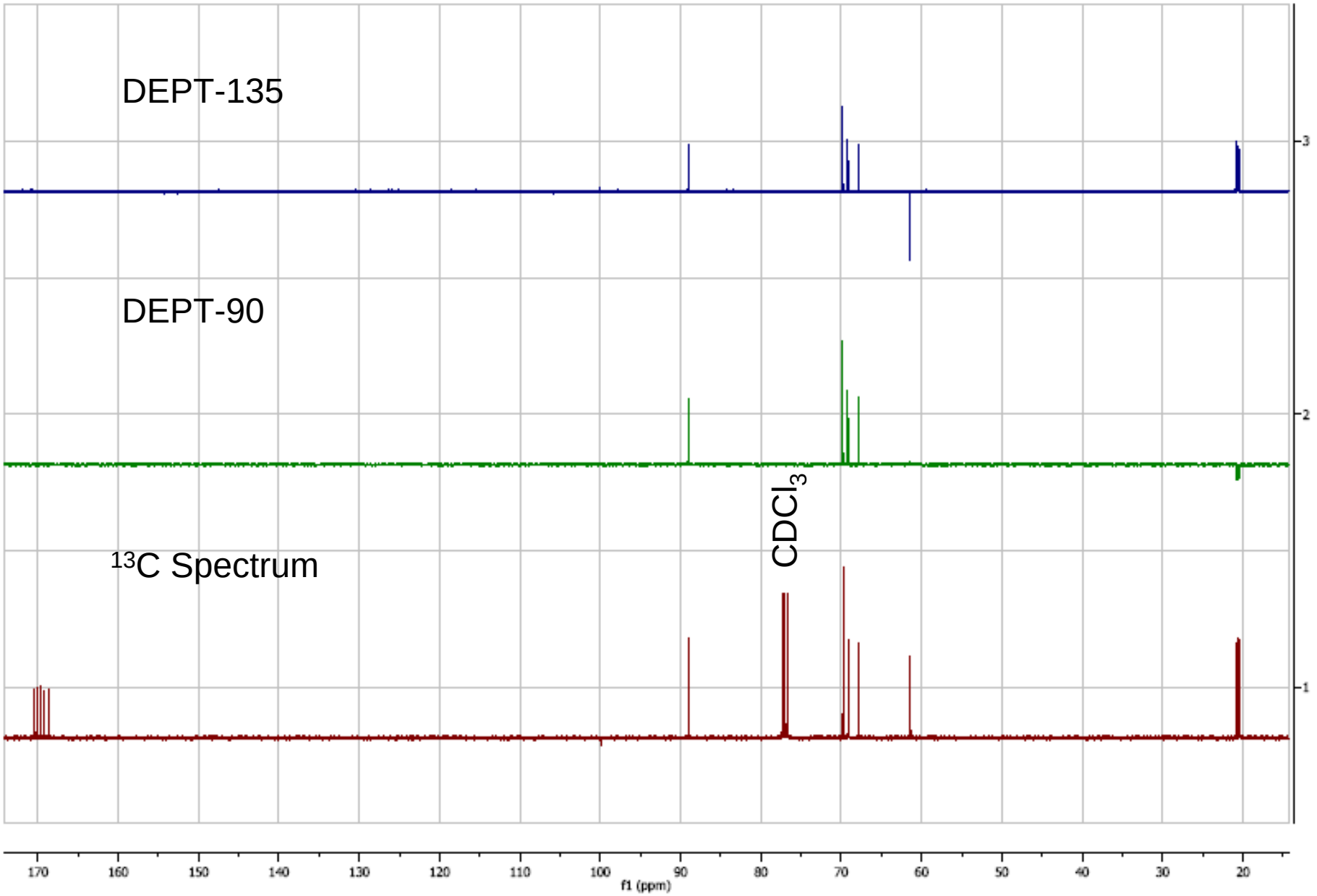
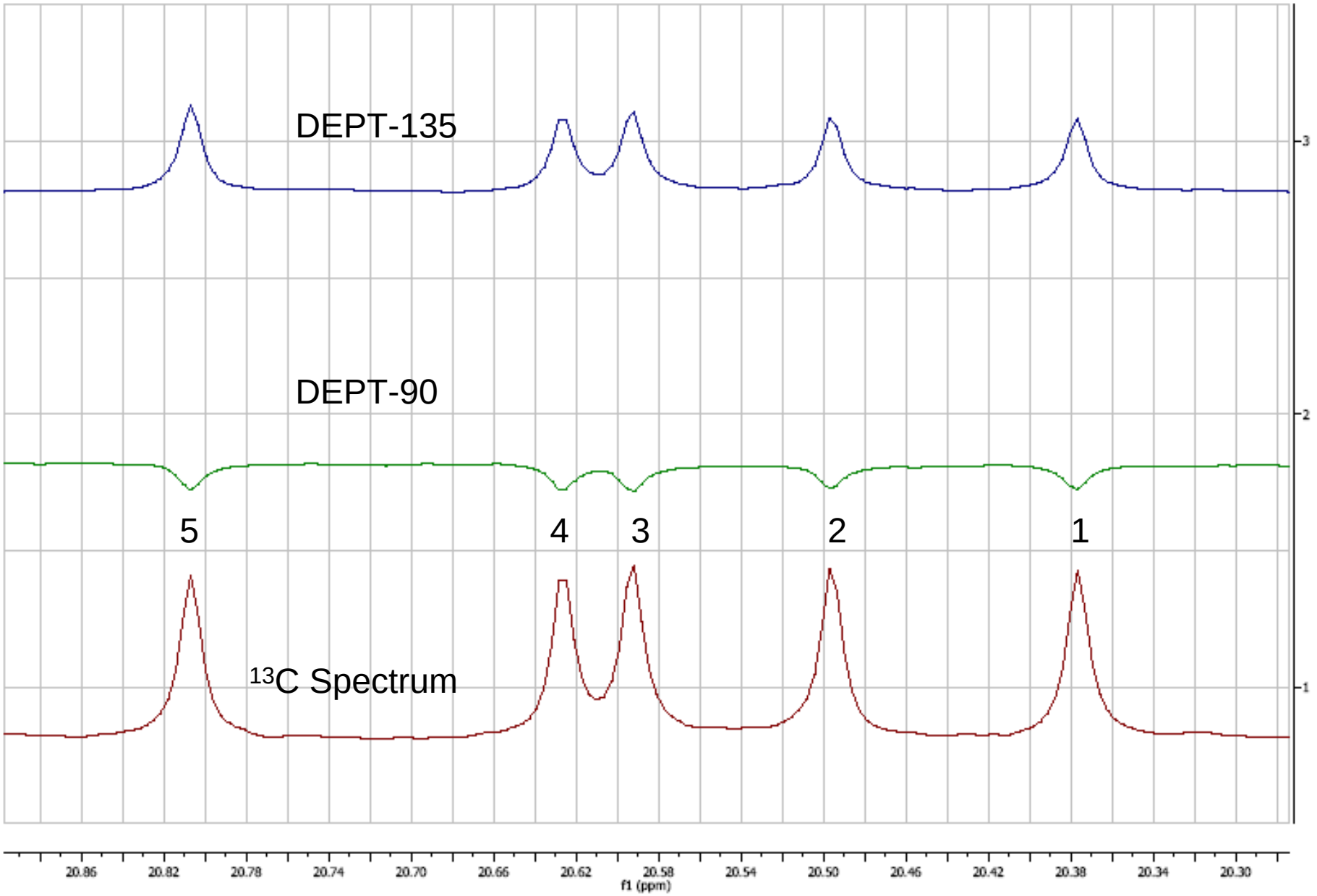
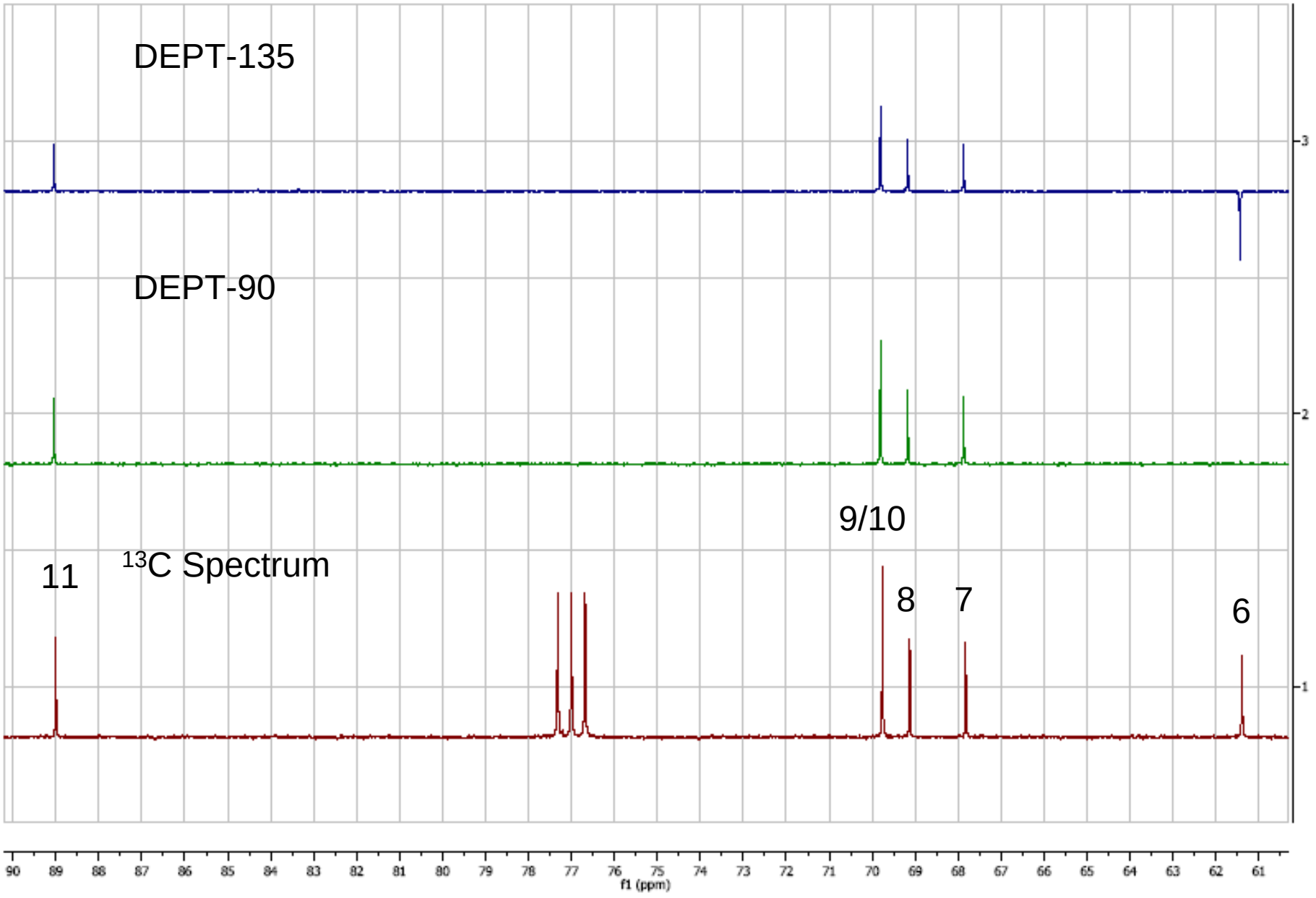
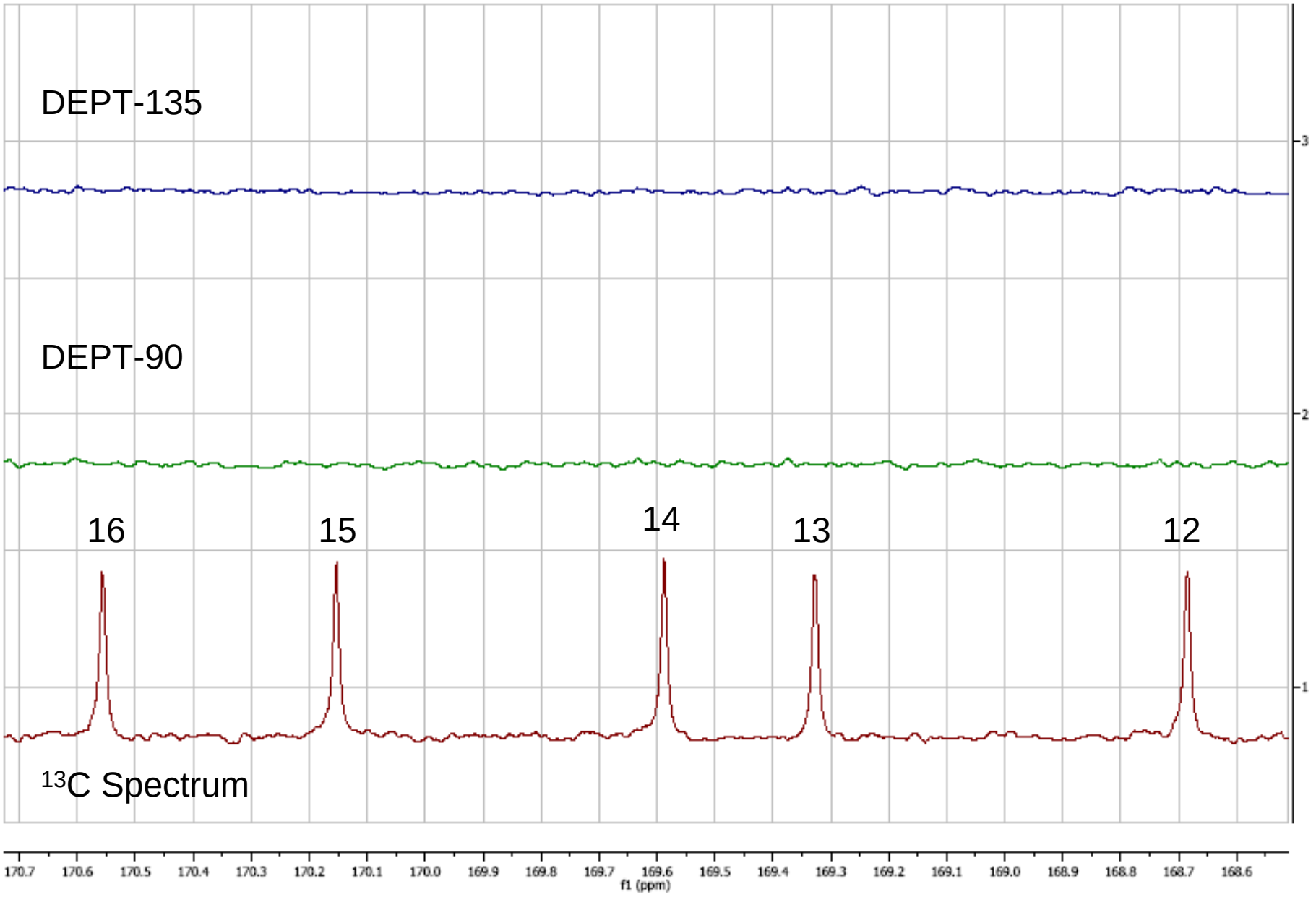
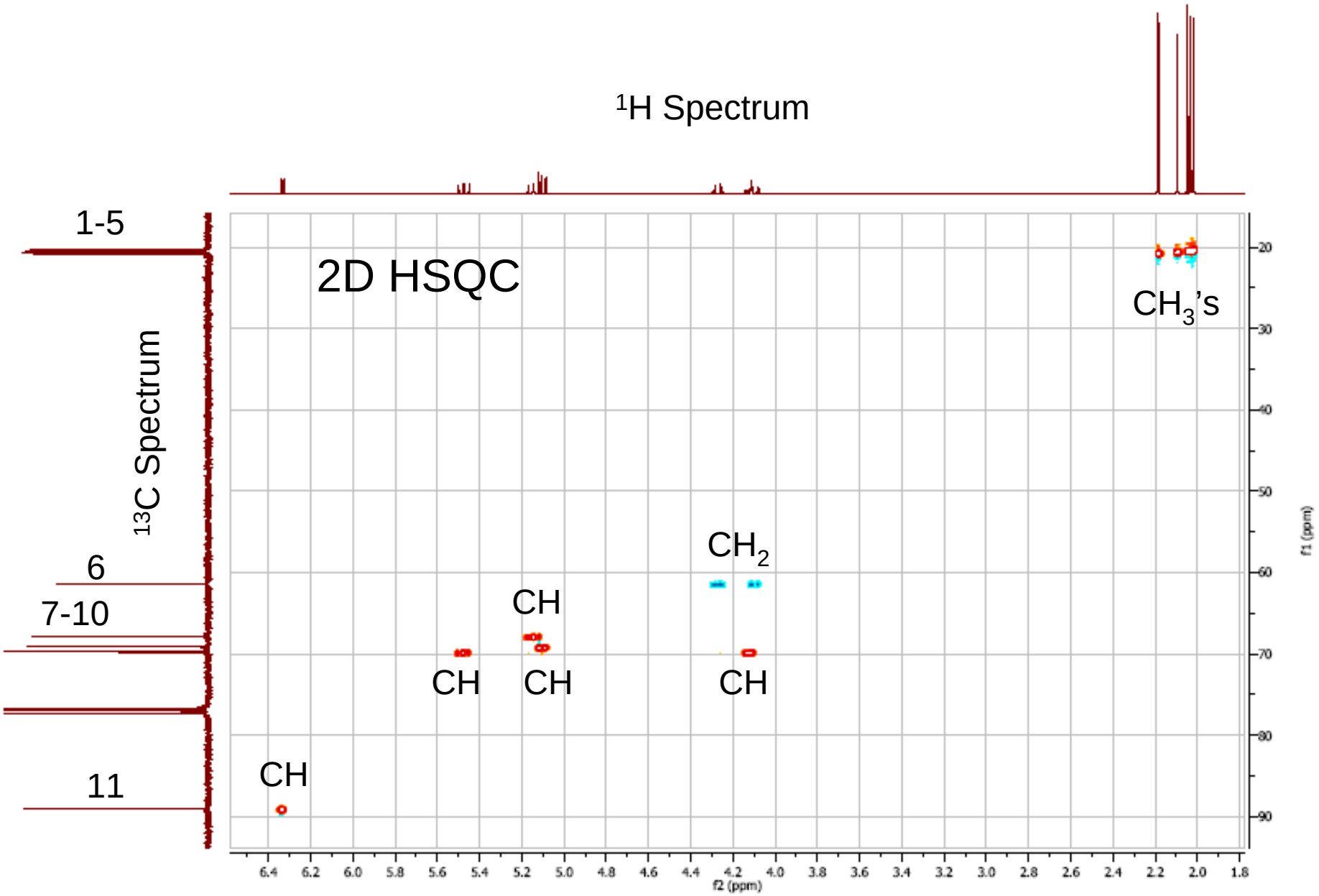
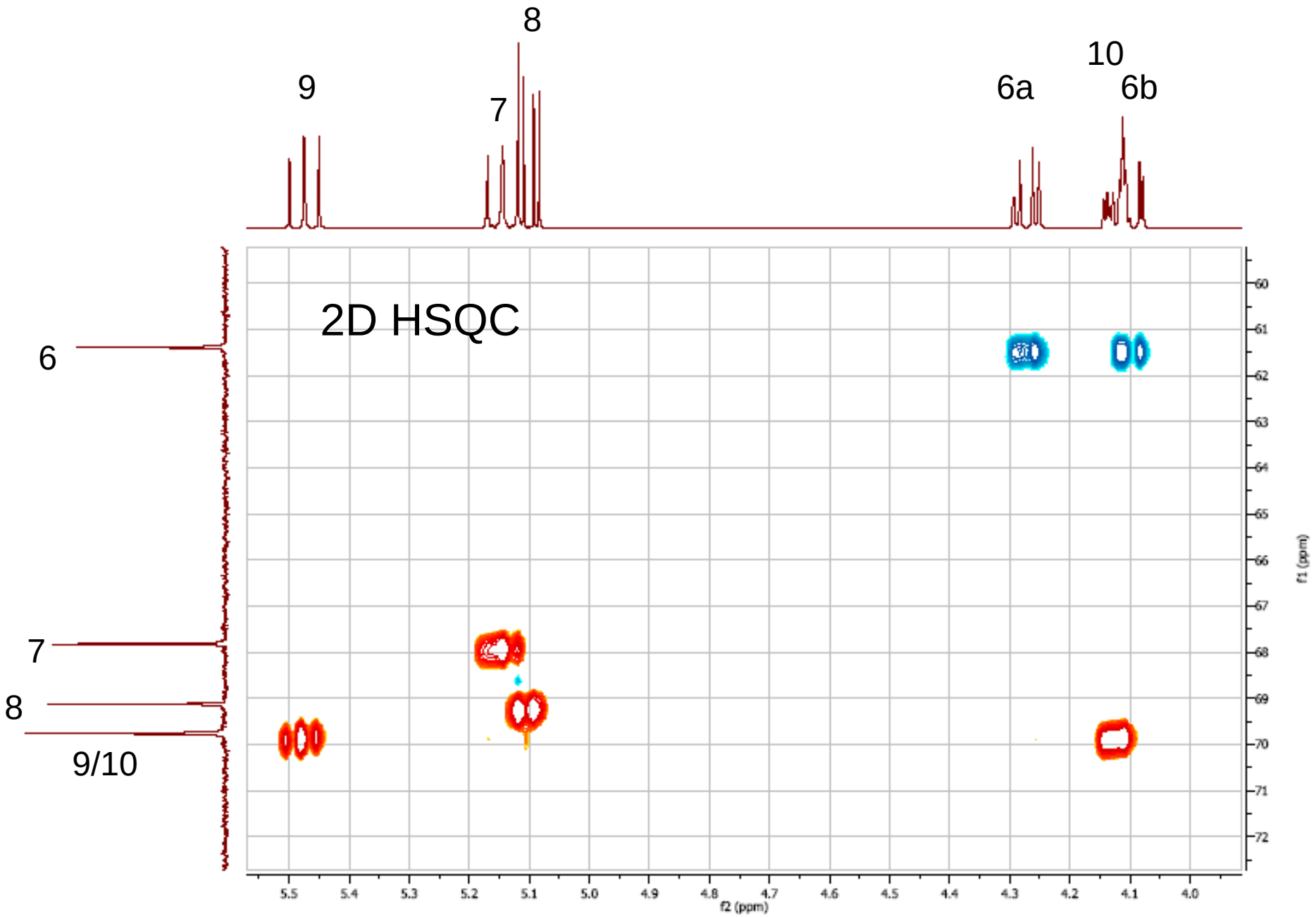

