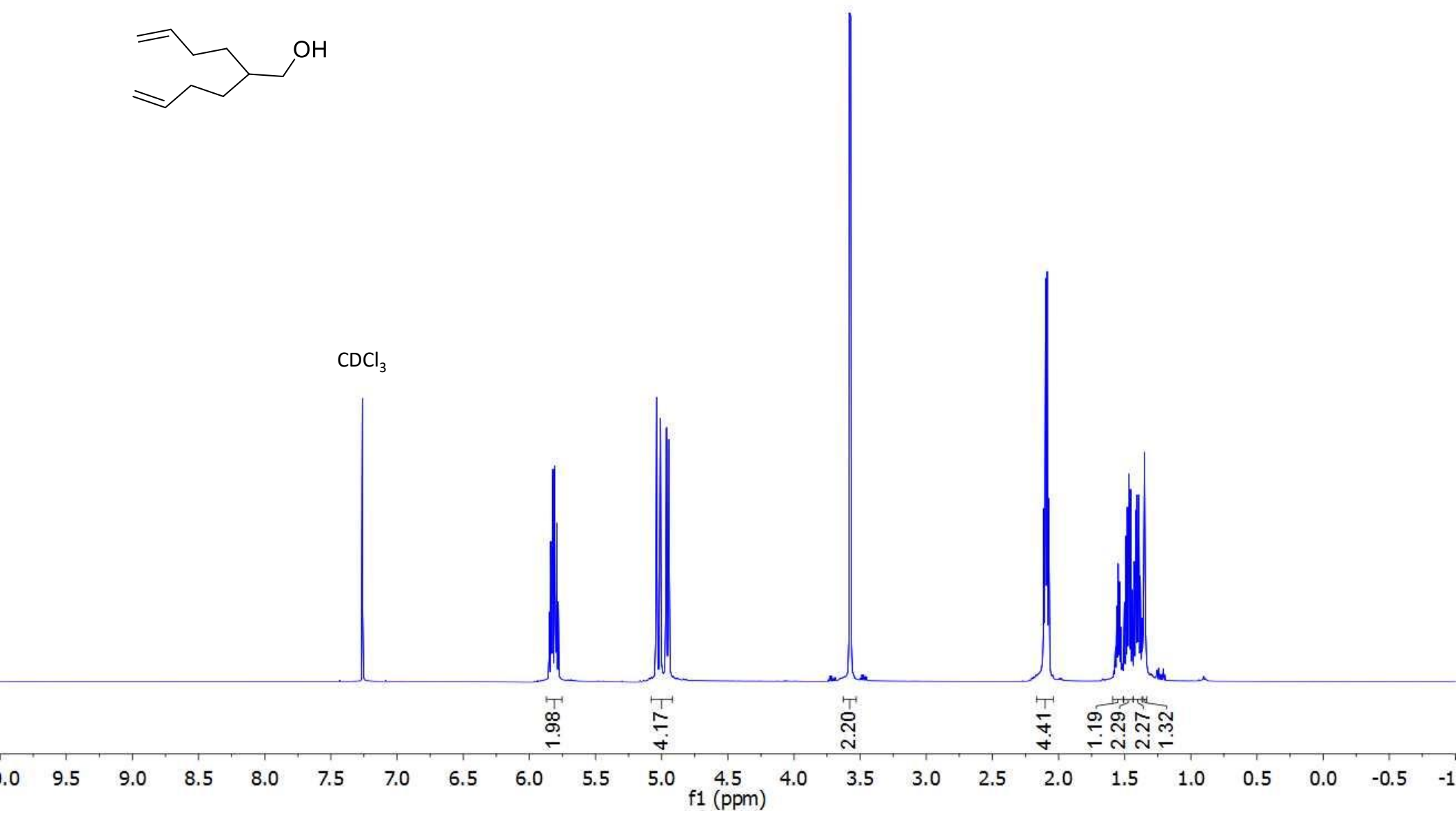
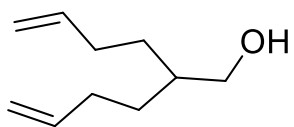
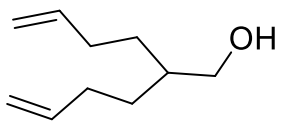


^1H NMR (600 MHz, CDCl_3)



^{13}C NMR (100 MHz, CDCl_3)



—139.03

—114.65

—65.28

—39.47

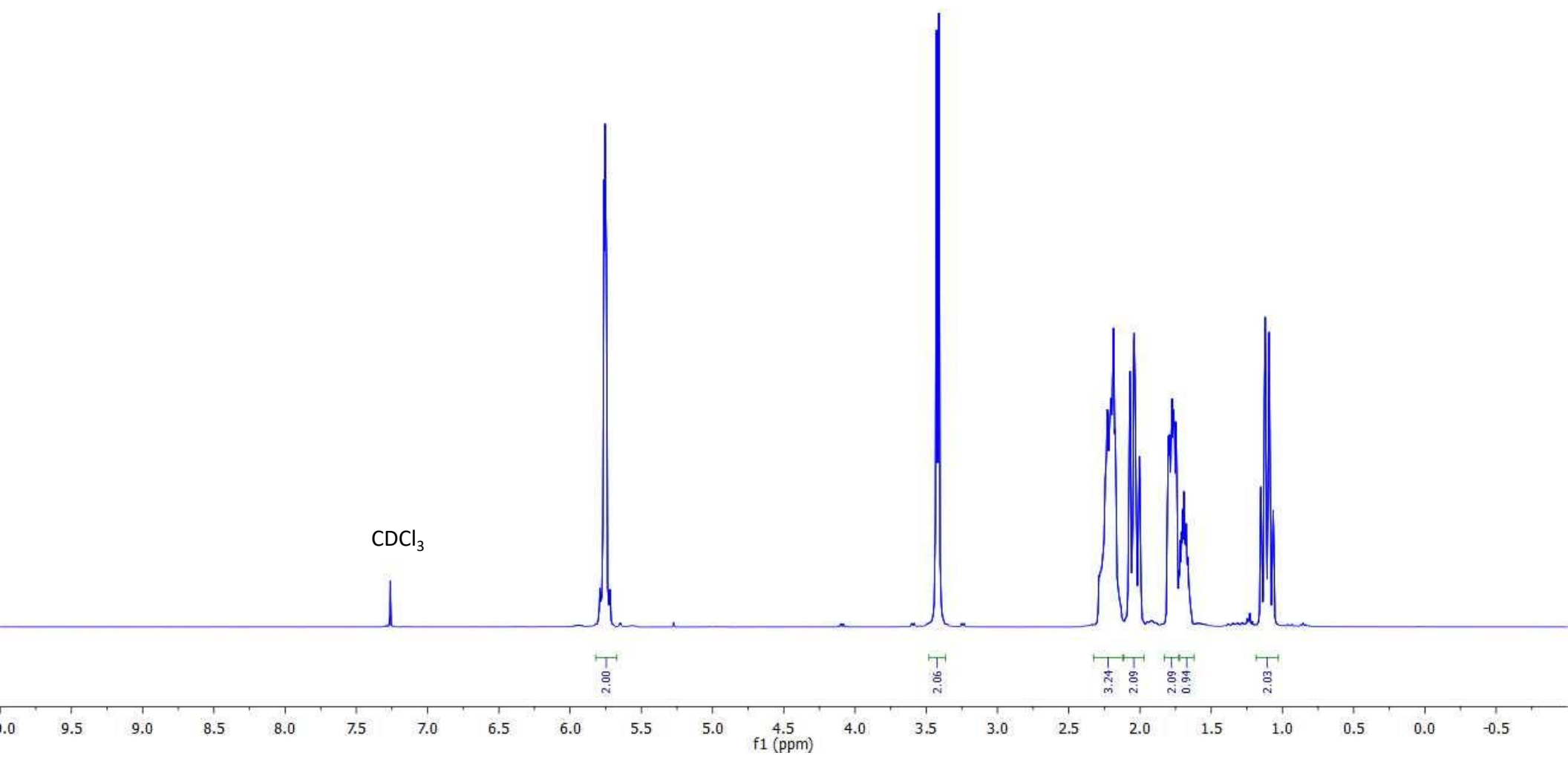
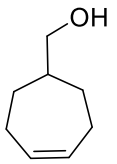
31.19

30.15

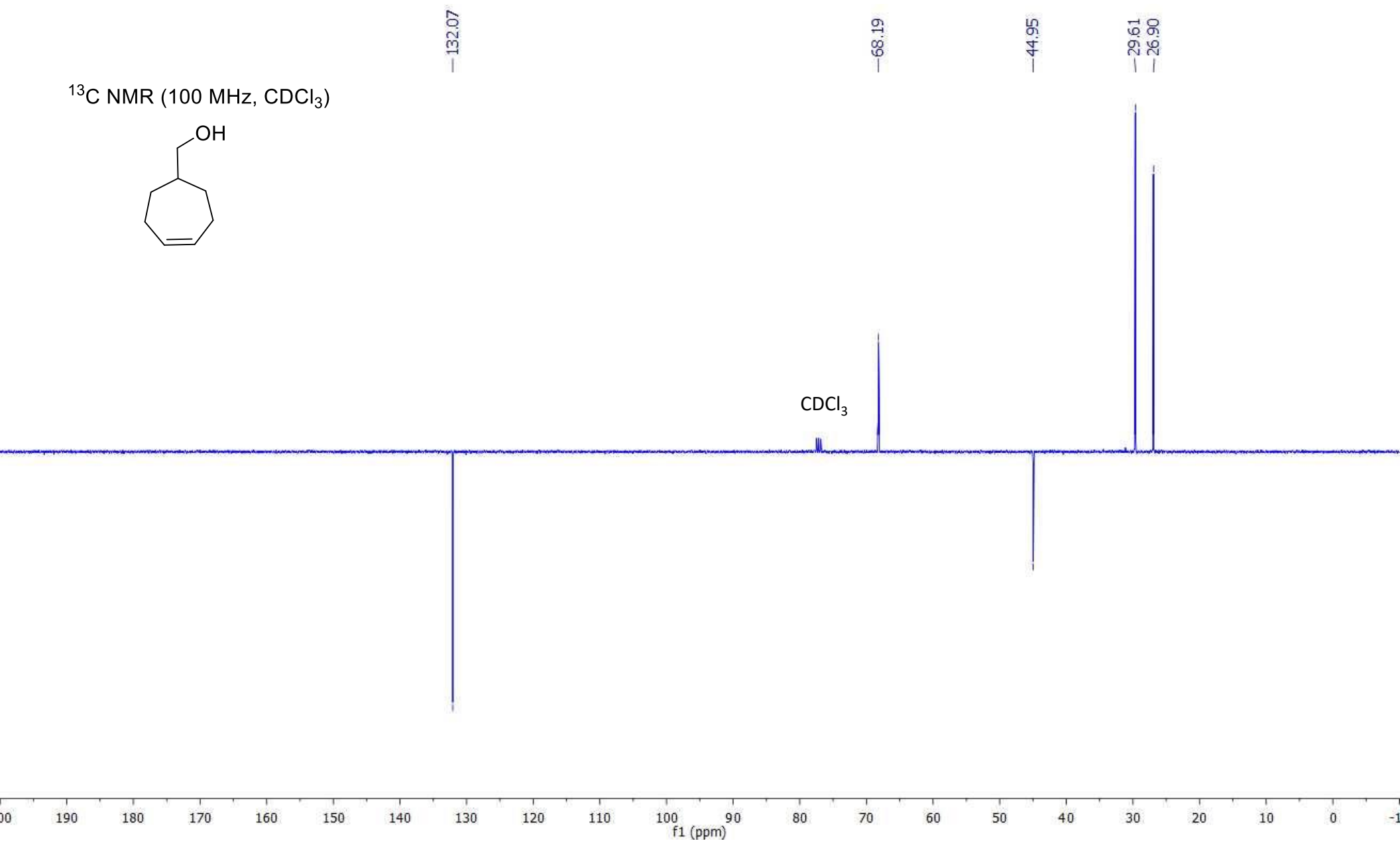
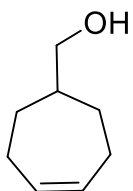
CDCl_3

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10
f1 (ppm)

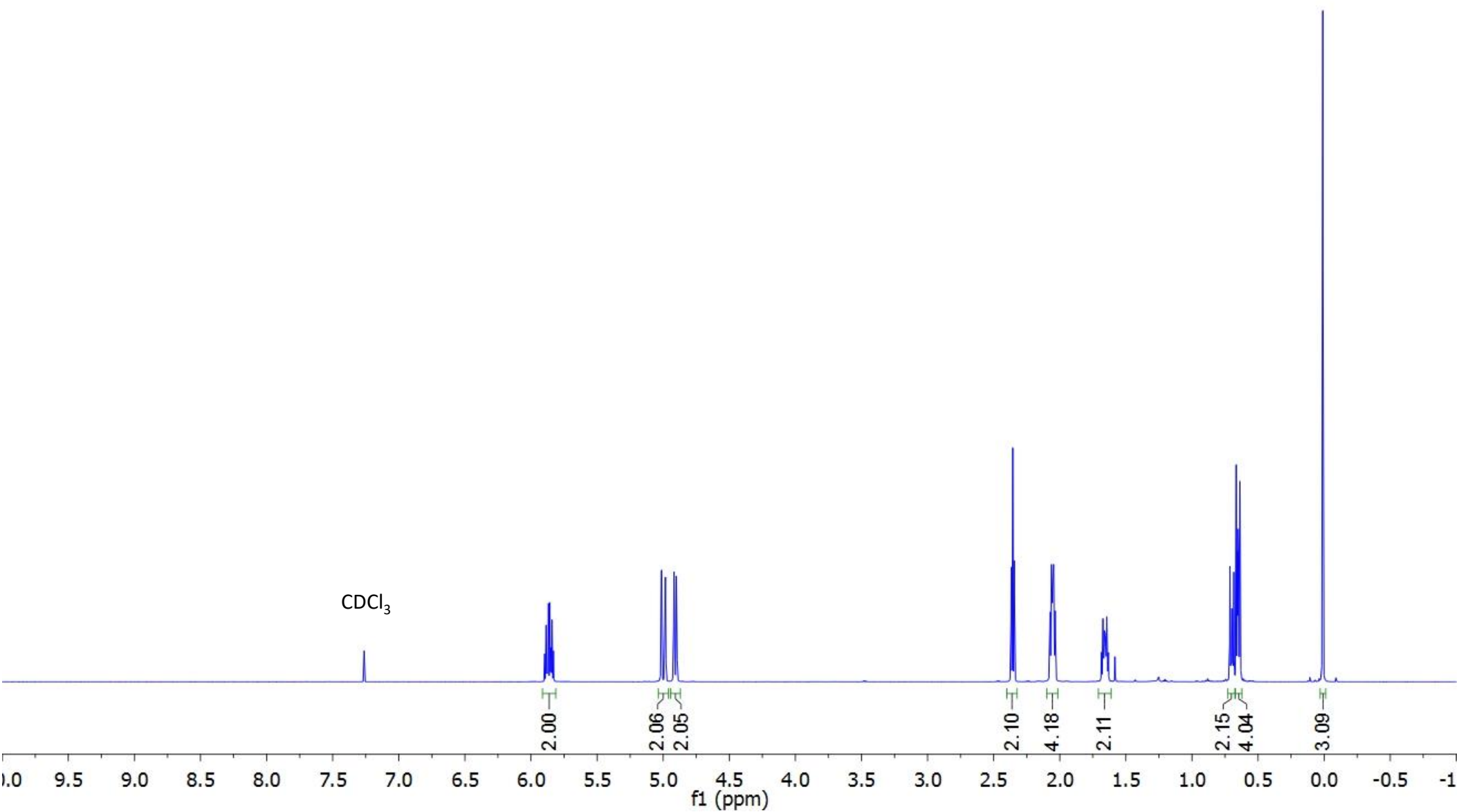
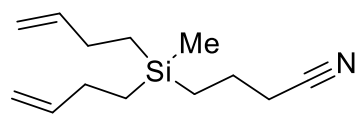
^1H NMR (400 MHz, CDCl_3)



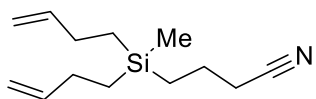
^{13}C NMR (100 MHz, CDCl_3)



^1H NMR (600 MHz, CDCl_3)



^{13}C NMR (150 MHz, CDCl_3)



—141.33

—119.81

—113.19

—27.90

—21.09

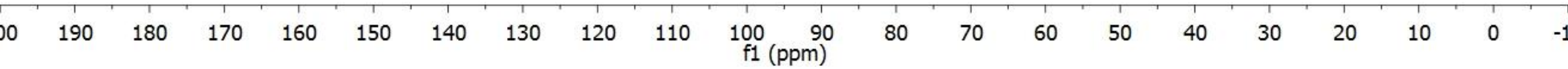
—20.72

—13.76

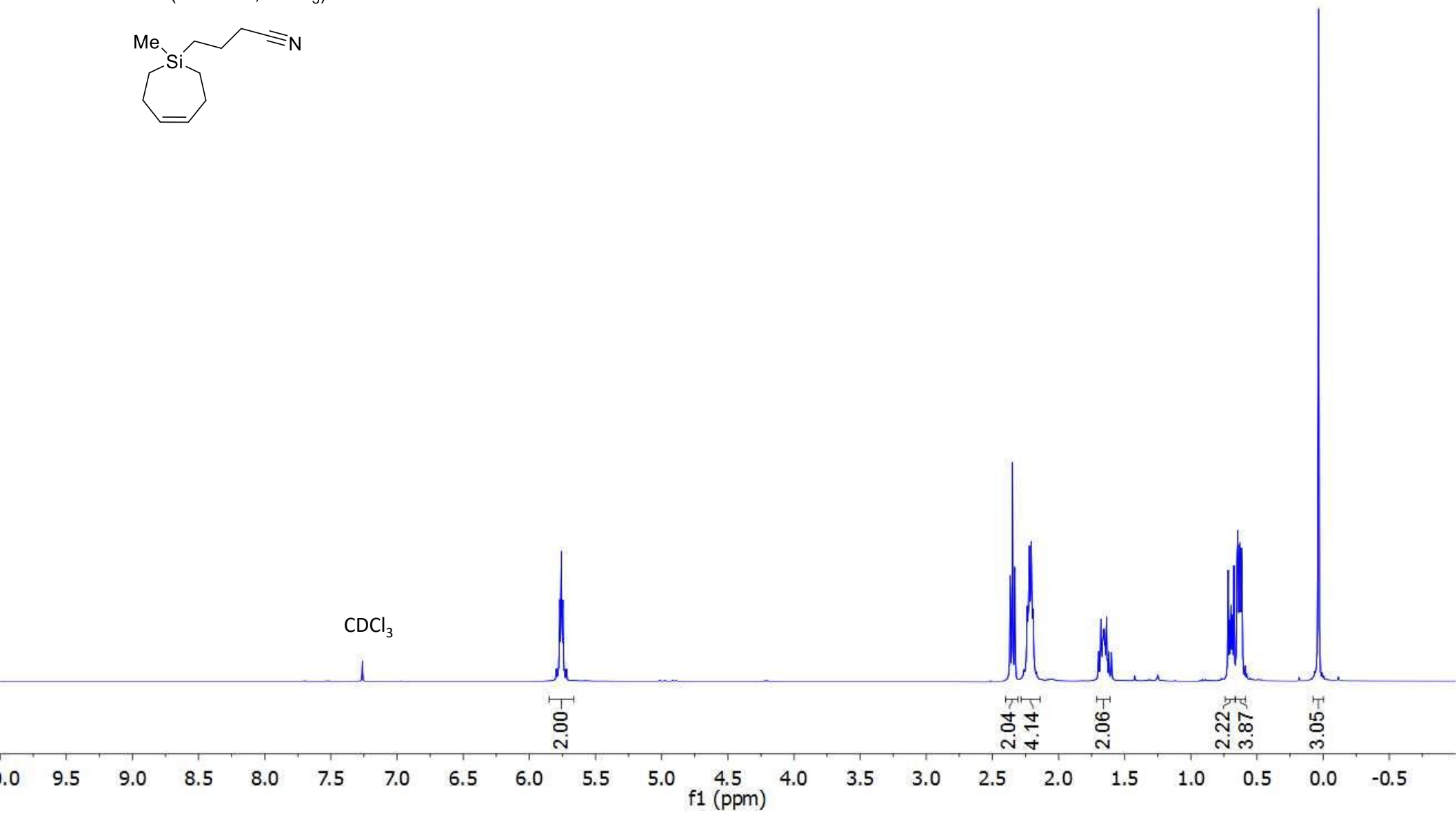
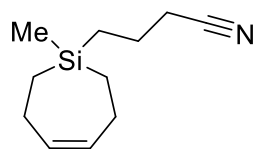
—12.78

—5.17

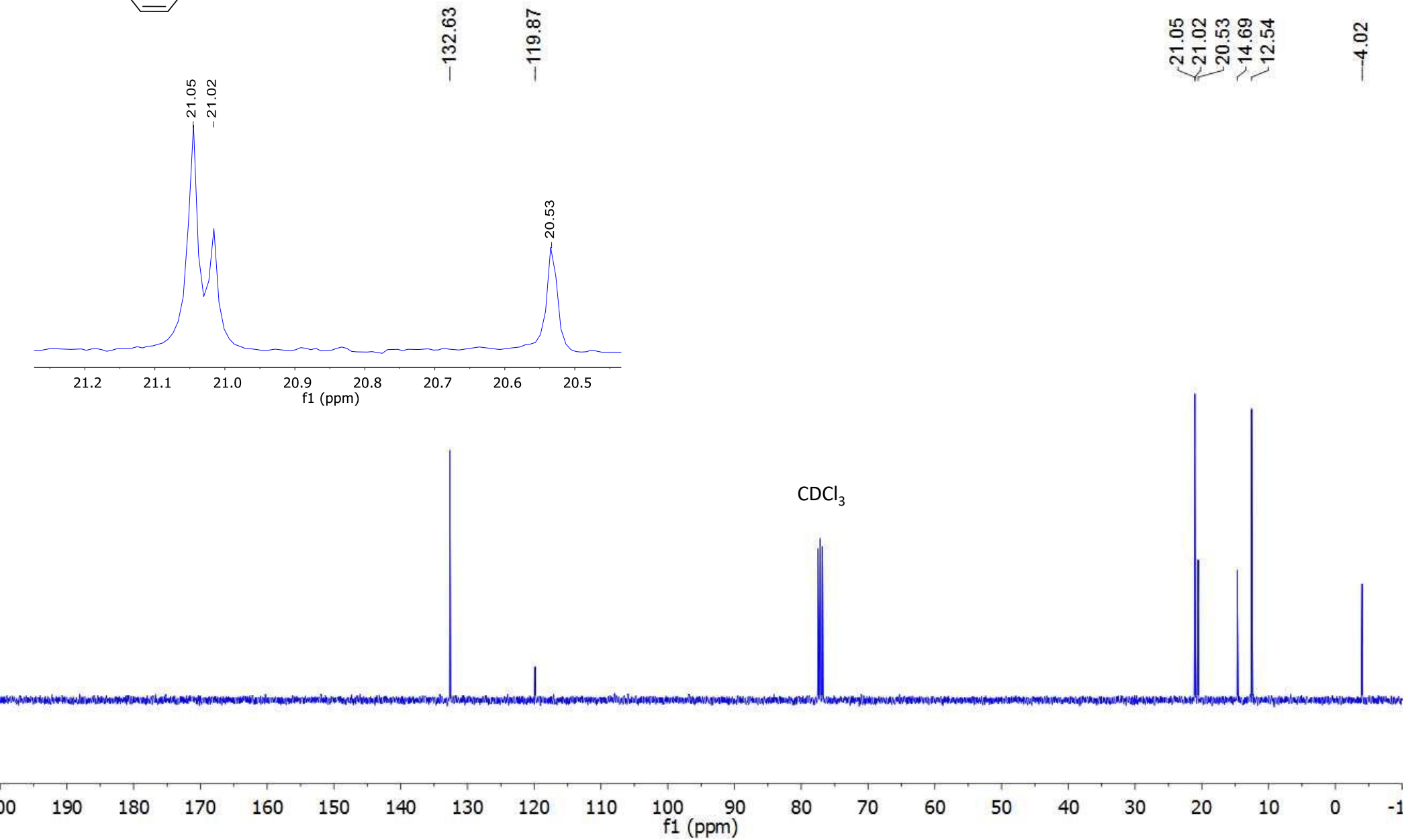
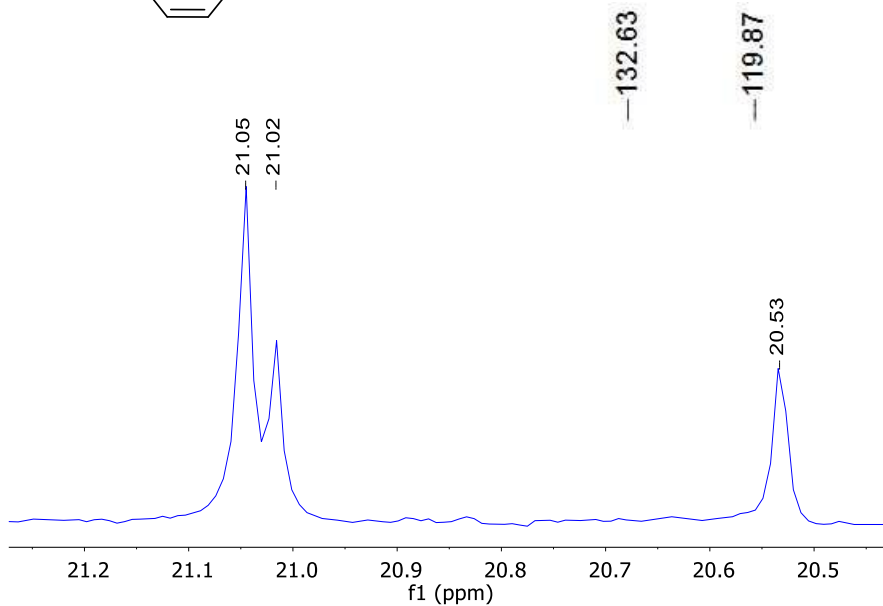
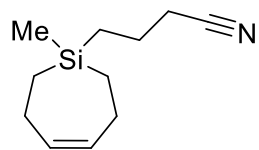
CDCl_3



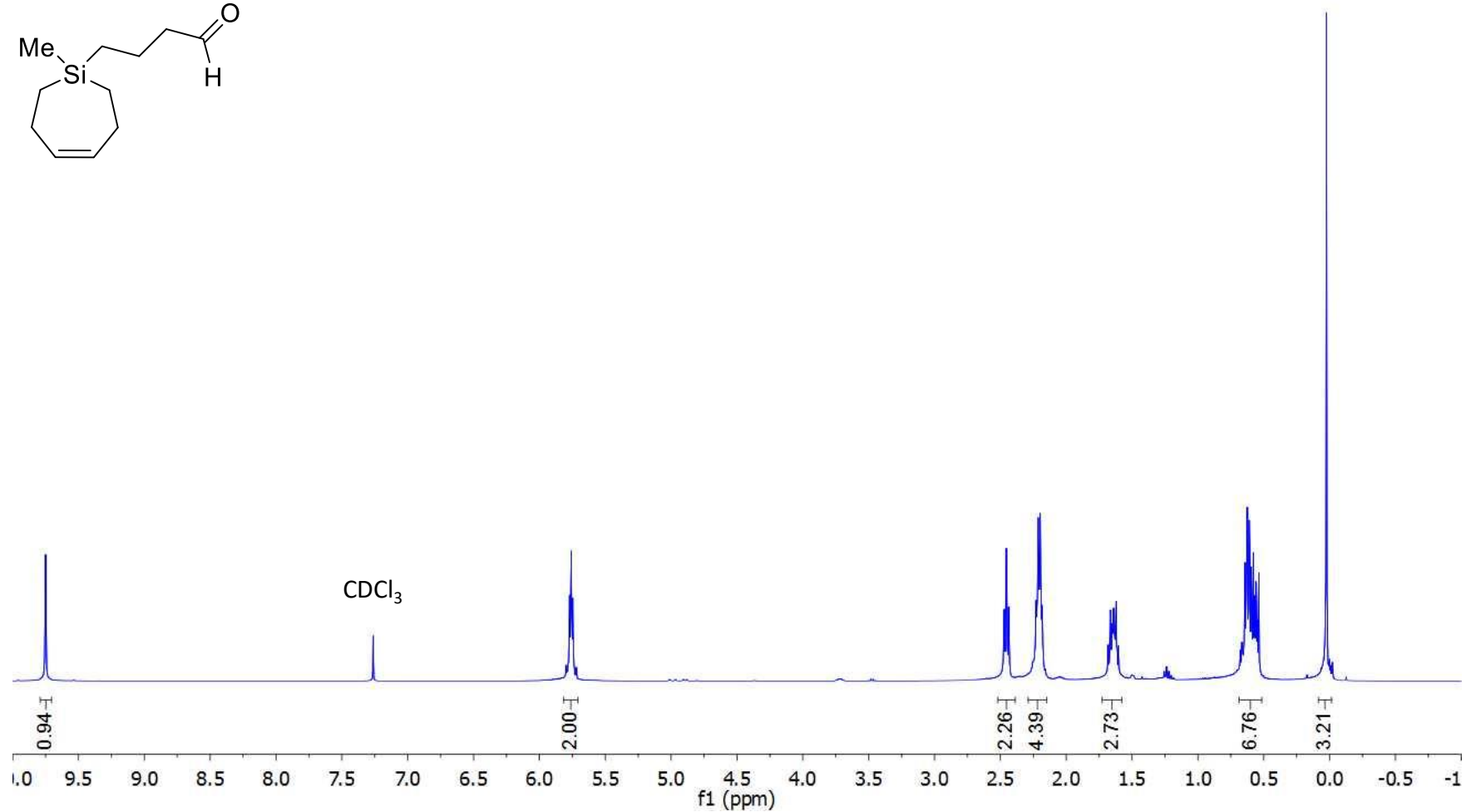
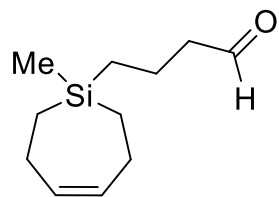
¹H NMR (400 MHz, CDCl₃)

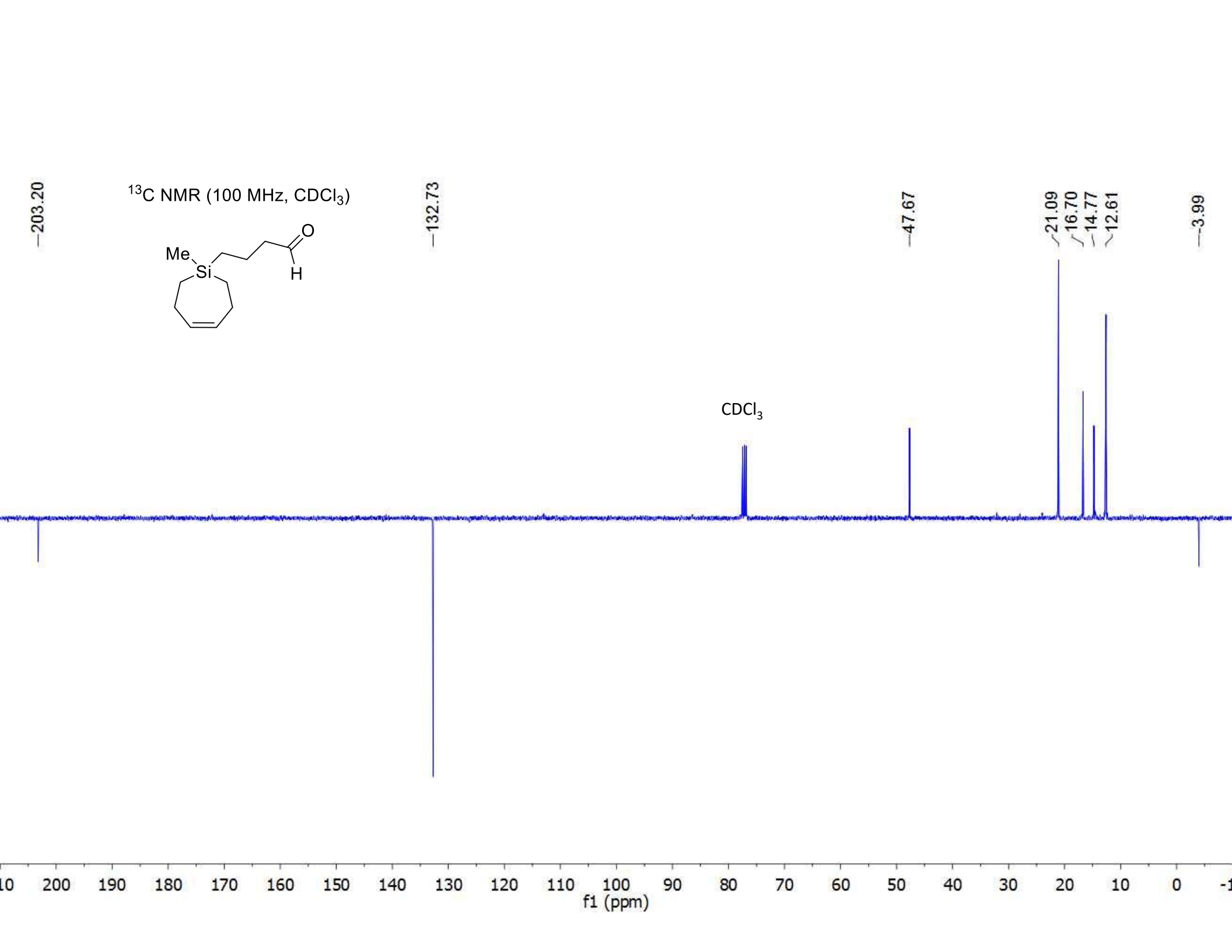


^{13}C NMR (100 MHz, CDCl_3)

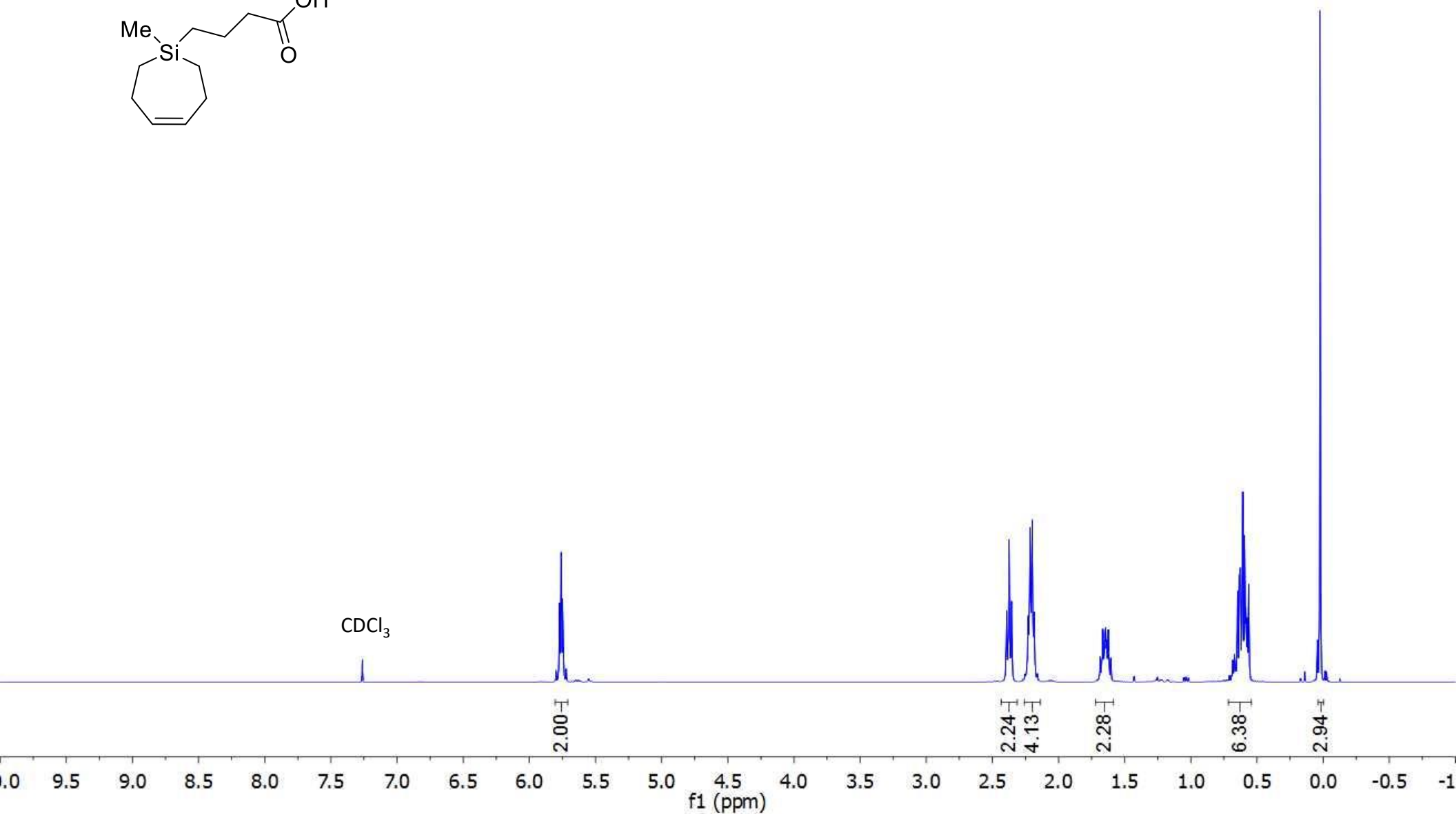
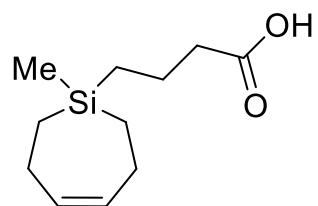


^1H NMR (400 MHz, CDCl_3)

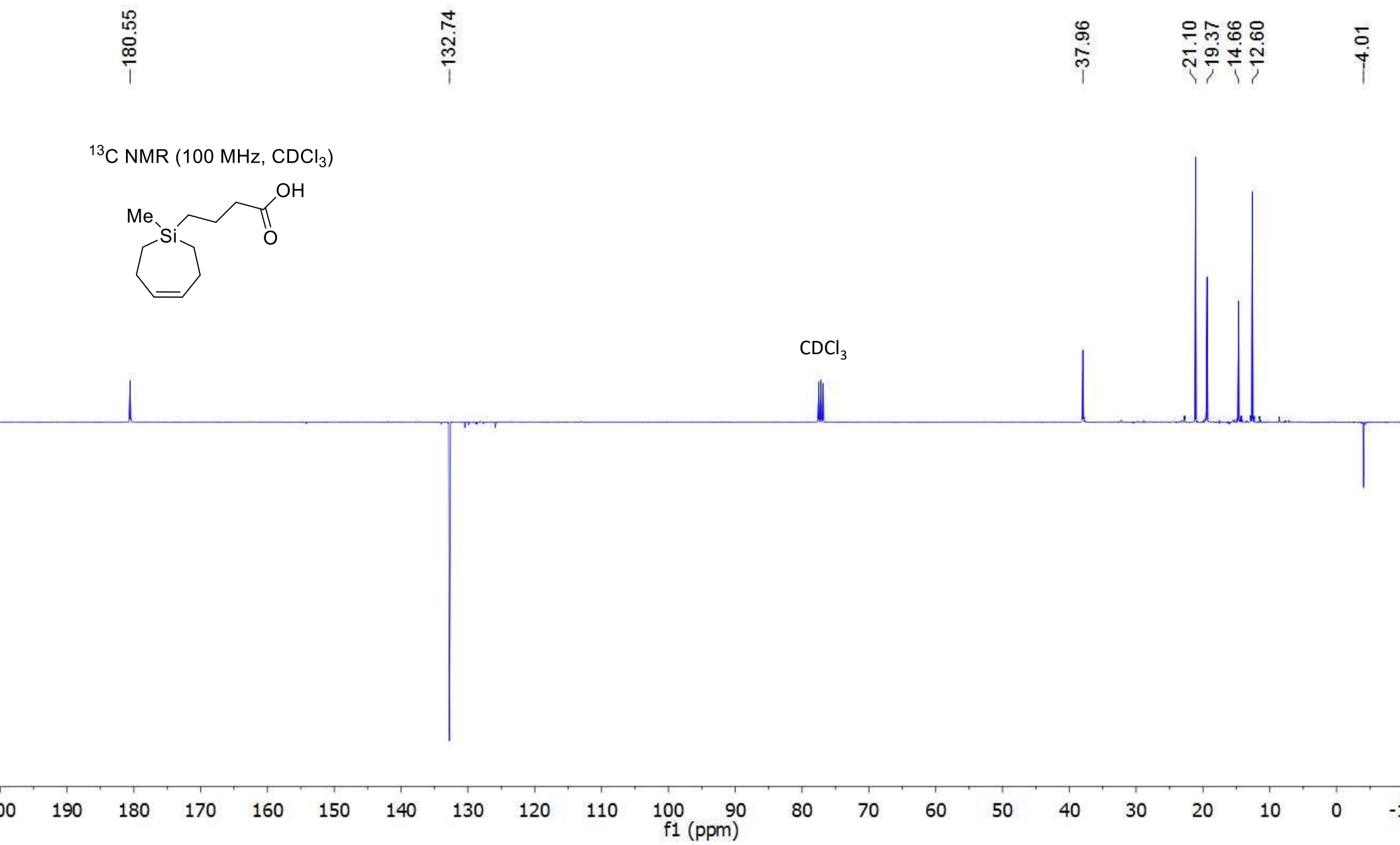
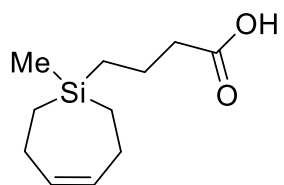




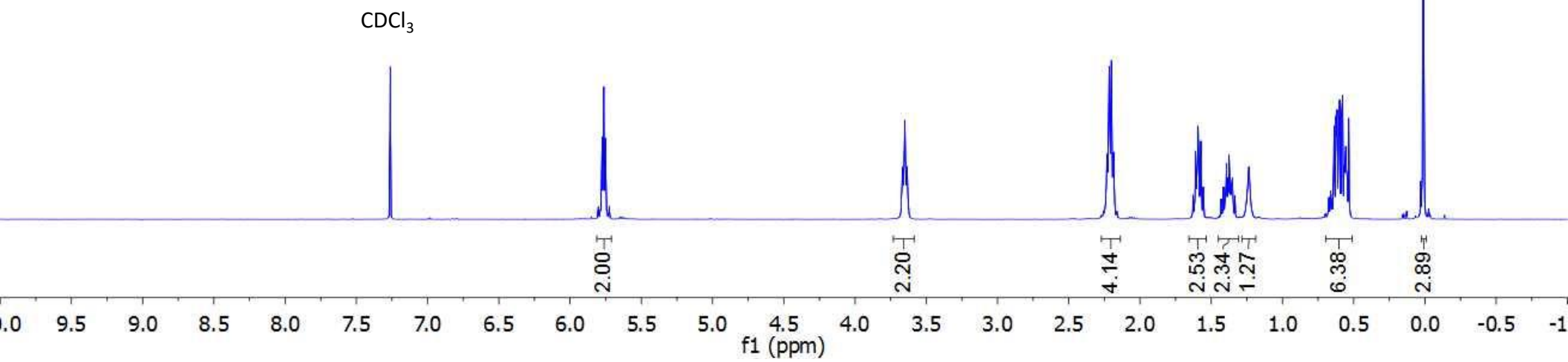
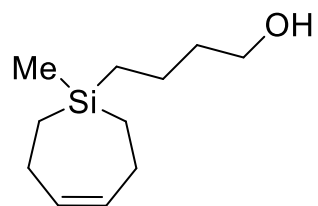
^1H NMR (400 MHz, CDCl_3)



