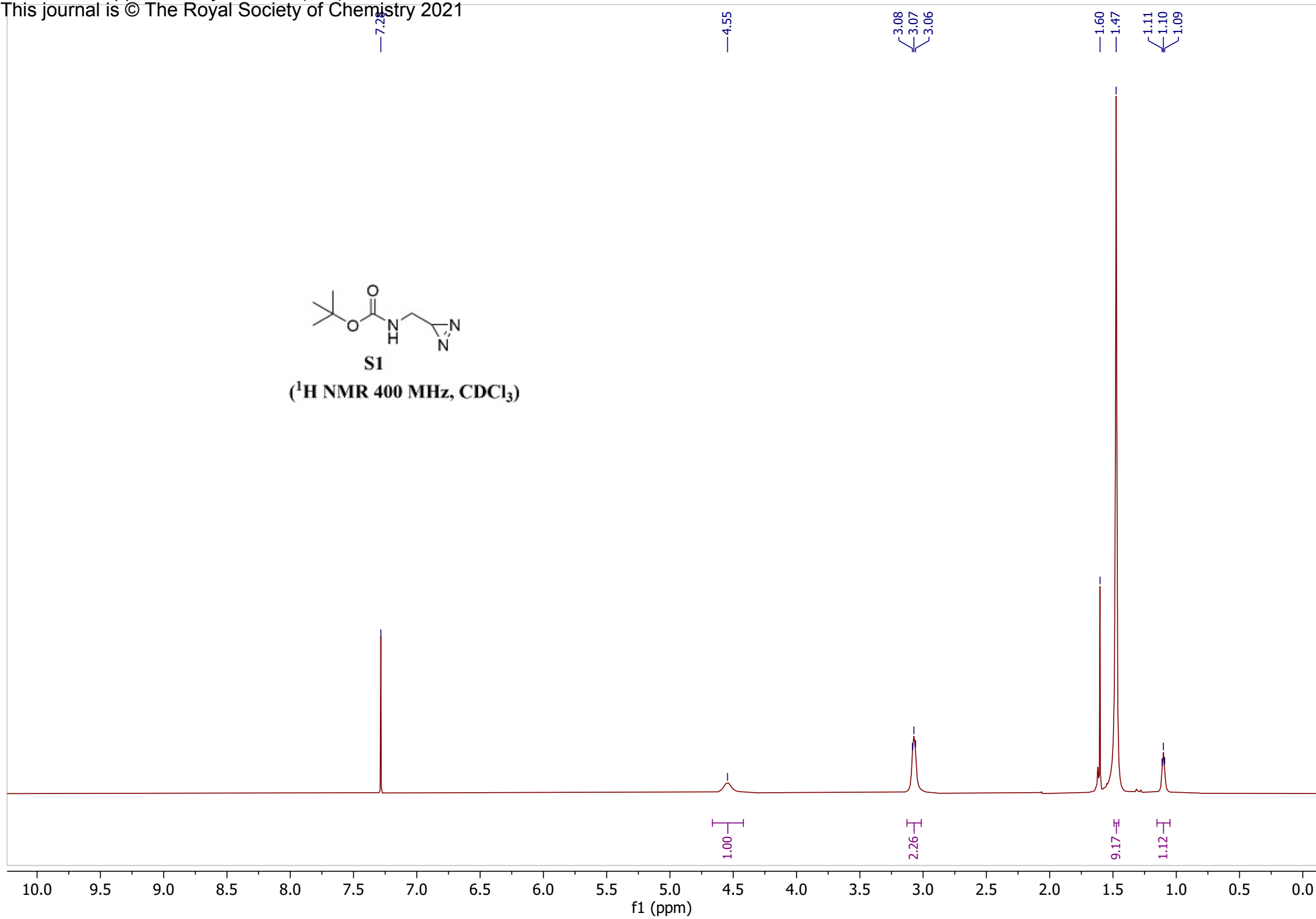
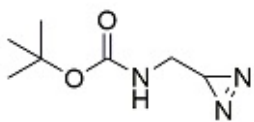


S1

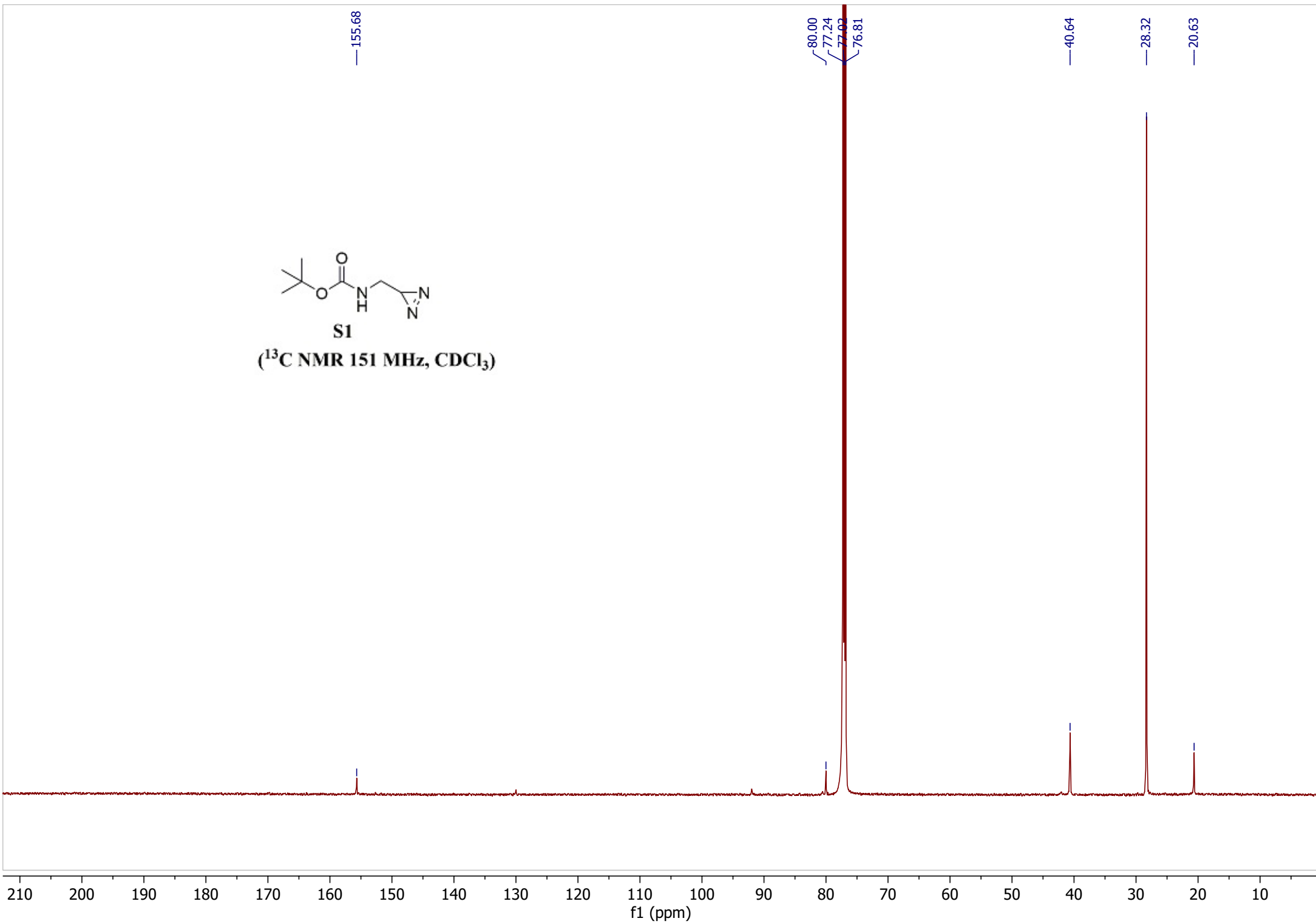
(¹H NMR 400 MHz, CDCl₃)

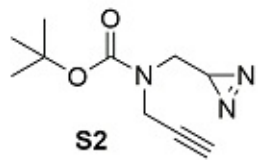




S1

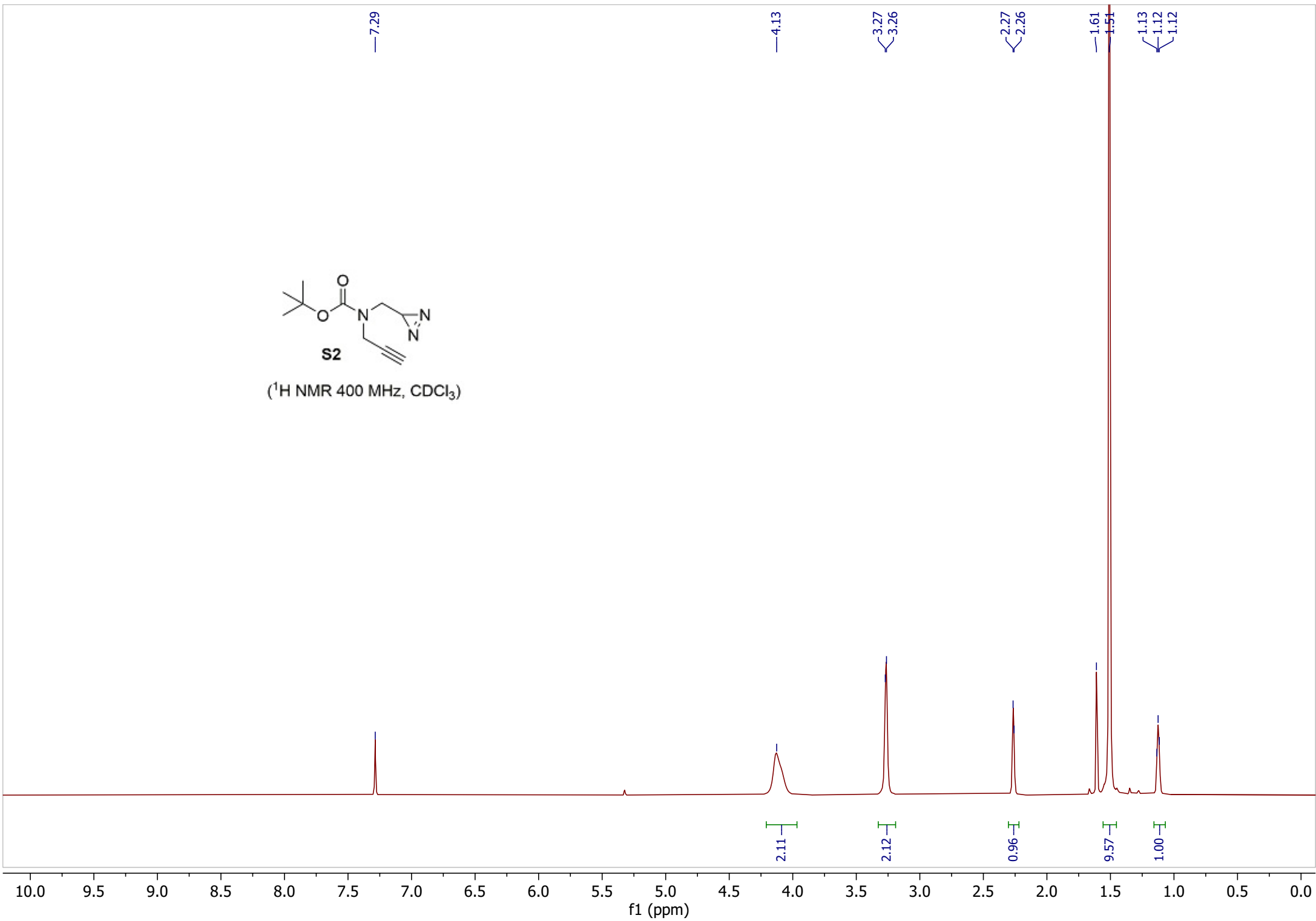
(¹³C NMR 151 MHz, CDCl₃)

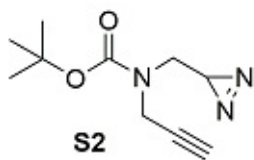




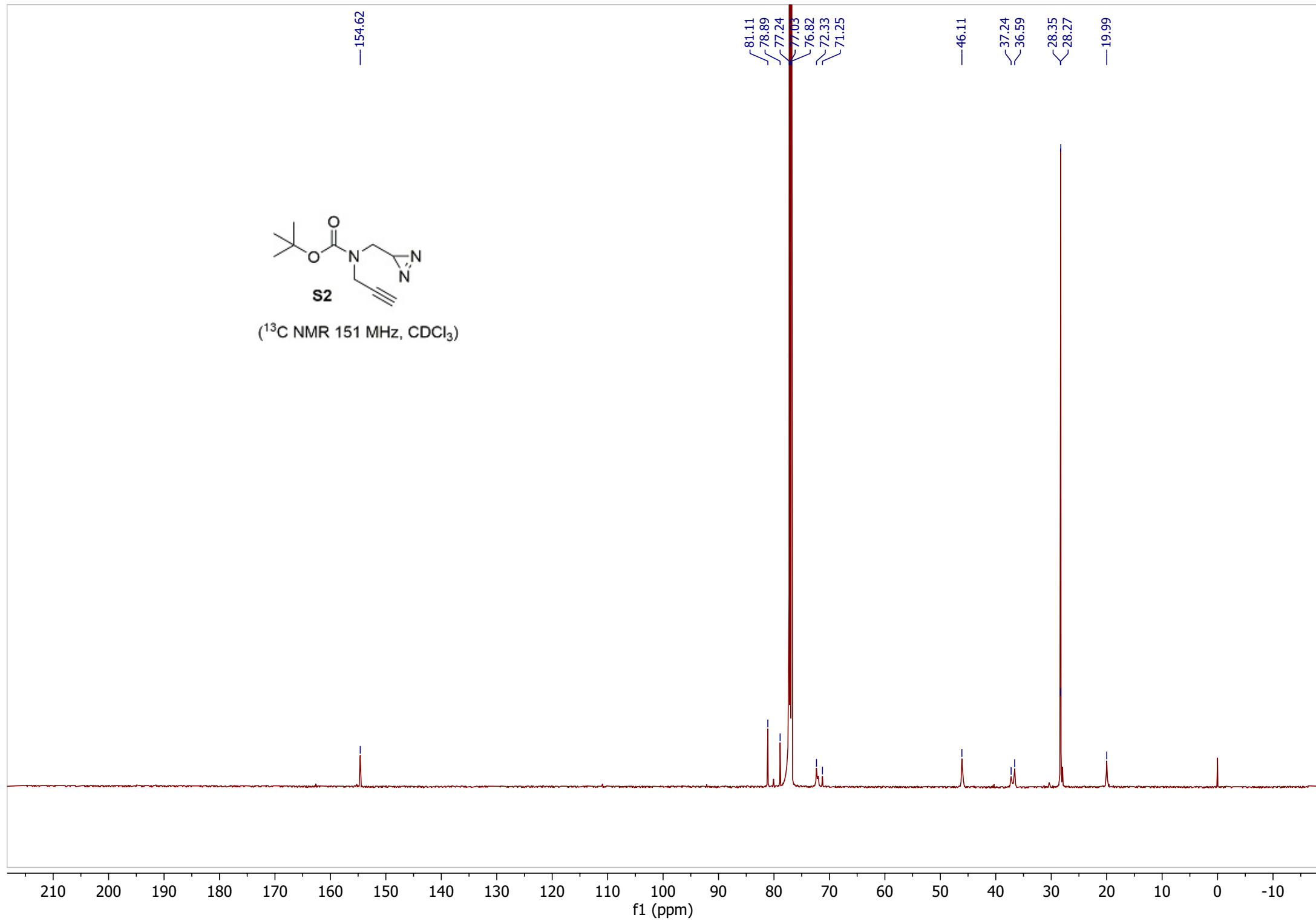
S2

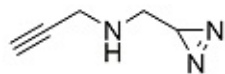
(¹H NMR 400 MHz, CDCl₃)





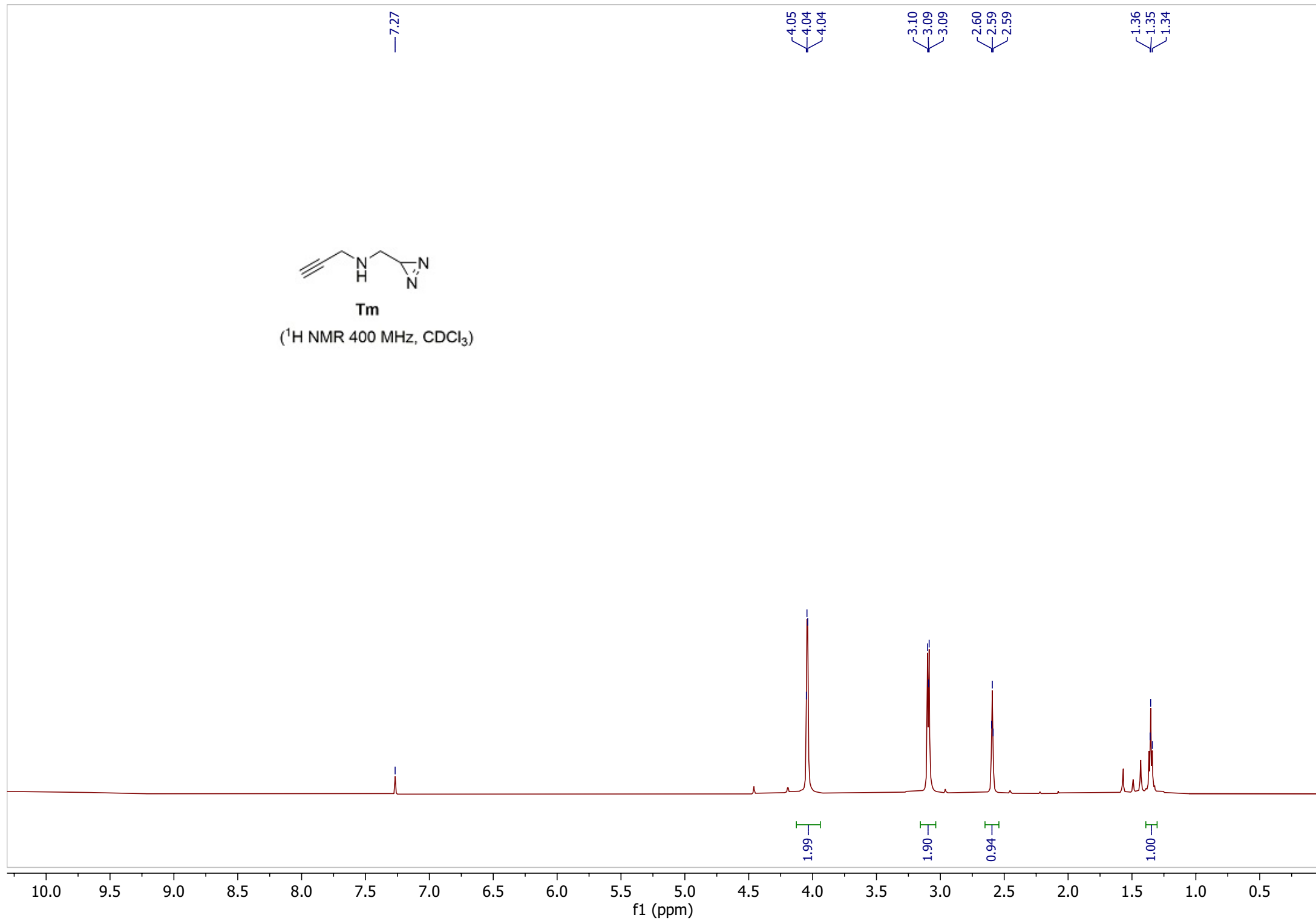
(¹³C NMR 151 MHz, CDCl₃)

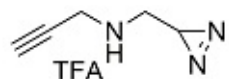




Tm

(¹H NMR 400 MHz, CDCl₃)





TFA

Tm

¹³C NMR (101 MHz, CDCl₃)

162.31
161.92
161.54
161.15

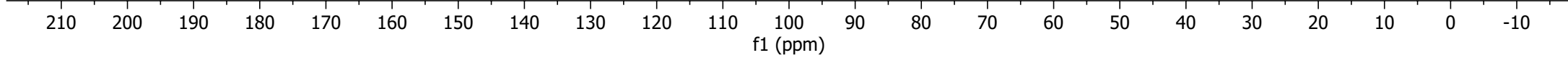
119.78
116.92
114.05
111.19

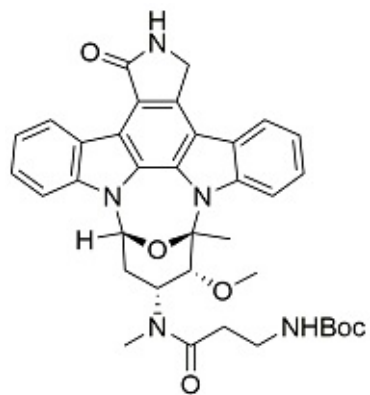
78.70
77.33
77.02
76.70
71.60

47.56

36.37

16.09





S3

¹H NMR (600 MHz, CDCl₃)

9.36
9.35
7.81
7.81
7.80
7.80
7.65
7.63
7.41
7.40
7.38
7.37
7.37
7.36
7.36
7.35
7.34
7.34
7.30
7.29
7.28
7.26
7.25
7.24
7.19
7.14
7.13
6.77
6.59
6.58
6.58
6.56

5.28
5.27
5.26
5.12
5.12
5.11
5.11
5.10
5.10
5.09
5.09
4.94
4.91
4.90
4.88

3.91
3.90
3.49
3.49
3.45
3.44
3.43
3.42
3.41
3.40
3.40
3.39
3.39
3.38
3.37
3.36
3.36
2.72
2.48
2.47
2.46
2.45
2.39
2.36
1.38

1.00

1.01

1.02

0.95

1.13

1.06

0.99

1.01

0.85

0.98

0.90

1.00

2.03

0.94

2.03

3.02

3.60

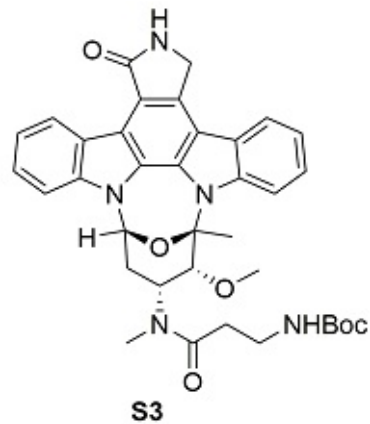
3.05

3.09

8.97

10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5

f1 (ppm)



^{13}C NMR (151 MHz, CDCl_3)

172.29
171.55

154.95

137.51
135.44
131.44
129.39
125.64
125.19
124.38
123.92
123.58
122.52
120.41
119.46
119.00
118.02
115.17
113.47
111.25
106.62

93.50

83.73

81.36

78.21

76.18 CDCl_3

75.96 CDCl_3

75.75 CDCl_3

59.35

54.18

47.44

44.91

35.17

33.33

30.11

28.63

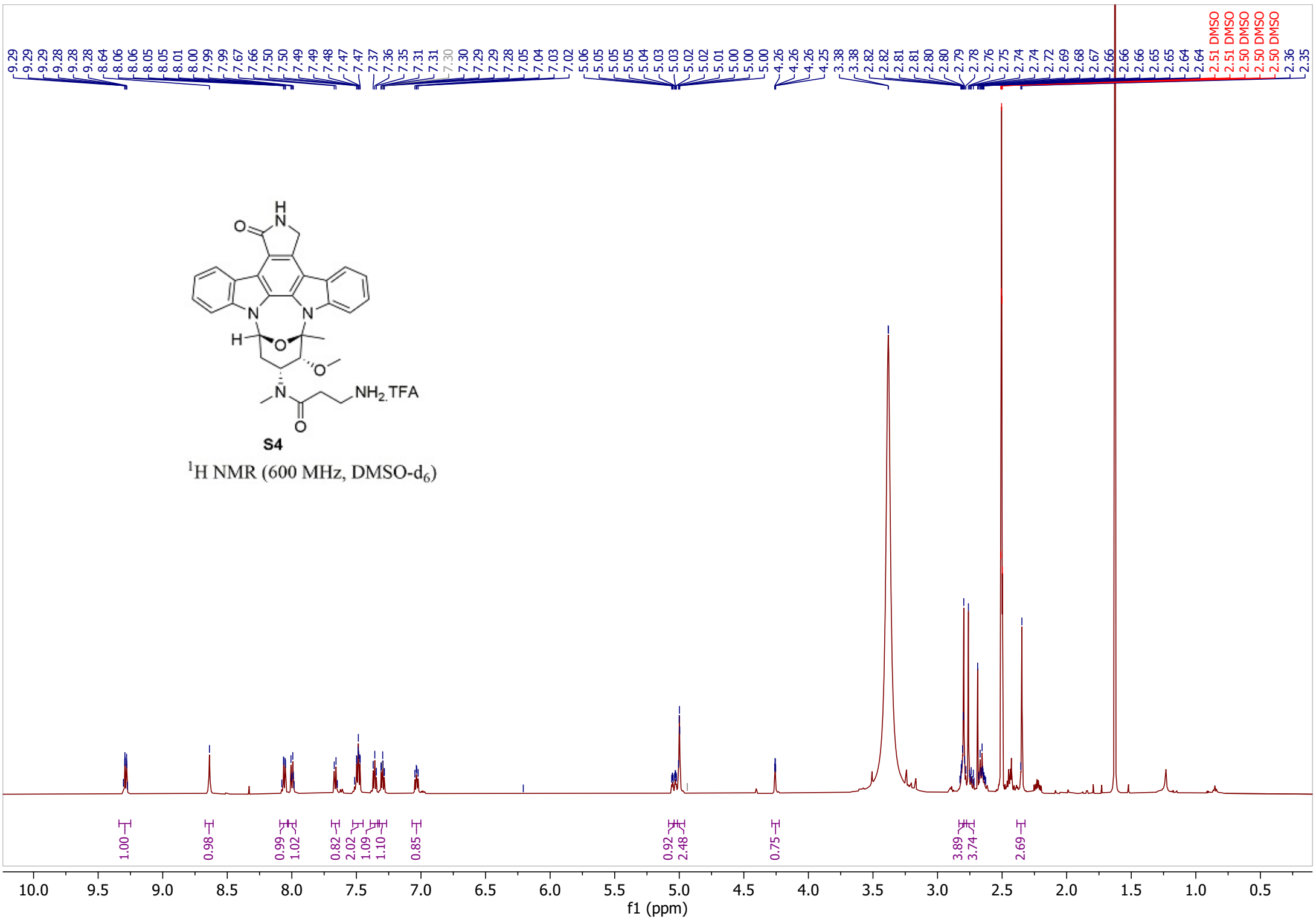
28.05

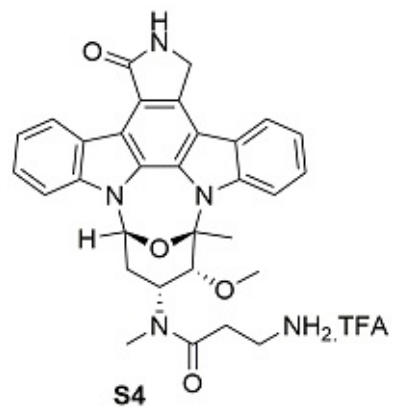
27.38

26.96

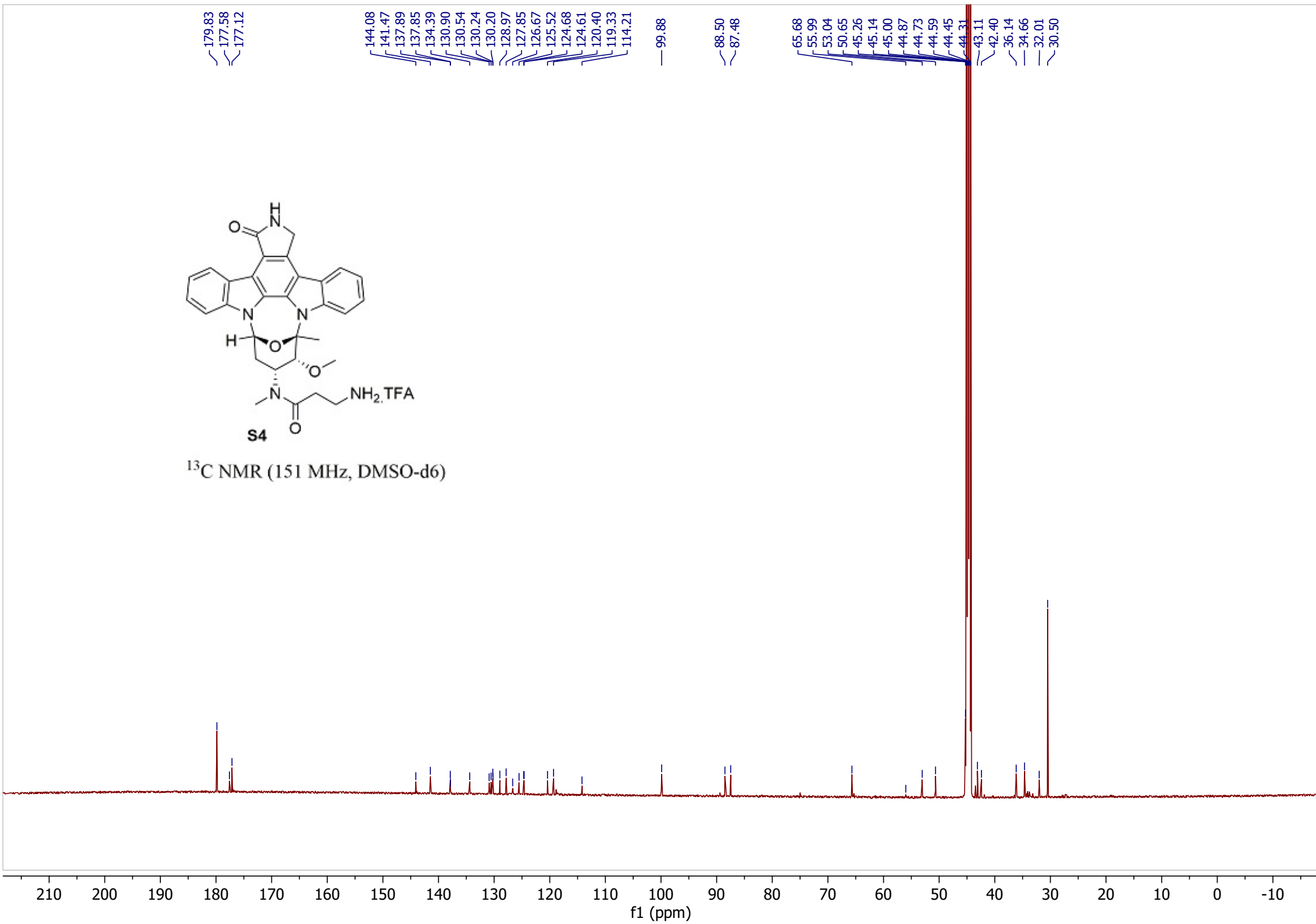
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10