DEPT-135
DEPT-90
^{13}C Spectrum
$CDCl_3$
3
2
1
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
f1 (ppm)

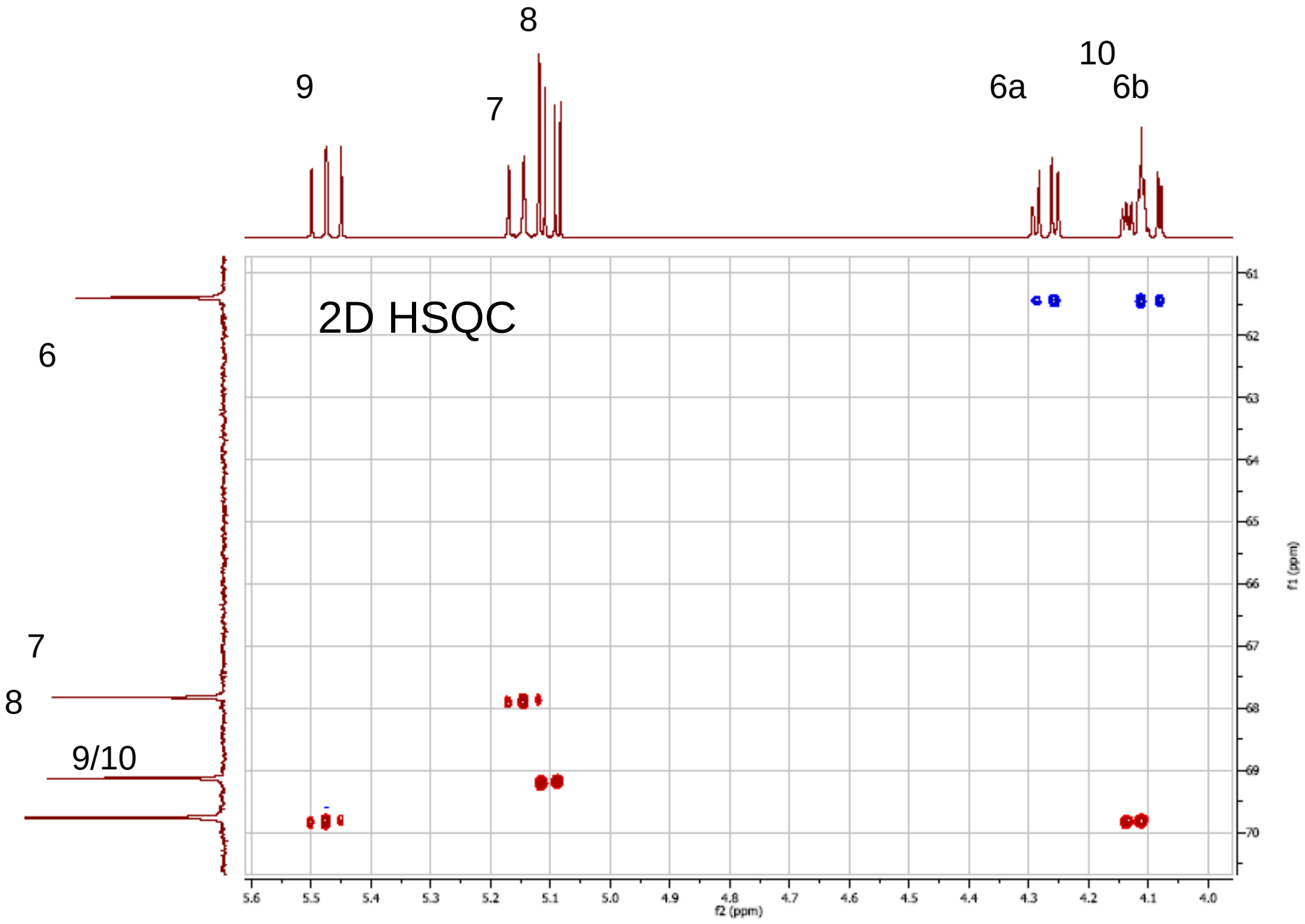

DEPT-135
DEPT-90
5
4
3
2
1
13C Spectrum
3
2
1
20.86
20.82
20.78
20.74
20.70
20.66
20.62
20.58
20.54
20.50
20.46
20.42
20.38
20.34
20.30
f1 (ppm)

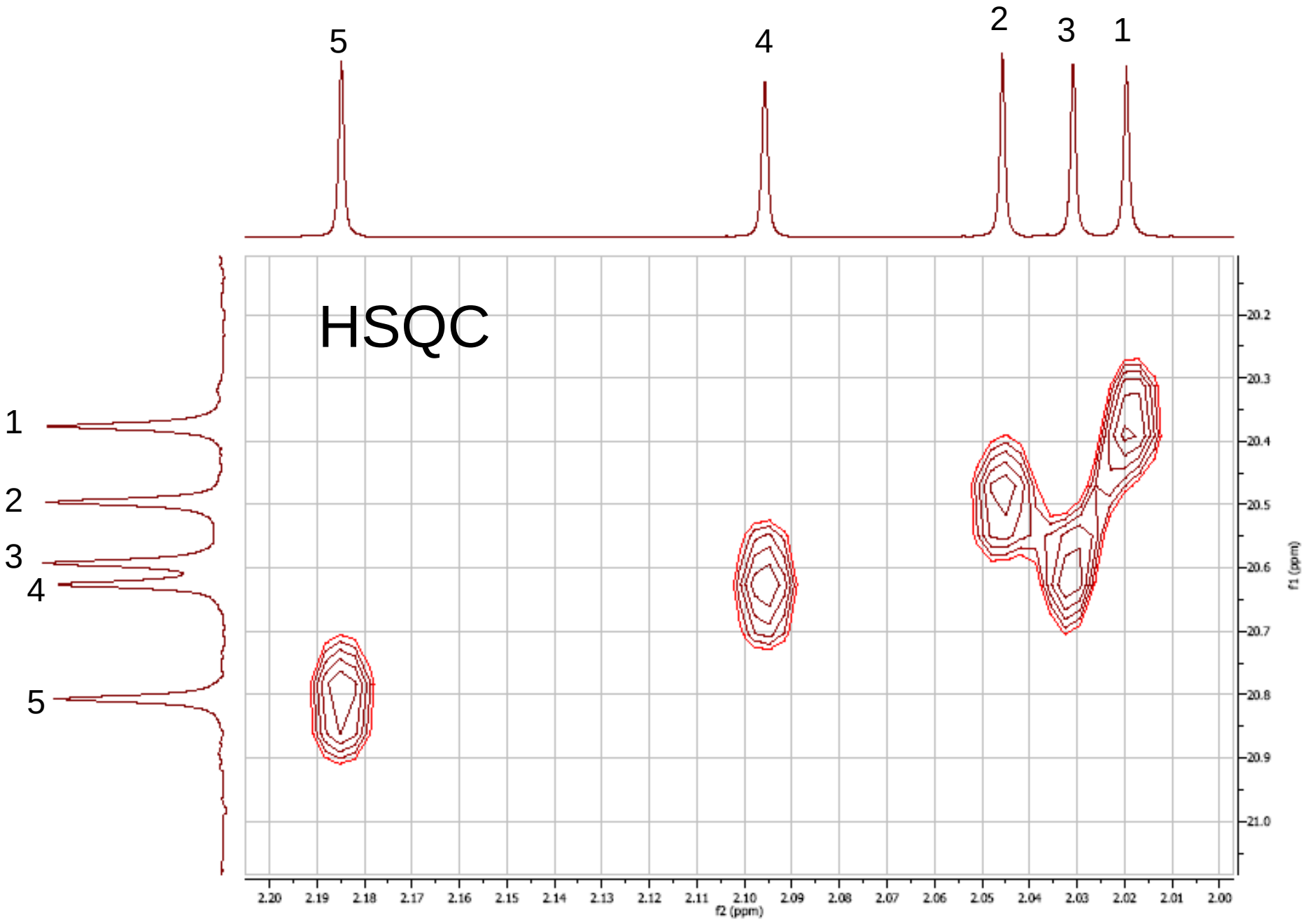

DEPT-135
DEPT-90
^{13}C Spectrum
11
9/10
8
7
6
3
2
1
90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61
f1 (ppm)

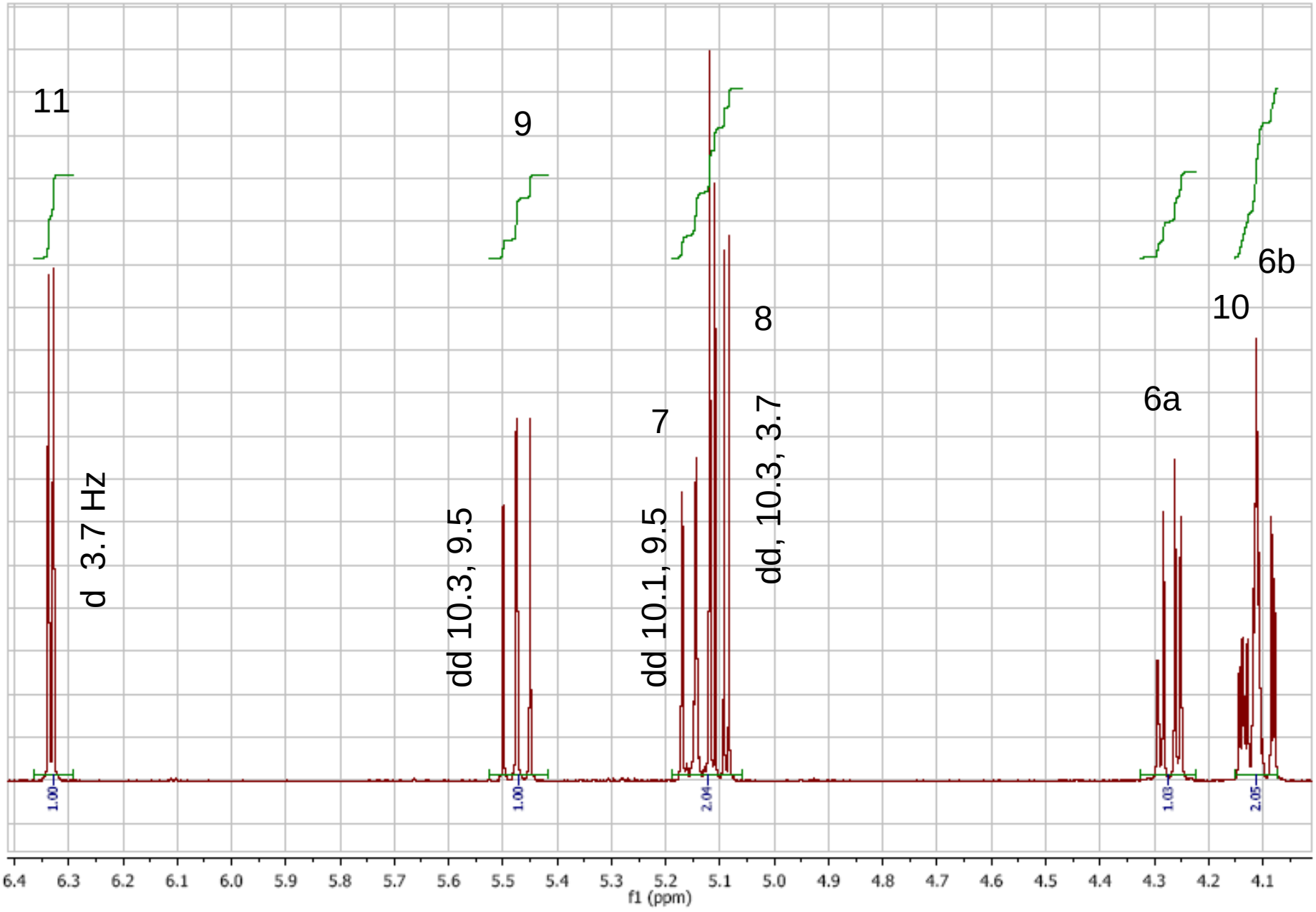

DEPT-135
DEPT-90
16
15
14
13
12
^{13}C Spectrum
3
2
1
170.7 170.6 170.5 170.4 170.3 170.2 170.1 170.0 169.9 169.8 169.7 169.6 169.5 169.4 169.3 169.2 169.1 169.0 168.9 168.8 168.7 168.6
f1 (ppm)

