Supporting Information

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Baker's yeast as a biocatalyst for efficient and substrate-selective N-acetylation of anilines

Qasim Ullah[1], Samreen Kausar[1], Abida Murtaza[2] and Aarifa Maryam [3]

[1]*Chemistry Section, School of Sciences, Maulana Azad National Urdu University, Gachibowli, Hyderabad-TS. India- 500032.*

[2]*Polytechnic, Maulana Azad National Urdu University, Gachibowli, Hyderabad-TS. India- 500032*

[3]*Department of Biosciences, Jamia Millia Islamia, Jamia Nagar, New Delhi-110025, India*

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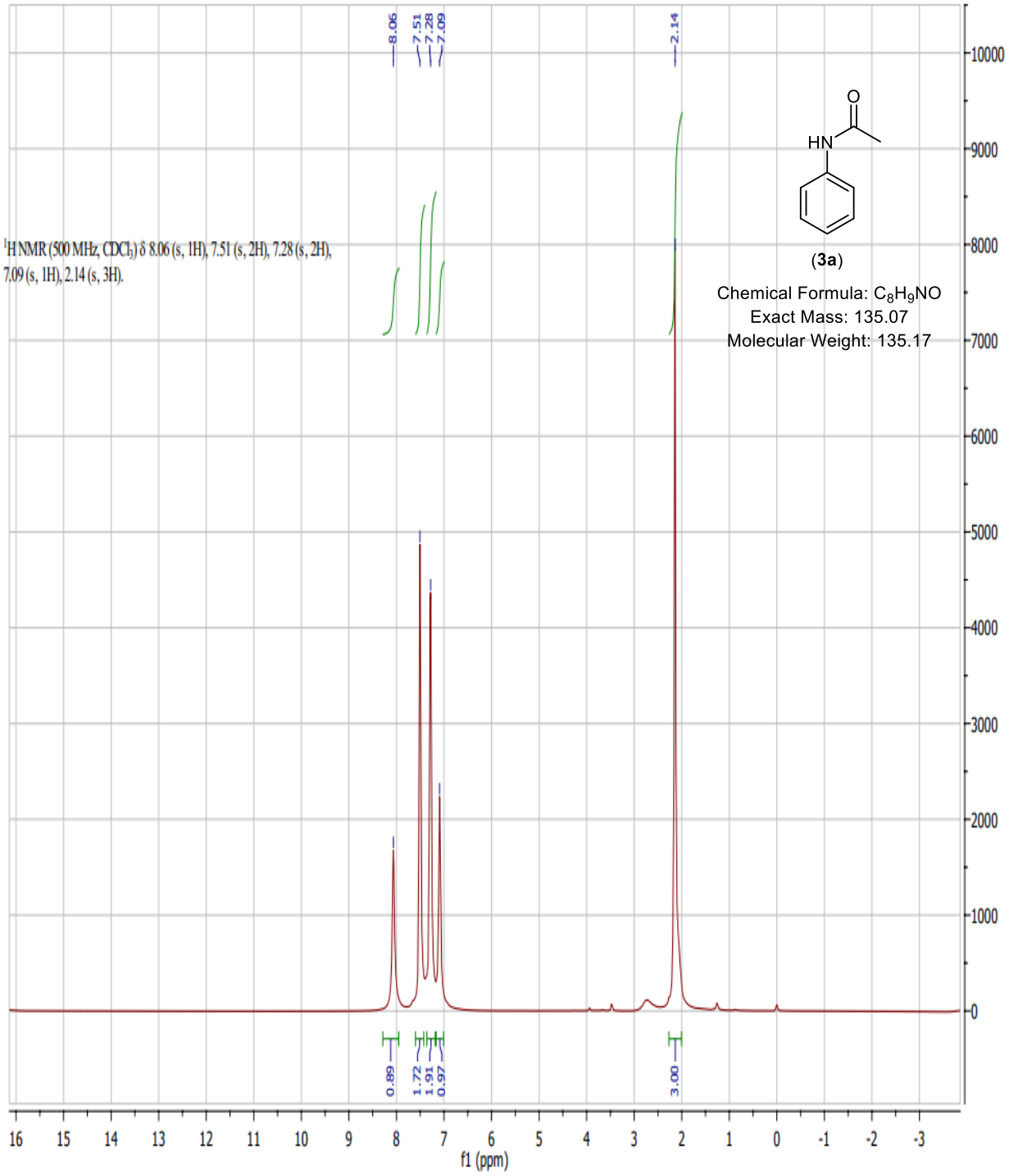

Figure S1: ^{1}H-NMR spectrum of compound **3a**

^{1}HNMR(500MHz, $CDCl_3$): δ 8.06 (s, 1H), 7.51 (s, 2H), 7.28 (s, 2H), 7.09 (s, 1H), 2.14 (s, 3H)