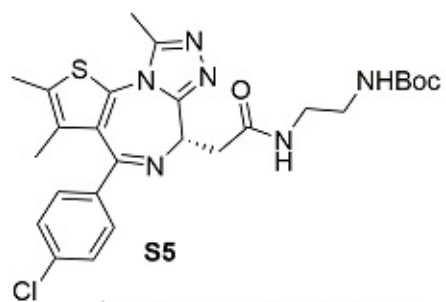
f1 (ppm)



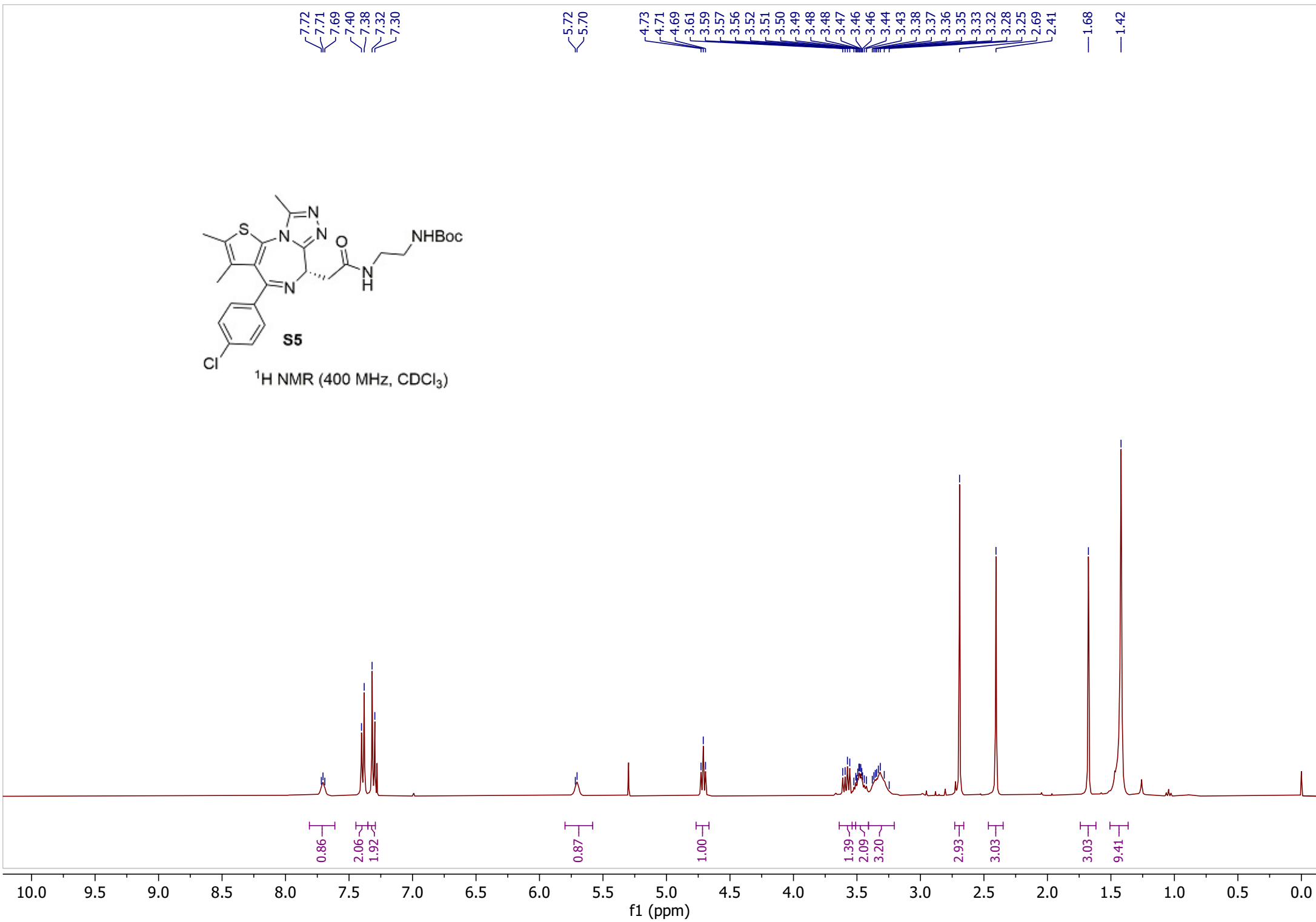


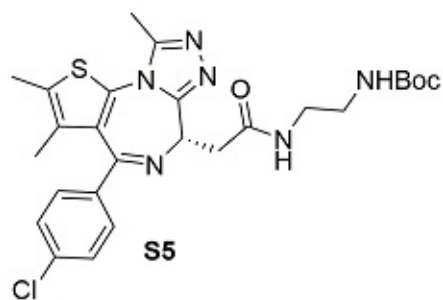
^{13}C NMR (151 MHz, DMSO-d₆)





¹H NMR (400 MHz, CDCl₃)





¹³C NMR (151 MHz, CDCl₃)

171.08
163.88
156.38
155.80
149.94
136.75
136.56
132.00
130.98
130.90
130.63
129.99
129.89
128.69

79.13
77.39
77.07
76.75

54.31

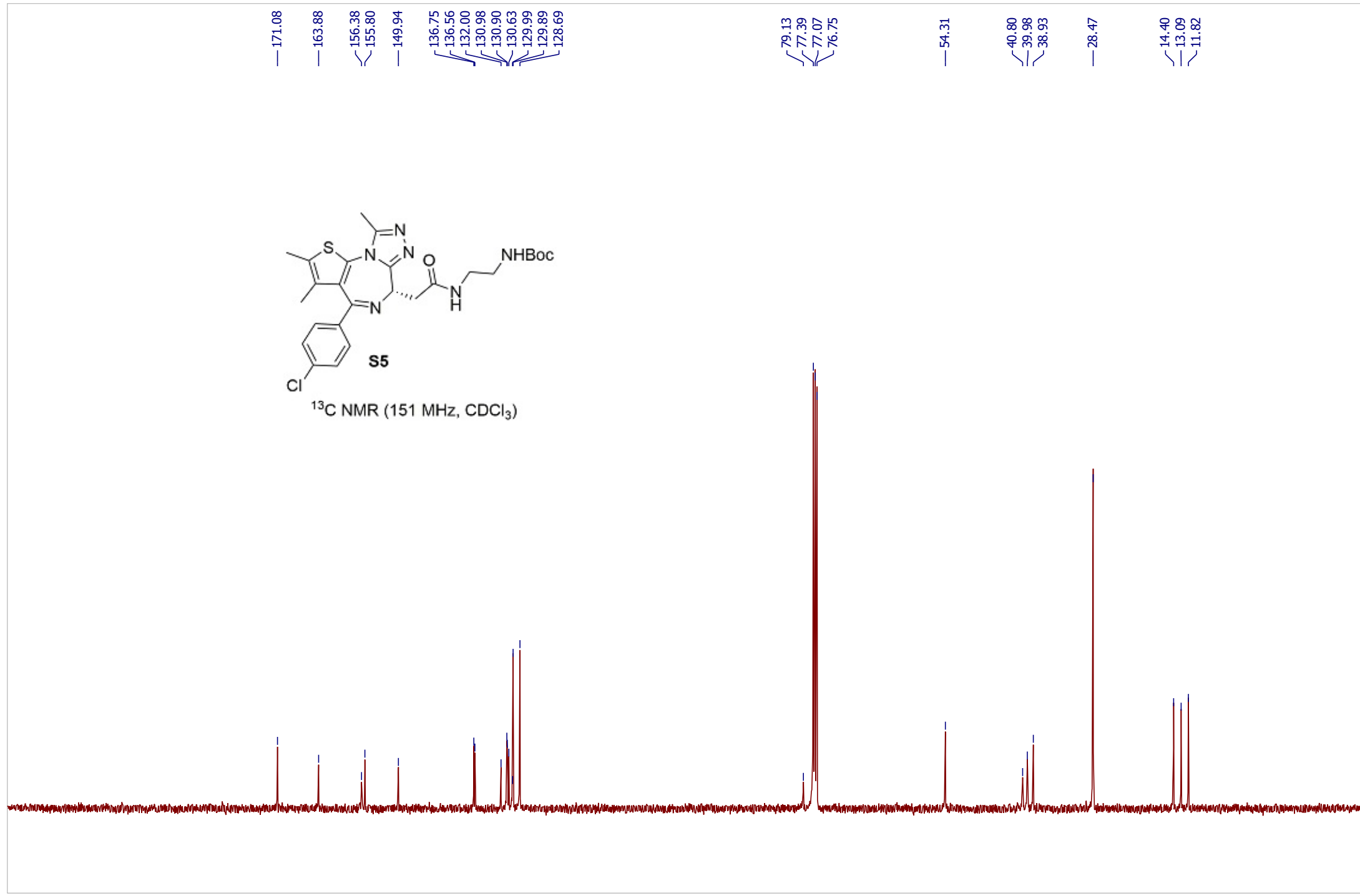
40.80
39.98
38.93

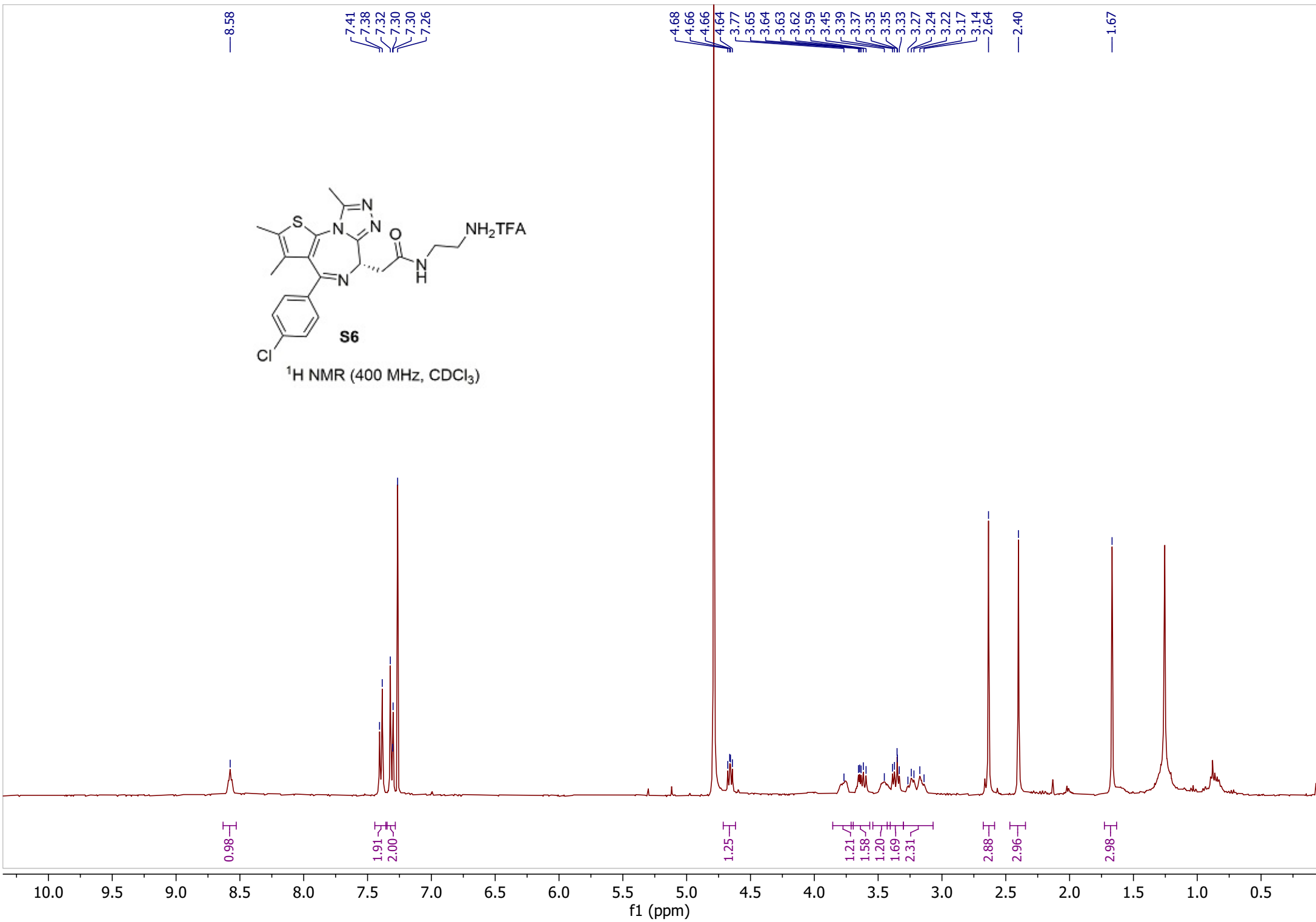
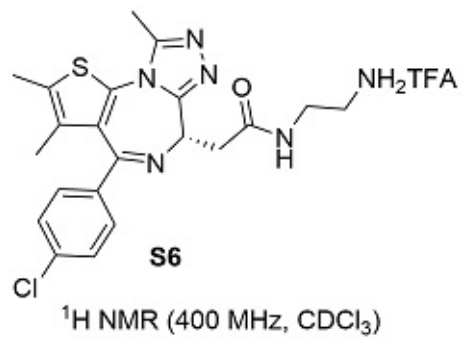
28.47

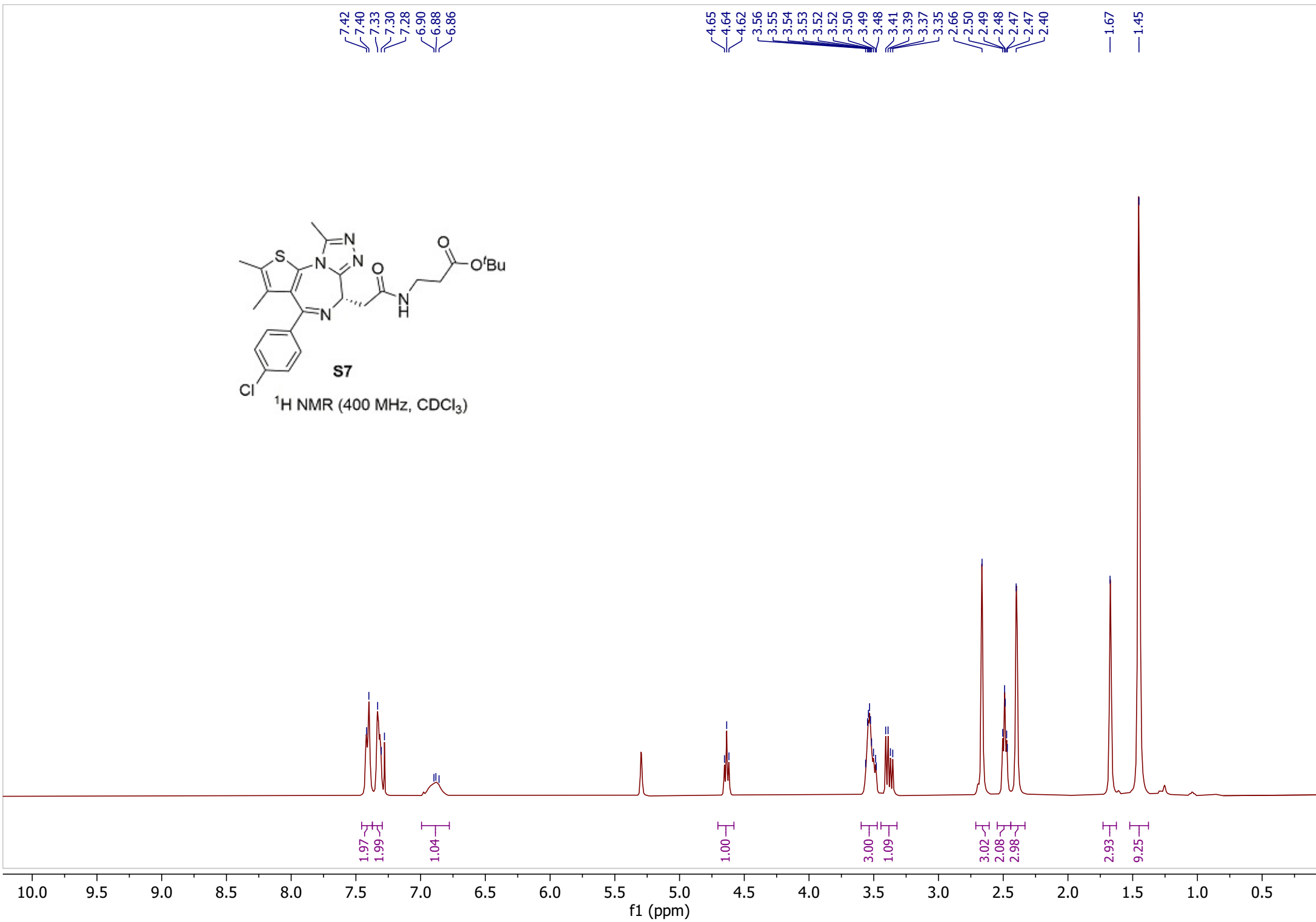
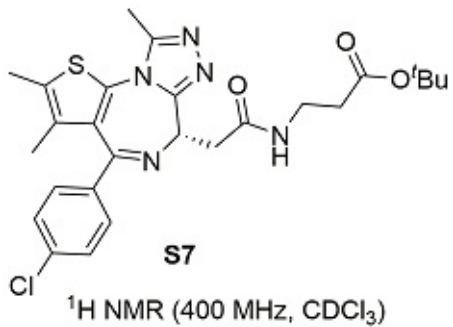
14.40
13.09
11.82

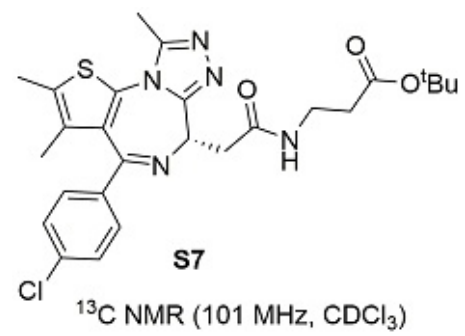
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10

f1 (ppm)









171.47
170.43
163.83
155.68
149.85
136.72
136.64
132.17
130.91
130.74
130.46
129.86
128.69

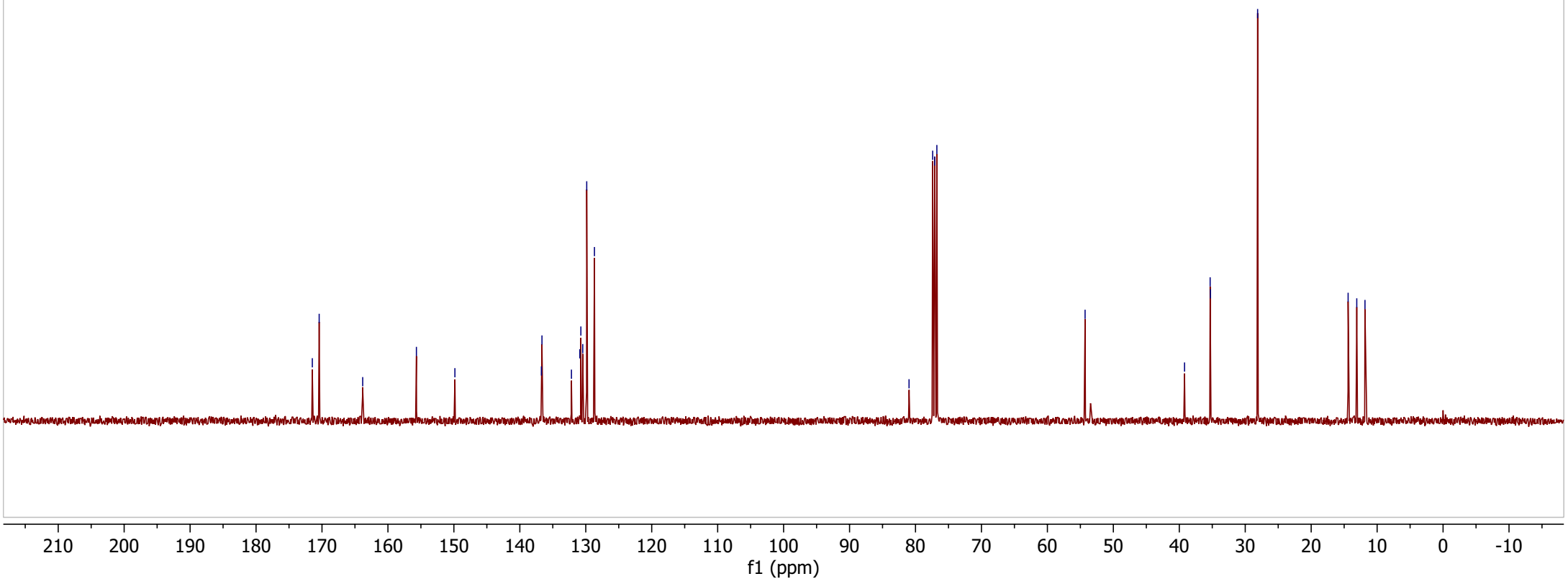
80.98
77.40
77.09
76.76

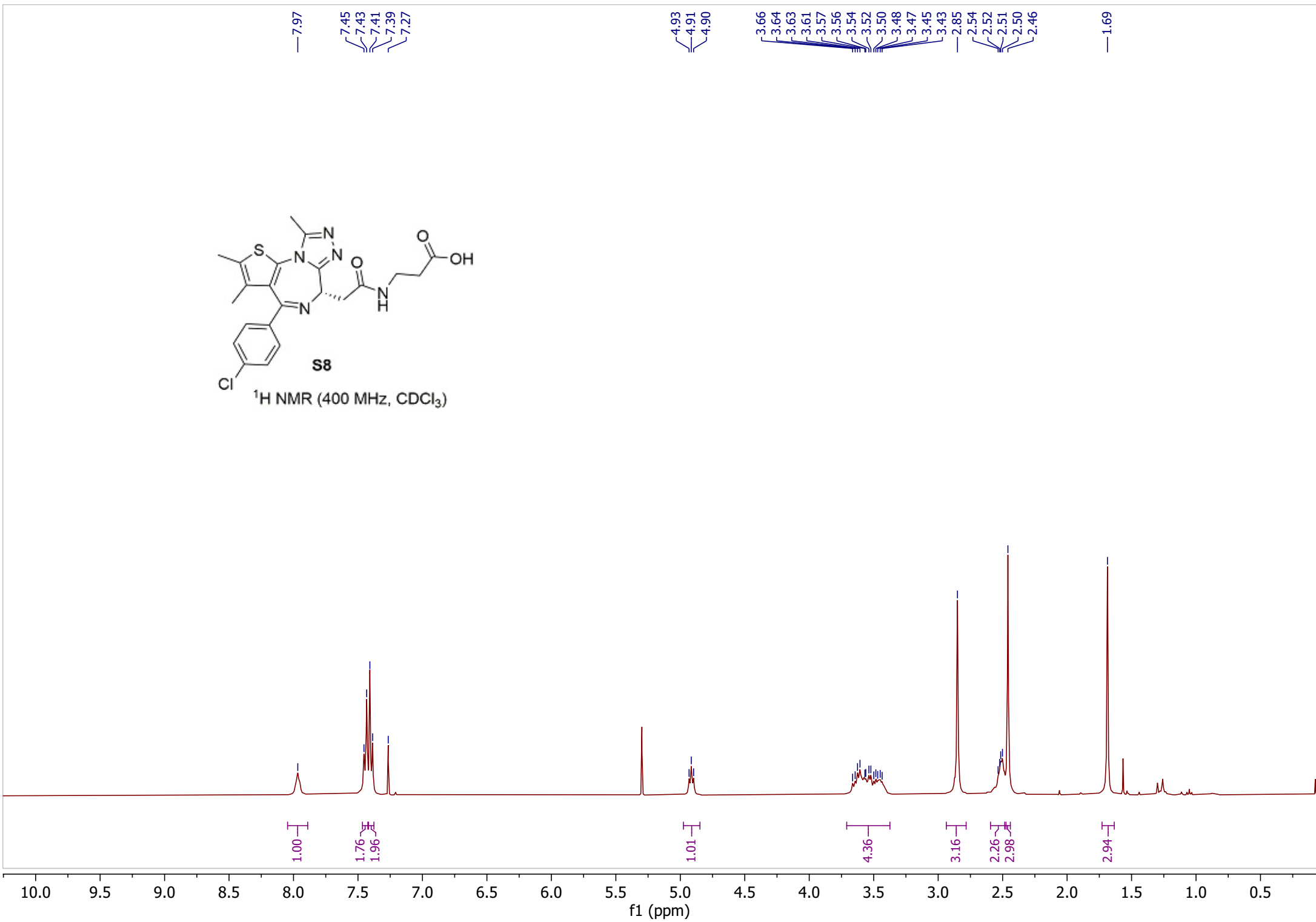
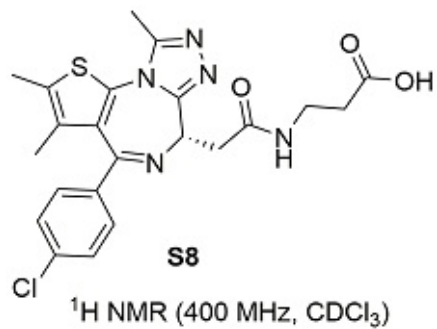
54.28

39.20
35.32
35.27

28.12

14.40
13.09
11.84





175.32
170.72
167.57

160.39
160.00
154.33
151.31

139.49
134.30
133.21
132.14
130.75
130.03
129.33

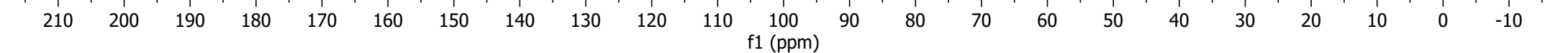
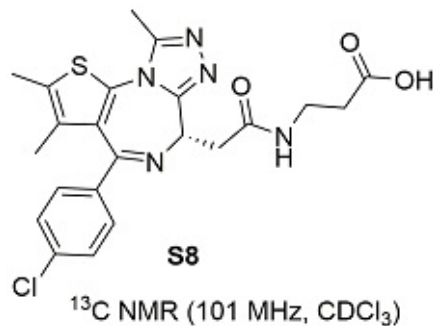
116.68
113.82