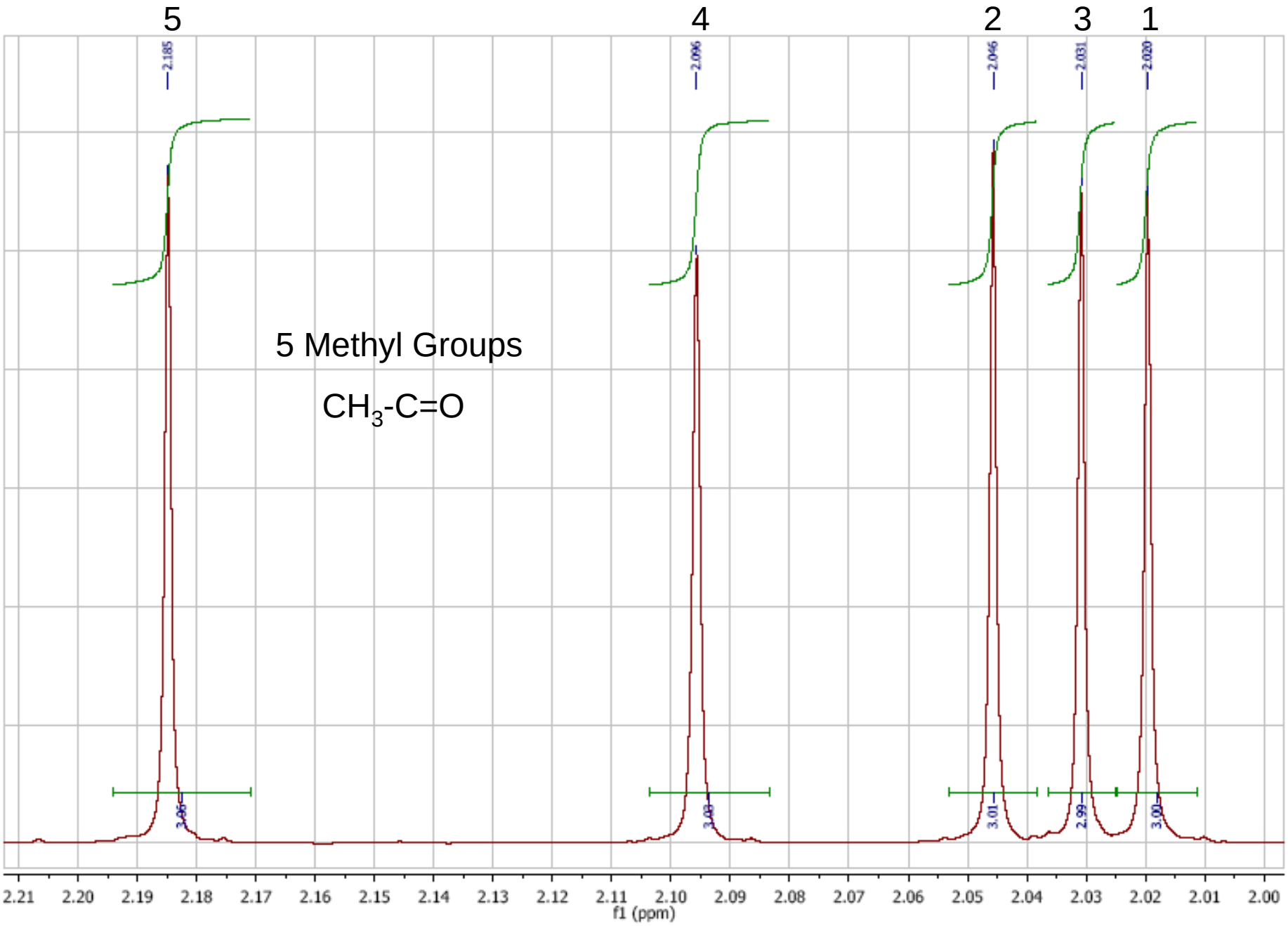

^{1}H Spectrum
2D HSQC
^{13}C Spectrum
1-5
6
7-10
11
CH_3's
CH_2
CH
CH
CH
CH
CH
f2 (ppm)
f1 (ppm)

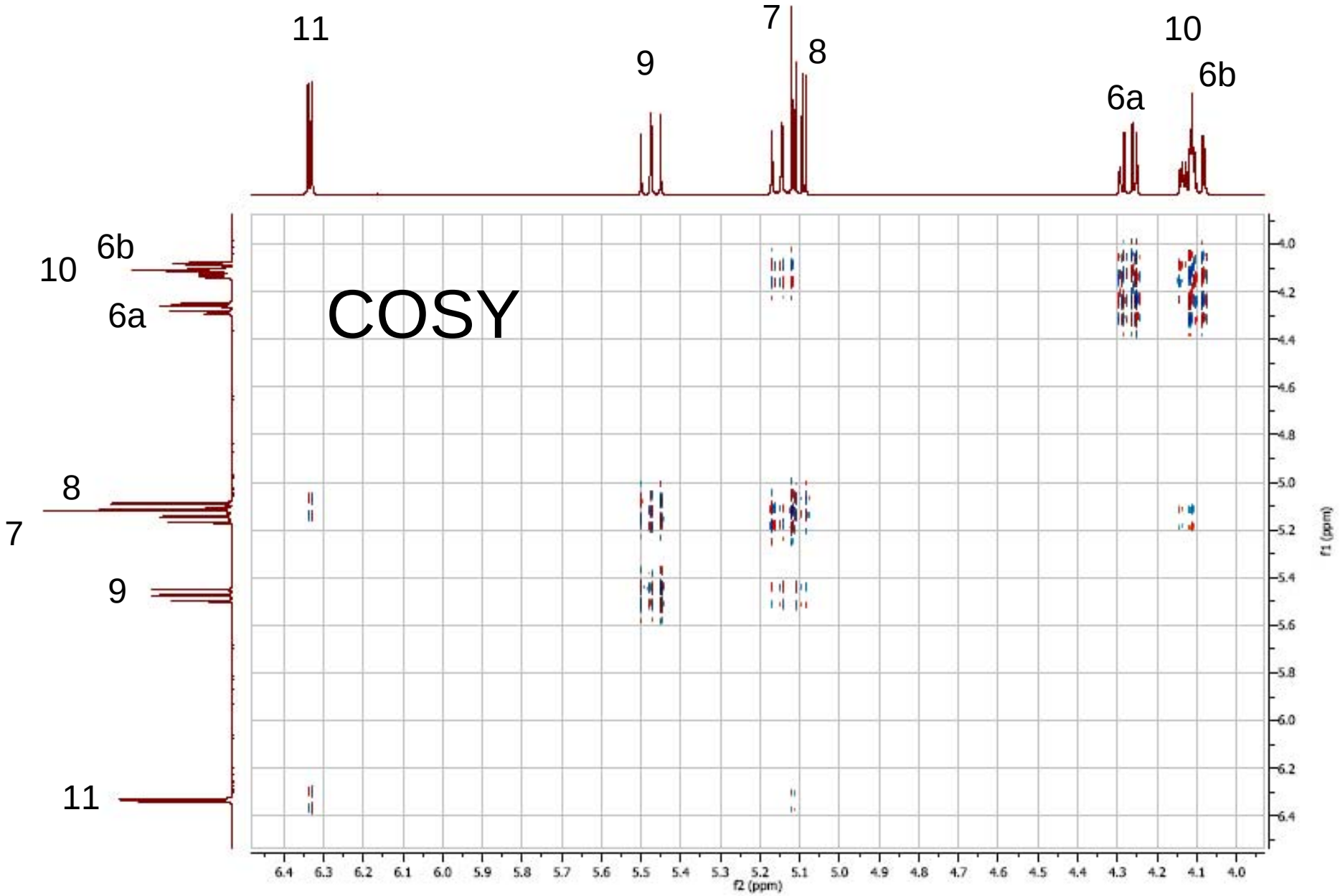

9
7
8
6a
10
6b
2D HSQC
6
7
8
9/10
5.5
5.4
5.3
5.2
5.1
5.0
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
f2 (ppm)
60
61
62
63
64
65
66
67
68
69
70
71
72
f1 (ppm)

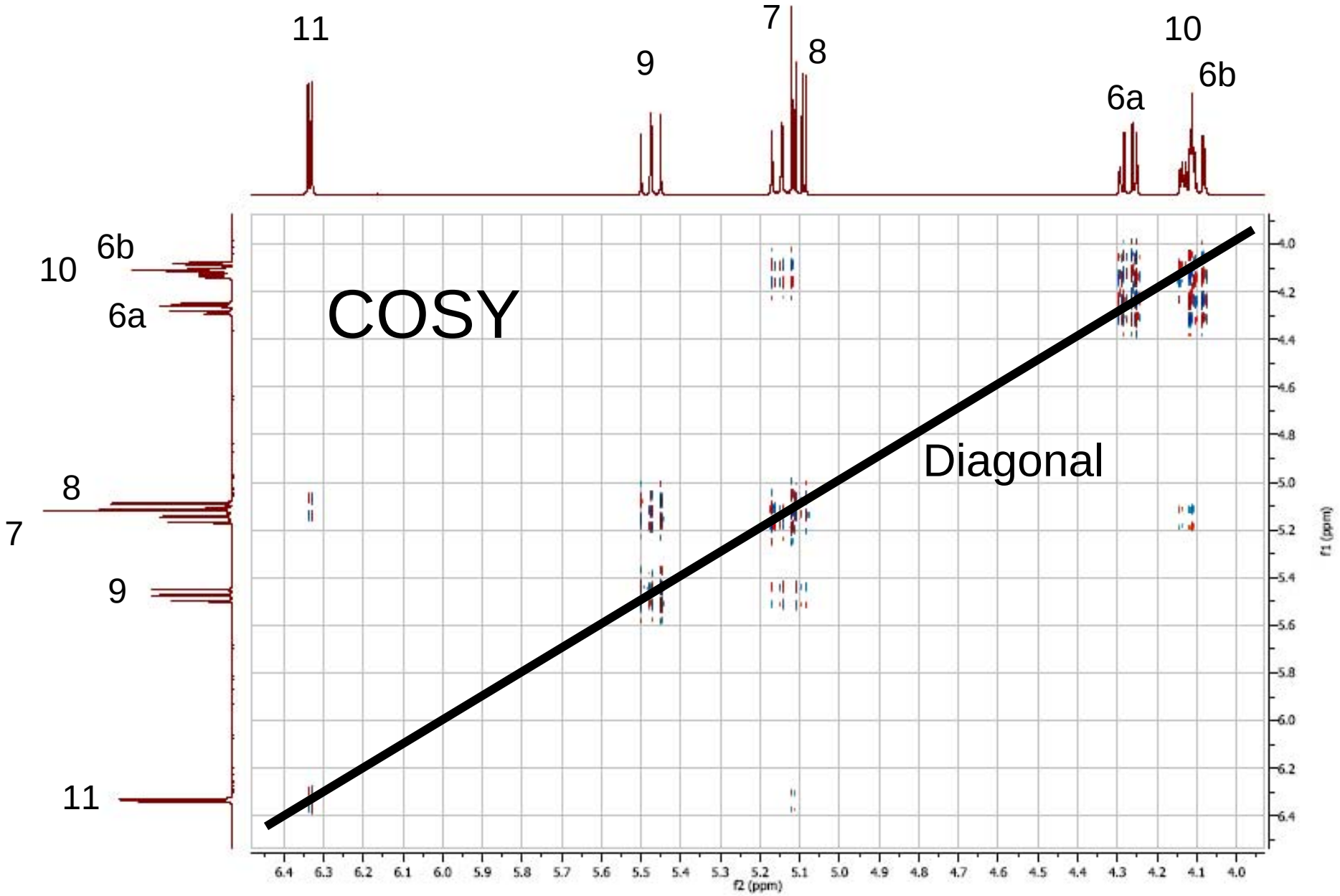

8
9
7
10
6a
6b
2D HSQC
6
7
8
9/10
f2 (ppm)
f1 (ppm)

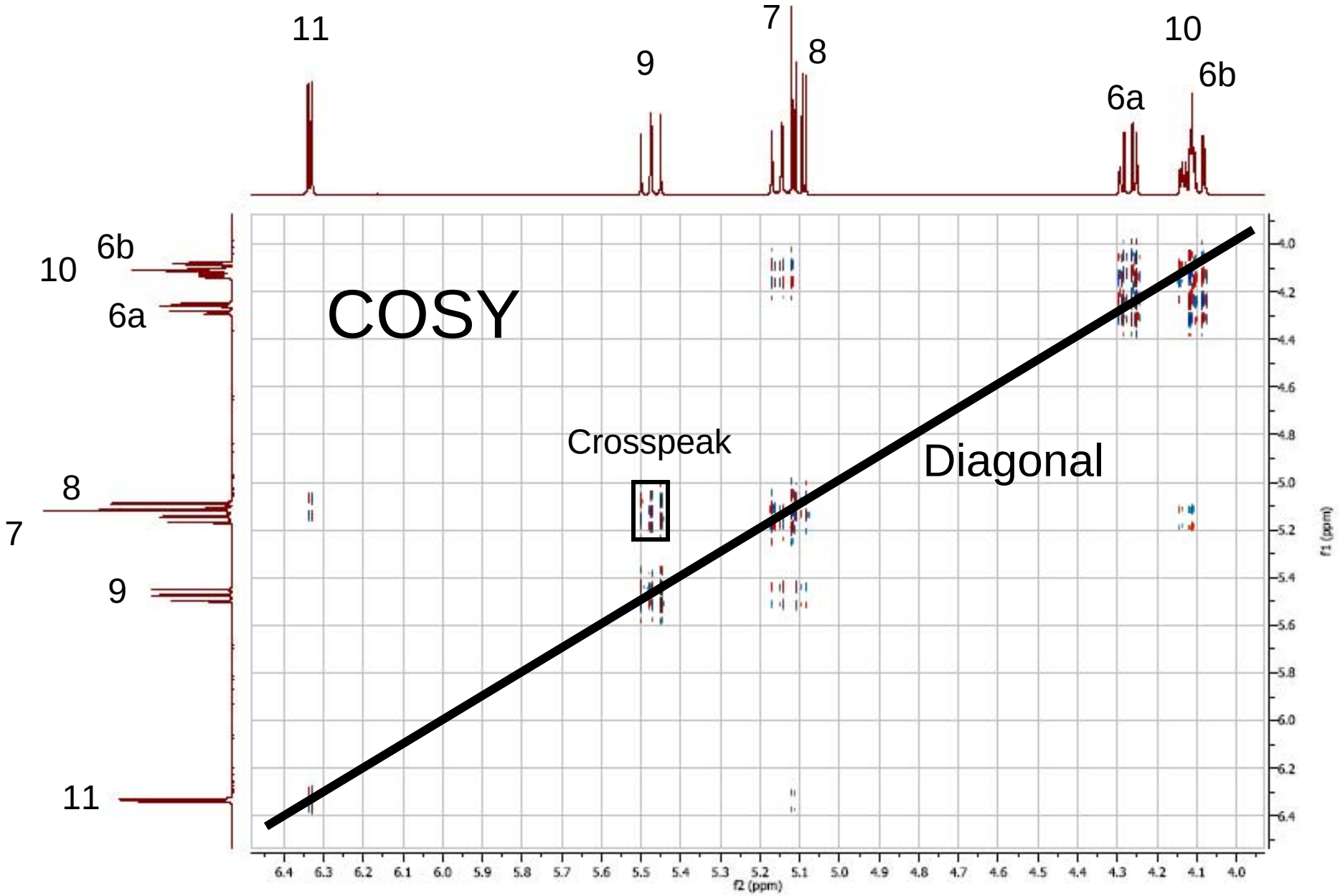

5
4
2
3
1
HSQC
1
2
3
4
5
2.20
2.19
2.18
2.17
2.16
2.15
2.14
2.13
2.12
2.11
2.10
2.09
2.08
2.07
2.06
2.05
2.04
2.03
2.02
2.01
2.00
f2 (ppm)
20.2
20.3
20.4
20.5
20.6
20.7
20.8
20.9
21.0
f1 (ppm)