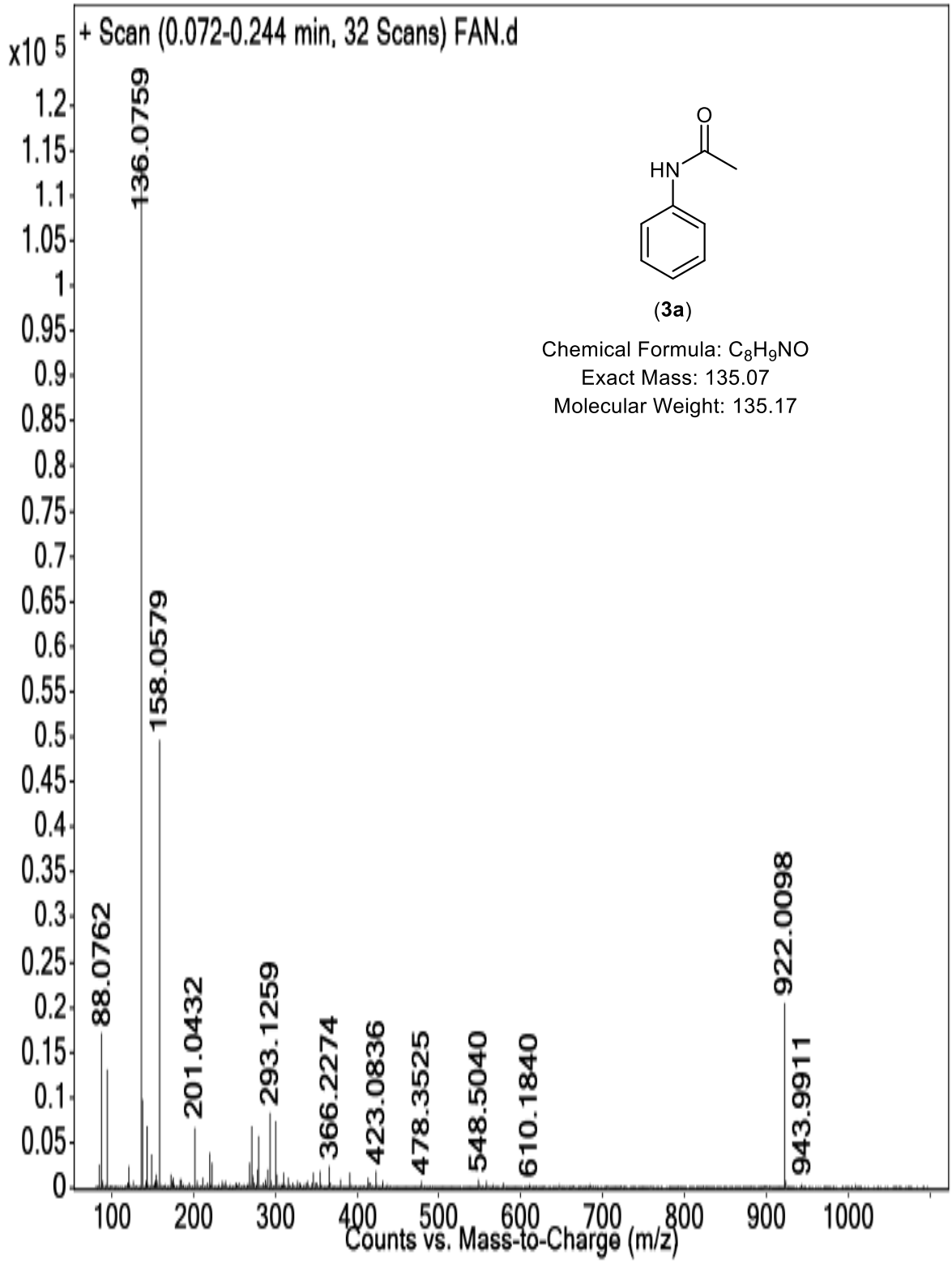

Figure S2: Mass spectrum of compound **3a**

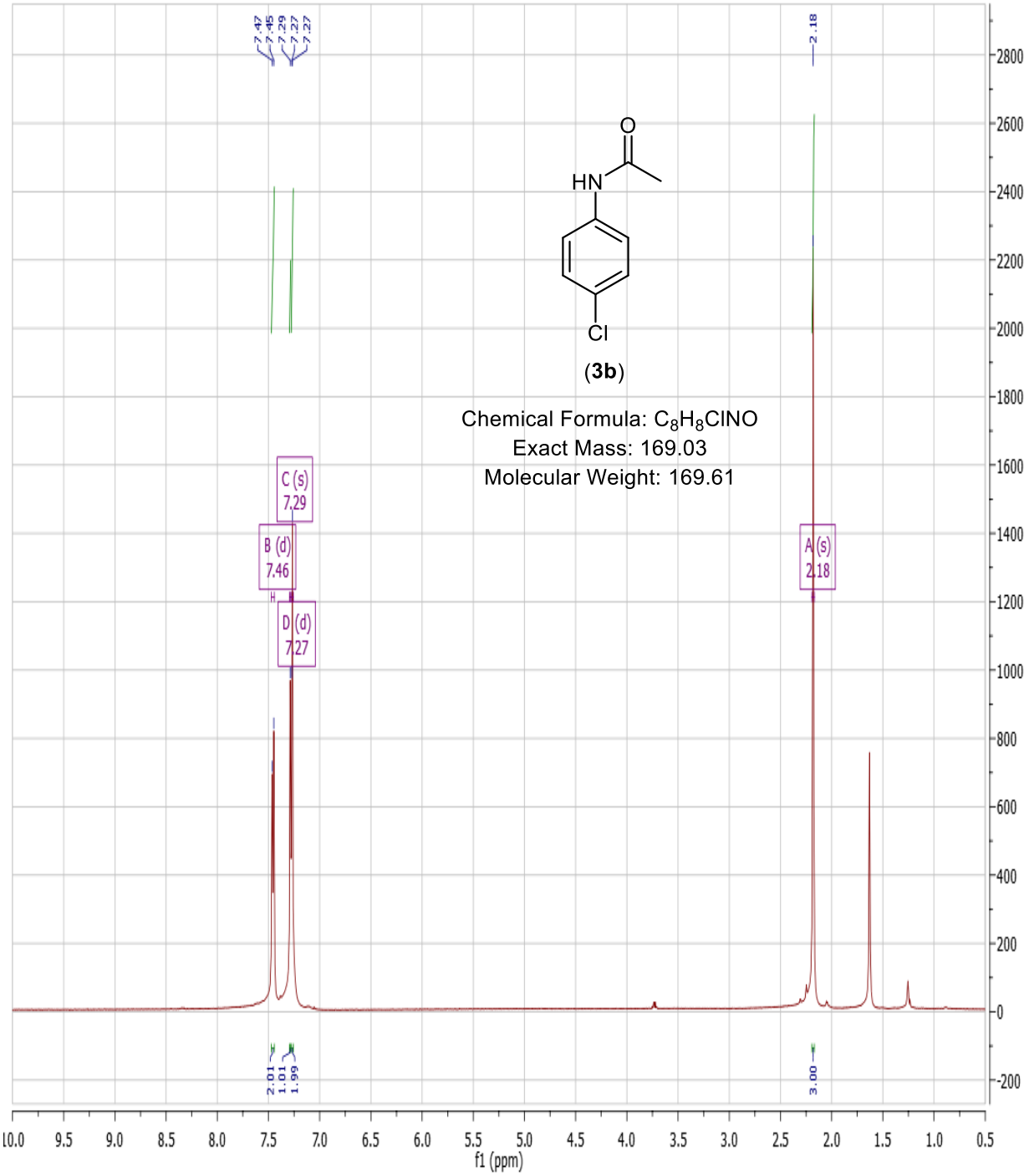

Figure S3: ^{1}H-NMR spectrum of compound **3b**

^{1}H NMR (500 MHz, $CDCl_3$): δ 7.46 (d, J = 8.6 Hz, 2H), 7.29 (s, 1H), 7.27 (d, J = 2.4 Hz, 2H), 2.18 (s, 3H).