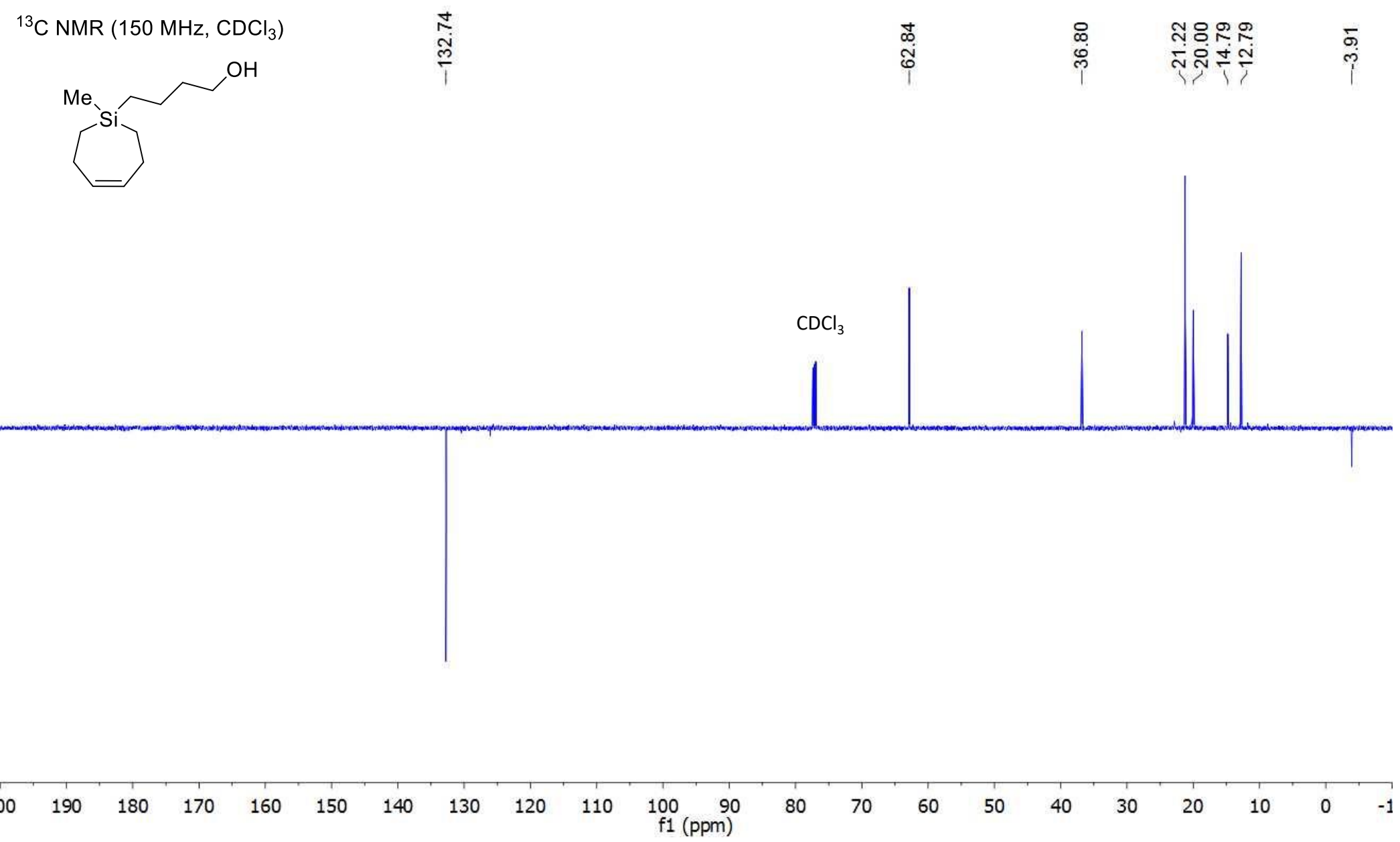
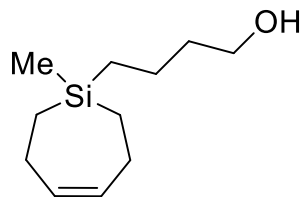
^{13}C NMR (100 MHz, CDCl_3)



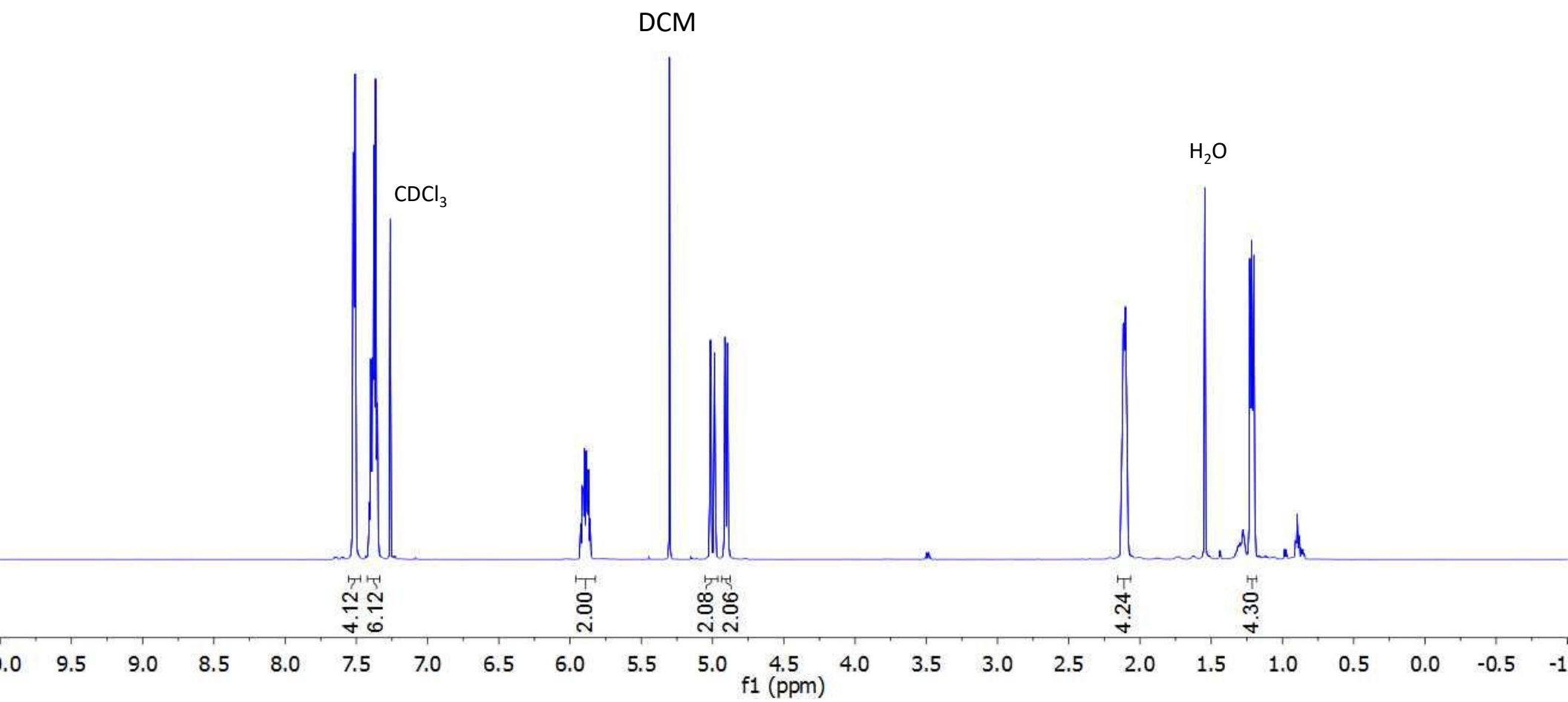
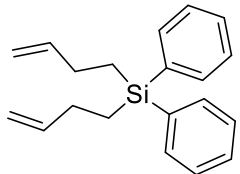
^1H NMR (400 MHz, CDCl_3)



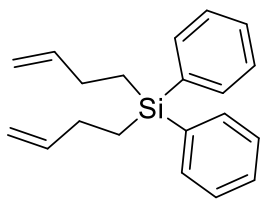
¹³C NMR (150 MHz, CDCl₃)



^1H NMR (600 MHz, CDCl_3)



^{13}C NMR (100 MHz, CDCl_3)



141.39

135.83

135.02

129.41

127.99

113.11

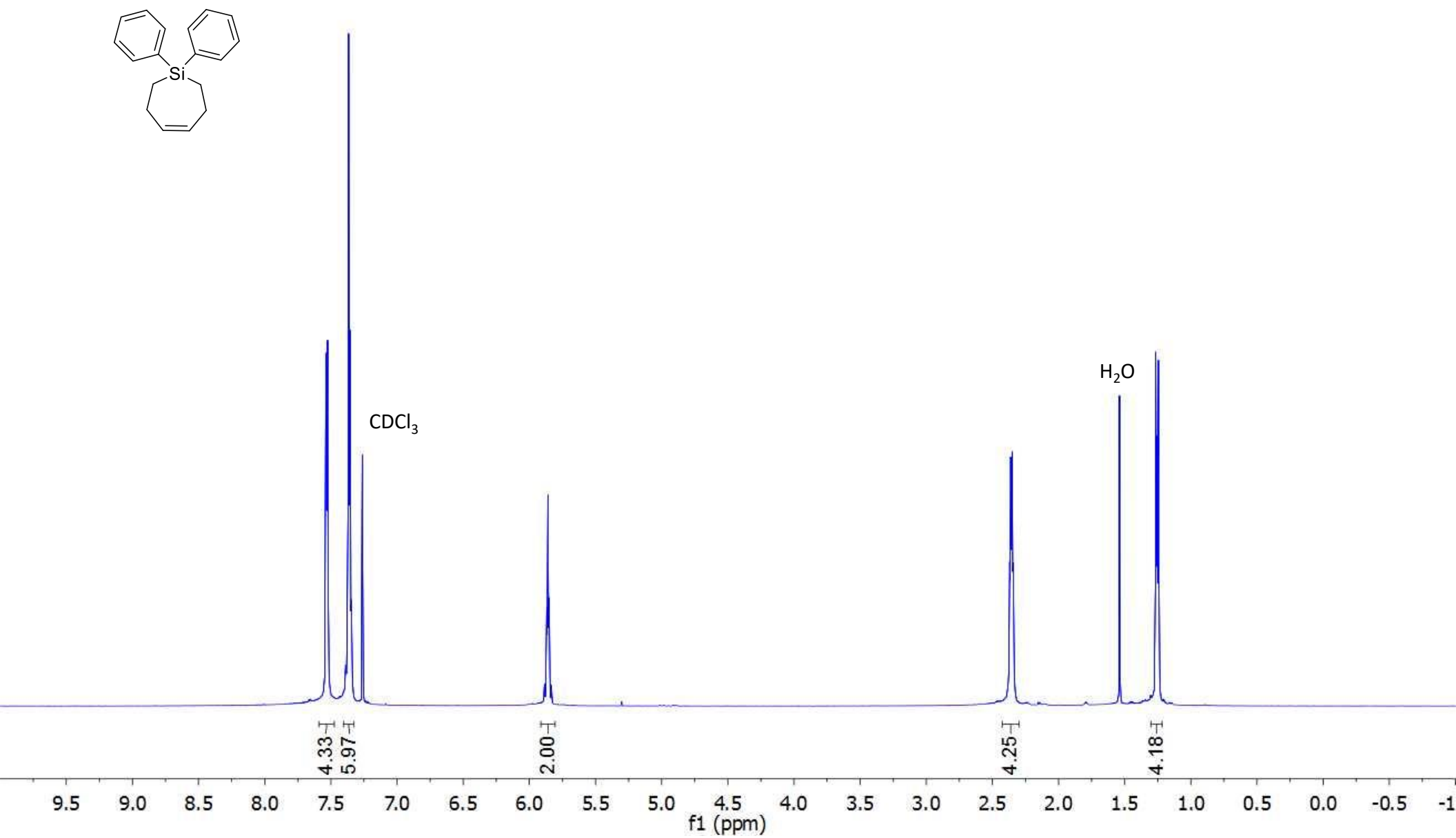
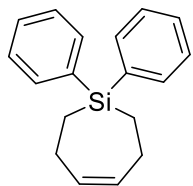
CDCl_3

27.85

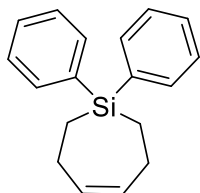
11.75

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -1
f1 (ppm)

^1H NMR (600 MHz, CDCl_3)



^{13}C NMR (100 MHz, CDCl_3)



137.16
134.70
132.72
129.29
128.03

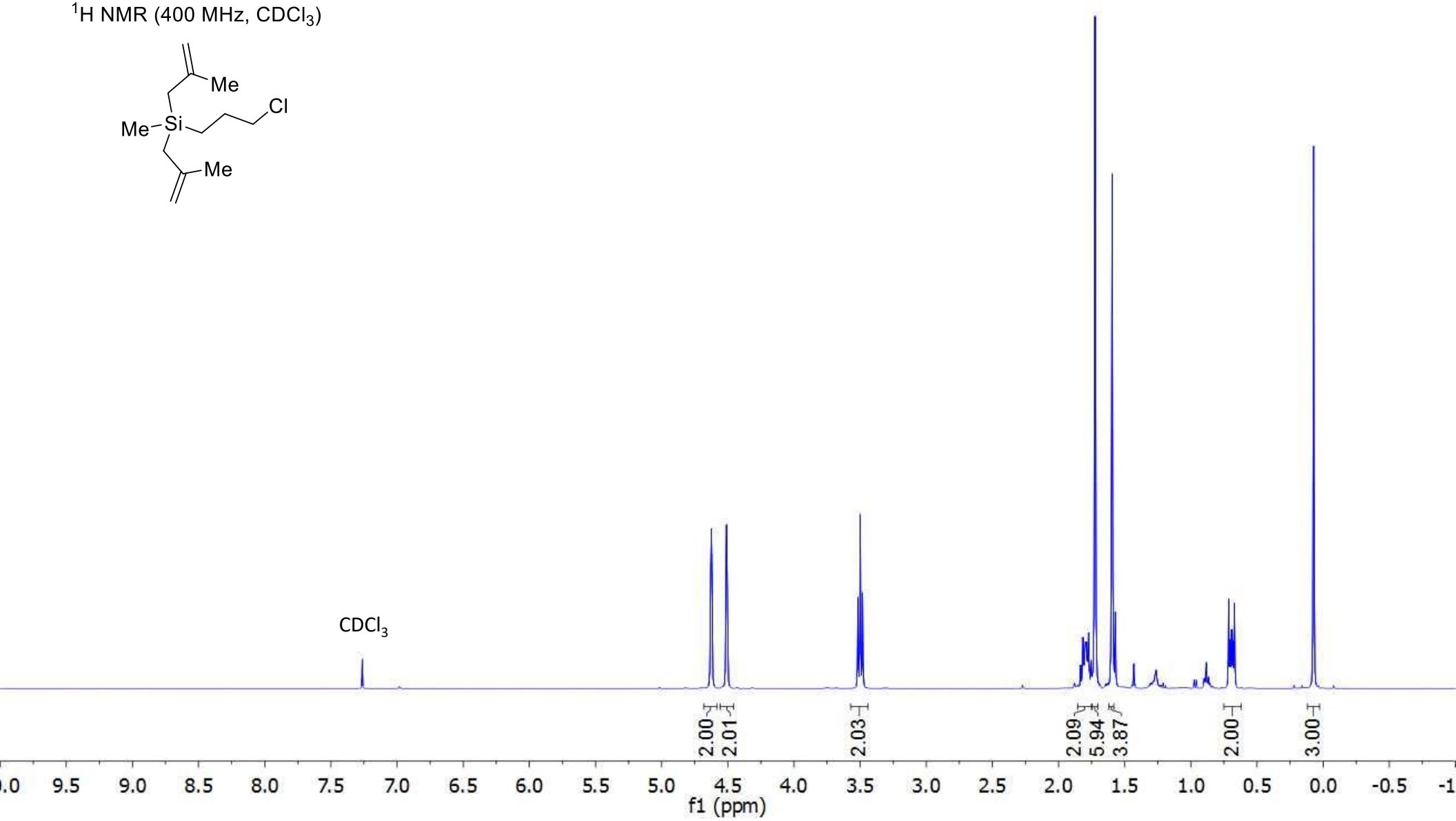
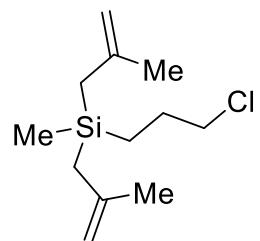
CDCl_3

-21.12

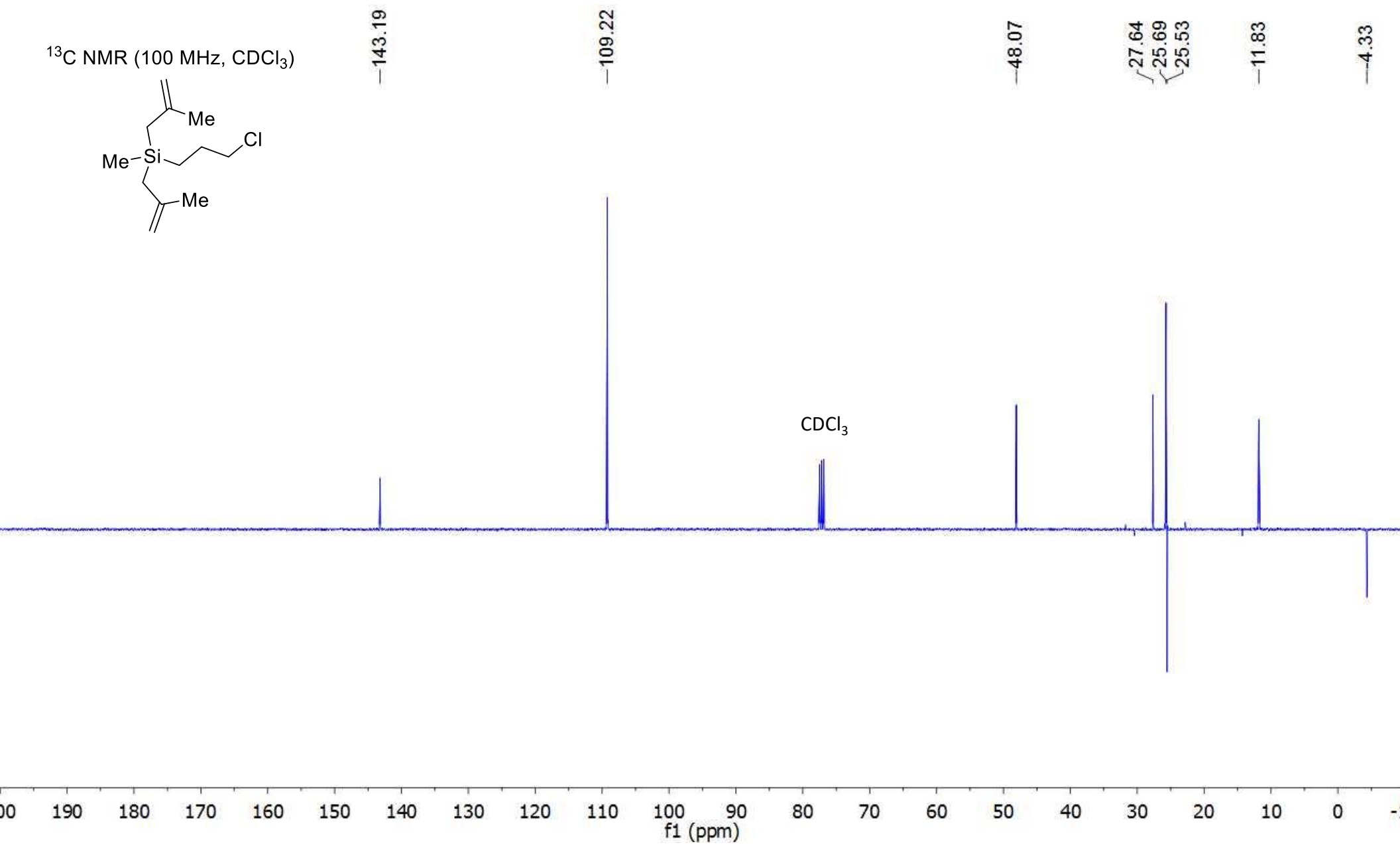
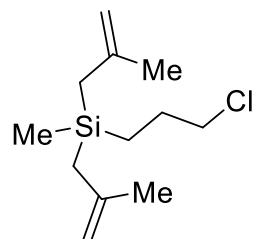
-11.39

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10
f1 (ppm)

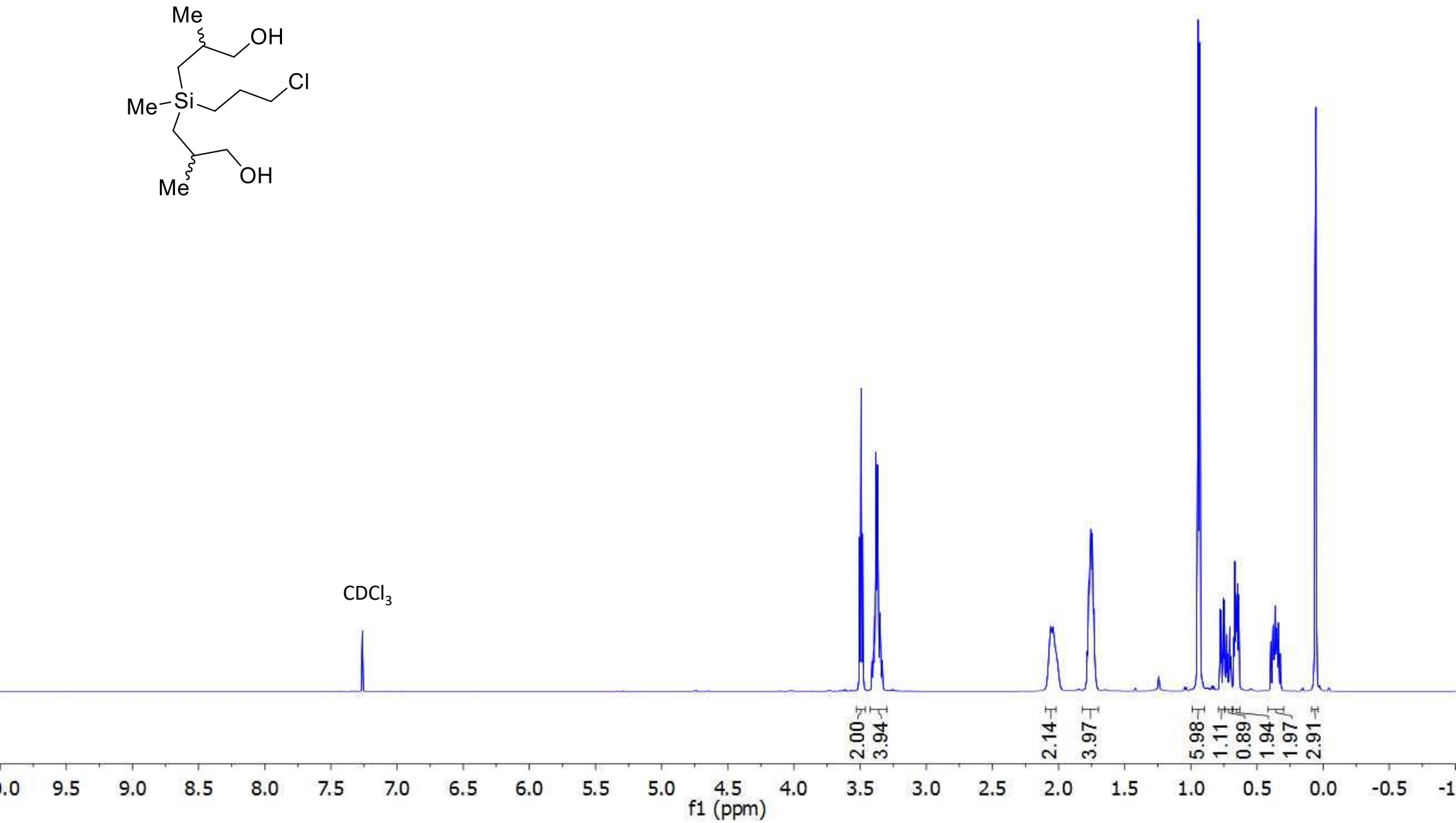
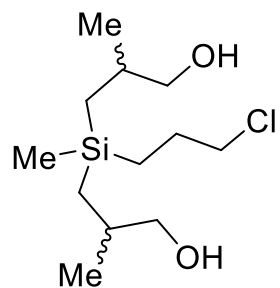
^1H NMR (400 MHz, CDCl_3)



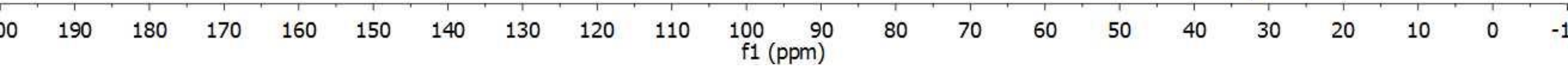
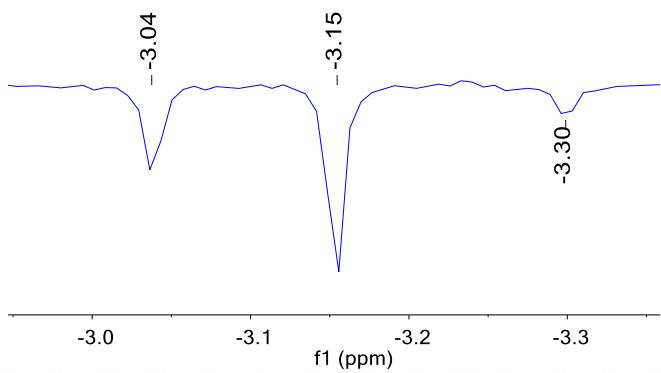
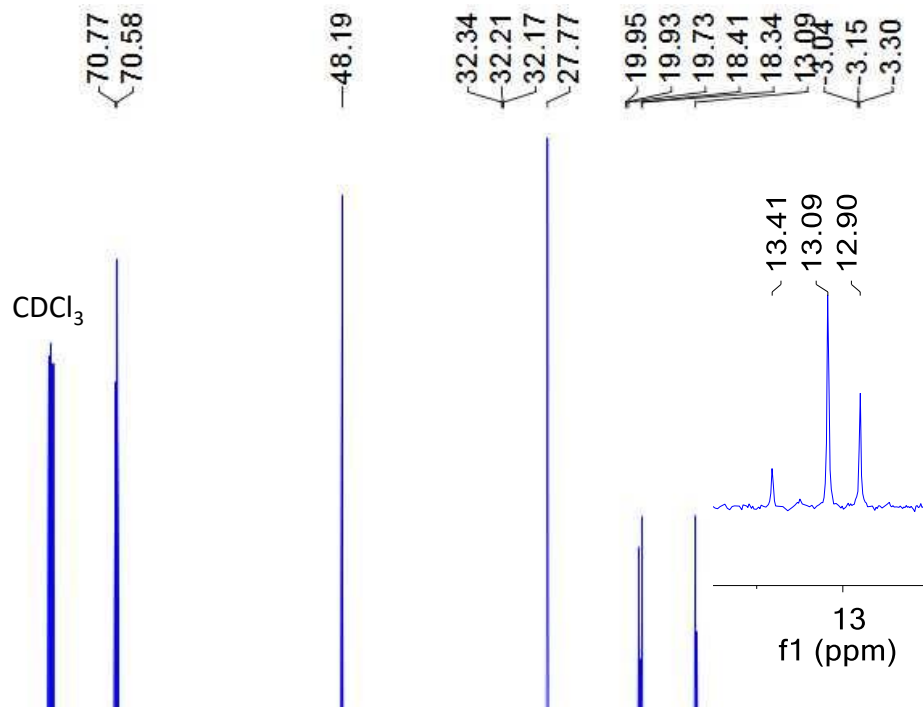
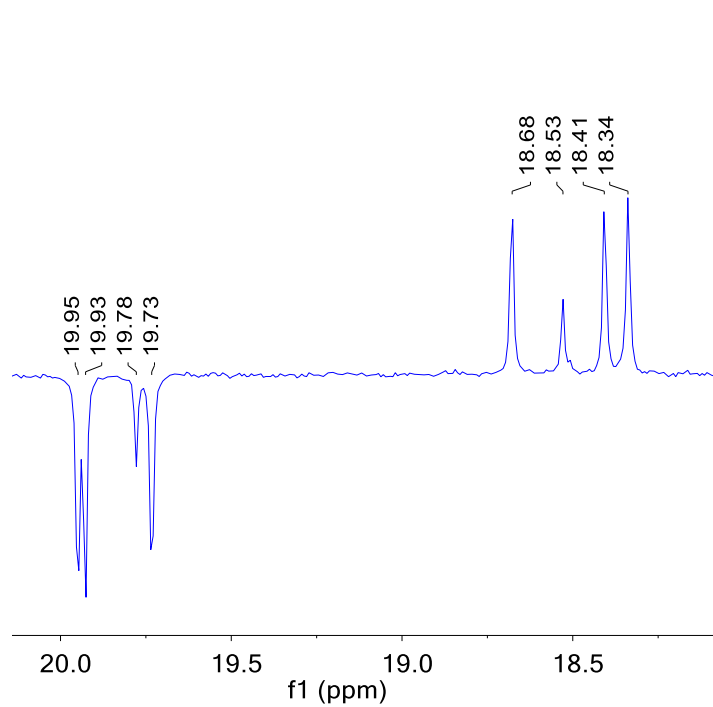
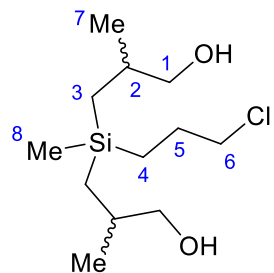
^{13}C NMR (100 MHz, CDCl_3)



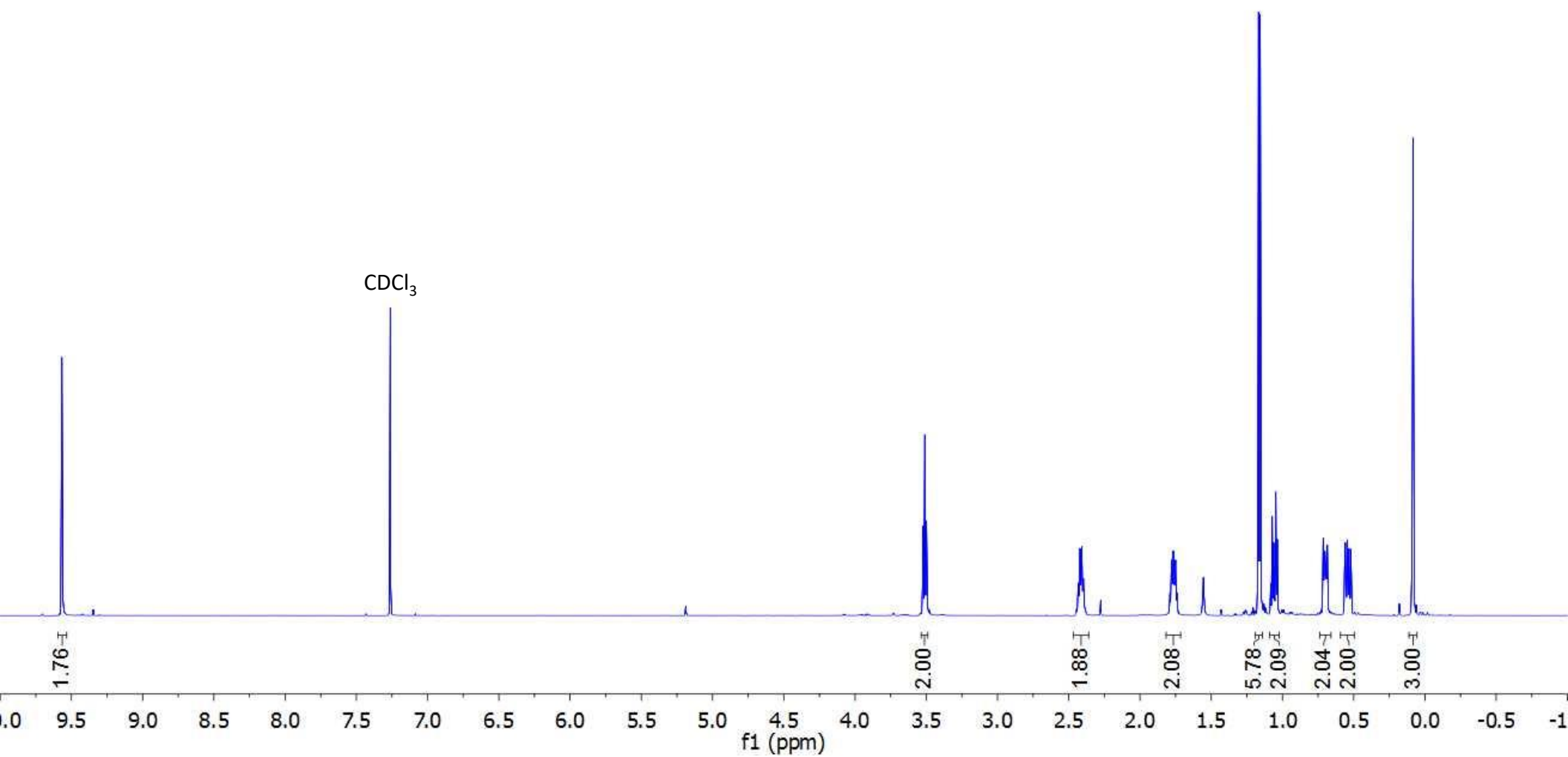
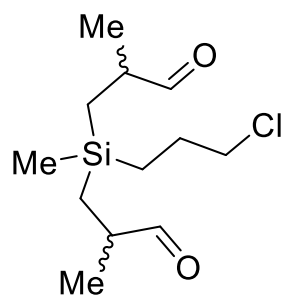
^1H NMR (600 MHz, CDCl_3)



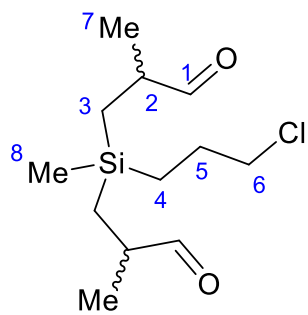
^{13}C NMR (150 MHz, CDCl_3)



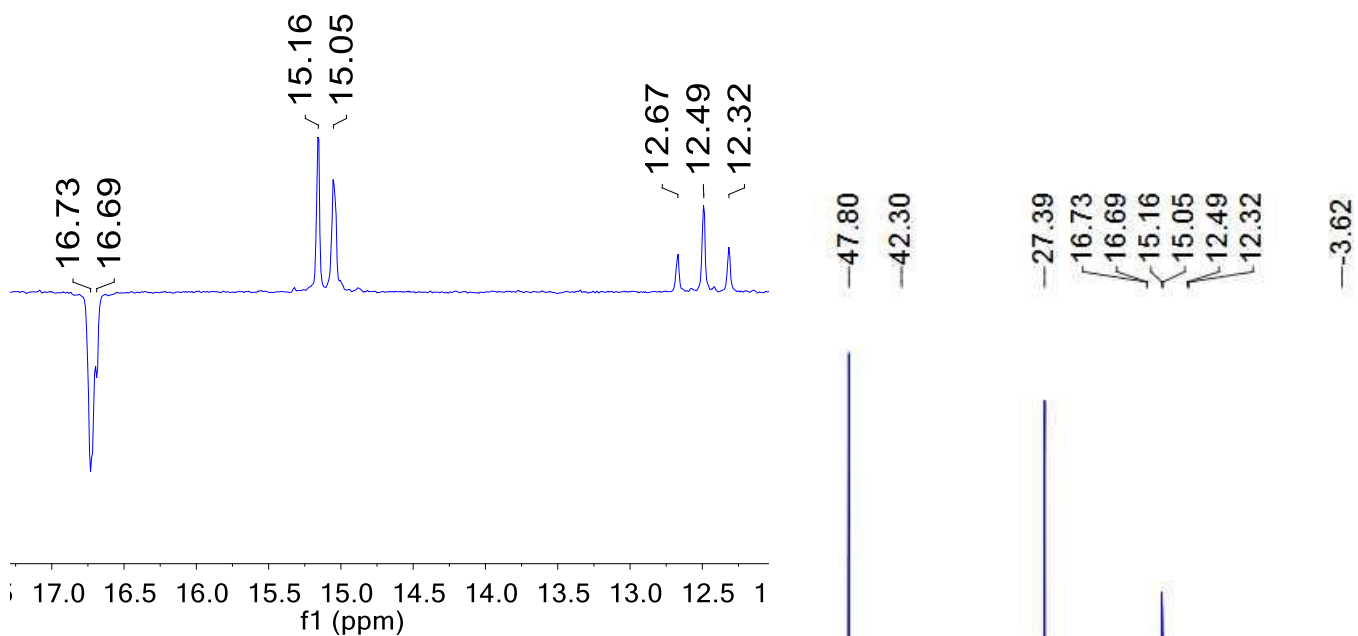
^1H NMR (600 MHz, CDCl_3)



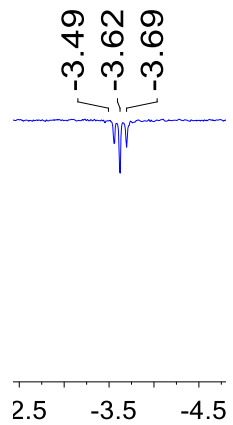
^{13}C NMR (150 MHz, CDCl_3)



—204.36



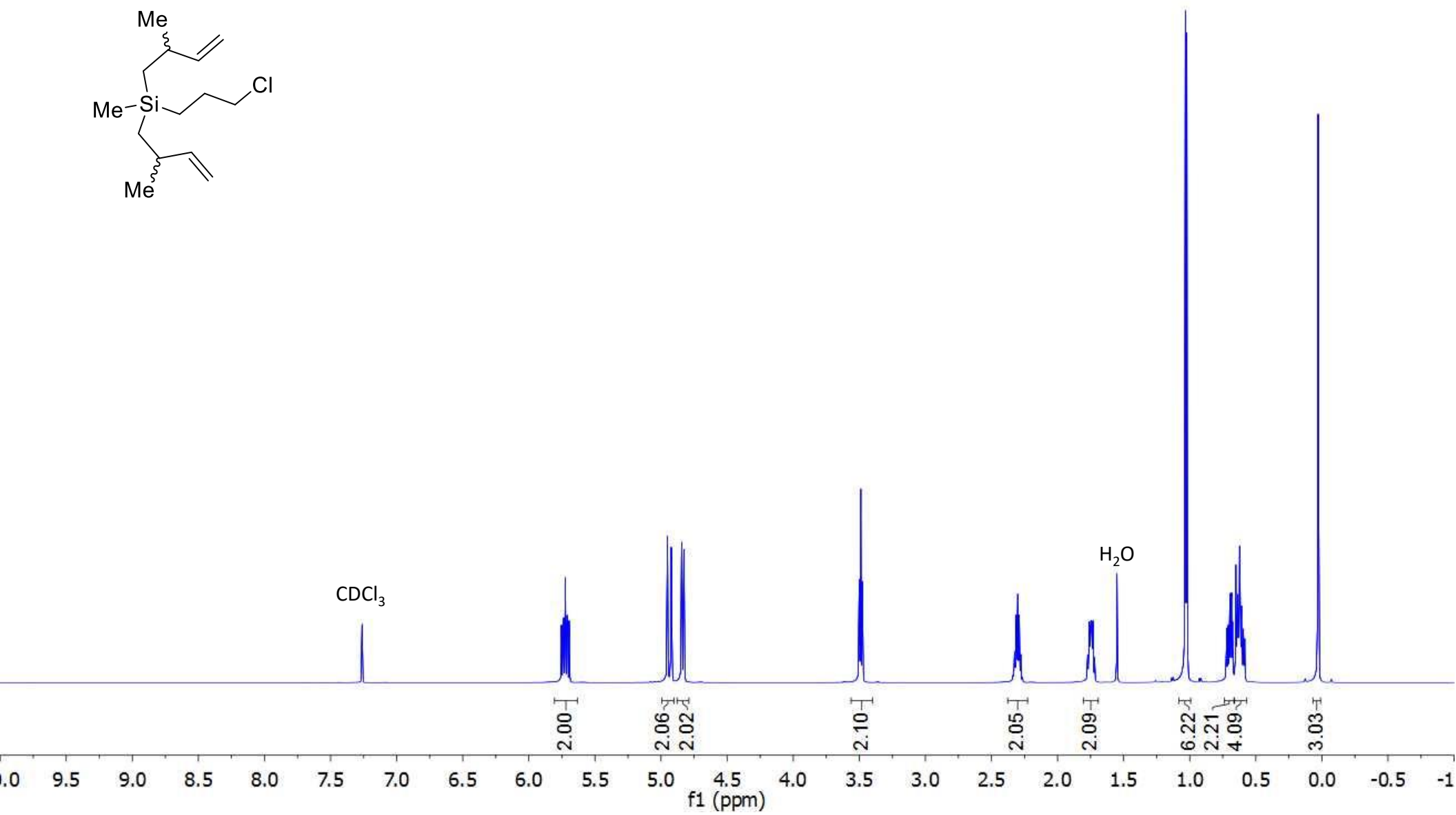
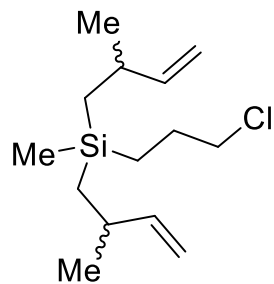
CDCl_3



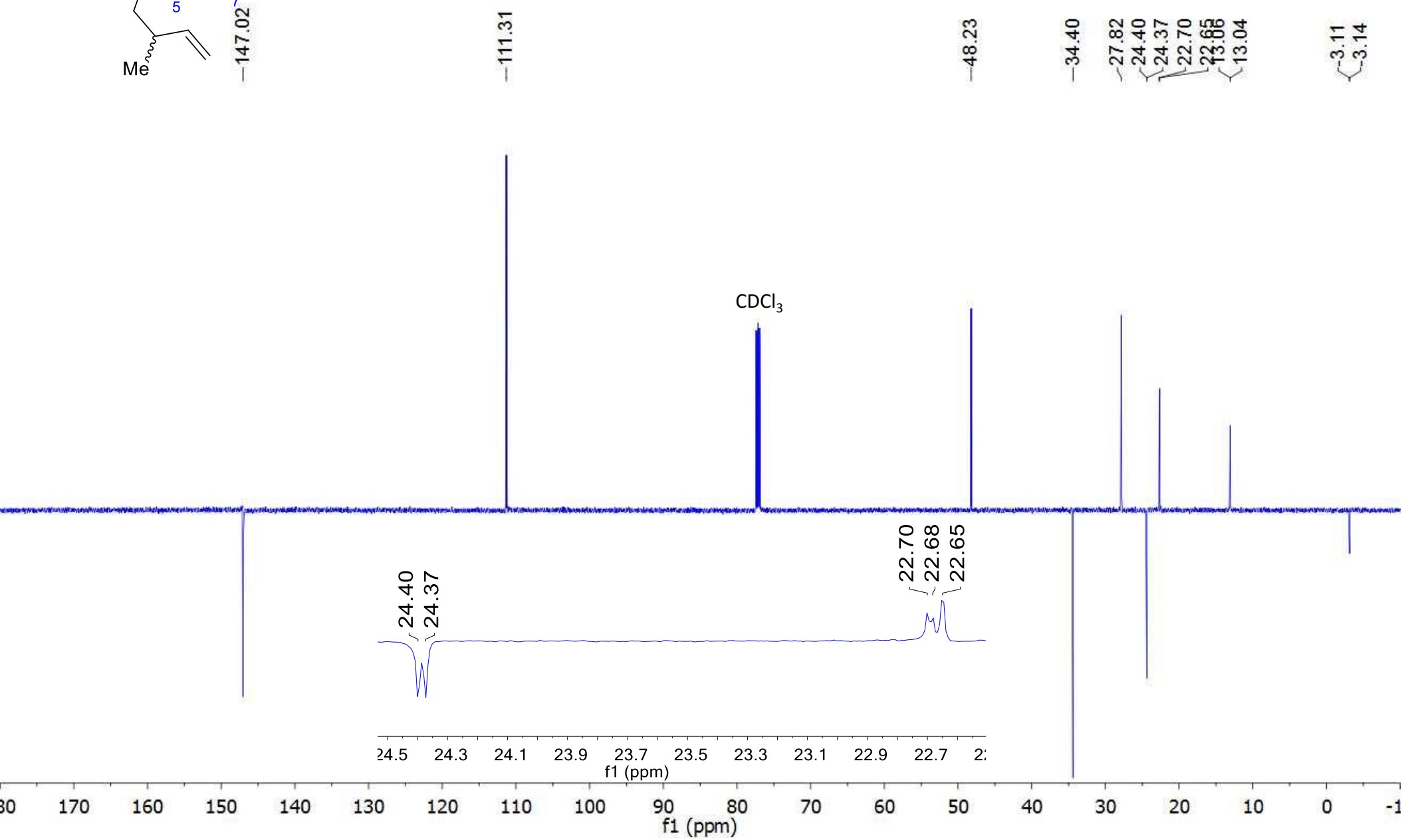
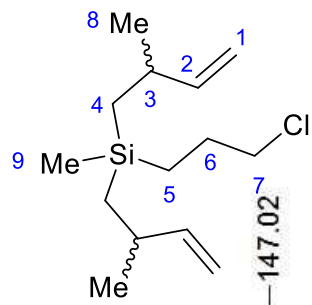
0 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -1

f1 (ppm)