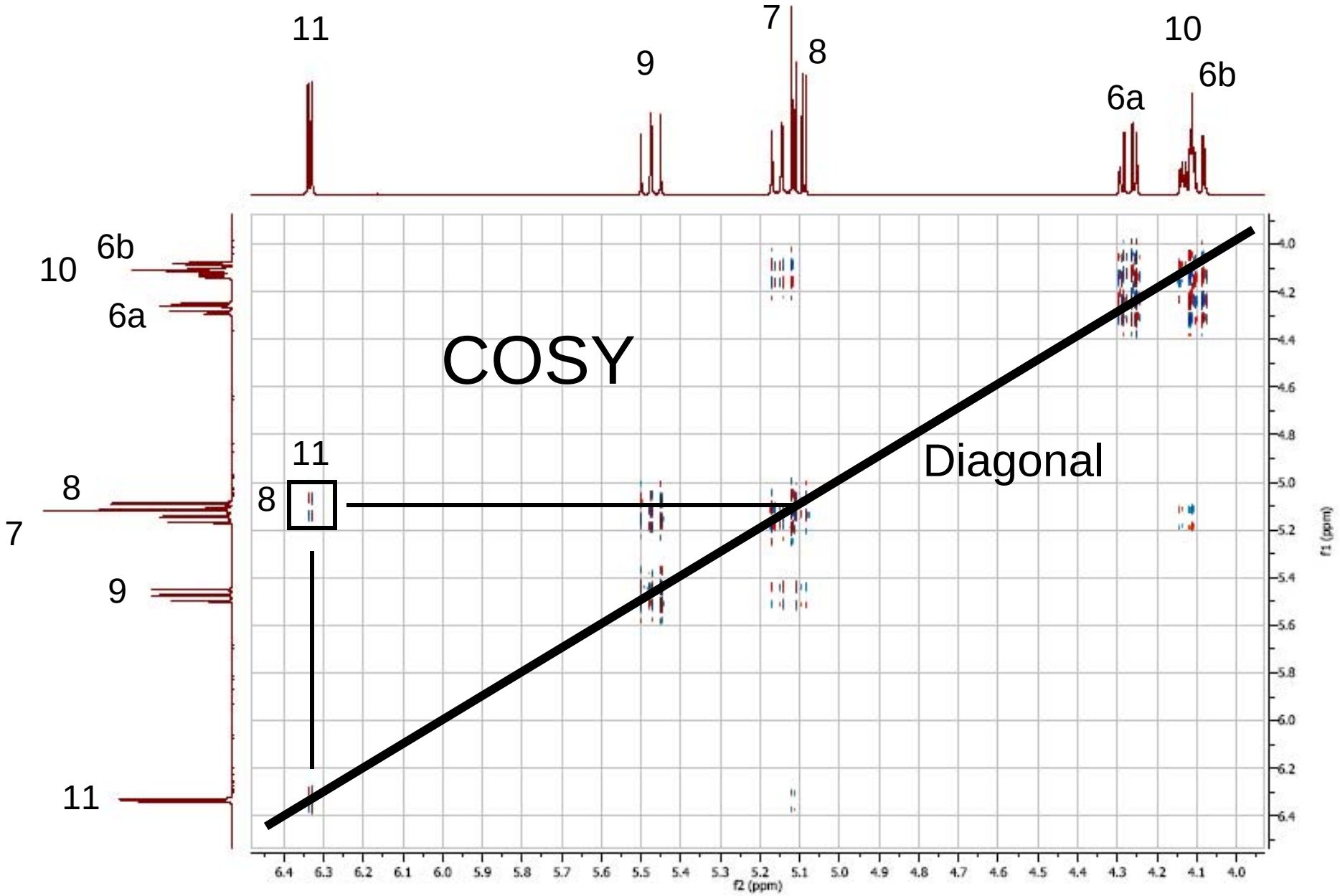

11
9
8
7
6b
10
6a
d 3.7 Hz
dd 10.3, 9.5
dd 10.1, 9.5
dd, 10.3, 3.7
1.00
1.00
2.04
1.03
2.05
6.4 6.3 6.2 6.1 6.0 5.9 5.8 5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.2 4.1
f1 (ppm)


5
4
2
3
1
2.185
2.096
2.046
2.031
2.020
5 Methyl Groups
CH3-C=O
3.06
3.03
3.01
2.99
3.00
2.21 2.20 2.19 2.18 2.17 2.16 2.15 2.14 2.13 2.12 2.11 2.10 2.09 2.08 2.07 2.06 2.05 2.04 2.03 2.02 2.01 2.00
f1 (ppm)

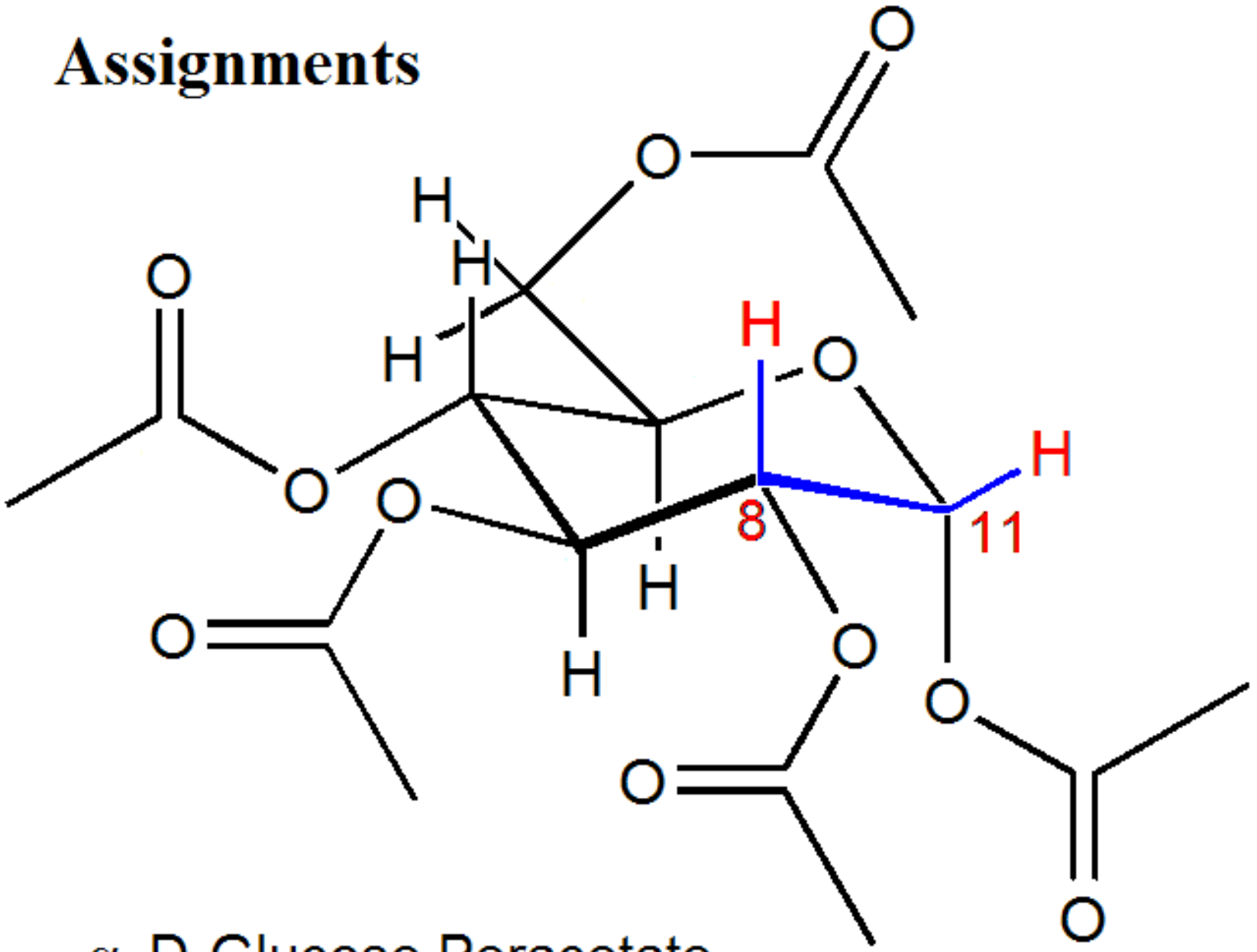

11
9
7
8
10
6b
6a
COSY
f2 (ppm)
f1 (ppm)


11
9
7
8
10
6b
6a
COSY
Diagonal
f2 (ppm)
f1 (ppm)

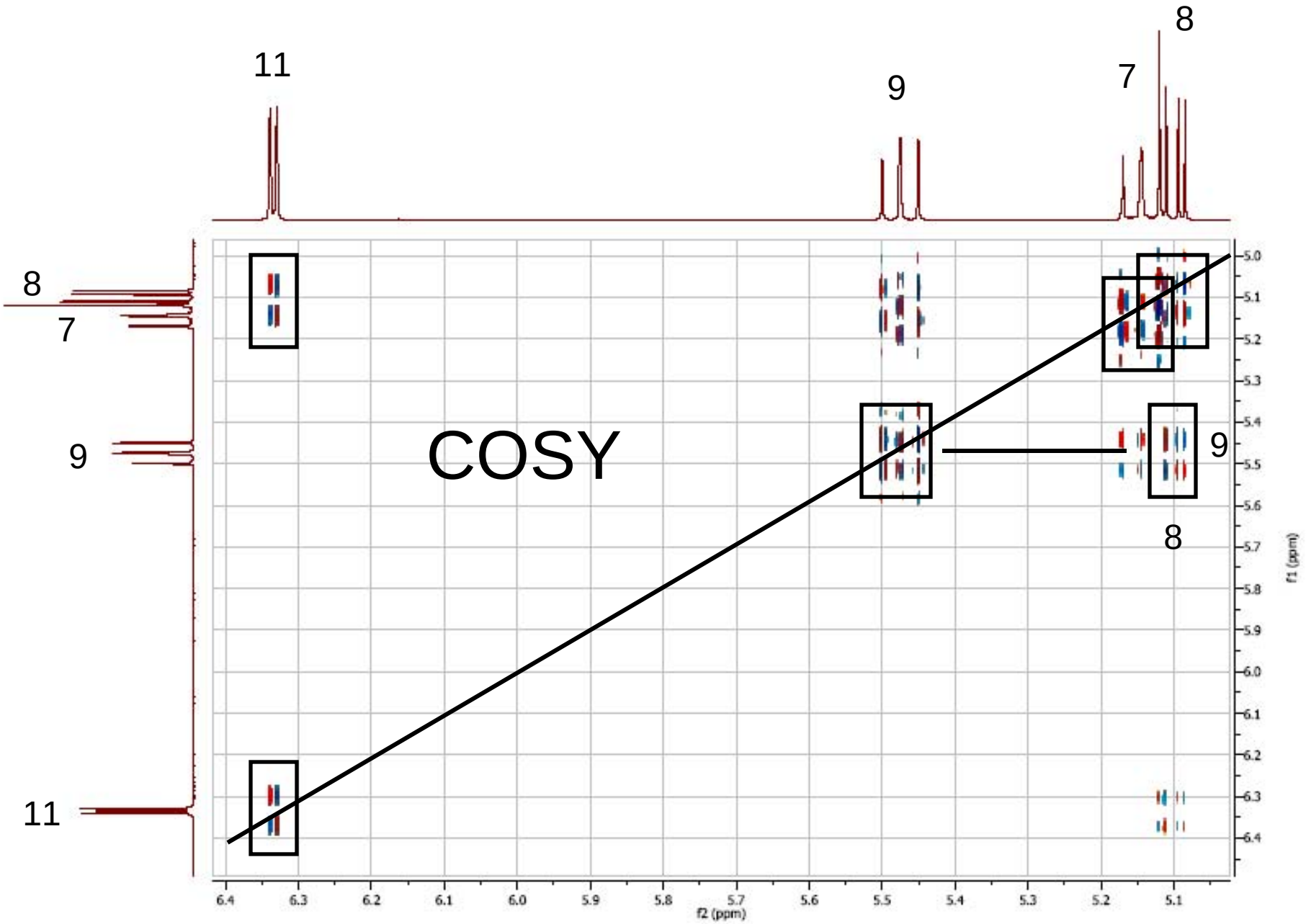

11
9
7
8
10
6b
6a
COSY
Crosspeak
Diagonal
f2 (ppm)
f1 (ppm)


11
9
7
8
10
6b
6a
COSY
Diagonal
f2 (ppm)
f1 (ppm)