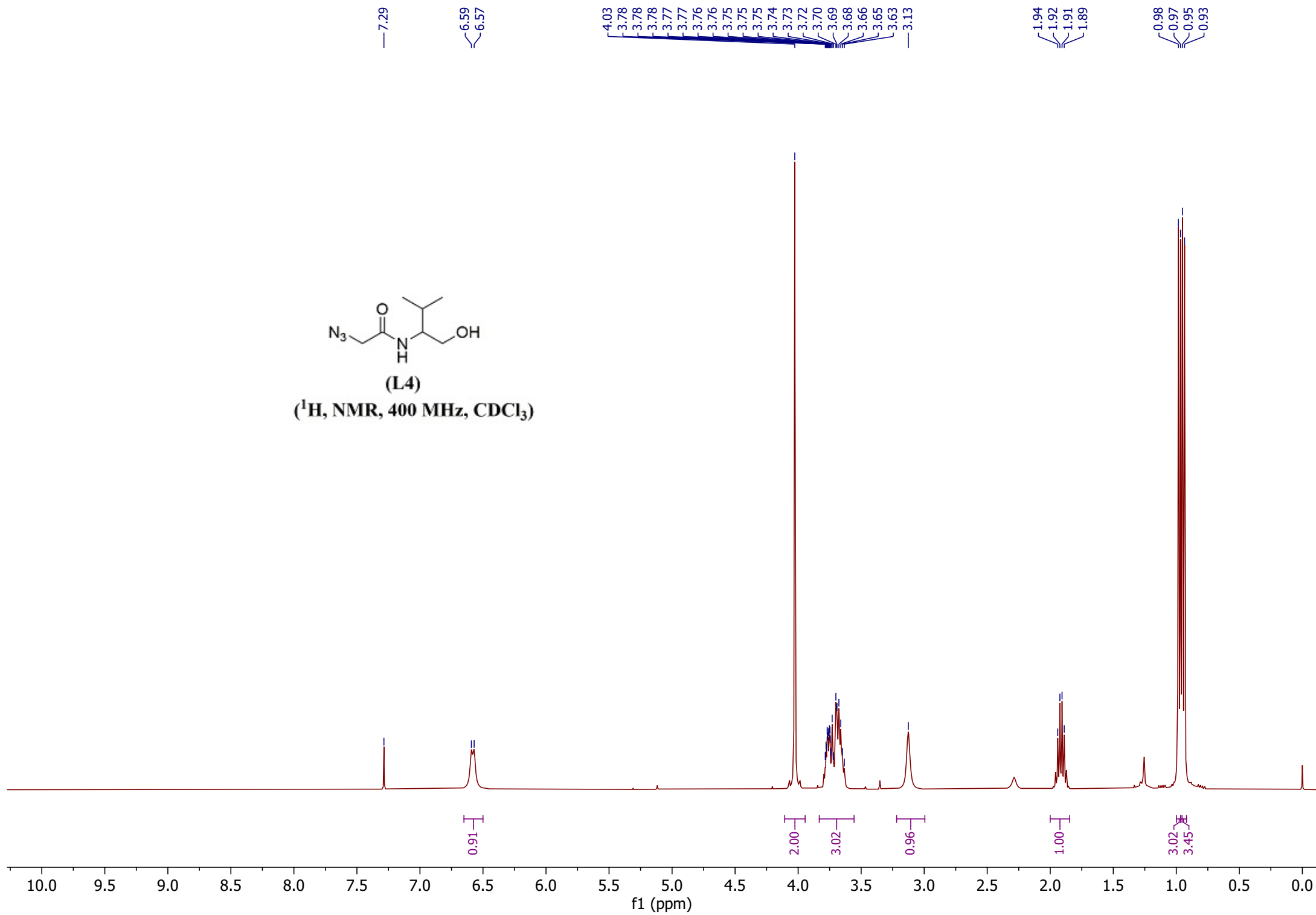
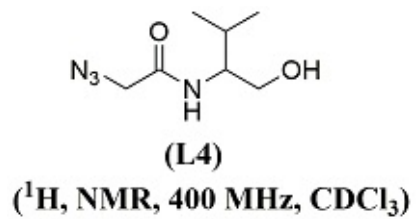
77.35 CDCl₃
77.04 CDCl₃
76.72 CDCl₃

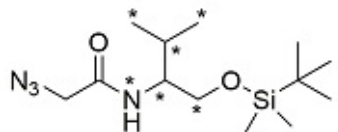
52.93

36.12
35.58
33.42

14.21
13.15
11.02



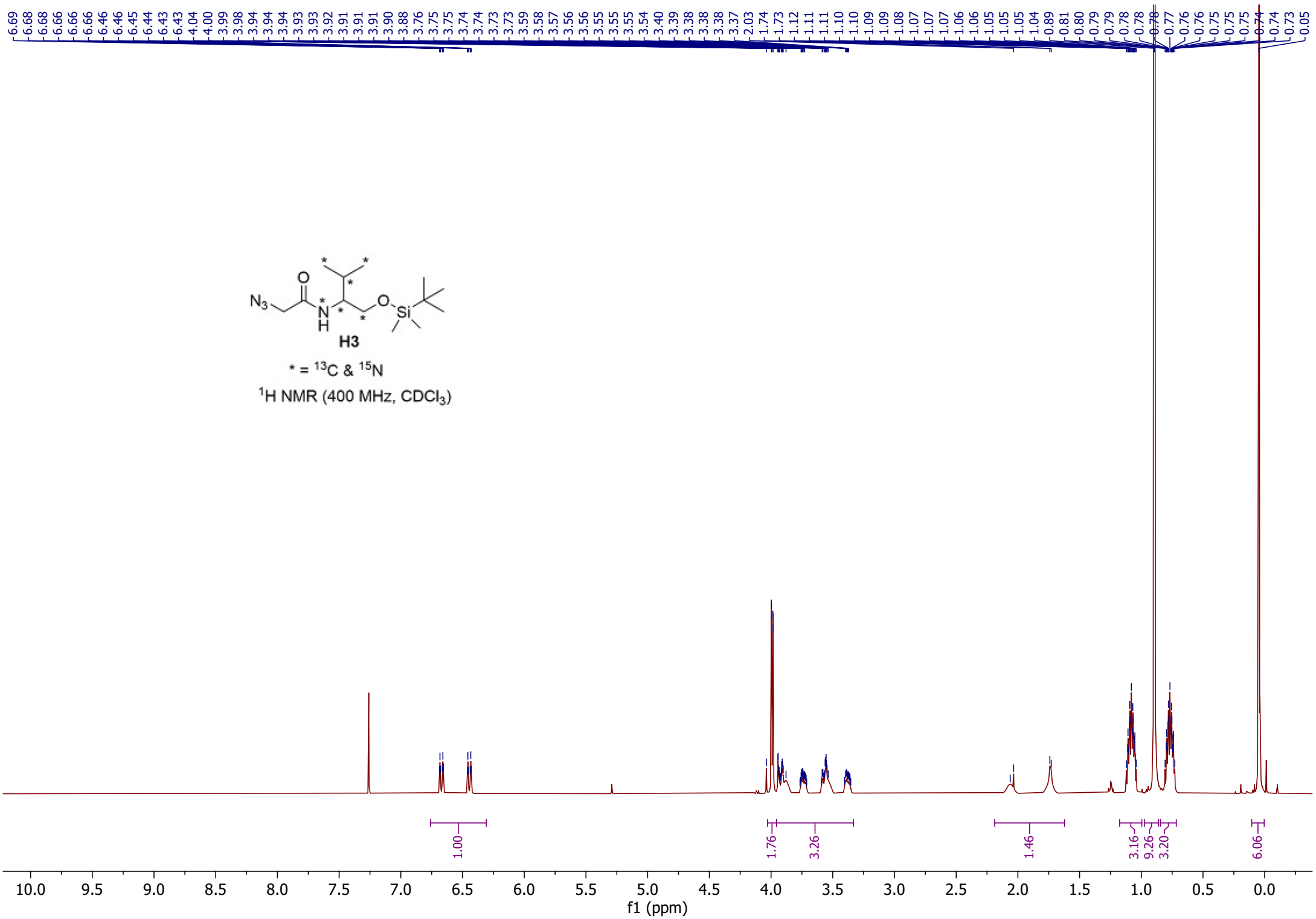


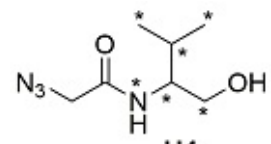


H3

* = ¹³C & ¹⁵N

¹H NMR (400 MHz, CDCl₃)



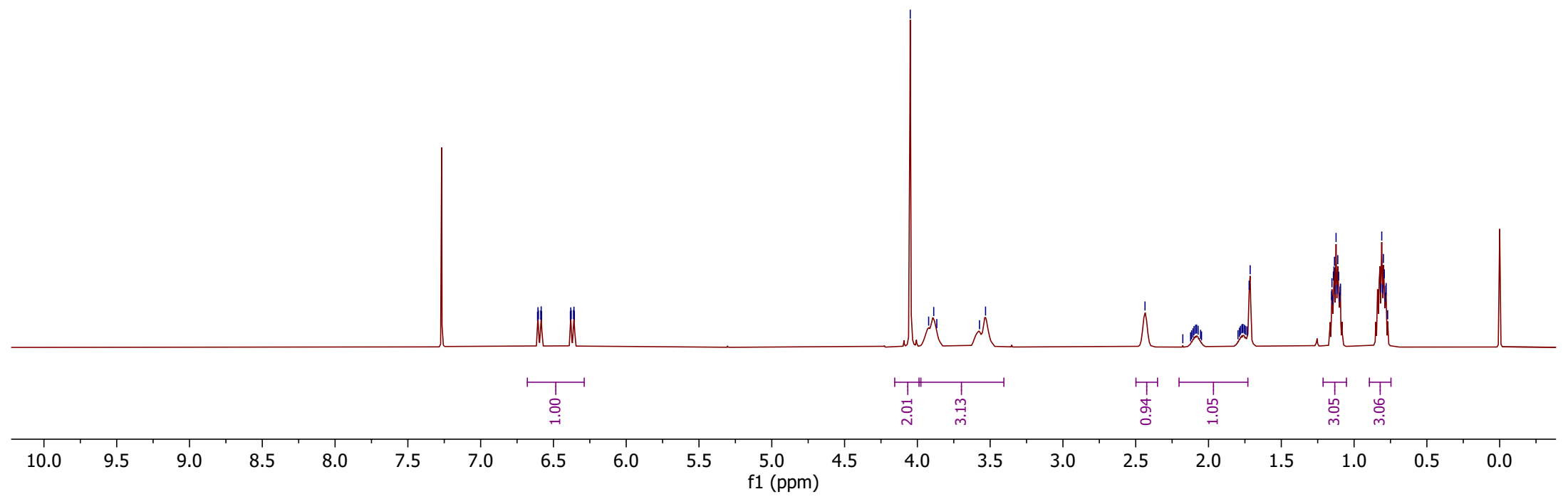


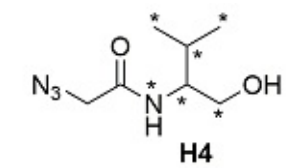
H4

* = ¹³C & ¹⁵N

¹H NMR (400 MHz, CDCl₃)

6.61, 6.61, 6.60, 6.59, 6.58, 6.58, 6.38, 6.38, 6.38, 6.36, 6.36, 6.36, 4.05, 3.92, 3.89, 3.87, 3.57, 3.53, 2.44, 2.18, 2.12, 2.12, 2.11, 2.10, 2.09, 2.08, 2.07, 2.05, 2.05, 1.80, 1.79, 1.78, 1.77, 1.76, 1.75, 1.75, 1.74, 1.72, 1.71, 1.15, 1.15, 1.15, 1.14, 1.14, 1.13, 1.13, 1.12, 1.12, 1.11, 1.11, 1.10, 1.10, 1.09, 0.82, 0.81, 0.80, 0.80, 0.79, 0.79, 0.78, 0.78, 0.77





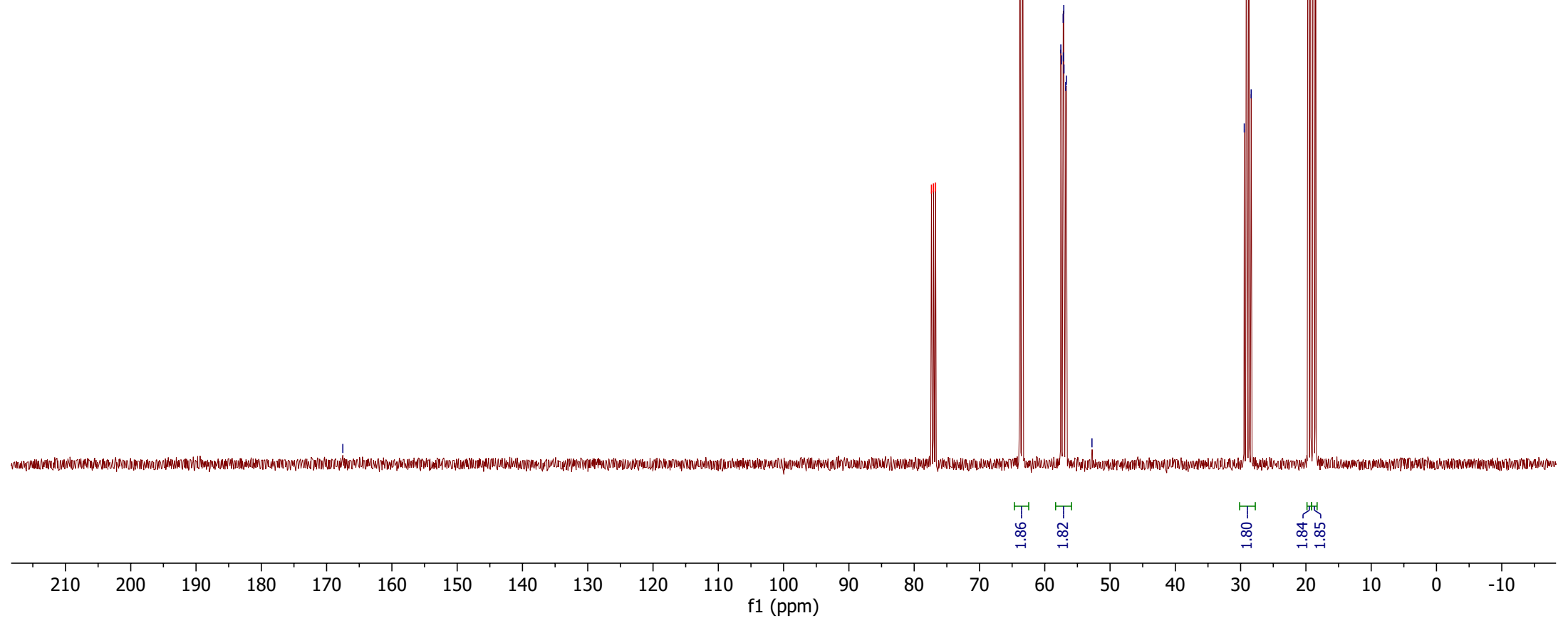
* = ^{13}C & ^{15}N

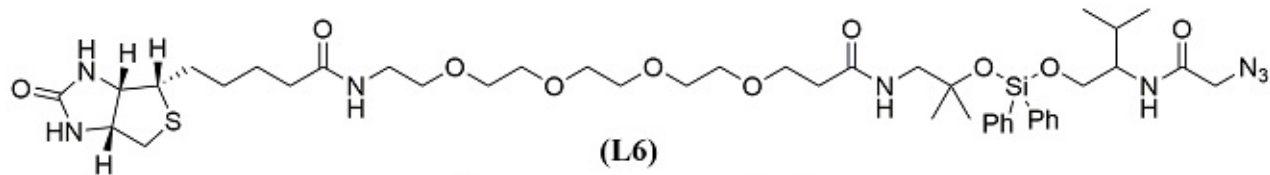
^{13}C NMR (101 MHz, CDCl_3)

—167.52

77.36 CDCl_3
77.04 CDCl_3
76.72 CDCl_3

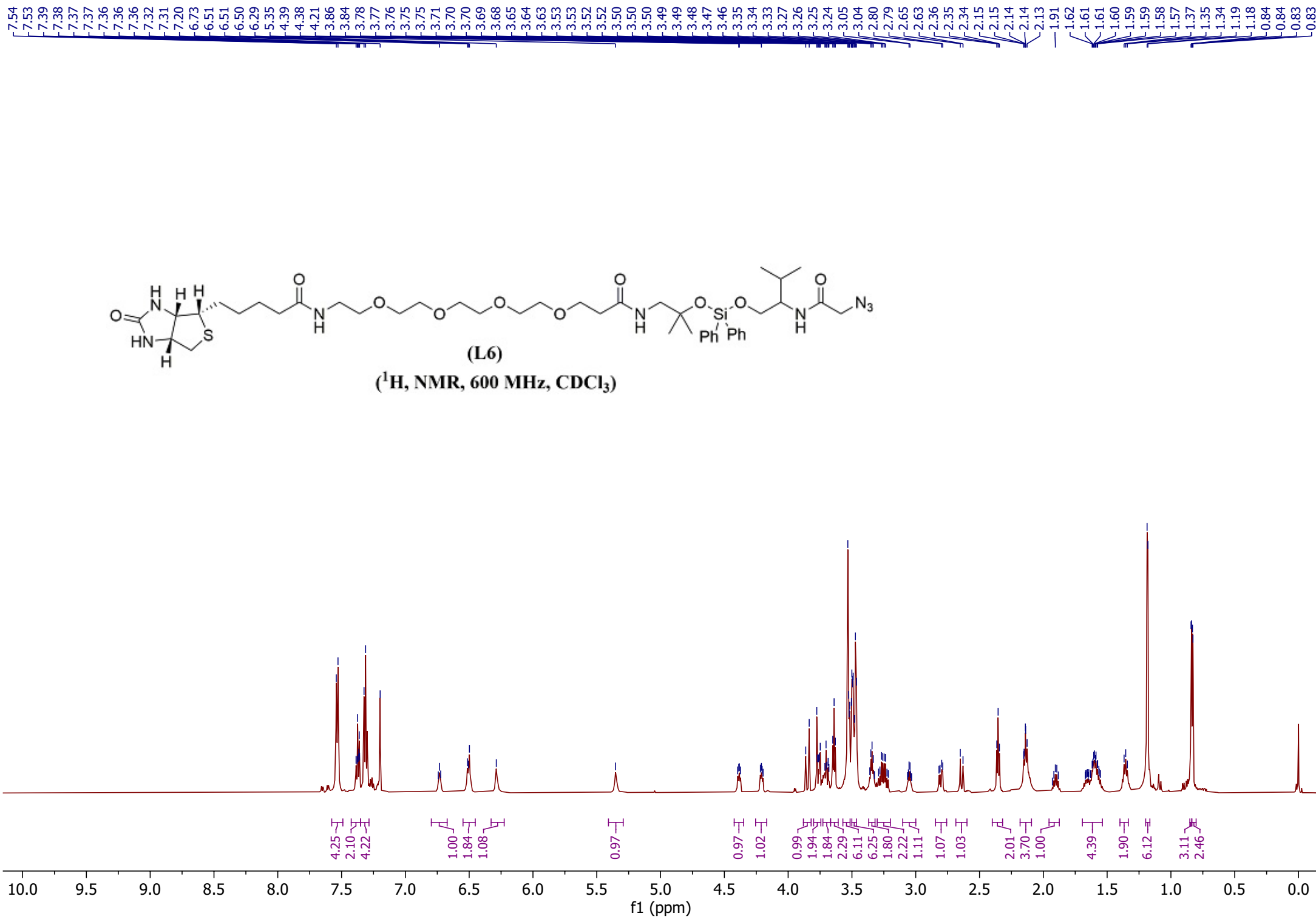
63.81
63.42
57.54
57.44
57.18
57.15
57.09
57.06
56.79
56.70
52.77
29.44
29.09
28.74
28.38
19.65
19.30
18.90
18.54

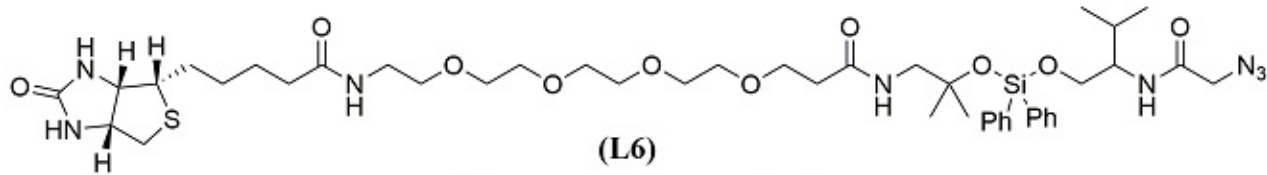




(L6)

(¹H, NMR, 600 MHz, CDCl₃)



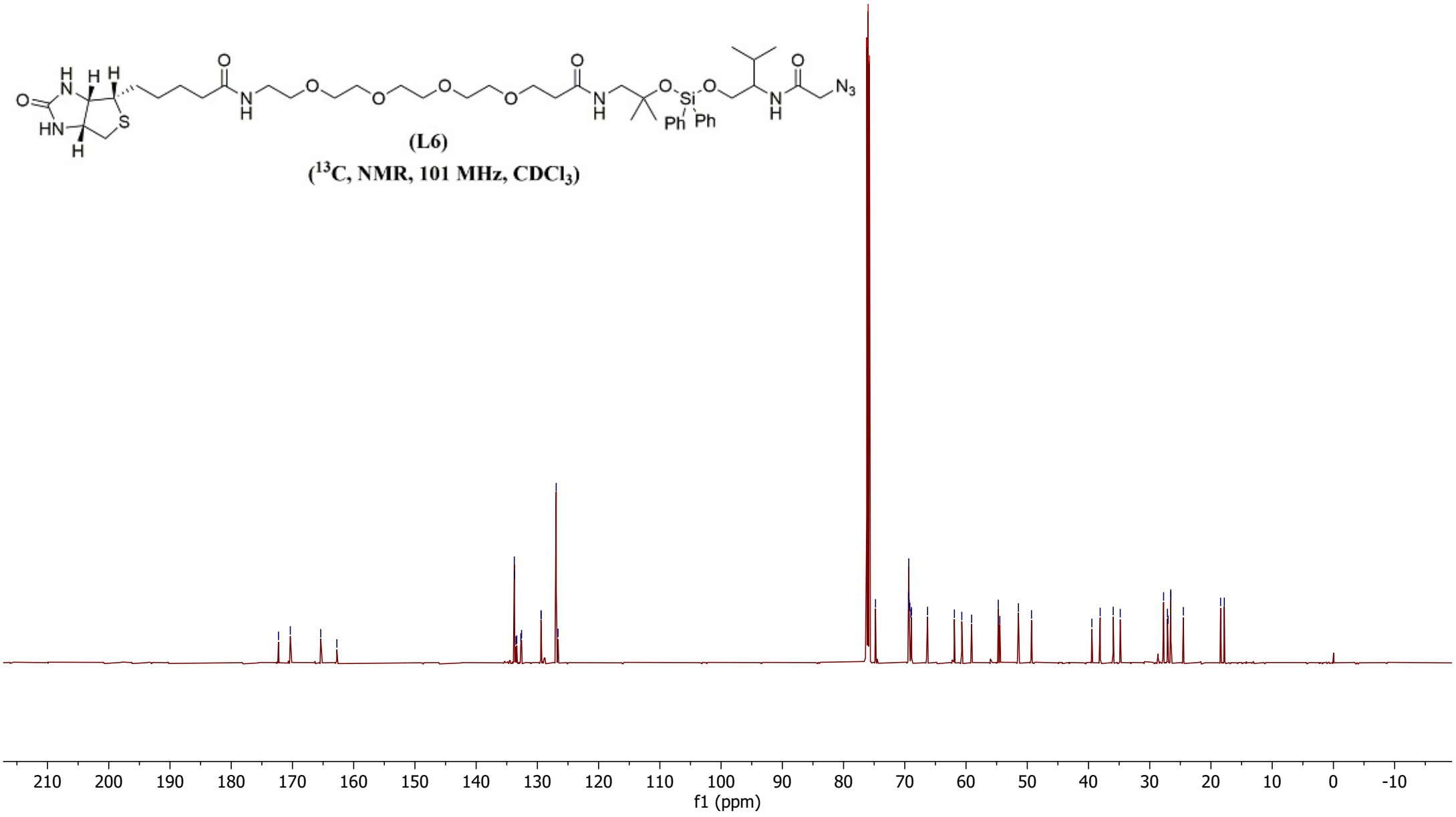


(L6)
 ^{13}C , NMR, 101 MHz, CDCl_3

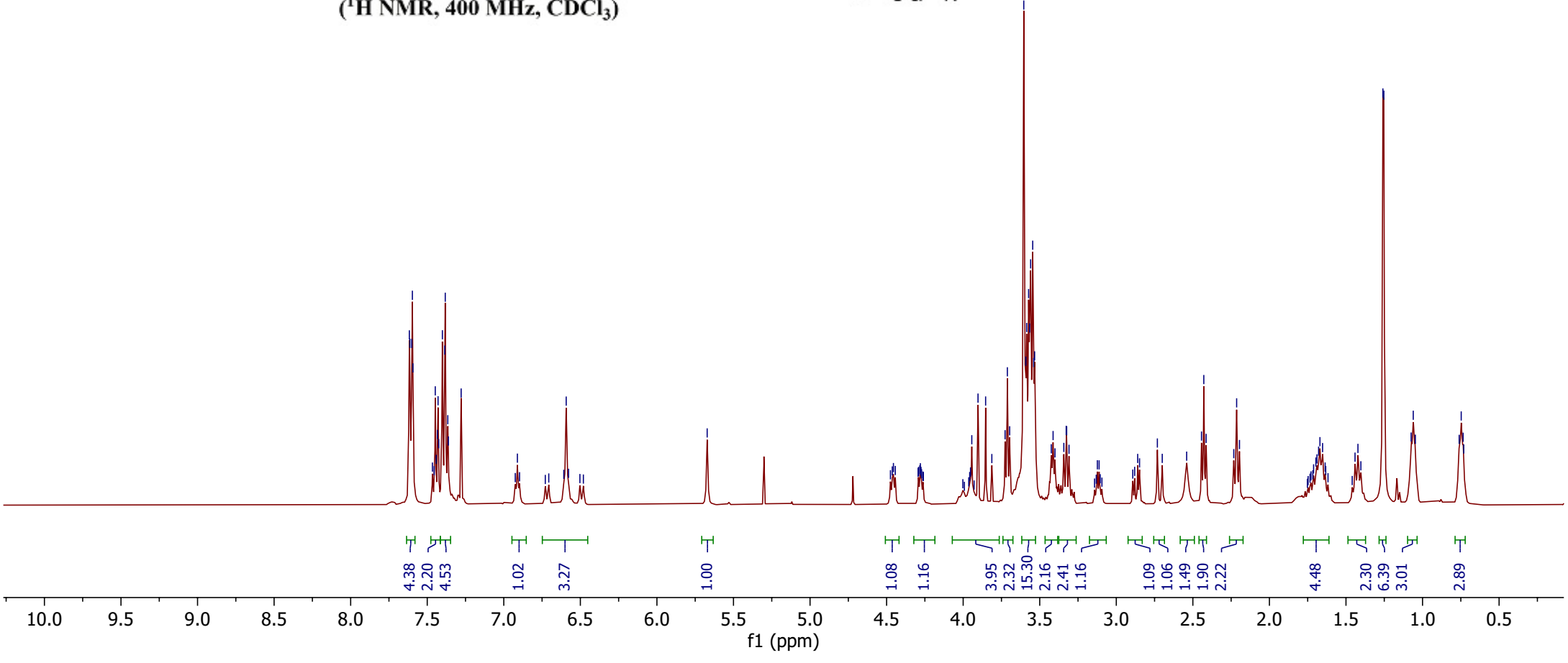
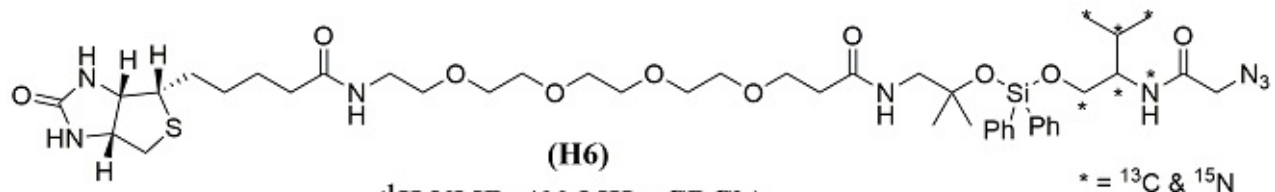
172.28
 170.35
 165.38
 162.74