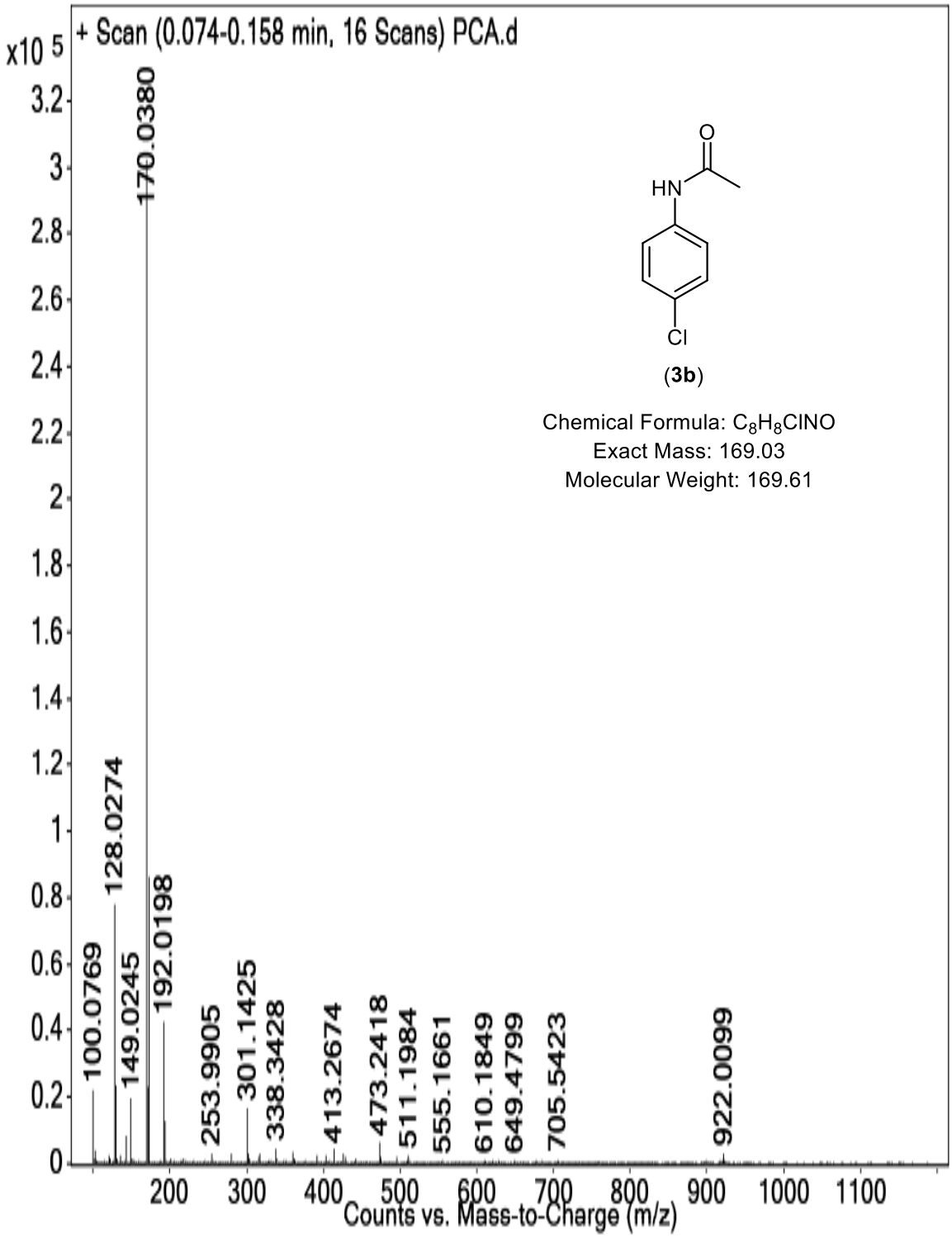

Figure S4: Mass spectrum of compound **3b**

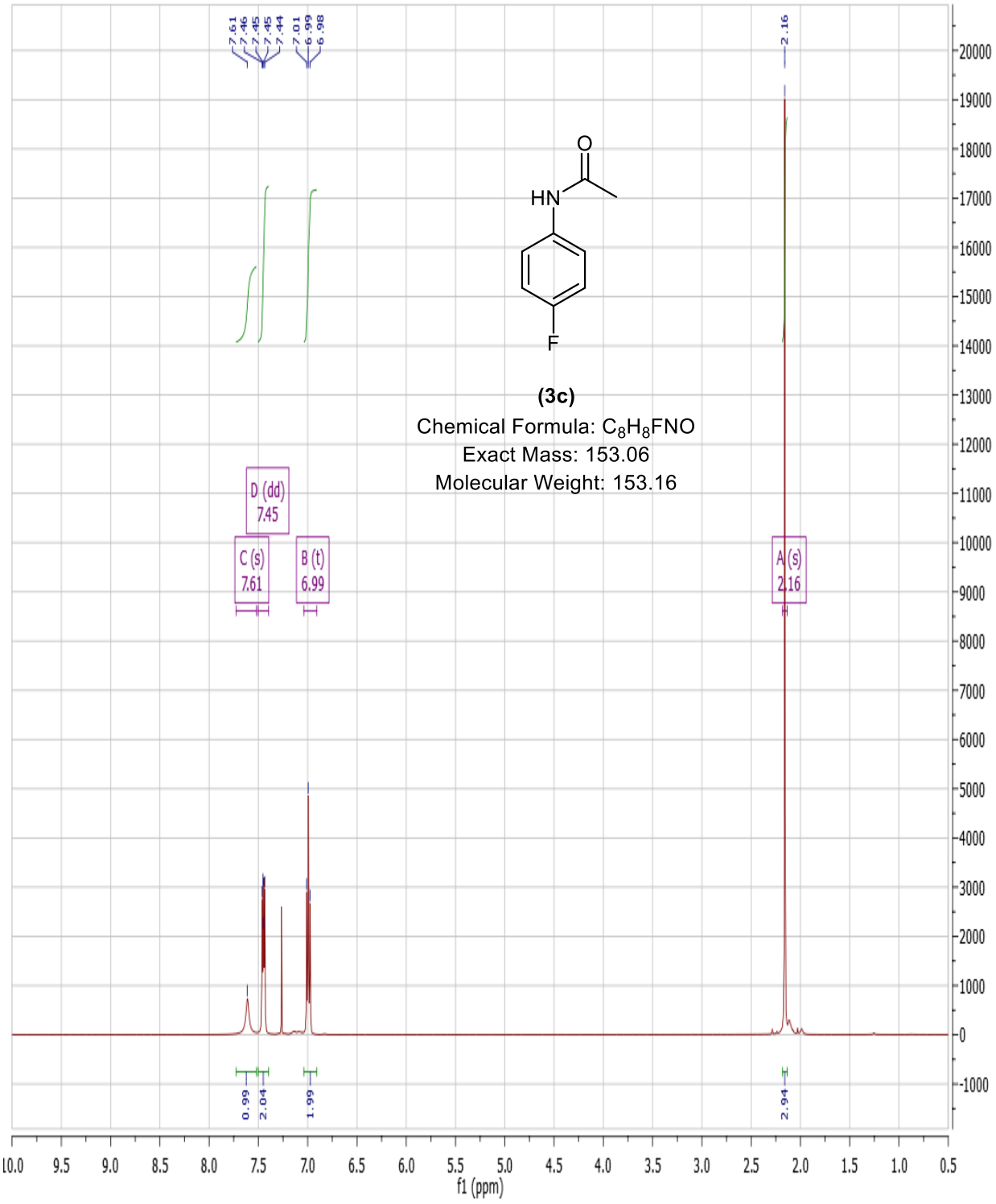

Figure S5: ^{1}H-NMR spectrum of compound **3c**

^{1}H NMR (500 MHz, $CDCl_3$) δ 7.61 (s, 1H), 7.45 (dd, *J* = 7.9, 5.9 Hz, 2H), 6.99 (t, *J* = 8.6 Hz, 2H), 2.16 (s, 3H).

