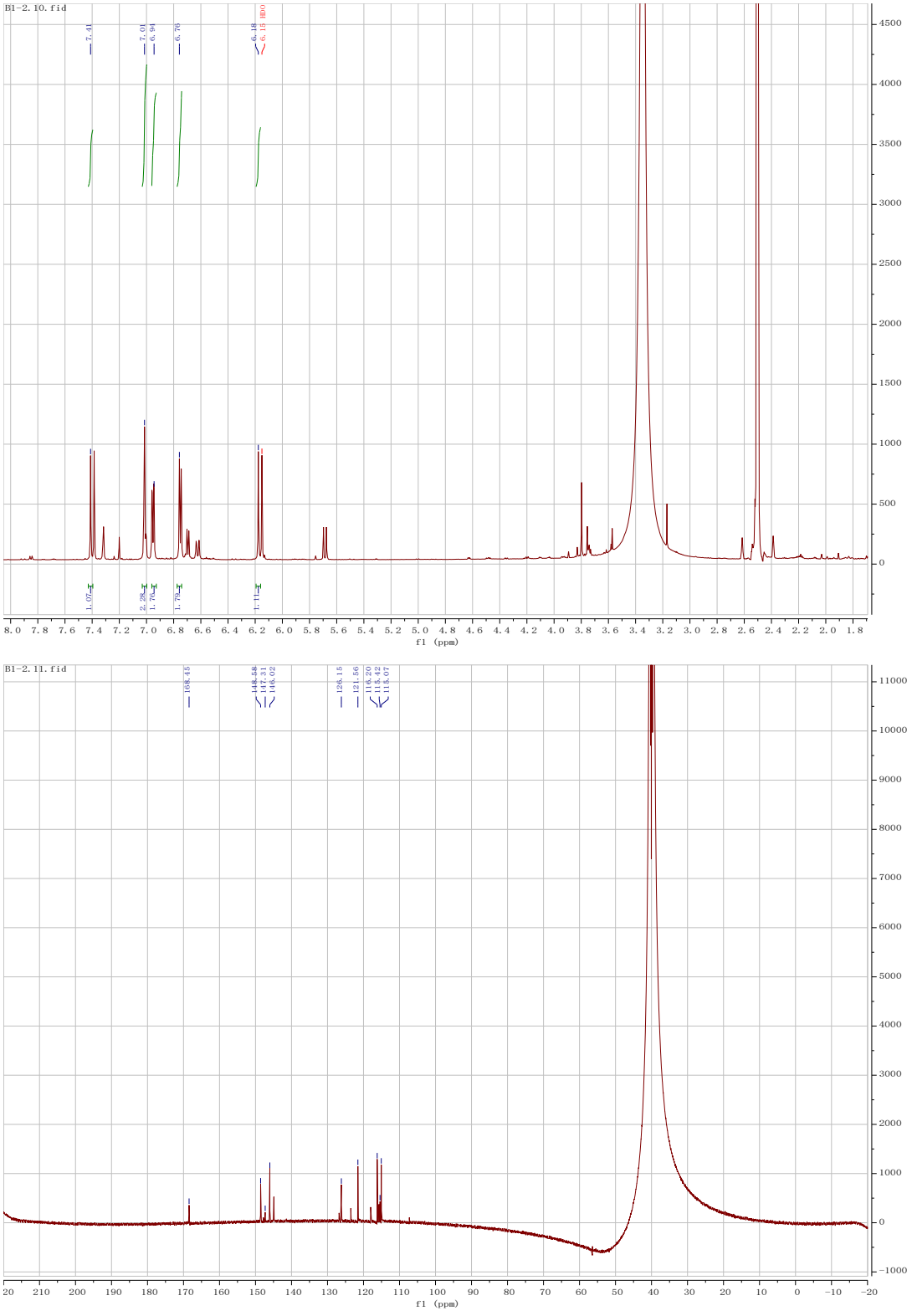



**Fig. S17** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **17**

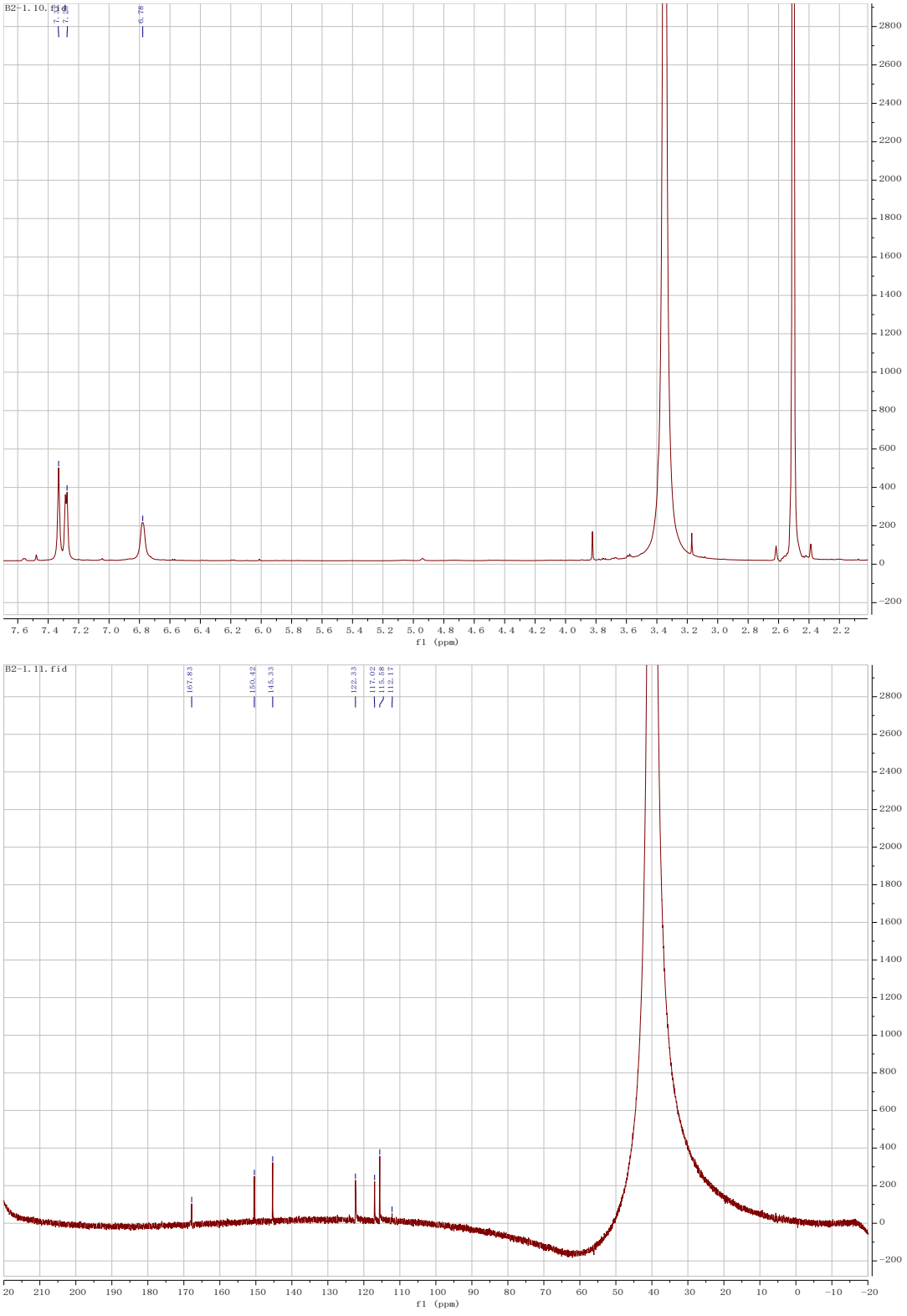



**Fig. S18** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **18**

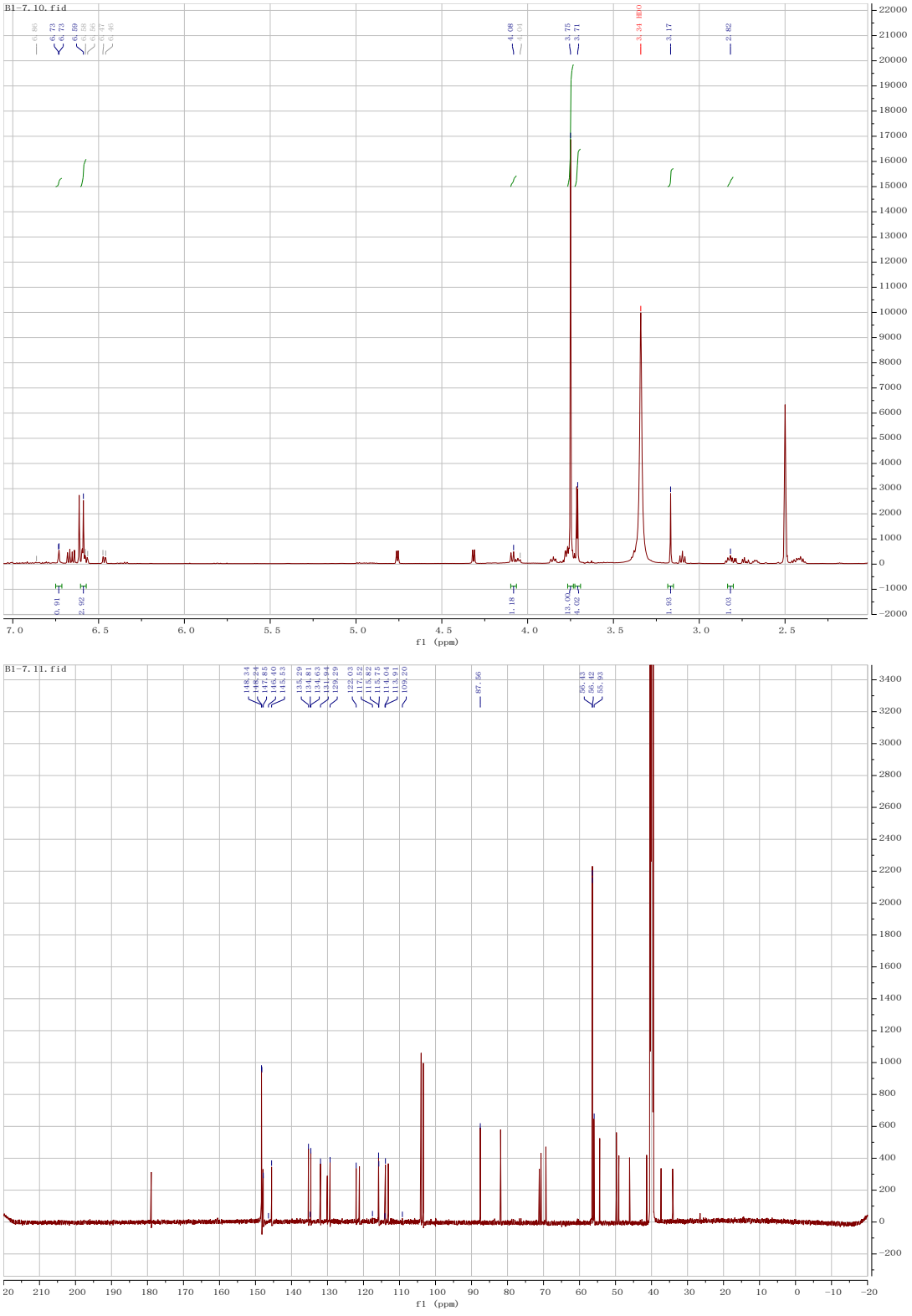



**Fig. S19** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **19**

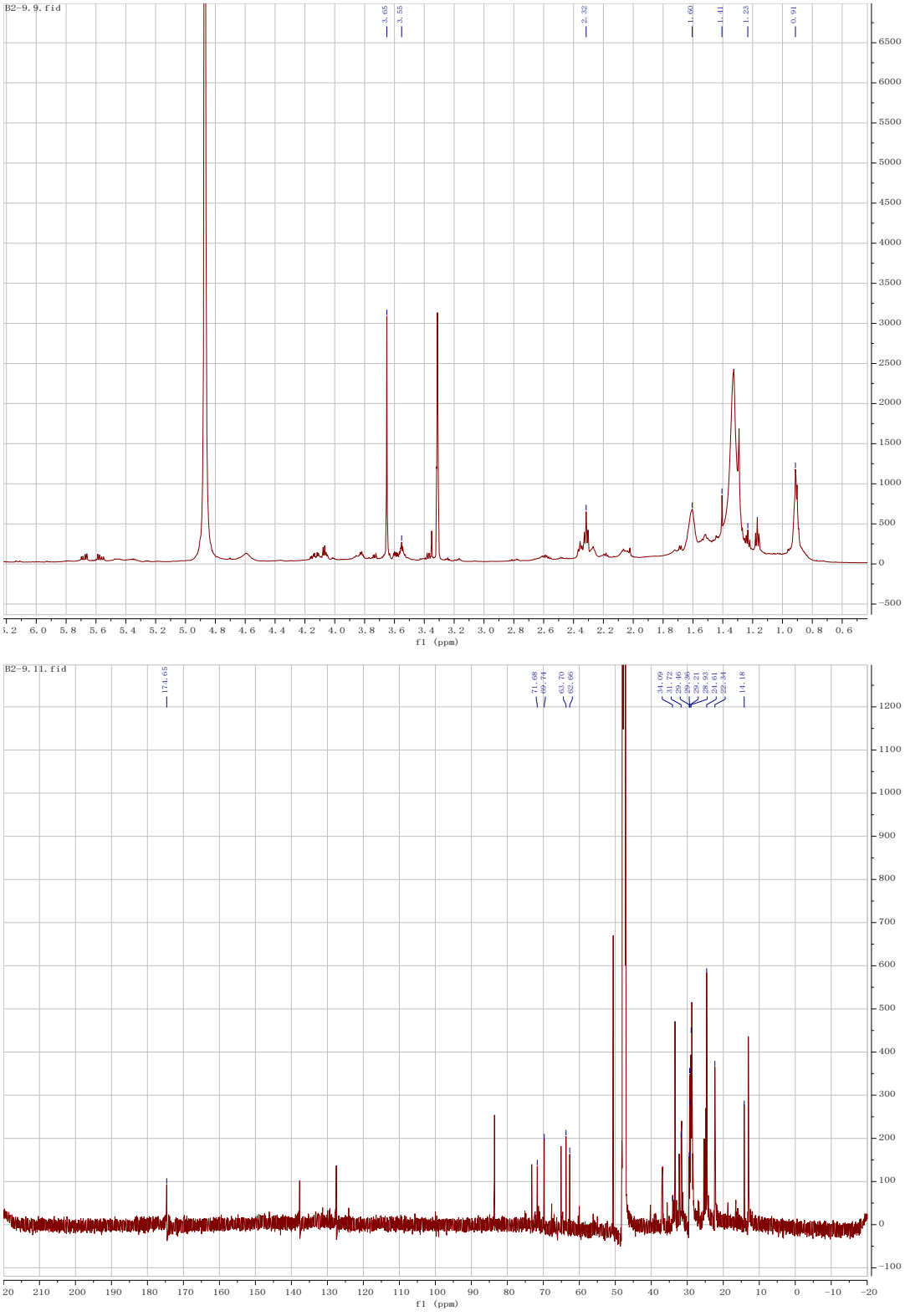