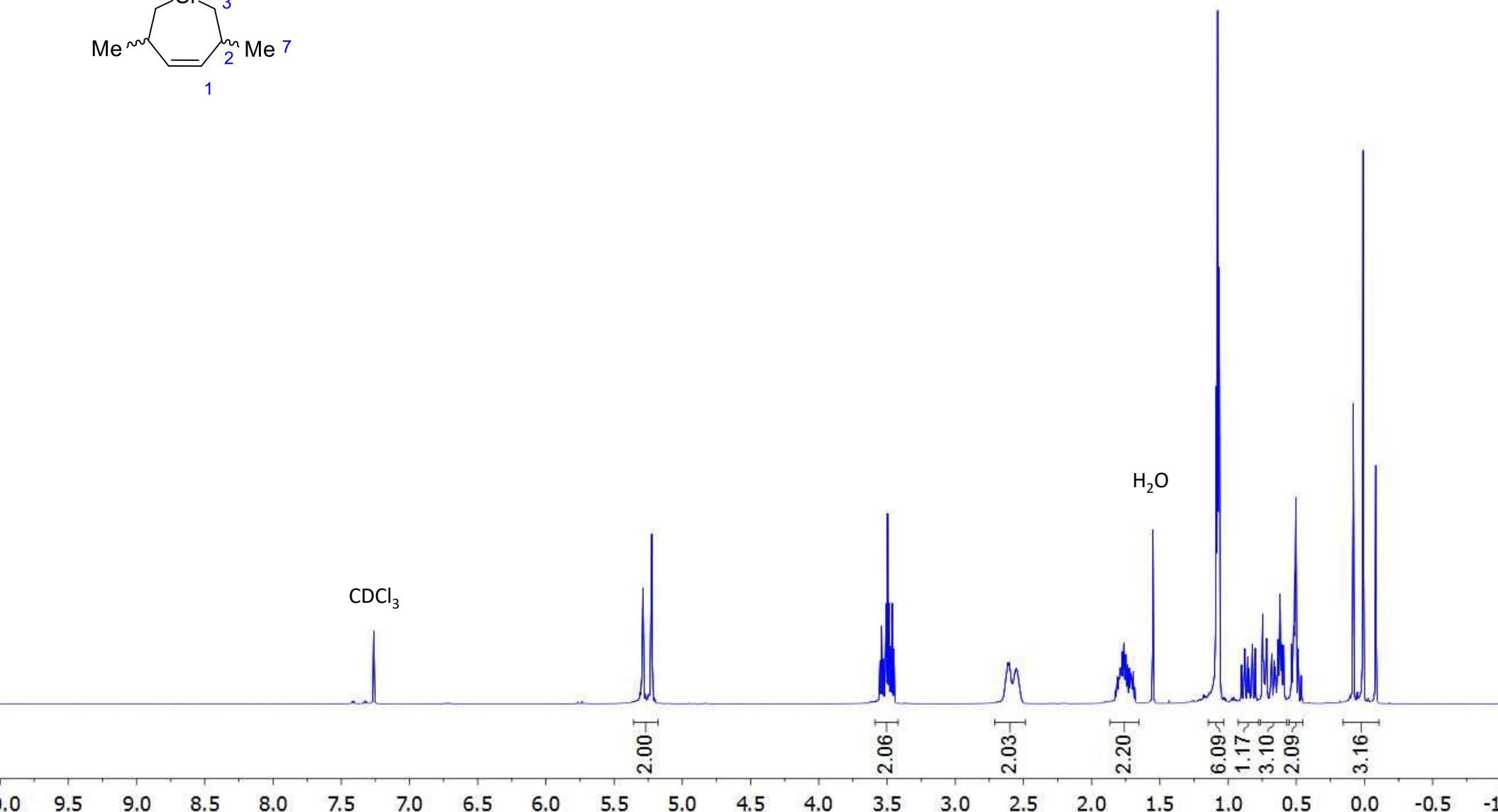
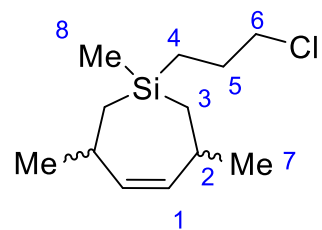
^1H NMR (600 MHz, CDCl_3)



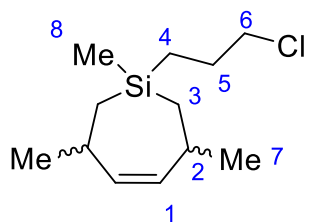
^{13}C NMR (150 MHz, CDCl_3)



^1H NMR (600 MHz, CDCl_3)



^{13}C NMR (150 MHz, CDCl_3)



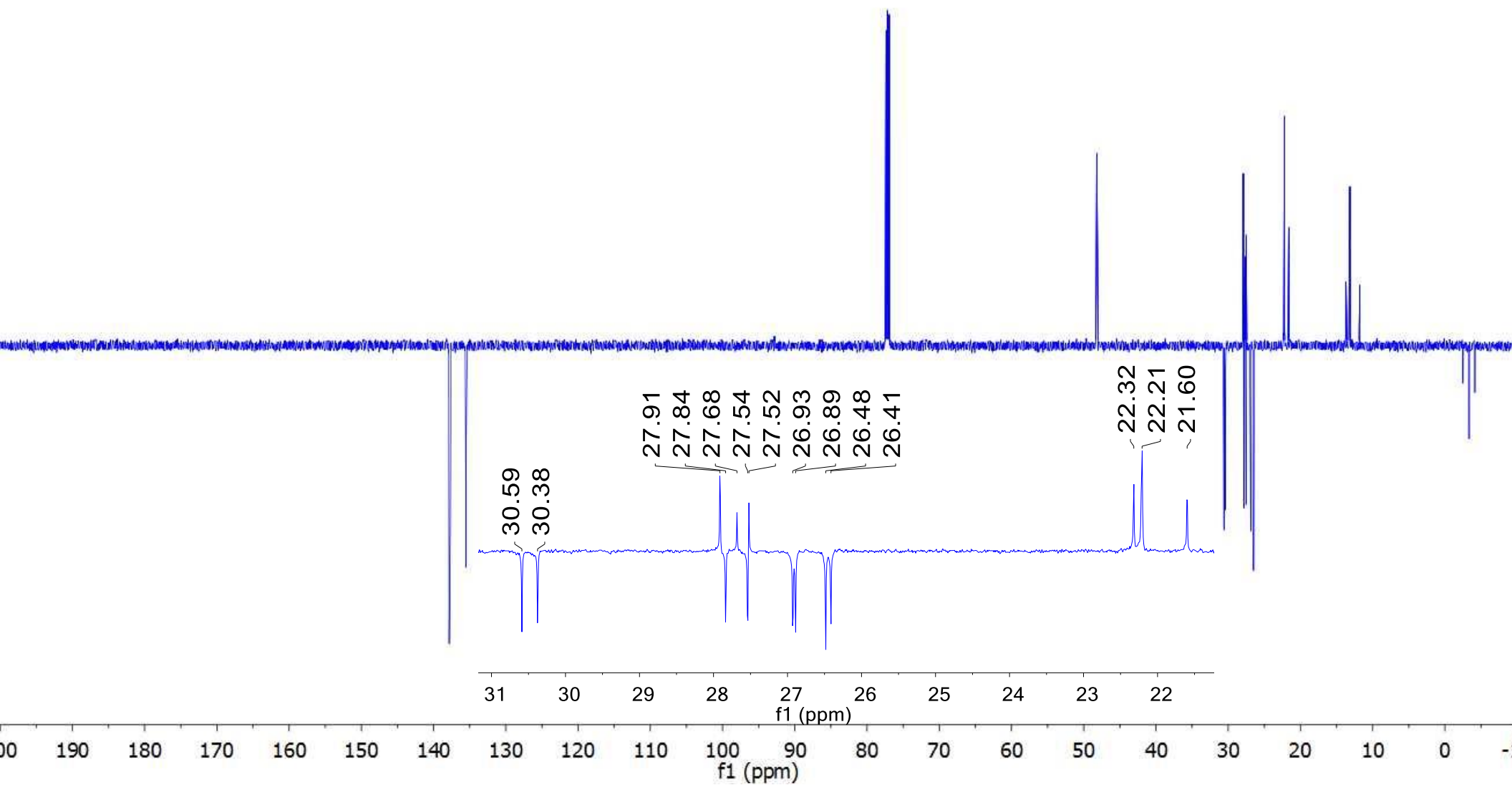
137.84
137.69
135.56
135.50

CDCl_3

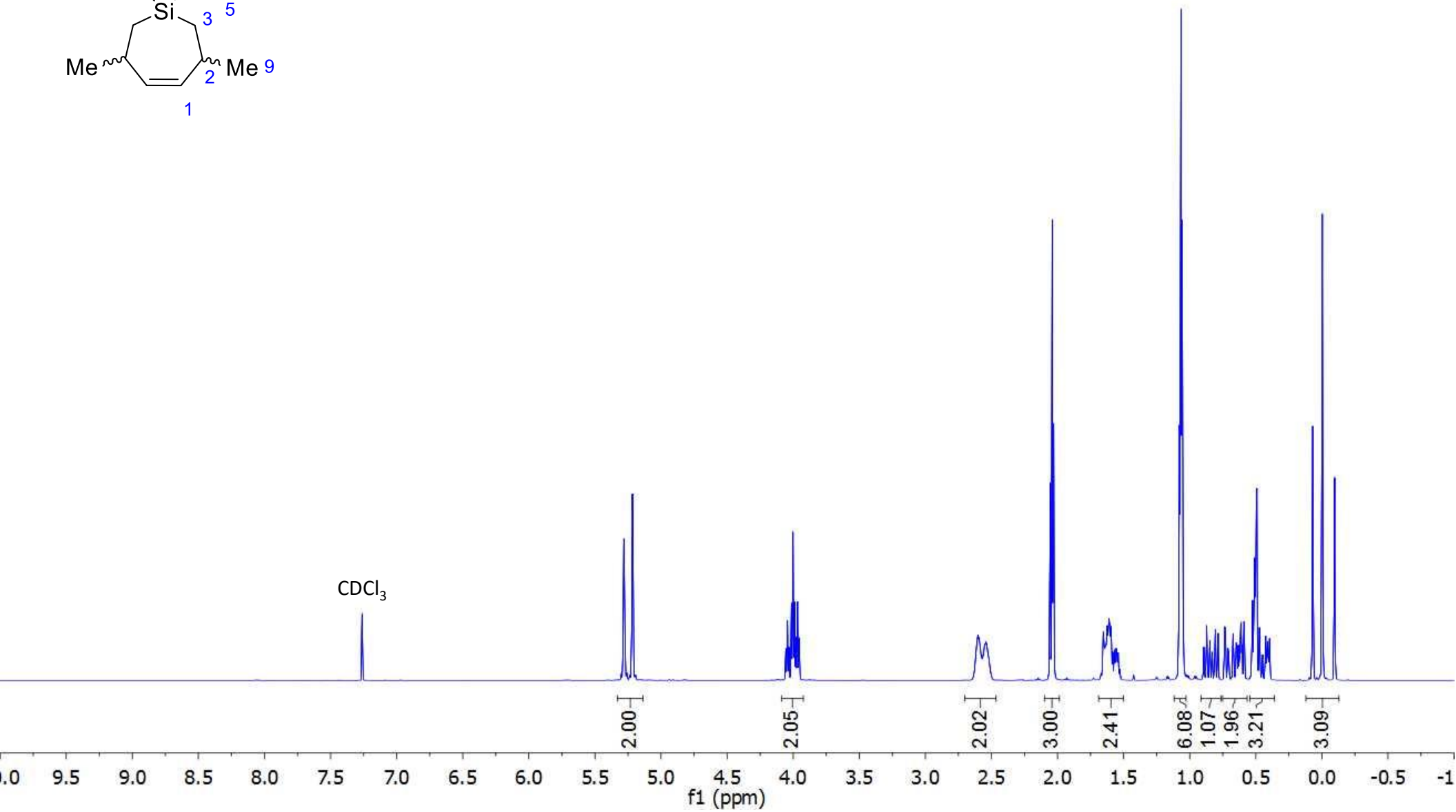
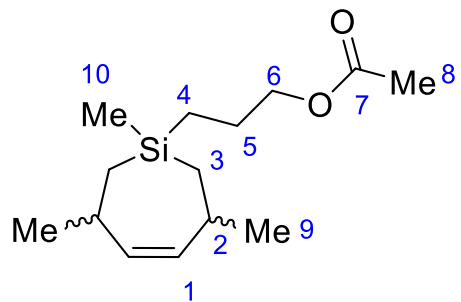
48.27
48.20
48.12

30.59
27.91
27.54
26.93
26.89
26.48
23.70
13.15
11.79

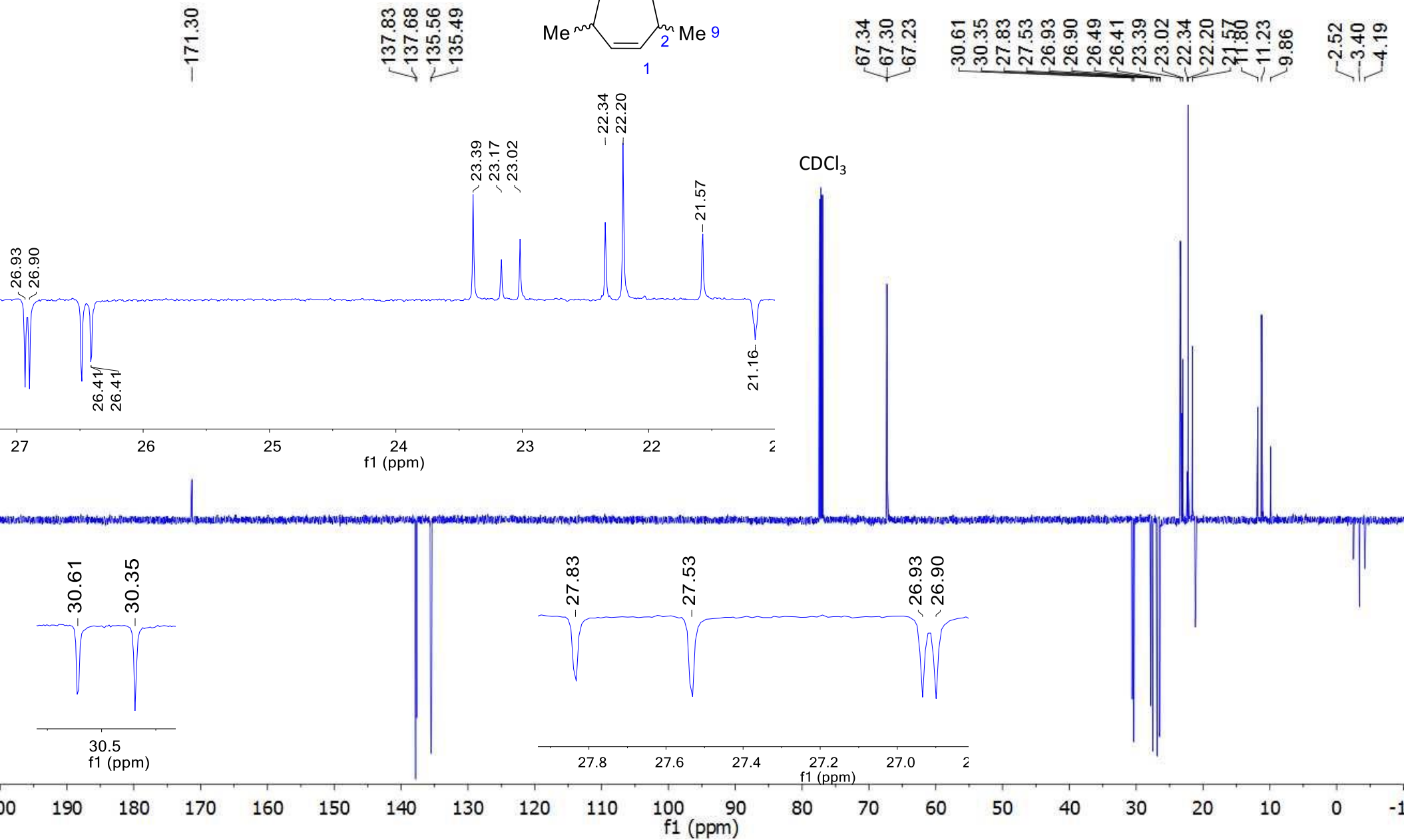
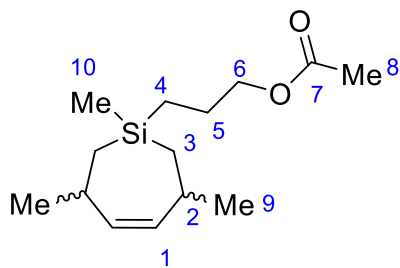
2.51
3.35
4.14



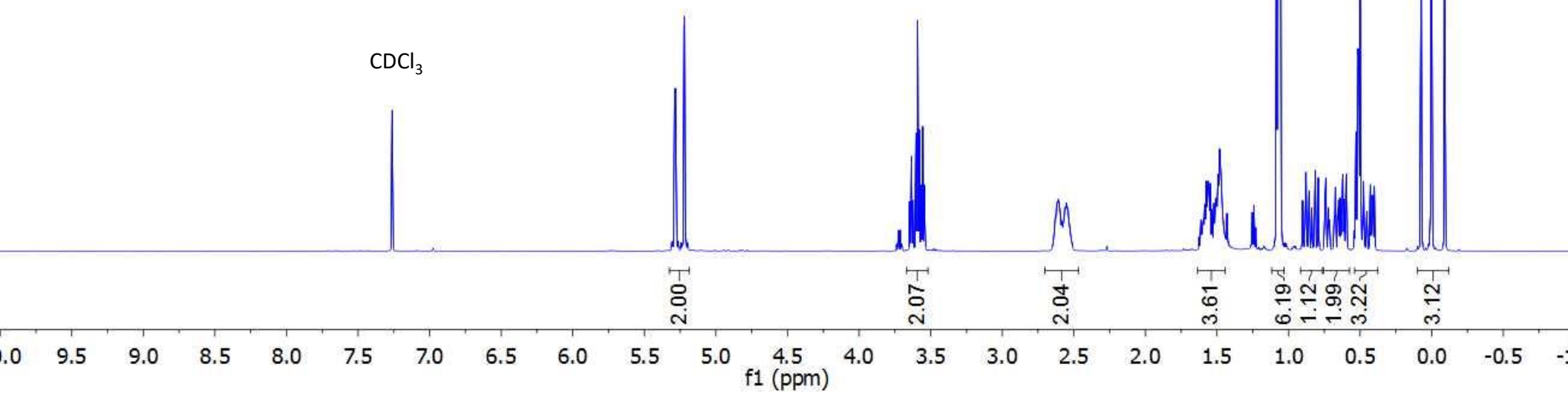
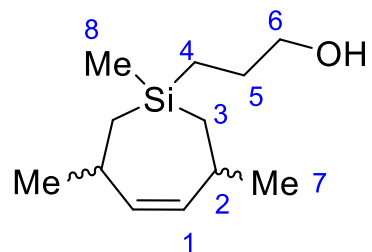
^1H NMR (600 MHz, CDCl_3)



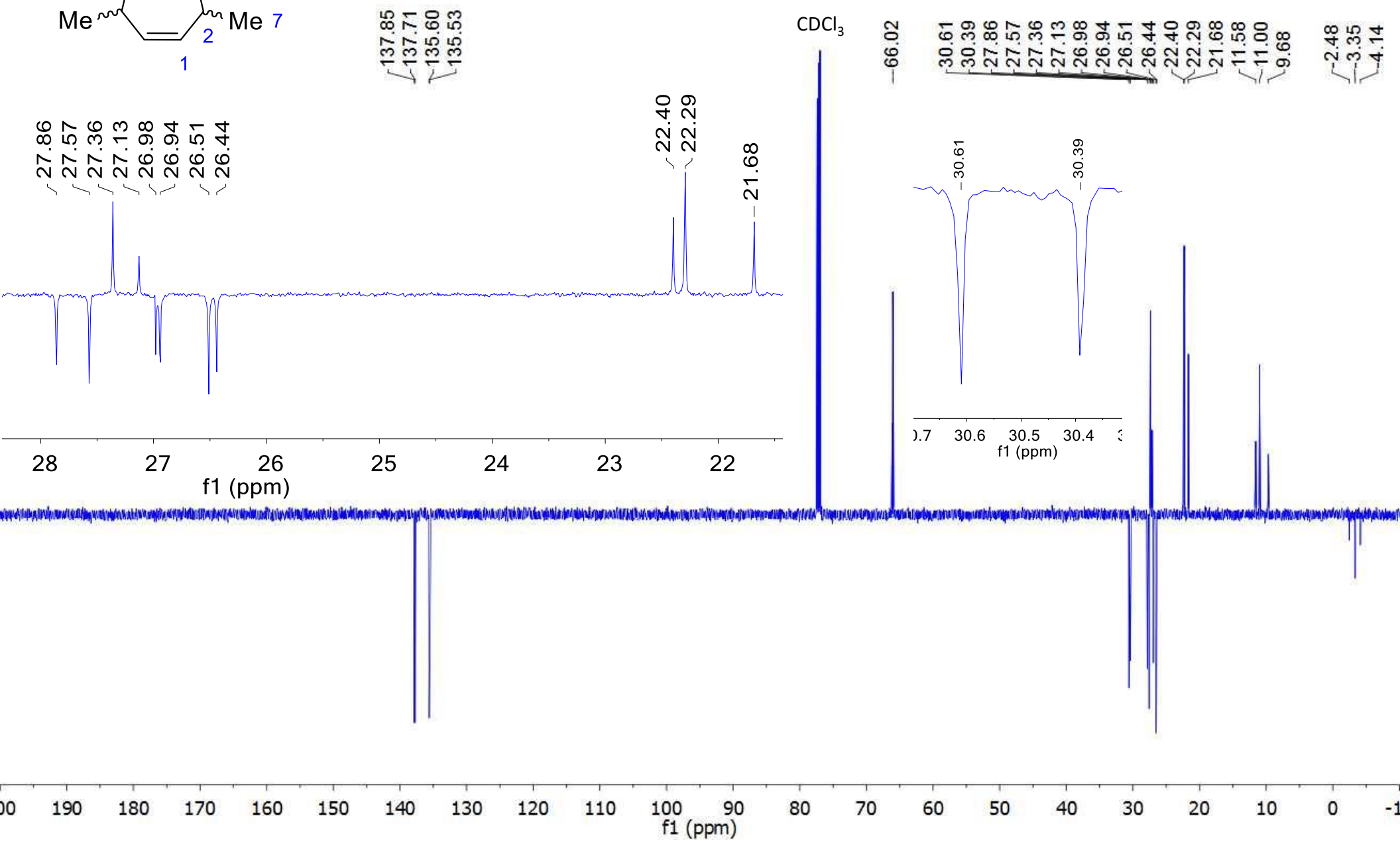
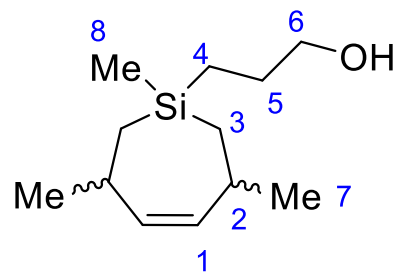
¹³C NMR (150 MHz, CDCl₃)



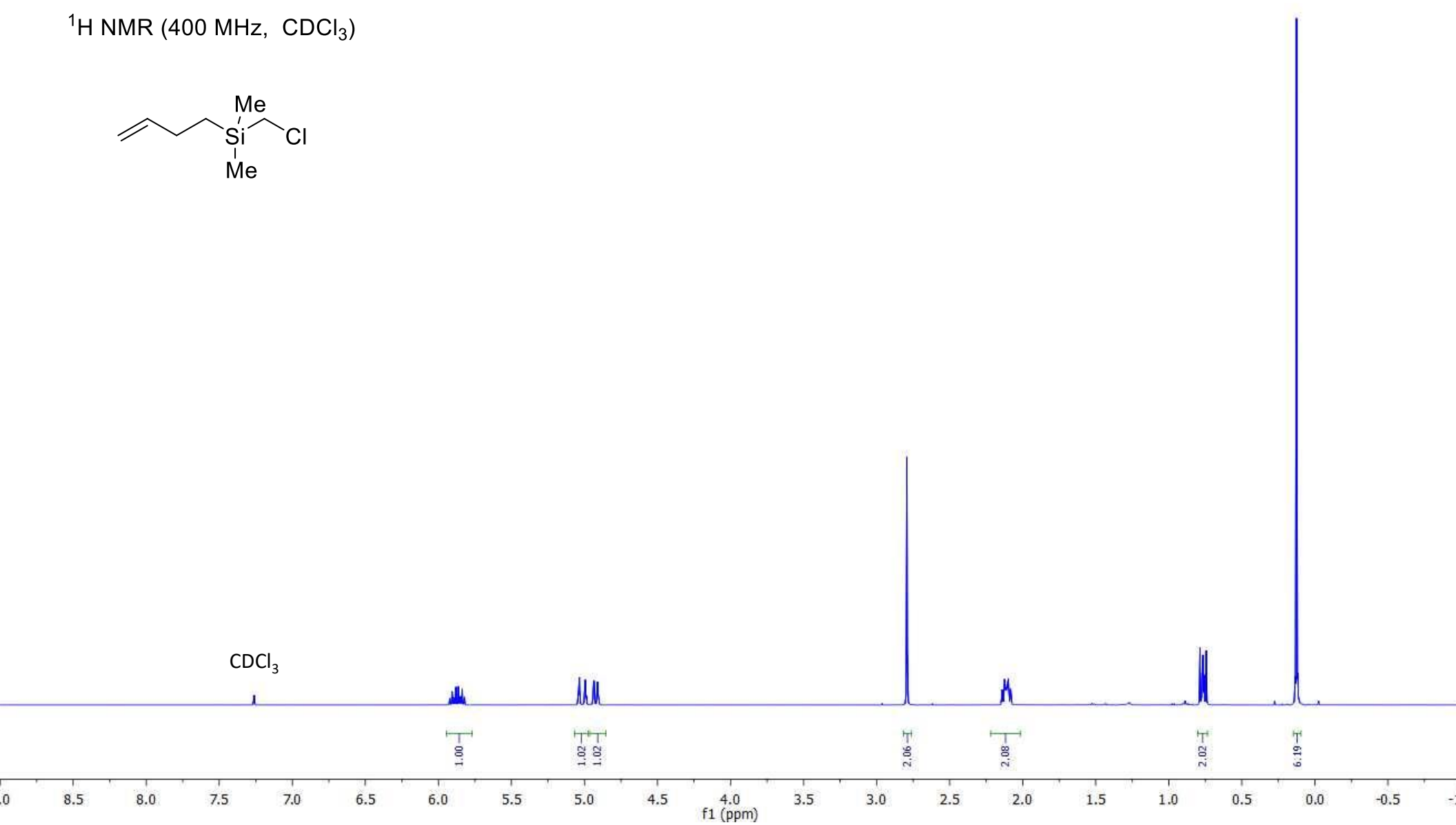
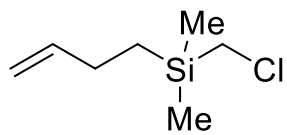
^1H NMR (600 MHz, CDCl_3)



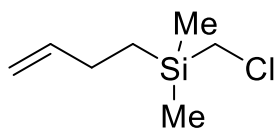
^{13}C NMR (150 MHz, CDCl_3)



^1H NMR (400 MHz, CDCl_3)



^{13}C NMR (100 MHz, CDCl_3)



-141.10

-113.39

~30.45

~27.77

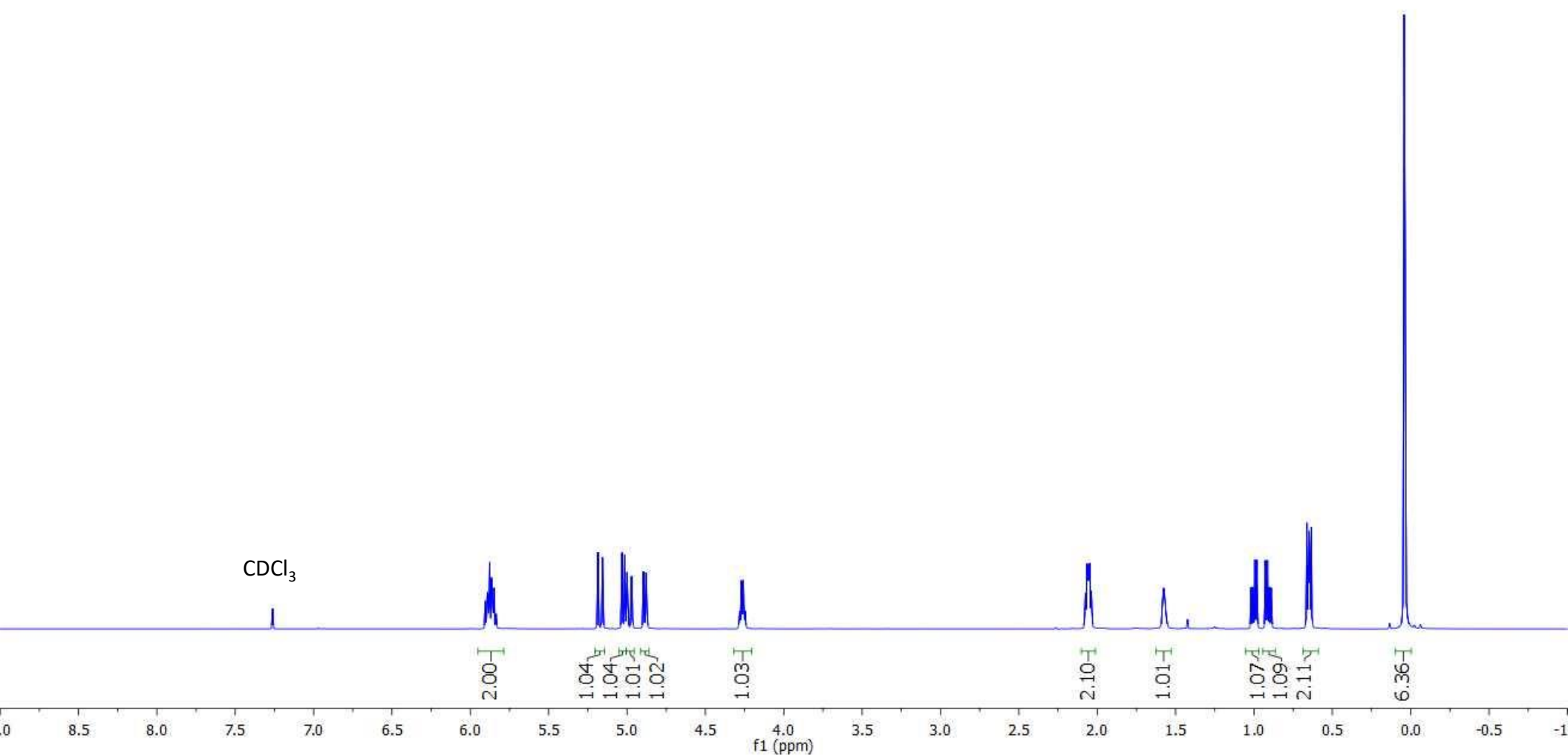
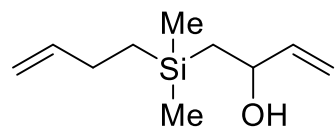
-12.93

-4.39

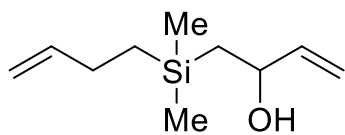
CDCl_3

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10
f1 (ppm)

^1H NMR (600 MHz, CDCl_3)



^{13}C NMR (150 MHz, CDCl_3)



143.62
141.73

113.65
112.92

-71.56

-28.01
-25.14

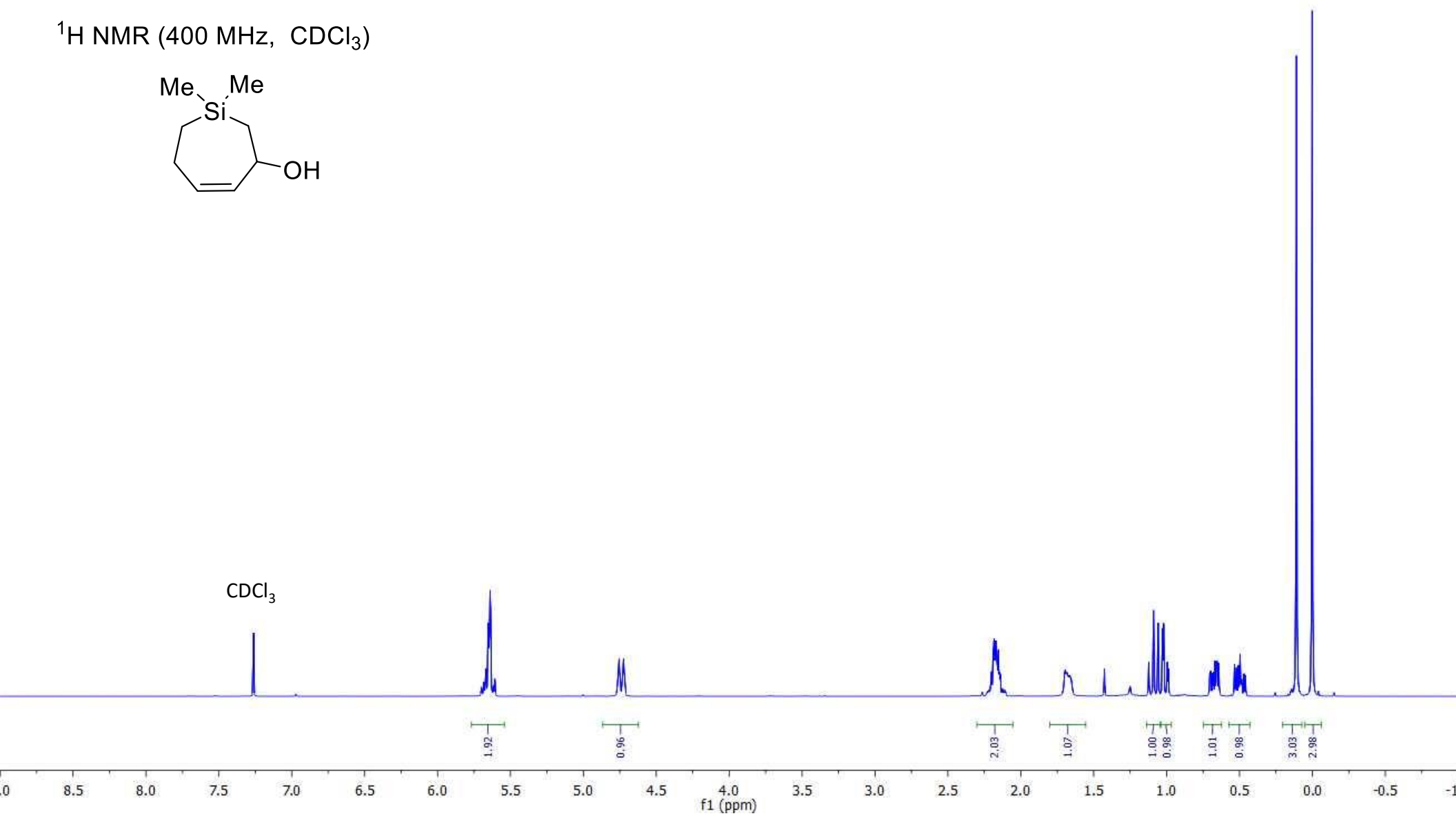
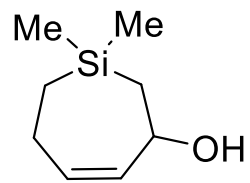
-15.13

-2.34
-2.36

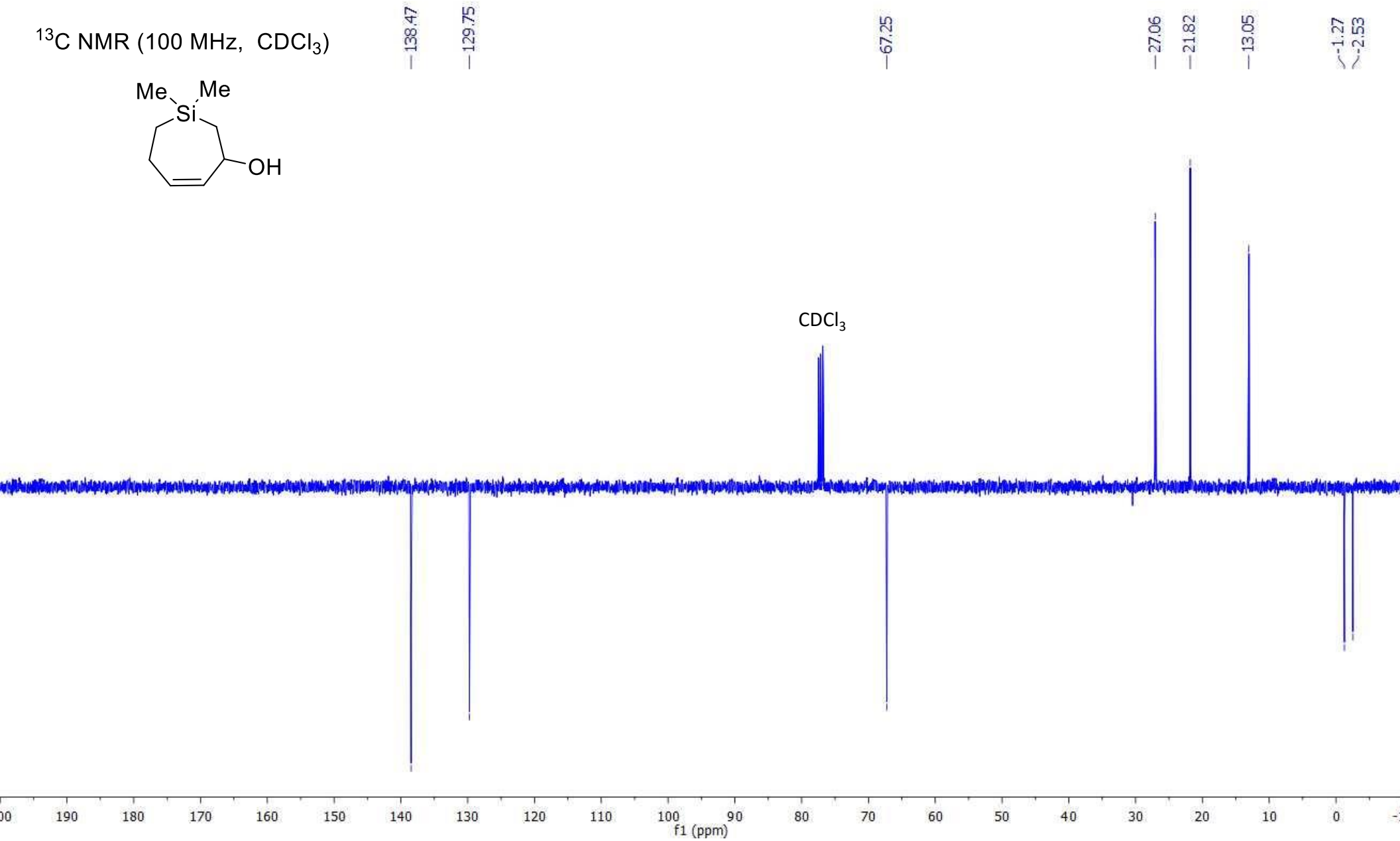
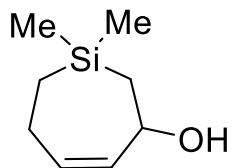
CDCl_3

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
f1 (ppm)

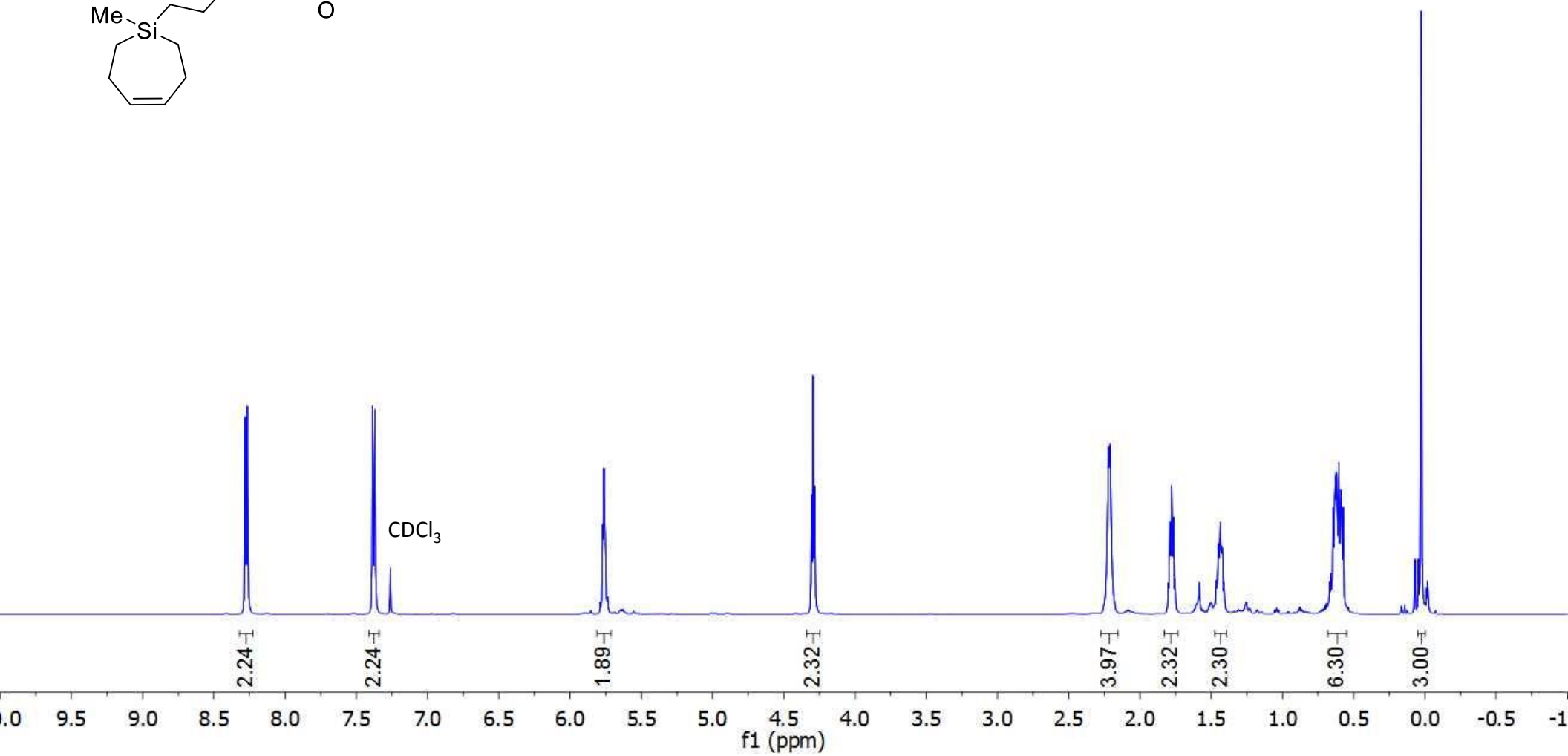
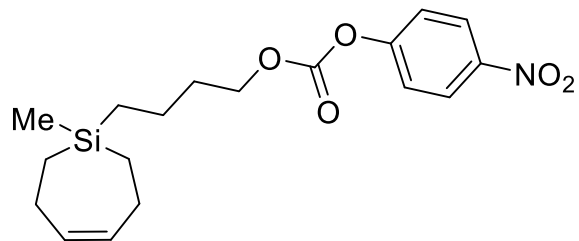
^1H NMR (400 MHz, CDCl_3)