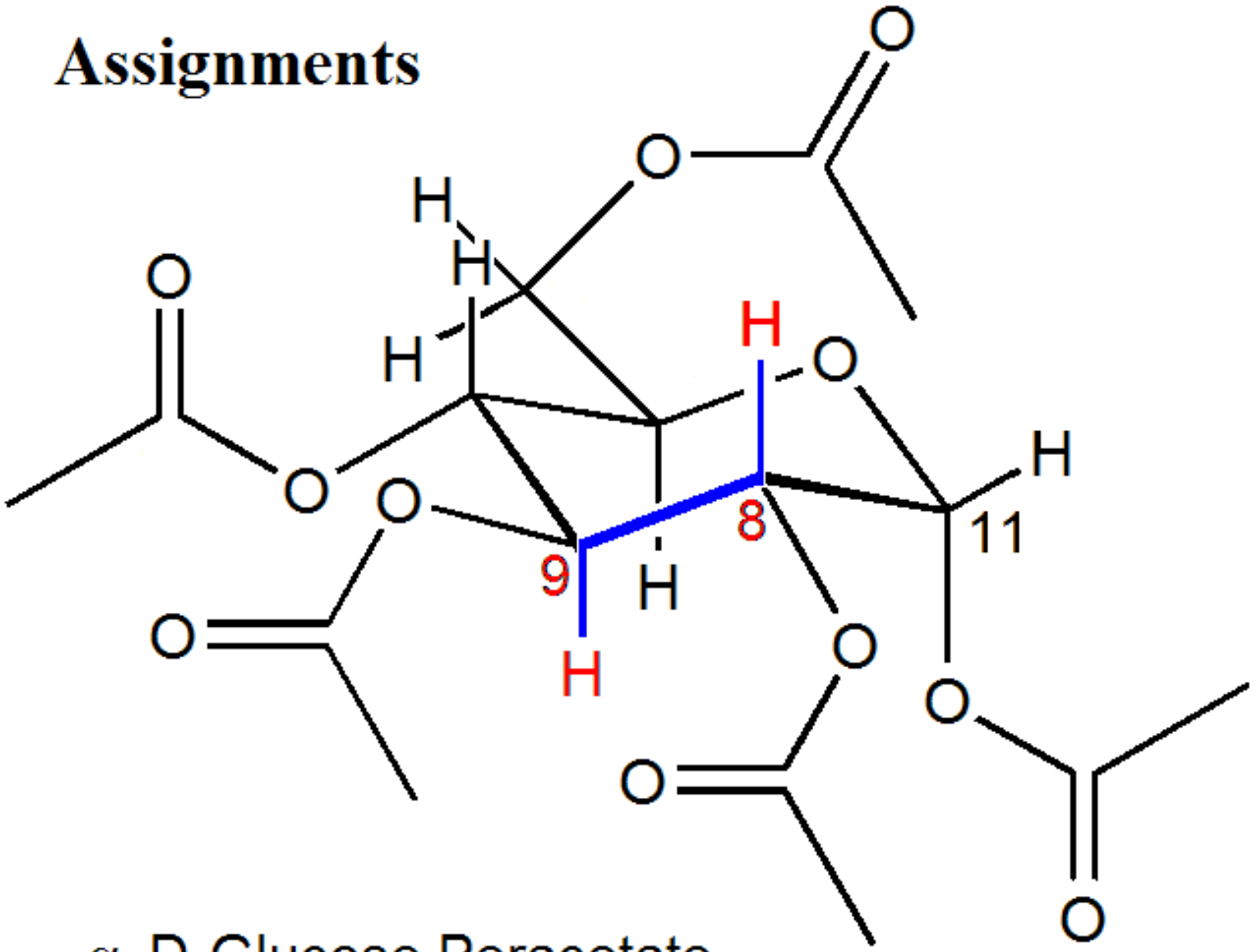
Assignments



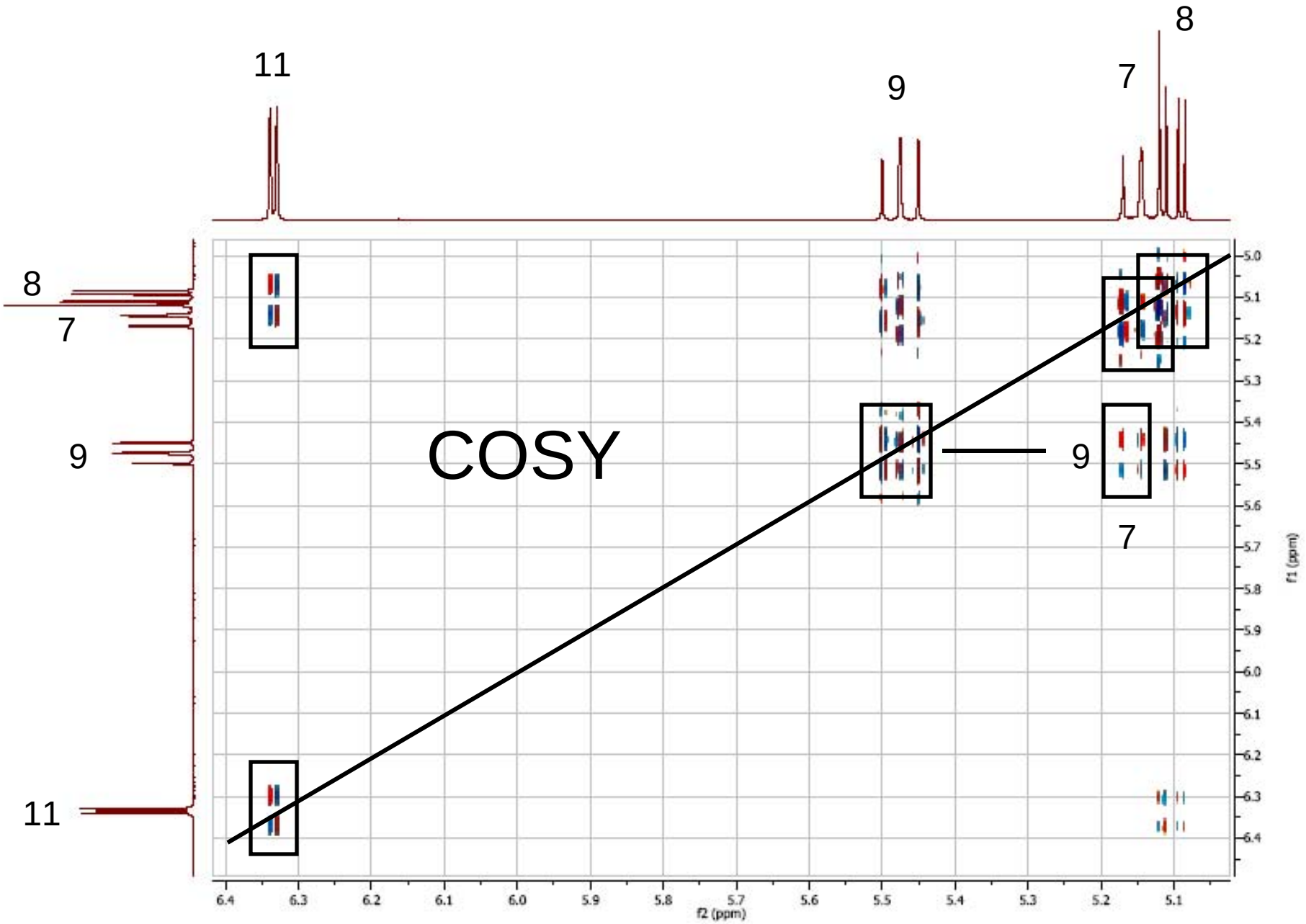
α-D-Glucose Peracetate


11
9
7
8
8
7
9
11
COSY
9
8
f2 (ppm)
f1 (ppm)

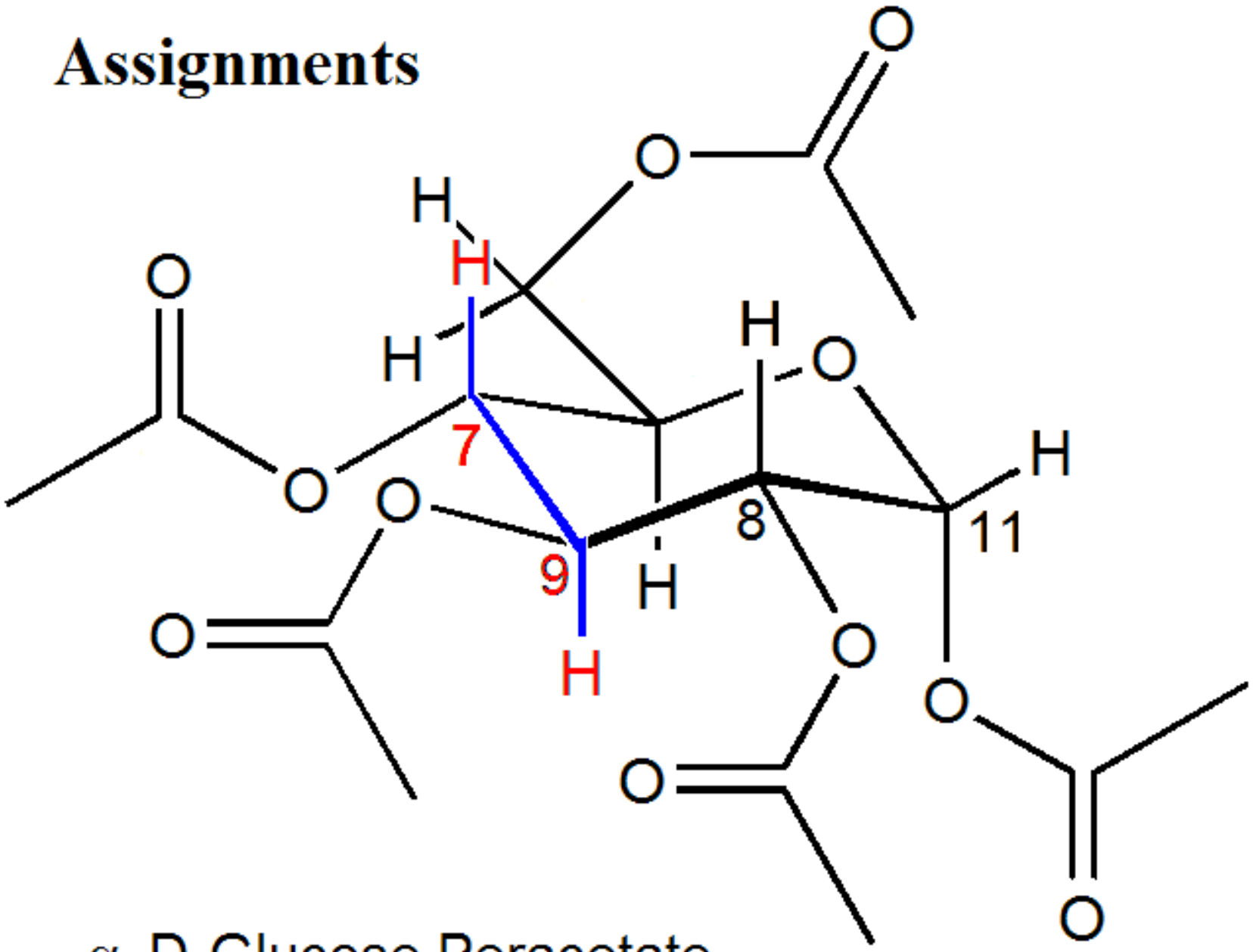
Assignments



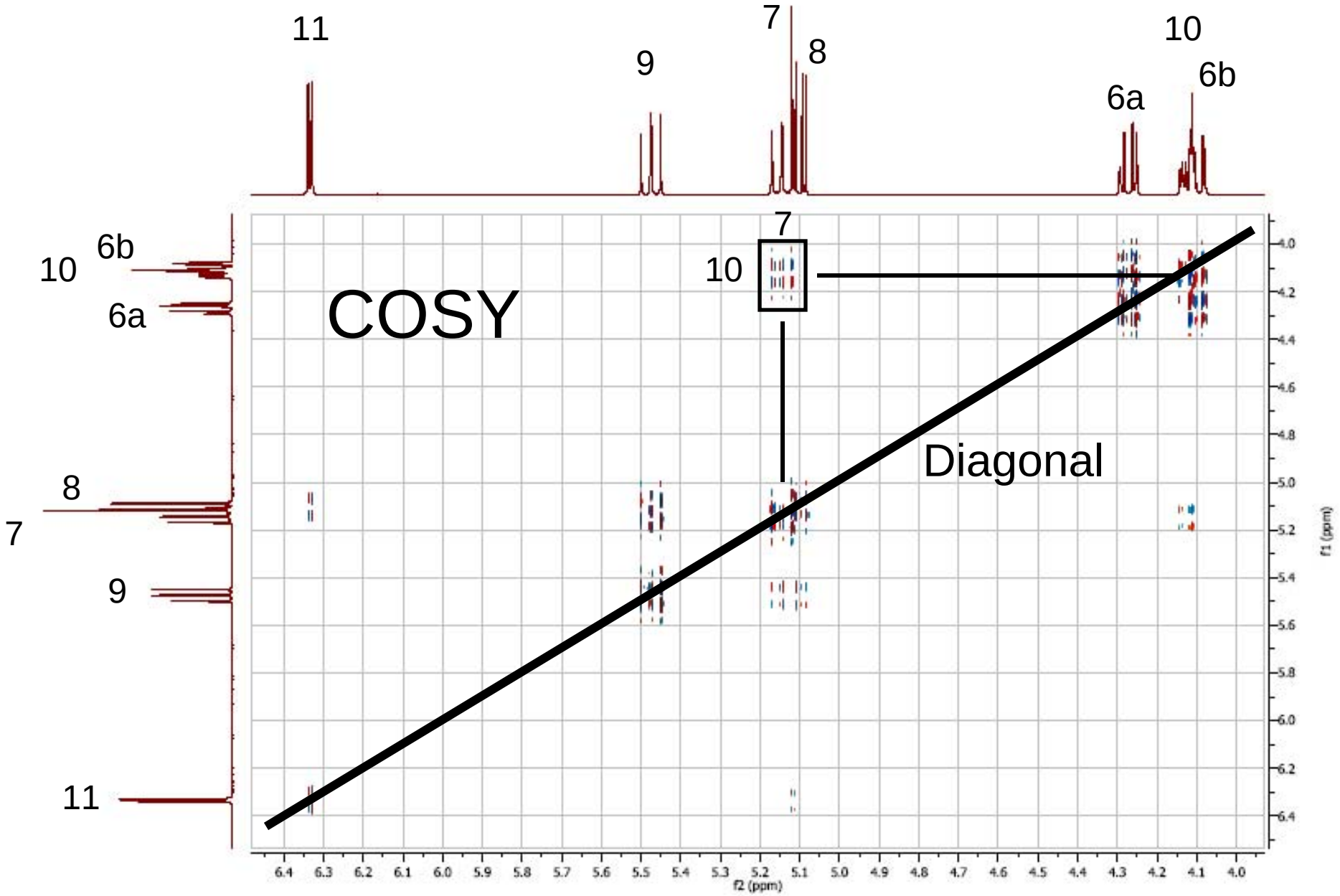
α-D-Glucose Peracetate

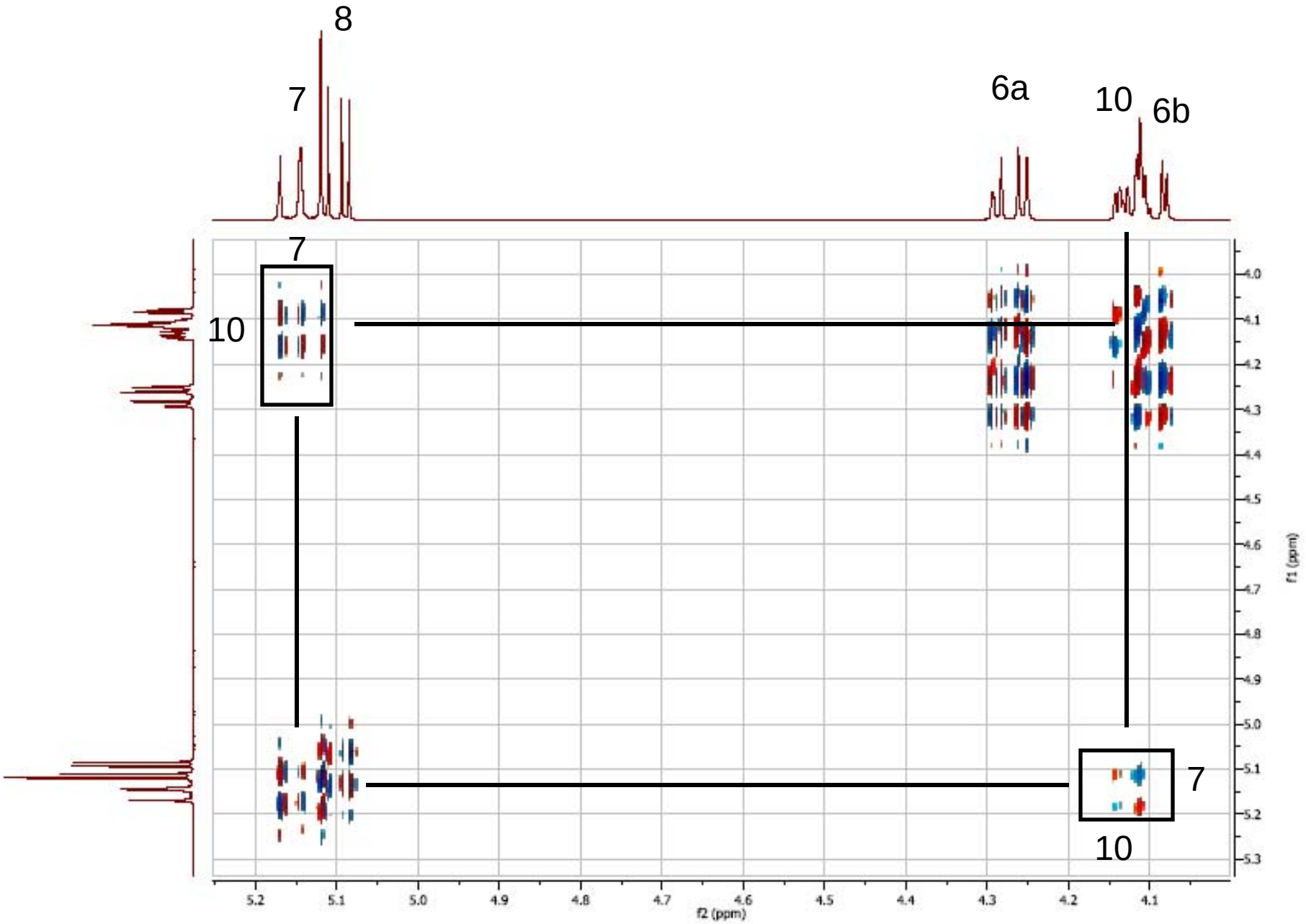

11
9
7
8
8
7
9
11
COSY
9
7
f2 (ppm)
f1 (ppm)

