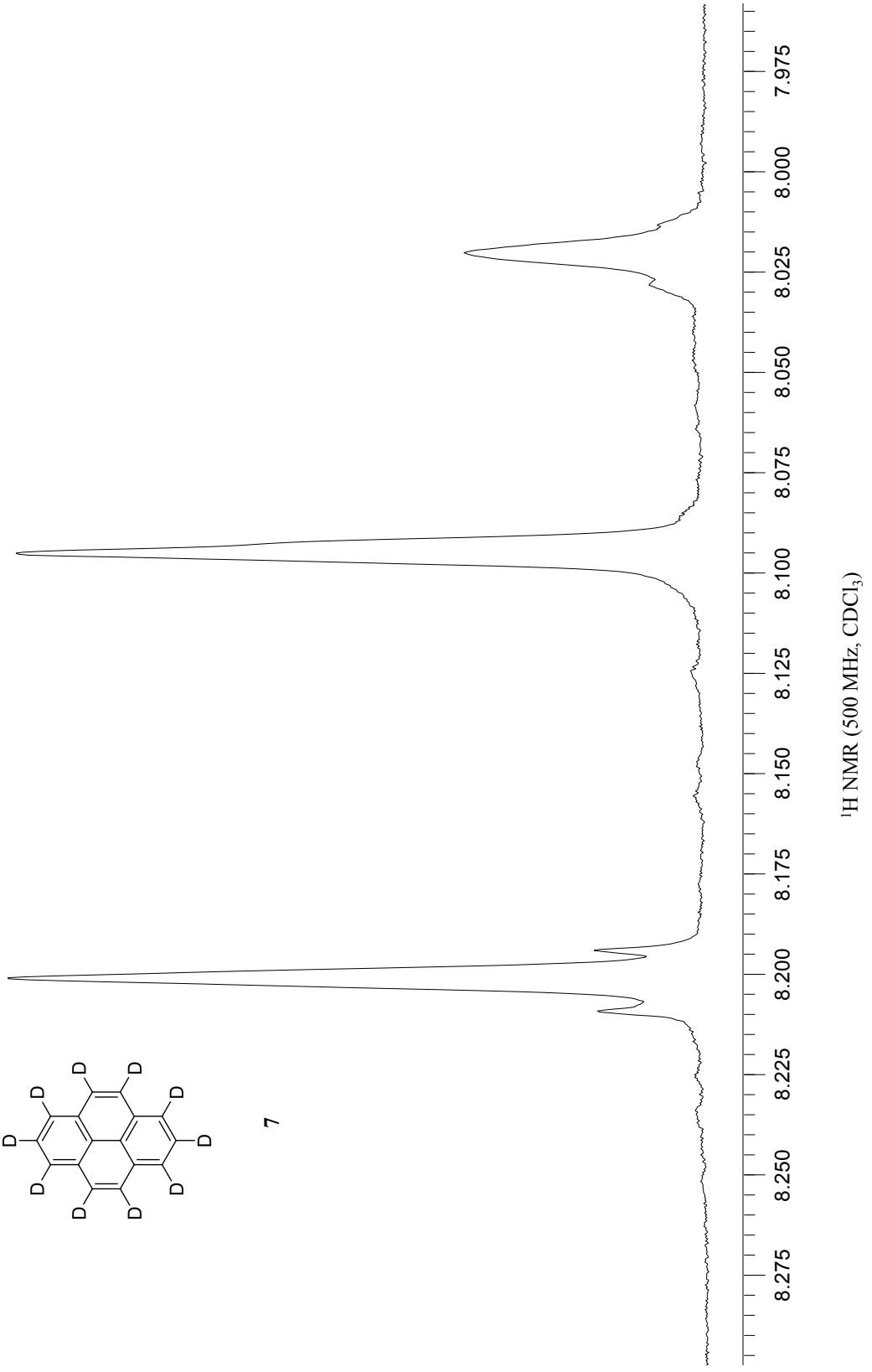
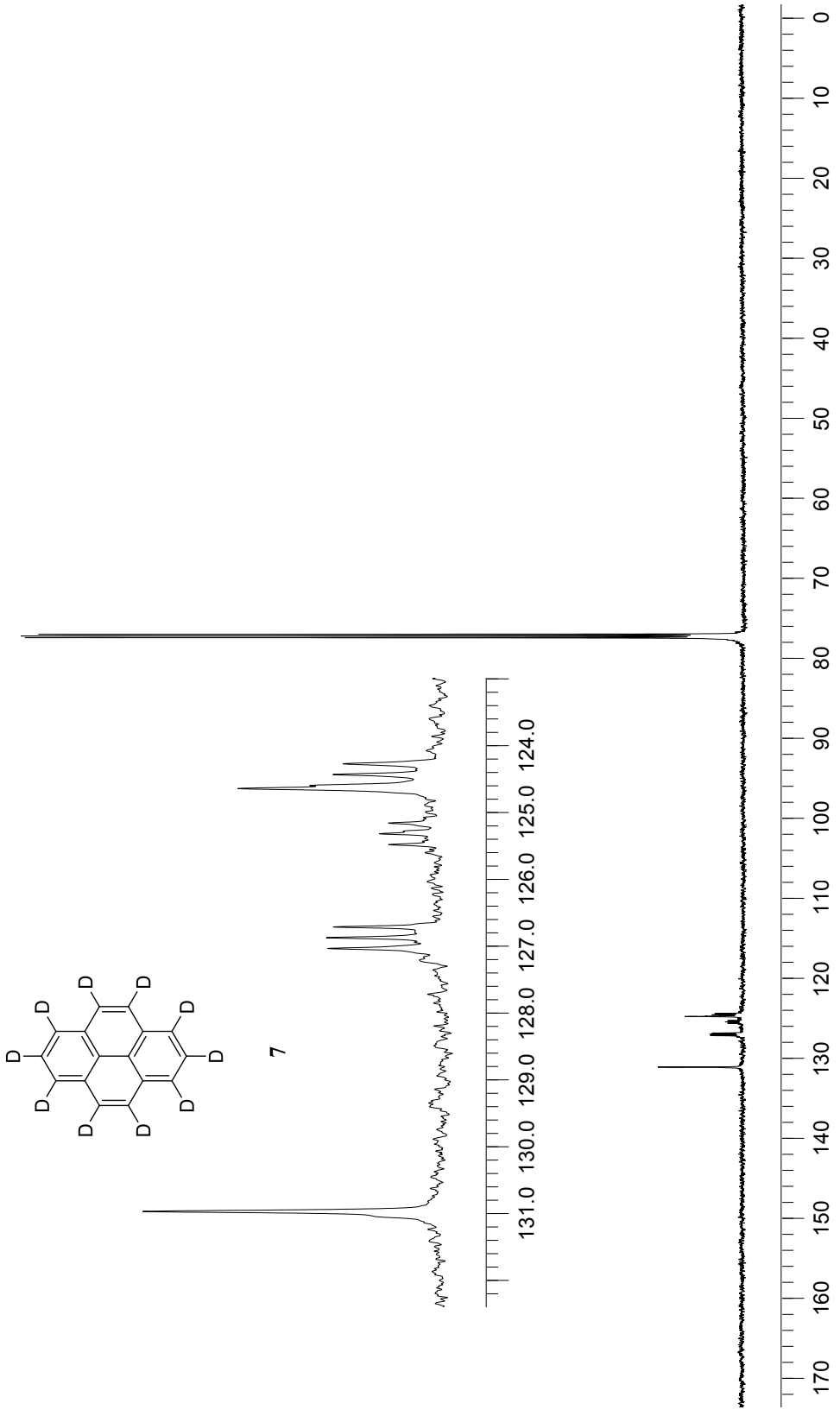
Rapid, Microwave-assisted Perdeuteration of Polycyclic Aromatic Hydrocarbons