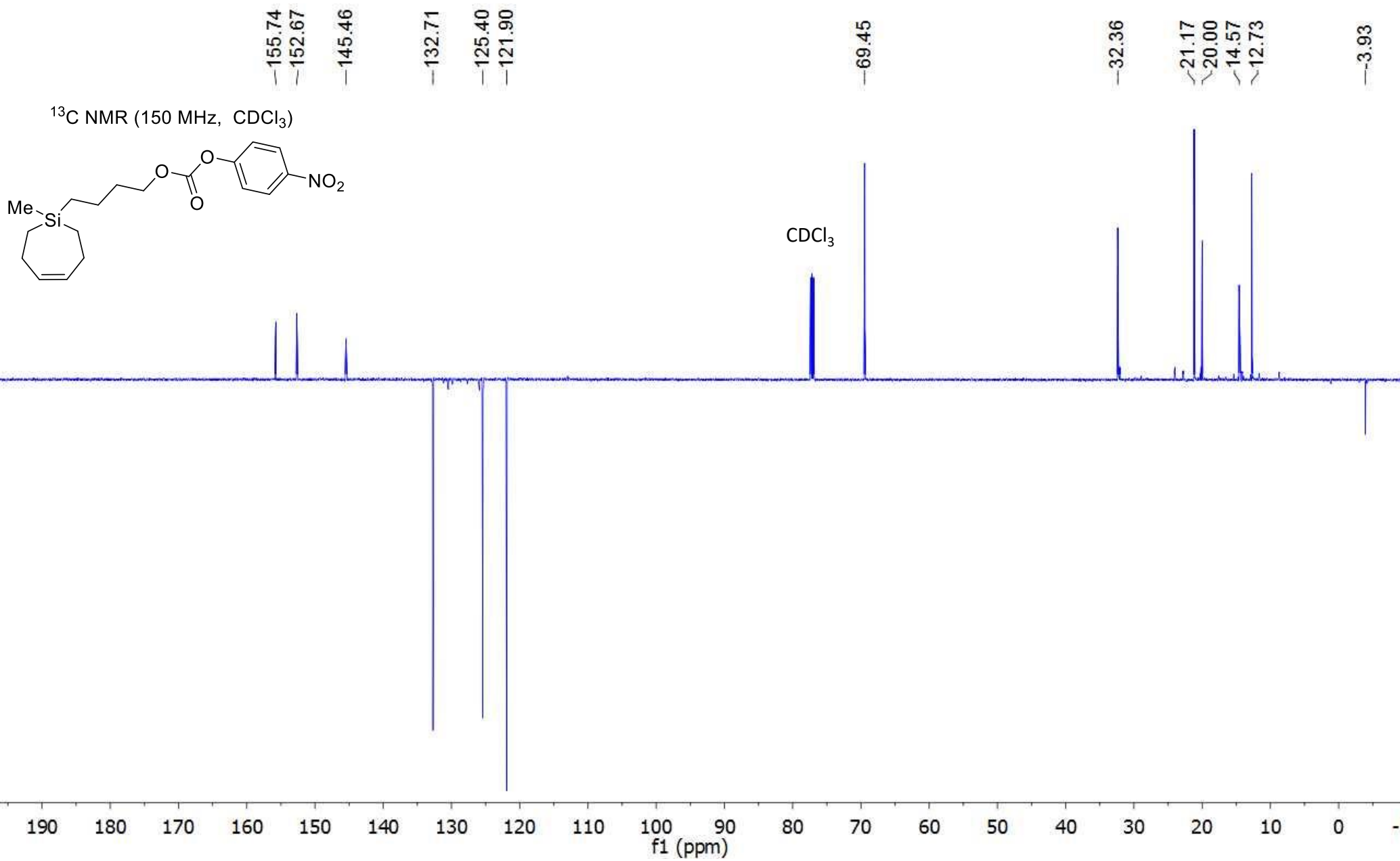


^{13}C NMR (100 MHz, CDCl_3)

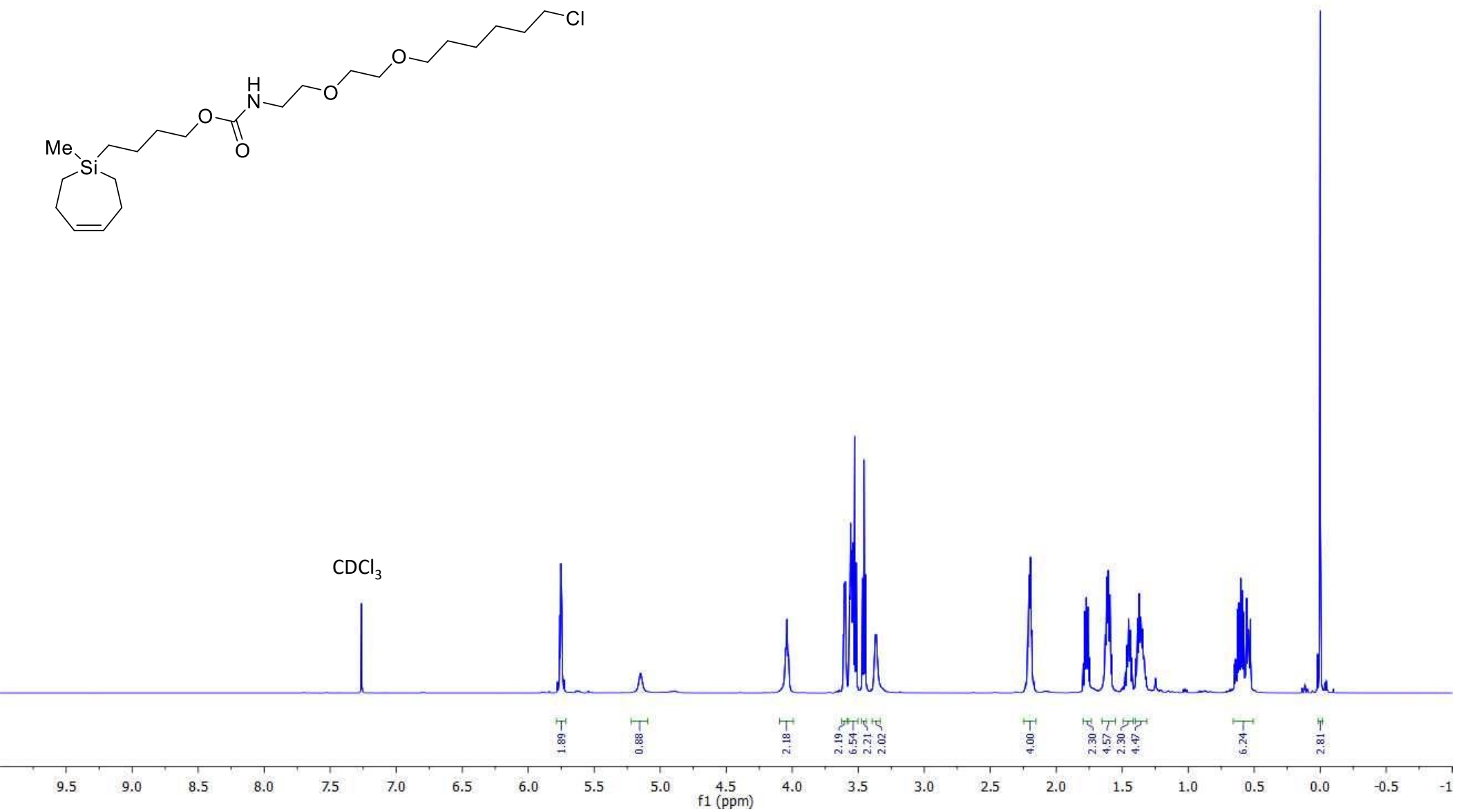
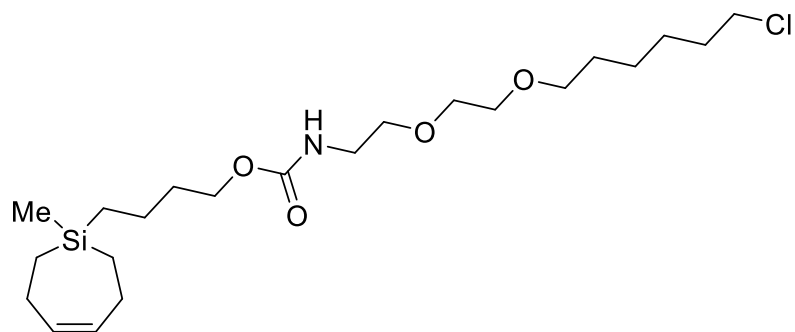


^1H NMR (600 MHz, CDCl_3)

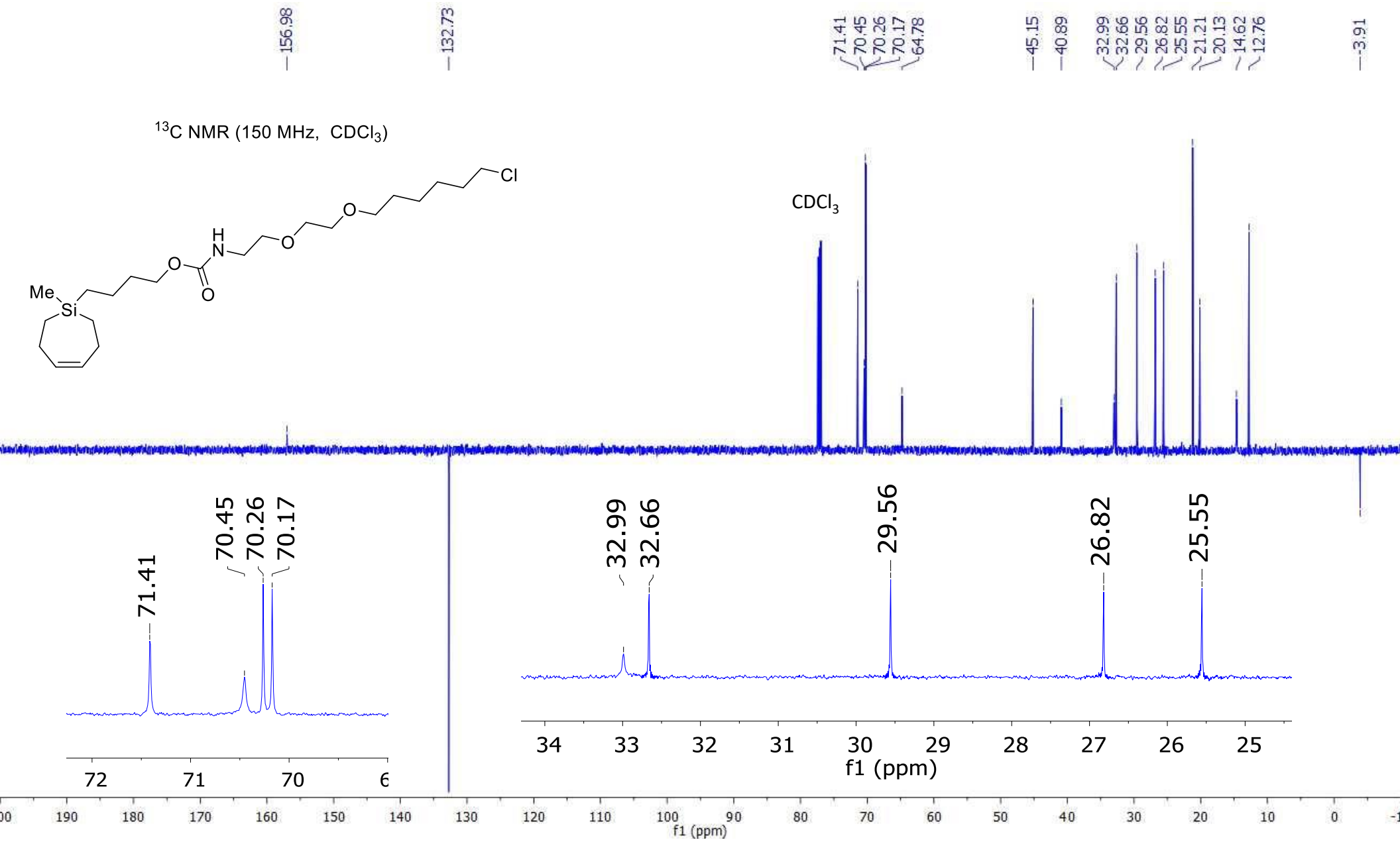
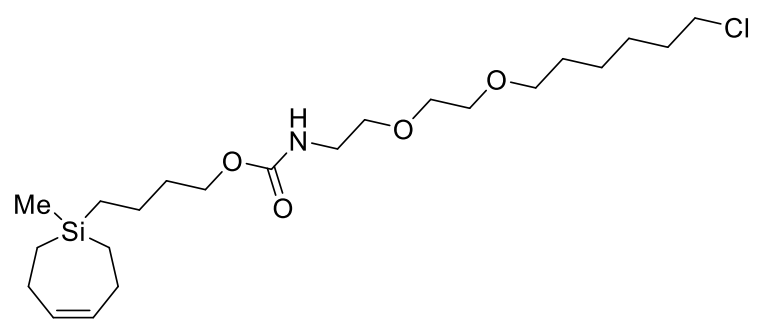




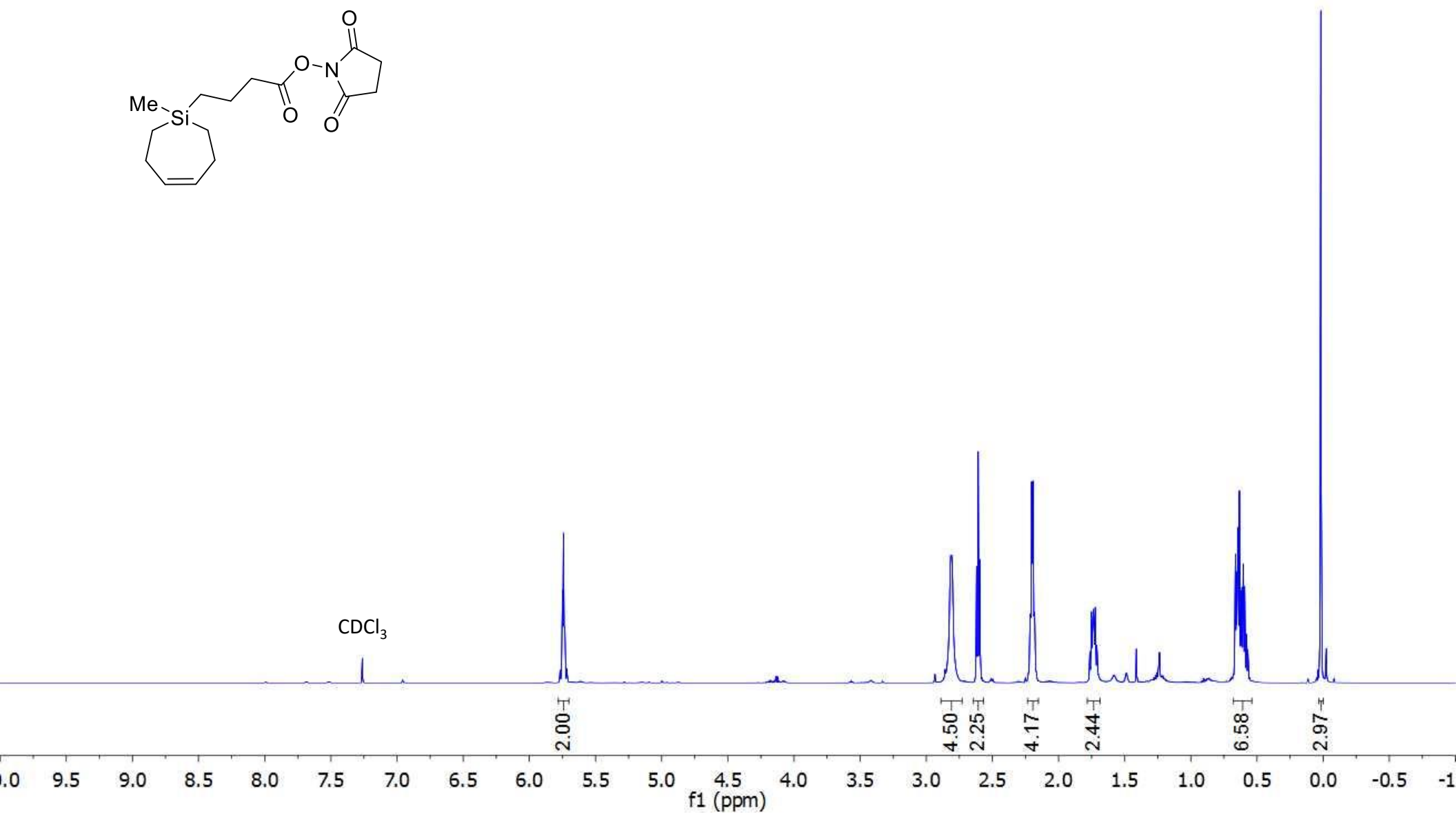
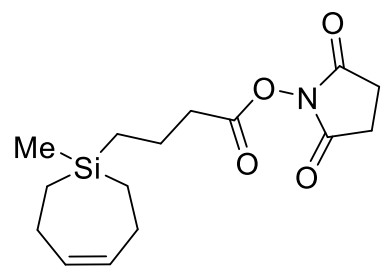
^1H NMR (600 MHz, CDCl_3)



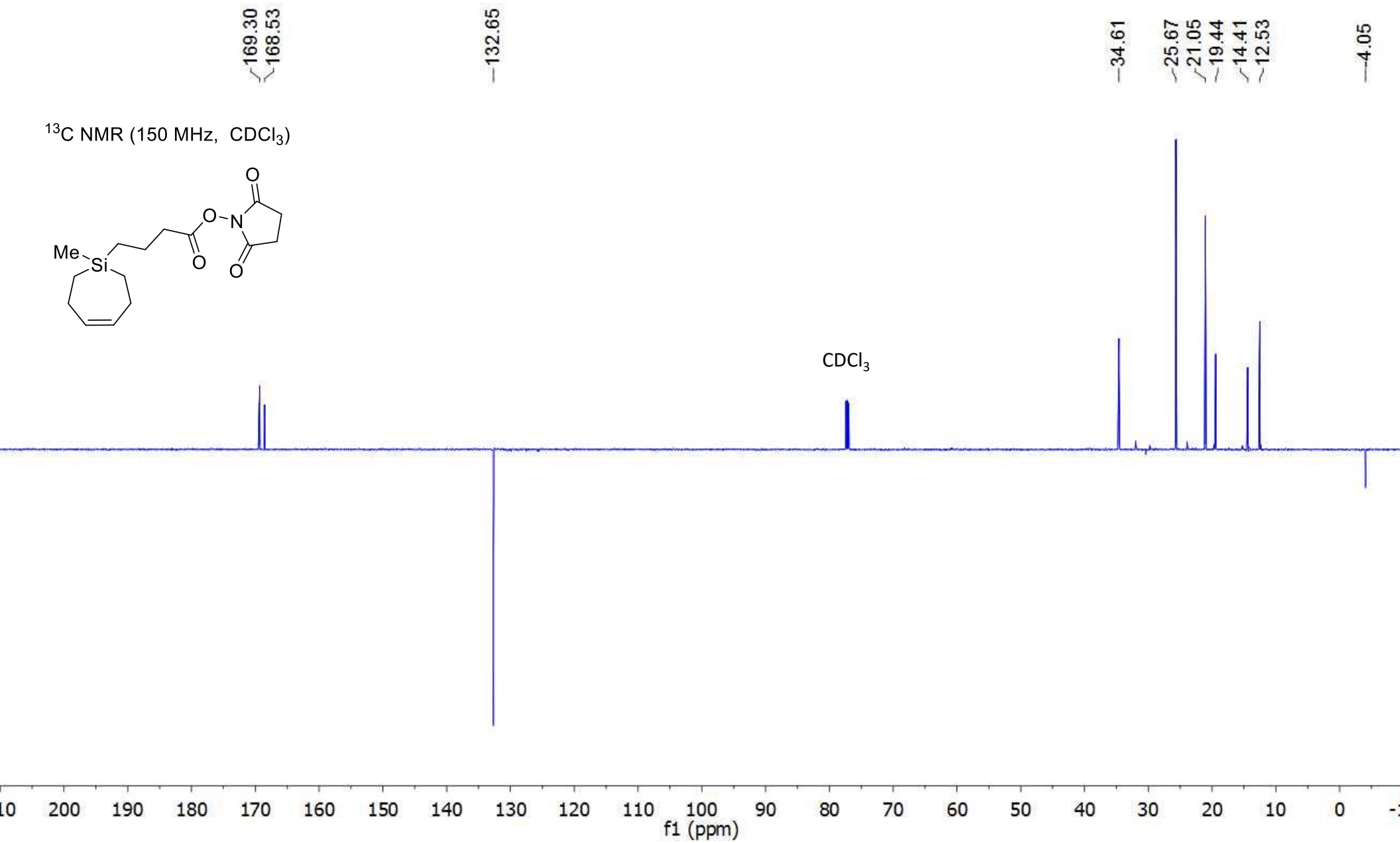
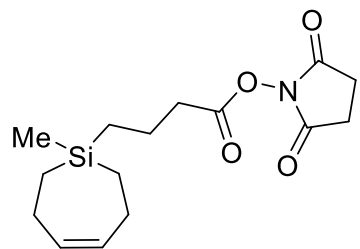
¹³C NMR (150 MHz, CDCl₃)



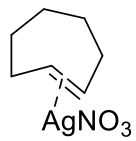
^1H NMR (600 MHz, CDCl_3)



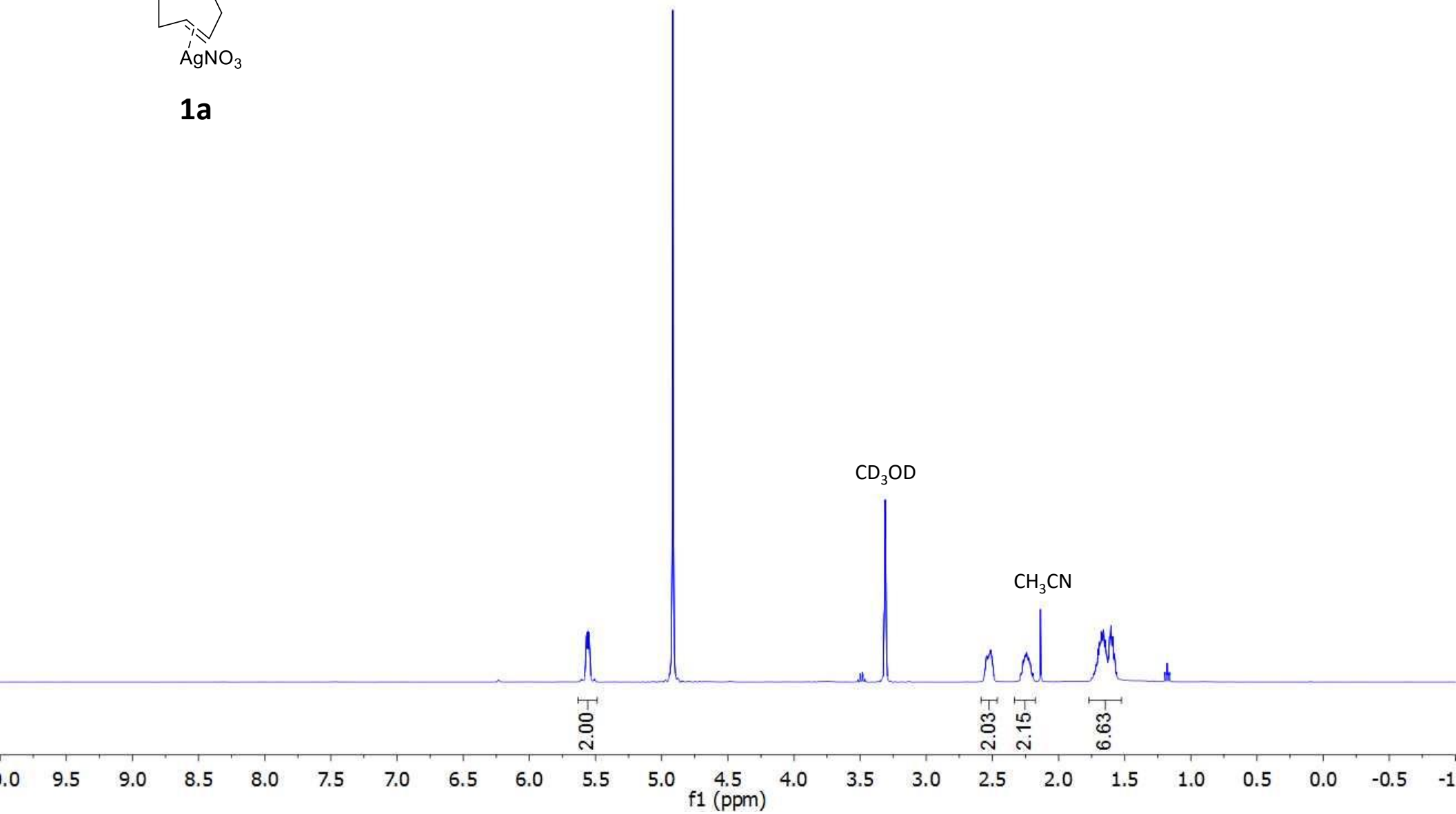
^{13}C NMR (150 MHz, CDCl_3)



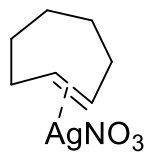
^1H NMR (400 MHz, CD_3OD)



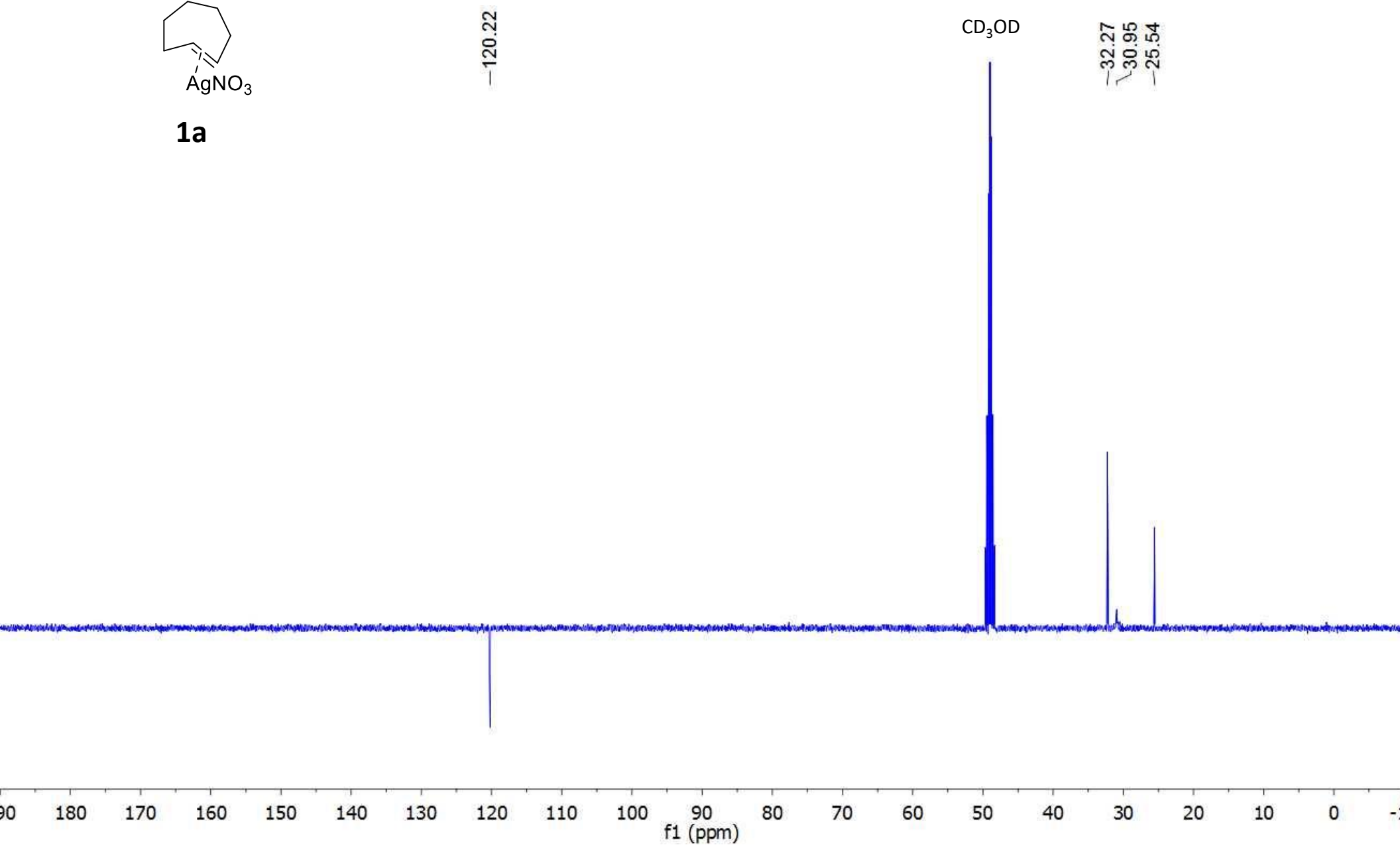
1a



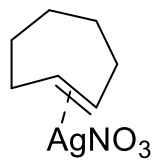
^{13}C NMR (100 MHz, CD_3OD)



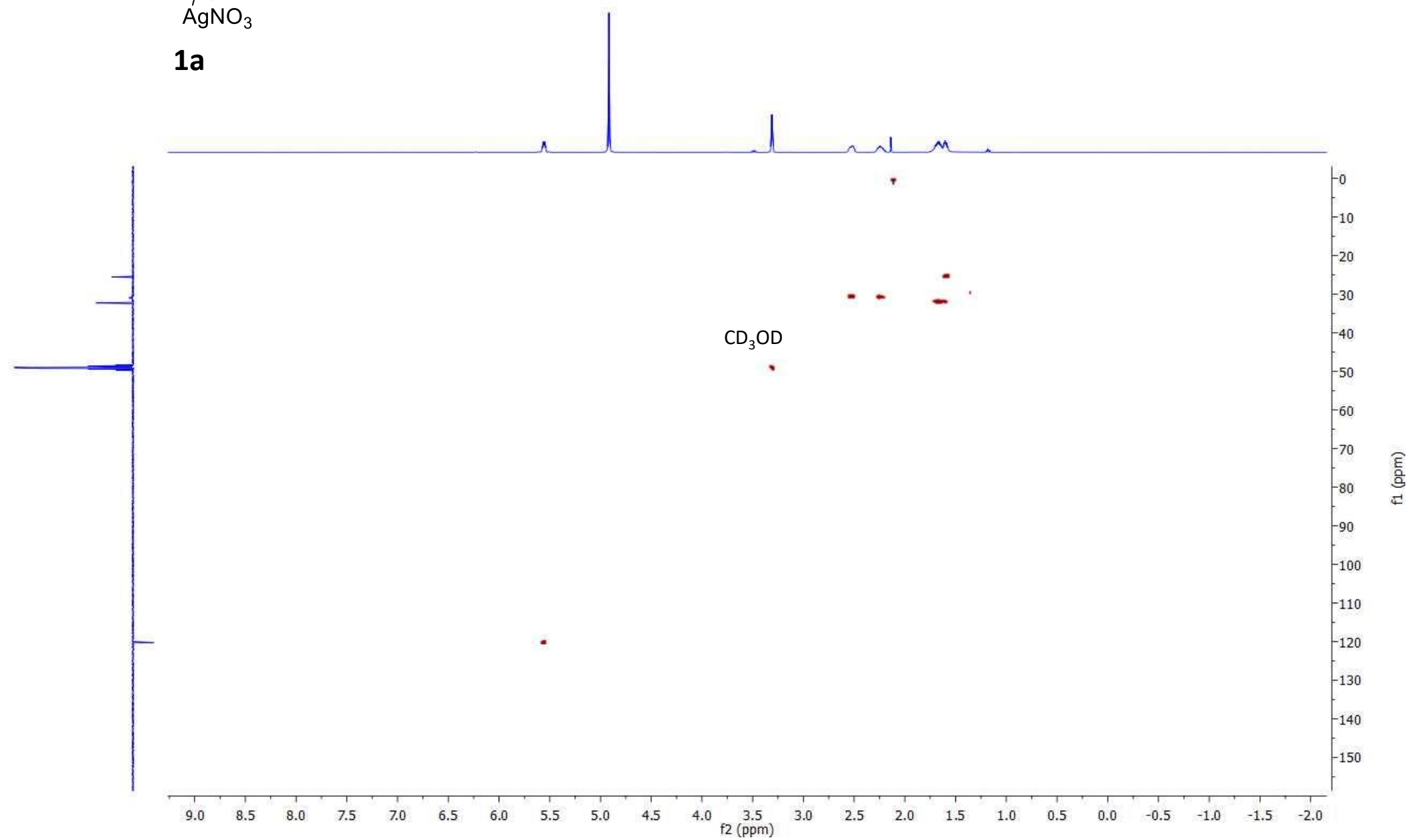
1a



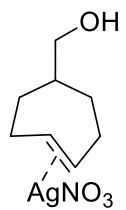
HMQC (400 MHz, CD₃OD)



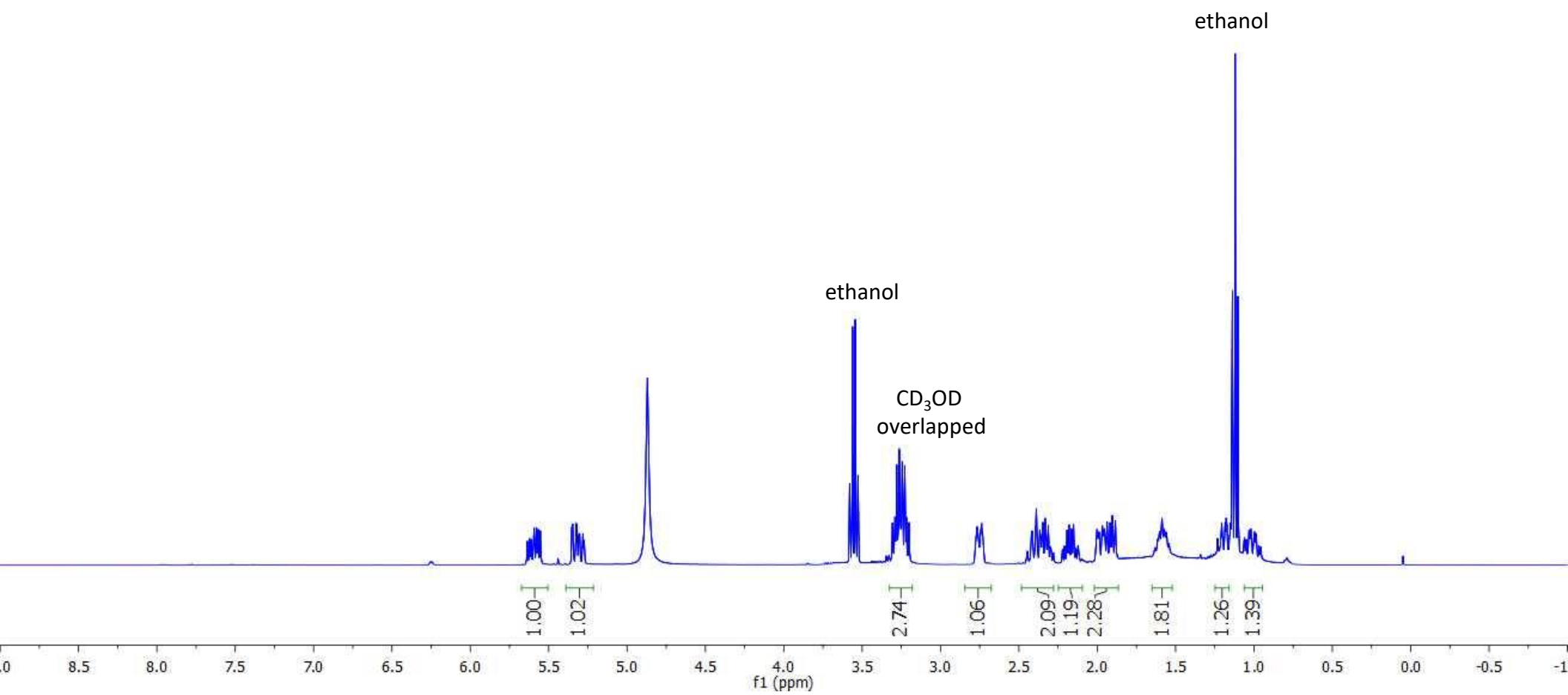
1a



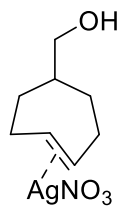
^1H NMR (400 MHz, CD_3OD)



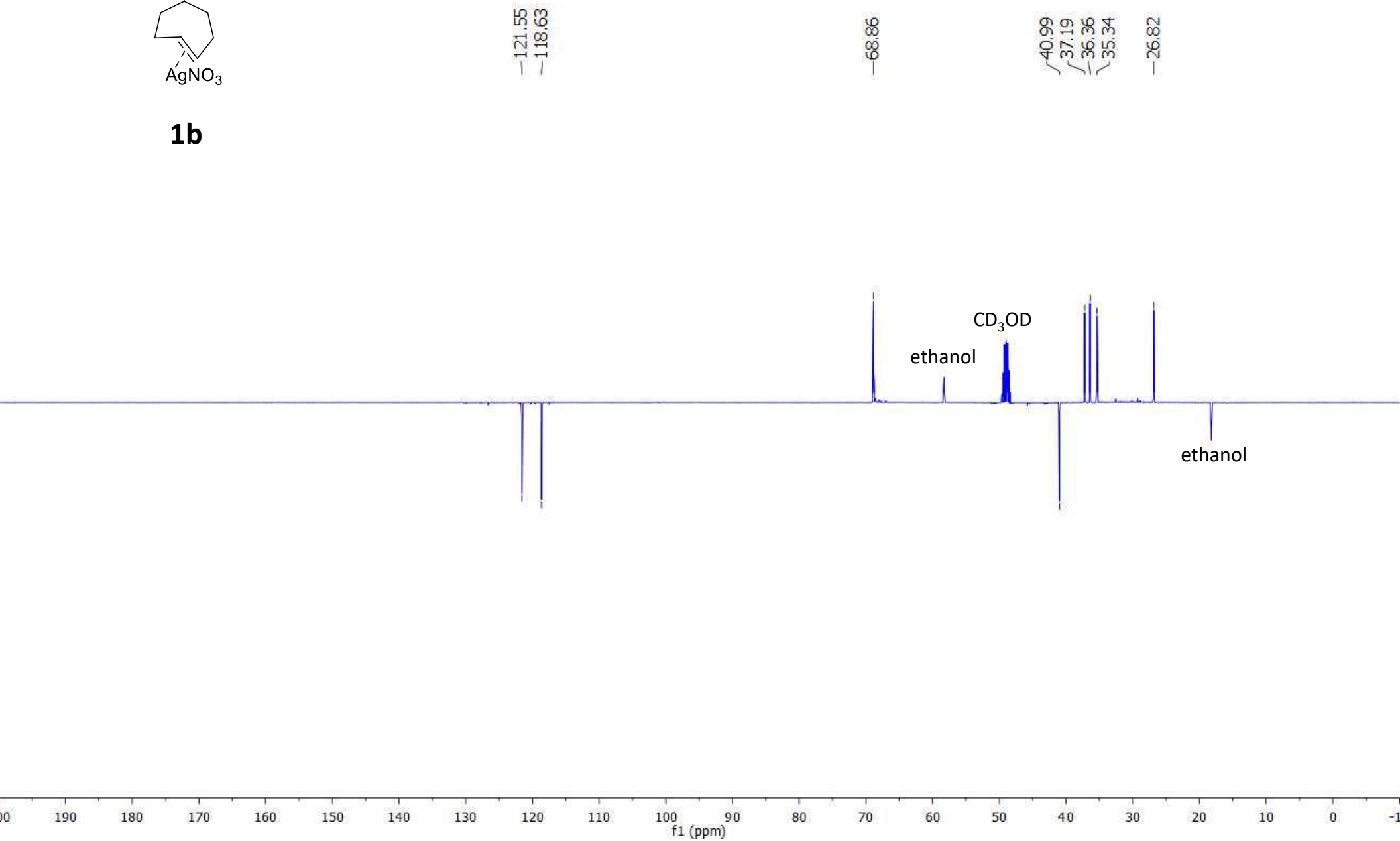
1b



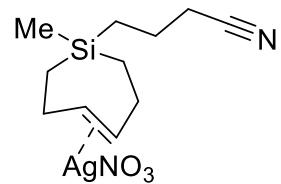
^{13}C NMR (100 MHz, CD_3OD)



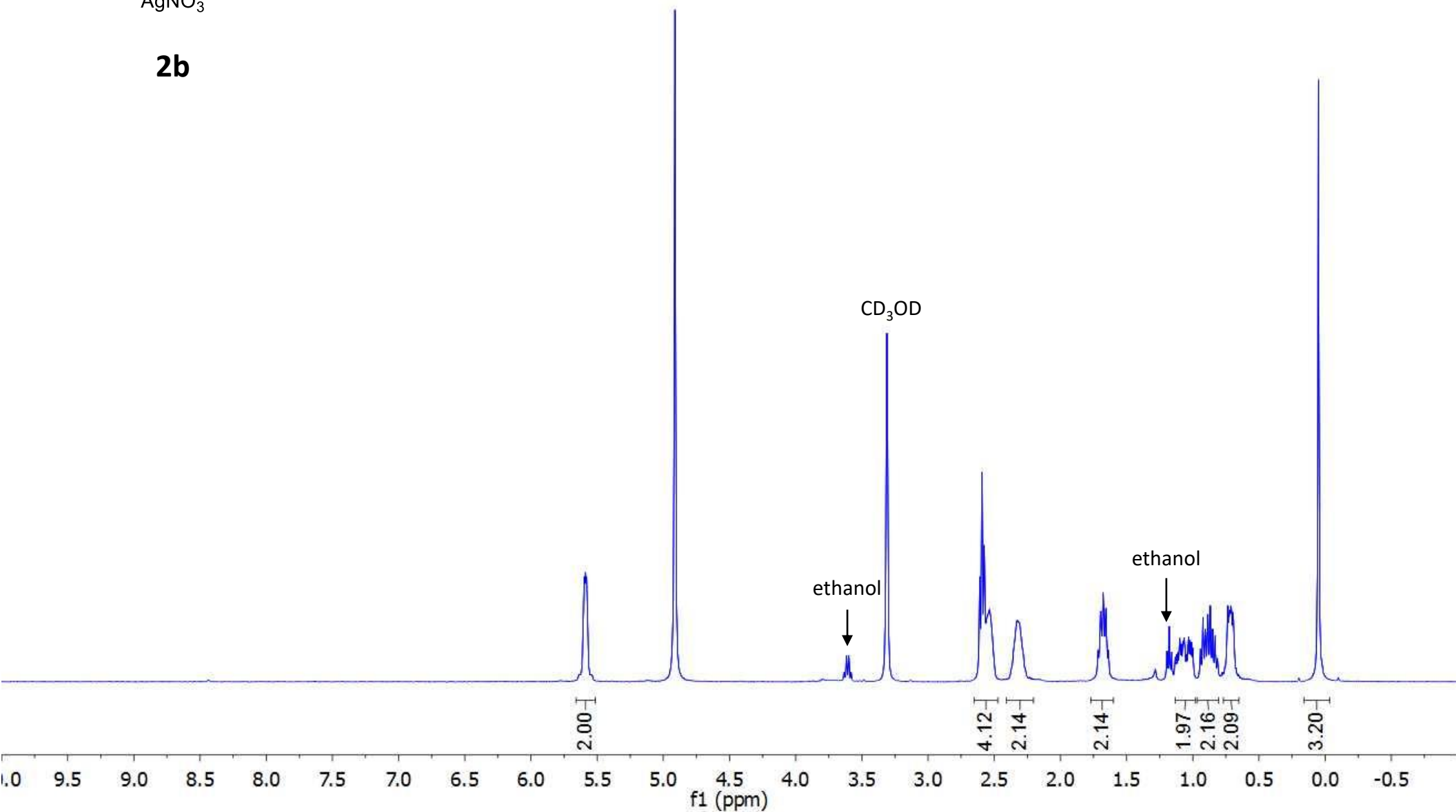
1b



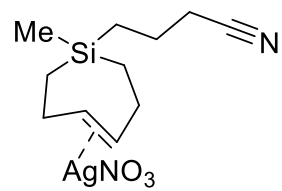
^1H NMR (400 MHz, CD_3OD)