**Fig. S20** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **20**

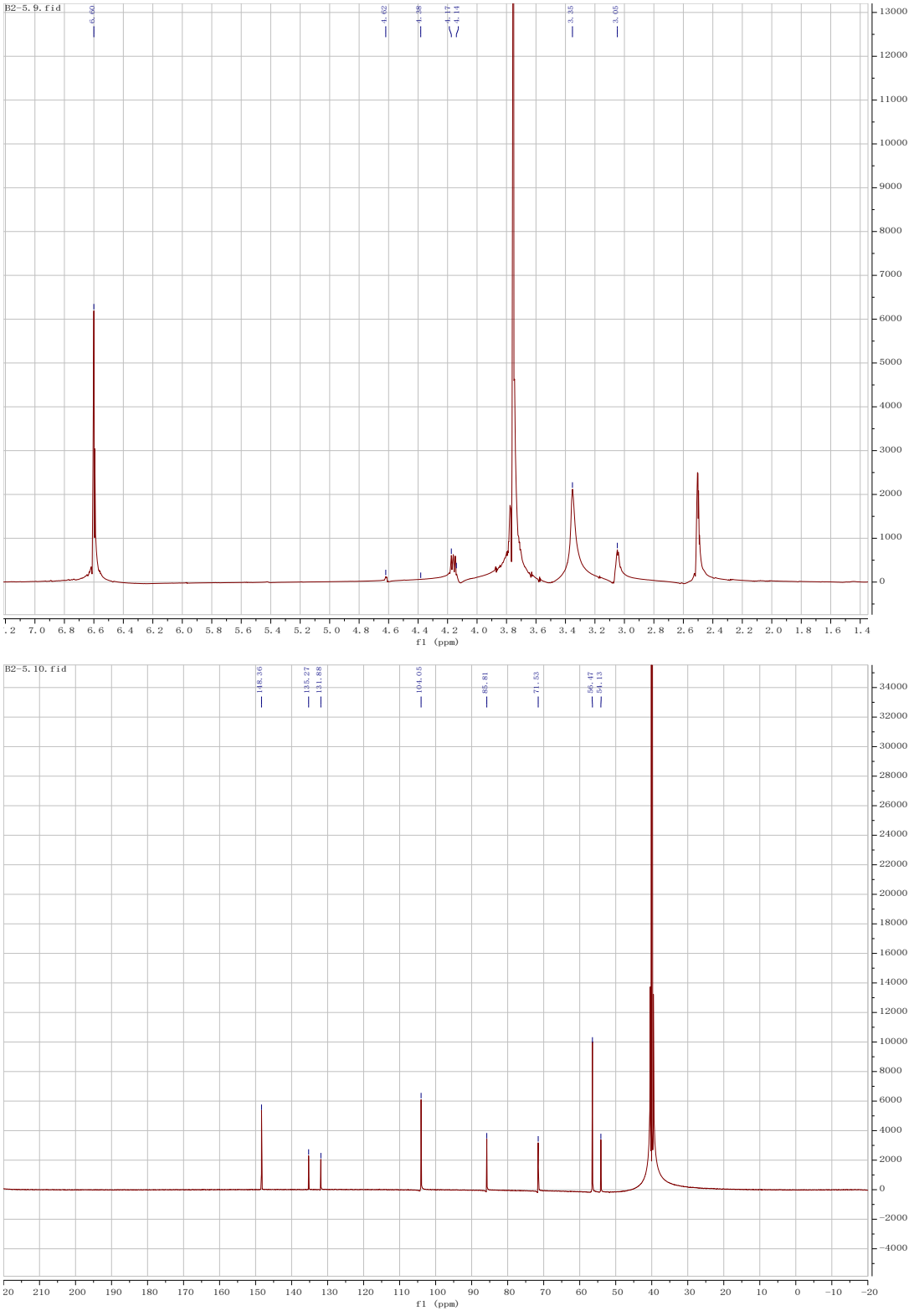



**Fig. S21** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **21**