Allison K. Greene and Lawrence T. Scott*

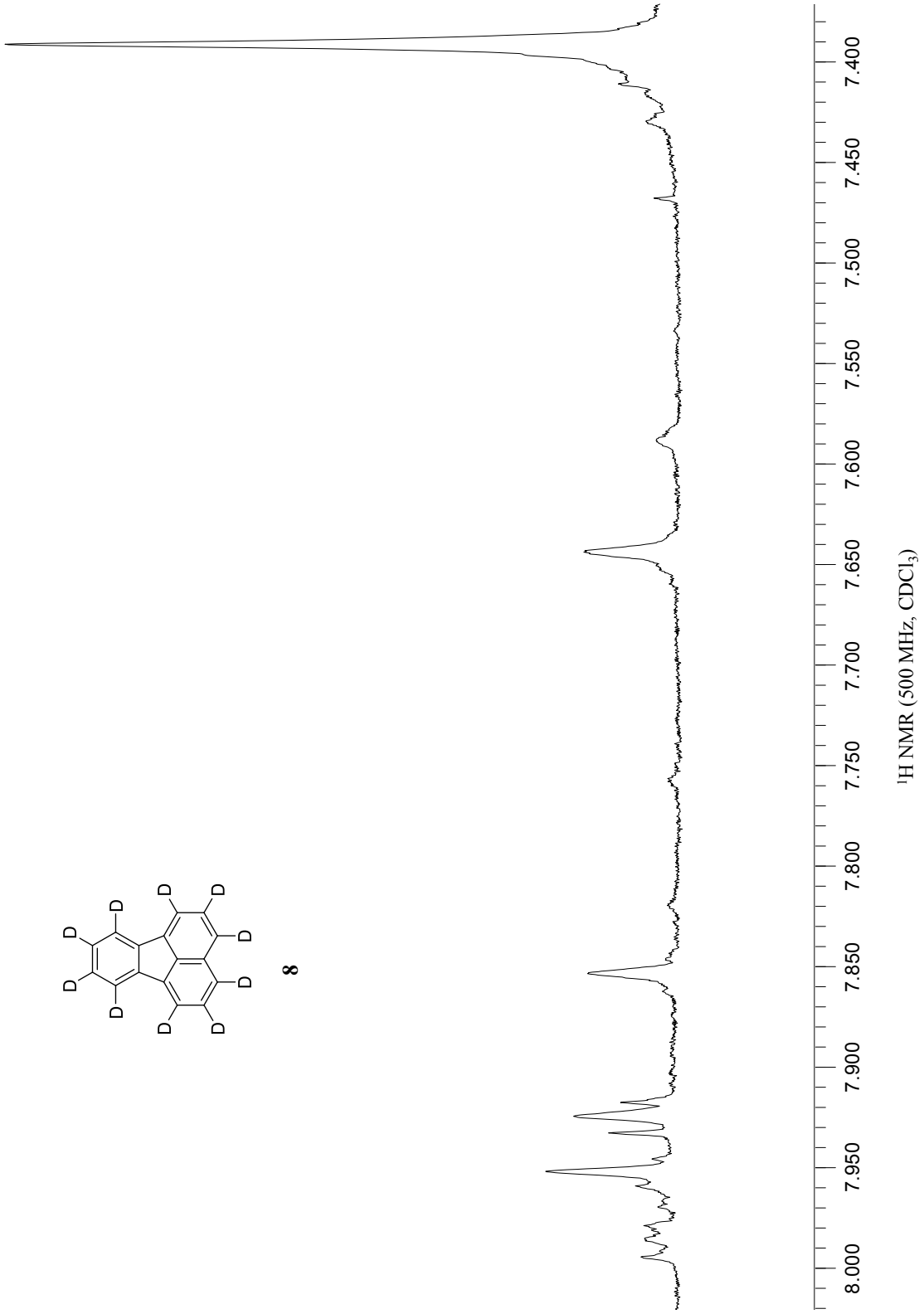
Department of Chemistry, Merkert Chemistry Center, Boston College, Chestnut Hill, Massachusetts 02467-3860, United States