Assignments

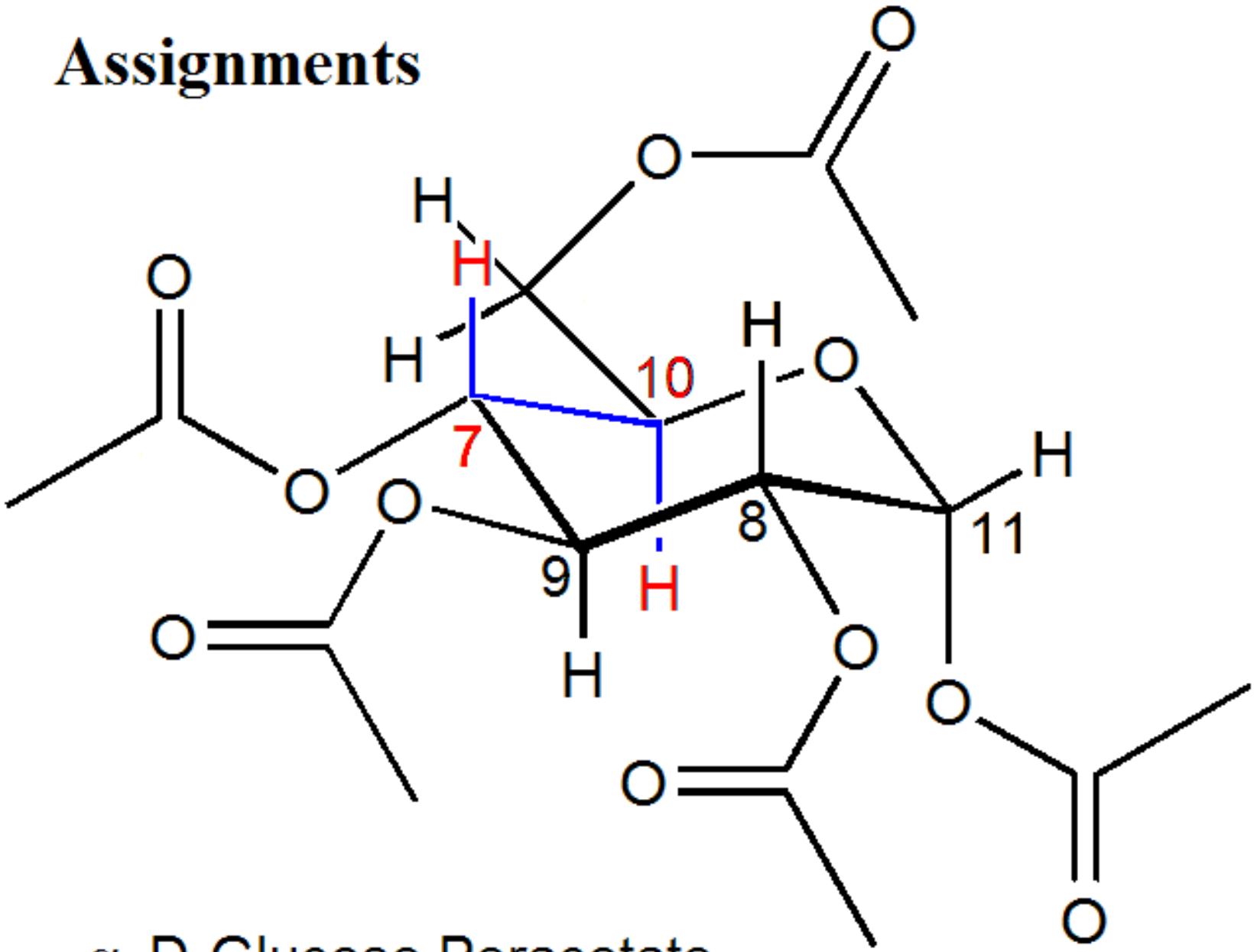


α-D-Glucose Peracetate


11
9
7
8
10
6b
6a
10
6b
6a
8
7
9
11
COSY
7
10
Diagonal
f2 (ppm)
f1 (ppm)

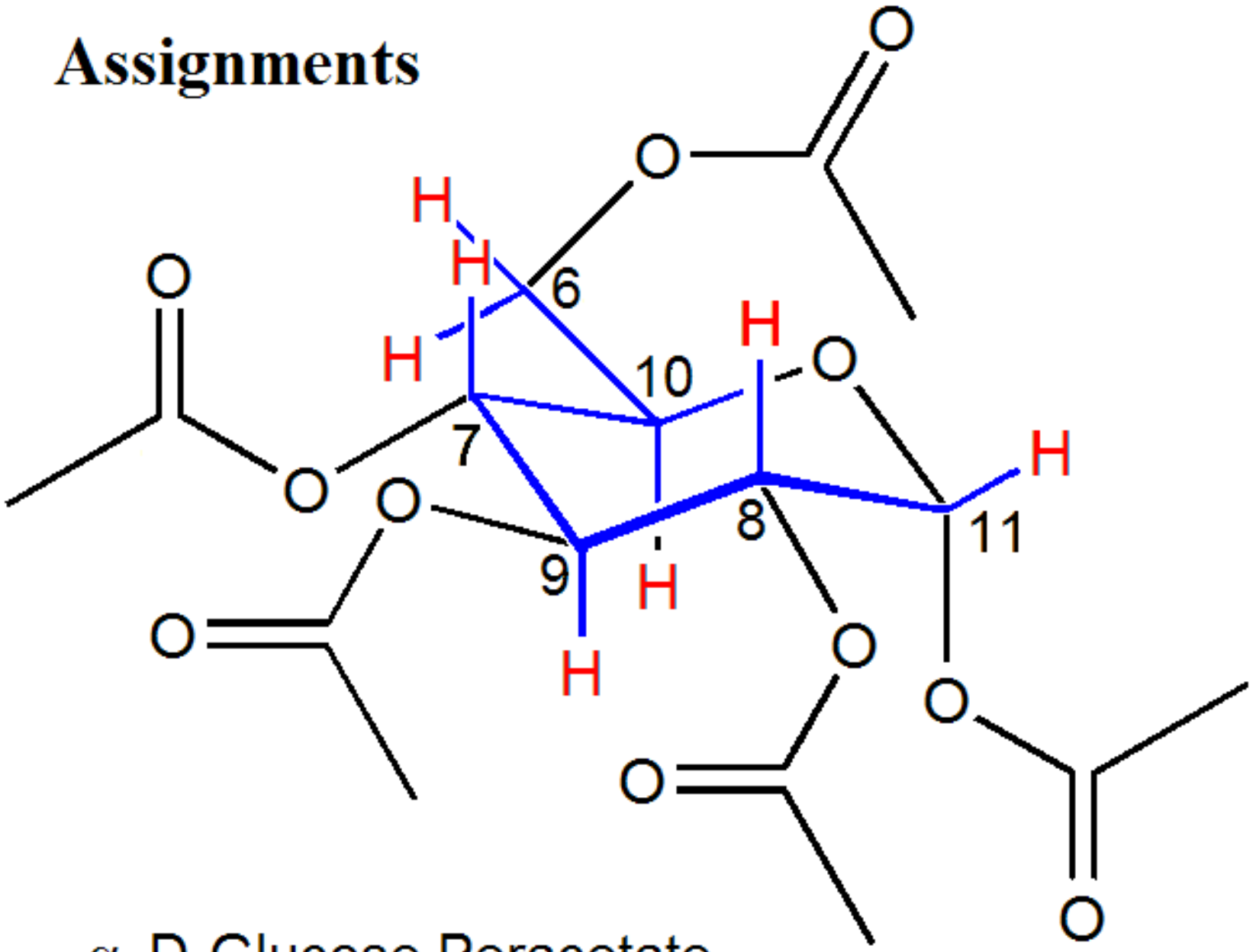

8
7
6a
10
6b
7
10
10
7
5.2
5.1
5.0
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
f2 (ppm)
f1 (ppm)