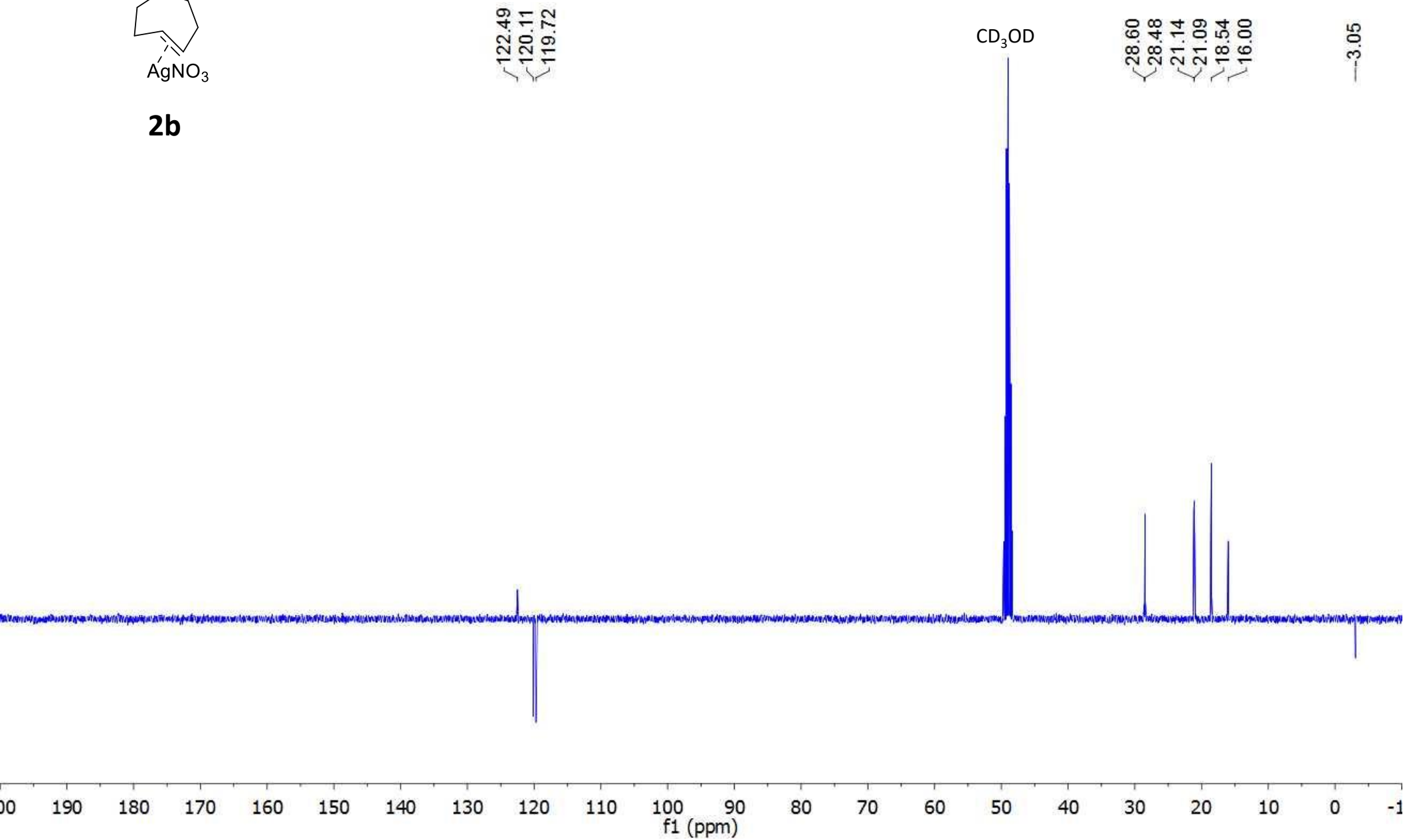
2b



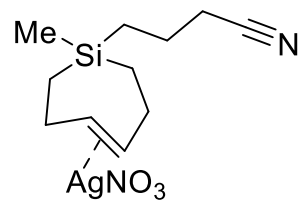
^{13}C NMR (100 MHz, CD_3OD)



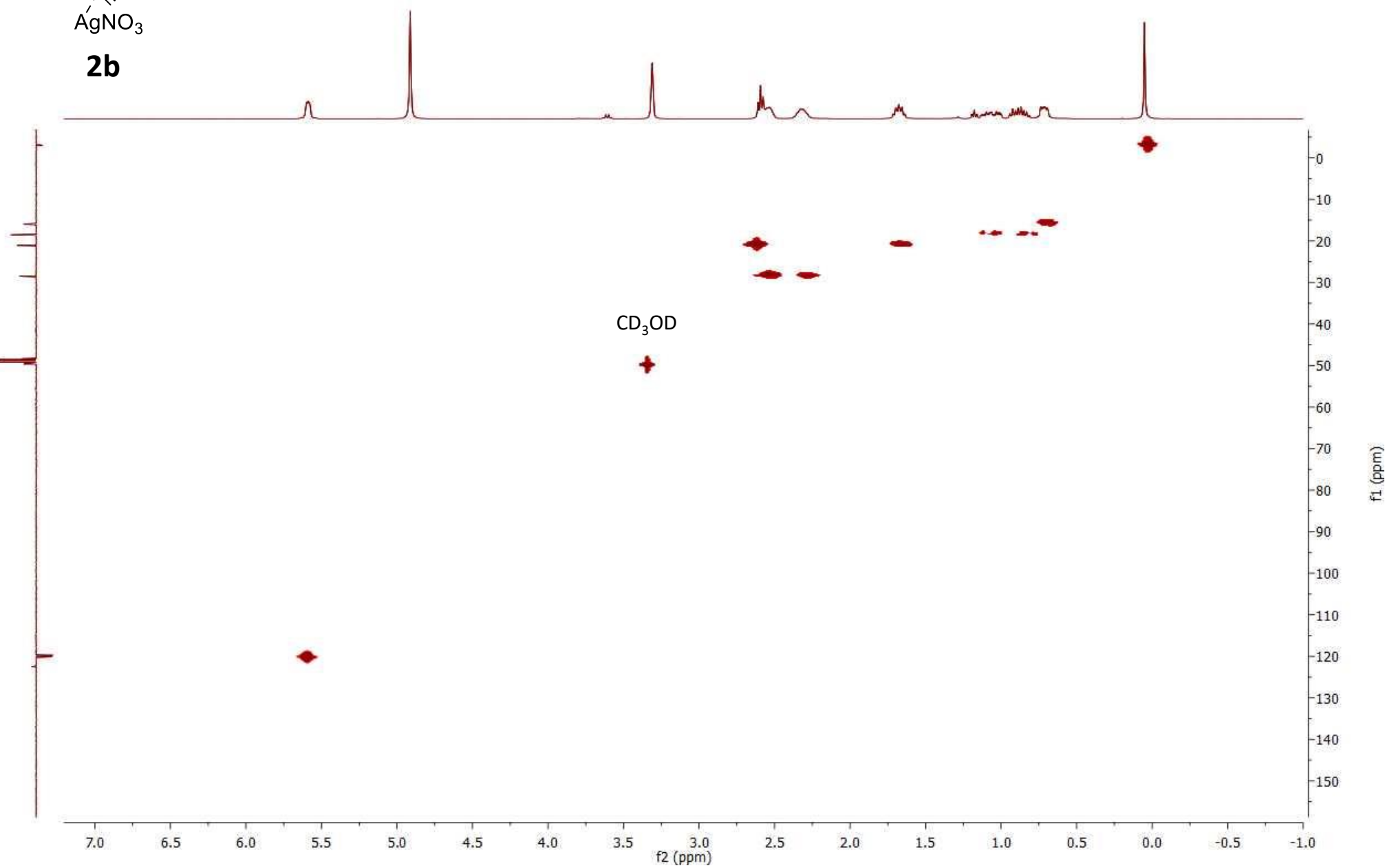
2b



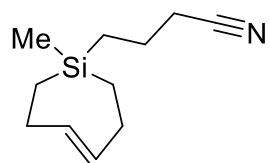
HMQC (400 MHz, CD₃OD)



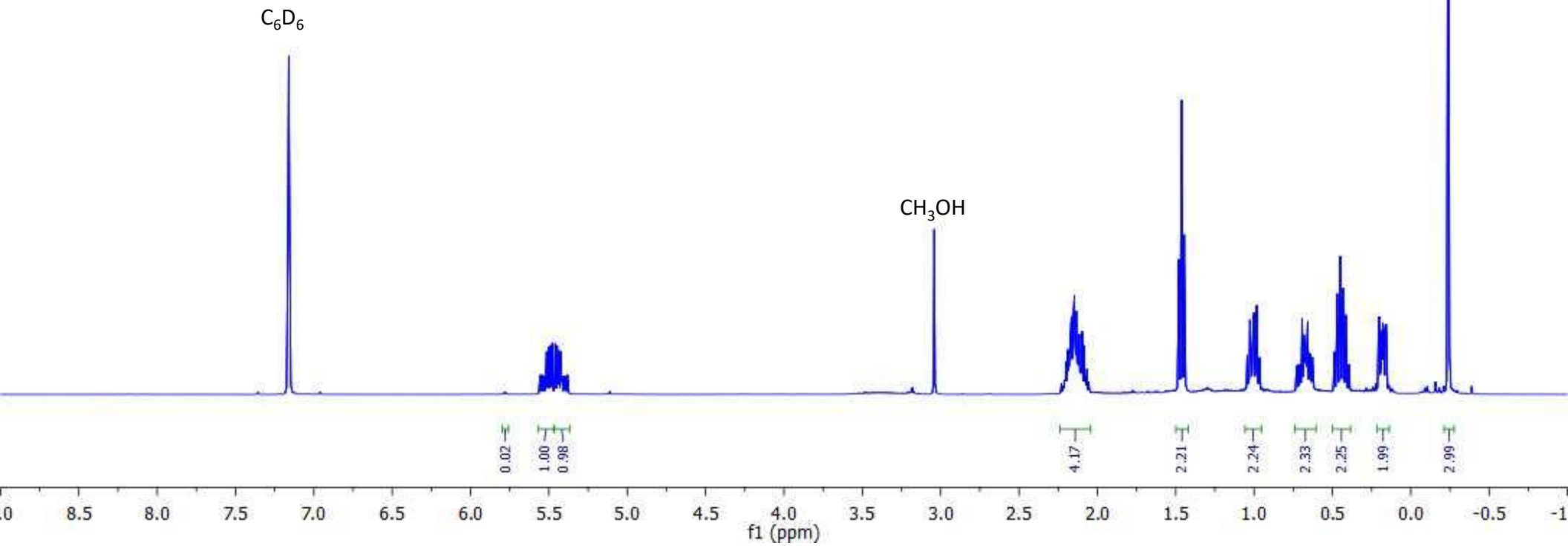
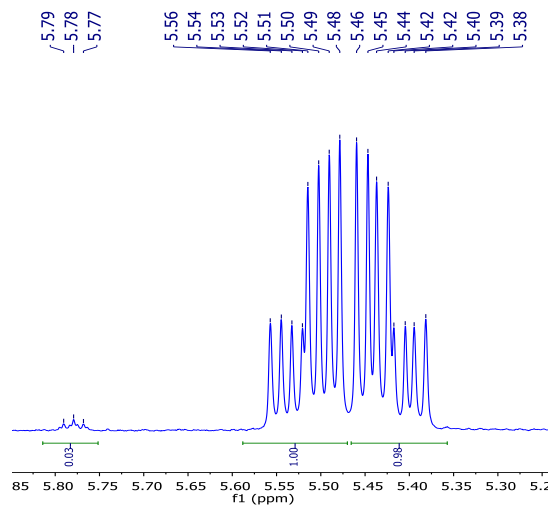
2b



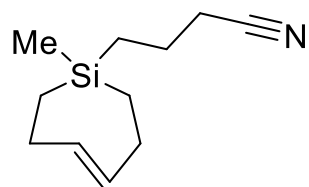
^1H NMR (400 MHz, C_6D_6)



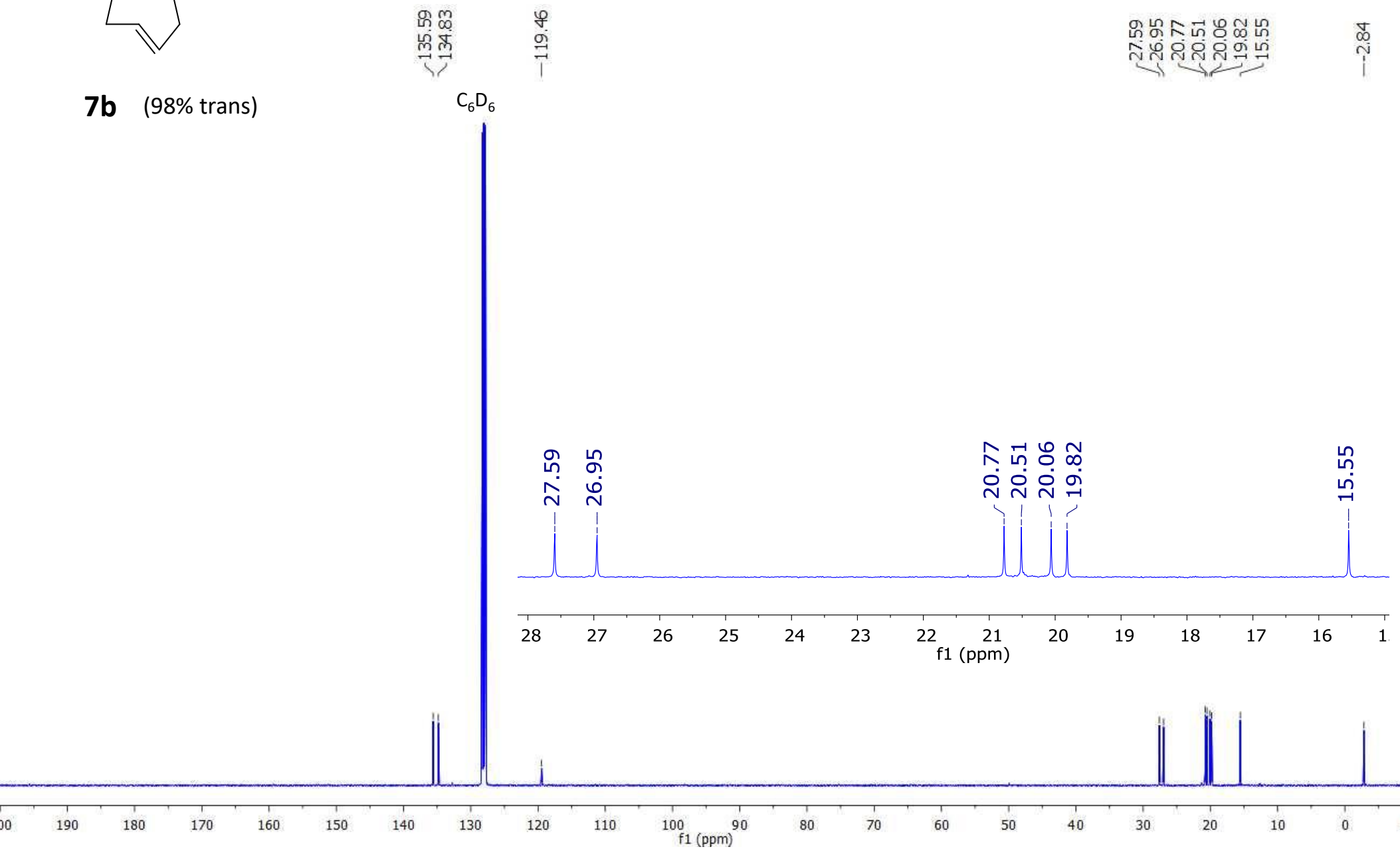
7b (98% trans)



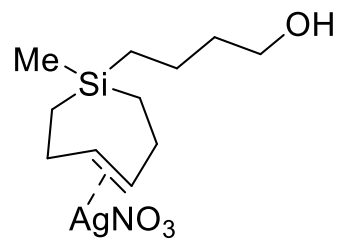
^{13}C NMR (100 MHz, C_6D_6)



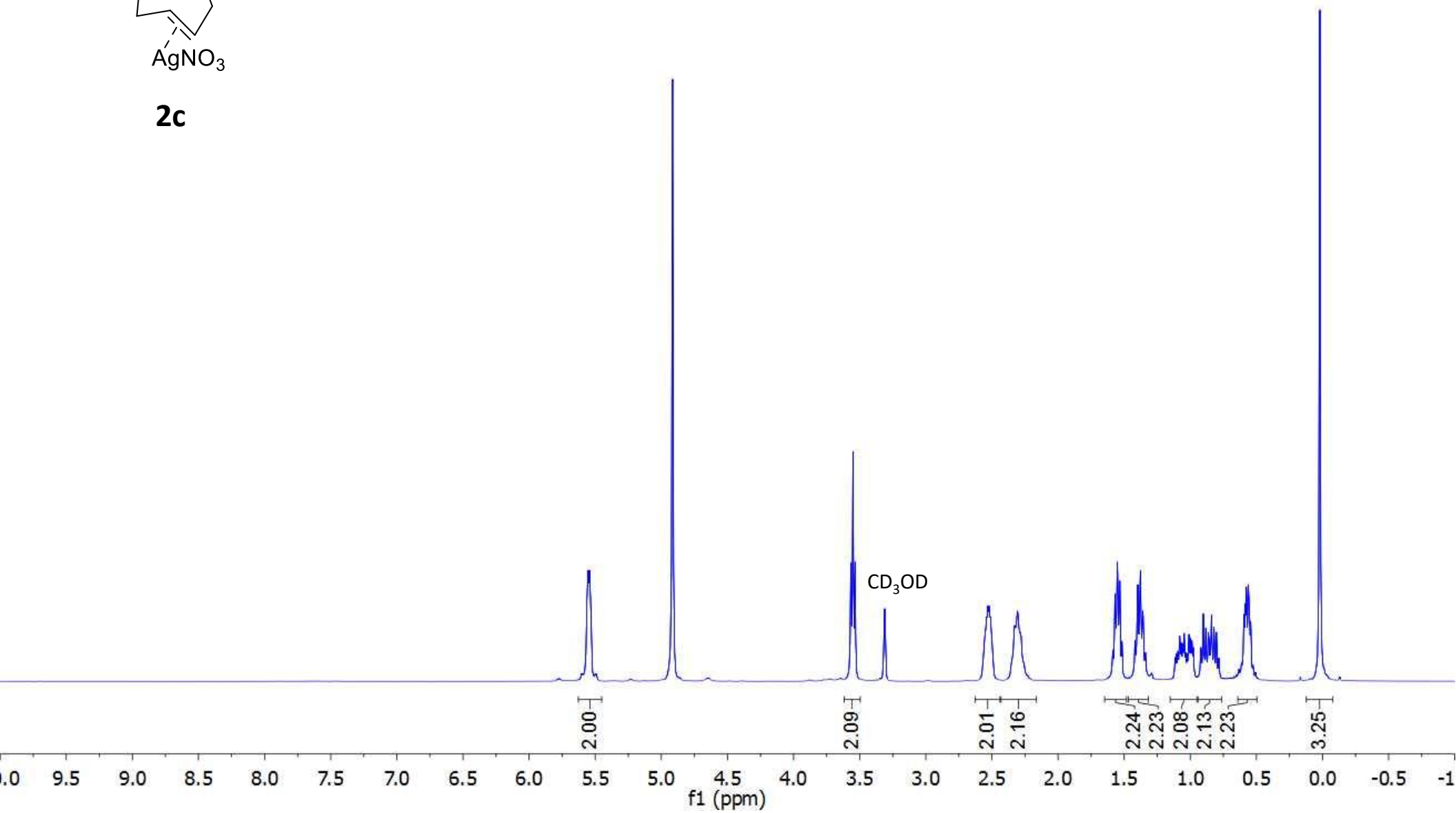
7b (98% trans)



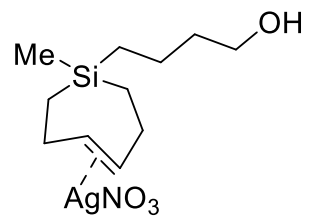
^1H NMR (400 MHz, CD_3OD)



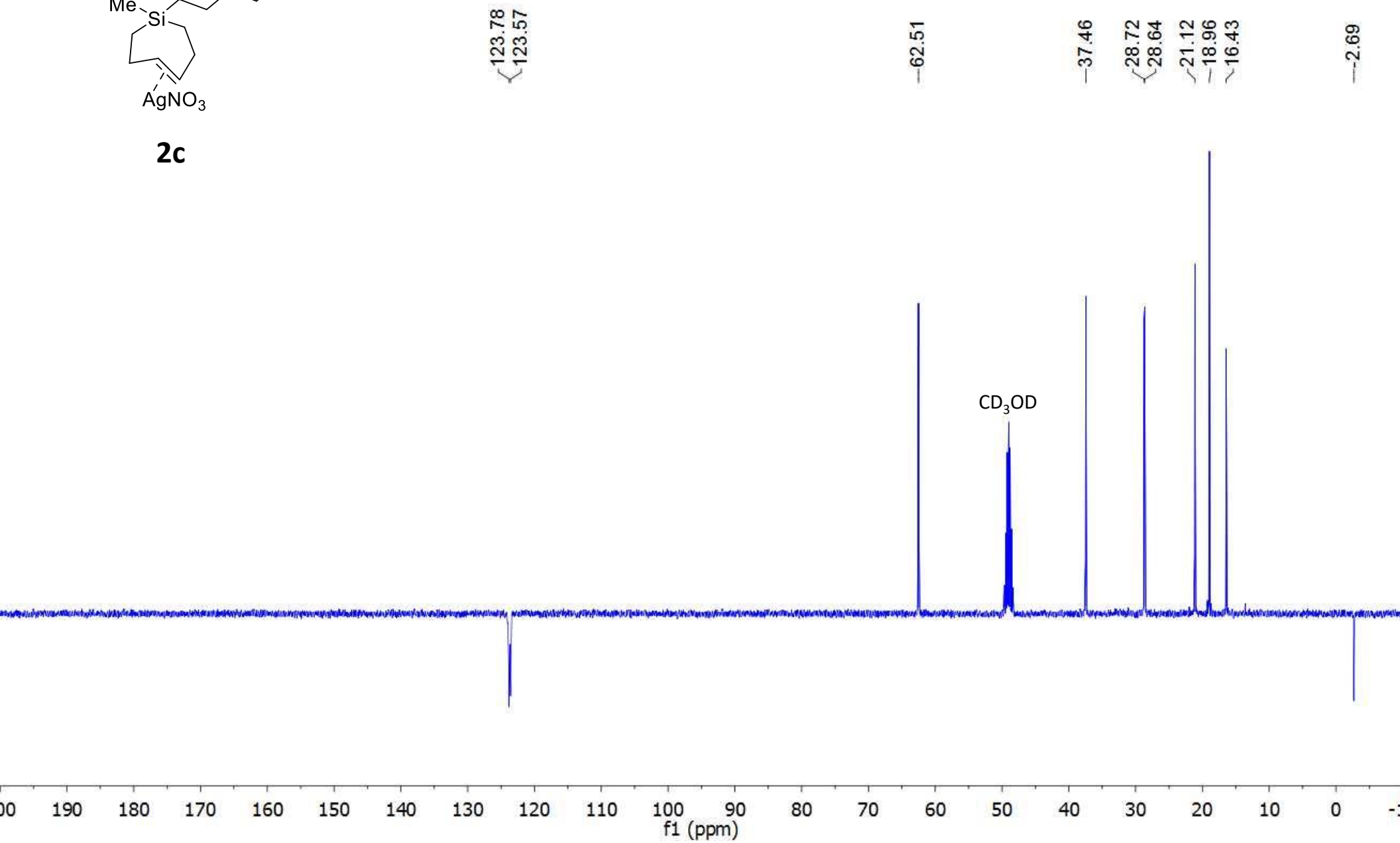
2c



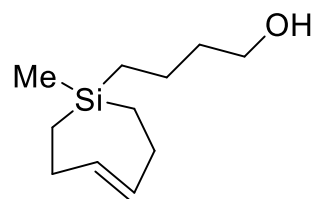
^{13}C NMR (100 MHz, CD_3OD)



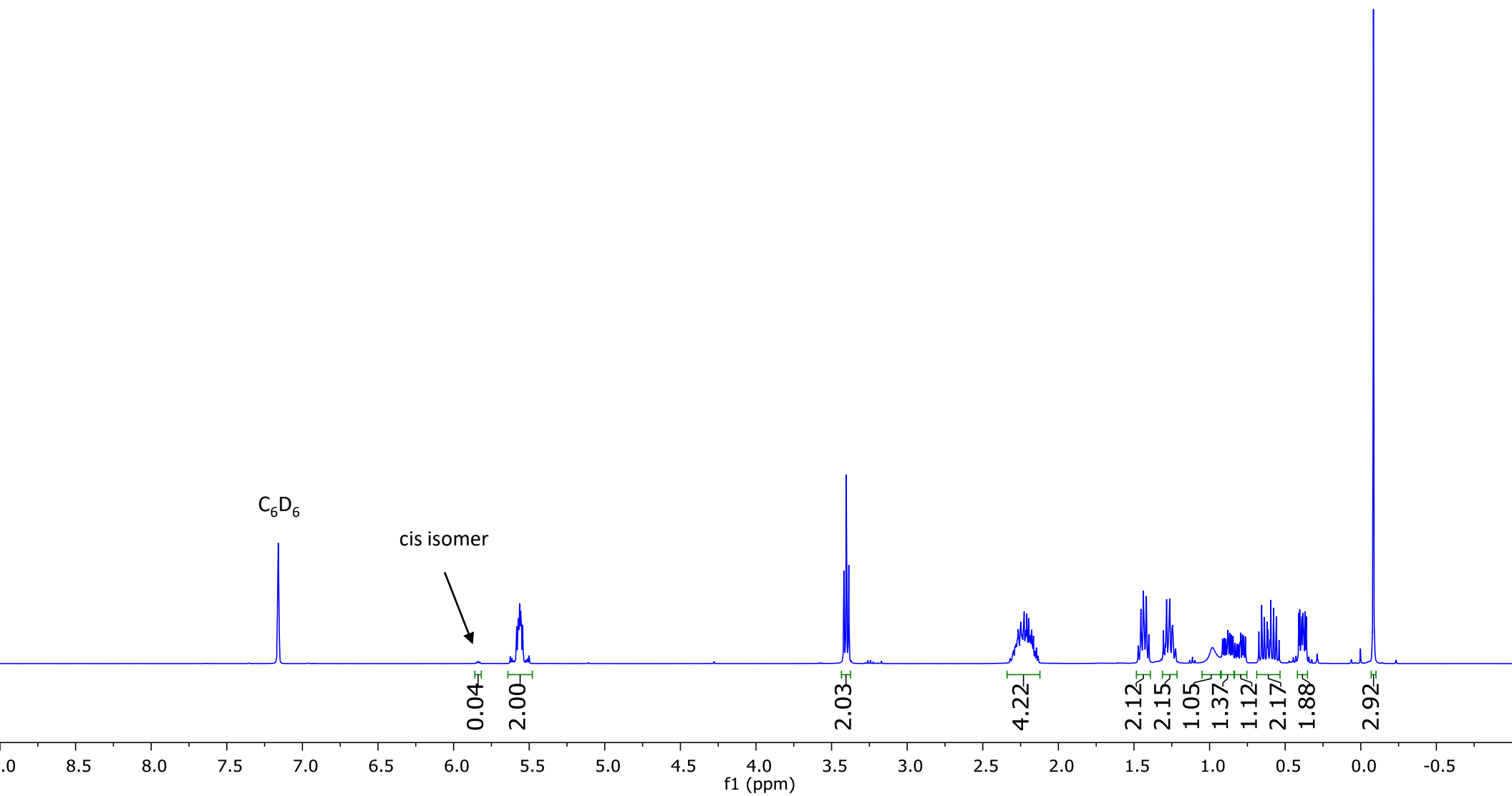
2c



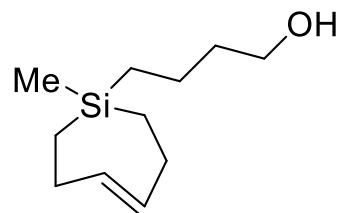
^1H NMR (400 MHz, C_6D_6)



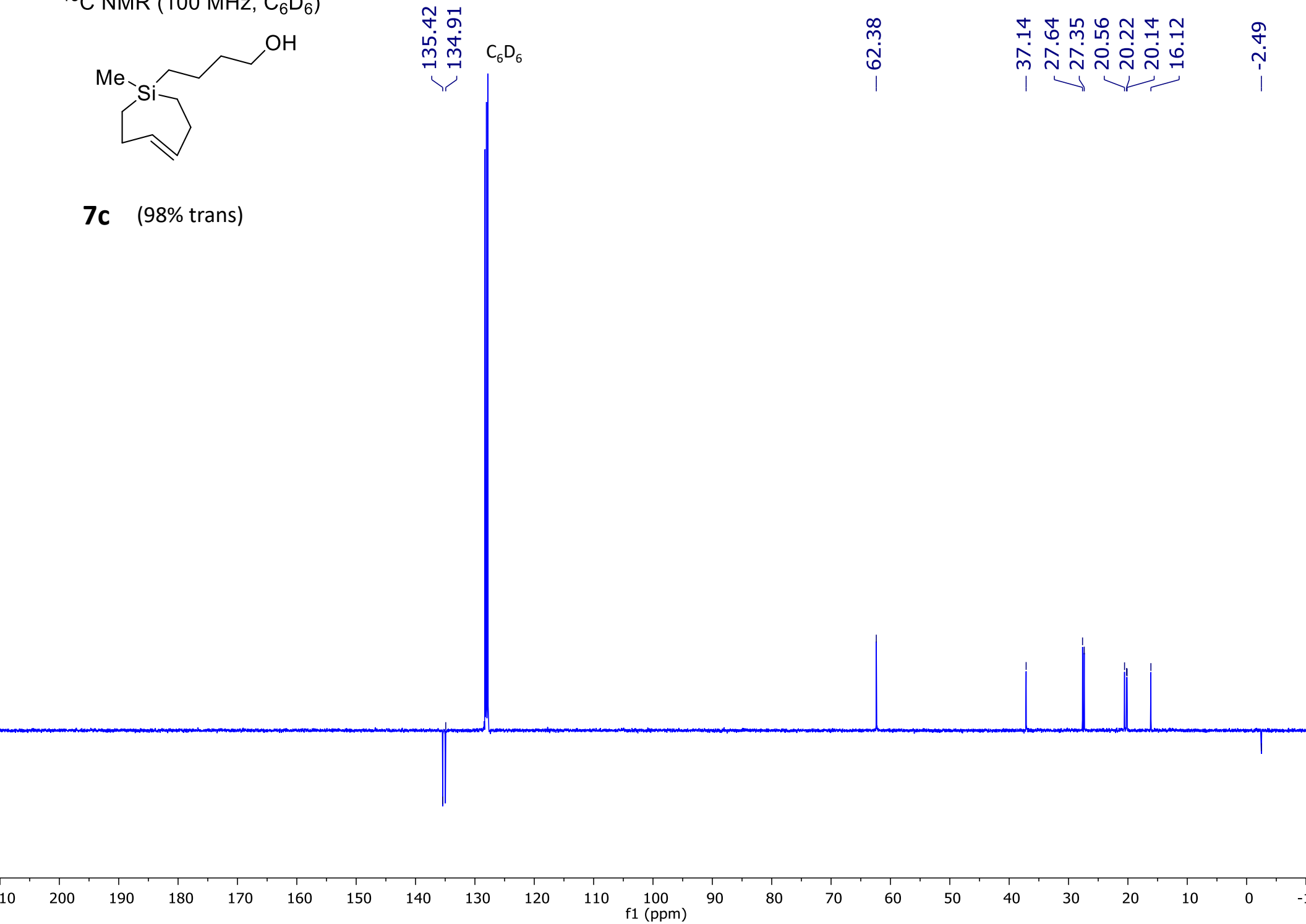
7c (98% trans)



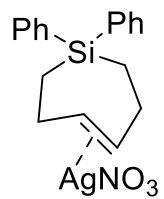
^{13}C NMR (100 MHz, C_6D_6)



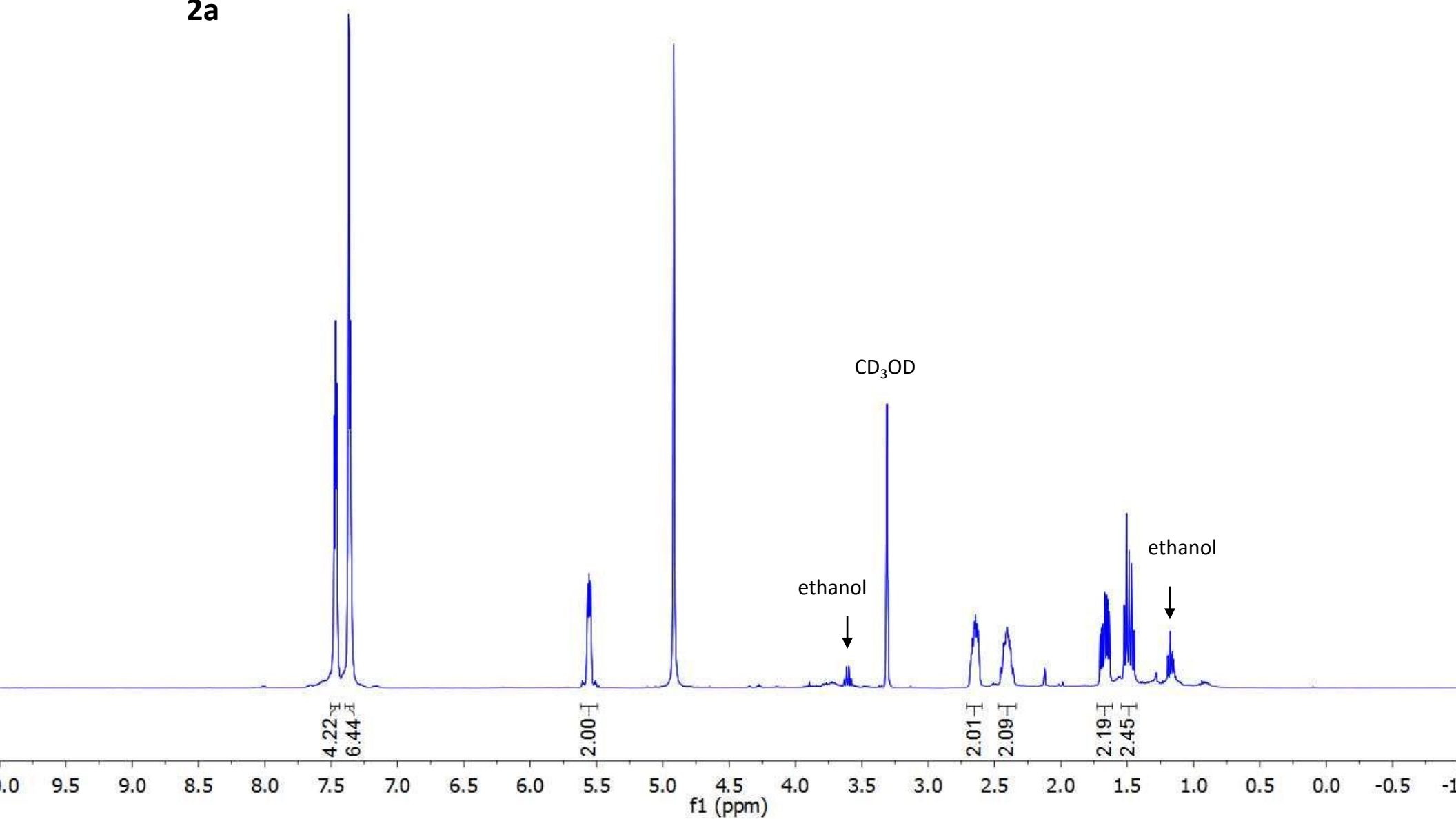
7c (98% trans)



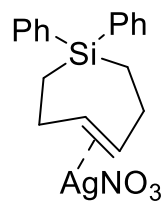
^1H NMR (400 MHz, CD_3OD)



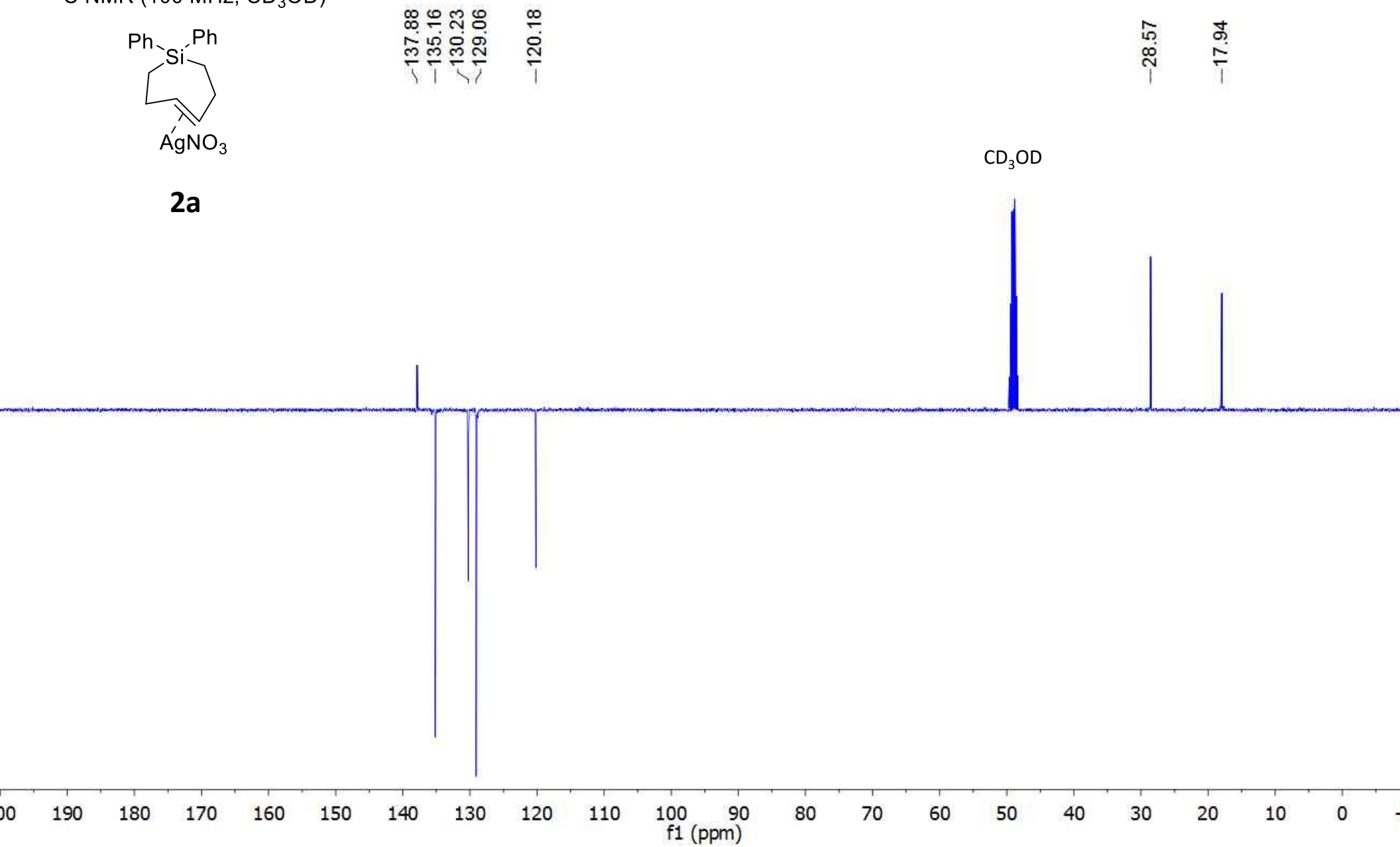
2a



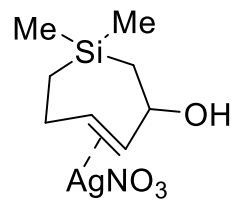
^{13}C NMR (100 MHz, CD_3OD)



2a

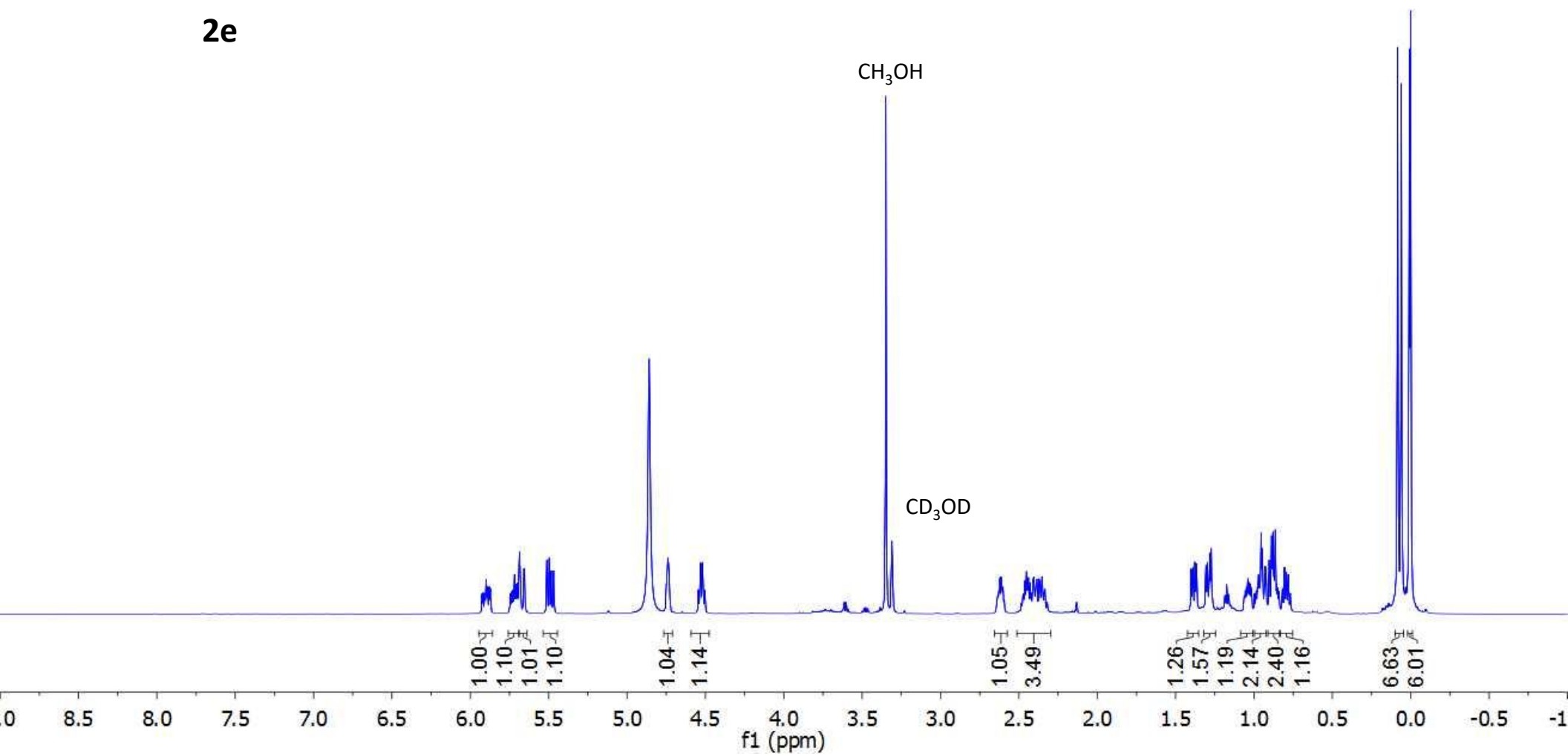


^1H NMR (600 MHz, CD_3OD)