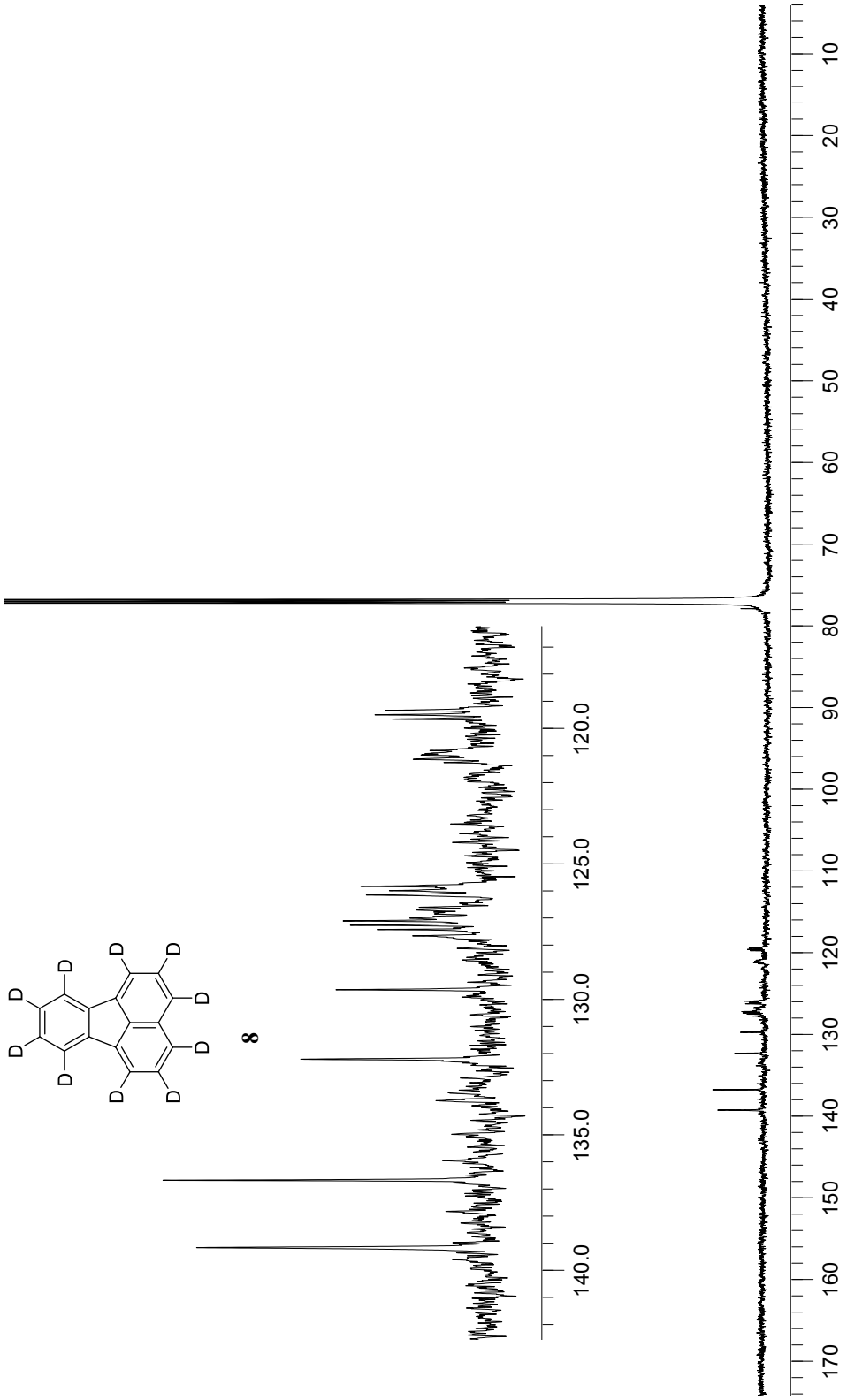
NMR Spectra pp S2-S9


D
D
D
D
D
D
D
D
D
D
7
8.275
8.250
8.225
8.200
8.175
8.150
8.125
8.100
8.075
8.050
8.025
8.000
7.975