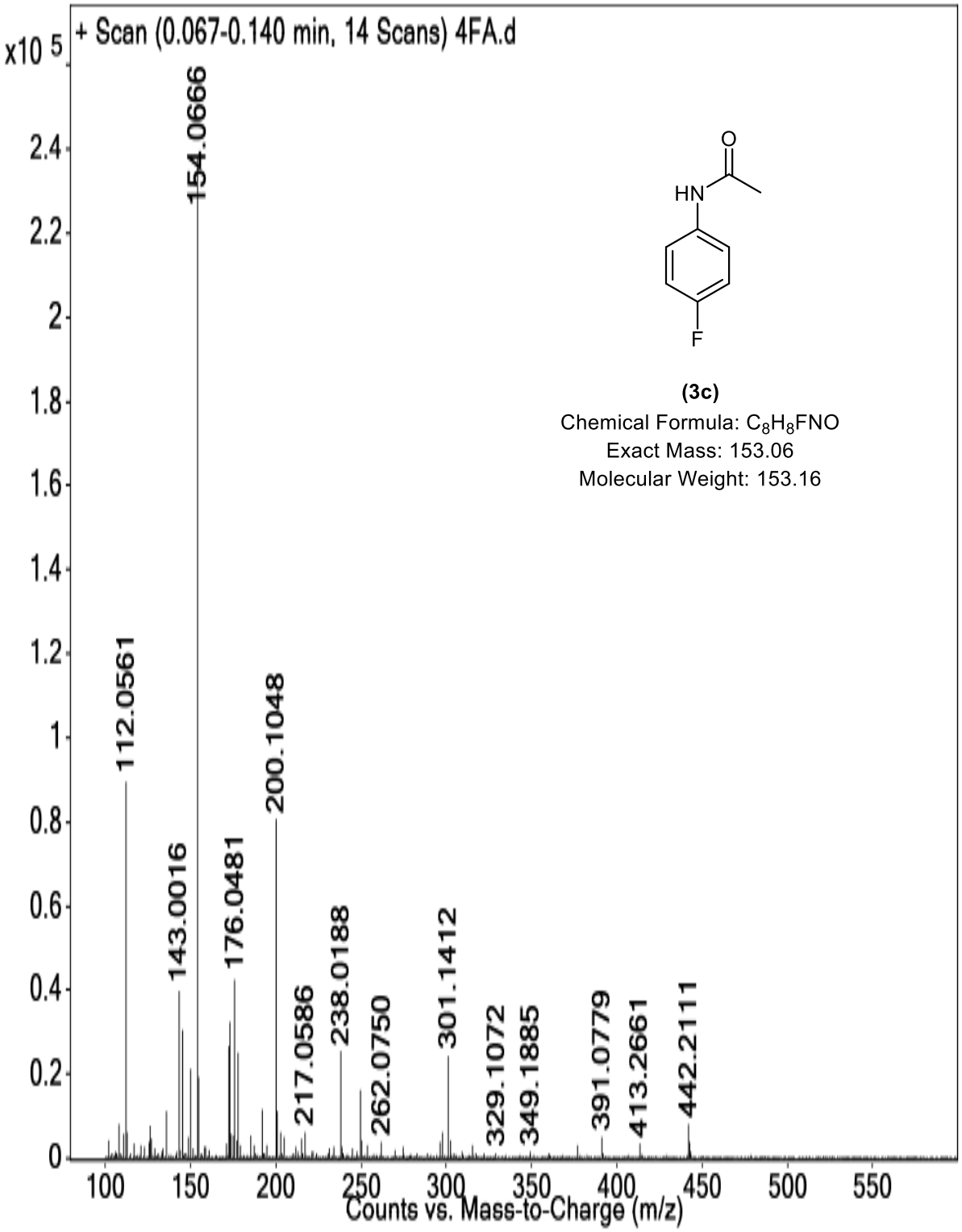

Figure S6 : Mass spectrum of compound of **3c**

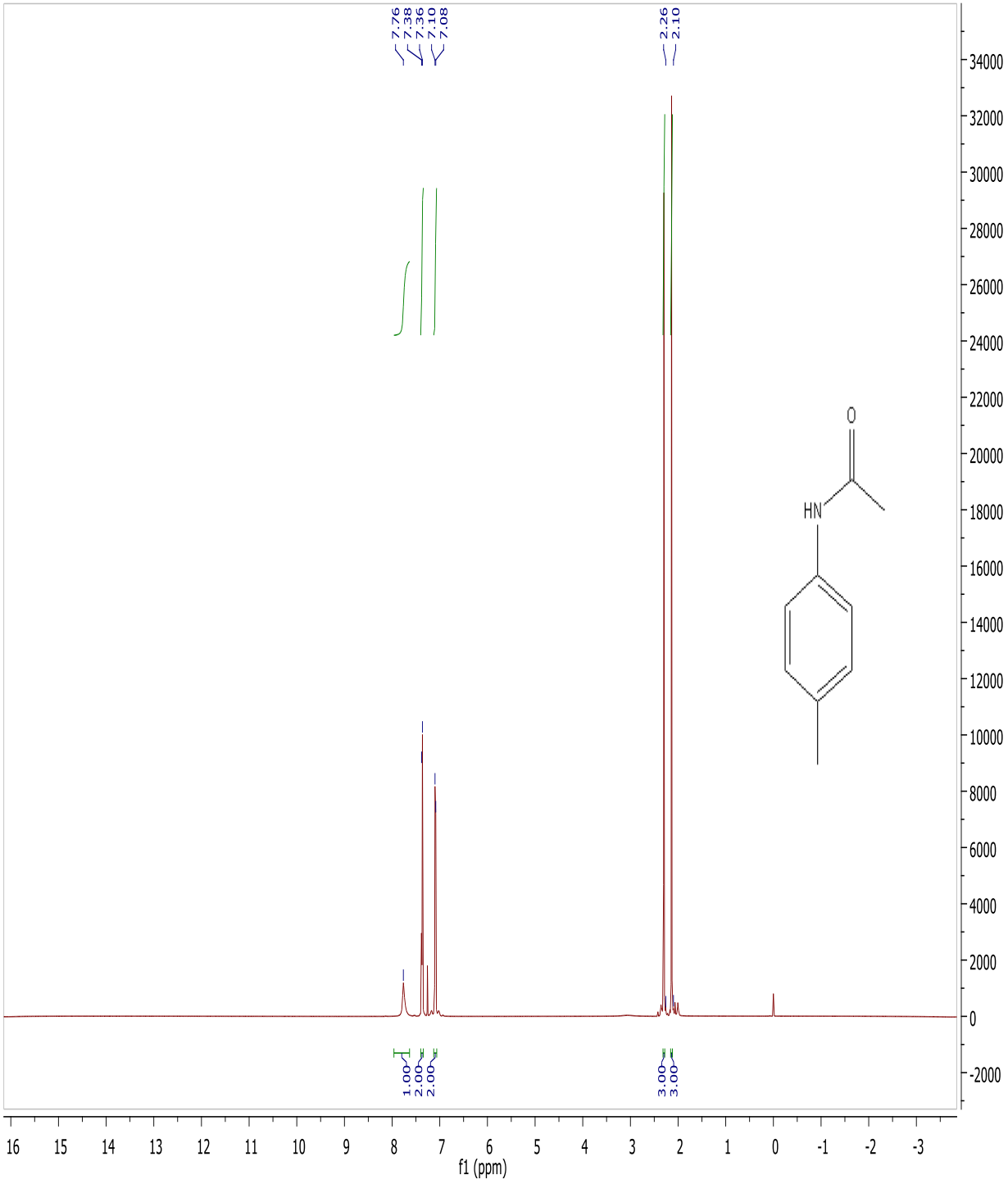

Figure S7: ^{1}H-NMR spectrum of compound of **3d**

^{1}H NMR (500 MHz, $CDCl_3$) δ 7.76 (s, 1H), 7.36 (d, *J* = 7.4 Hz, 2H), 7.09 (d, *J* = 7.2 Hz, 2H), 2.26 (s, 3H). 2.10 (s, 3H).

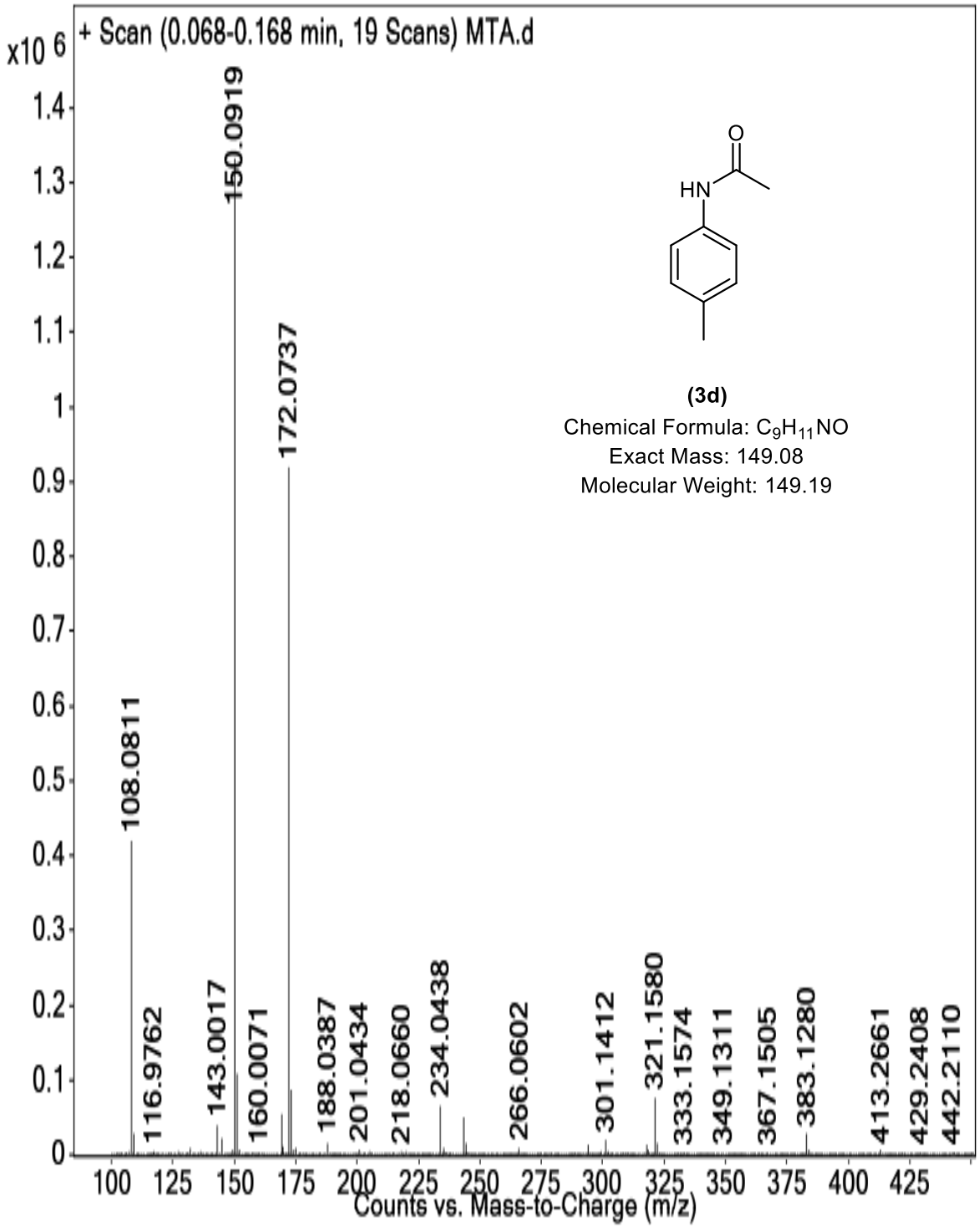

Figure S8 : Mass spectrum of **3d**

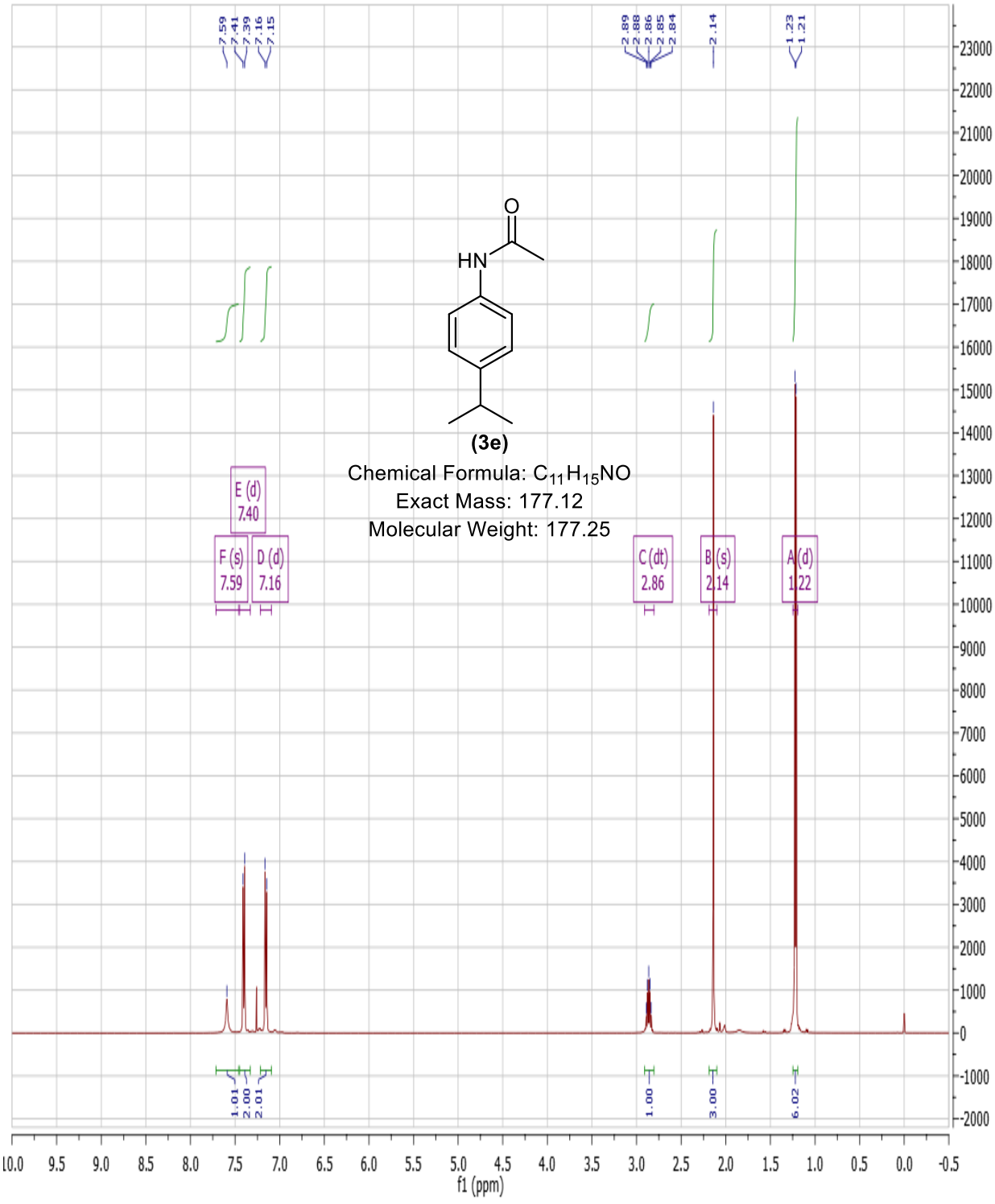

Figure S9: ^{1}H-NMR spectrum of compound of **3e**

^{1}H NMR (500 MHz, $CDCl_3$) δ 7.59 (s, 1H), 7.40 (d, *J* = 8.5 Hz, 2H), 7.16 (d, *J* = 8.4 Hz, 2H), 2.86 (dt, *J* = 13.8, 6.9 Hz, 1H), 2.14 (s, 3H), 1.22 (d, *J* = 6.9 Hz, 6H).