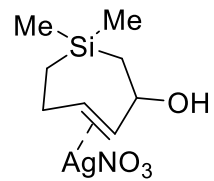


1.1: 1 dr

2e

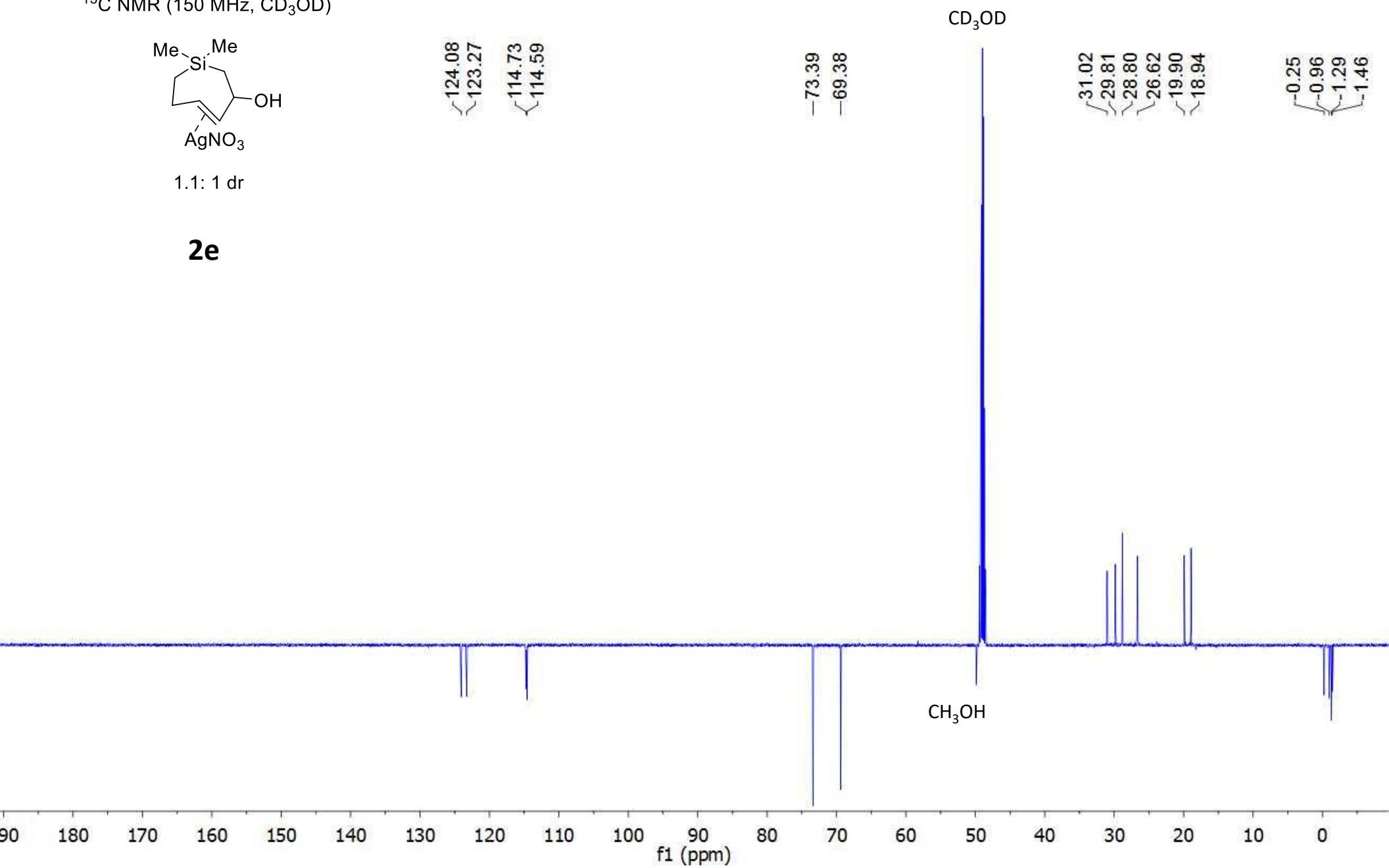


^{13}C NMR (150 MHz, CD_3OD)

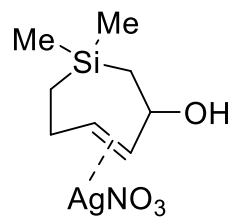


1.1: 1 dr

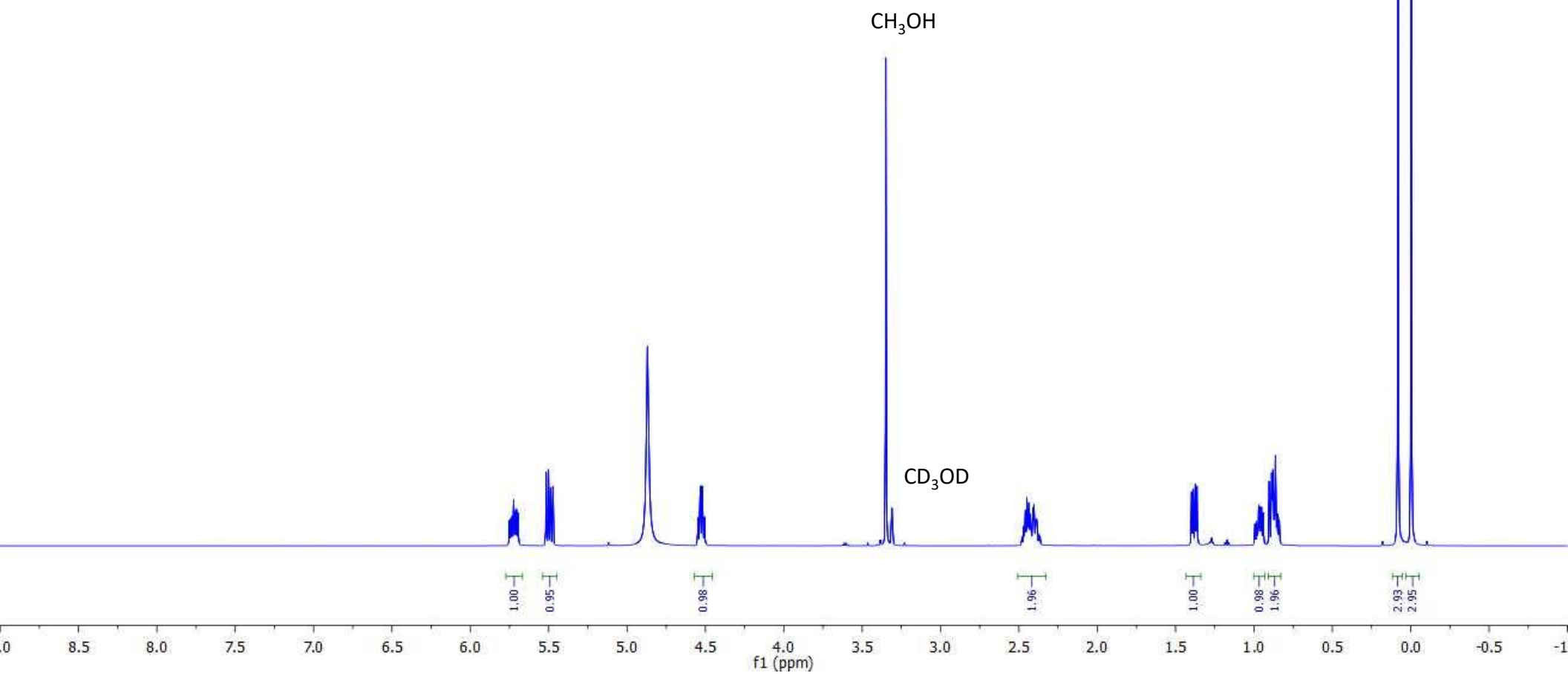
2e



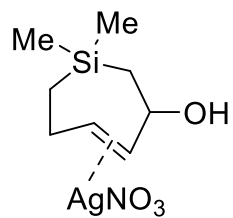
^1H NMR (600 MHz, CD_3OD)



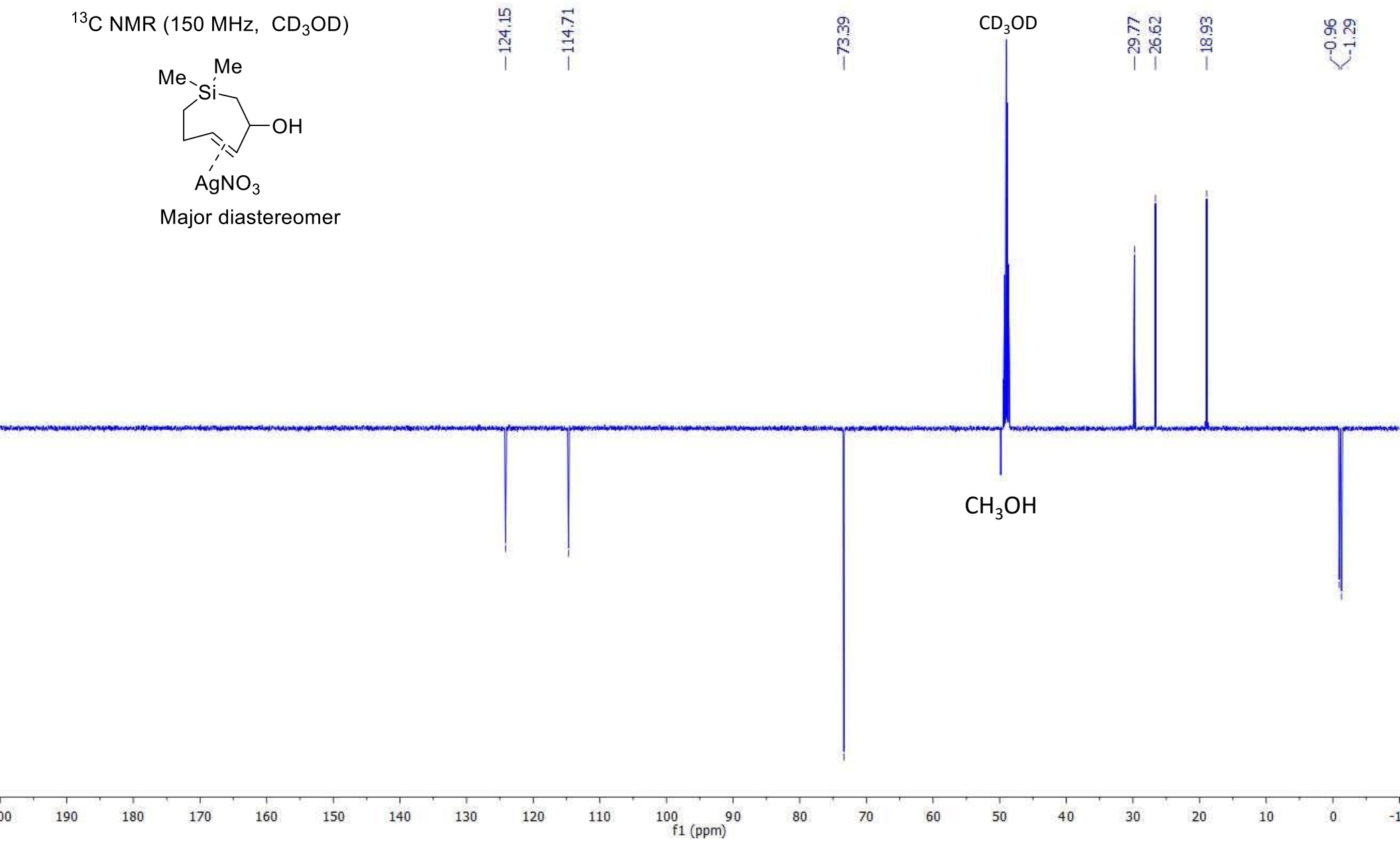
Major diastereomer



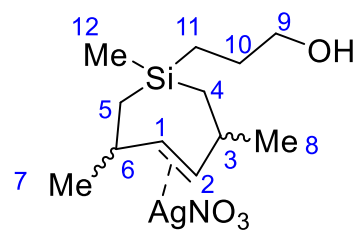
^{13}C NMR (150 MHz, CD_3OD)



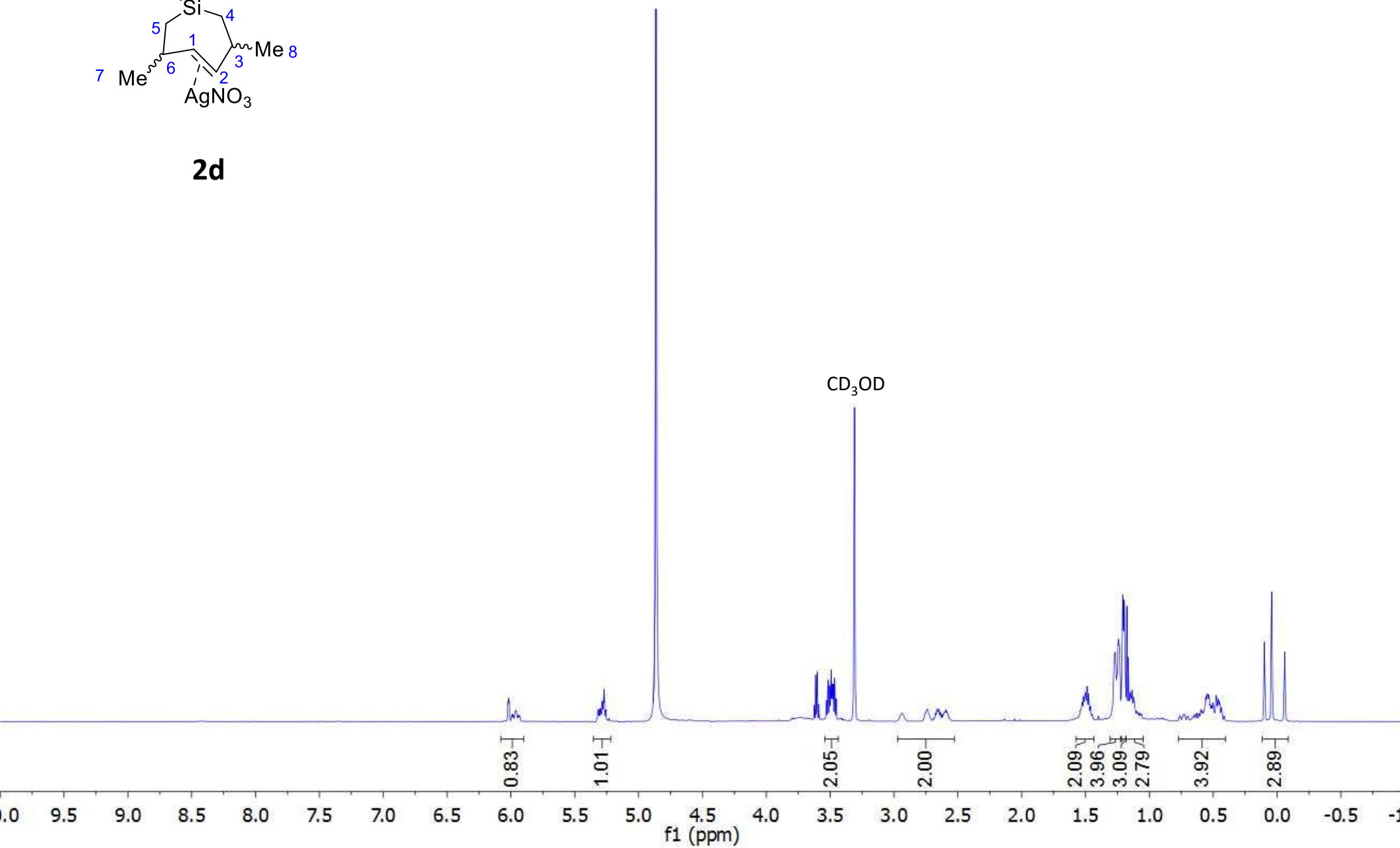
Major diastereomer



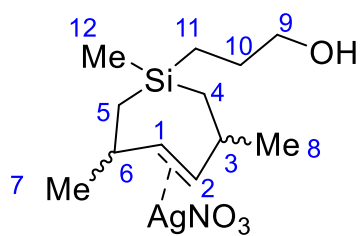
^1H NMR (600 MHz, CD_3OD)



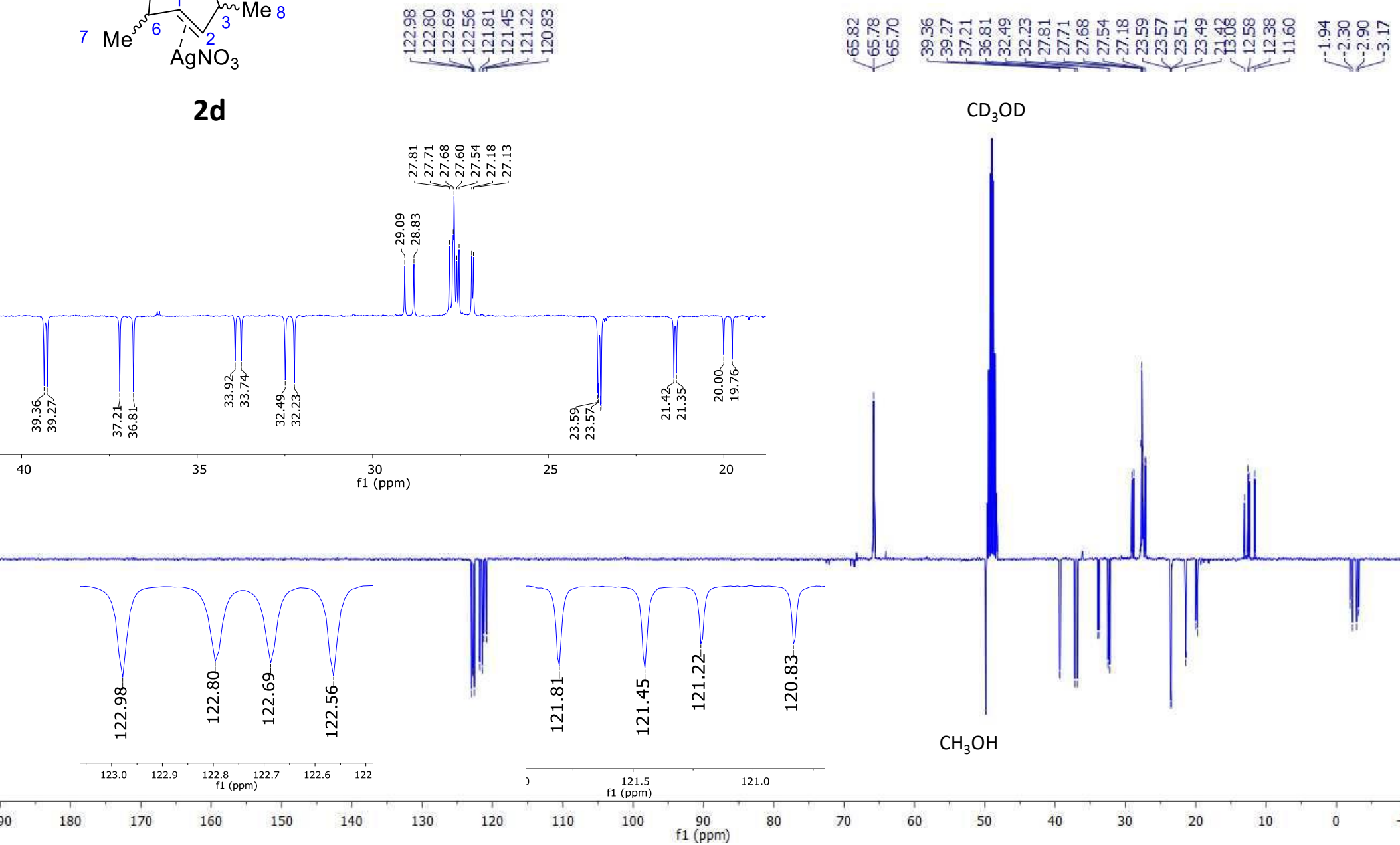
2d



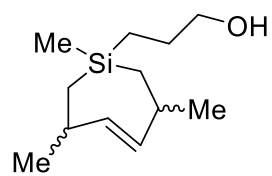
^{13}C NMR (100 MHz, CD_3OD)



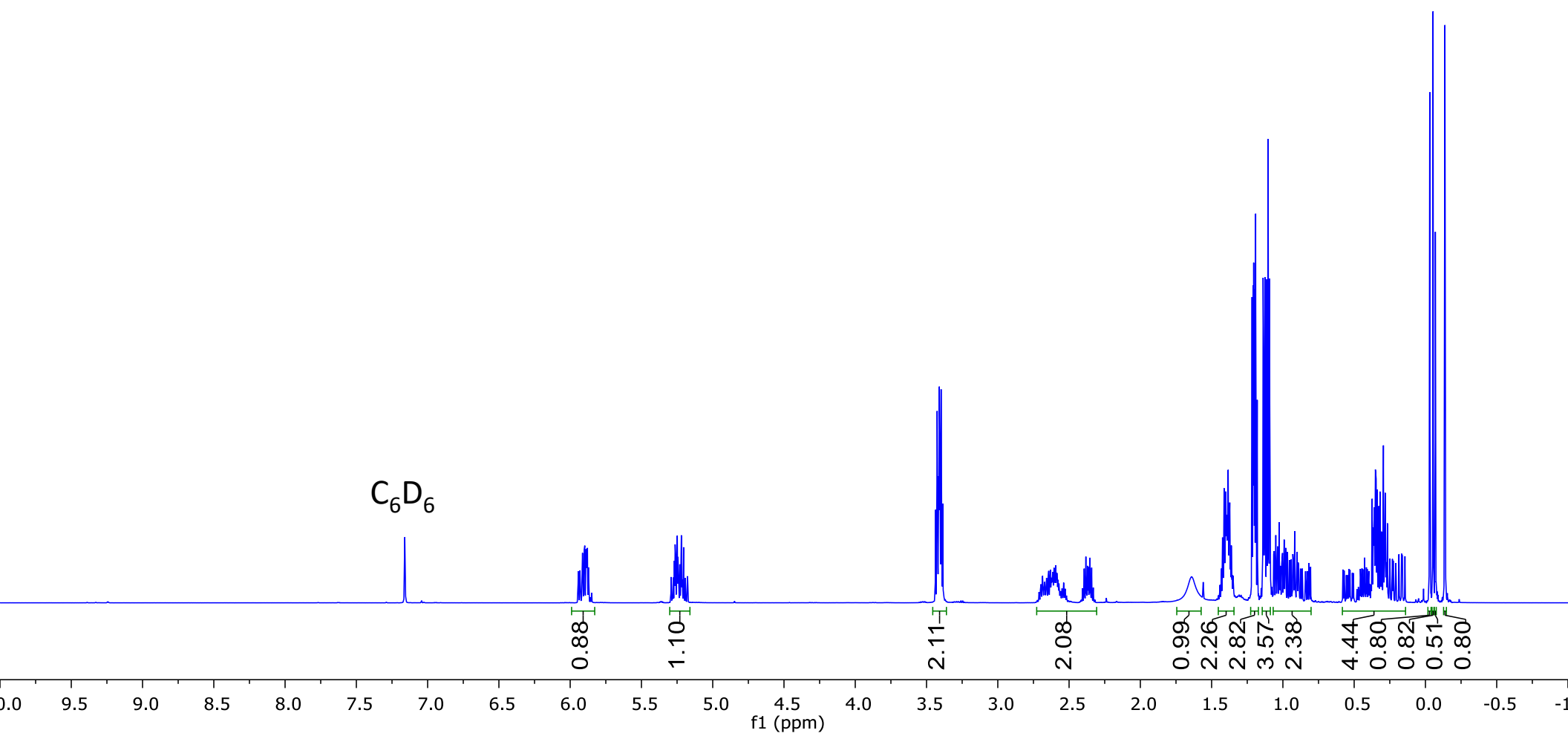
2d



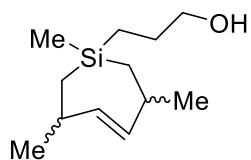
^1H NMR (600 MHz, C_6D_6)



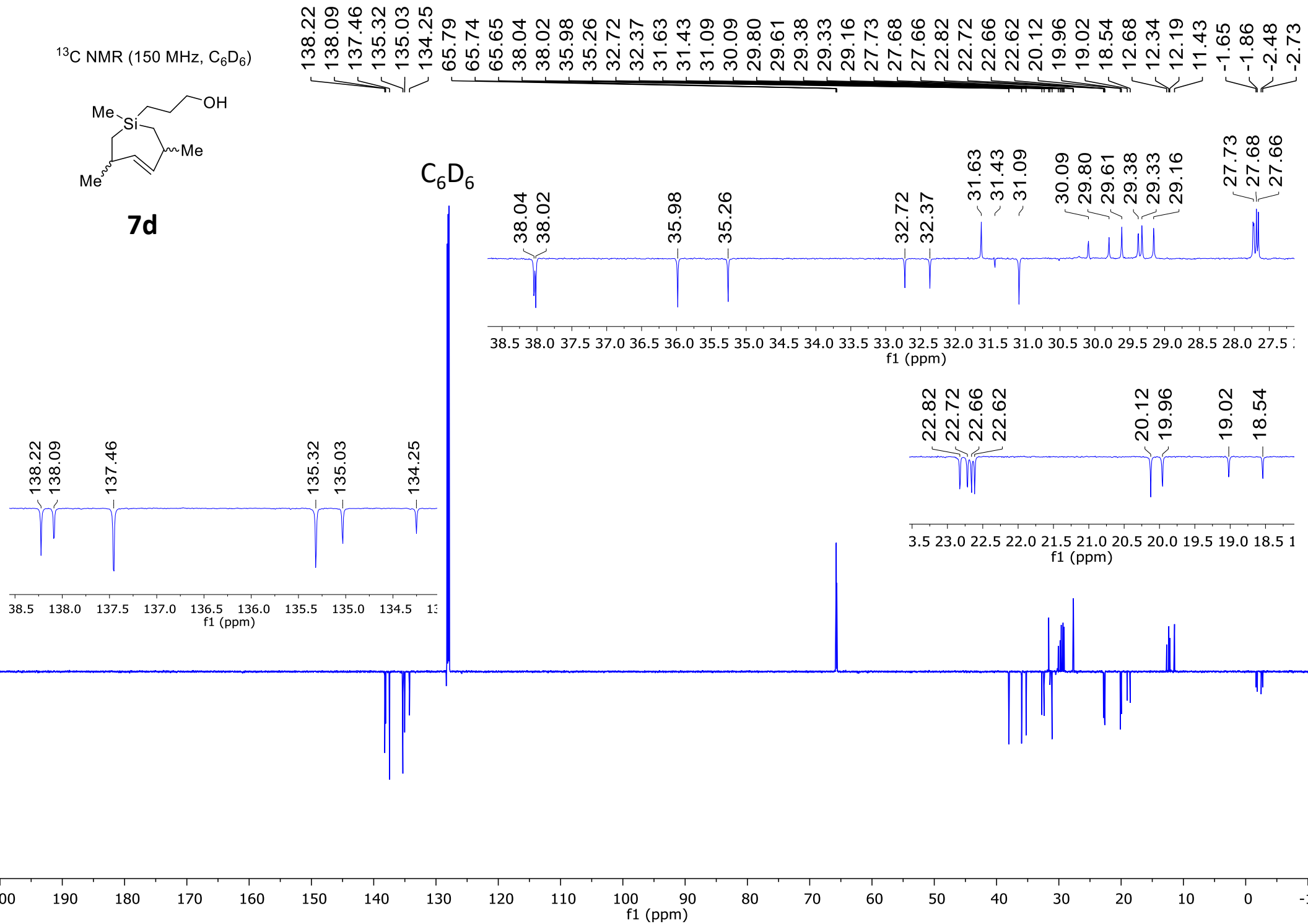
7d



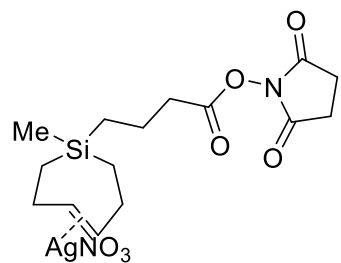
¹³C NMR (150 MHz, C₆D₆)



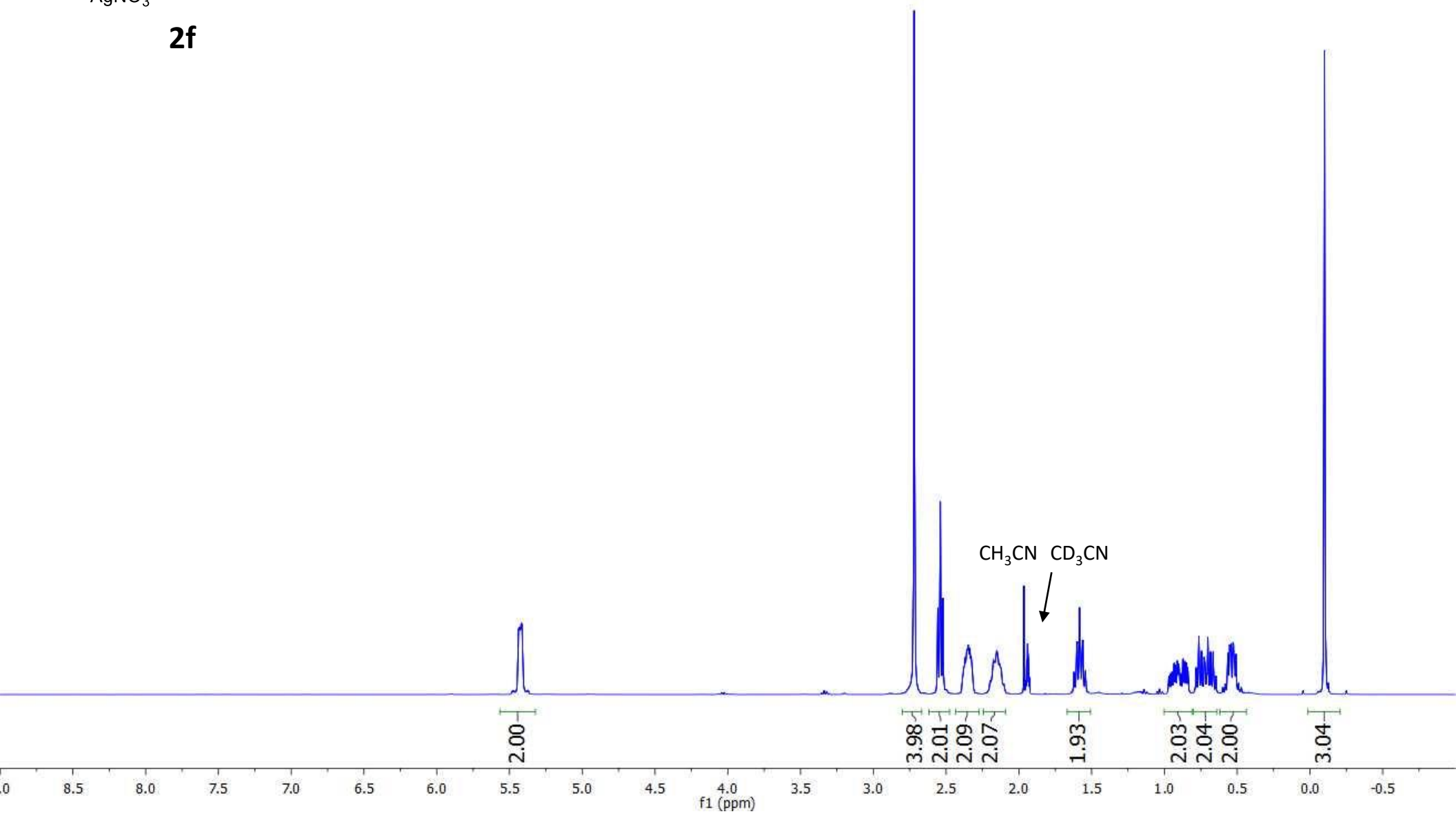
7d



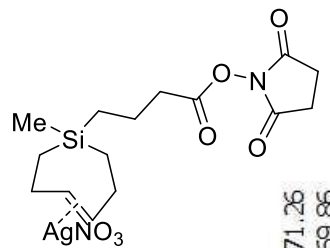
^1H NMR (400 MHz, CD_3CN)



2f



^{13}C NMR (100 MHz, CD_3CN)



2f

171.26
169.86

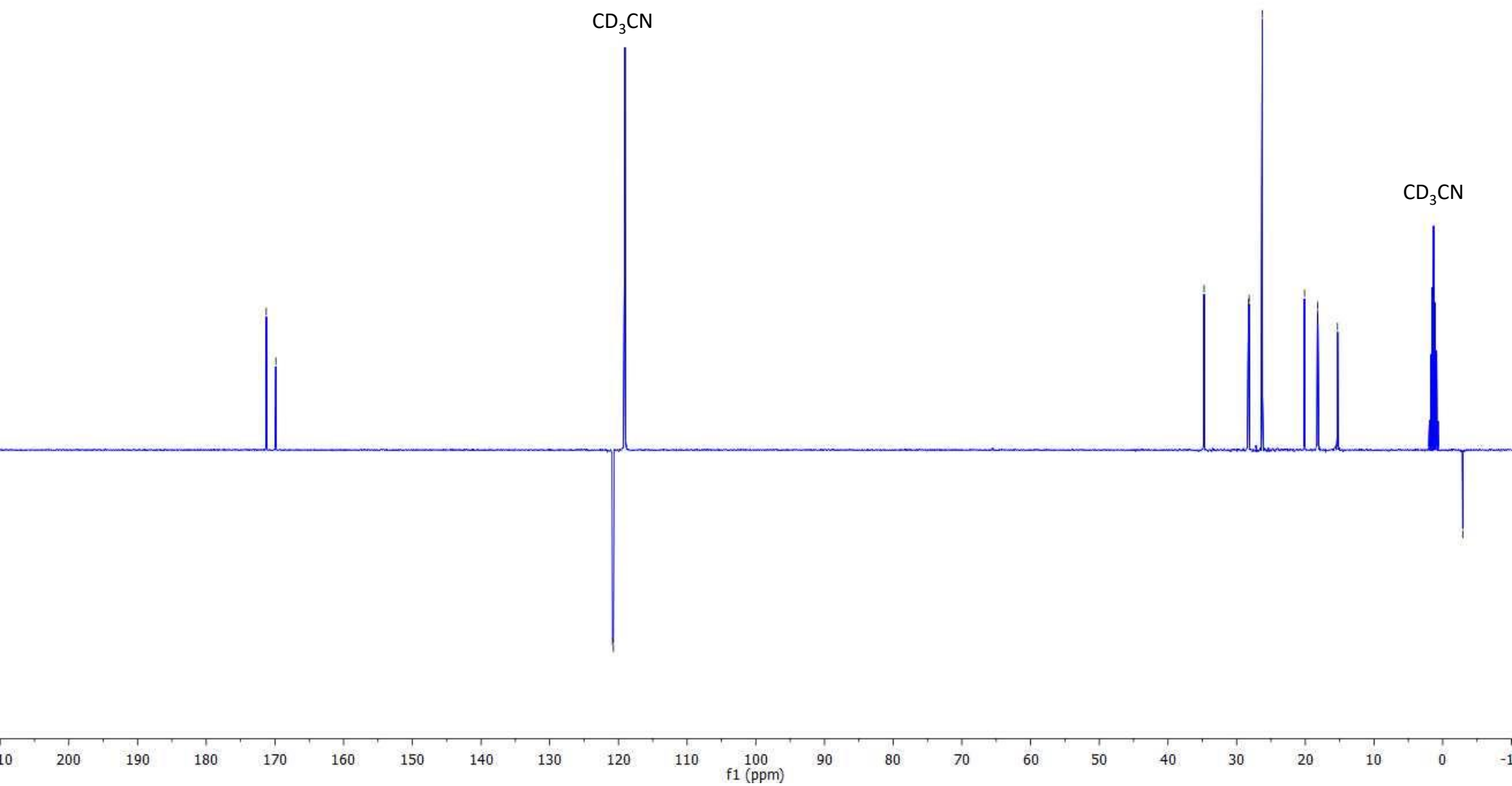
120.86
120.73

34.75
28.27
28.18
26.27
20.11
18.22
18.18
15.31

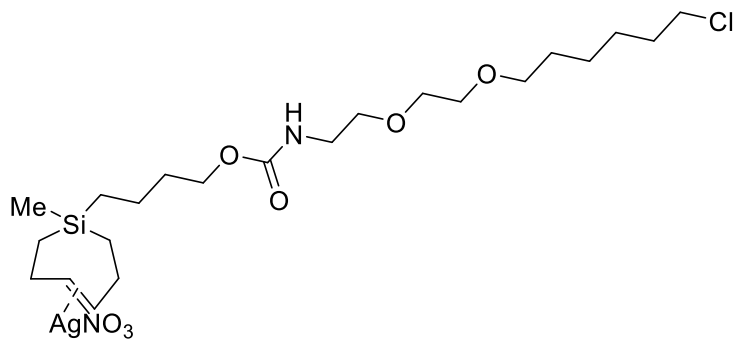
-2.91

CD_3CN

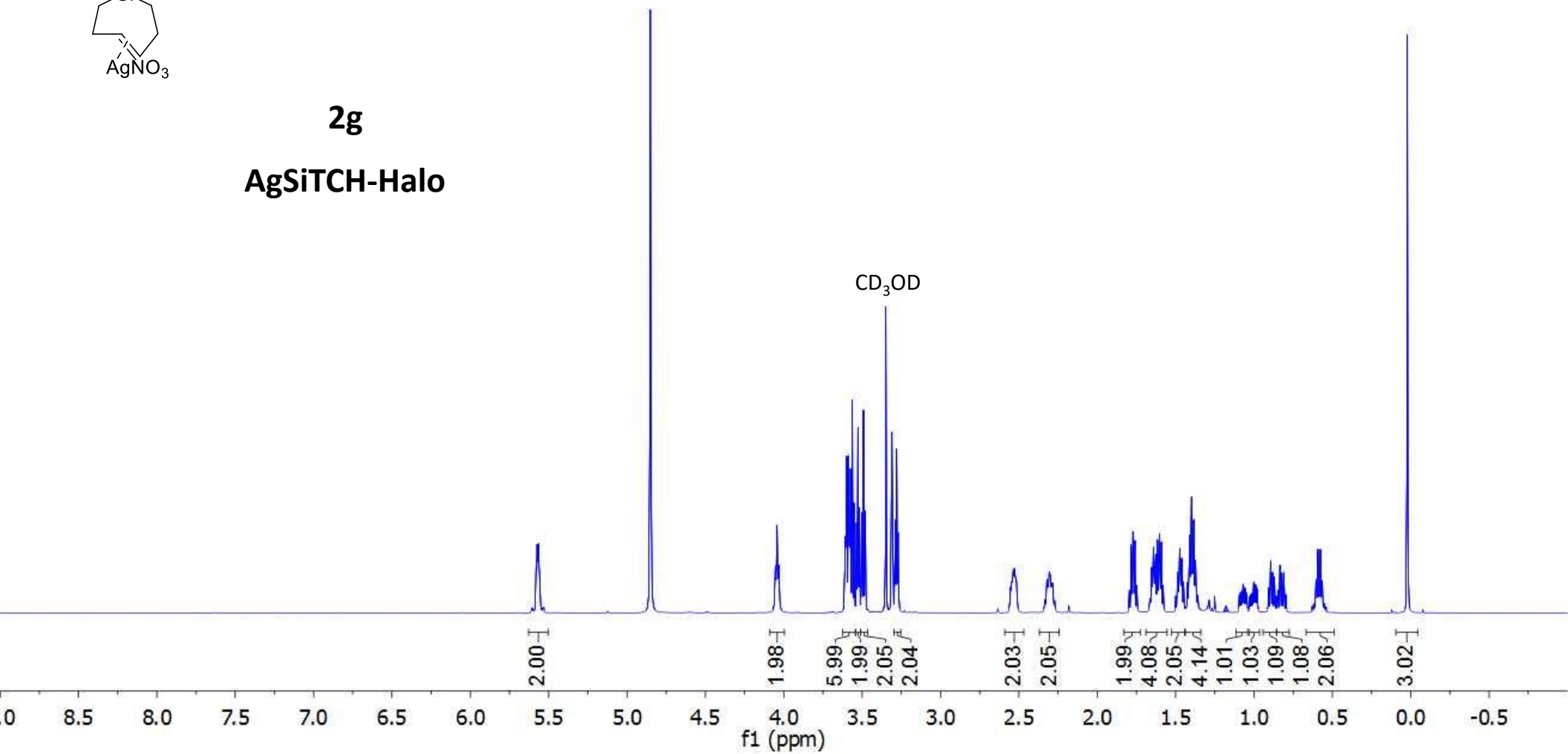
CD_3CN



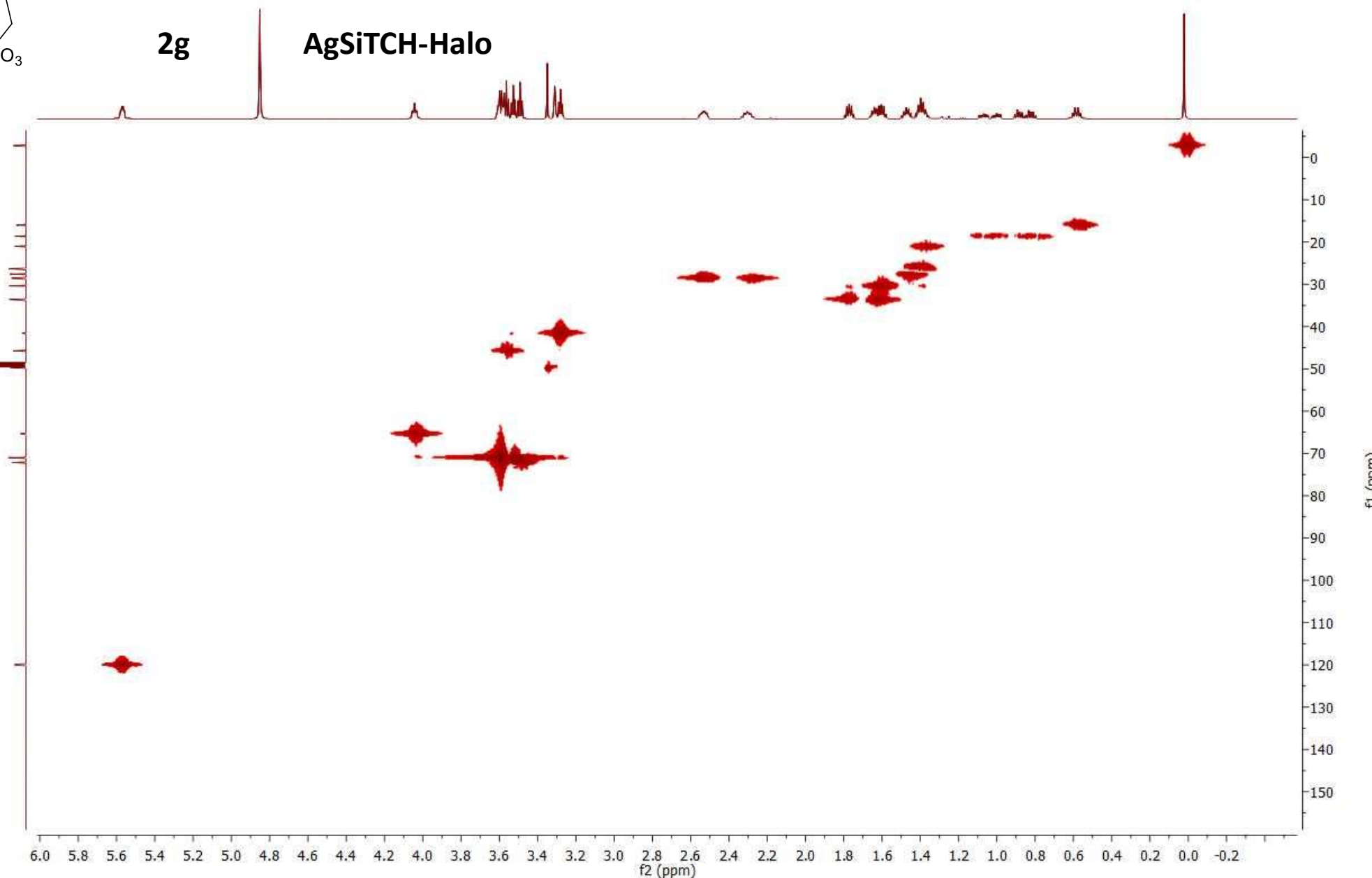
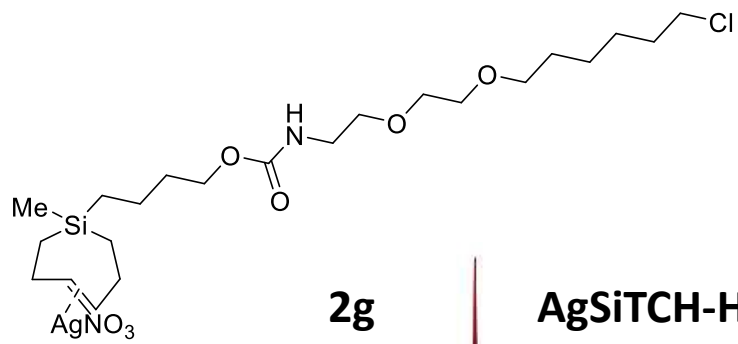
^1H NMR (600 MHz, CD_3OD)