Assignments



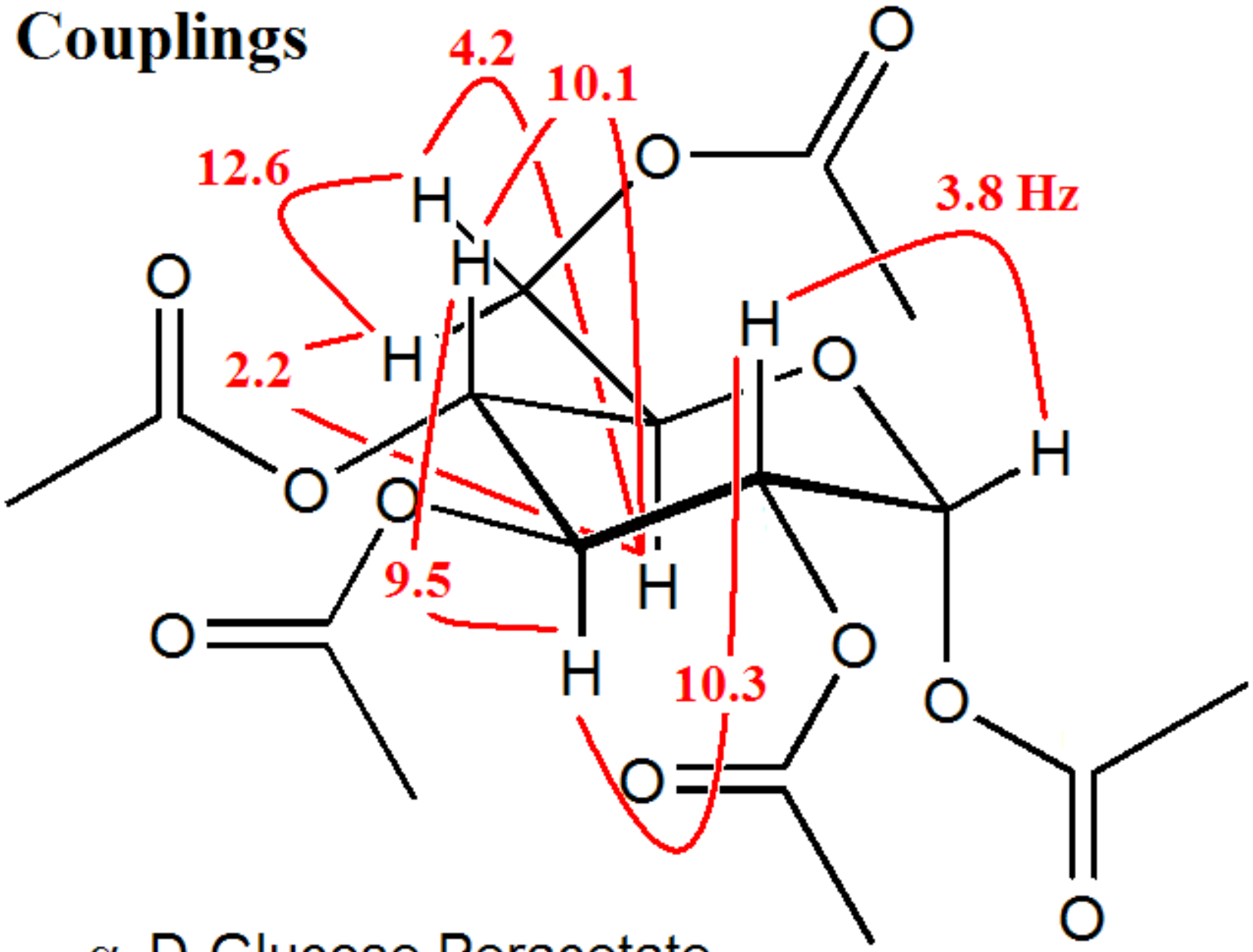
α-D-Glucose Peracetate

Assignments

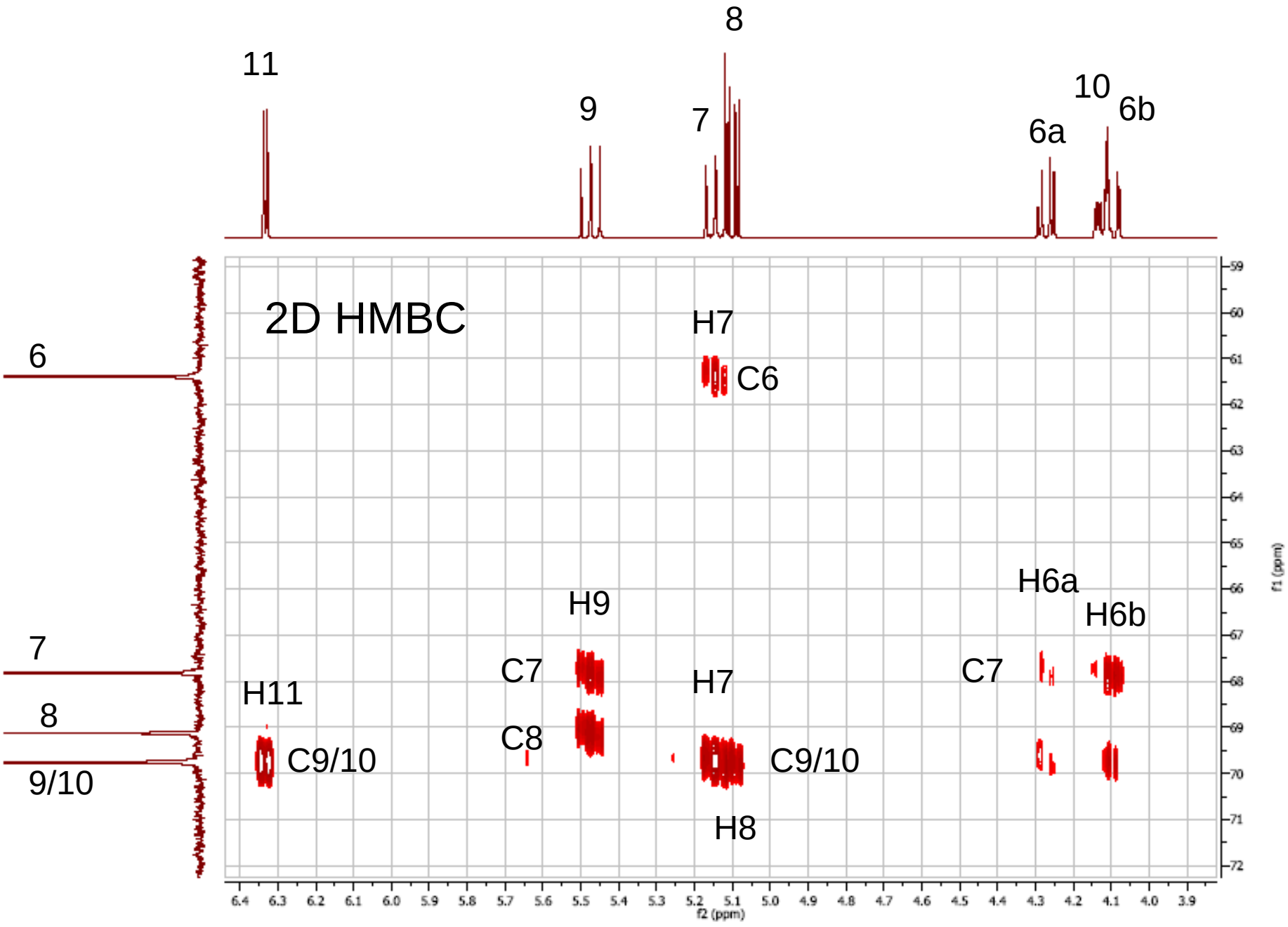


α-D-Glucose Peracetate

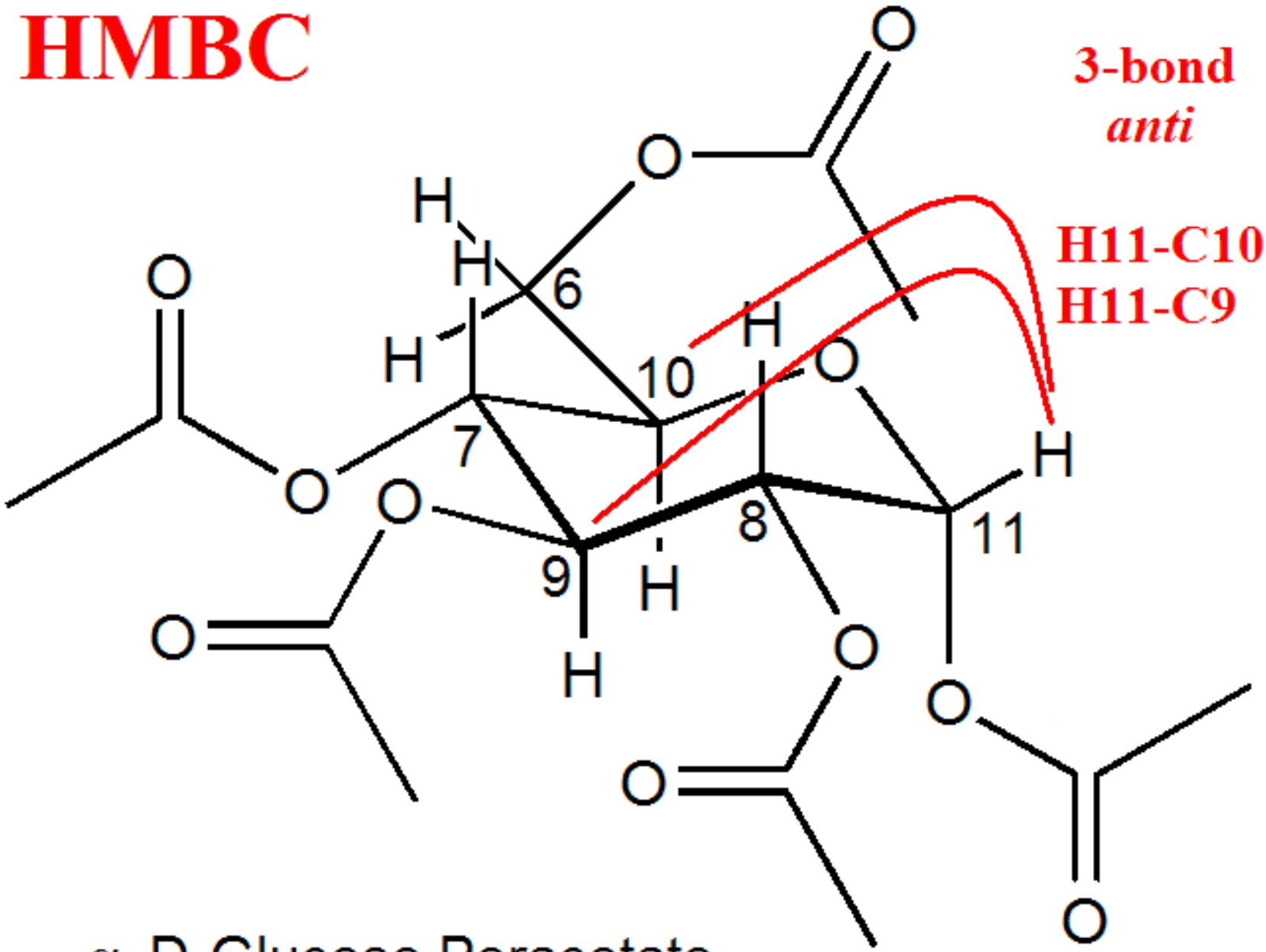
J Couplings



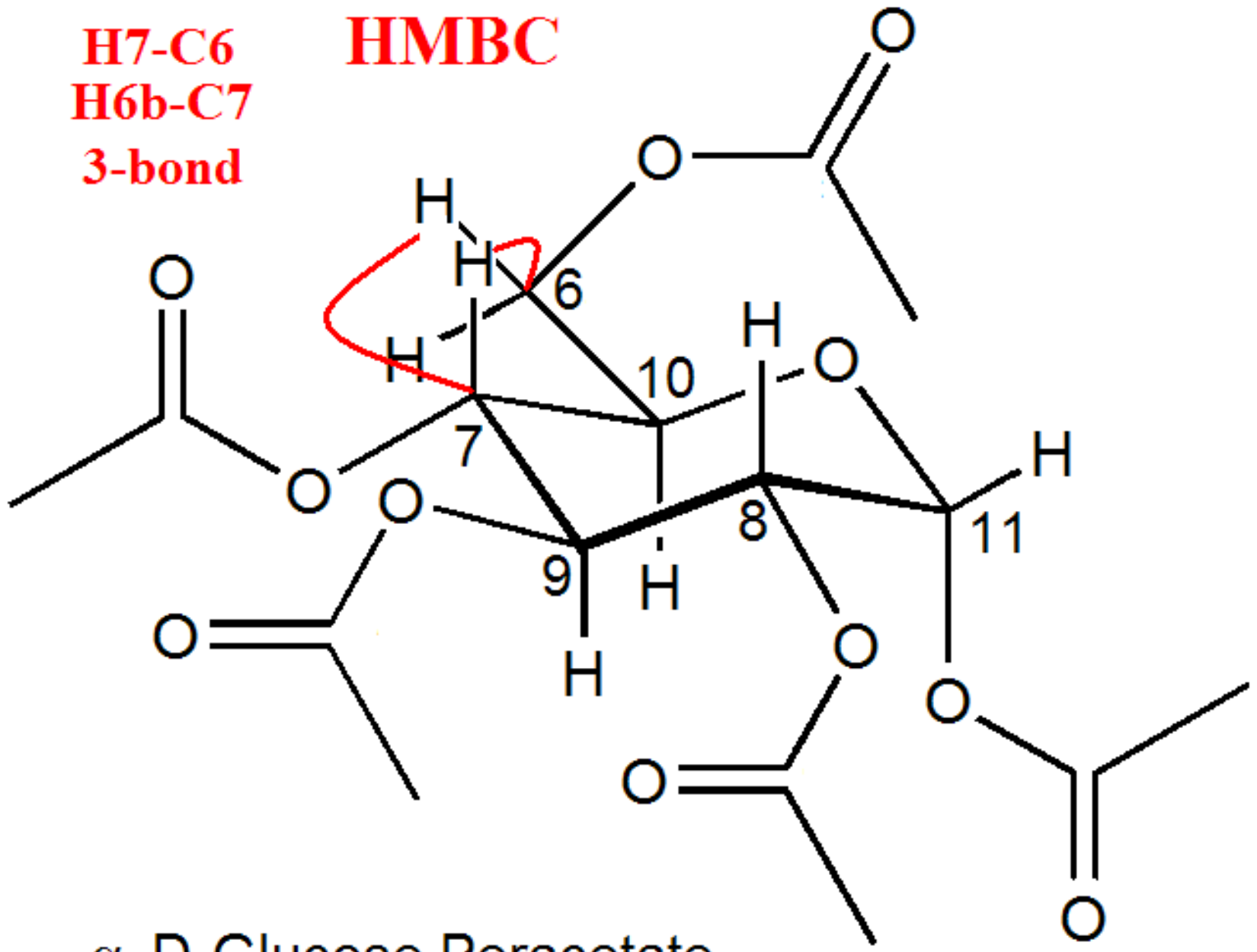
α-D-Glucose Peracetate

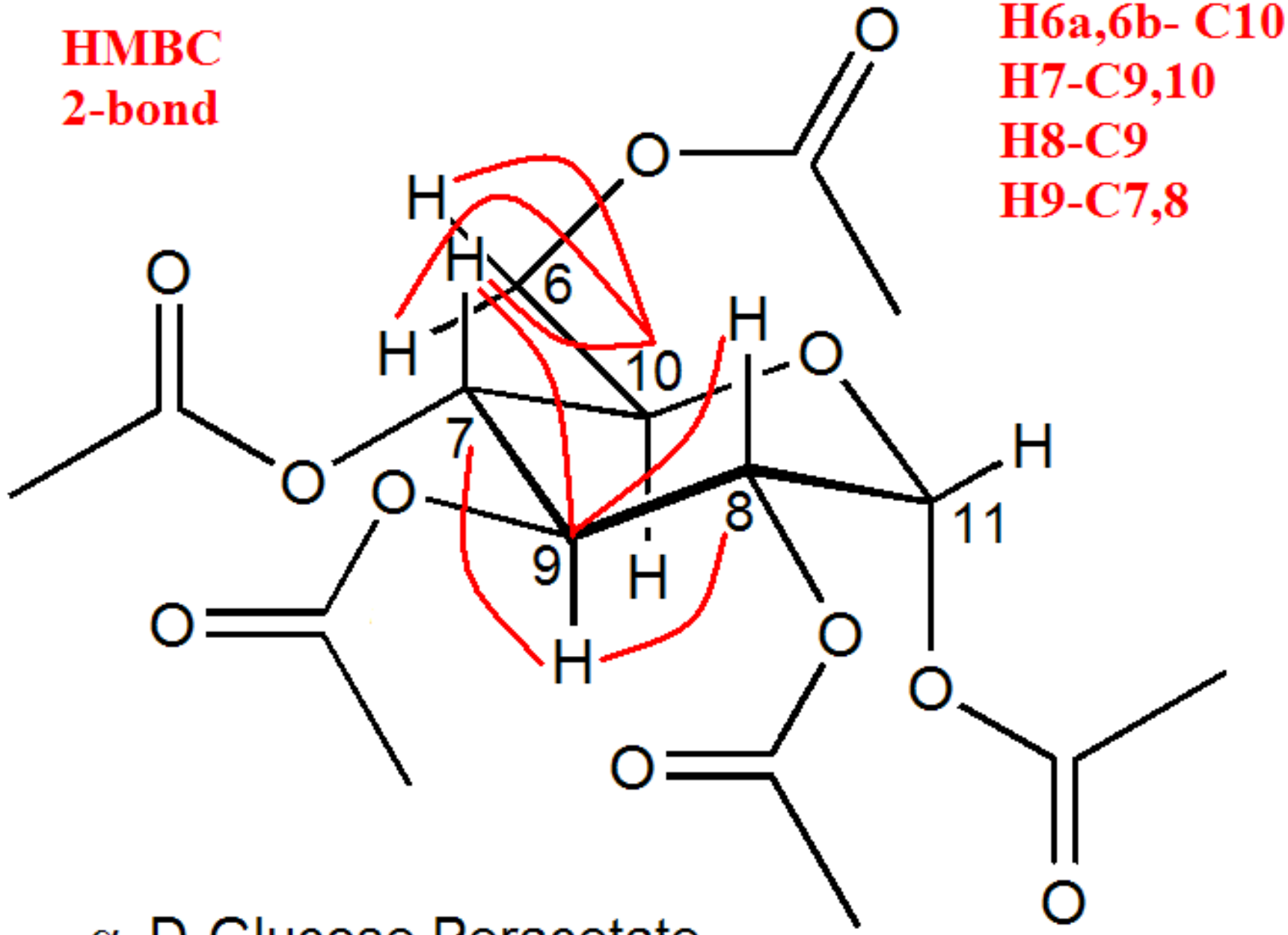

11
9
8
7
10
6a
6b
2D HMBC
H7
C6
6
7
8
9/10
H9
C7
H11
C9/10
C8
H7
C9/10
H8
H6a
H6b
C7
f2 (ppm)
f1 (ppm)