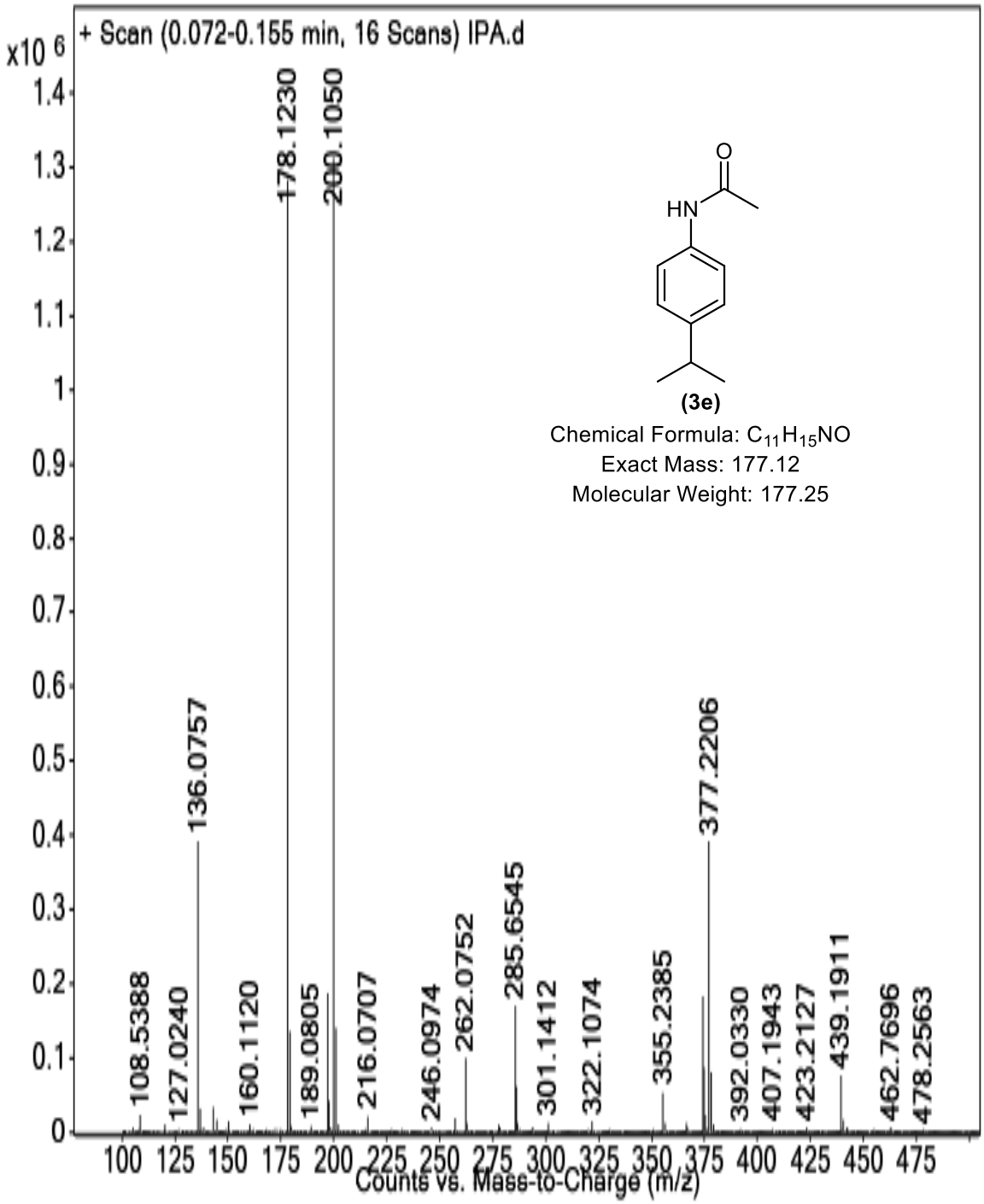

Figure S10 : Mass spectrum of compound **3e**

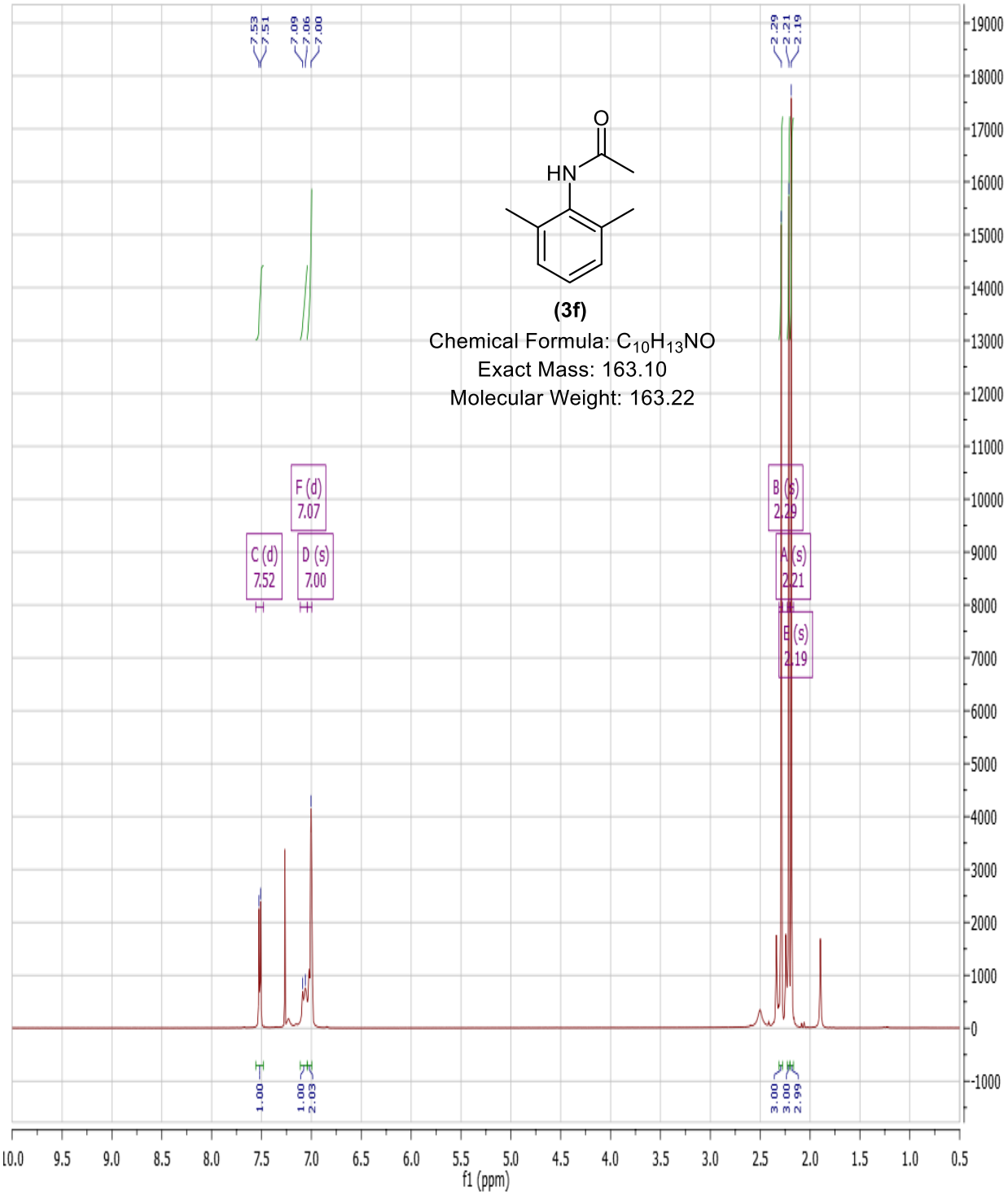

Figure S11 : ^{1}H-NMR spectrum of compound **3f**

^{1}H NMR (500 MHz, $CDCl_3$) δ 7.52 (d, J = 8.6 Hz, 1H), 7.07 (d, J = 13.5 Hz, 1H), 7.00 (s, 2H), 2.29 (s, 3H), 2.21 (s, 3H), 2.19 (s, 3H).