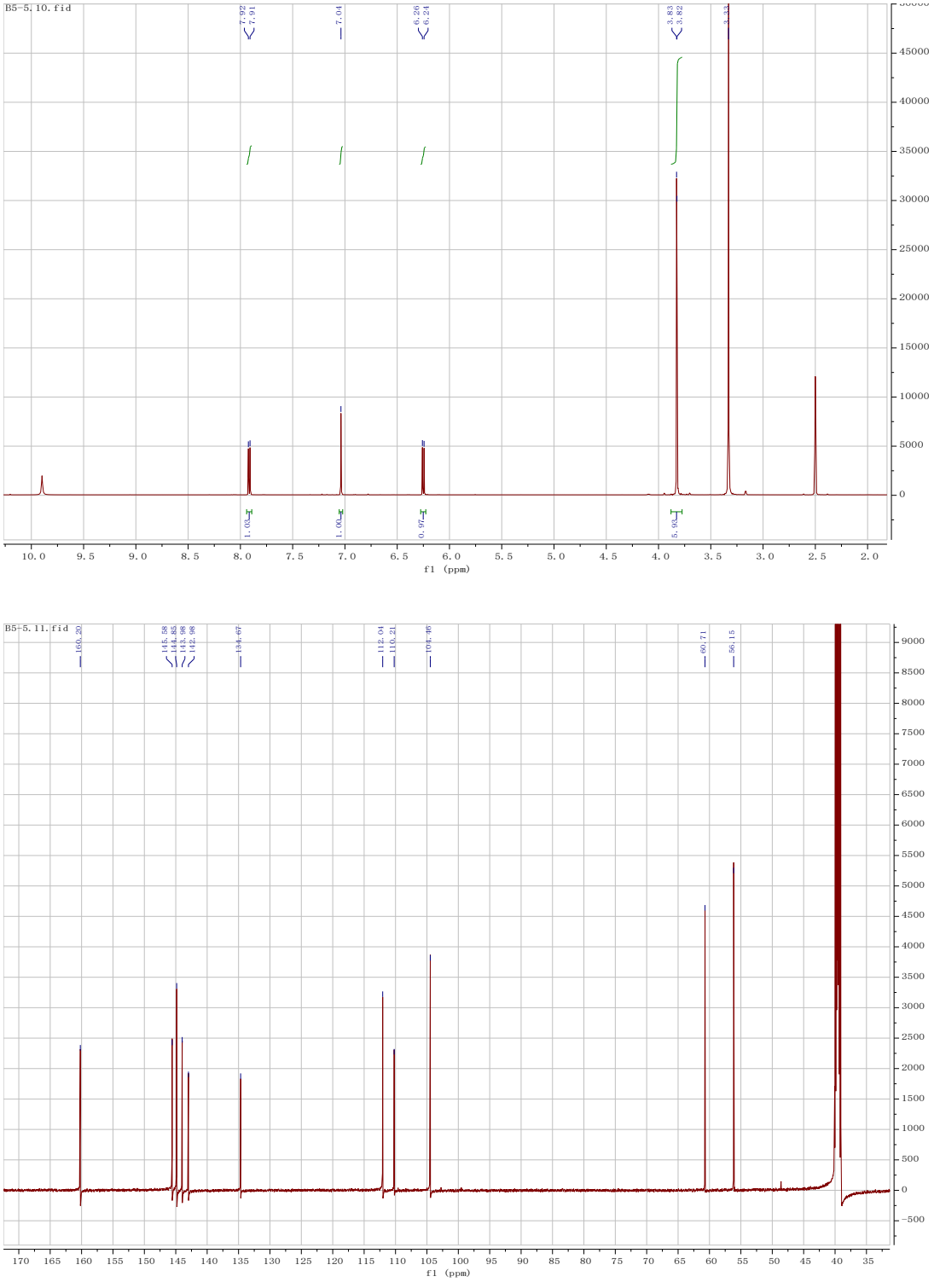



**Fig. S22** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **22**

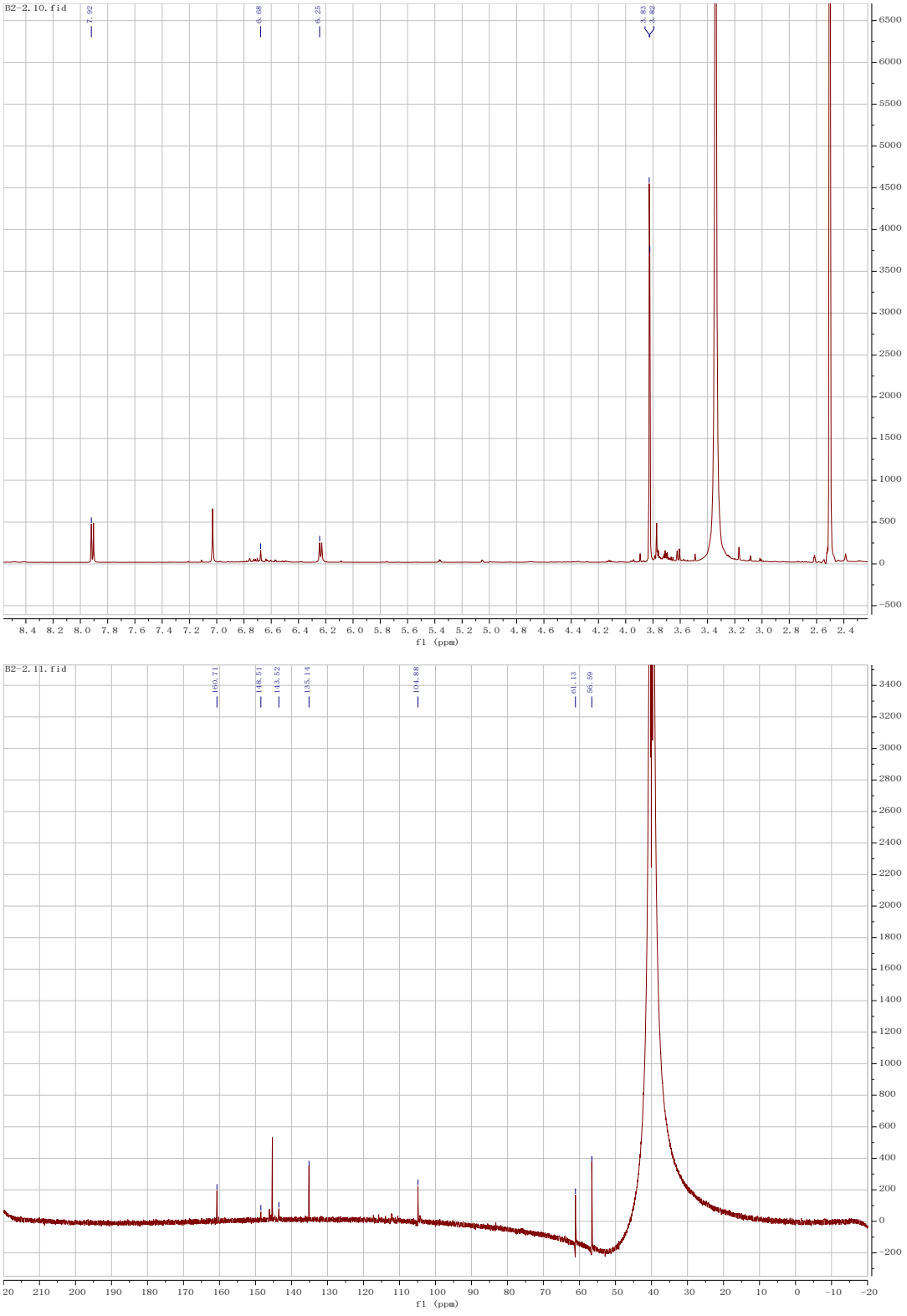
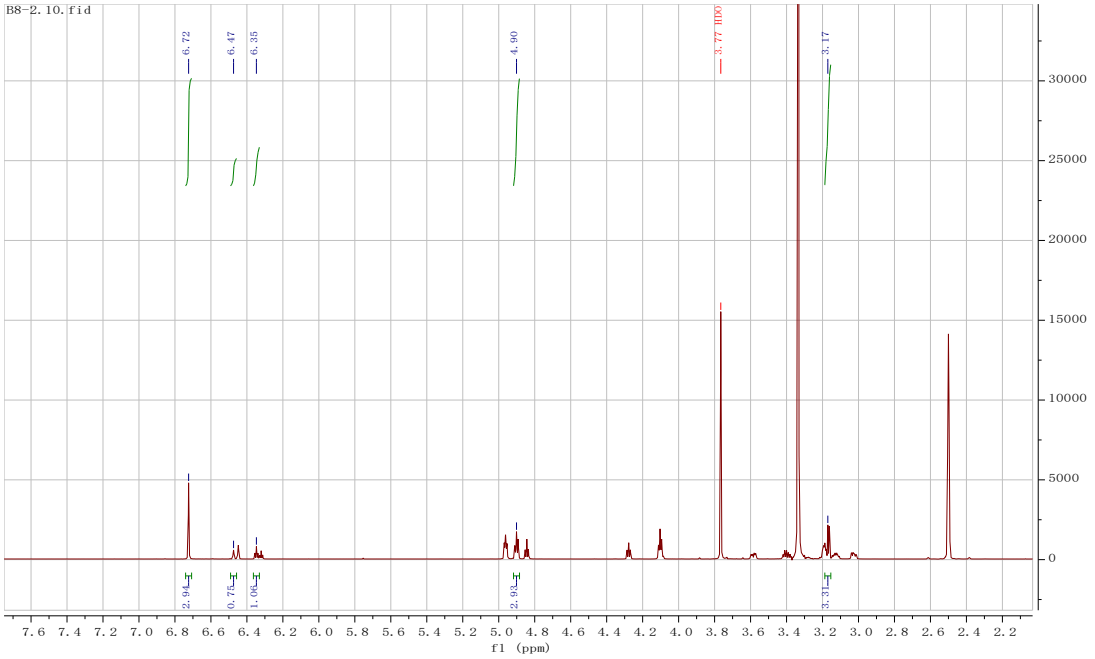