^{1}H NMR (500 MHz, $CDCl_3$)

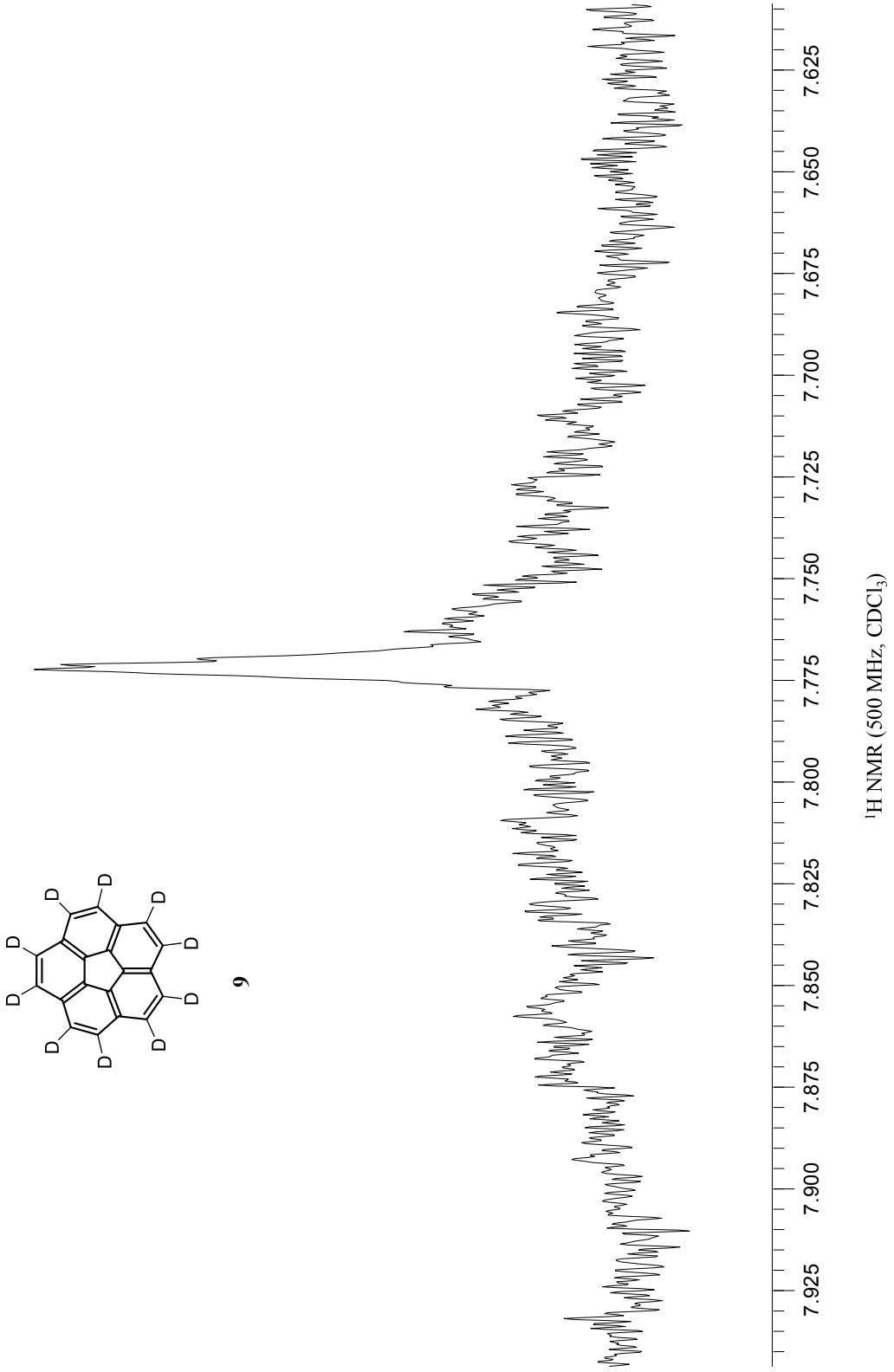


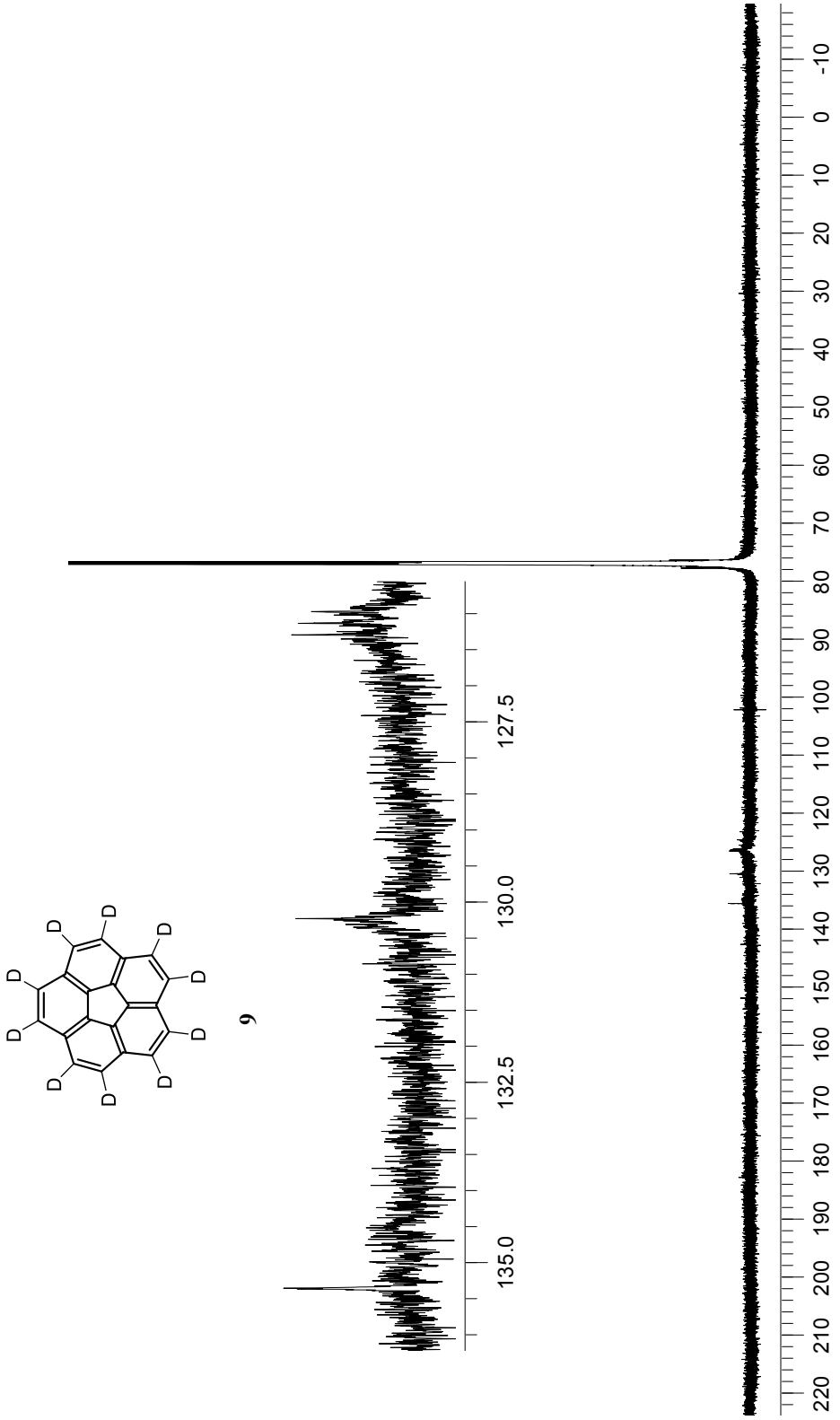
^{13}C NMR (150 MHz, $CDCl_3$, no proton decoupling, 300 pulses, 60 s pulse delay)