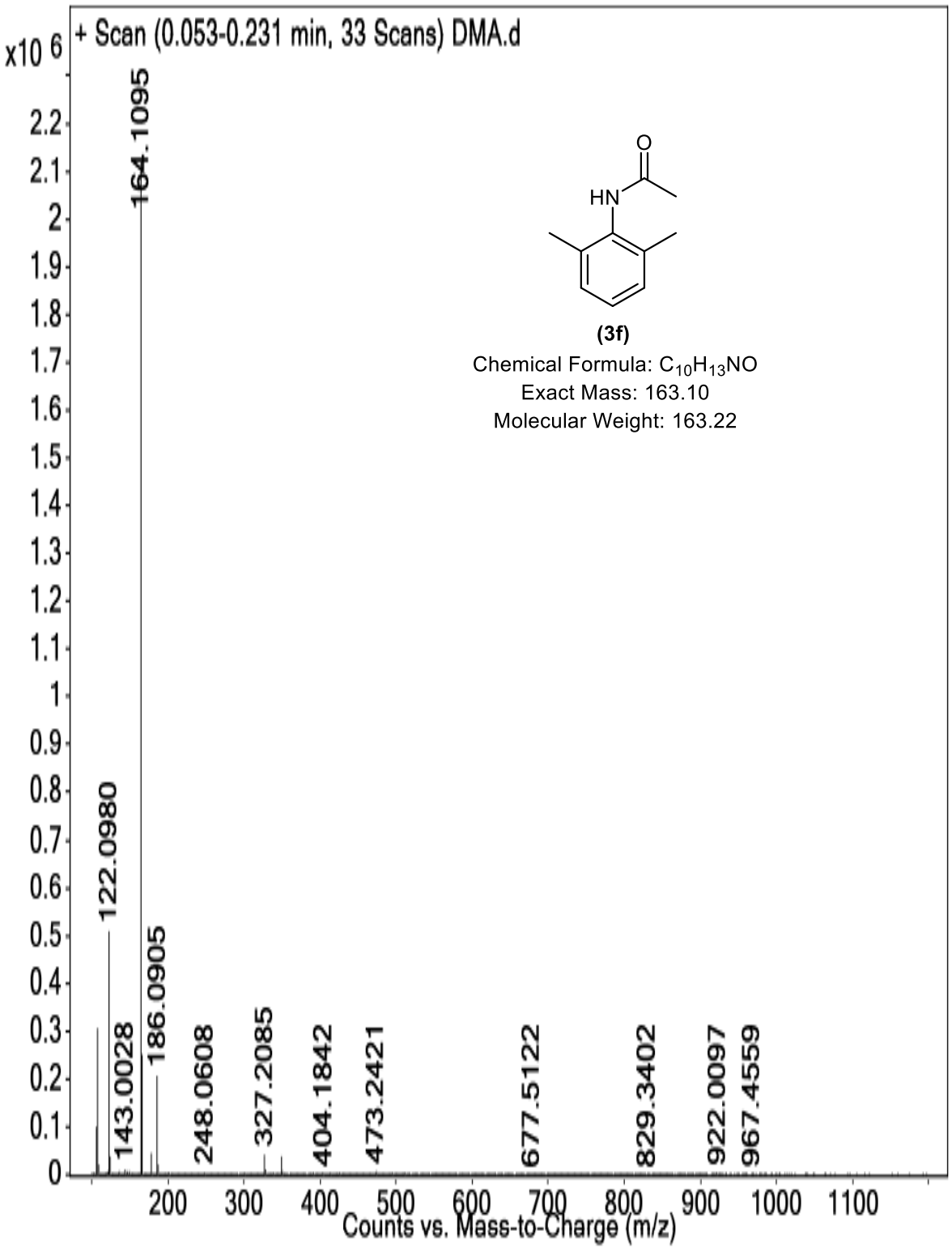

Figure S12 : Mass spectrum of compound **3f**

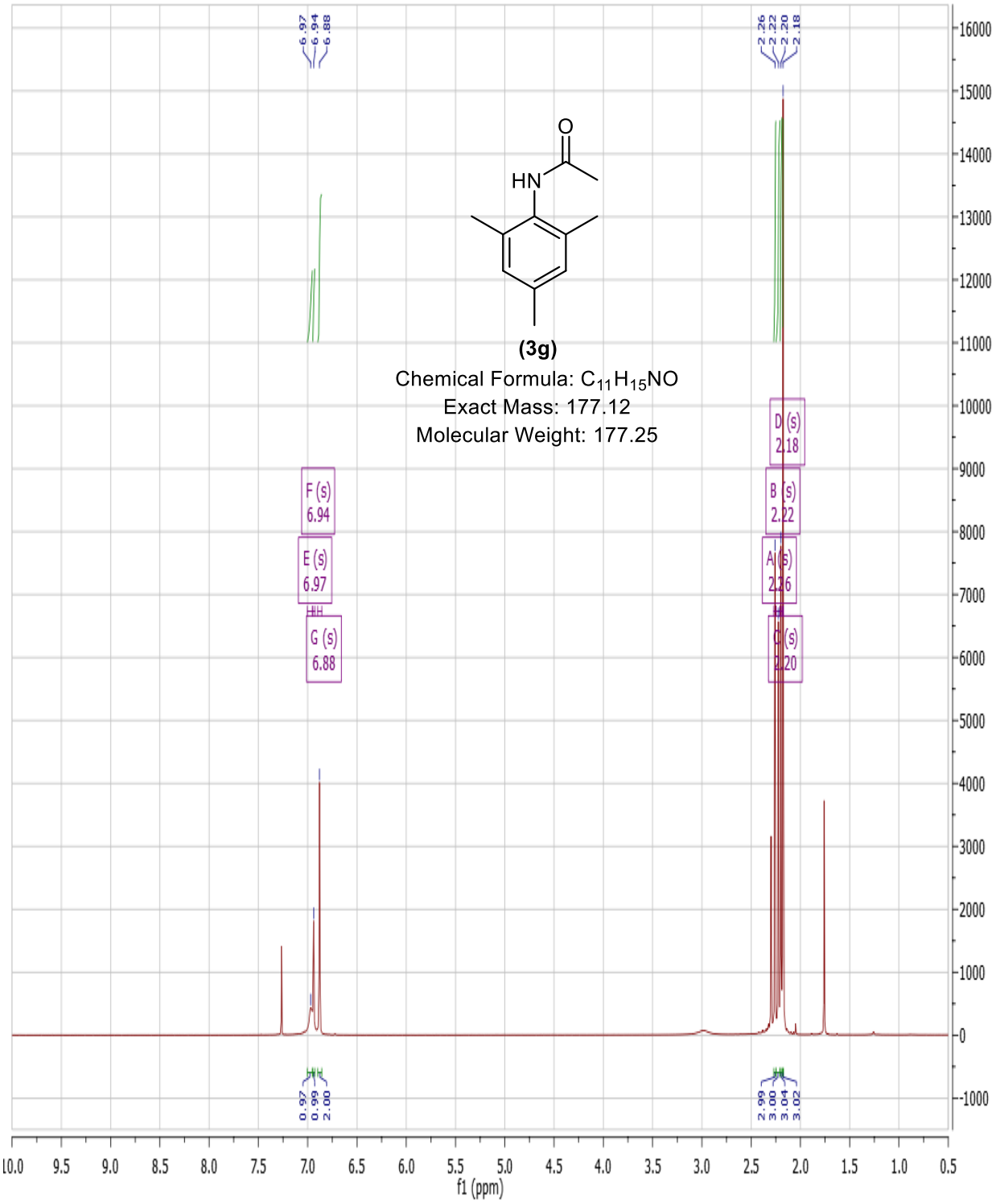

Figure S13: ^{1}H-NMR spectrum of compound **3g**

^{1}H NMR (500 MHz, $CDCl_3$) δ 6.97 (s, 1H), 6.94 (s, 1H), 6.88 (s, 2H), 2.26 (s, 3H), 2.22 (s, 3H), 2.20 (s, 3H), 2.18 (s, 3H).