**Fig. S23** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **23**



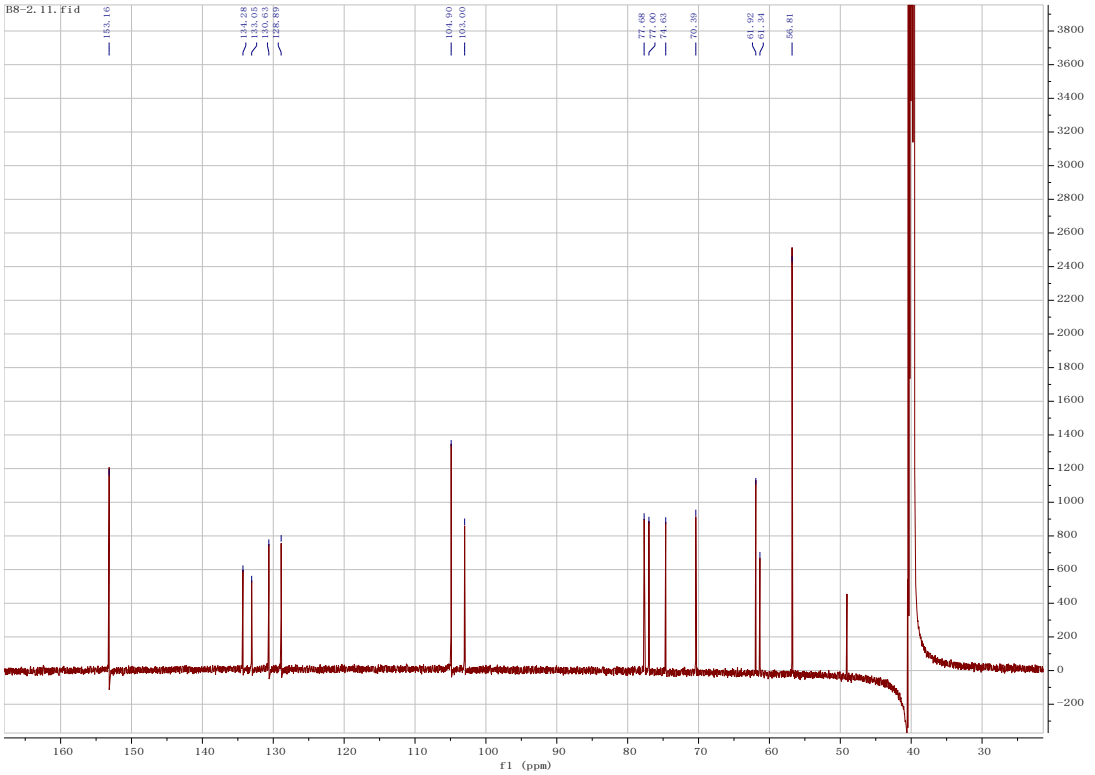




**Fig. S24** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **24**

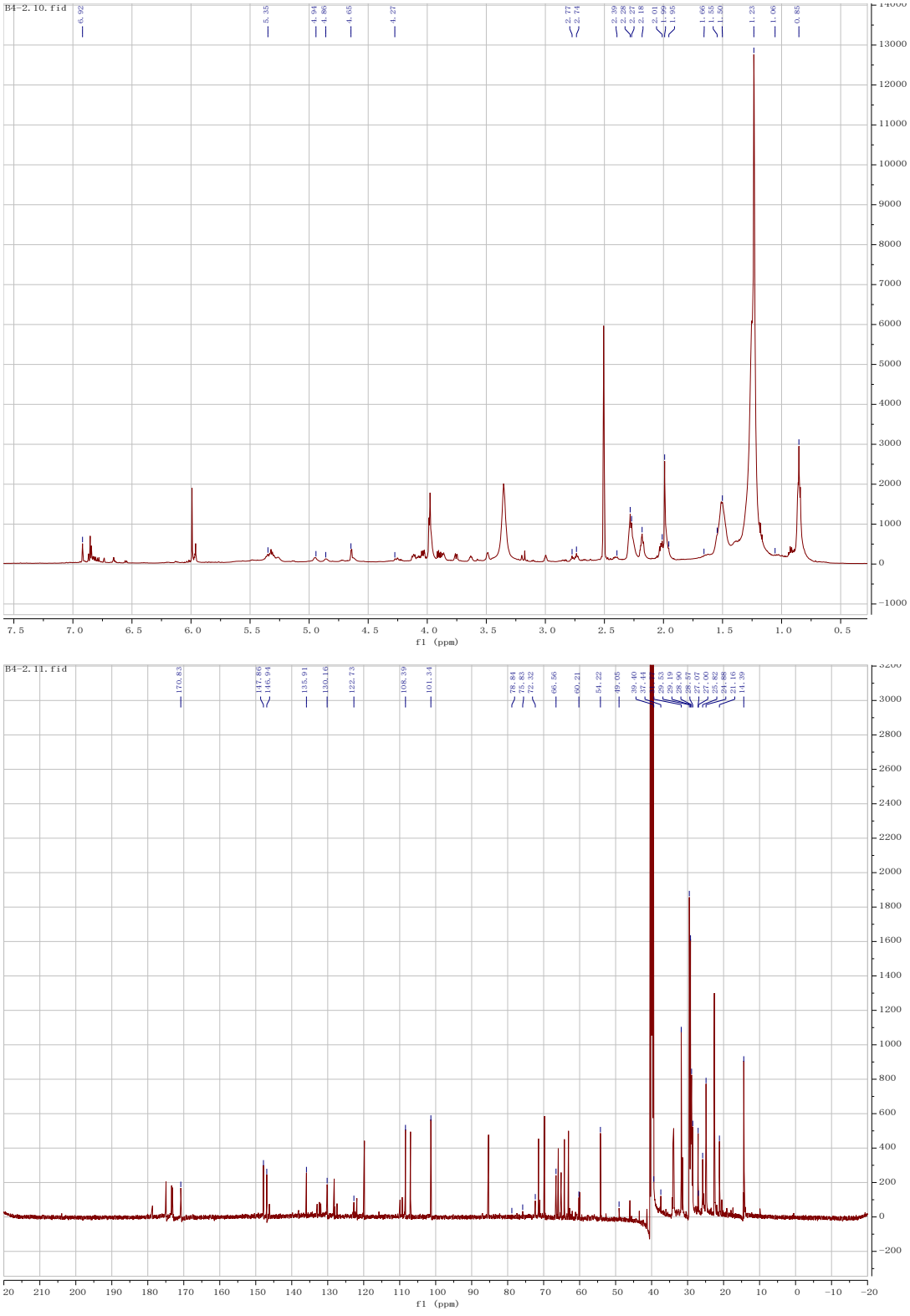



**Fig. S25** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **25**

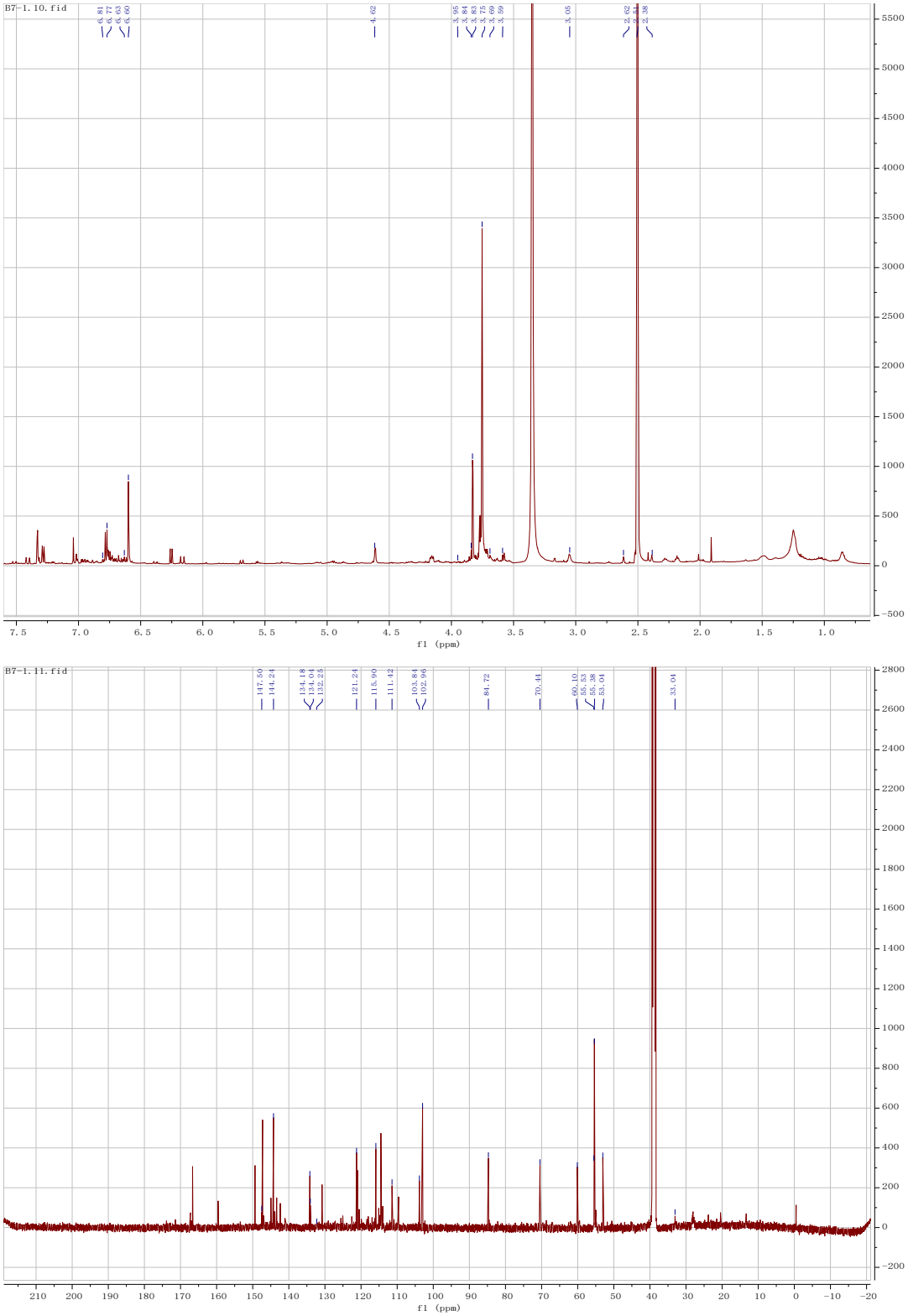



**Fig. S26** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **26**

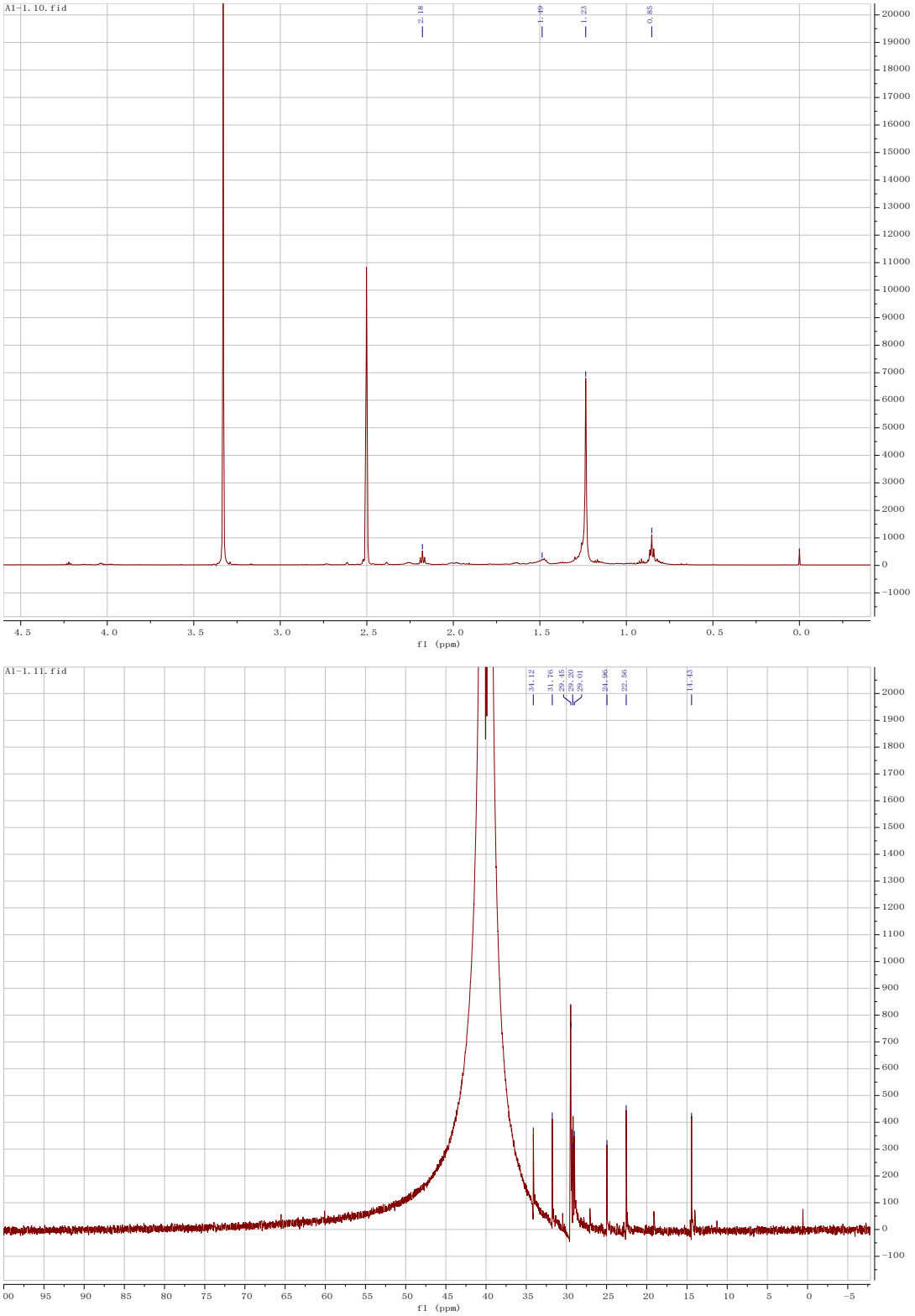



**Fig. S27** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **27**

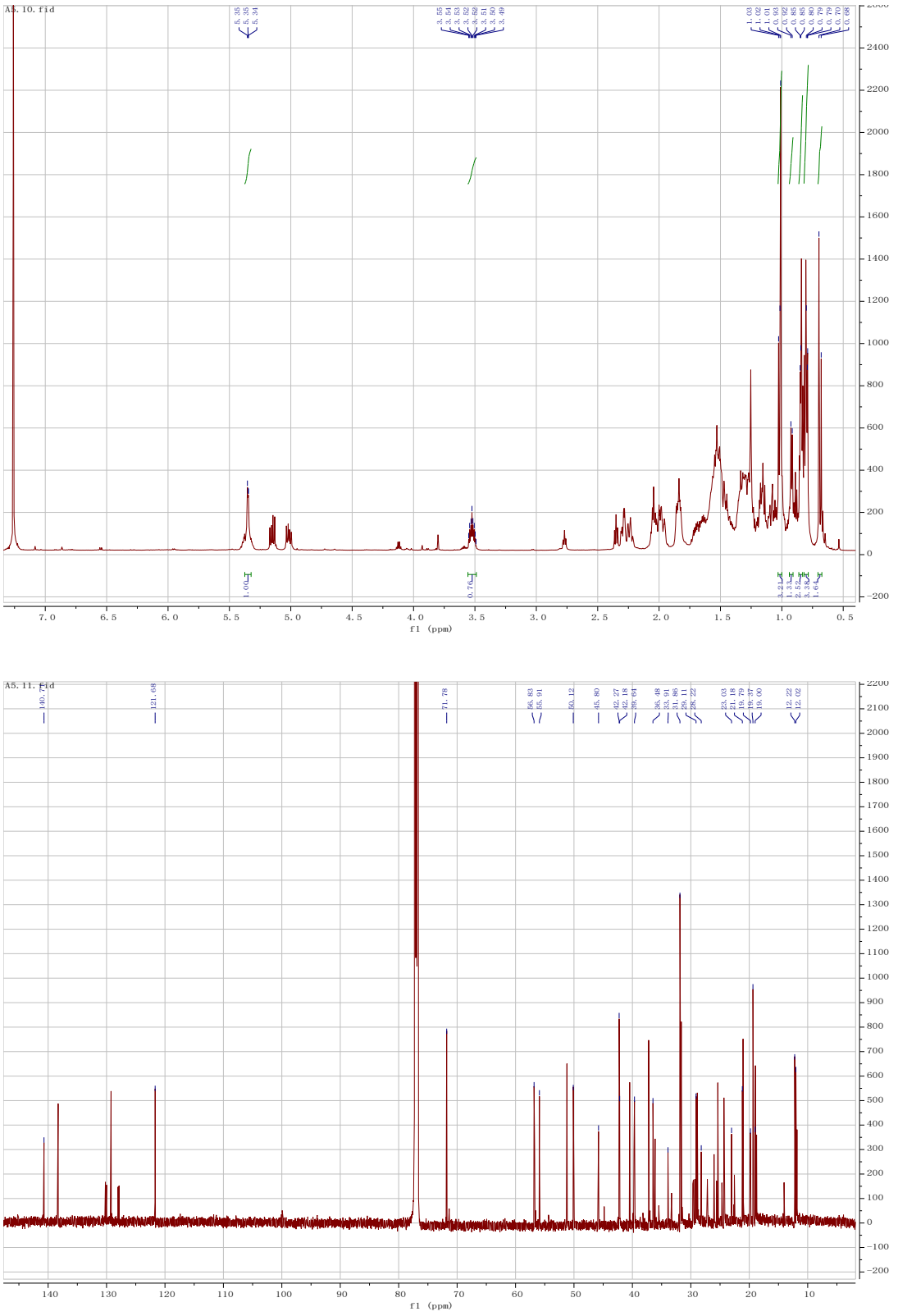



**Fig. S28** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **28**

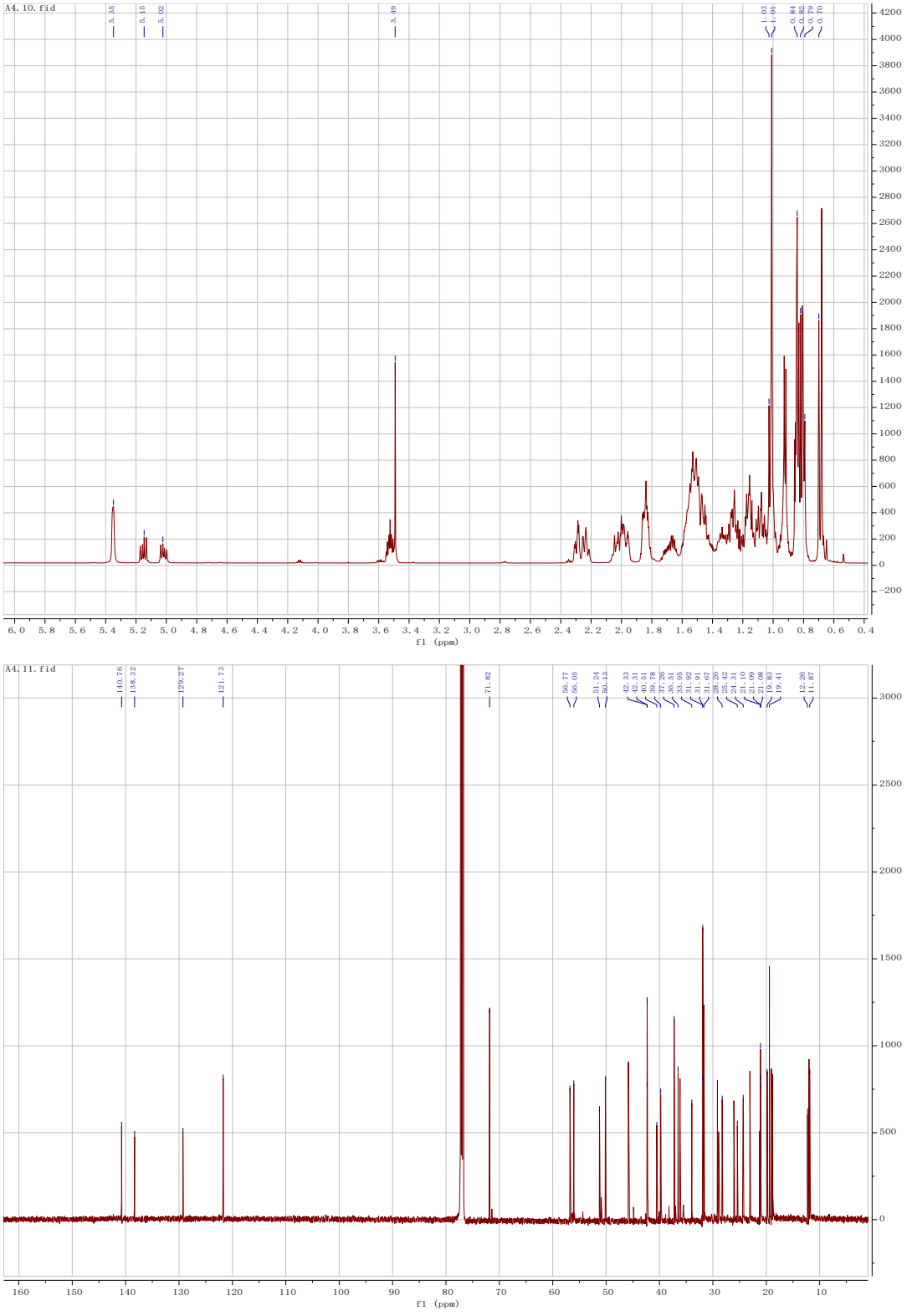



**Fig. S29** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **29**

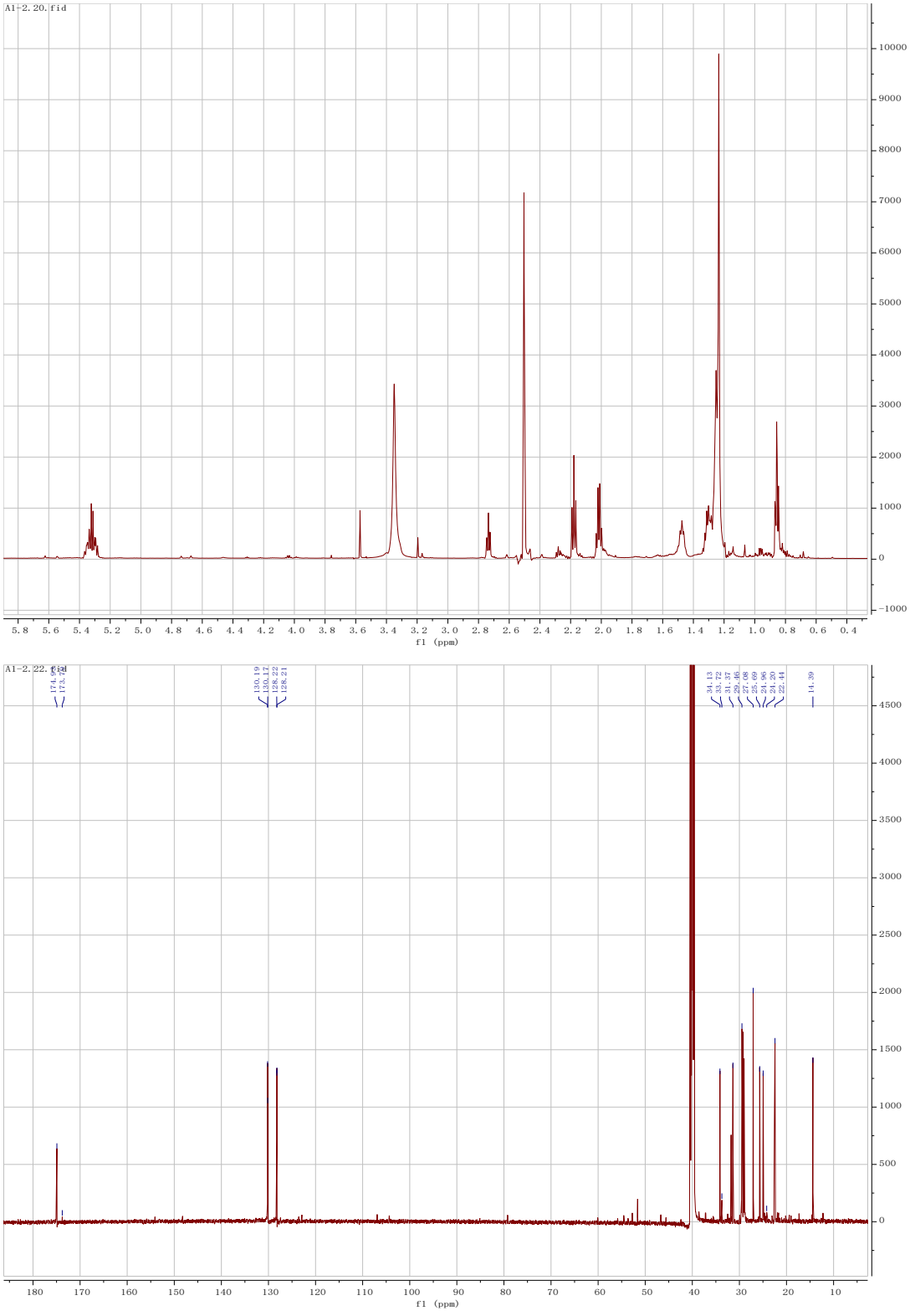



**Fig. S30** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **30**

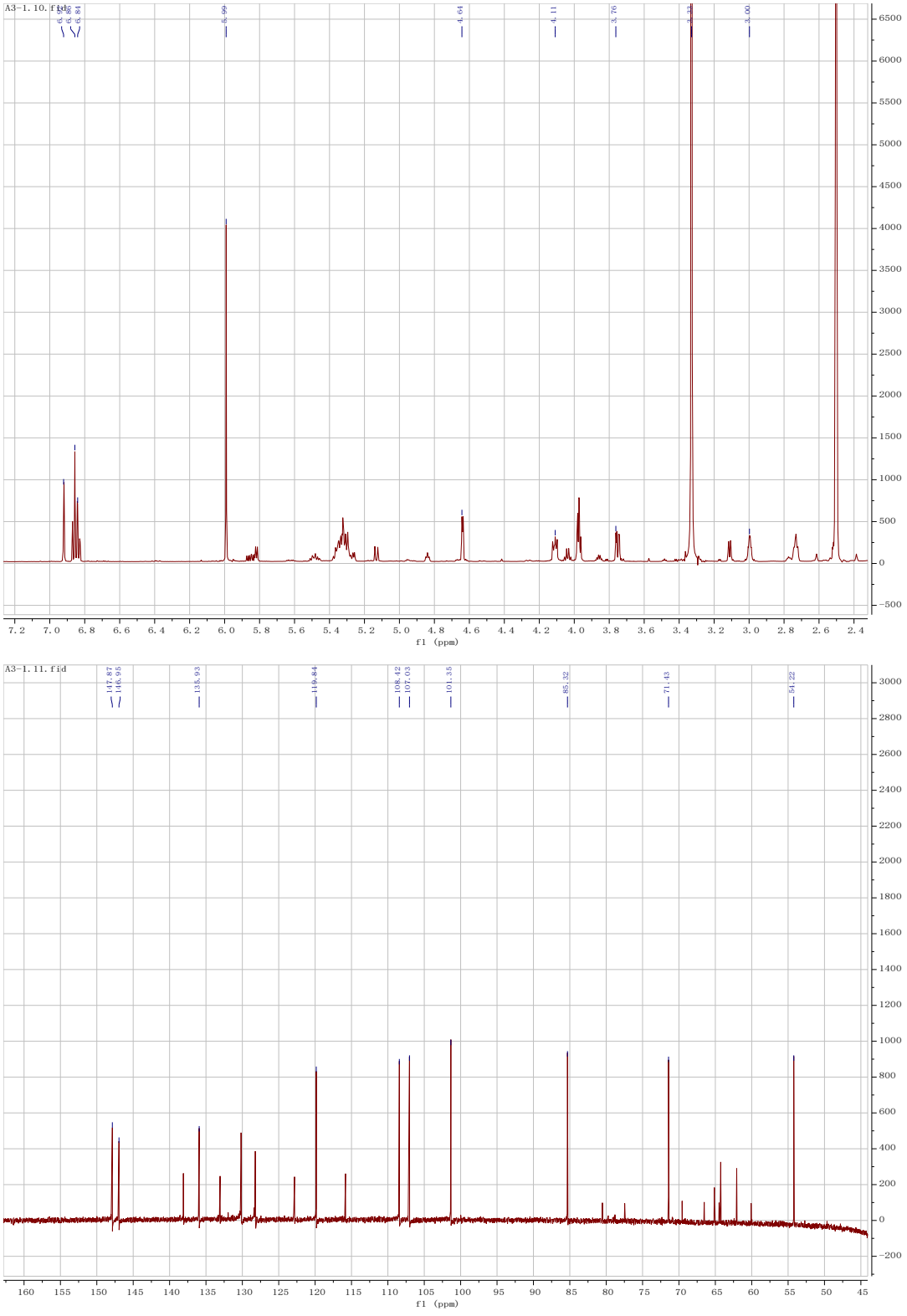



**Fig. S31** $^{1}H$ and $^{13}C$ NMR spectrum of Compound **31**

REFERENCE

S1. D.G. Marina, F. Maria, F. Antonio, M. Pietro and P. Lucio, Antialgal compounds from *zantedeschia aethiopica*. *Phytochemistry* 1998, **9**(5), 1299-1304.

S2. C. Yan, Y. Wang and X.J. Hao, Water-soluble chemical constituents from fruits of *Phellodendron chinense* var. glabriusculum, *China Journal of Chinese Materia Medica*, 2009, **34**, 2895-2897.

S3. J.X. Chen, L. Ni, Y. Zhang, J.R. Fu and W. Huang, A new lignan from *Euscaphis konishii*. *China Journal of Chinese Materia Medica*, 2021, **46**, 2072-2078.