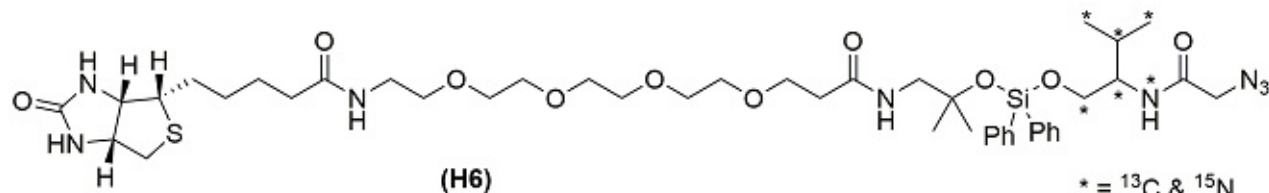
133.77
 133.75
 133.50
 133.37
 132.70
 132.59
 129.42
 129.39
 126.93
 126.63

76.20 CDCl_3
 75.99 CDCl_3
 75.78 CDCl_3
 74.78
 69.39
 69.35
 69.29
 69.17
 69.00
 68.91
 66.28
 61.90
 60.69
 59.09
 54.73
 54.48
 51.45
 49.31
 39.45
 38.09
 35.96
 34.81
 27.74
 27.10
 27.01
 26.57
 26.55
 24.51
 18.43
 17.82



7.62
7.61
7.60
7.60
7.59
7.47
7.45
7.44
7.43
7.43
7.40
7.39
7.38
7.37
7.36
7.28
6.91
6.59
5.67
4.46
4.46
4.44
4.29
4.29
4.28
4.28
4.28
3.94
3.90
3.85
3.81
3.73
3.71
3.70
3.60
3.59
3.59
3.57
3.57
3.56
3.55
3.54
3.53
3.42
3.41
3.40
3.34
3.33
3.32
3.31
3.12
3.11
2.88
2.86
2.85
2.73
2.70
2.54
2.44
2.43
2.41
2.23
2.21
2.20
2.20
1.71
1.70
1.69
1.68
1.67
1.65
1.64
1.63
1.63
1.44
1.42
1.40
1.40
1.26
1.25
1.07
1.06
1.05
0.76
0.75
0.73



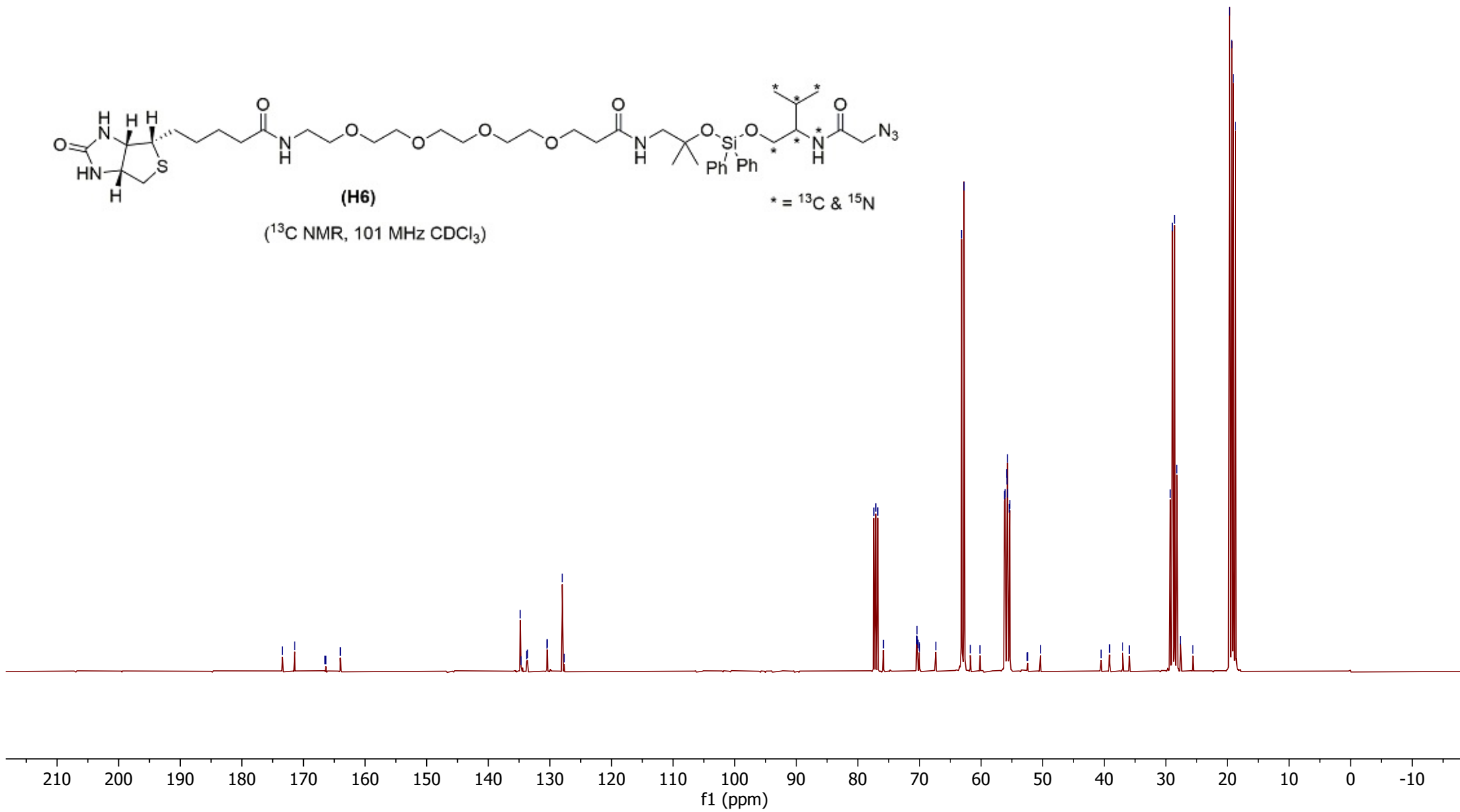


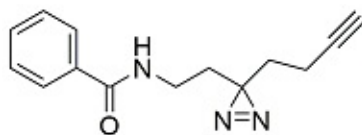
(^{13}C NMR, 101 MHz CDCl_3)

173.41
171.42
166.53
166.37
164.02

134.82
134.67
133.76
133.65
130.48
130.45
127.99
127.68

77.40
77.09
76.77
75.84
70.45
70.40
70.35
70.23
70.05
69.99
67.34
63.17
62.76
61.75
60.18
56.19
56.10
55.83
55.79
55.73
55.69
55.42
55.33
52.52
52.45
50.36
40.52
39.15
37.02
35.93
29.30
28.95
28.59
28.23
27.62
25.63
19.65
19.30
19.06
18.70





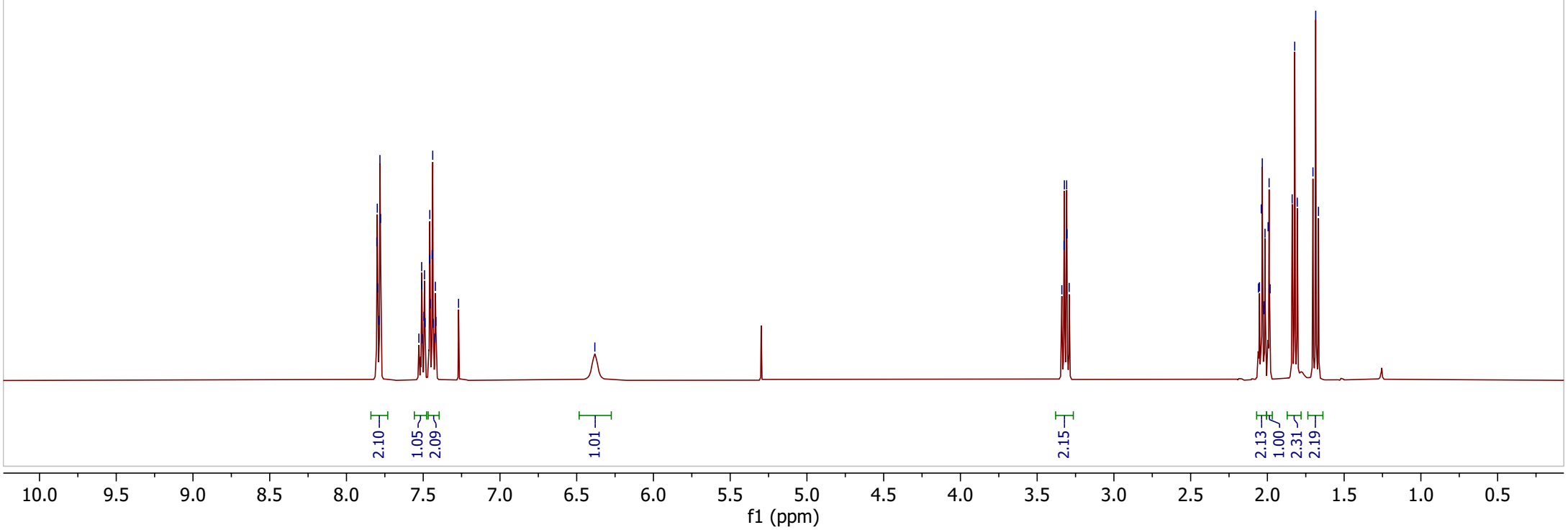
LD-C

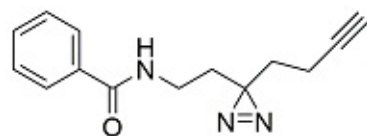
¹H NMR (400 MHz, CDCl₃)

7.80
7.80
7.80
7.79
7.78
7.78
7.53
7.51
7.51
7.50
7.50
7.49
7.46
7.46
7.45
7.44
7.44
7.43
7.42
7.42
7.42
7.27
6.38

3.34
3.32
3.32
3.31
3.31
3.29

2.06
2.05
2.04
2.03
2.02
2.02
2.02
2.00
1.99
1.98
1.84
1.82
1.81
1.70
1.69
1.67





LD-C

^{13}C NMR (101 MHz, CDCl_3)

— 167.58

— 134.40

— 131.59

— 128.63

— 126.92

— 82.70

— 77.37

— 77.06

— 76.74

— 69.46

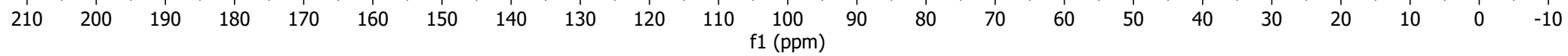
— 34.91

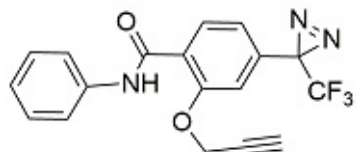
— 32.50

— 32.13

— 26.95

— 13.21





Ar-C

¹H NMR (600 MHz, CDCl₃)

9.60

8.33

8.31

7.69

7.69

7.68

7.67

7.67

7.38

7.38

7.37

7.37

7.36

7.36

7.35

7.35

7.26

7.26

7.16

7.16

7.16

7.15

7.15

7.15

7.14

7.14

7.13

7.13

7.13

6.98

6.98

6.98

6.98

6.97

6.97

6.96

6.86

6.85

4.93

4.91

4.91

2.74

2.74

2.73

2.73

2.73

1.58

-0.00

1.06

1.06

2.16

2.17

1.11

1.12

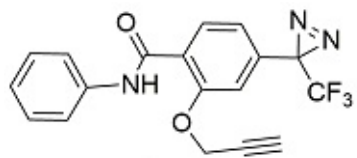
1.05

2.23

1.00

10.5 10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0

f1 (ppm)



Ar-C

¹³C NMR (151 MHz, CDCl₃)

161.63

155.17

138.04

134.04

133.39

129.05

129.04

124.53

123.80

122.72

120.90

120.42

120.34

111.05

77.89

77.23

77.01

76.80

76.24

57.65

28.75

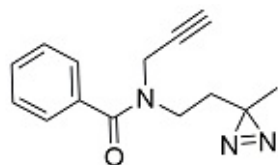
28.49

28.21

27.95

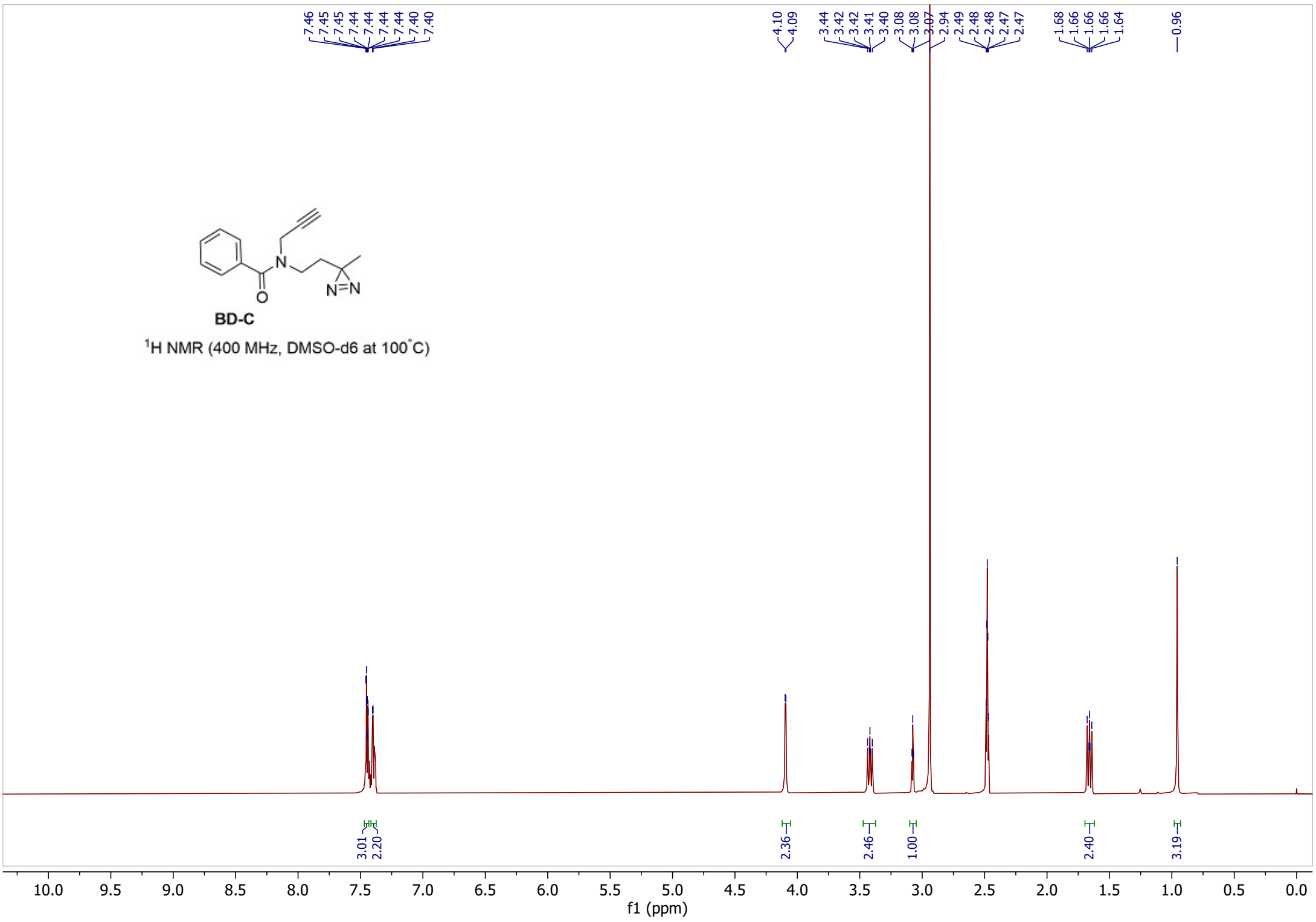
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10

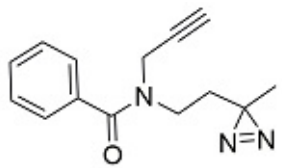
f1 (ppm)



BD-C

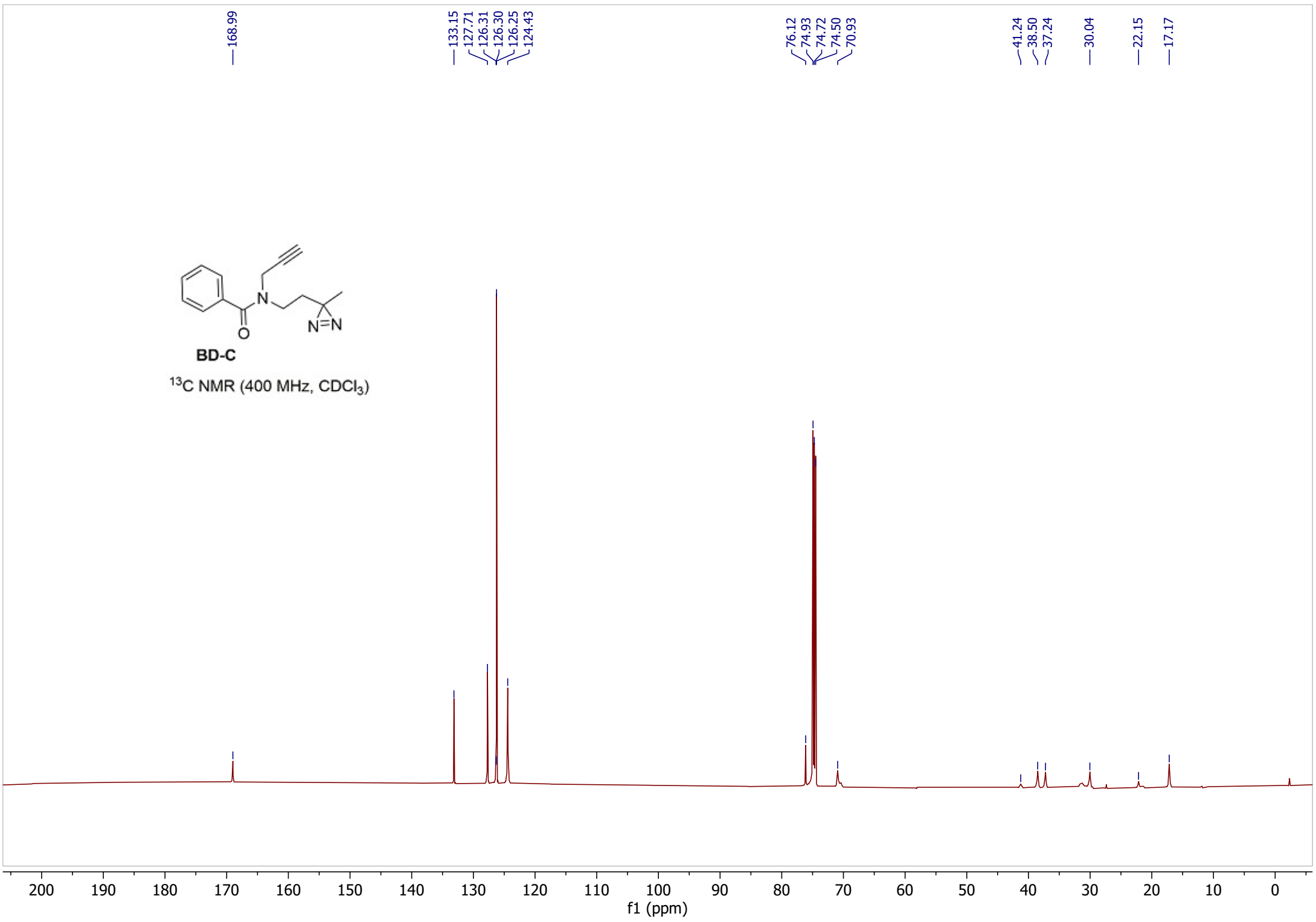
¹H NMR (400 MHz, DMSO-d₆ at 100 °C)

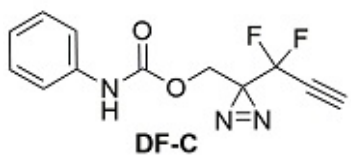




BD-C

¹³C NMR (400 MHz, CDCl₃)



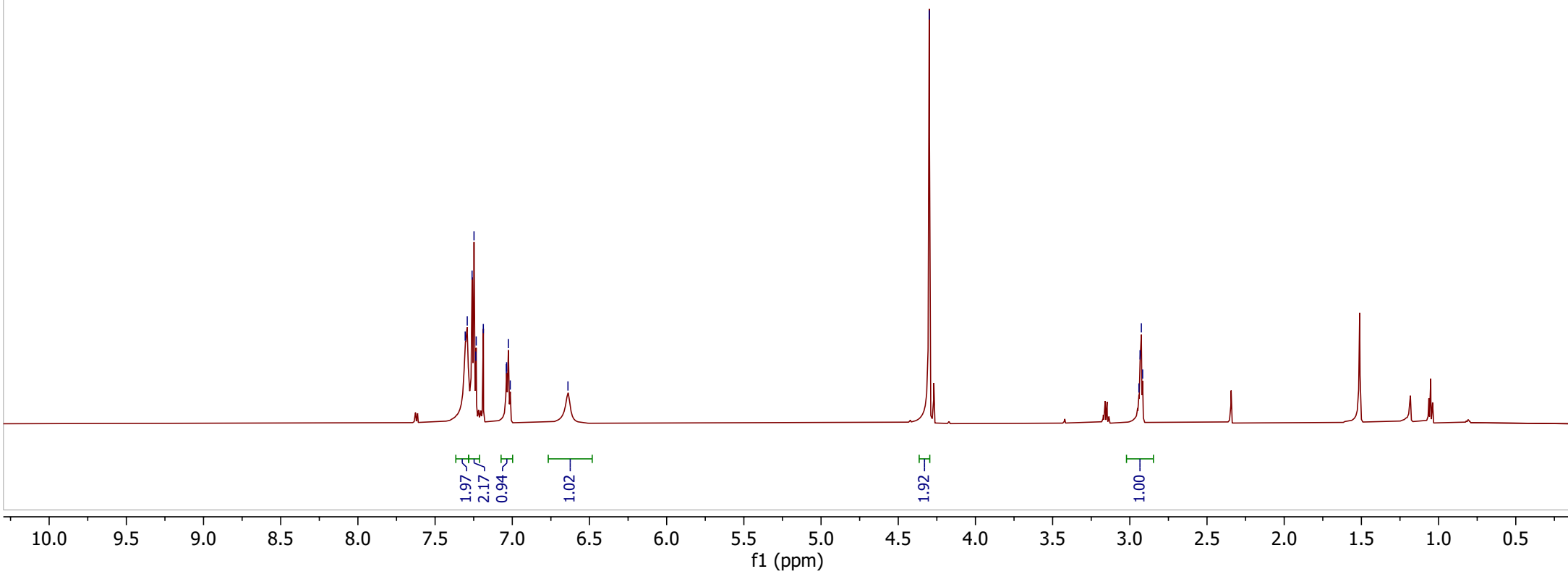


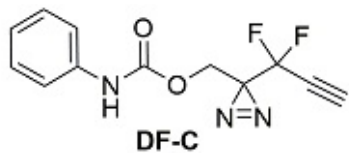
$^1\text{H NMR}$ (600 MHz, CDCl_3)

7.31
7.29
7.26
7.25
7.24
7.23
7.19
7.04
7.04
7.03
7.01
6.64

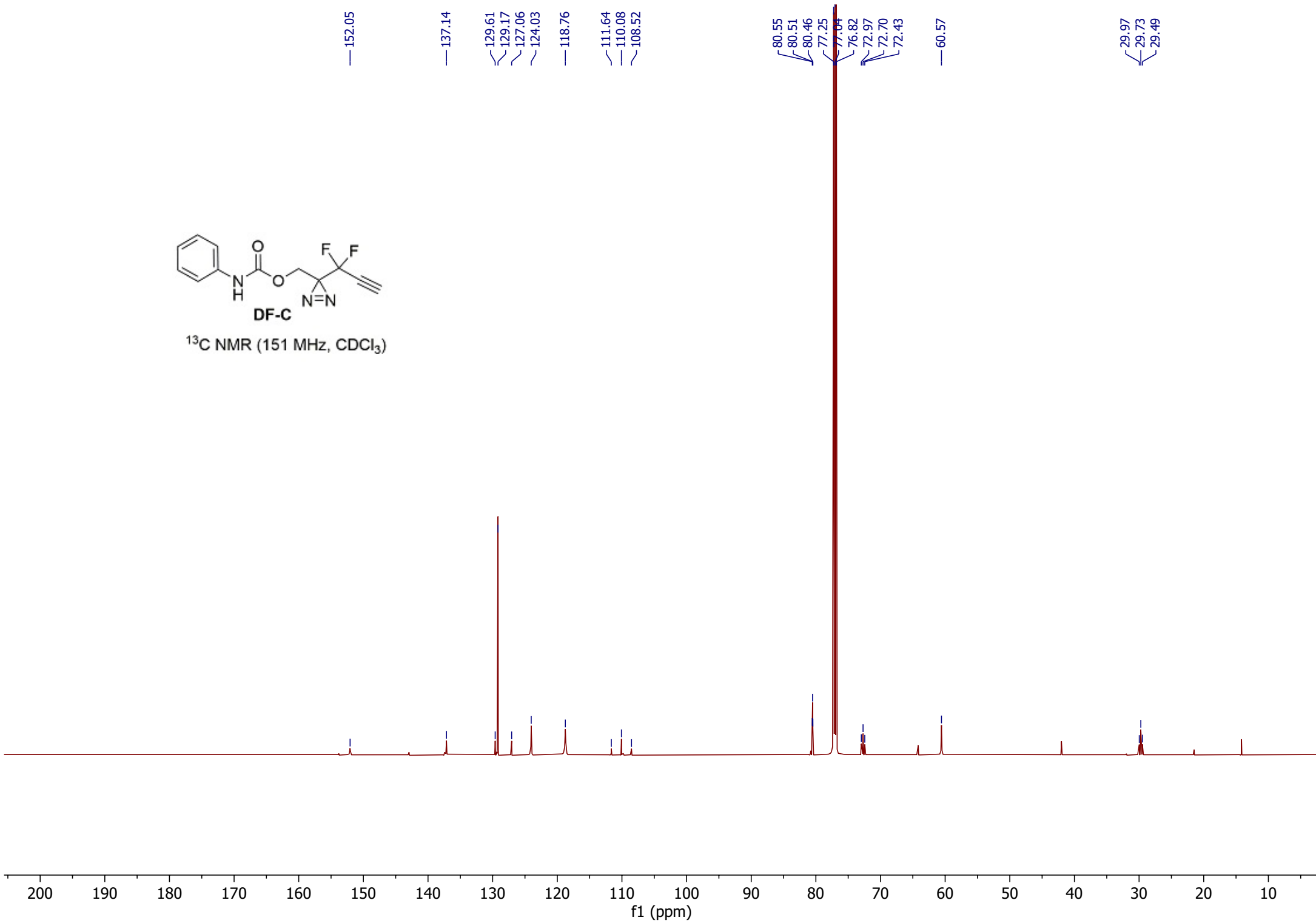
4.30

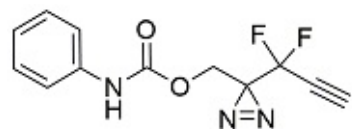
2.94
2.93
2.93
2.92





¹³C NMR (151 MHz, CDCl₃)