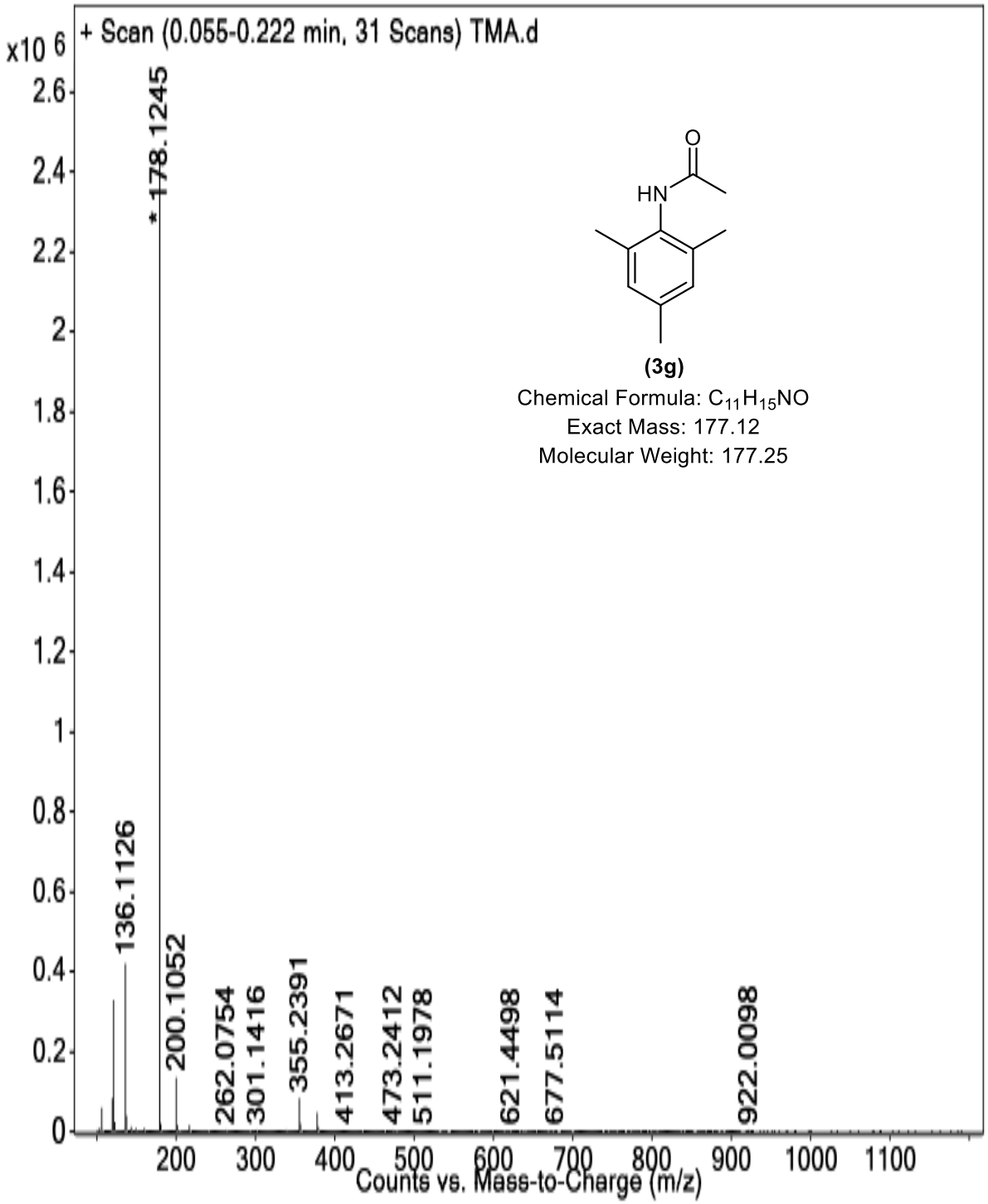

Figure S14 : Mass spectrum compound of **3g**

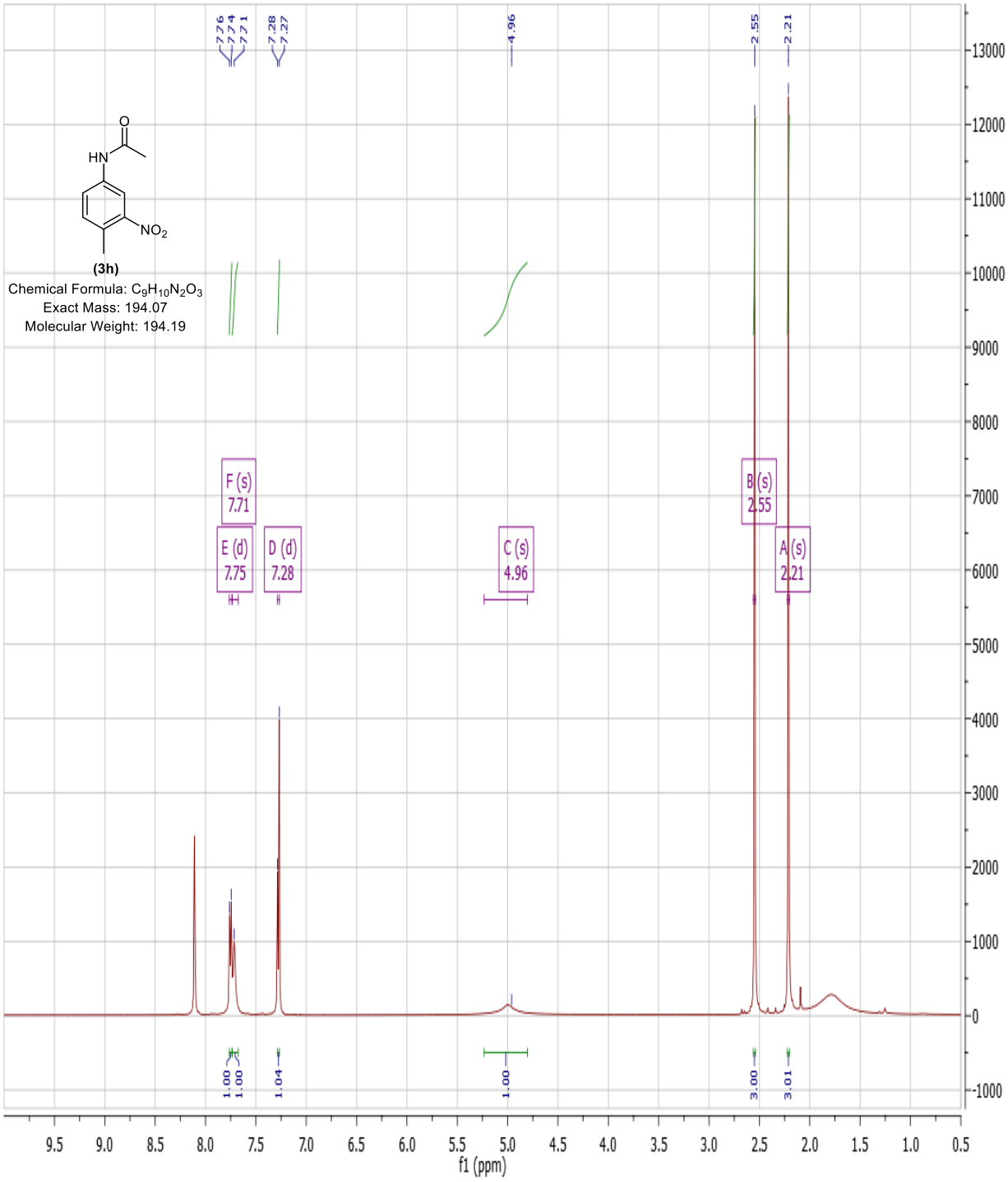

Figure S15 : ^{1}H-NMR spectrum compound of **3h**

^{1}H NMR (500 MHz, $CDCl_3$) δ 7.75 (d, *J* = 8.3 Hz, 1H), 7.71 (s, 1H), 7.28 (d, *J* = 8.2 Hz, 1H), 4.96 (s, 1H), 2.55 (s, 3H), 2.21 (s, 3H).