S4. S. Chaipech, T. Morikawa, K. Ninomiya, M. Yoshikawa, Y. Pongpiriyadacha, T. Hayakawa and O. Muraoka, New flav-3-en-3-ol glycosides, kaempferiaosides C and D, and acetophenone glycosides, kaempferiaosides E and F, from the rhizomes of Kaempferia parviflora. *J Nat. Med-Tokyo* 2012, **66**, 486-492.

S5 Y. Liu, Y.F. Yang, Y.C. Liu, C.L. Chen, G. Chen, Z. Xiang, X.J. Yan and W. Liu, Anti-oxidant chemical constituents from *Patrinia villosa*. *Journal of Chinese Herbal Medicine* 2019, **50**, 5206-5211.

S6. E. Ferencz, G. Spengler, I. Zupkó, M. Vollár, Z.P. Zomborszki, N. Kúsz, J. Hohmann, B. Kovács, D. Csupor, E. Laczkó-Zöld and B. Csupor-Löffler, Isolation of compounds from the roots of Ambrosia artemisiifolia and their effects on human cancer cell lines. *Z Naturforsch. C J Biosci*, 2023, **78**(7-8), 299-305.

S7. A. Batool, G.A. Miana, M. Alam, M.T. Khan, M. Muddassir, W. Zaman, S. Khan, A. Aman, A. Khusro and M.V. Arasu, Bioassay-guided fractionation and isolation of Arctigenin from *Saussurea heteromalla* for in vitro and in silico cytotoxic activity against HeLa cells. *Physiol. Mol. Plant P* 2022, **117**, 101749.

S8. Min, B.S.; Lee, S.Y.; Kim, J.H.; Kwon, O.K.; Park, B.Y.; An, R.B.; Lee, J.K.; Moon, H.I.; Kim, T.J.; Kim, Y.H.; Joung, H.; Lee, H.K. Lactones from the leaves of *Litsea japonica* and their anti-complement activity. *J Nat. Prod*. **2003**, *66*, 1388-1390.