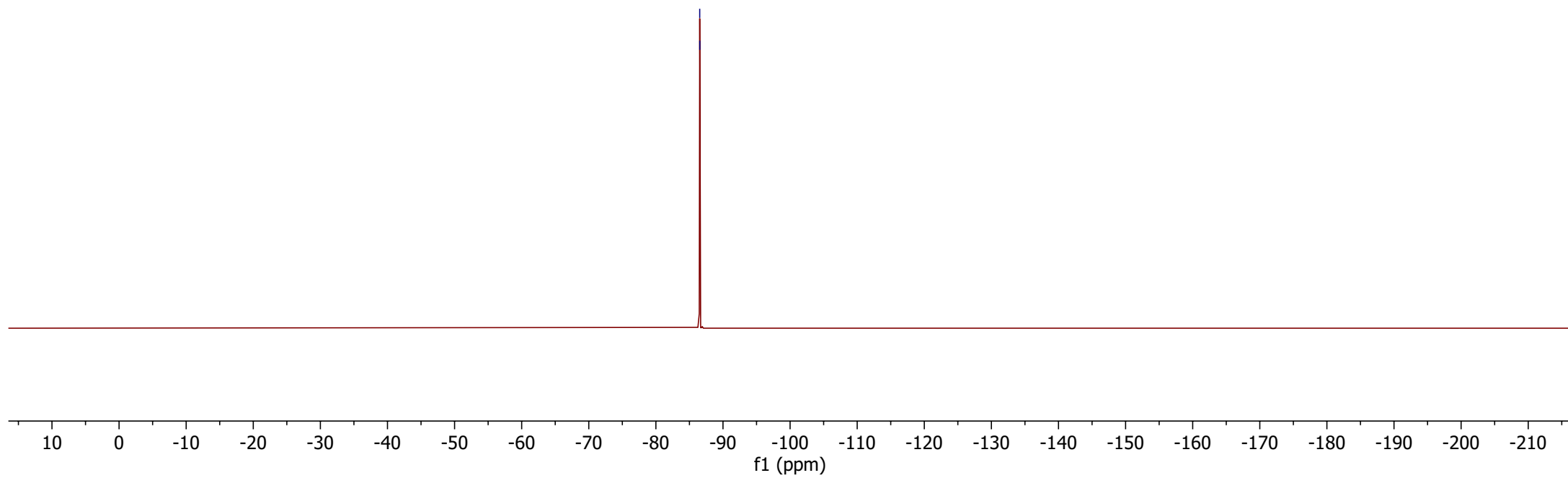


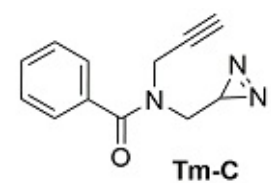


DF-C

^{19}F NMR (565 MHz, CDCl_3)

-86.53
-86.54





¹H NMR (600 MHz, CDCl₃)

7.44
7.40
7.40
7.39
7.38
7.37
7.37
7.36
7.35
7.19
7.19

4.40

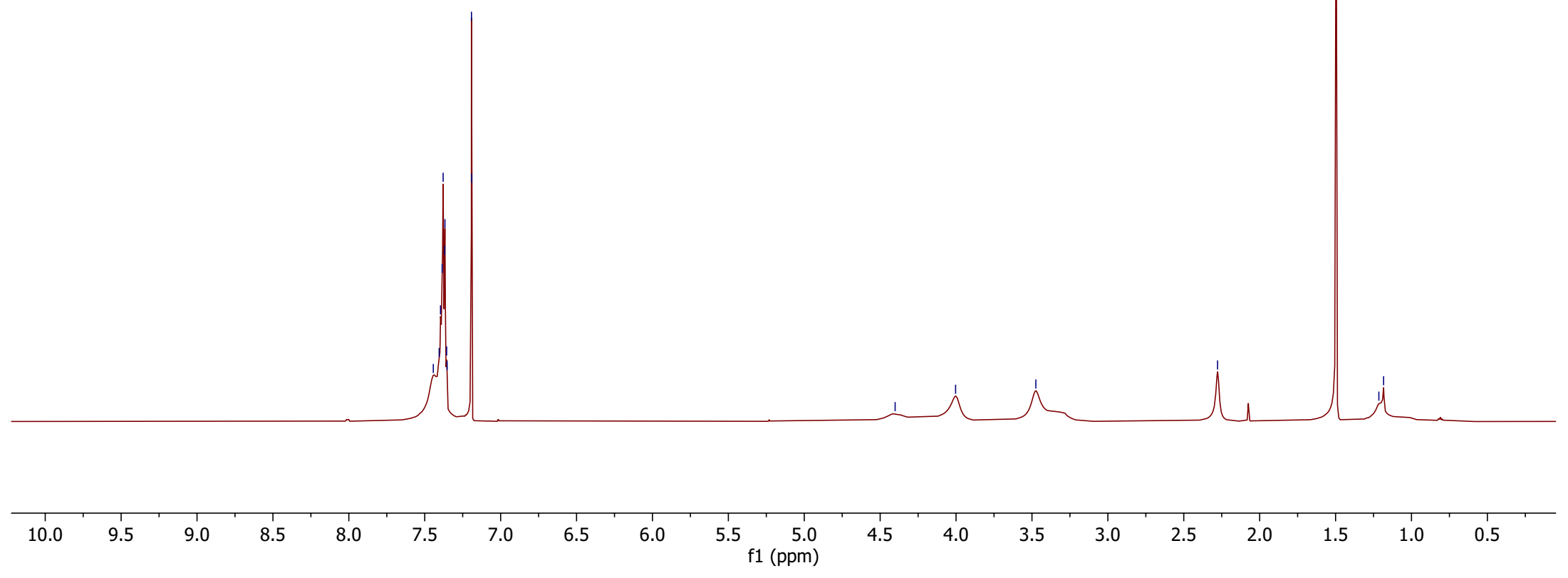
4.00

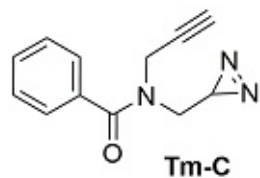
3.47

2.28

1.50

1.21
1.18





¹³C NMR (151 MHz, CDCl₃)

—171.58

—134.69

—130.39

—128.67

—127.06

—78.02

—77.24

—77.03

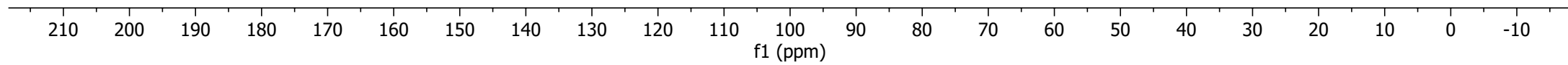
—76.82

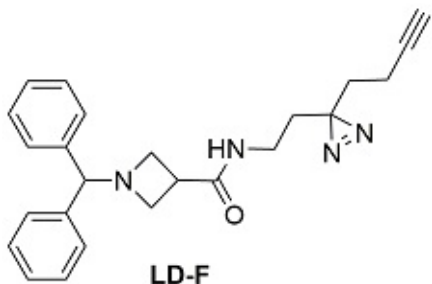
—73.53

—44.98

—40.27

—19.47

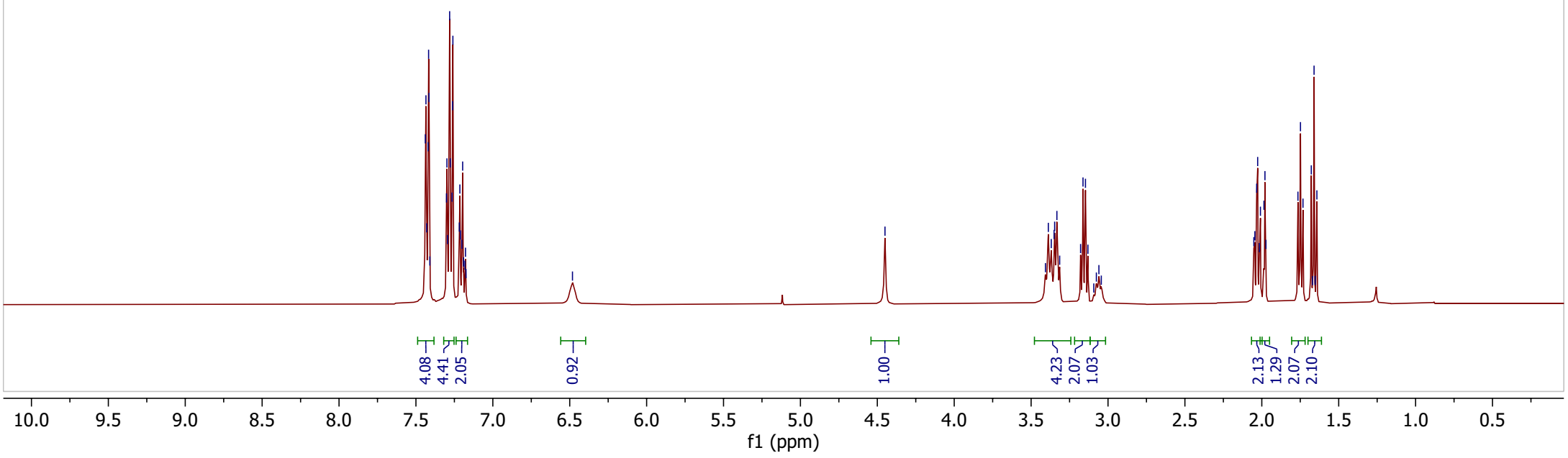


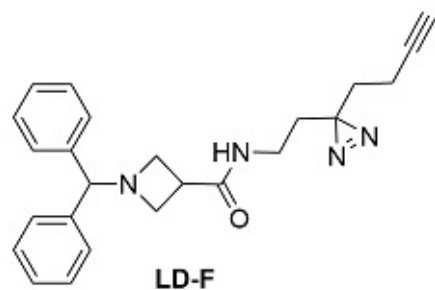


^1H NMR (400 MHz, CDCl_3)

7.44
7.43
7.43
7.42
7.42
7.41
7.41
7.30
7.30
7.29
7.28
7.28
7.27
7.26
7.26
7.22
7.21
7.21
7.20
7.20
7.19
7.18
7.18
7.17
6.48

4.45
3.41
3.39
3.37
3.35
3.35
3.33
3.33
3.31
3.18
3.16
3.15
3.13
3.13
3.09
3.08
3.06
3.04
2.05
2.03
2.03
2.02
2.01
1.99
1.98
1.97
1.77
1.75
1.73
1.68
1.67
1.66
1.65
1.64





¹³C NMR (101 MHz, CDCl₃)

—173.40

—141.51

128.55

127.47

127.29

82.65

77.63

77.39

77.28

77.07

76.76

69.50

—56.41

35.83

34.18

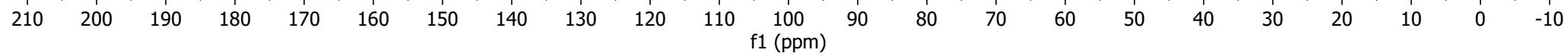
32.42

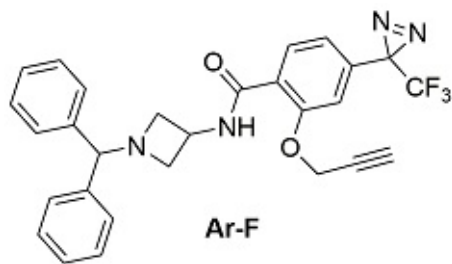
32.27

26.91

13.26

13.23





¹H NMR (600 MHz, CDCl₃)

8.19
8.17
8.04
8.02
7.43
7.42
7.40
7.29
7.27
7.27
7.26
7.25
7.21
7.21
7.20
7.19
7.19
7.17
7.17
7.17
6.92
6.90
6.81
6.81

4.85
4.85
4.73
4.71
4.69
4.68
4.37

3.65
3.63
3.63
3.61

3.00
2.98
2.98
2.96
2.68
2.68
2.67

1.00
0.93

4.01
4.53
1.78

0.99
0.98

1.96
1.00

0.99

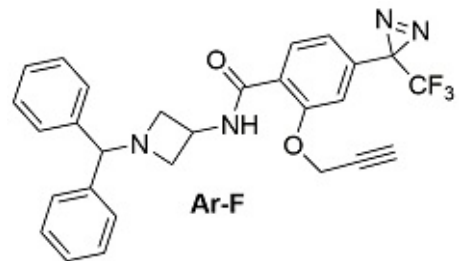
1.97

1.97

0.94

10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5

f1 (ppm)

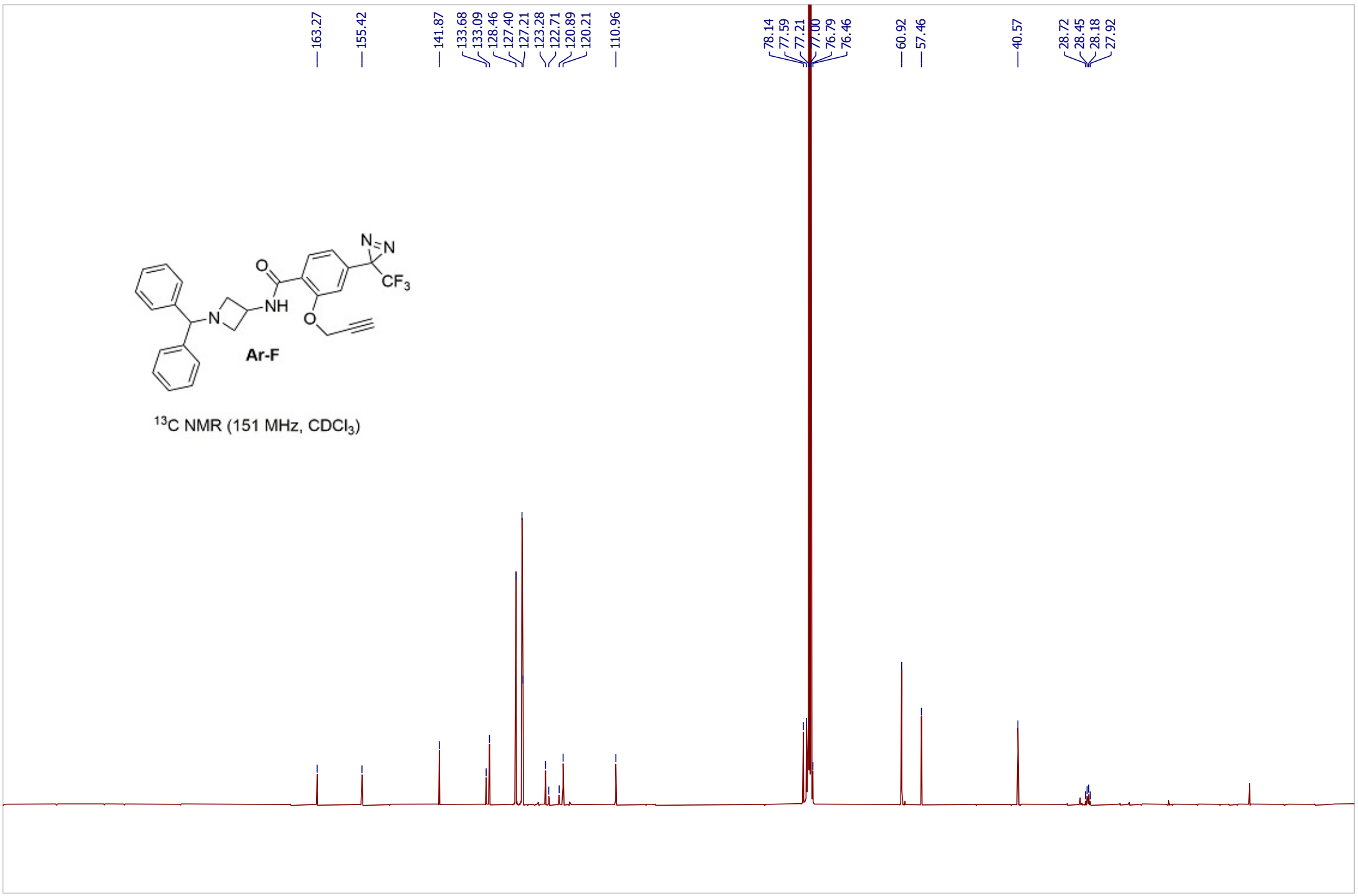


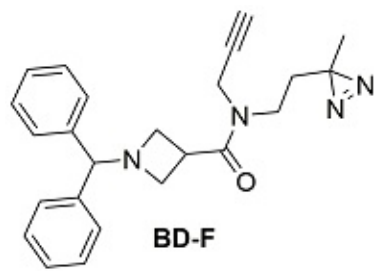
^{13}C NMR (151 MHz, CDCl_3)

— 163.27 — 155.42 — 141.87 — 133.68 — 133.09 — 128.46 — 127.40 — 127.21 — 123.28 — 122.71 — 120.89 — 120.21 — 110.96 — 78.14 — 77.59 — 77.21 — 77.00 — 76.79 — 76.46 — 60.92 — 57.46 — 40.57 — 28.72 — 28.45 — 28.18 — 27.92

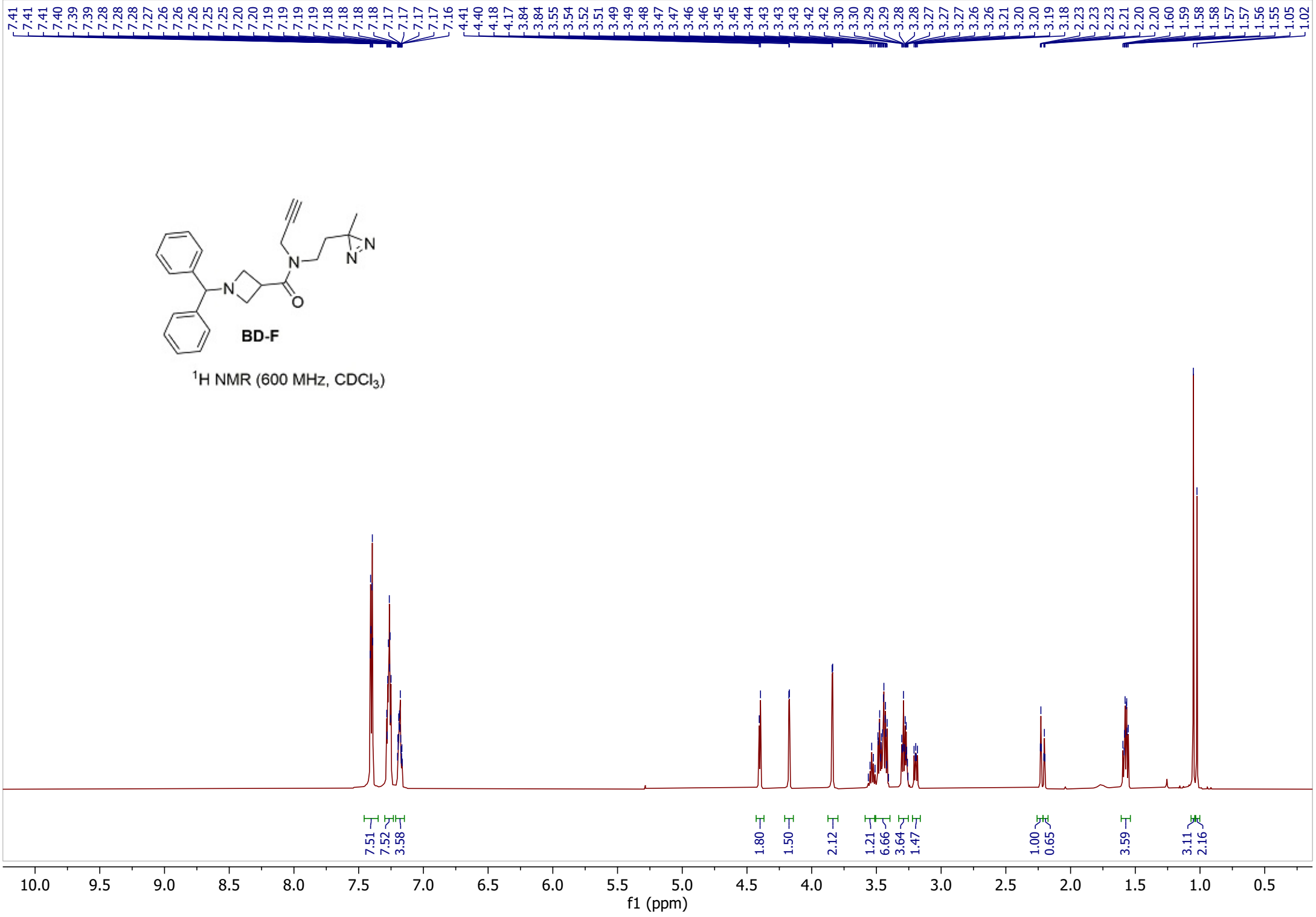
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10

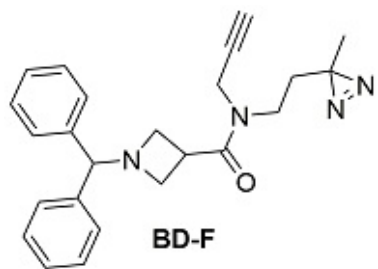
f1 (ppm)





¹H NMR (600 MHz, CDCl₃)





^{13}C NMR (151 MHz, CDCl_3)

171.96
171.50

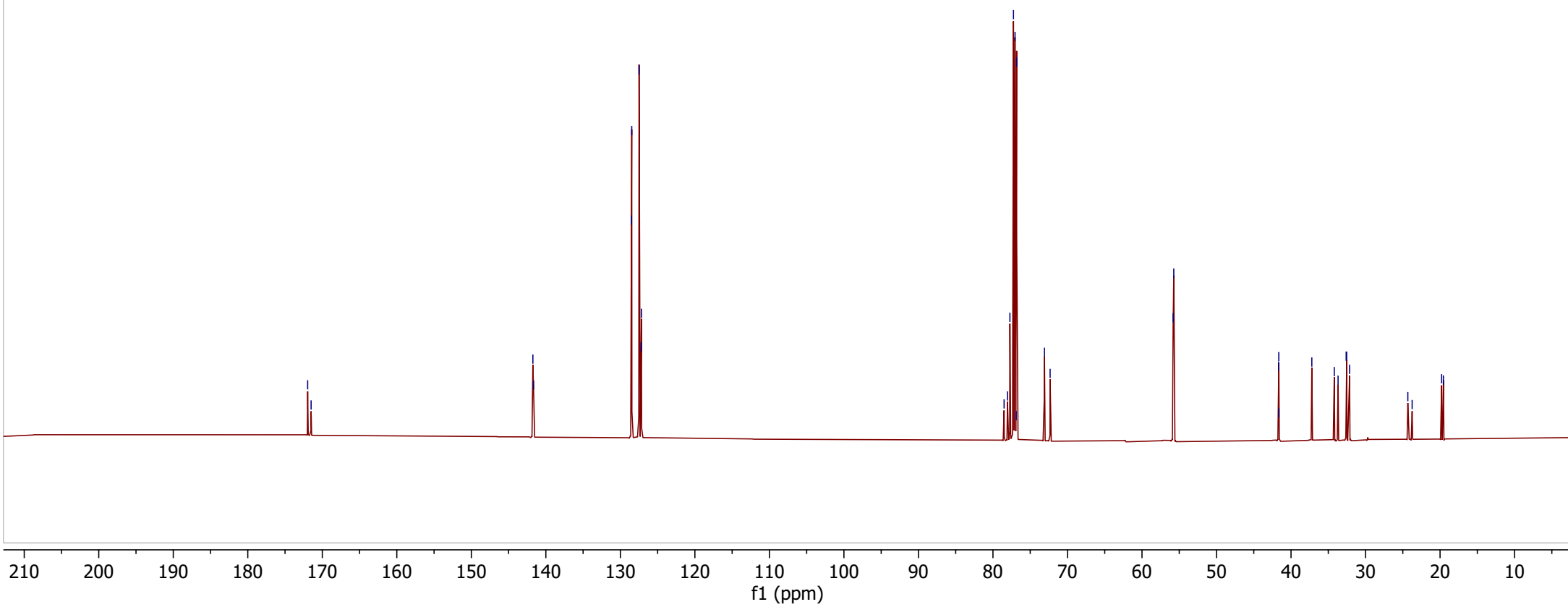
141.74
141.65

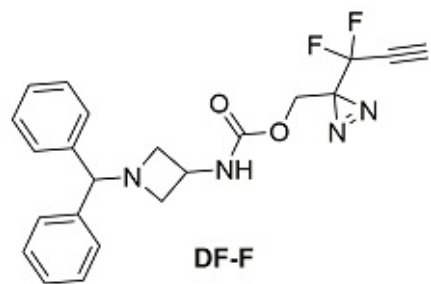
128.50
128.47
127.49
127.22
127.17

78.50
78.05
77.72
77.25
77.04
76.88
76.82
73.09
72.33

55.82
55.73

41.66
41.64
41.63
37.21
34.20
33.69
32.60
32.53
32.14
24.32
23.75
19.79
19.55





^1H NMR (600 MHz, CDCl_3)

7.38
7.37
7.28
7.26
7.25
7.25
7.19
7.18
7.17

5.22
5.20

4.30
4.29
4.28
4.27
4.26
4.24

3.51
3.50
3.50

3.49

2.97

2.96

2.95

2.88

2.87

2.87
2.86

4.32
3.84
2.23

1.00

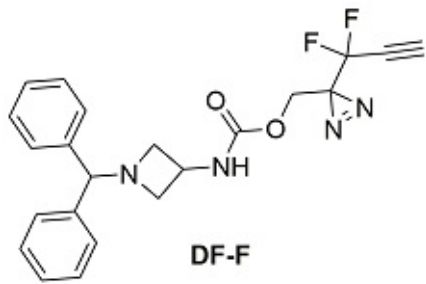
1.78
2.92

2.48

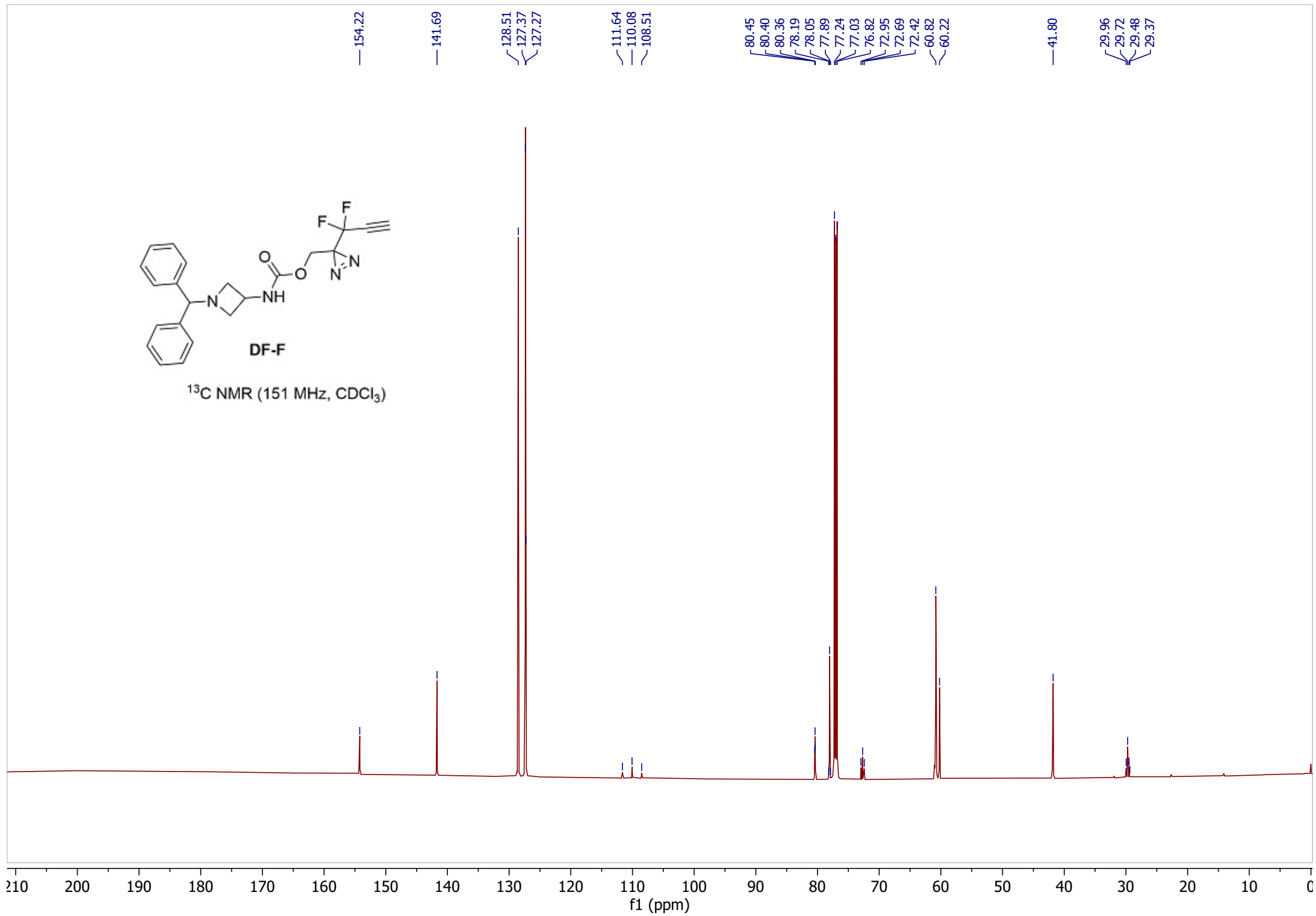
1.08
1.42

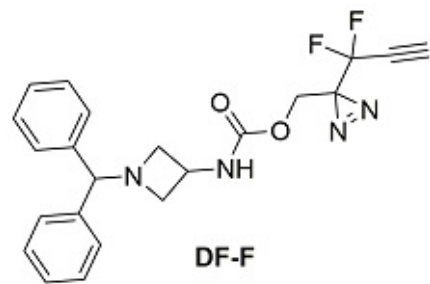
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5

f1 (ppm)