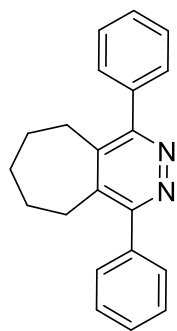
2g
AgSiTCH-Halo



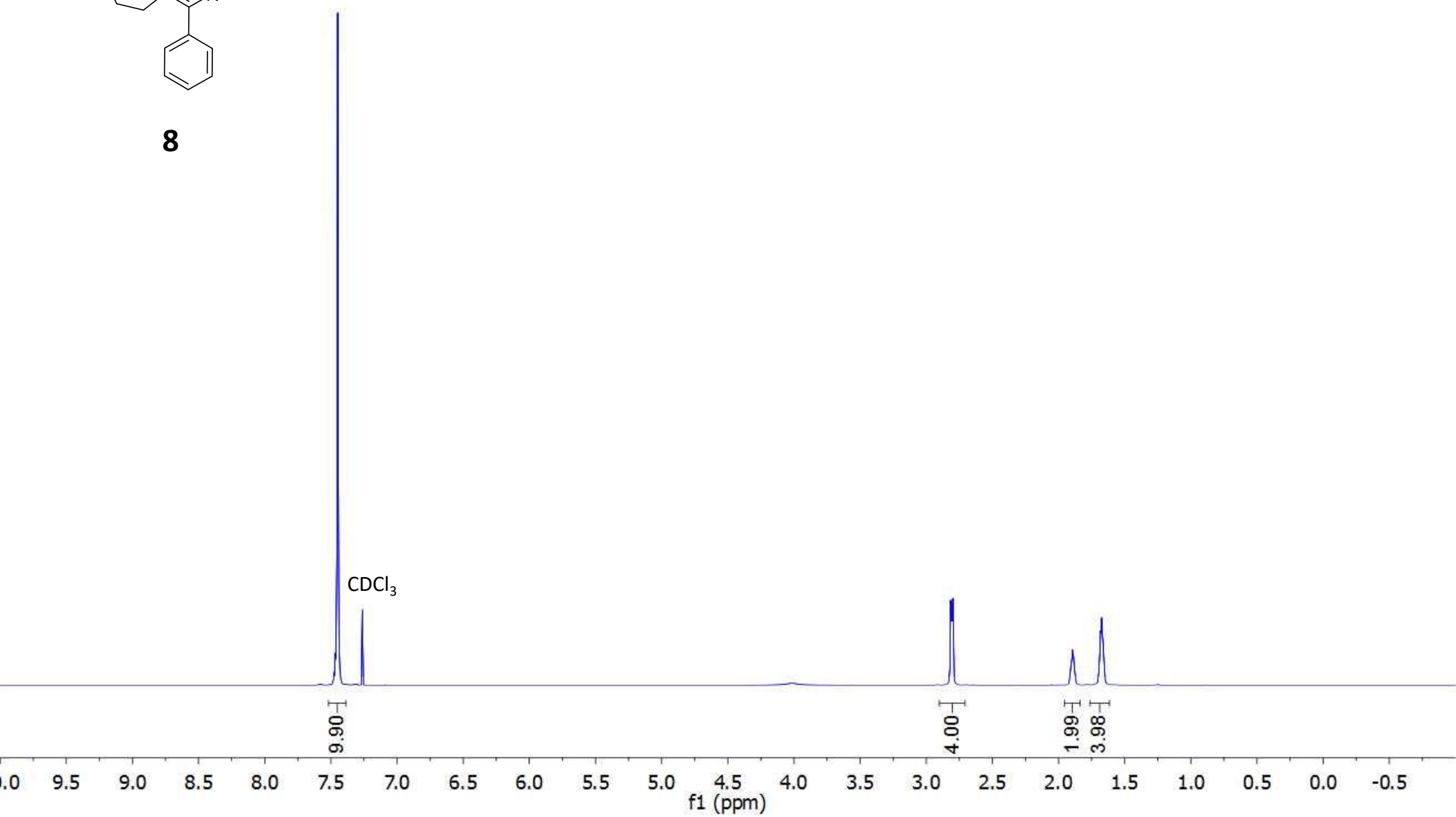
HMQC (400 MHz, CD₃OD)



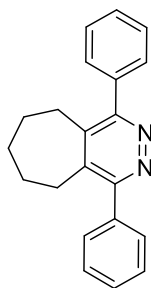
^1H NMR (600 MHz, CDCl_3)



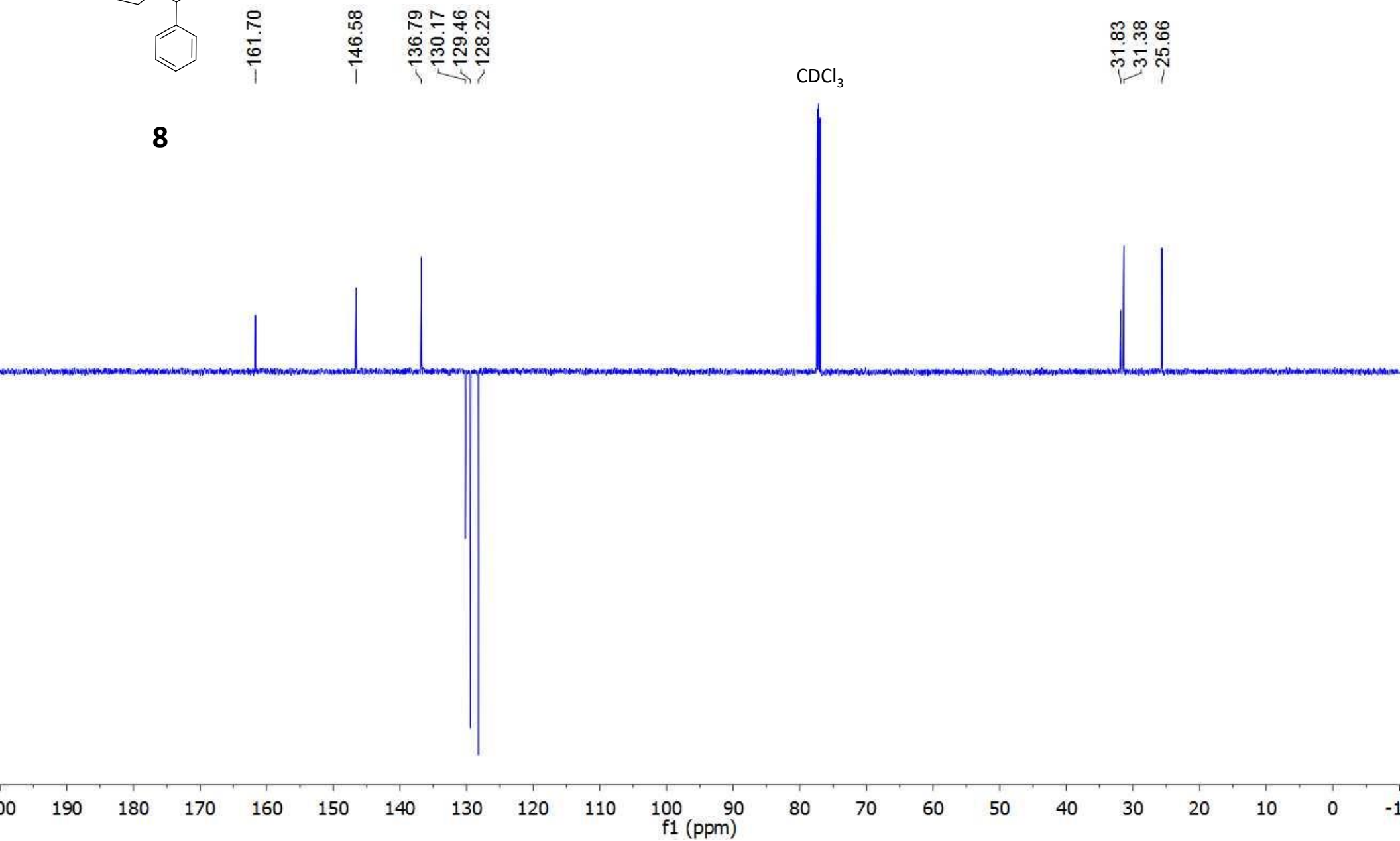
8



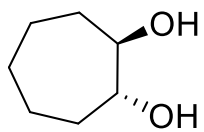
^{13}C NMR (150 MHz, CDCl_3)



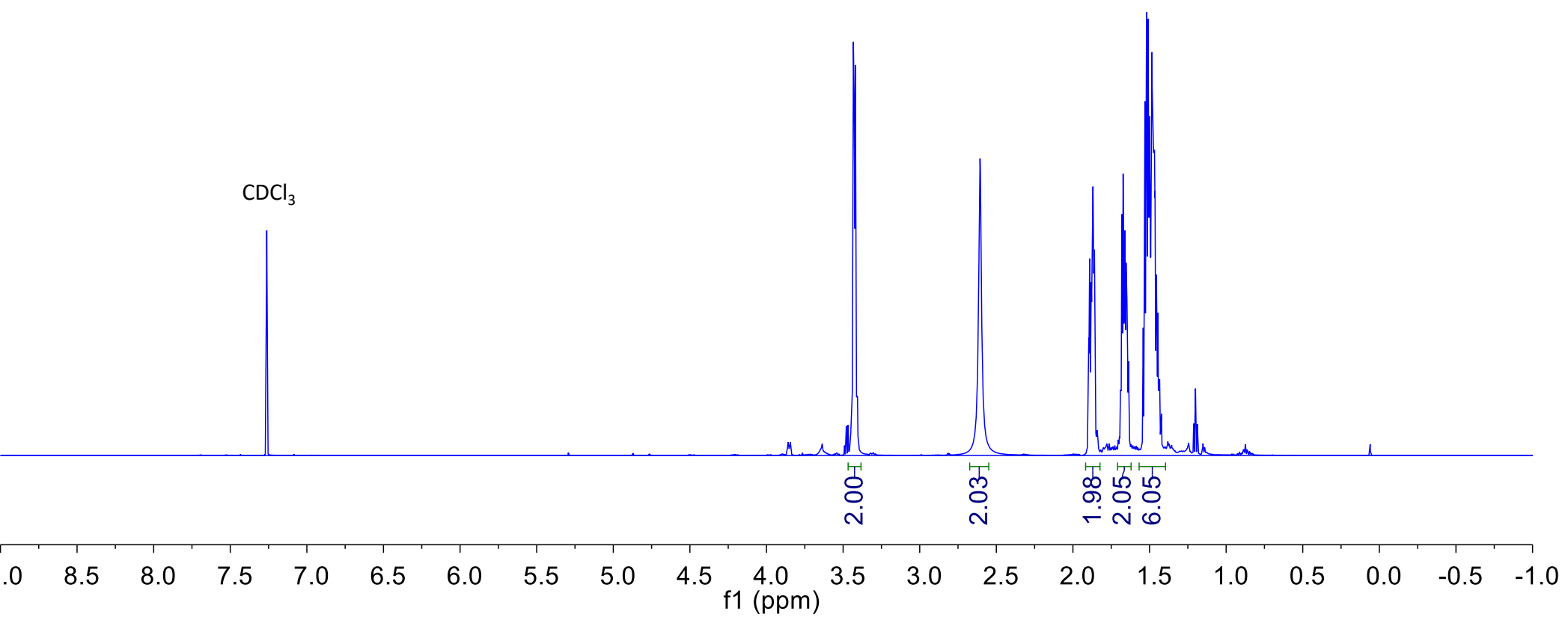
8



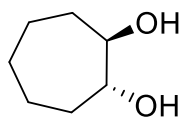
^1H NMR (600 MHz, CDCl_3)



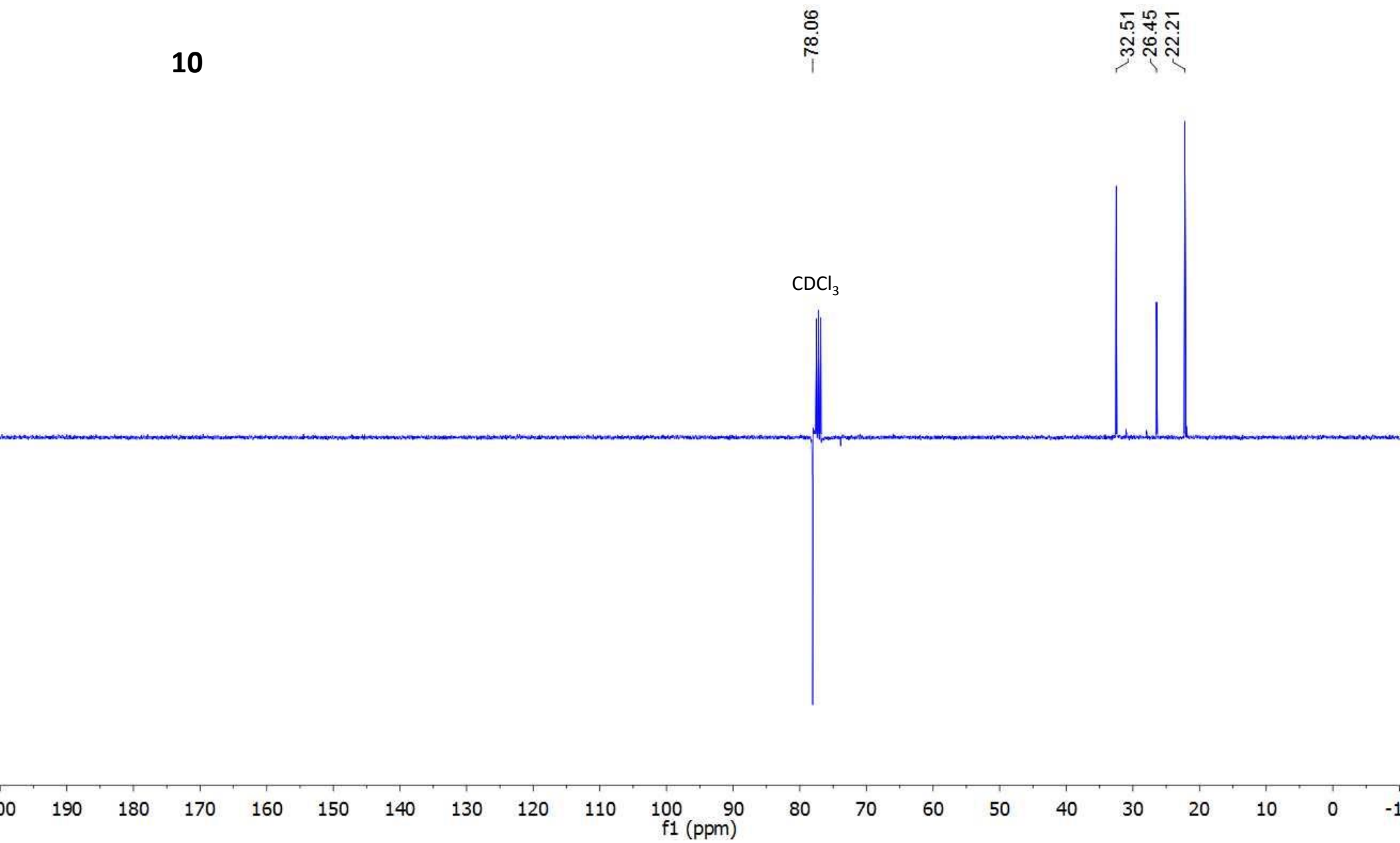
10



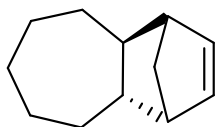
^{13}C NMR (100 MHz, CDCl_3)



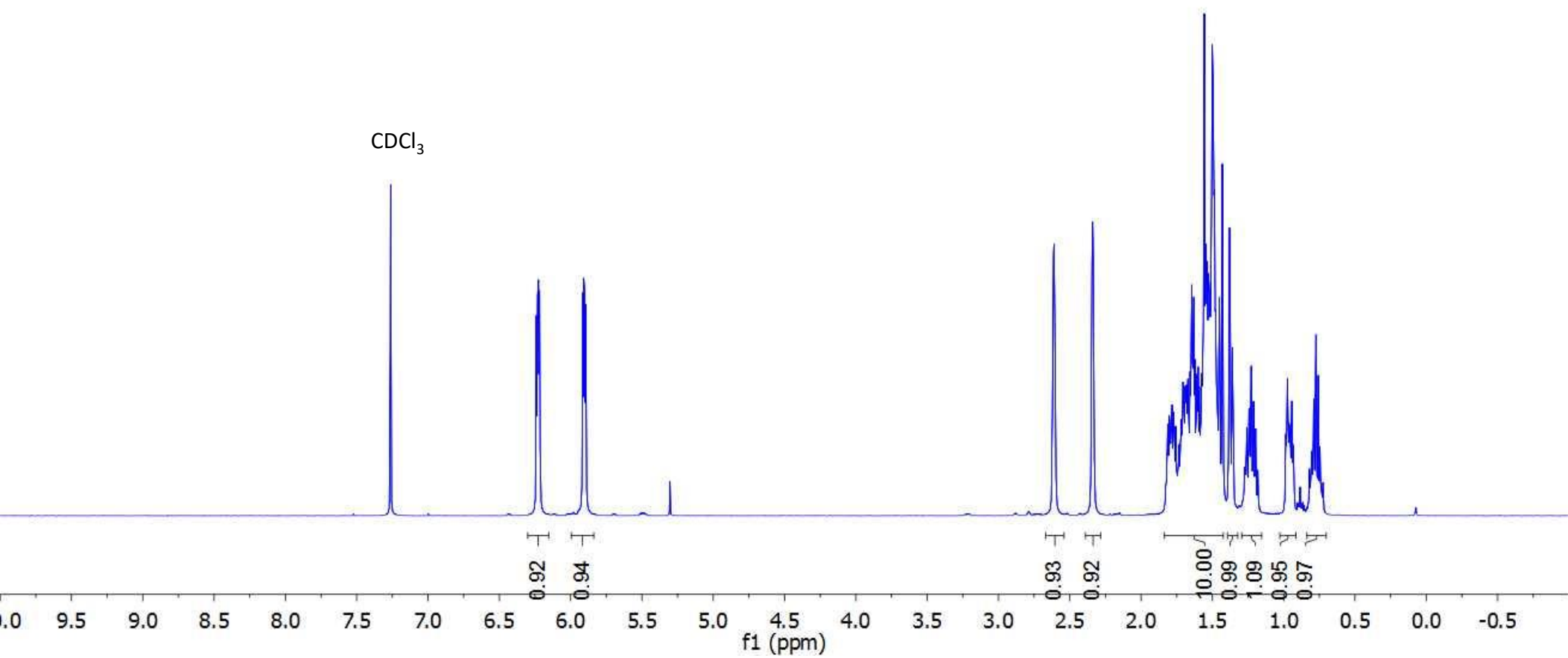
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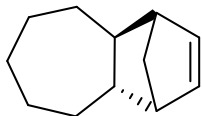
^1H NMR (400 MHz, CDCl_3)



9



^{13}C NMR (100 MHz, CDCl_3)



9

-139.07

-131.71

47.47

47.30

47.19

45.30

44.89

32.77

30.78

29.53

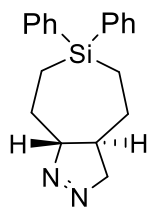
29.34

25.05

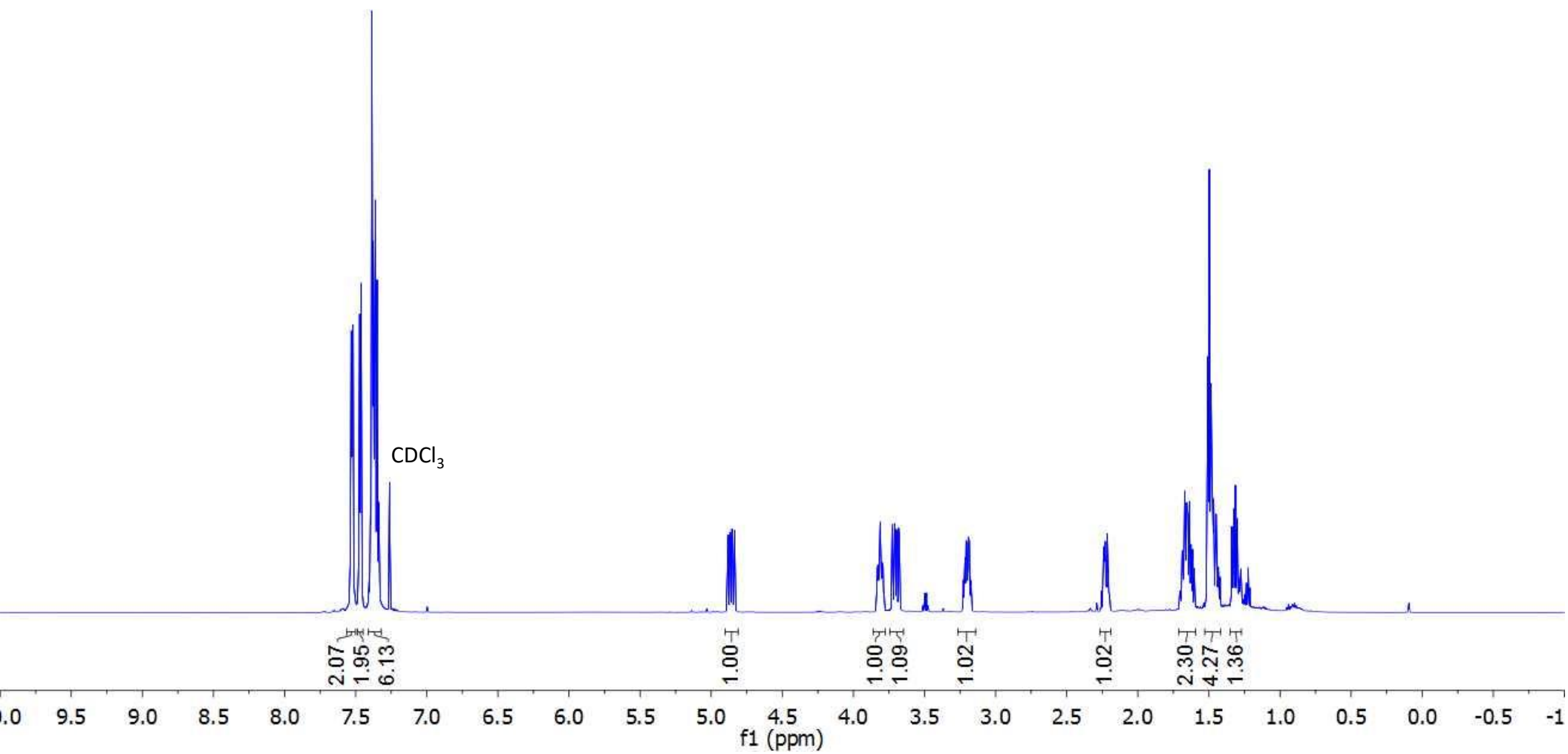
CDCl_3

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10
f1 (ppm)

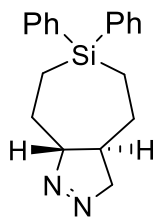
^1H NMR (600 MHz, CDCl_3)



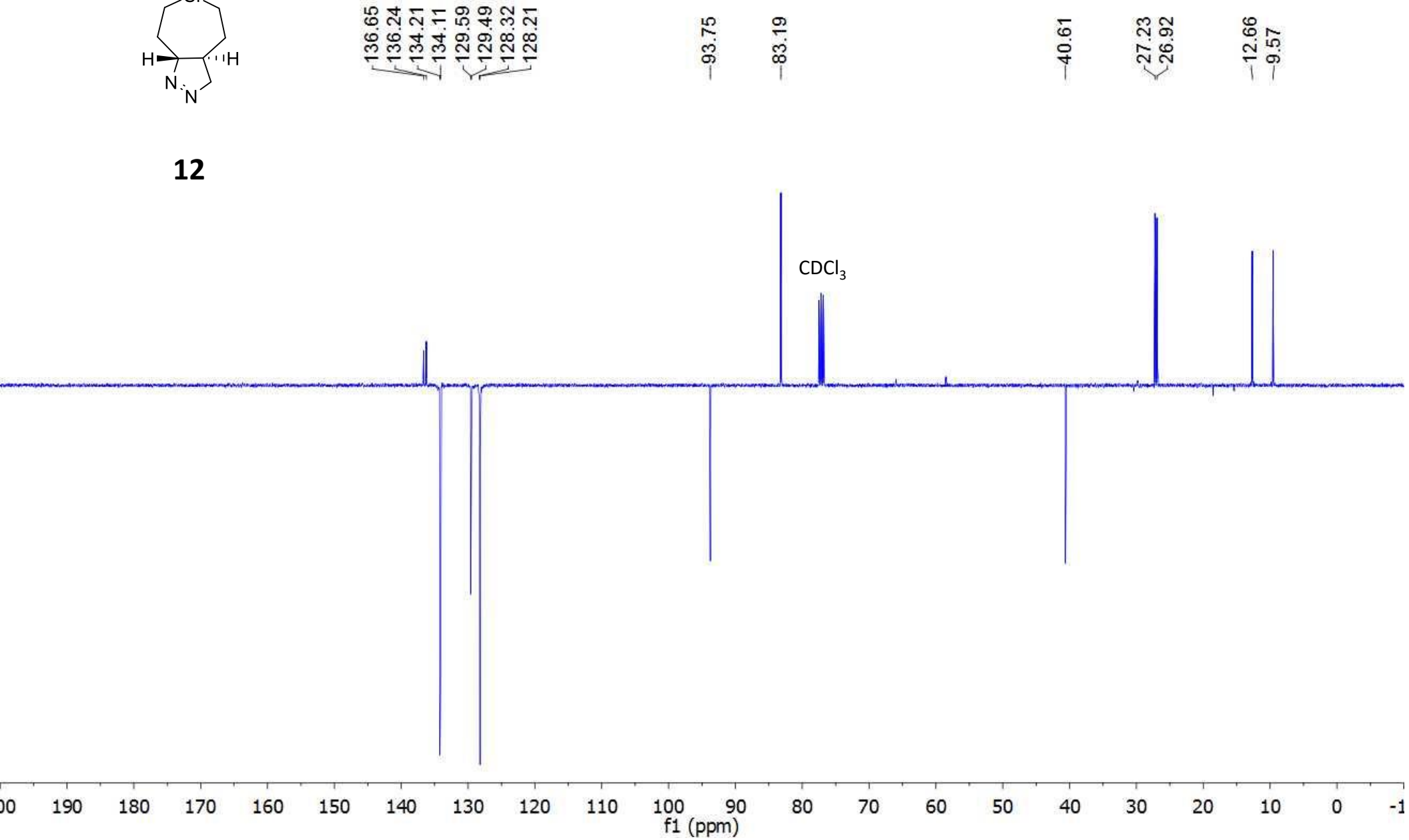
12



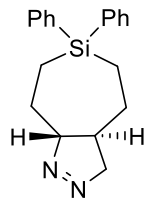
^{13}C NMR (100 MHz, CDCl_3)



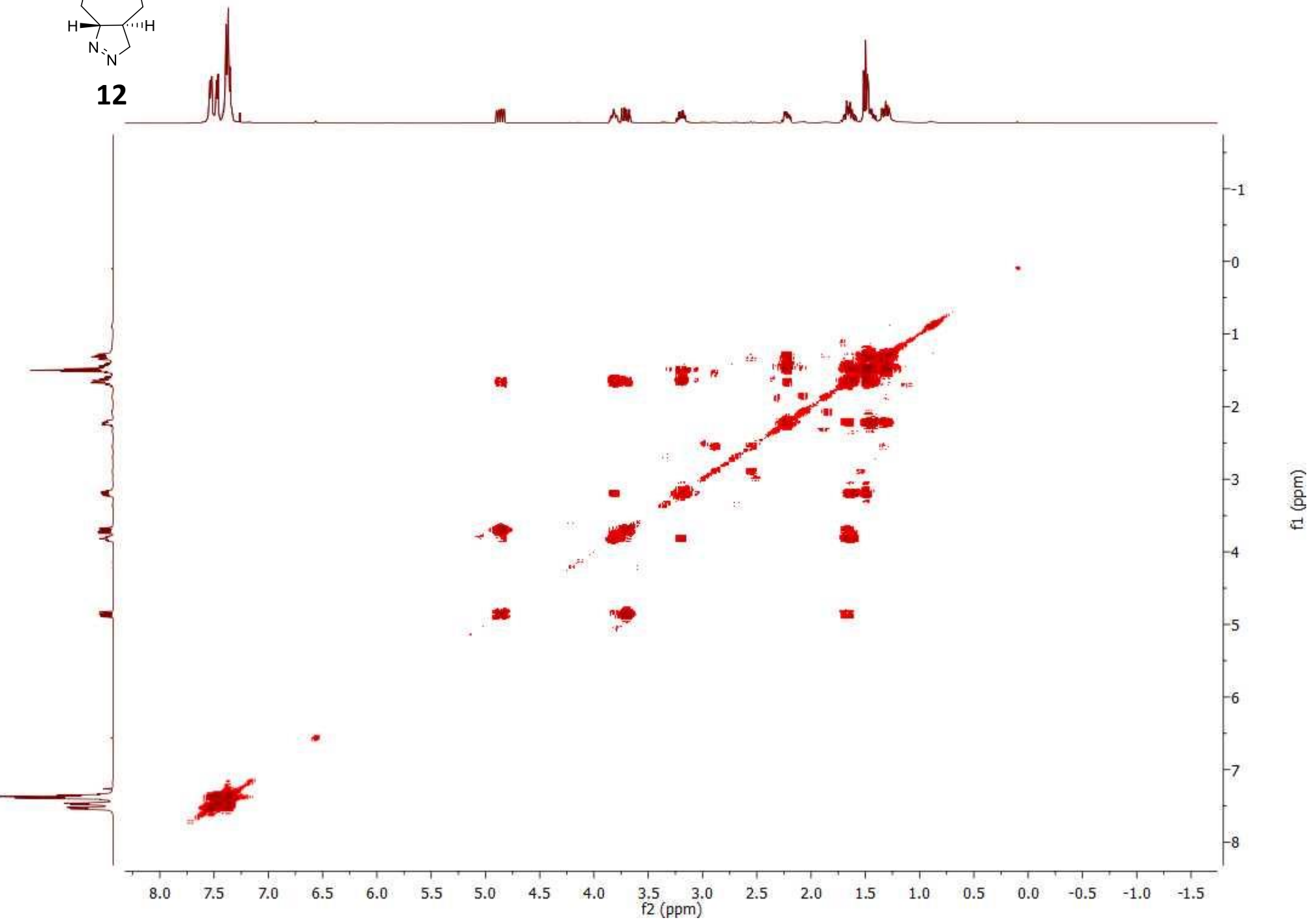
12



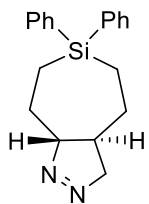
COSY (400 MHz, CDCl₃)



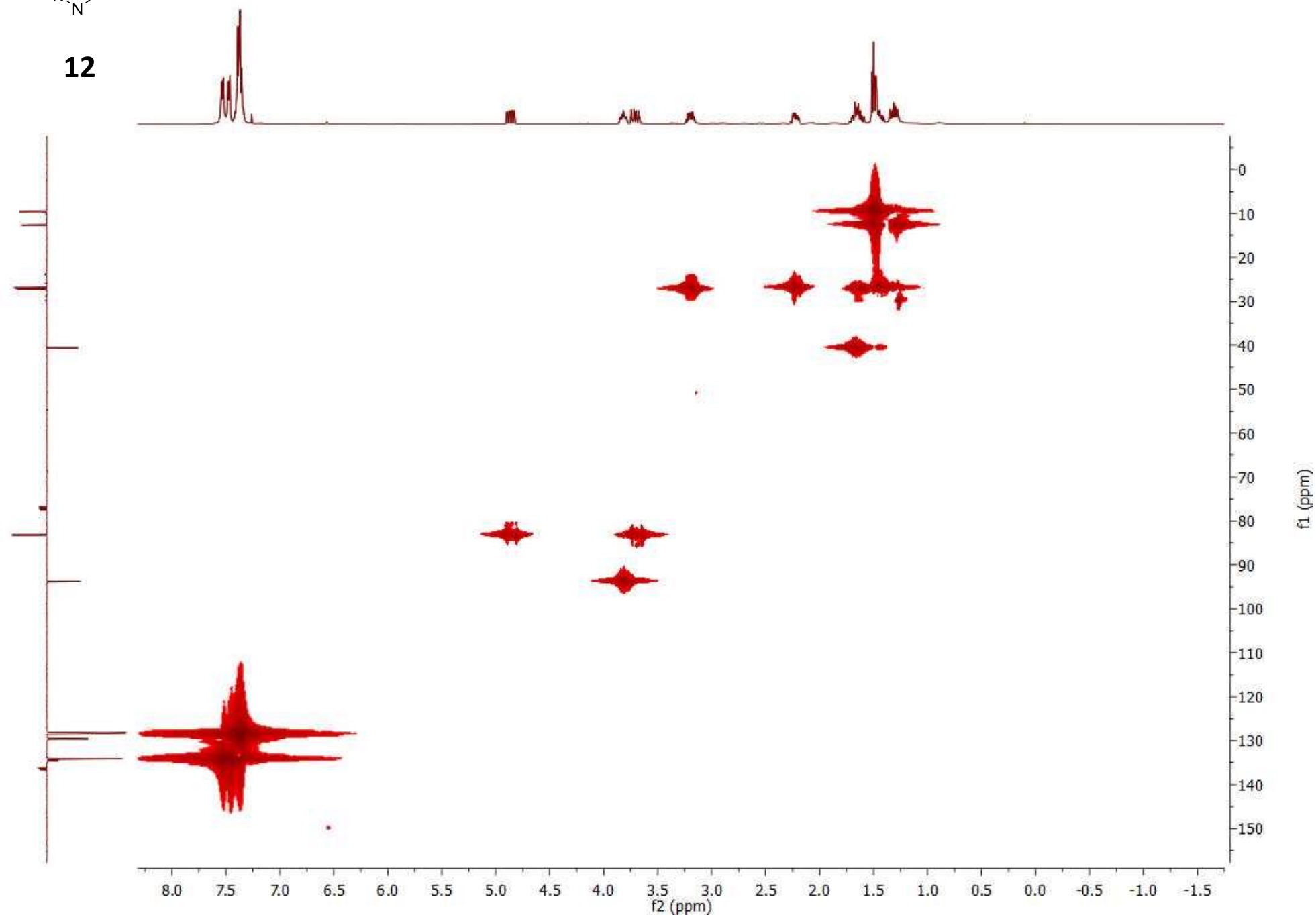
12



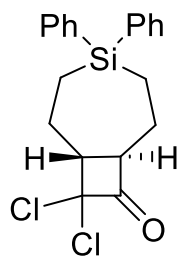
HMQC (400 MHz, CDCl₃)



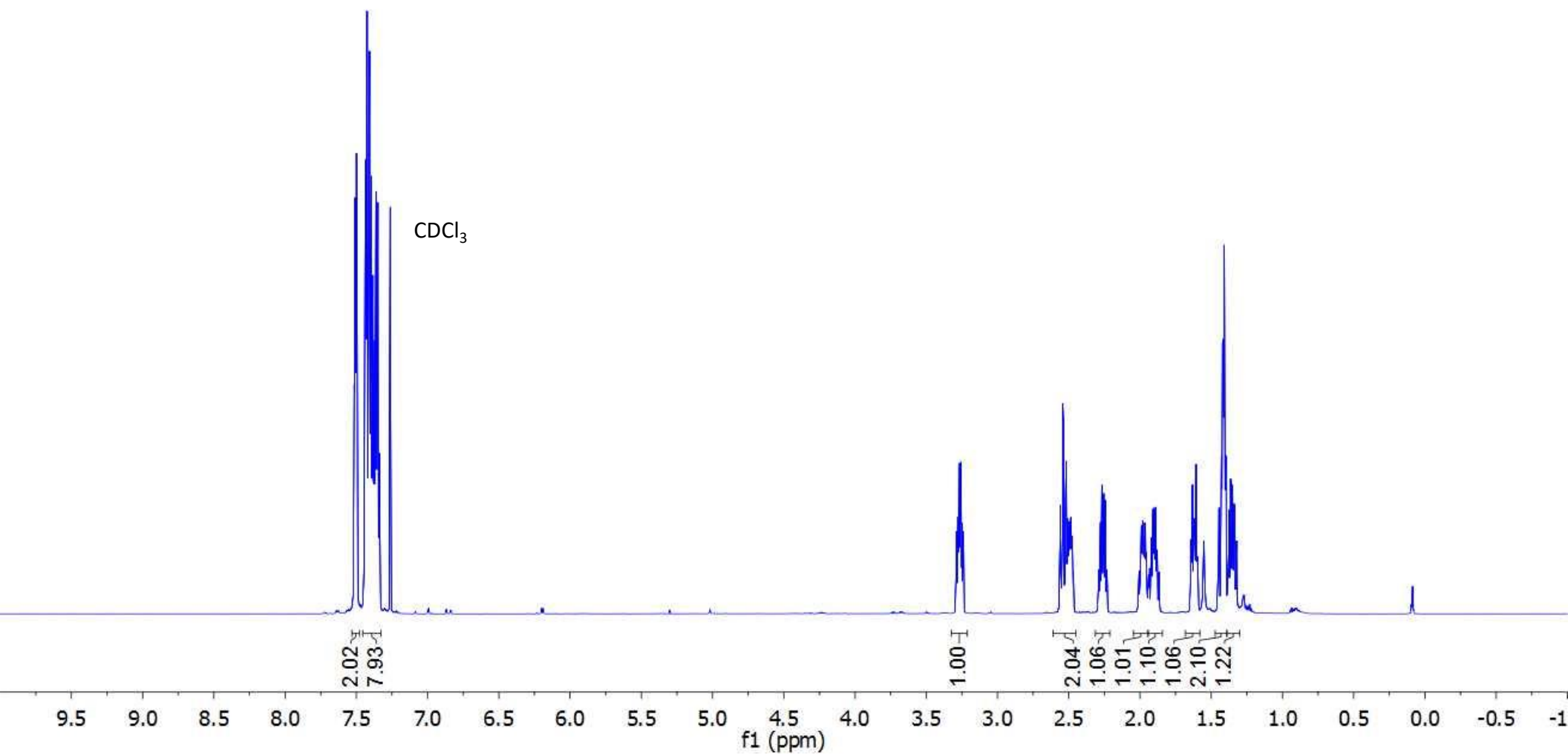
12



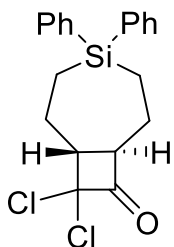
^1H NMR (600 MHz, CDCl_3)



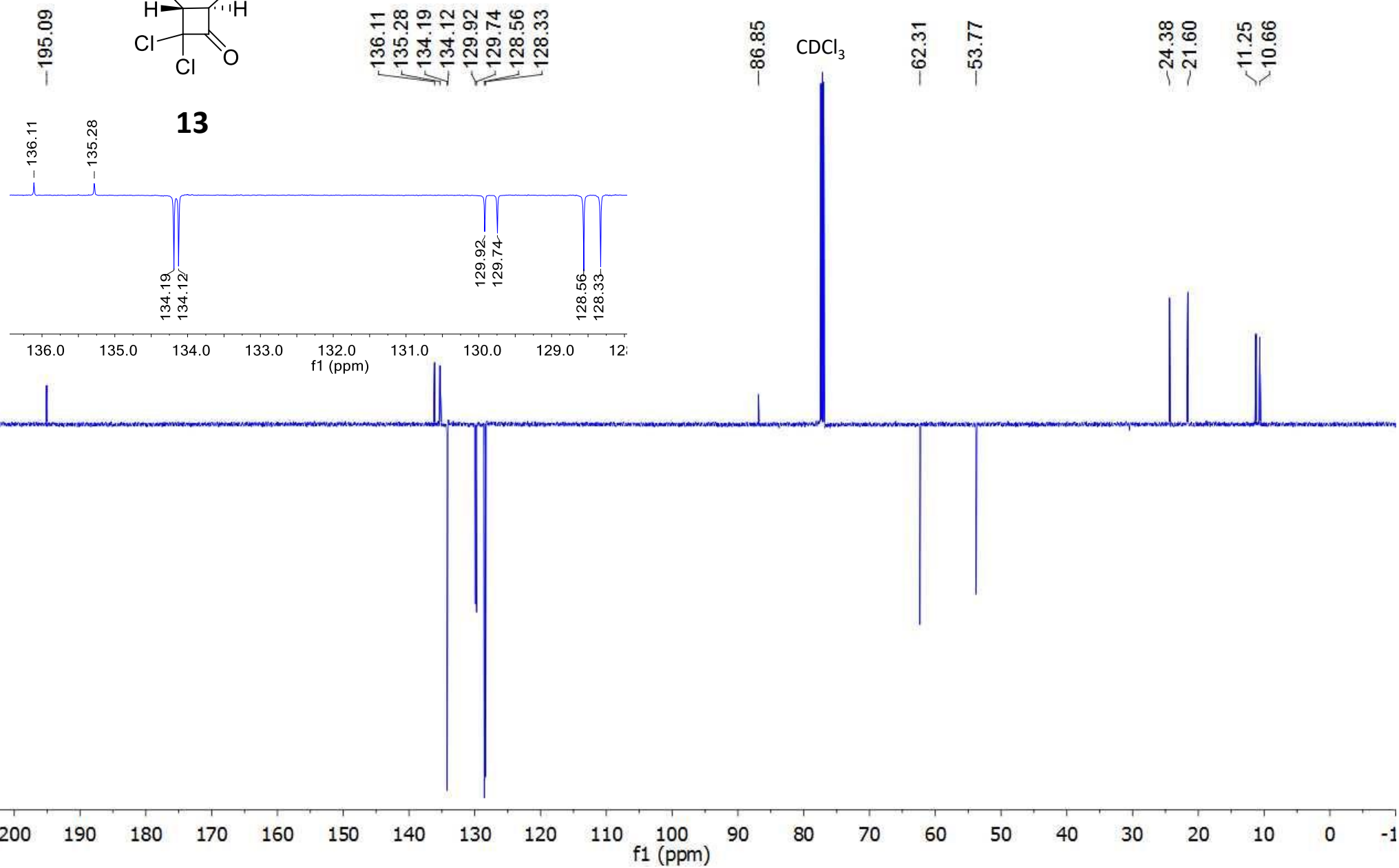
13



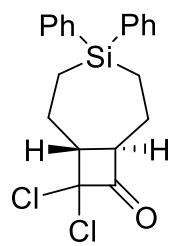
^{13}C NMR (150 MHz, CDCl_3)