S9. J.Y. Yang, B.K. Xiao and Y.R. Liu, Chemical constituents of *Pittosporum illicioides*. *Chem. Nat. Compd*. 2015, **51**, 1126-1129.

S10. S.Y. Seonu, M.J. Kim and M.W. Lee, Inhibition of the NLRP3 inflammasome by a *Quercus Serrata* extract and isolation of the component compounds for the treatment of arthritis. *Evid-Based Compl. Alt*. 2022, 4428269.

S11. Y.J. Zhou, S. Shrestha, H.A. Jung and J.S. Choi, Bioassay-guided isolation of BACE1 inhibitors from Crataegus pinnatifida. *Phytomedicine Plus* 2023, **3**(3), 100460.

S12. X.X. Huang, M. Bai, L. Zhou, L.L. Lou, Q.B. Liu, Y. Zhang, L.Z. Li and S.J. Song, Food byproducts as a new and cheap source of bioactive compounds: Lignans with antioxidant and anti-inflammatory properties from *Crataegus pinnatifida* seeds. *J Agric. Food Chem*. 2015, **63**, 7252-7260.

S13. L. Coufalová, L. Mrózek, L. Rárová, L. Plaček, R. Opatřilová, J. Dohnal, K. Král'ová, O. Paleta, V. Král, P. Drašar and J. Jampílek, New polyfluorothiopropanoyloxy derivatives of 5β-cholan-24-oic acid designed as drug absorption modifiers. *Steroids* 2013, **78**(9), 435-453.

S14. N. Saraux, S. Cretton, O.S. Kilicaslan, C. Occioni, A. Ferro, L. Quirós-Guerrero, S. Karimou, P.

Christen and M. Cuendet, Isolation and structure elucidation of compounds from Sesamum alatum and their antiproliferative activity against multiple myeloma cells. *J Nat. Prod*. 2022, **85**, 2706-2713.