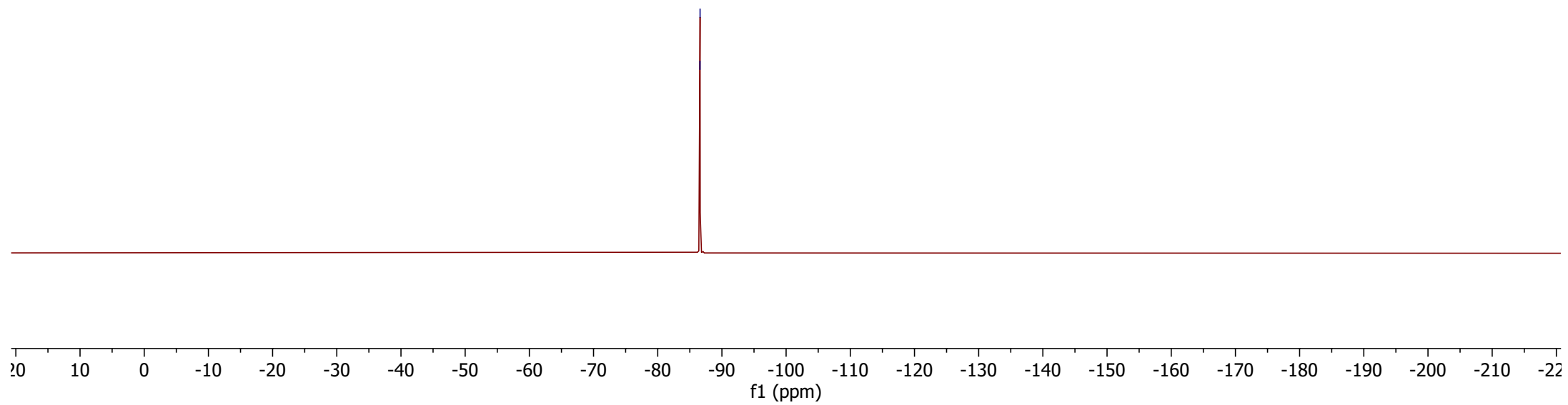
^{13}C NMR (151 MHz, CDCl_3)

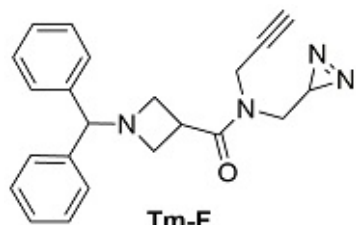




¹⁹F NMR (376 MHz, CDCl₃)

86.58
86.60





$^1\text{H NMR}$ (400 MHz, CDCl_3)

7.45
7.44
7.44
7.42
7.42
7.32
7.31
7.30
7.29
7.28
7.28
7.23
7.23
7.23
7.22
7.21
7.20
7.19

4.43
4.42
4.28
4.28
3.93
3.92
3.57
3.55
3.53
3.53
3.52
3.51
3.51
3.50
3.49
3.47
3.41
3.39
3.38
3.33
3.32
3.31
3.30
3.30
3.28
3.28
3.26
3.26
2.30
2.30
2.29
2.25
1.15
1.14
1.13
1.07
1.06
1.05

6.45
6.76
3.25

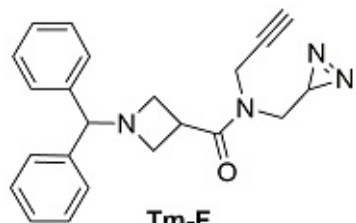
1.60
1.33
1.84
4.25
2.27
2.97
1.68

0.87
0.65

1.00
0.68

10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.

f1 (ppm)



¹³C NMR (101 MHz, CDCl₃)

172.31
171.73

141.70
141.64

128.52
127.51
127.24

77.73
77.48
77.37
77.05
76.74
73.48
72.69

55.76

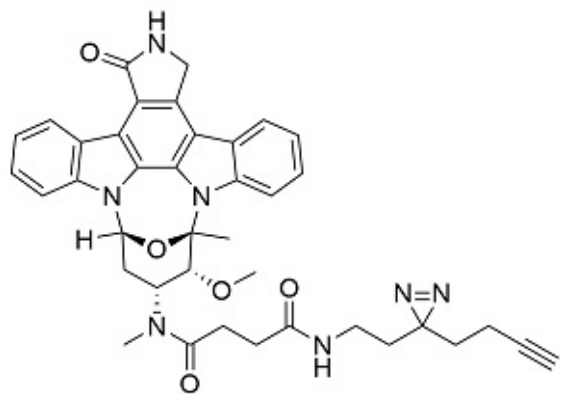
45.80
45.52

37.80
34.93
32.34
32.25

19.51
19.45

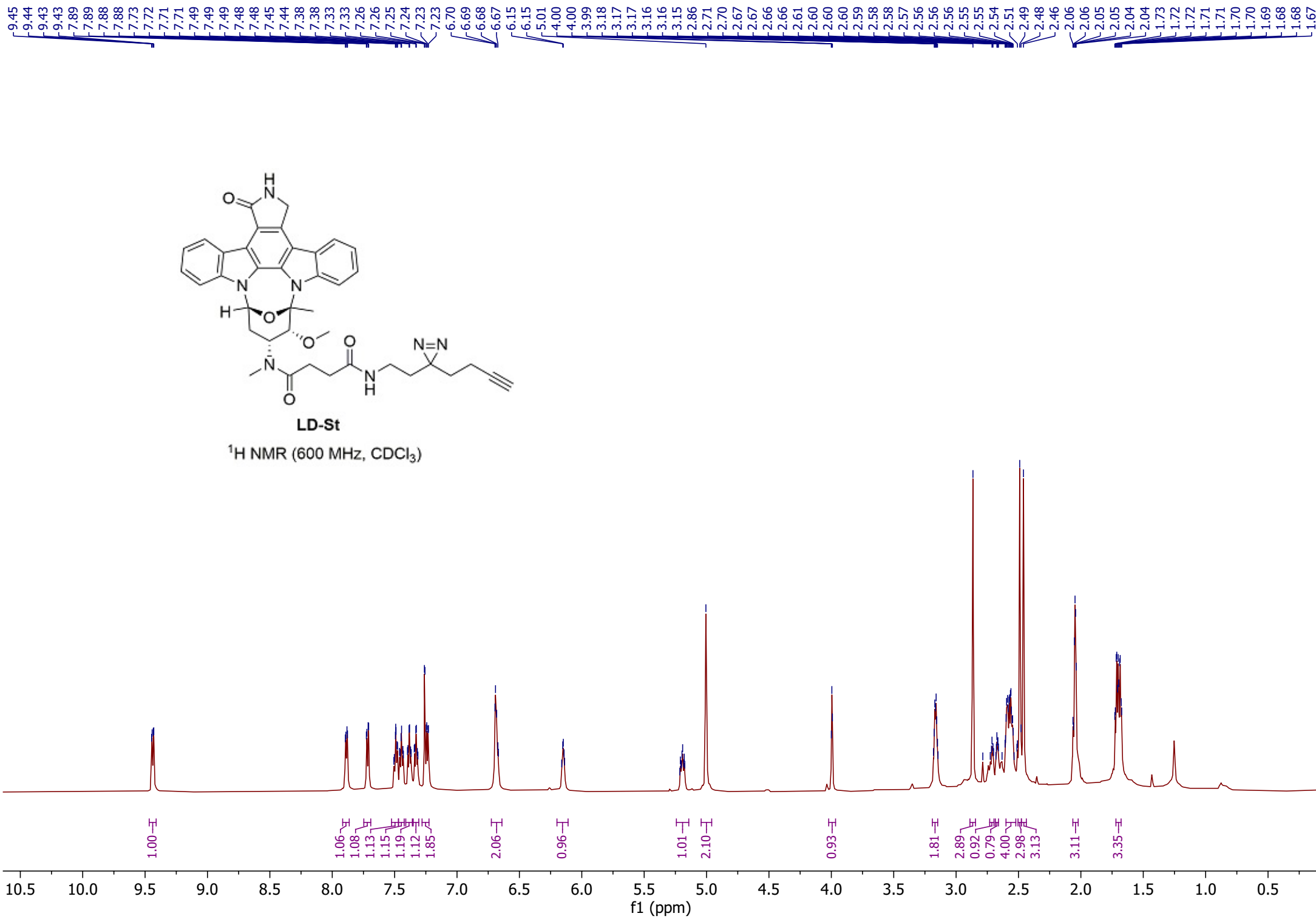
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10

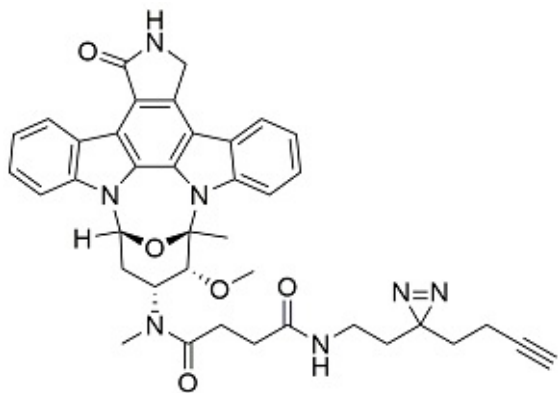
f1 (ppm)



LD-St

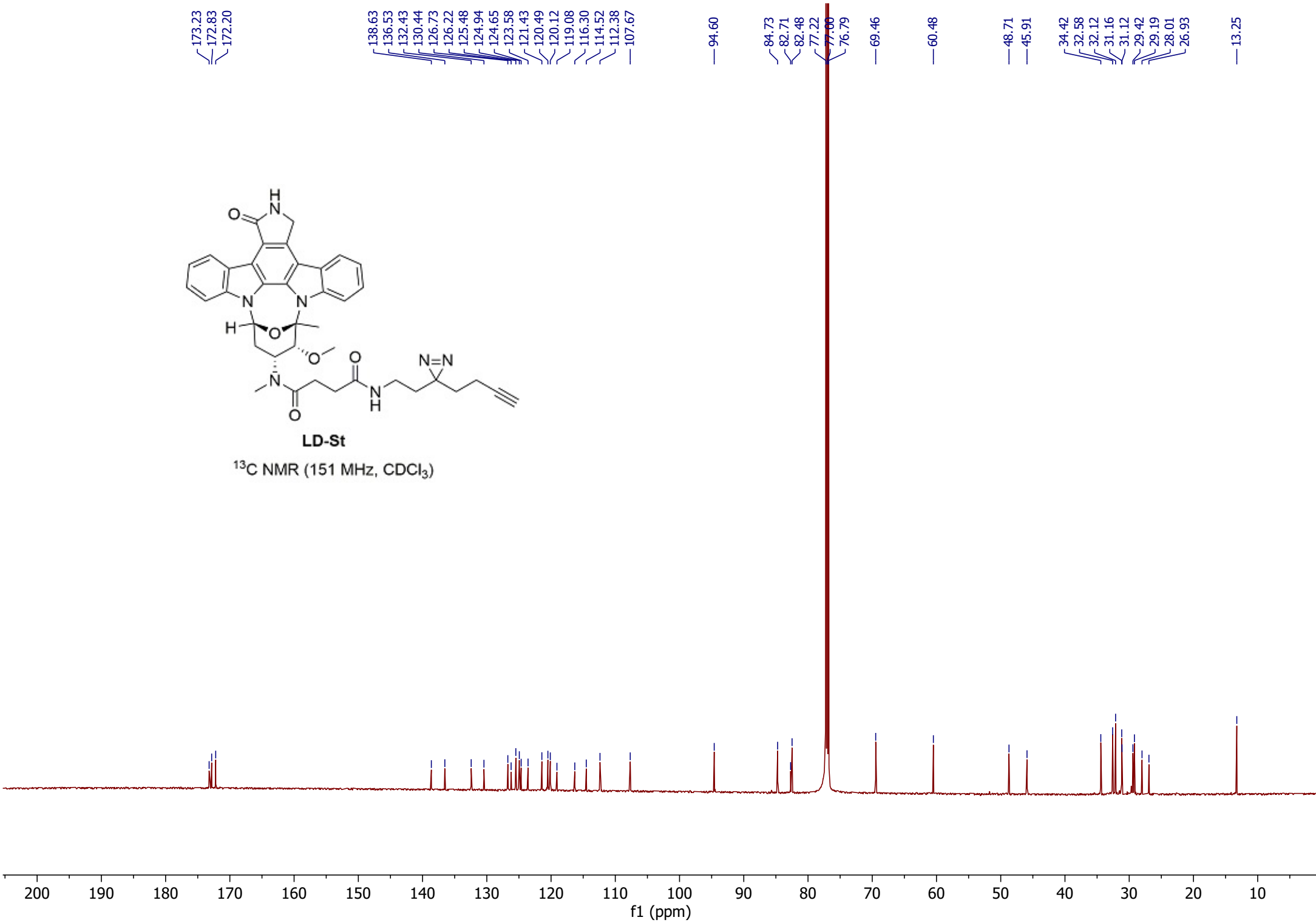
¹H NMR (600 MHz, CDCl₃)

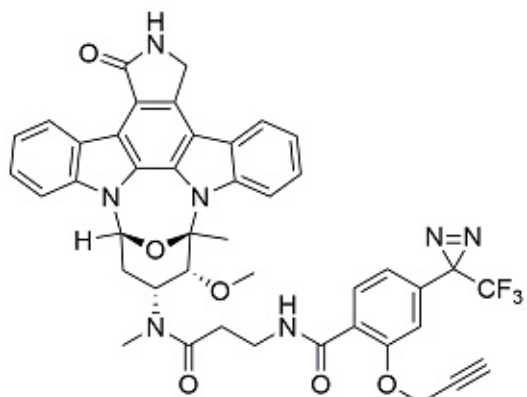




LD-St

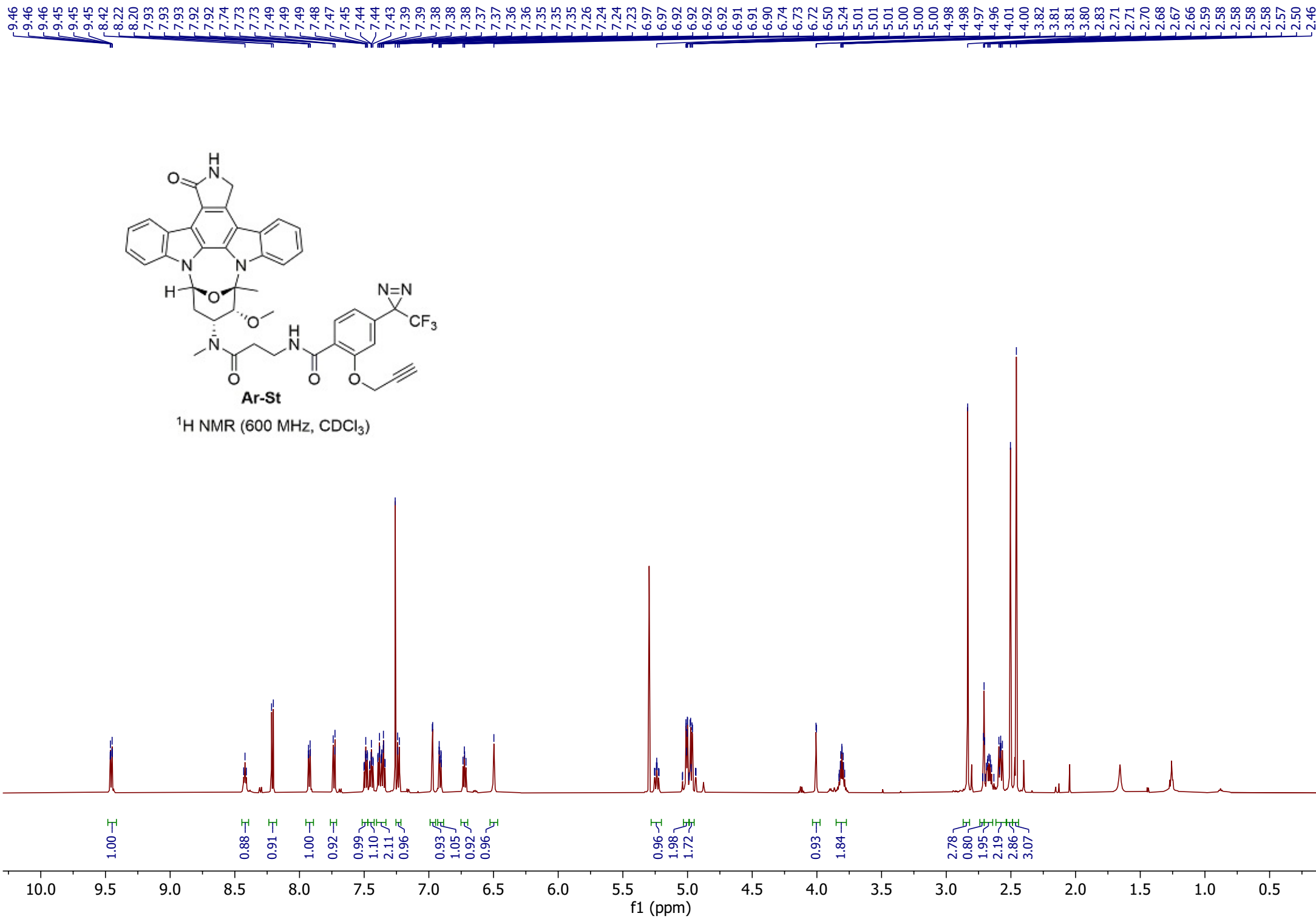
^{13}C NMR (151 MHz, CDCl_3)

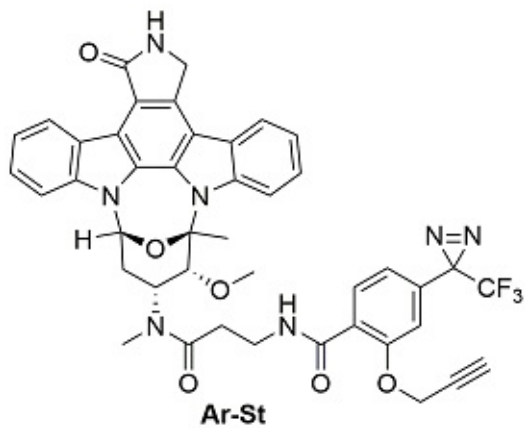




Ar-St

^1H NMR (600 MHz, CDCl_3)





^{13}C NMR (151 MHz, CDCl_3)

173.15
172.53

163.89

155.37

138.61

136.58

133.51

132.92

132.42

130.51

126.86

126.30

125.53

124.96

124.75

123.83

123.65

122.79

121.53

120.96

120.58

120.20

120.00

119.20

116.41

114.58

112.36

111.42

107.61

94.61

84.87

82.53

77.66

77.24

77.09

76.82

60.48

57.02

48.53

45.87

35.45

33.89

31.21

29.71

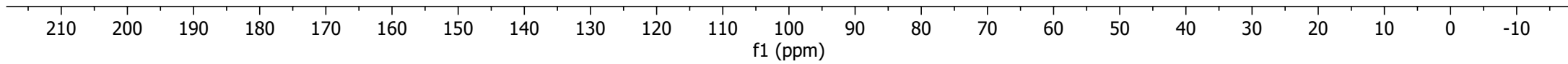
29.15

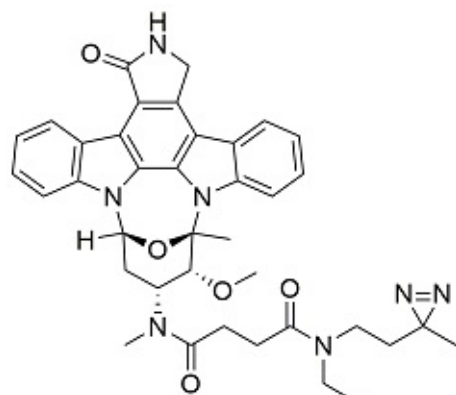
29.13

28.51

28.25

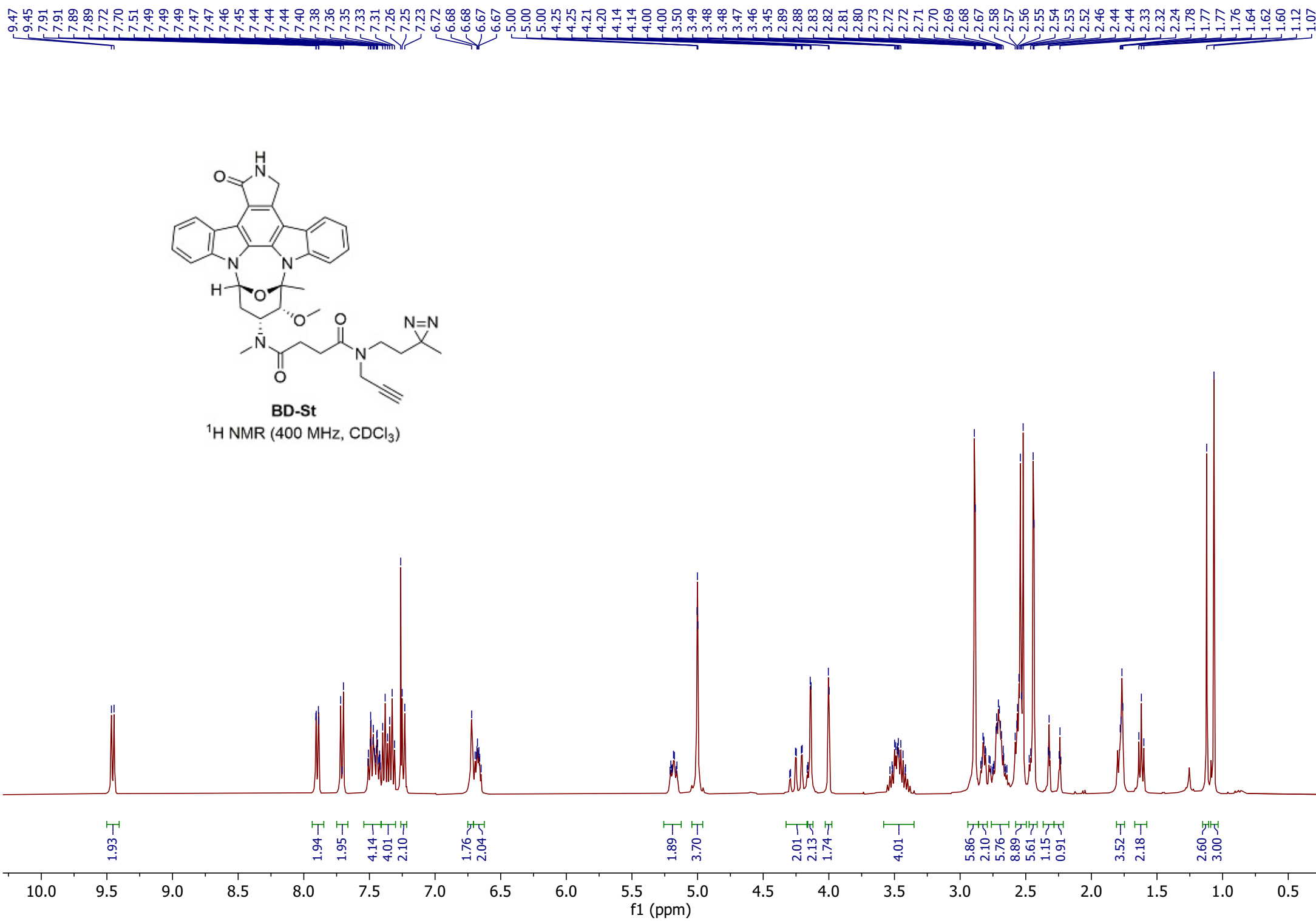
28.09

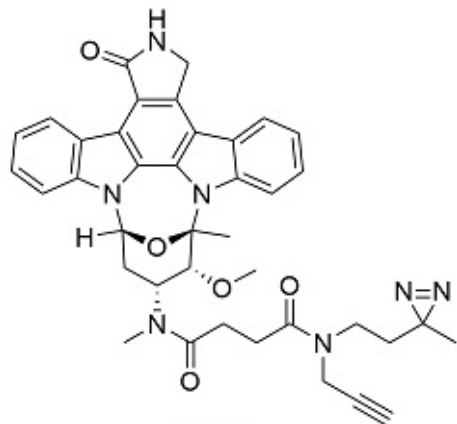




BD-St

$^1\text{H NMR}$ (400 MHz, CDCl_3)





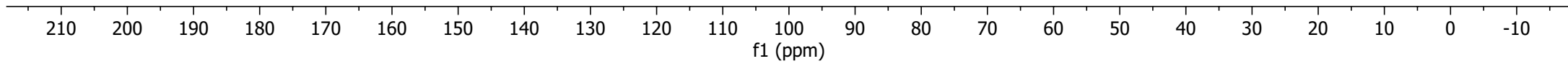
BD-St

¹³C NMR (101 MHz, CDCl₃)

173.25
172.81
172.76
171.78
171.24

138.75
138.71
136.57
132.47
130.46
126.79
126.22
126.18
125.47
124.91
124.88
124.70
123.63
121.44
120.45
120.10
119.16
116.37
114.54
112.52
112.45
107.67

94.67
84.68
82.52
78.84
78.39
77.35
77.24
77.04
76.80
76.72
73.01
72.20
60.58
60.53
48.74
48.69
45.91
42.16
42.10
37.76
34.56
33.55
32.78
31.21
29.28
29.23
28.95
28.82
28.35
28.03
24.35
23.98
19.87
19.63

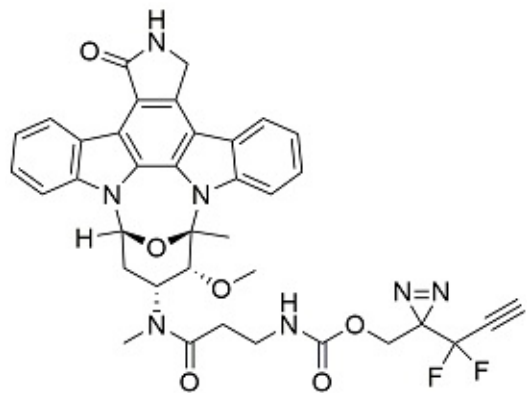


9.46
9.44
7.93
7.91
7.75
7.73
7.51
7.49
7.47
7.45
7.45
7.45
7.43
7.43
7.40
7.38
7.36
7.34
7.33
7.26
7.26
7.25
7.23
6.73
6.71
6.70
6.59