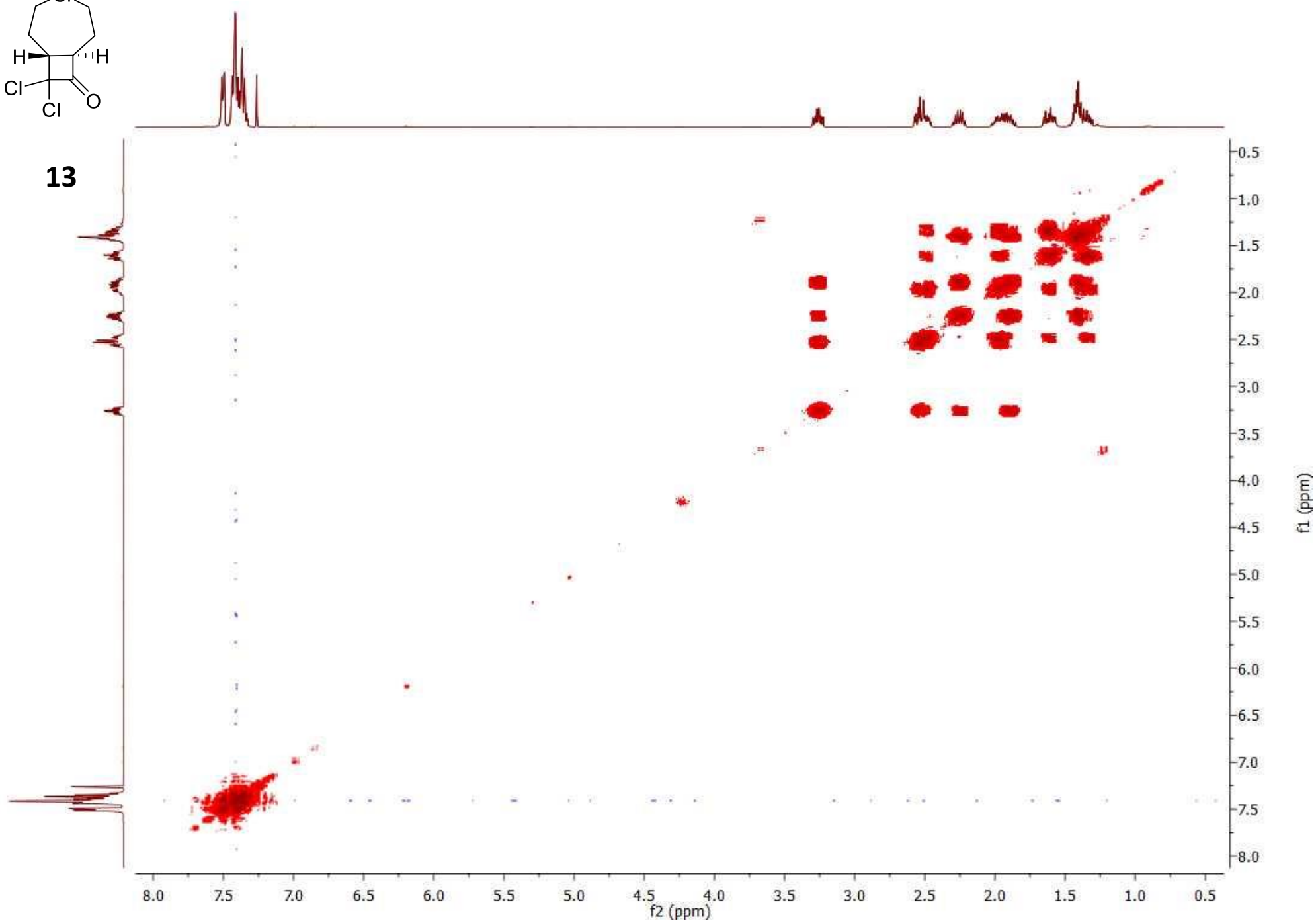
13



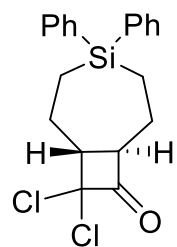
COSY (400 MHz, CDCl₃)



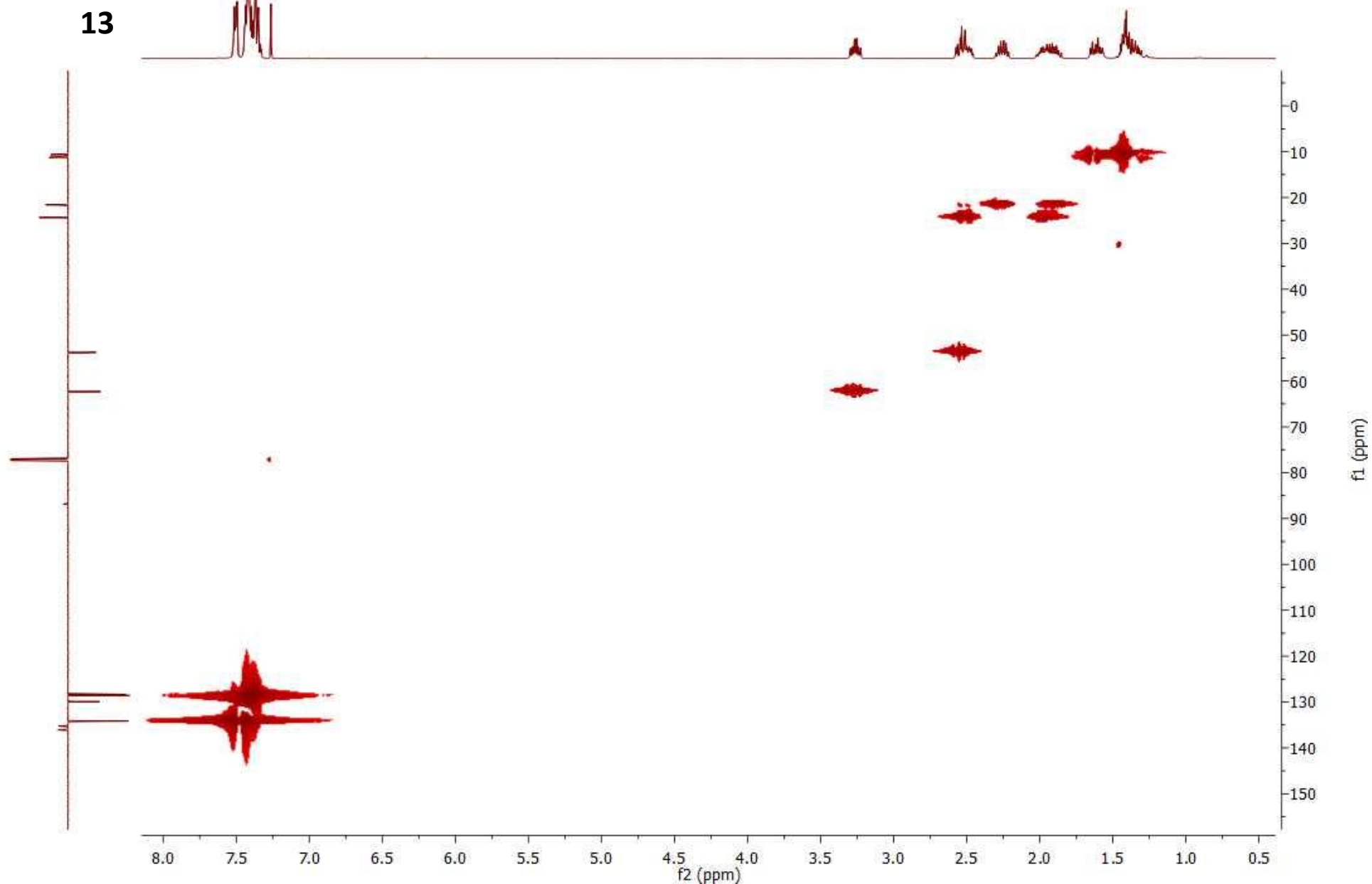
13



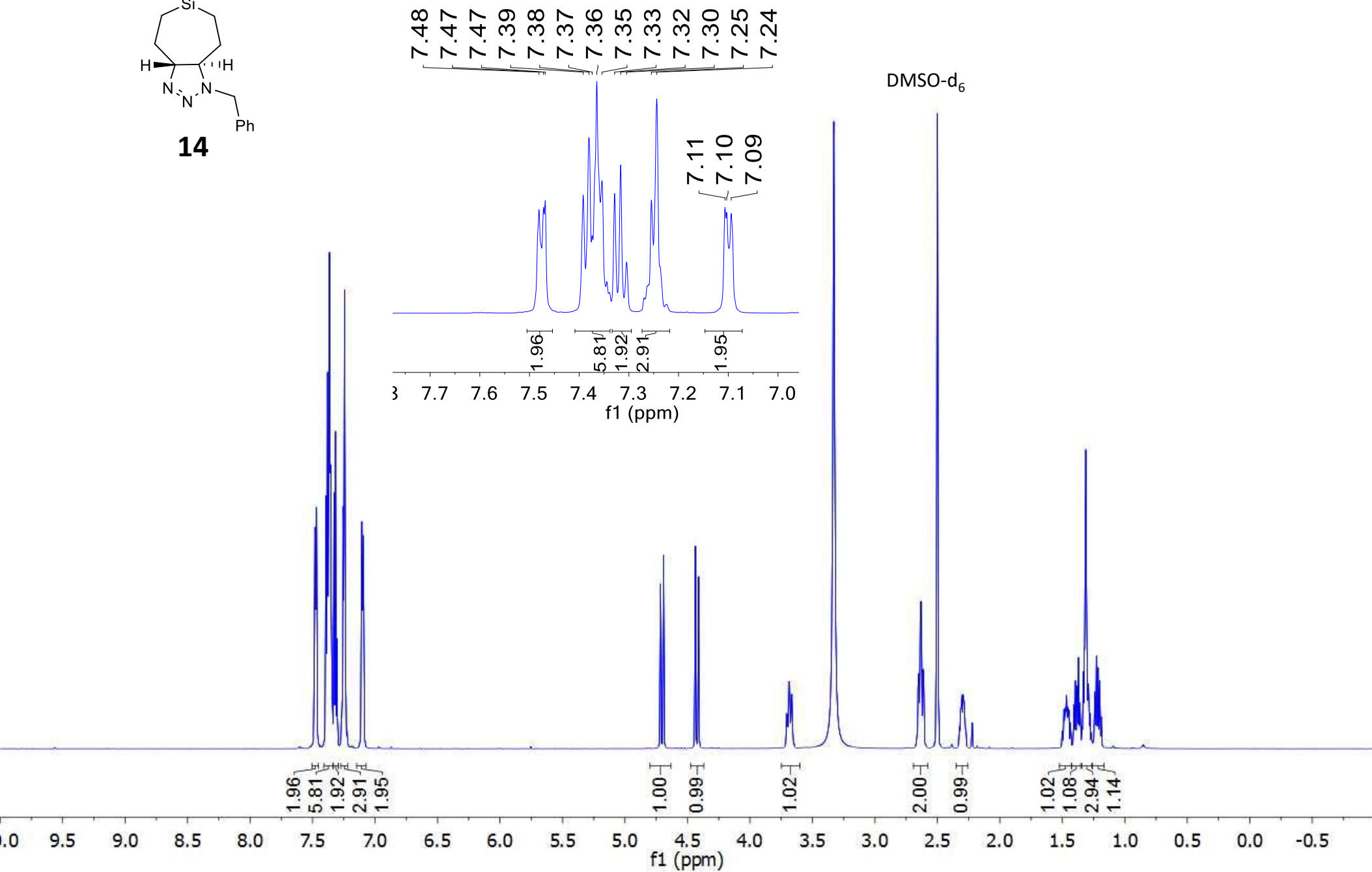
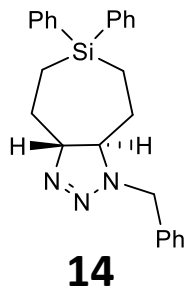
HMQC (400 MHz, CDCl₃)



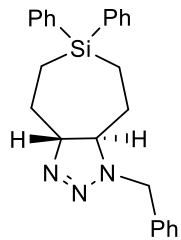
13



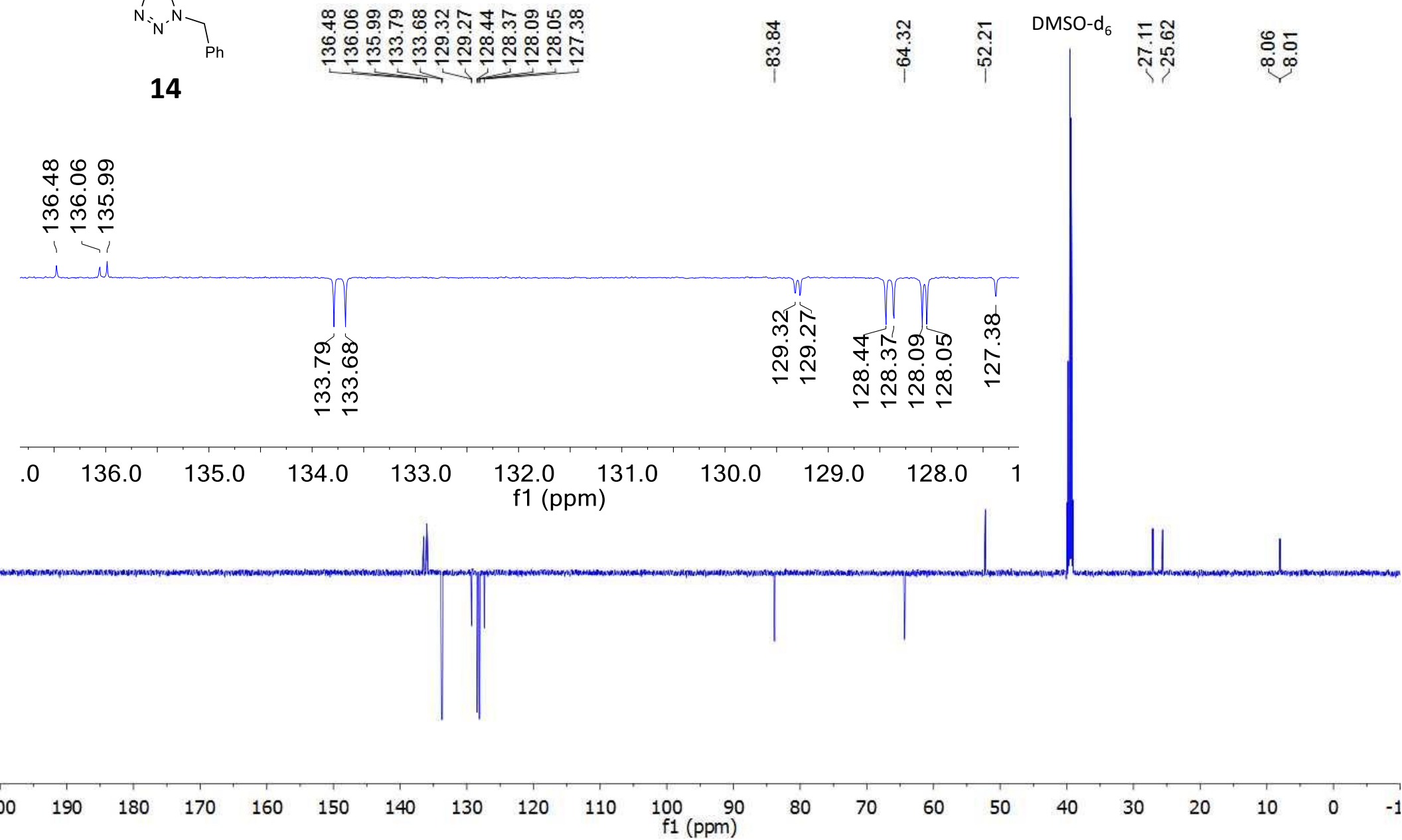
¹H NMR (600 MHz, DMSO-d₆)



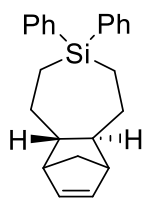
^{13}C NMR (150 MHz, DMSO-d_6)



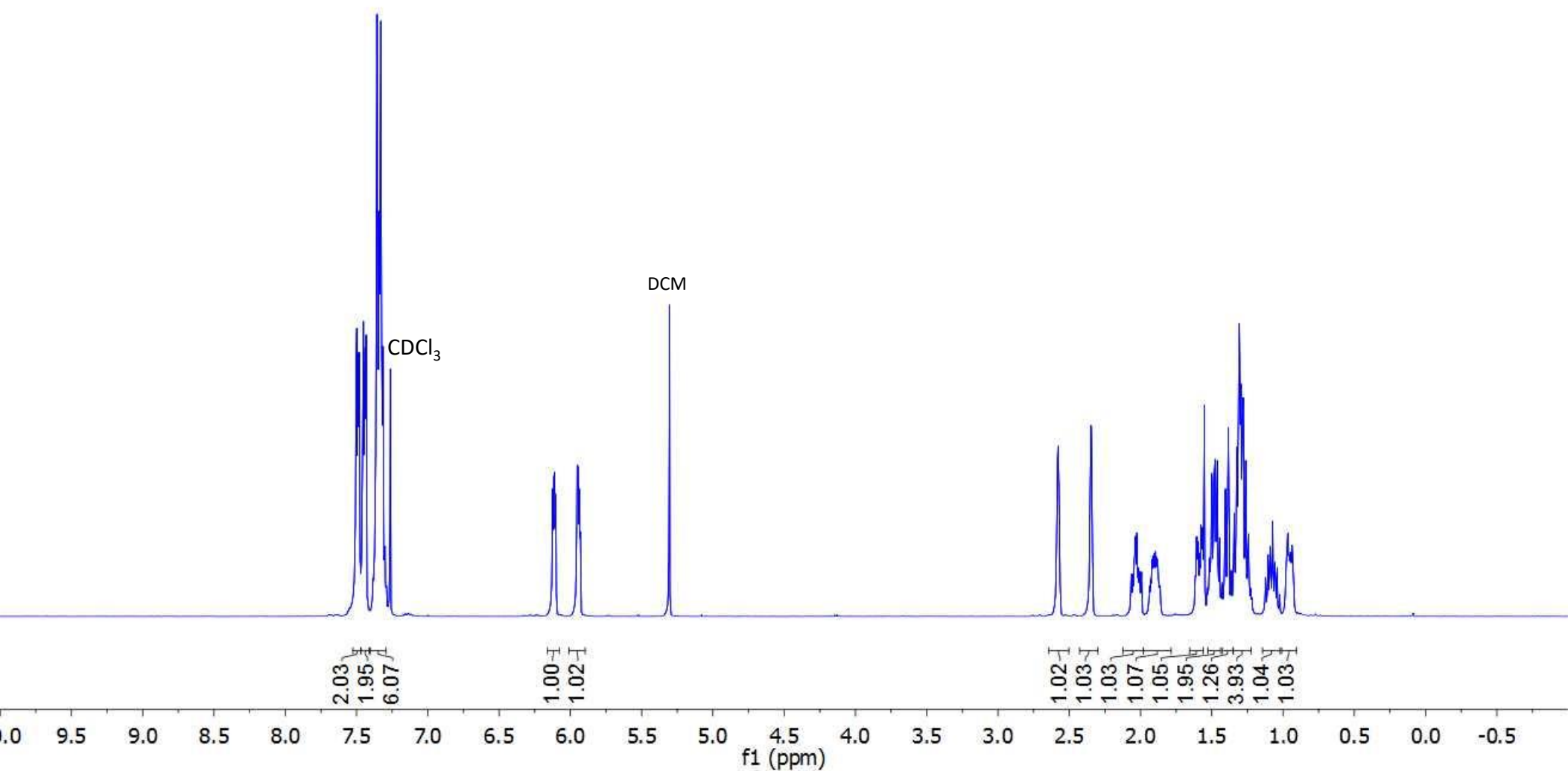
14



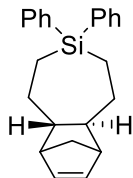
^1H NMR (400 MHz, CDCl_3)



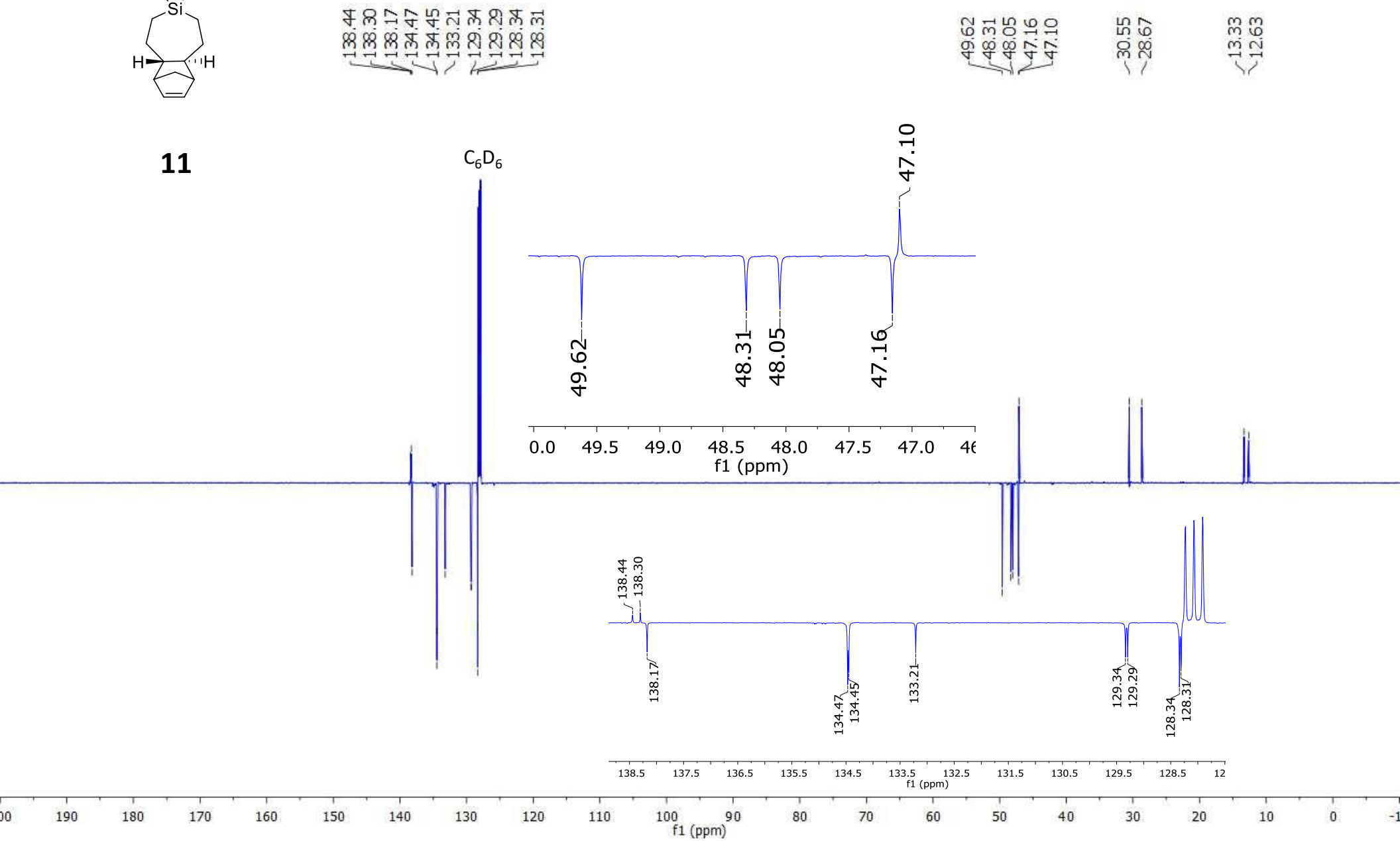
11



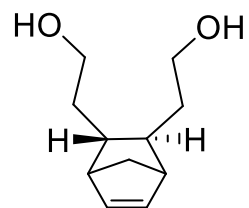
^{13}C NMR (150 MHz, C_6D_6)



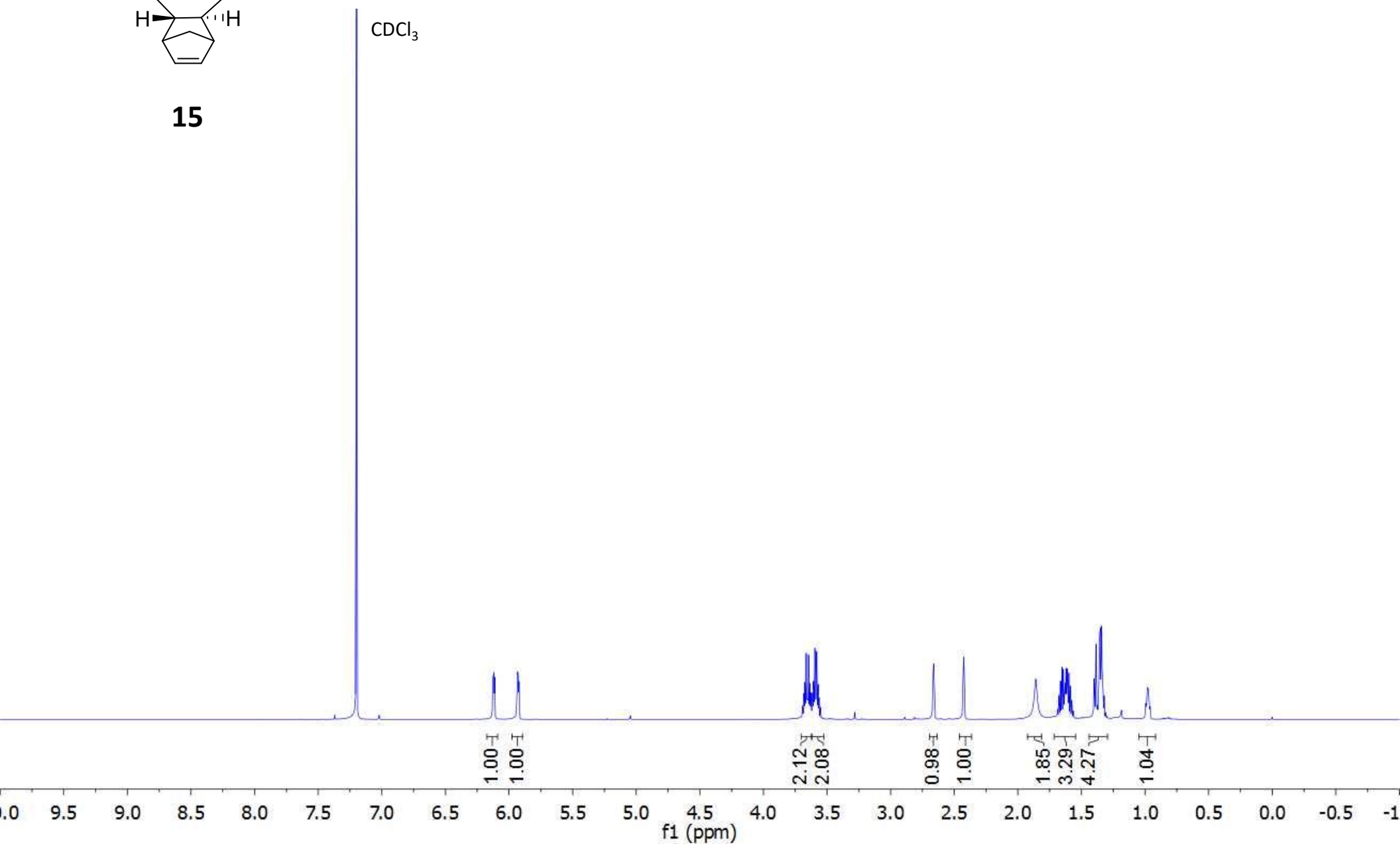
11



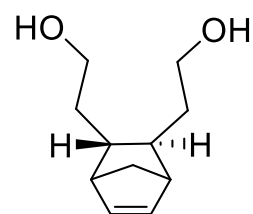
^1H NMR (600 MHz, CDCl_3)



15



^{13}C NMR (100 MHz, CDCl_3)

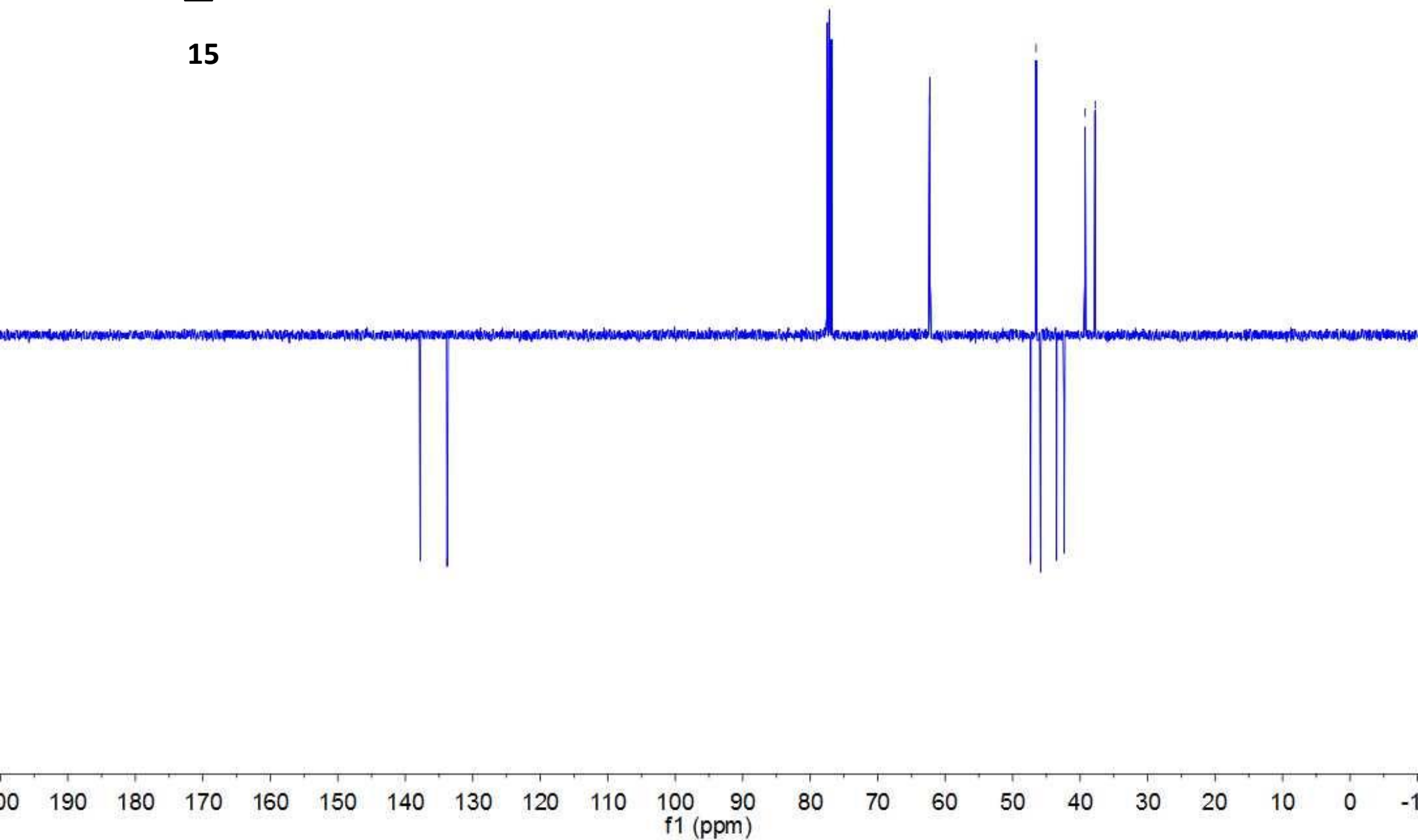


15

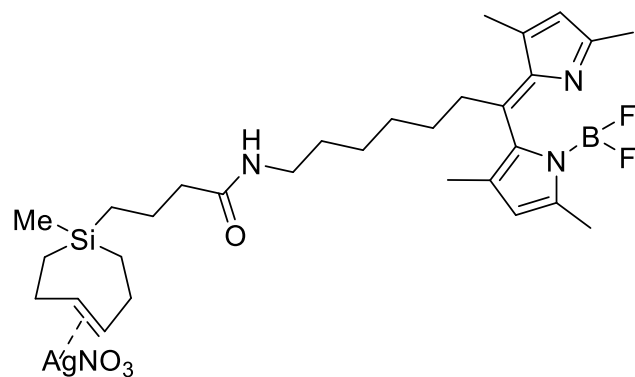
-137.79
-133.79

62.31
62.28
47.35
46.54
45.87
43.50
42.37
39.28
37.77

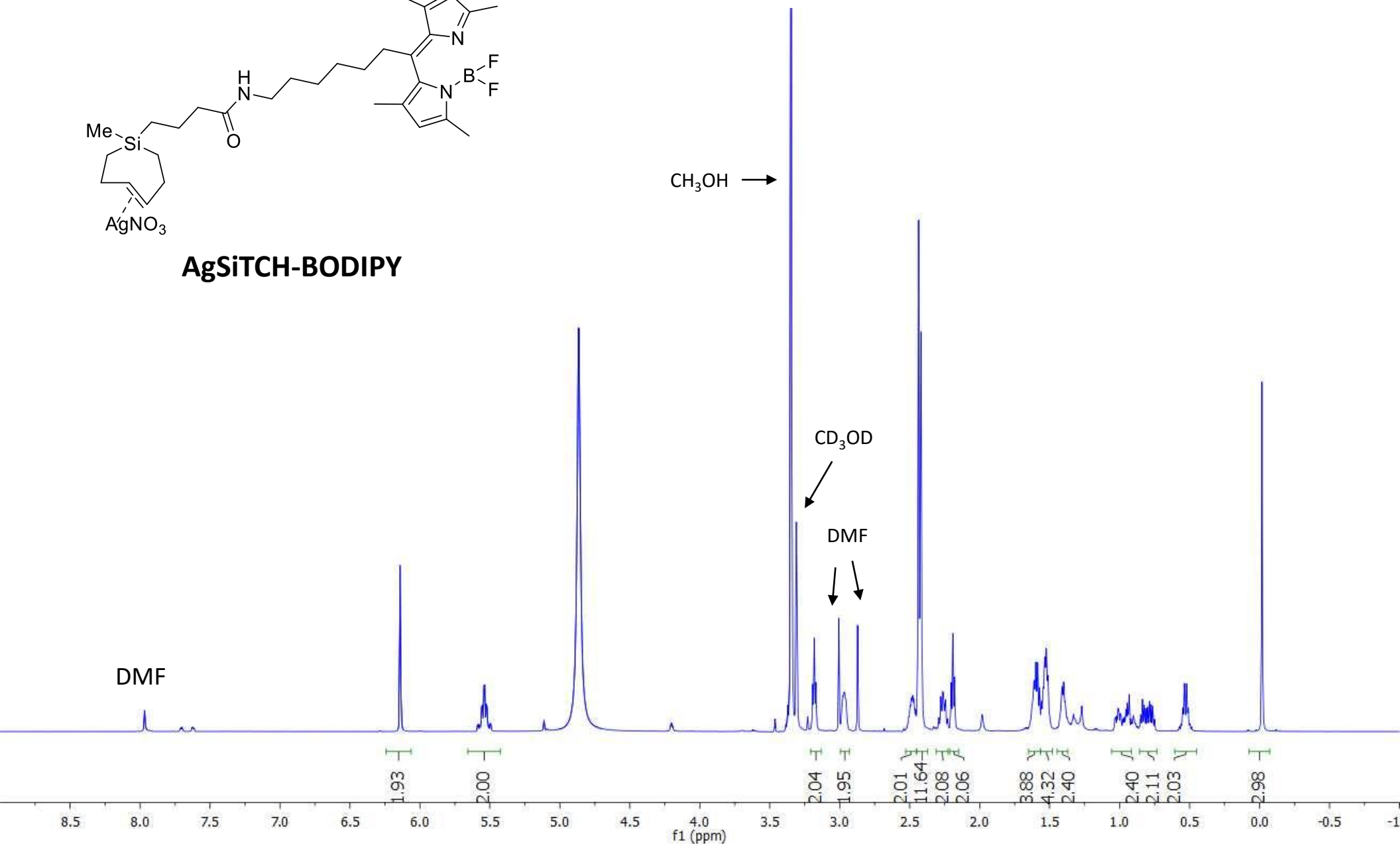
CDCl_3

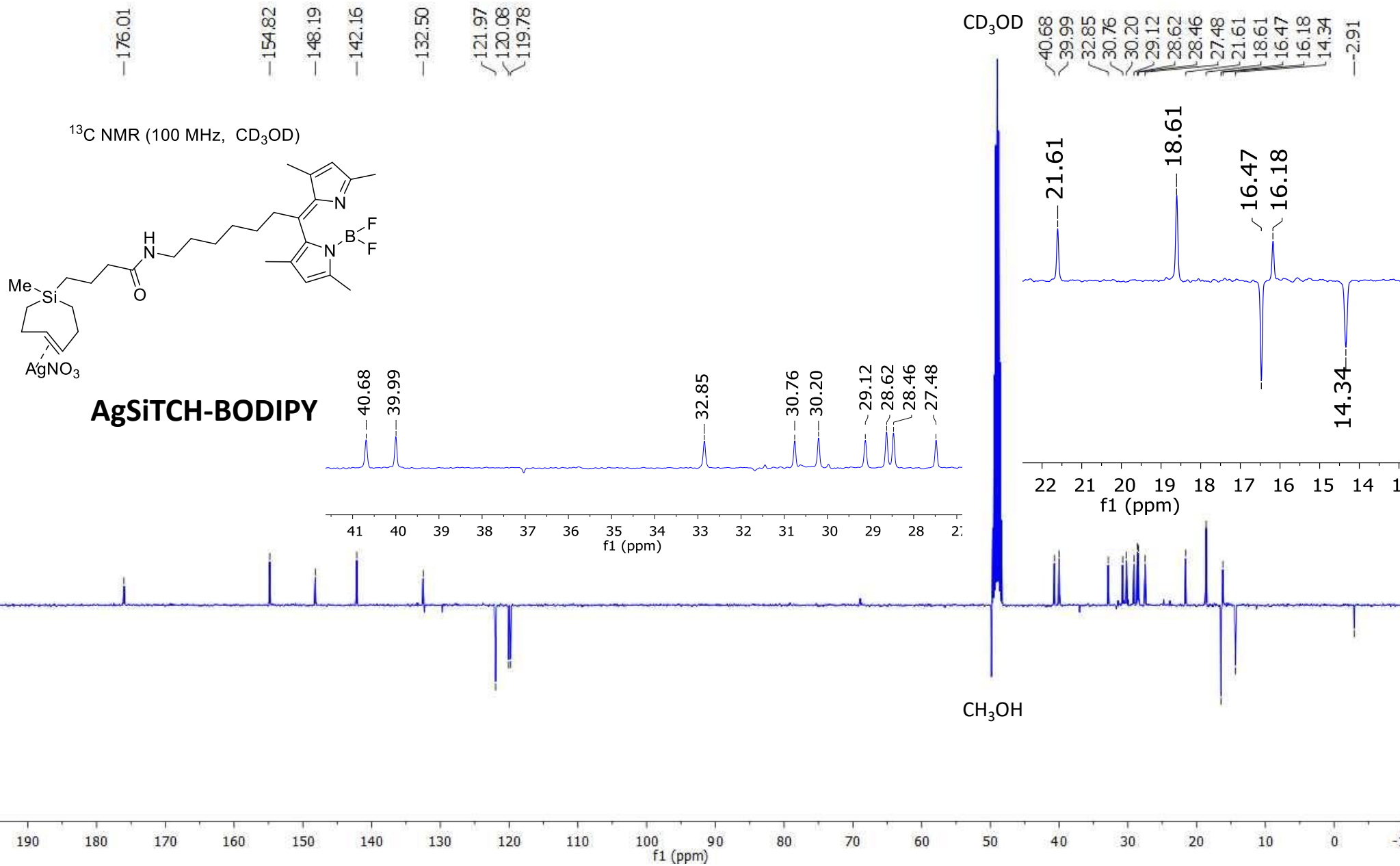


^1H NMR (600 MHz, CD_3OD)

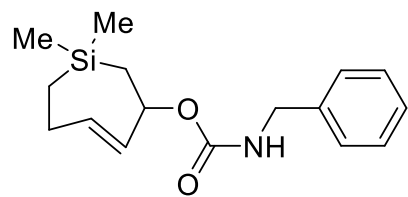


AgSiTCH-BODIPY

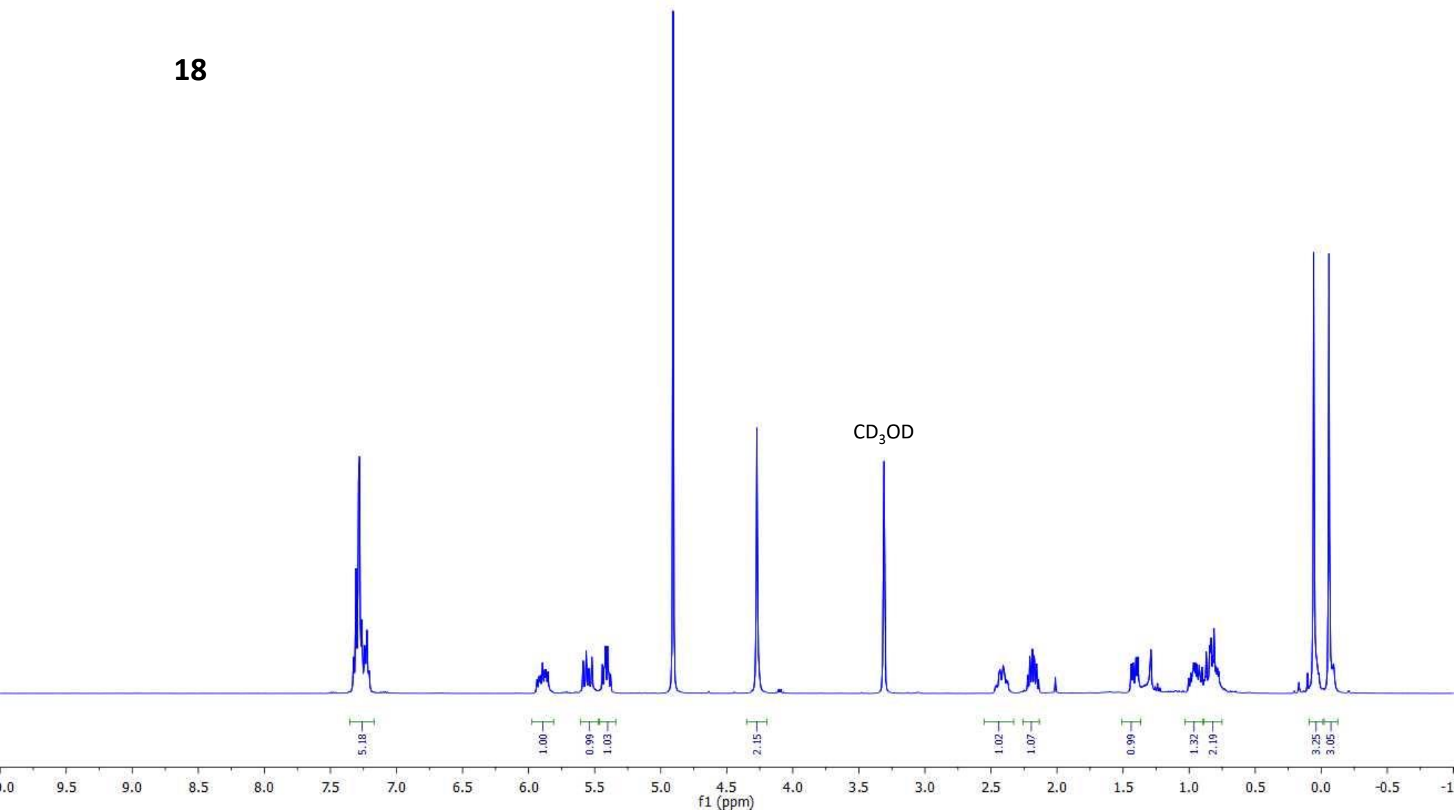




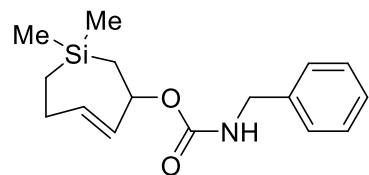
^1H NMR (400 MHz, CD_3OD)



18



^{13}C NMR (100 MHz, CD_3OD)



18

— 158.99

— 140.72

— 136.98

— 131.39

— 129.46

— 128.21

— 128.07

— 76.76

CD_3OD

— 45.29

— 28.28

— 25.82

— 21.50

— 0.72

— 1.22

f1 (ppm)