D
D
D
D
D
D
D
D
8
8.000
7.950
7.900
7.850
7.800
7.750
7.700
7.650
7.600
7.550
7.500
7.450
7.400
^{1}H NMR (500 MHz, $CDCl_3$)

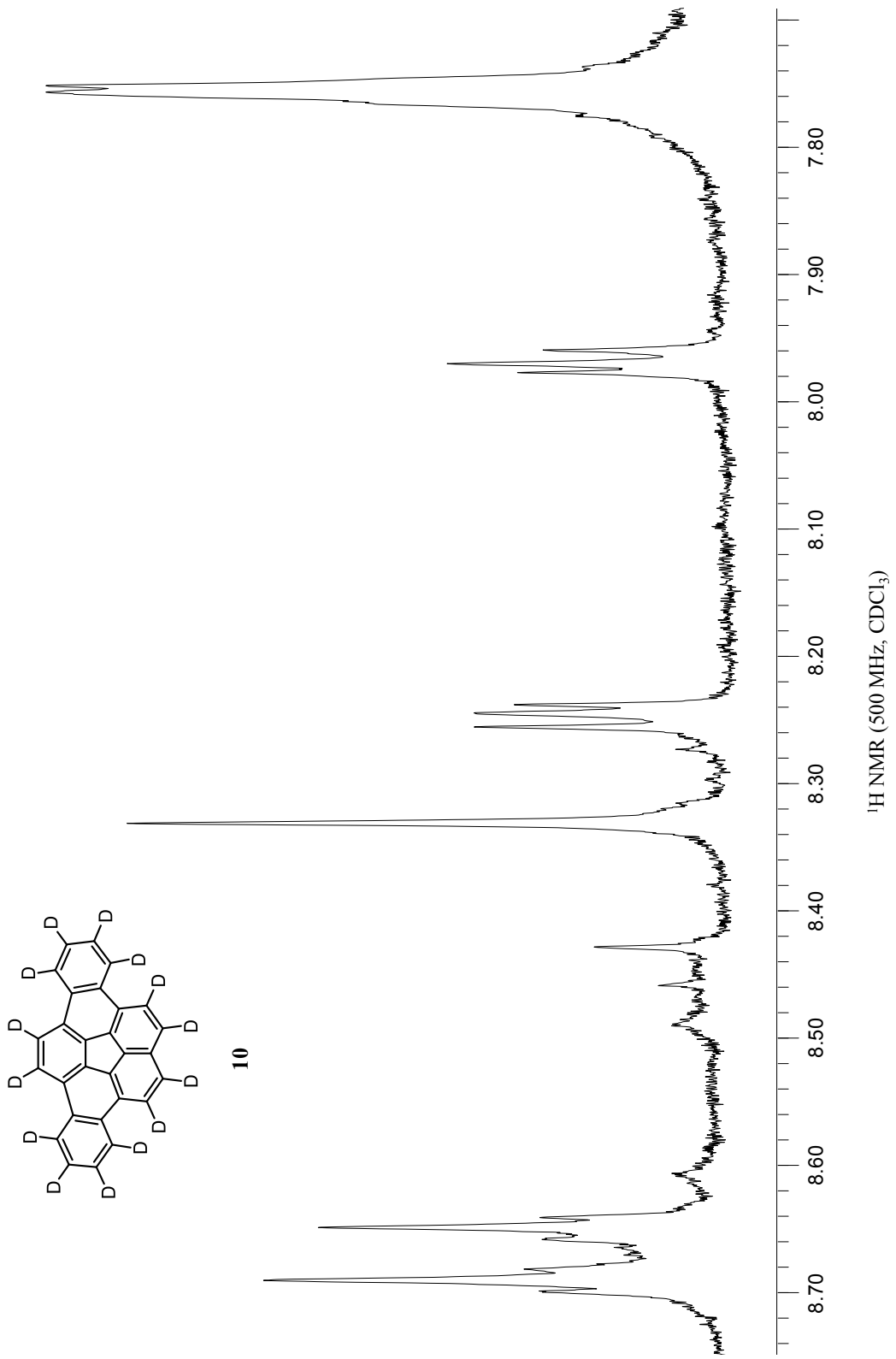