5.71
5.70
5.68
5.22
5.22
5.20
5.17
5.01
5.01

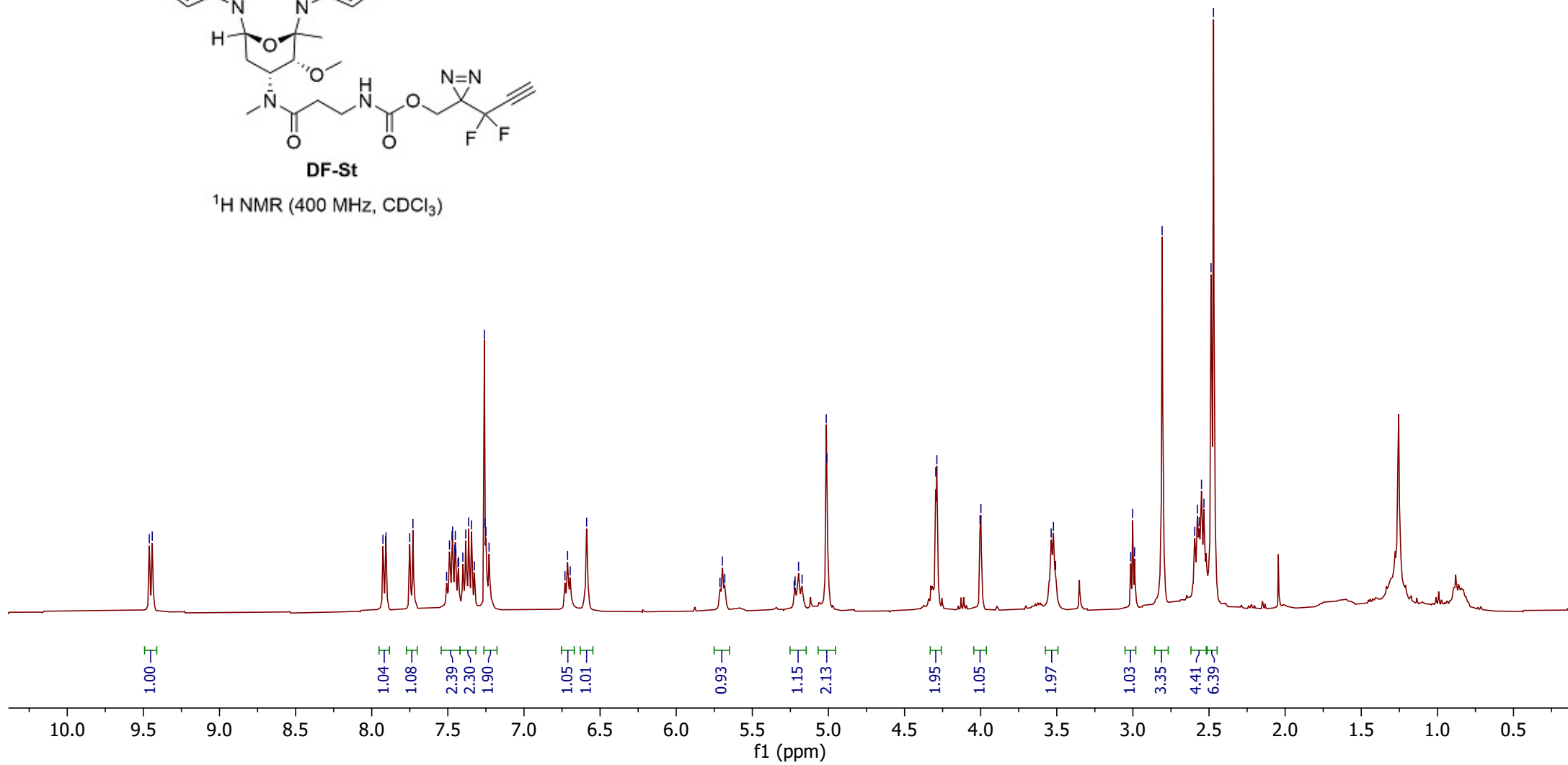
4.29
4.29
4.00
4.00

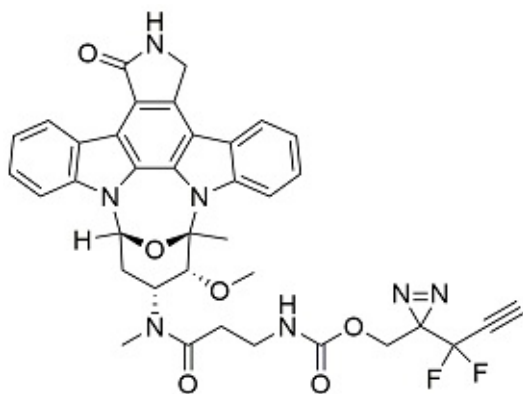
3.54
3.52
3.51
3.01
3.00
2.99
2.81
2.59
2.58
2.56
2.55
2.53
2.49
2.47



DF-St

¹H NMR (400 MHz, CDCl₃)

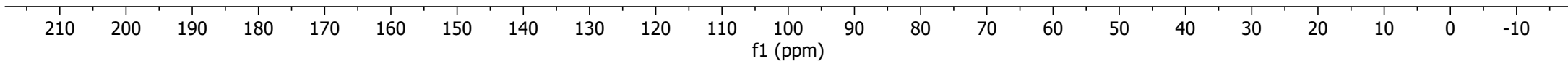


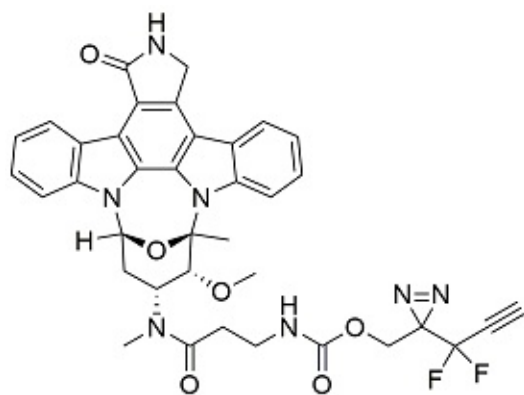


DF-St

¹³C NMR (151 MHz, CDCl₃)

173.26
173.23
172.26
155.17
155.14
138.65
138.63
136.59
136.57
132.46
132.44
130.52
130.50
126.85
126.31
126.28
125.55
125.52
125.05
124.73
124.70
123.66
123.64
123.64
121.50
120.59
120.56
120.20
120.20
119.17
116.39
114.60
114.57
112.40
110.20
107.67
107.65
94.61
94.58
84.84
84.82
82.49
82.46
80.58
80.53
72.73
60.52
60.49
60.00
59.97
48.61
48.58
45.93
45.91
36.83
34.01
31.19
31.16
29.88
29.73
29.65
29.20
29.18
28.06
28.03

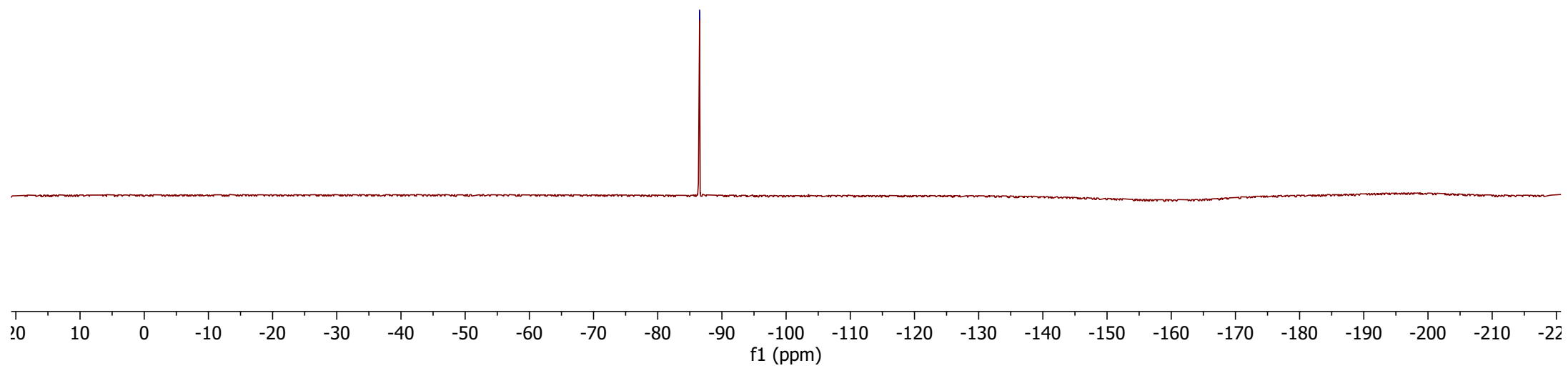


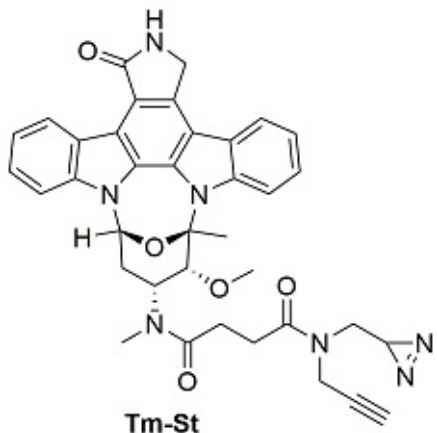


DF-St

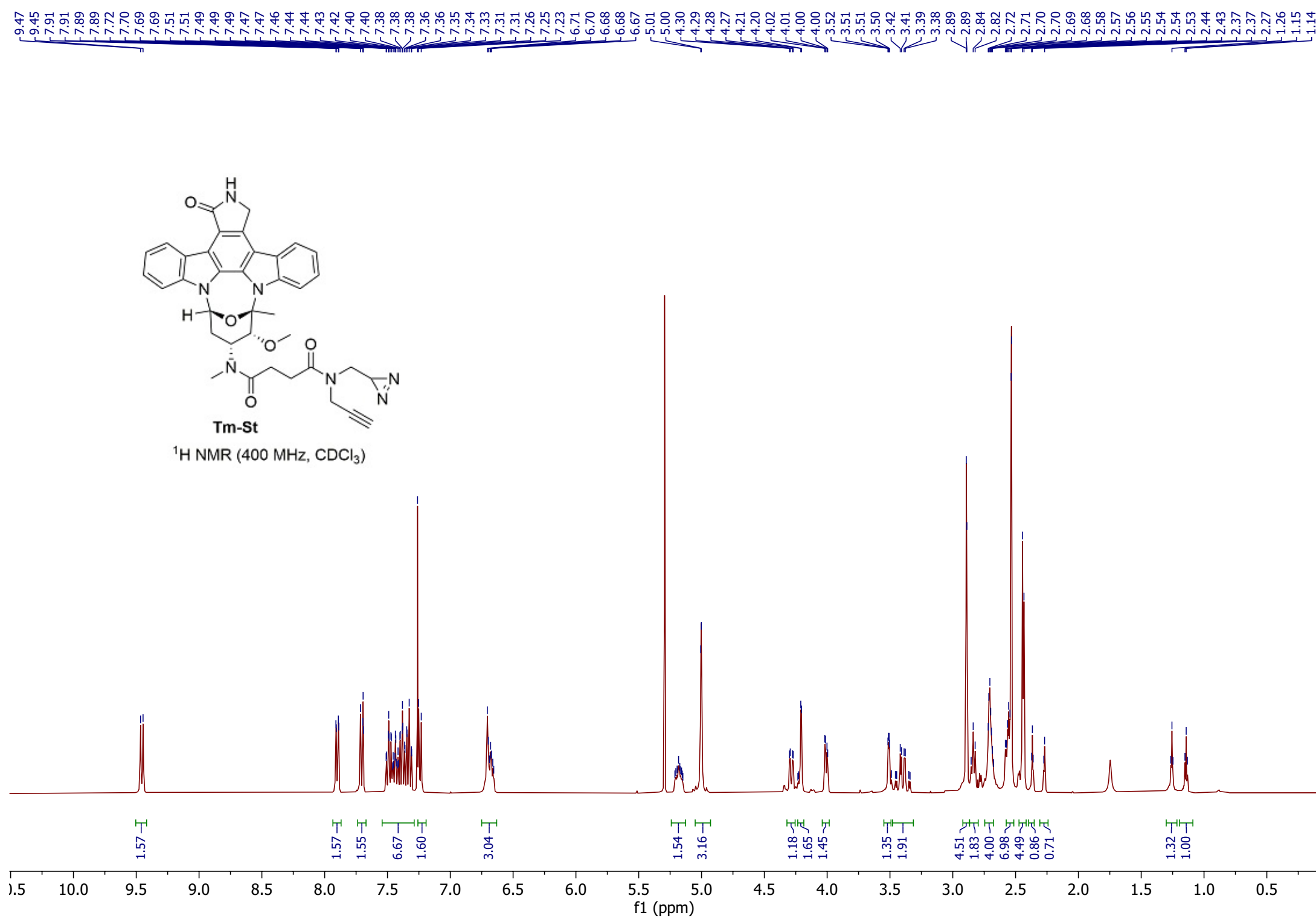
^{19}F NMR (376 MHz, CDCl_3)

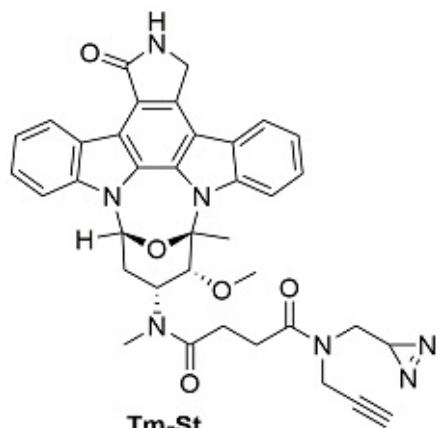
-86.52
-86.54





$^1\text{H NMR}$ (400 MHz, CDCl_3)





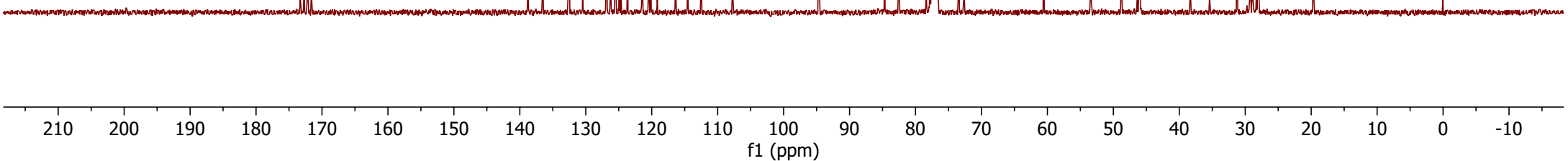
¹³C NMR (101 MHz, CDCl₃)

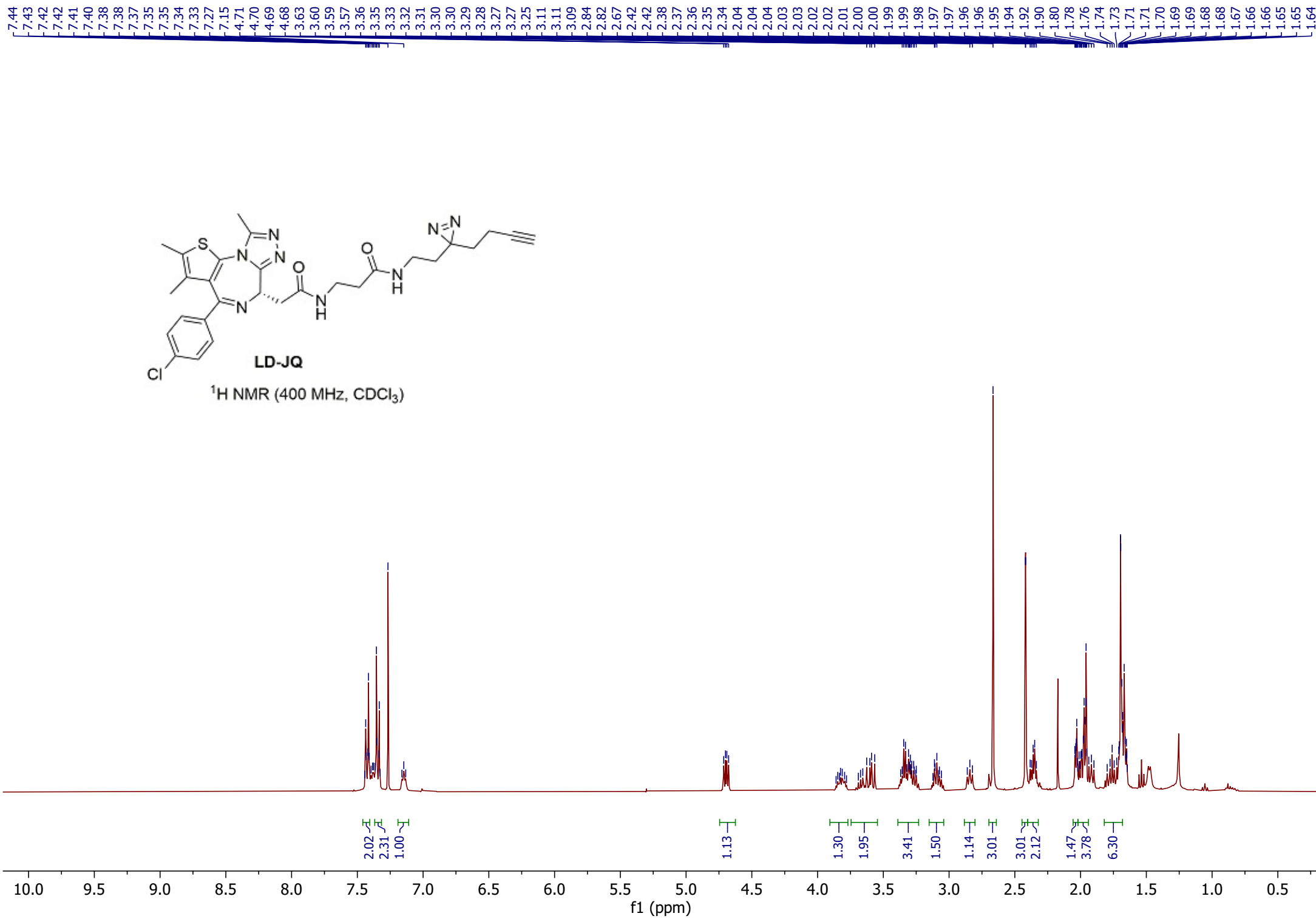
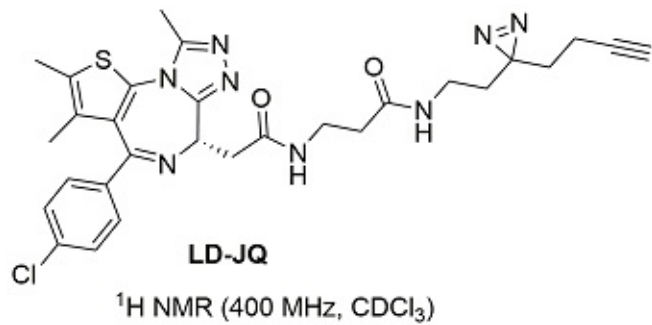
173.27
172.70
172.66
172.15
171.62

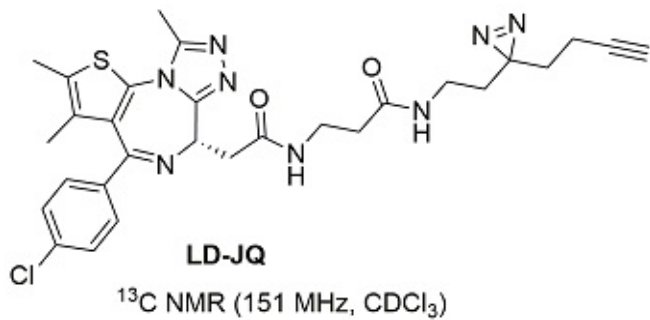
138.74
136.57
132.49
130.47
126.81
126.22
125.49
124.91
124.70
123.64
121.45
120.47
120.12
119.17
116.37
114.55
112.49
107.69
— 94.68

84.66
82.53
77.37
77.05
76.73
73.40
72.66

60.58
53.45
48.77
46.35
46.06
45.93
38.31
35.38
31.24
29.28
29.24
28.94
28.88
28.31
28.10
28.03
19.66







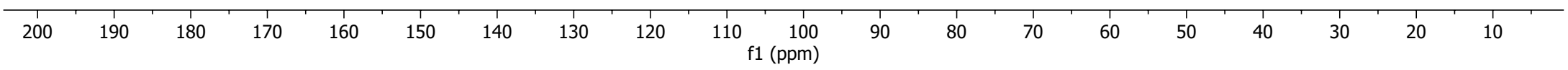
171.94
 170.65
 164.22
 155.72
 149.93
 136.95
 136.45
 132.03
 131.08
 130.90
 130.50
 129.88
 128.78

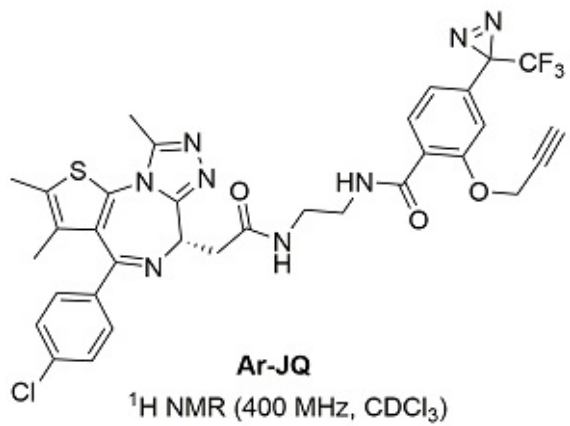
82.75
 77.25
 77.03
 76.82
 69.69
 69.32

54.46

39.14
 37.04
 36.40
 35.19
 34.63
 32.01
 31.69
 27.51

14.40
 13.25
 13.13
 11.83

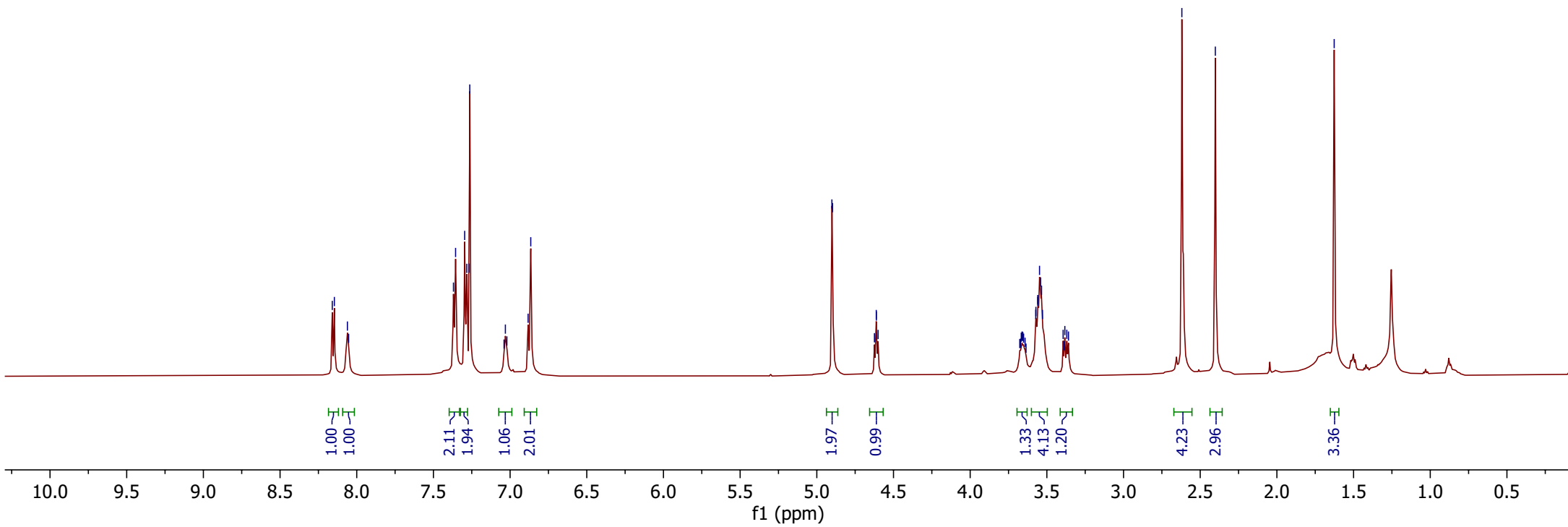


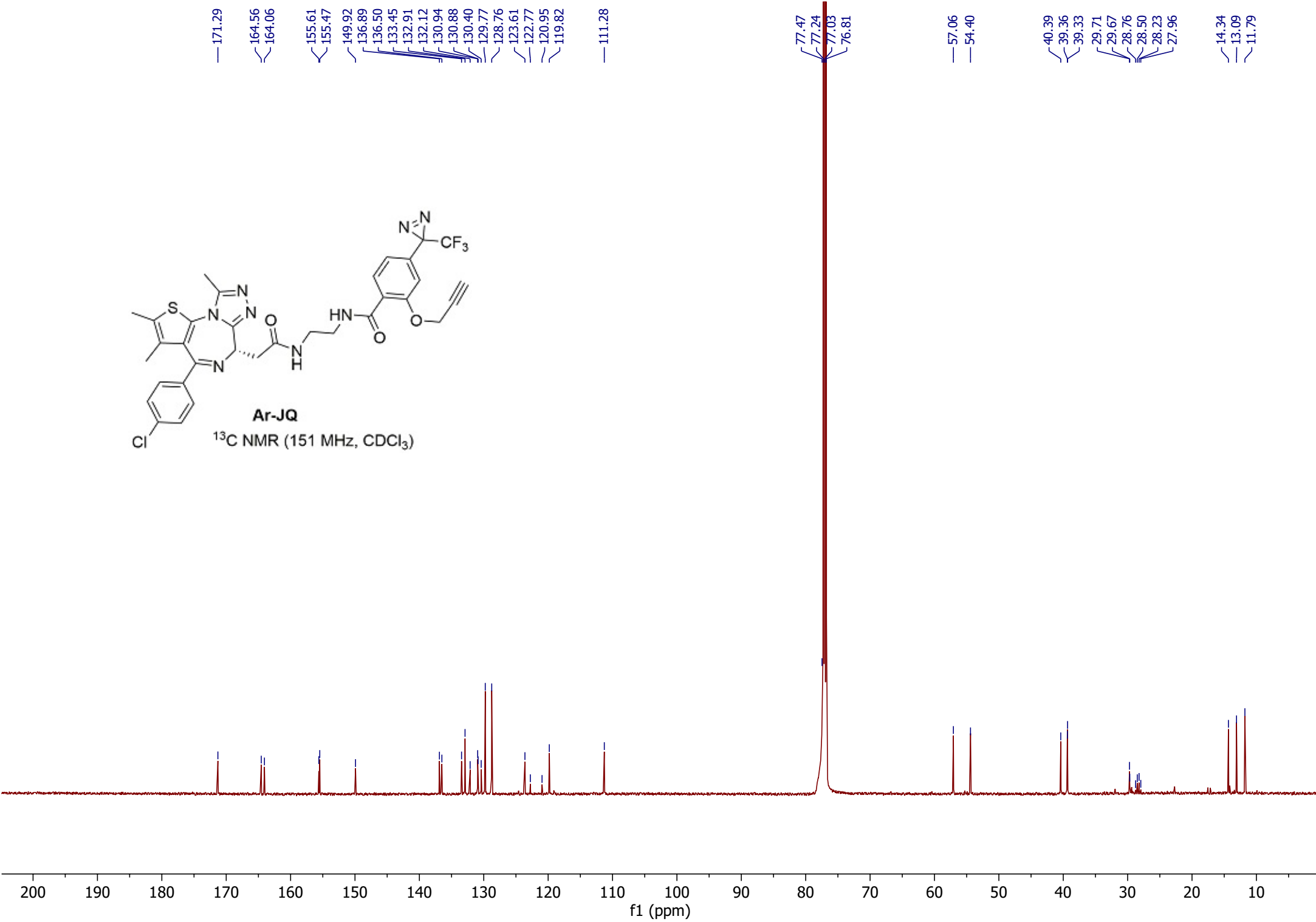
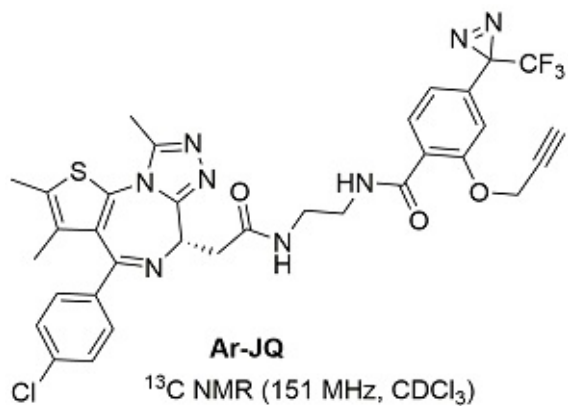


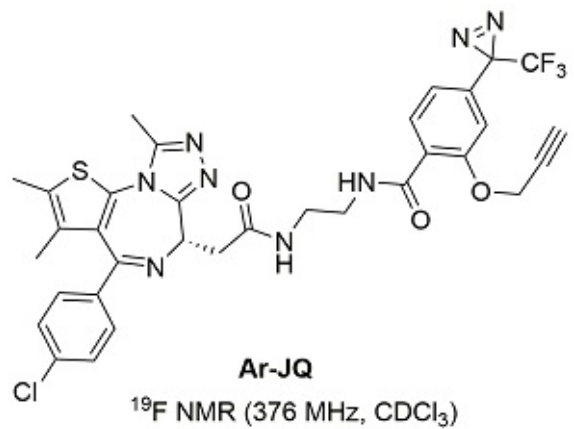
8.16
8.15
8.06
8.05
7.37
7.36
7.30
7.28
7.27
7.26
7.04
7.03
7.02
6.88
6.87