S15. N.A. Mfonku, J.A. Mbah, N. Kodjio, D. Gatsing and J. Zhan, Isolation and characterization of antisalmonellal anthraquinones and coumarins from *Morinda lucida* Benth. (Rubiaceae). *Chem. Pap.* 2021, **75**, 80-84.

S16. K. Yoshikawa, M. Kuroboshi, S. Arihara, N. Miura, N. Tujimura and K. Sakamoto, New triterpenoids from *Tricholoma saponaceum*. *Chem. Pharm. Bull*. 2002, **50**(12), 1603-1606.

S17. M. Zhu, L. Xiong, Y.N. Wang, M.H. Chen, B.Y. Jiang, S. Lin, C.G. Zhu, Y.C. Yang and J.G. Shi, 2012. Lignans from *Sinocalamus affinis*. *Chinese Journal of Traditional Chinese Medicine* 2012, **37**, 1968-1972.

S18. S.K. Sharma, N. Kumar, S. Singh and A. Ali, New aliphatic alcohol from *Ailanthus excelsa* Roxb. Bark. *Asian J Chem.* 2008, **20** (7), 5455-5460.

S19. B.M. Nkouayeb Nangmou, H.L. Maza Djomkam, G. Bellier Tabekoueng, W.D. Tékapi Tsopgni, G.T. Mbahbou Bitchagno, M.A. Mbock, R.G. Kamkumo, M. Frese, B. Ndjakou Lenta, S.A. Ngouela, N. Sewald and A.G. Blaise Azebaze, Bioguided fractionation and isolation of an antiplasmodial saponin from the roots of *Nauclea xanthoxylon* (A.Chev.) Aubrév. *Chem. Biodivers*. 2021, **20**, e202200271.

S20 R.S.D. Fierro, Secondary Metabolites from *Cinnamomum cebuense. Journal of Medical Plants Research*, 2012, **6**(11), 2146-2149.

S21. B. Oloya, J. Namukobe, M. Heydenreich, W. Ssengooba, B. Schmidt and R. Byamukama, Antimycobacterial activity of the extract and isolated compounds from the Stem bark of *Zanthoxylum leprieurii* Guill. and Perr. *Nat. Prod. Commun*. 2021, **16**, 485-494.