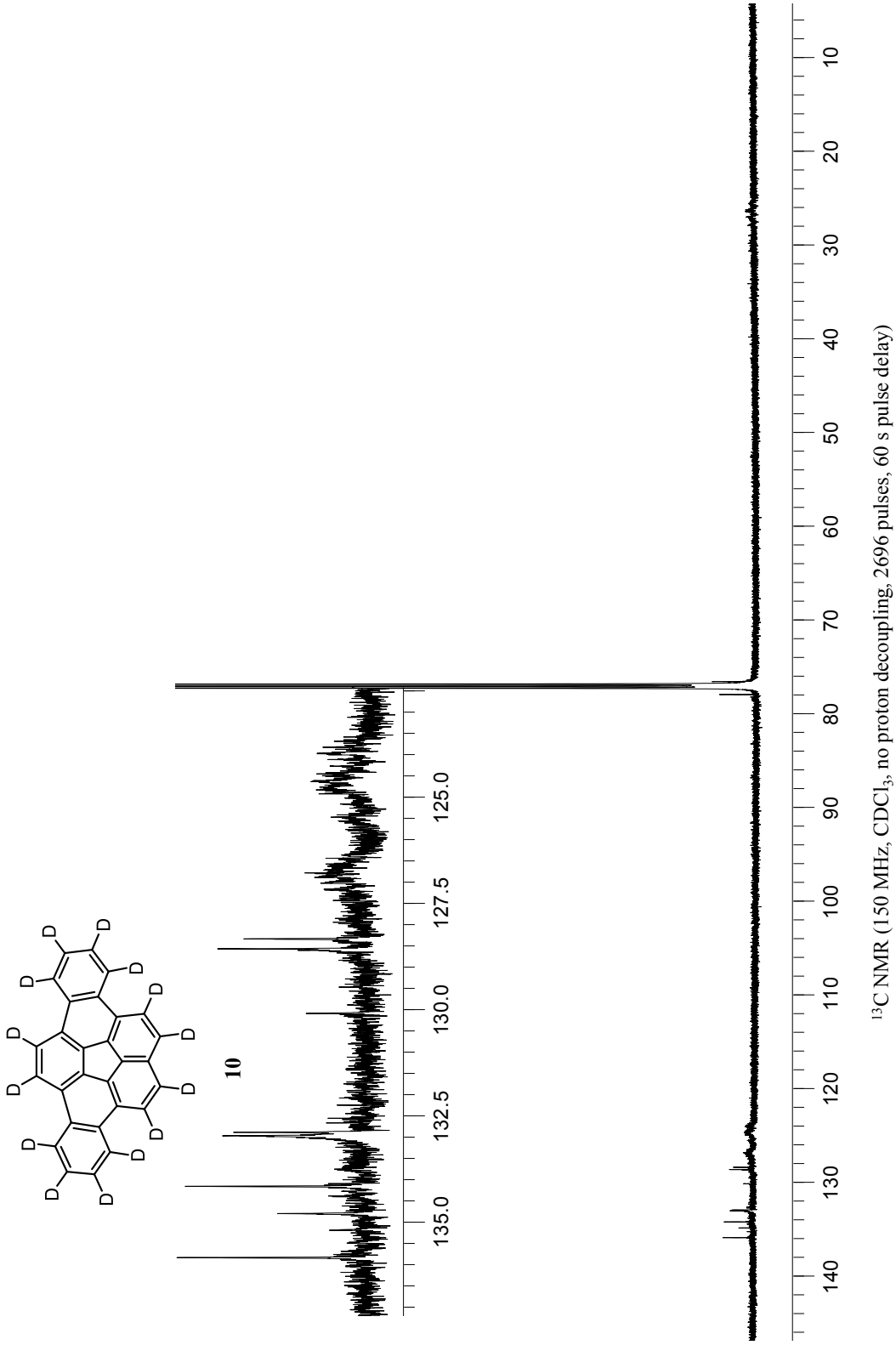
^{13}C NMR (150 MHz, $CDCl_3$, no proton decoupling, 376 pulses, 60 s pulse delay)


D
D
D
D
D
D
D
D
D
D
9
7.625
7.650
7.675
7.700
7.725
7.750
7.775
7.800
7.825
7.850
7.875
7.900
7.925
^{1}H NMR (500 MHz, $CDCl_3$)



^{13}C NMR (150 MHz, $CDCl_3$, no proton decoupling, 3184 pulses, 60 s pulse delay)


D
10
8.70
8.60
8.50
8.40
8.30
8.20
8.10
8.00
7.90
7.80
^{1}H NMR (500 MHz, $CDCl_3$)



^{13}C NMR (150 MHz, $CDCl_3$, no proton decoupling, 2696 pulses, 60 s pulse delay)