4.90
4.90
4.62
4.61
4.61
4.60

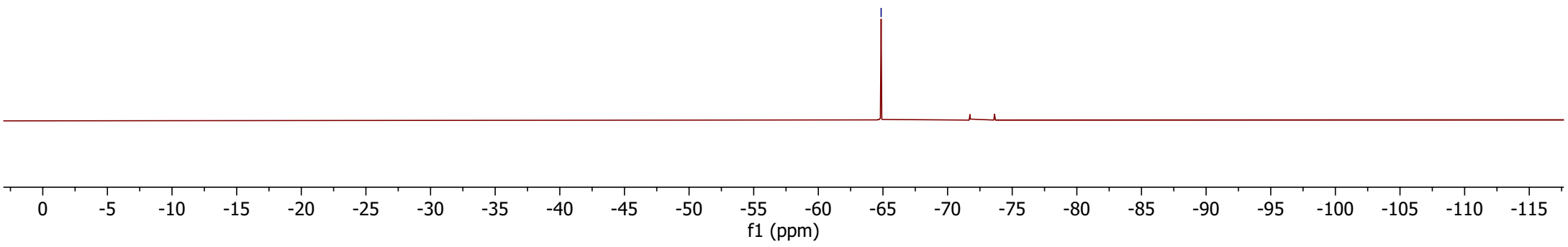
3.68
3.67
3.67
3.66
3.66
3.65
3.64
3.64
3.57
3.57
3.56
3.56
3.55
3.55
3.54
3.53
3.53
3.39
3.39
3.38
3.37
3.36
2.62
2.40
1.63

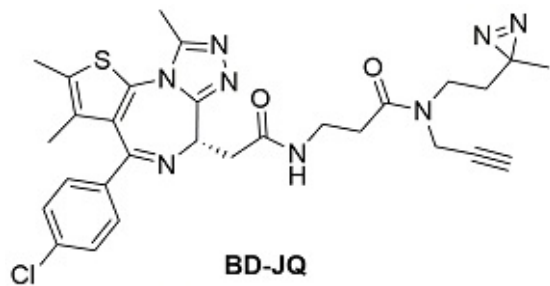




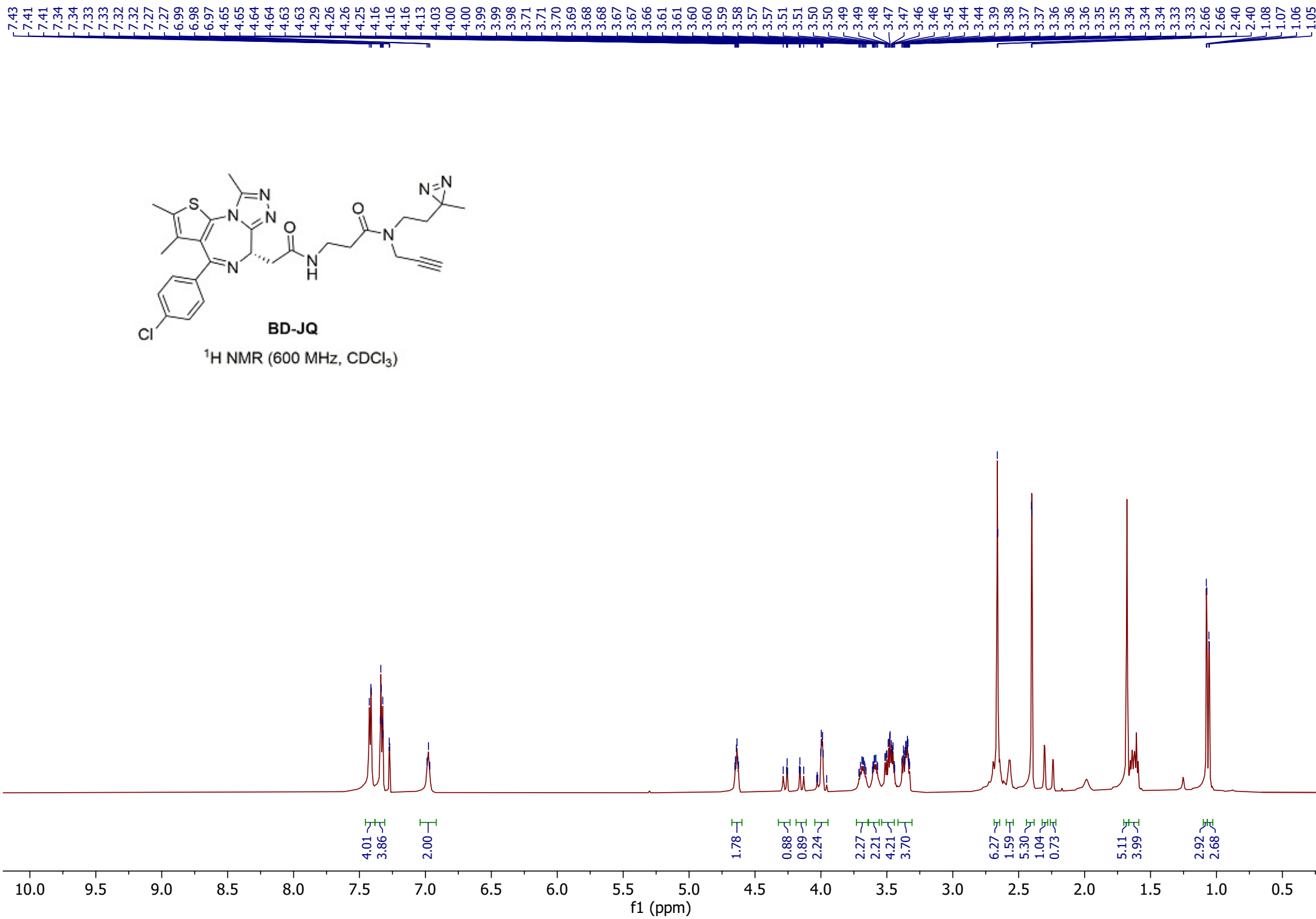


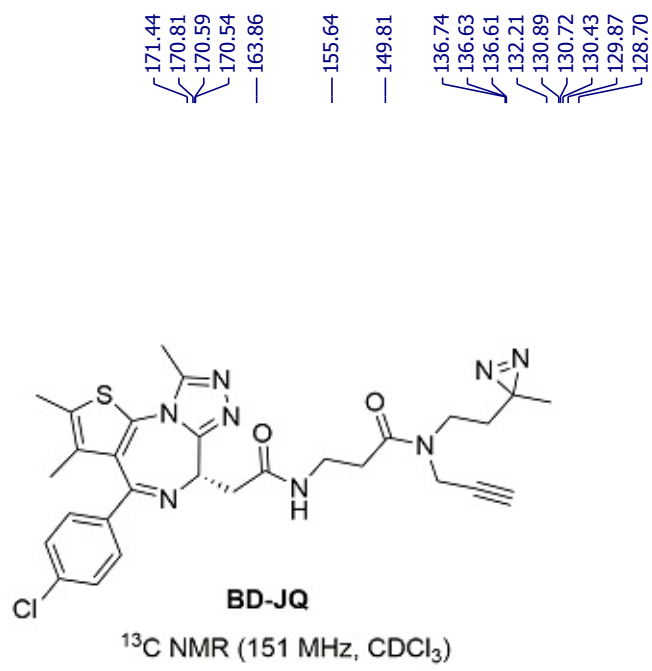
—64.86





¹H NMR (600 MHz, CDCl₃)

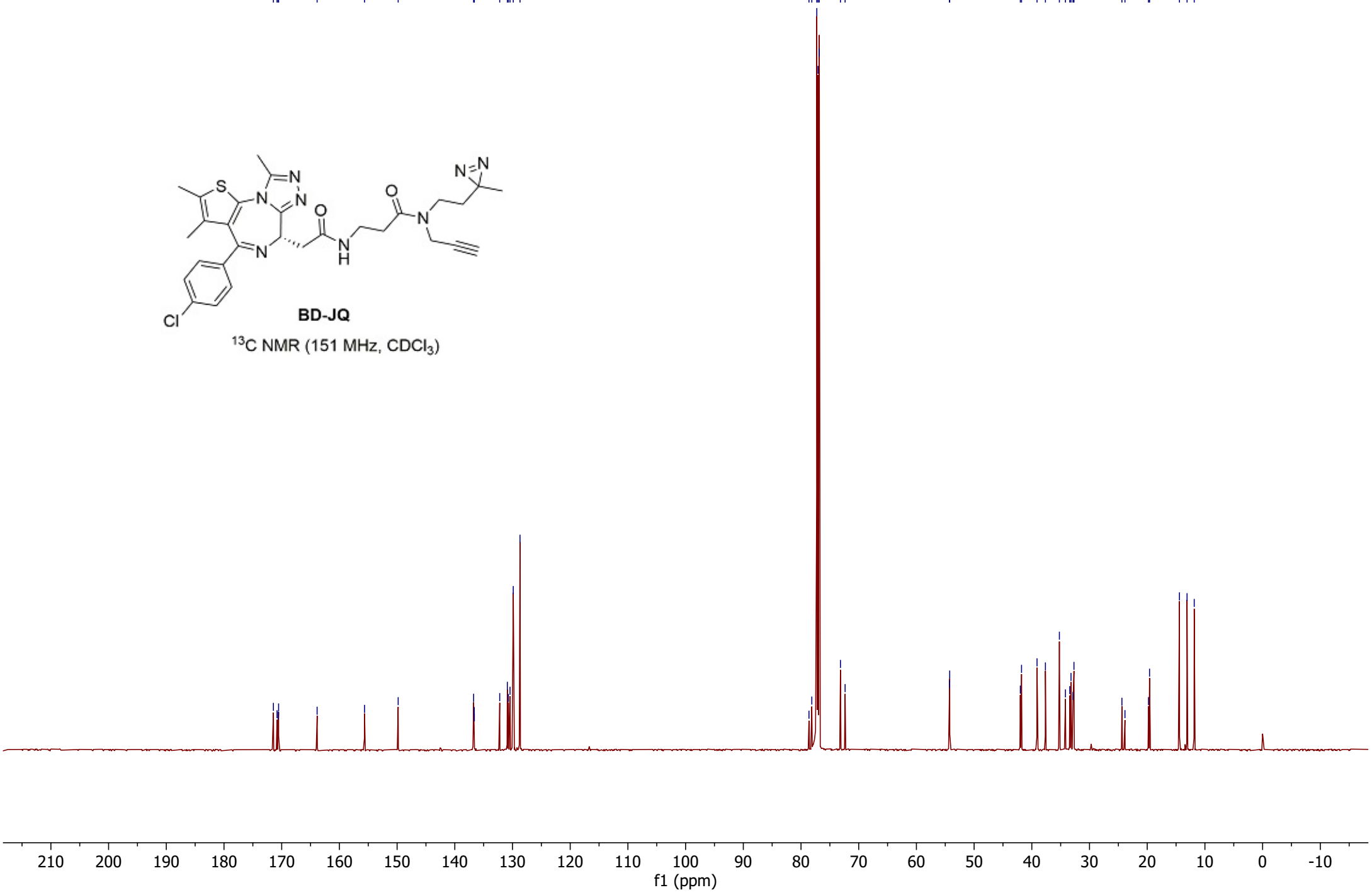




171.44
170.81
170.59
170.54
163.86
155.64
149.81
136.74
136.63
136.61
132.21
130.89
130.72
130.43
129.87
128.70

78.62
78.13
77.26
77.05
76.84
73.16
72.36

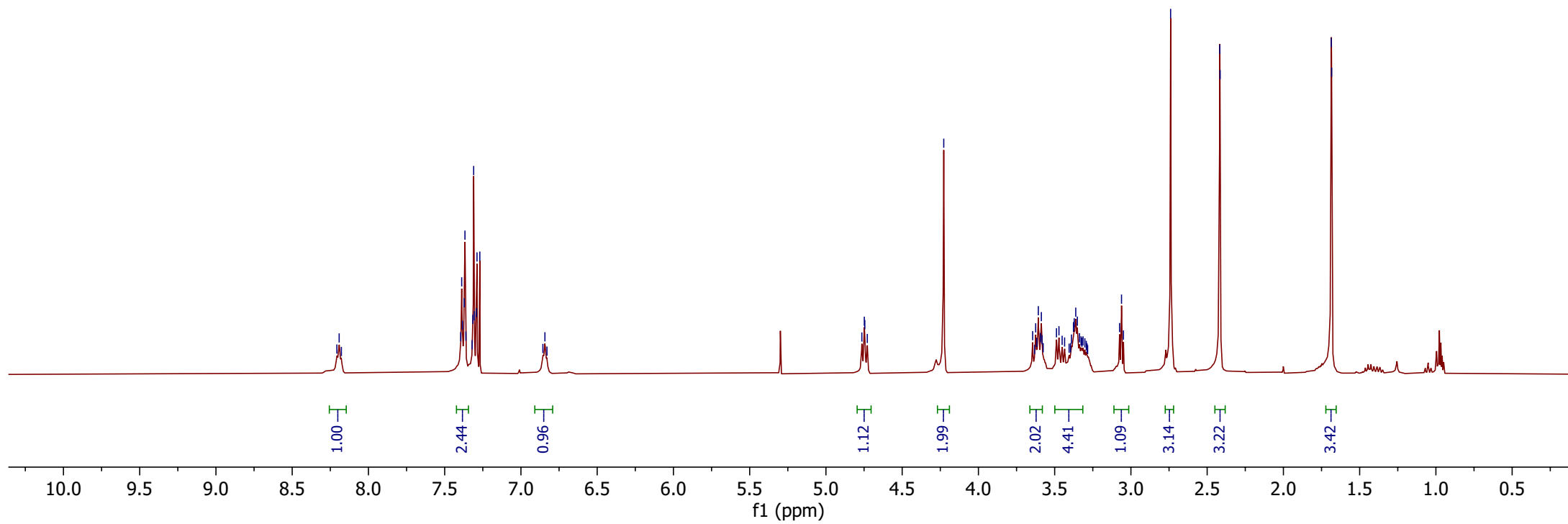
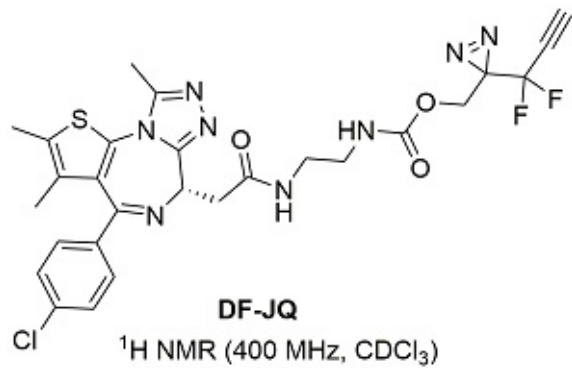
54.27
54.23
41.99
41.78
39.10
37.64
35.22
34.18
33.42
33.21
32.87
32.70
24.38
23.86
19.78
19.59
14.42
13.10
11.85

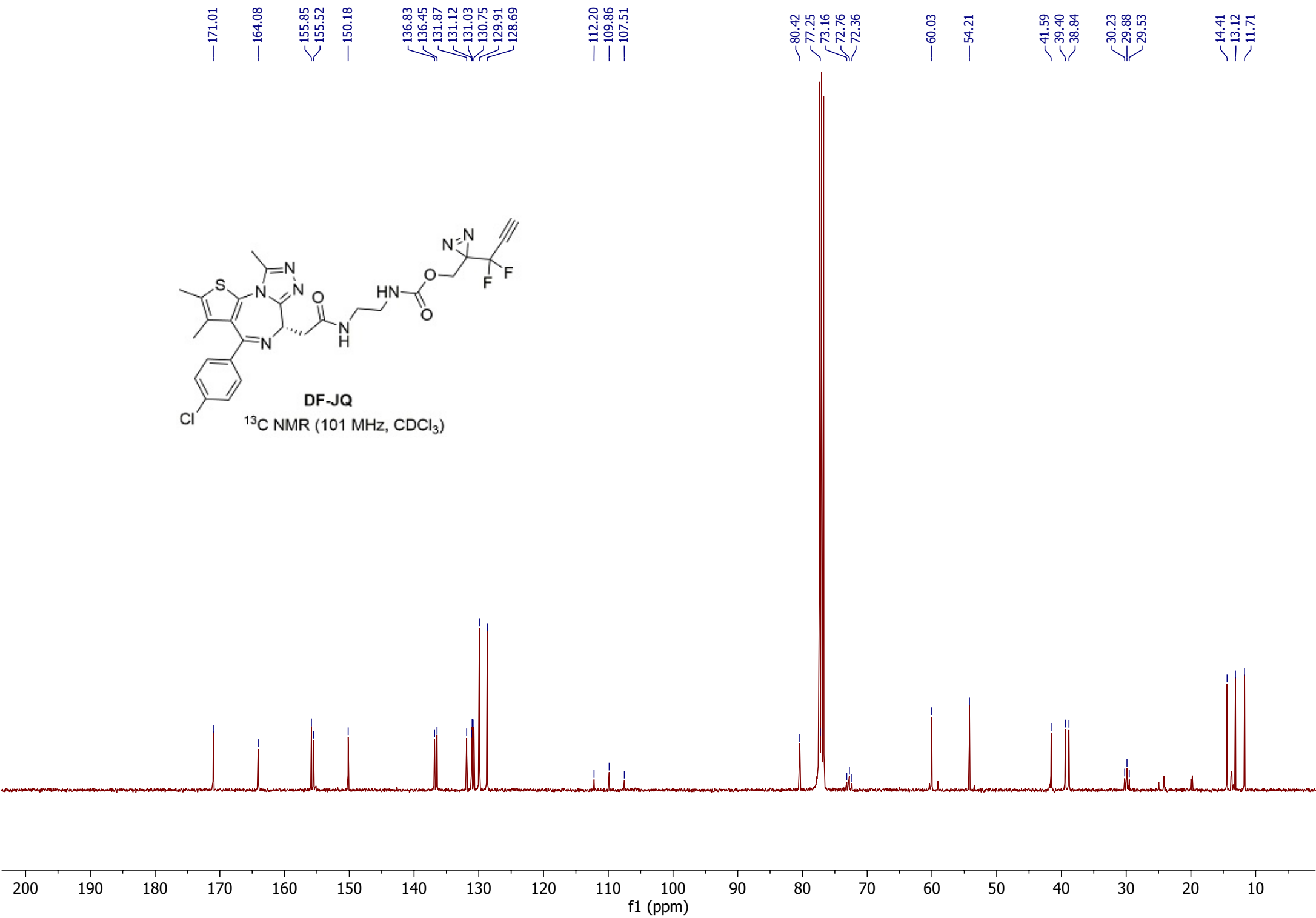
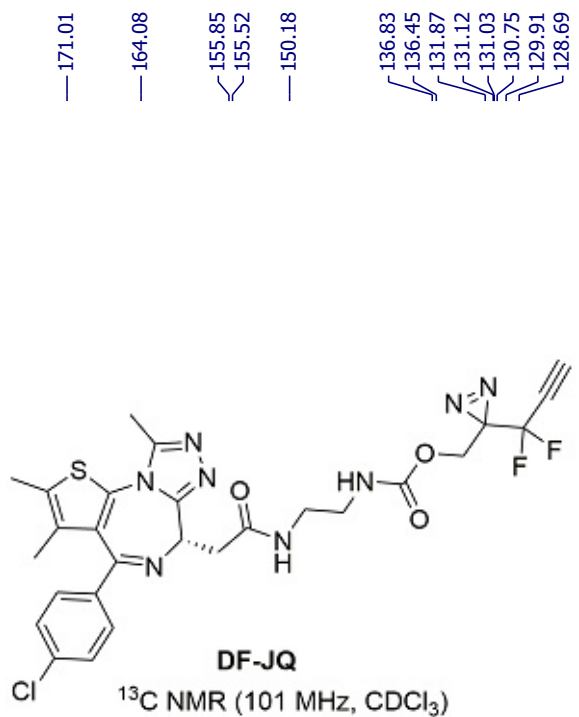


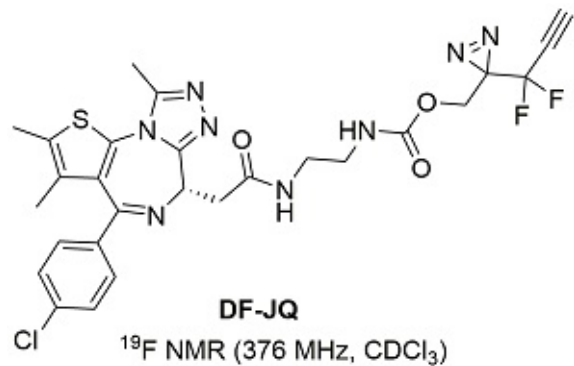
8.21
8.19
8.18
7.39
7.38
7.37
7.37
7.36
7.32
7.32
7.31
7.31
7.29
7.27
6.86
6.84
6.83

4.76
4.75
4.75
4.73

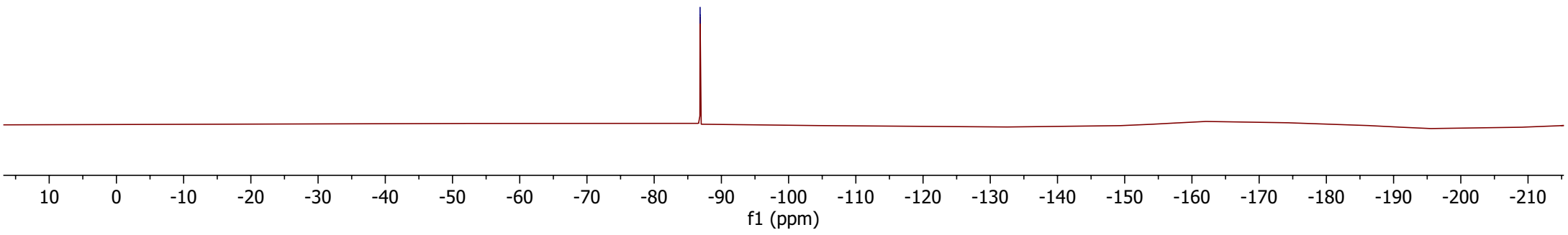
4.23
3.64
3.62
3.62
3.61
3.59
3.58
3.58
3.49
3.47
3.45
3.43
3.40
3.39
3.38
3.38
3.37
3.36
3.35
3.34
3.33
3.32
3.31
3.30
3.29
3.29
3.07
3.06
3.05
2.74
2.42
2.42
1.69
1.68

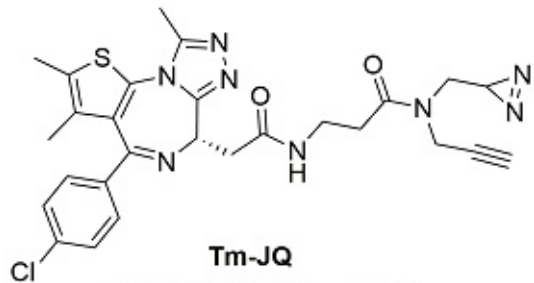




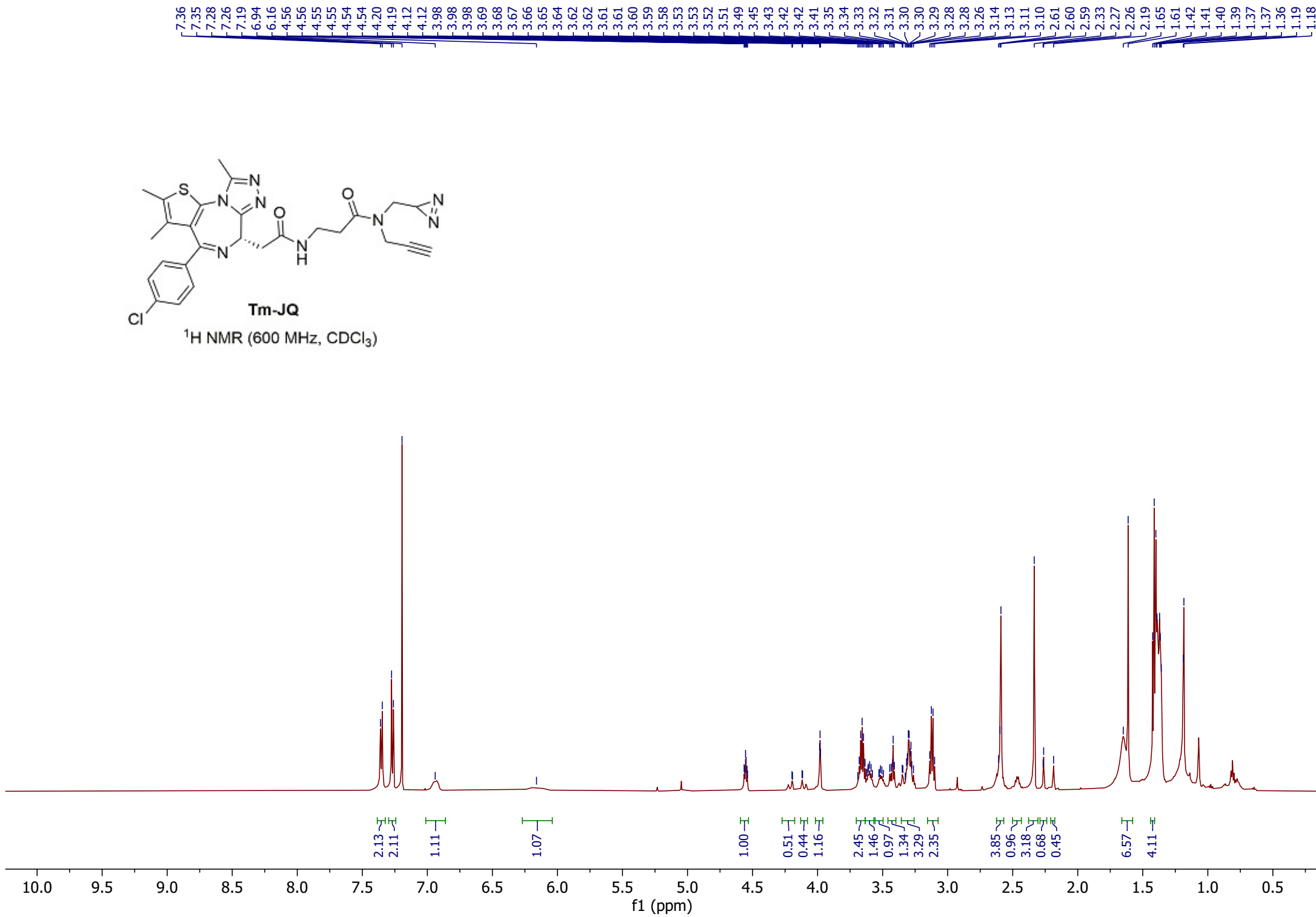


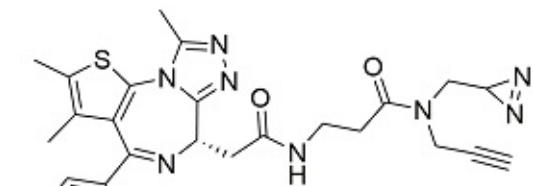
-86.83
-86.85





¹H NMR (600 MHz, CDCl₃)





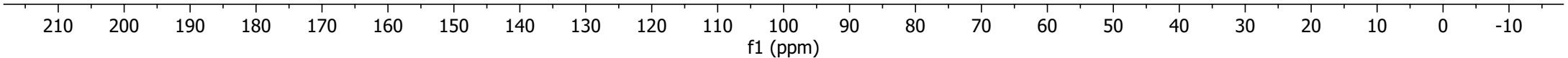
Tm-JQ

¹³C NMR (151 MHz, CDCl₃)

171.74
171.17
170.73
170.66
164.02
155.63
149.91
136.85
136.56
132.14
130.94
130.90
130.48
129.90
128.75

77.25
77.04
76.83
73.52
72.73

55.79
54.27
54.23
45.84
43.75
39.06
38.24
35.13
35.08
33.10
32.86
29.72
19.55
19.44
18.62
17.23
14.42
13.12
12.56
11.83



f1 (ppm)