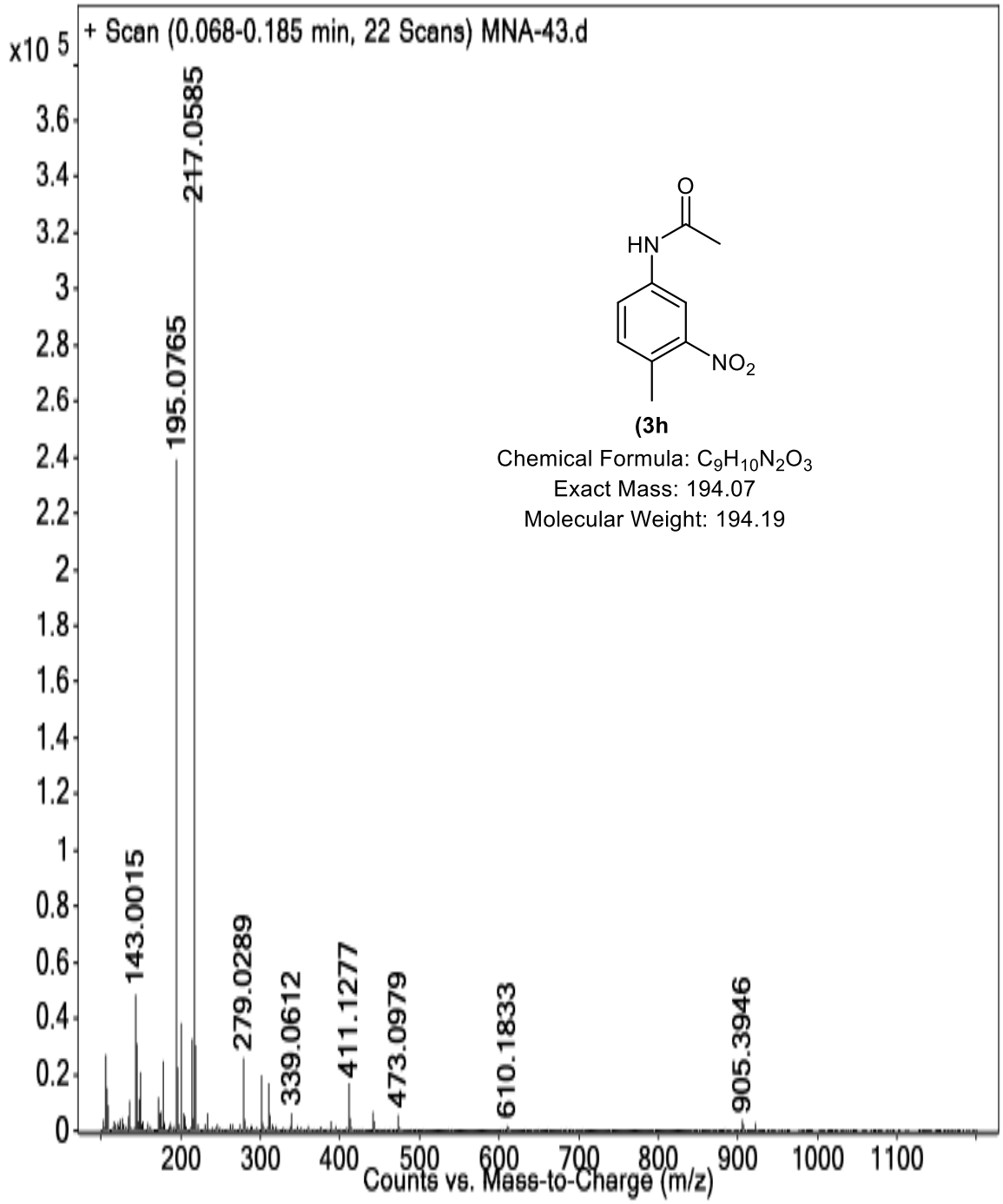

Figure S16 : Mass spectrum of compound **of 3h**

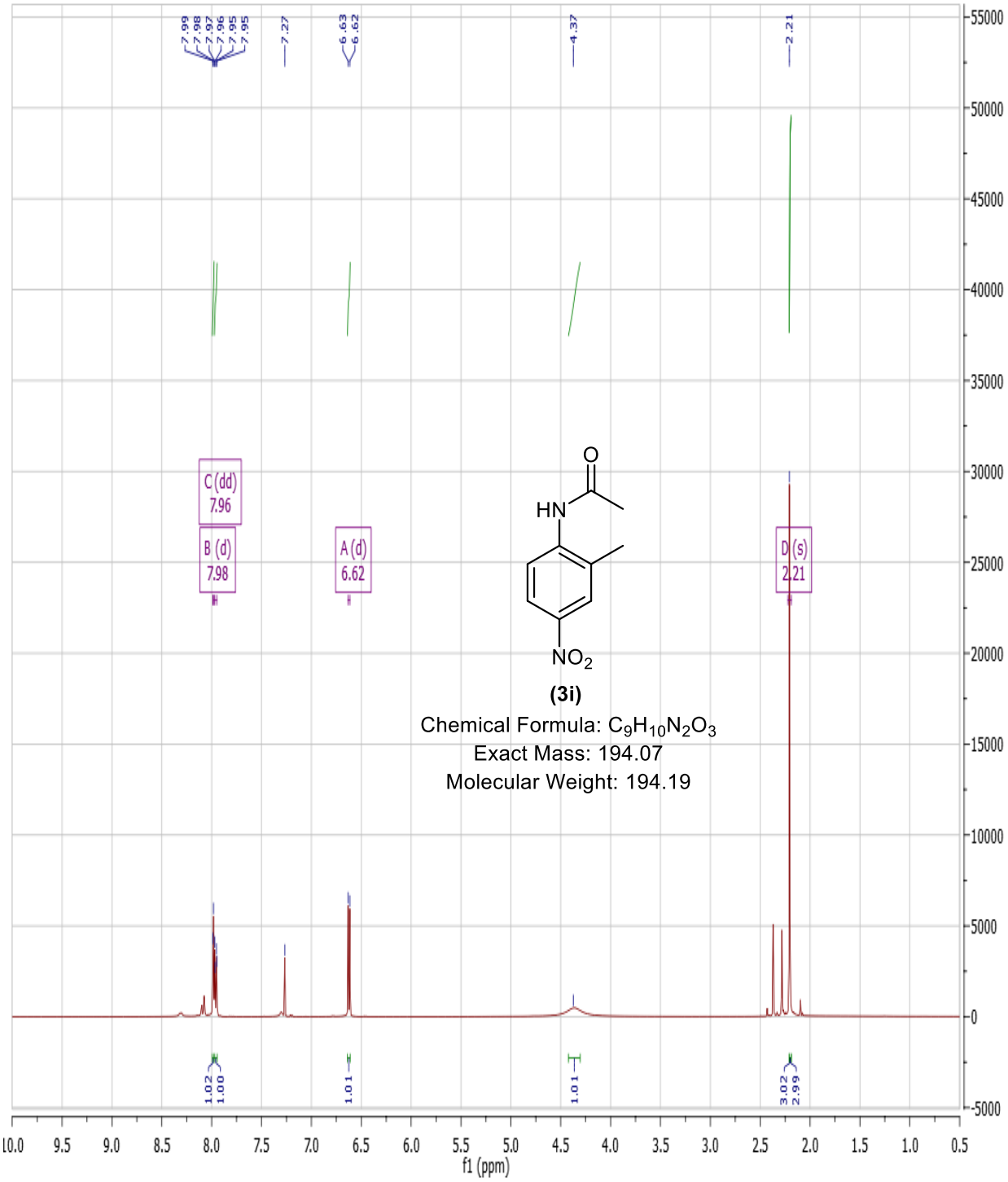

Figure S17 : ^{1}H-NMR spectrum compound of **3i**

^{1}H NMR (500 MHz, $CDCl_3$) δ 7.98 (d, *J* = 2.1 Hz, 1H), 7.96 (dd, *J* = 8.7, 2.6 Hz, 1H), 6.62 (d, *J* = 8.7 Hz, 1H), 2.21 (s, 6H).

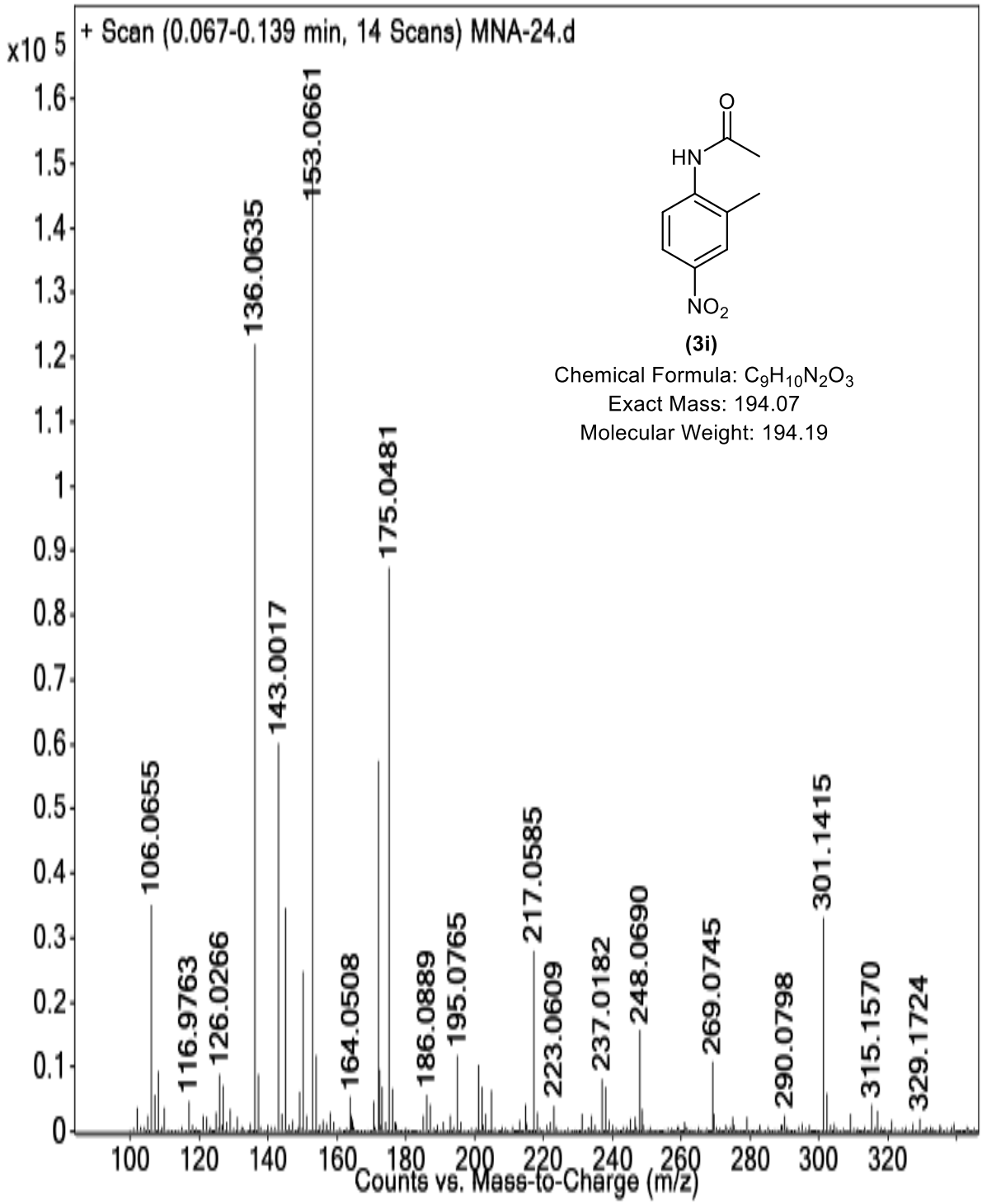

Figure S18: Mass spectrum compound of **3i**