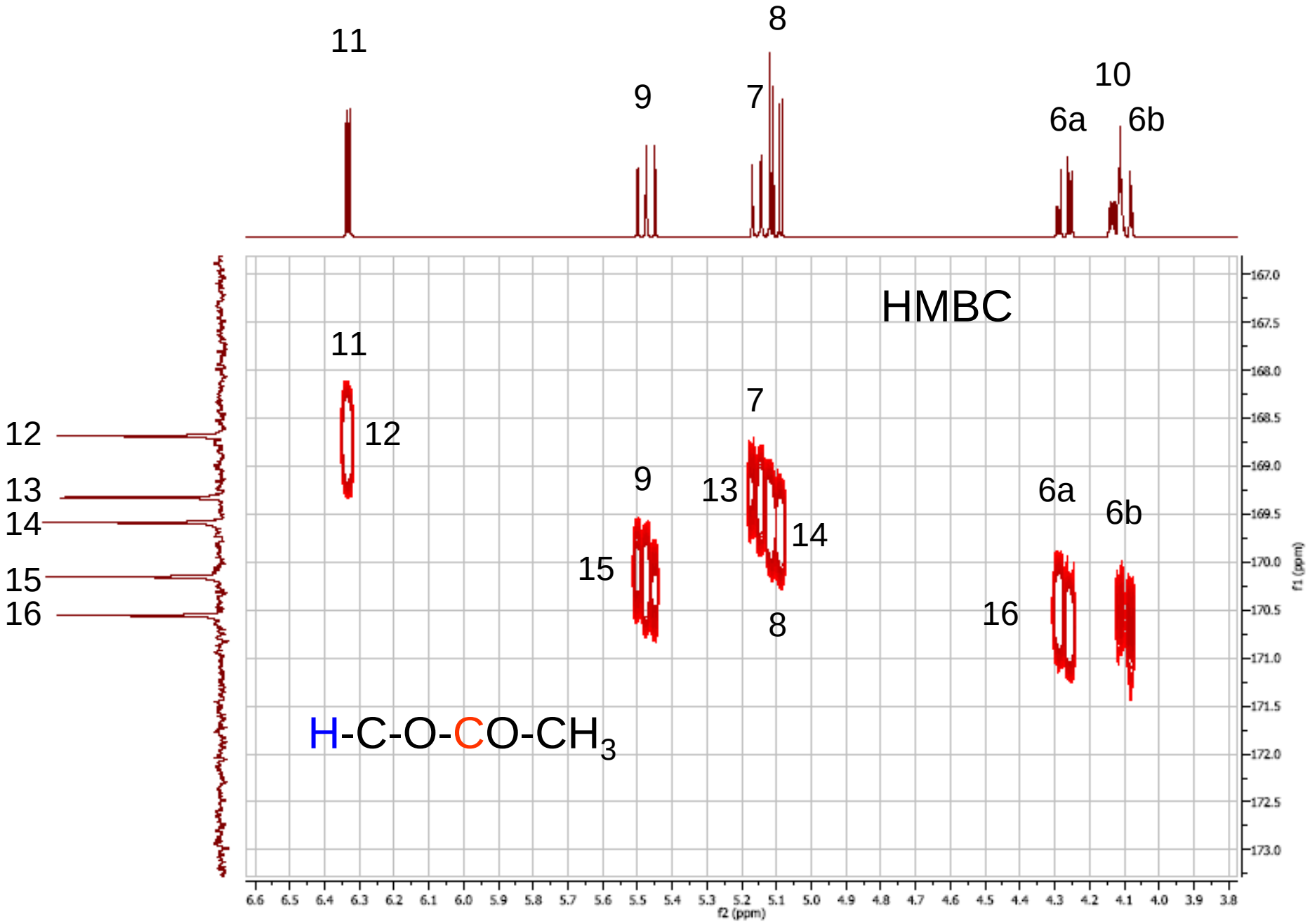
HMBC

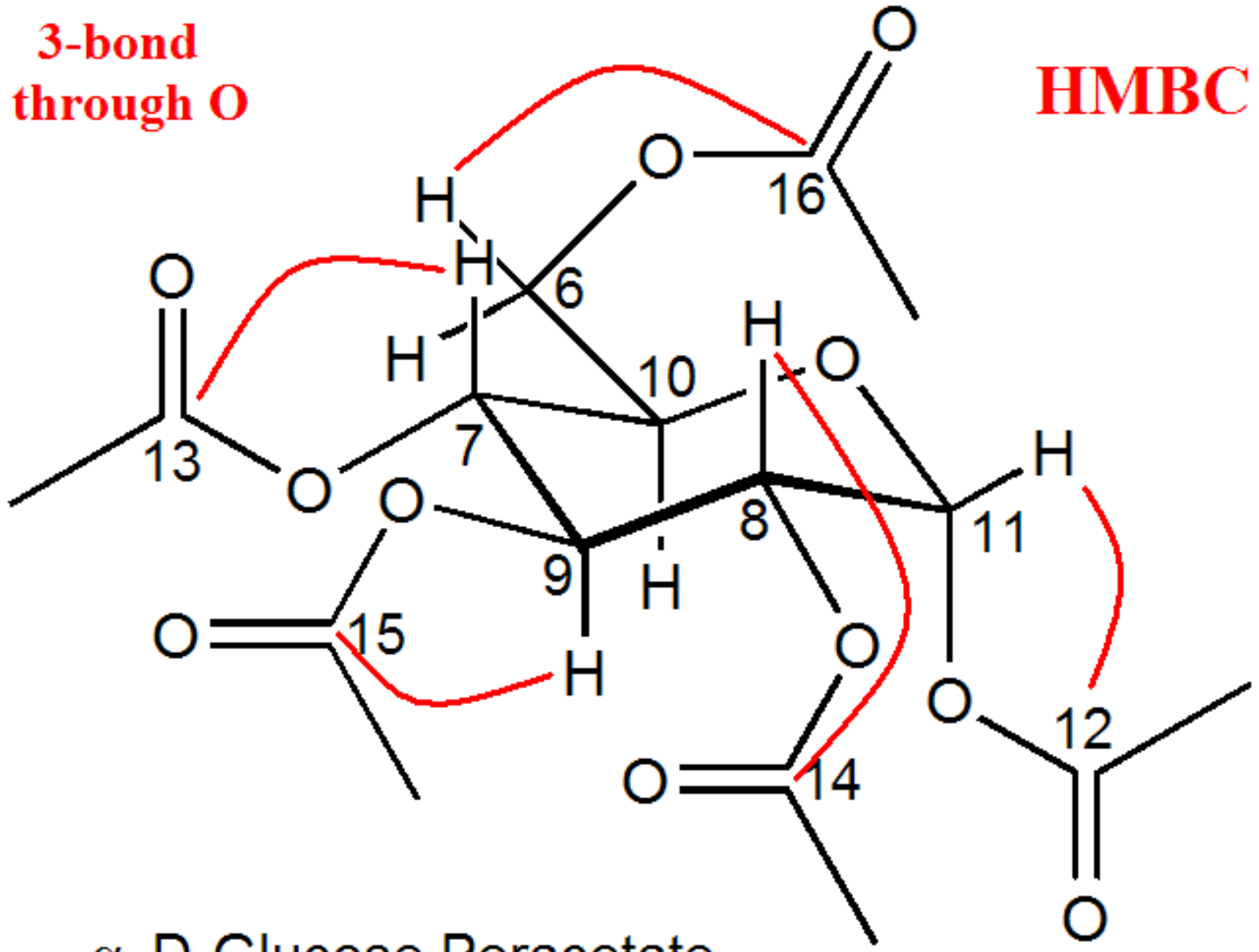


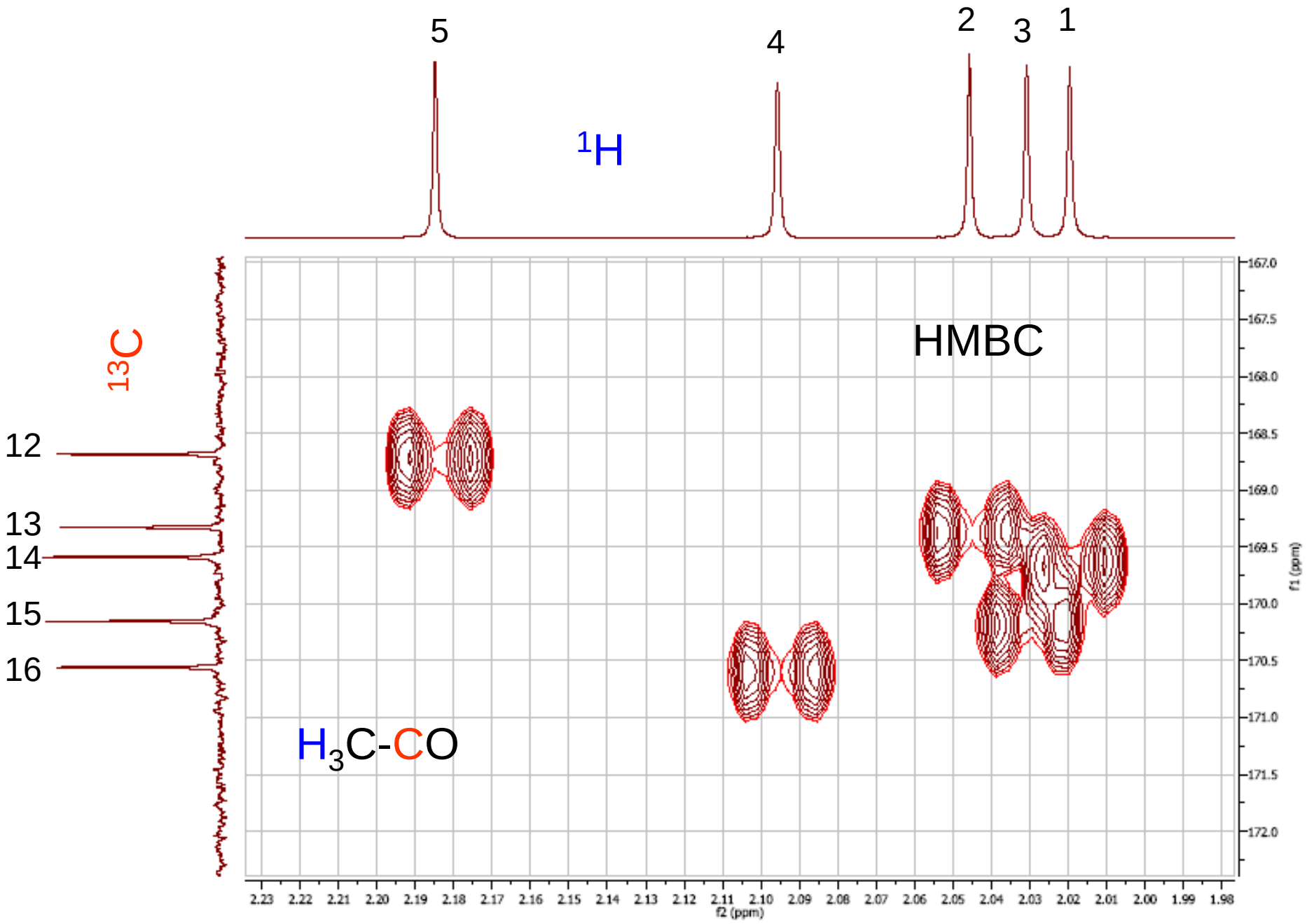
α-D-Glucose Peracetate


H7-C6
H6b-C7
3-bond
HMBC
O
O
H
H
6
H
10
O
H
7
O
O
11
8
9
H
H
O
O
O
O
α-D-Glucose Peracetate


HMBC
2-bond
H6a,6b- C10
H7-C9,10
H8-C9
H9-C7,8
α-D-Glucose Peracetate

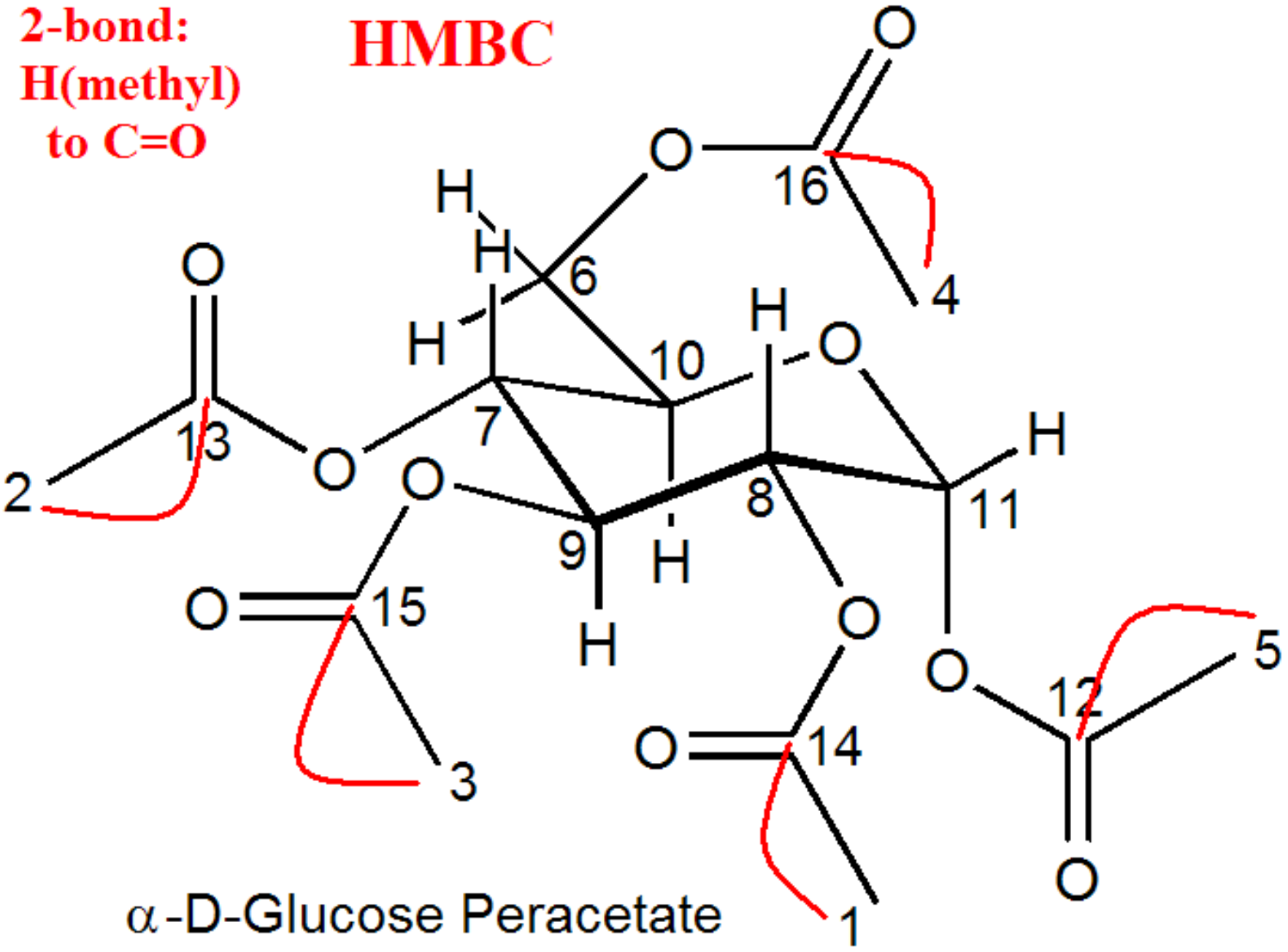

11
9
8
7
10
6a
6b
HMBC
11
12
12
13
14
15
16
9
15
7
13
14
8
6a
6b
16
H-C-O-CO-CH3
f2 (ppm)
f1 (ppm)


3-bond
through O
HMBC
O
O
16
H
H
6
O
H
H
10
O
7
13
O
O
H
8
11
9
H
O
15
H
O
O
12
O
14
O
α-D-Glucose Peracetate

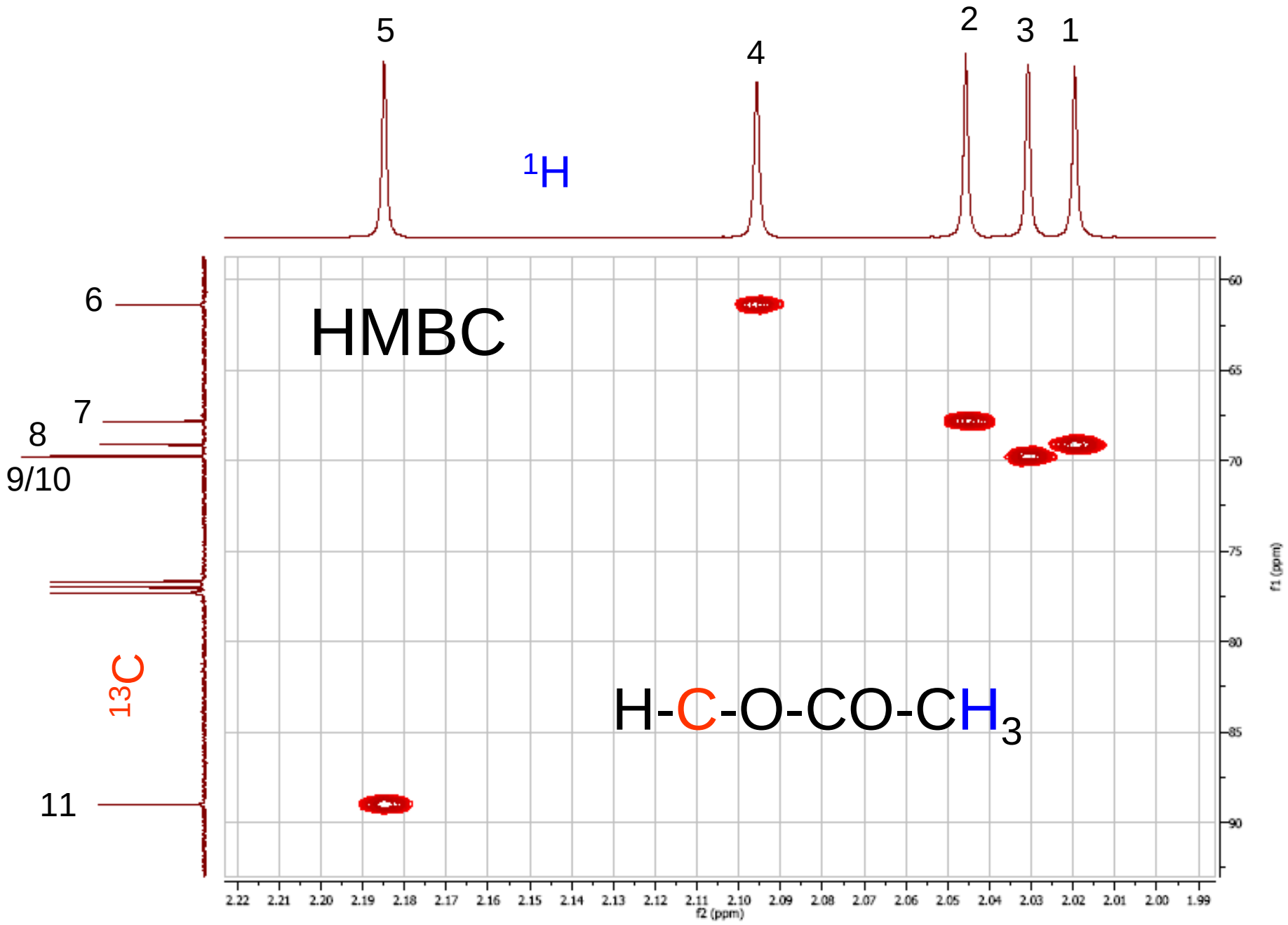

5
4
2
3
1
^{1}H
^{13}C
12
13
14
15
16
HMBC
H_3C-CO
f2 (ppm)
f1 (ppm)

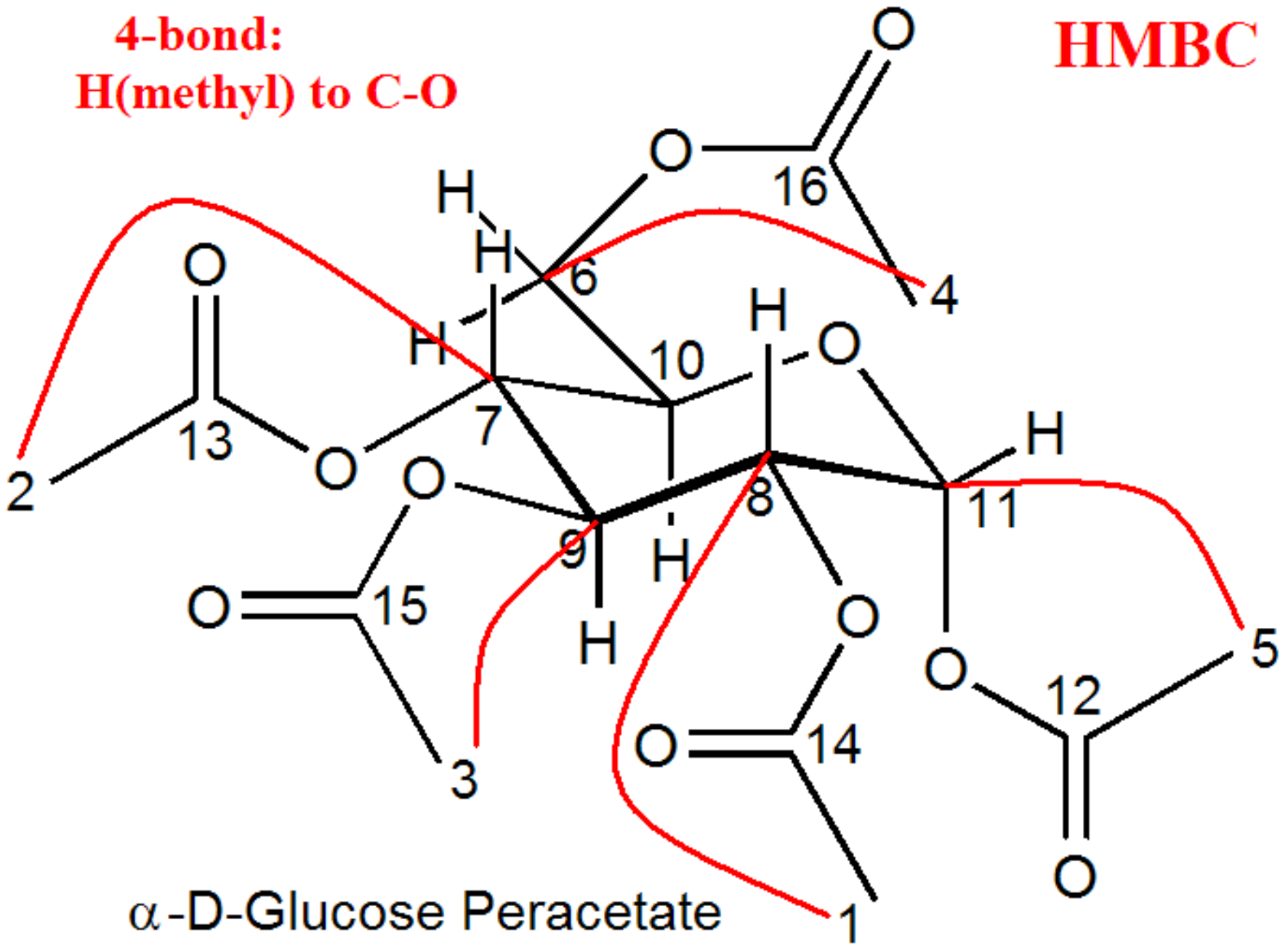
2-bond: H(methyl) to C=O

HMBC

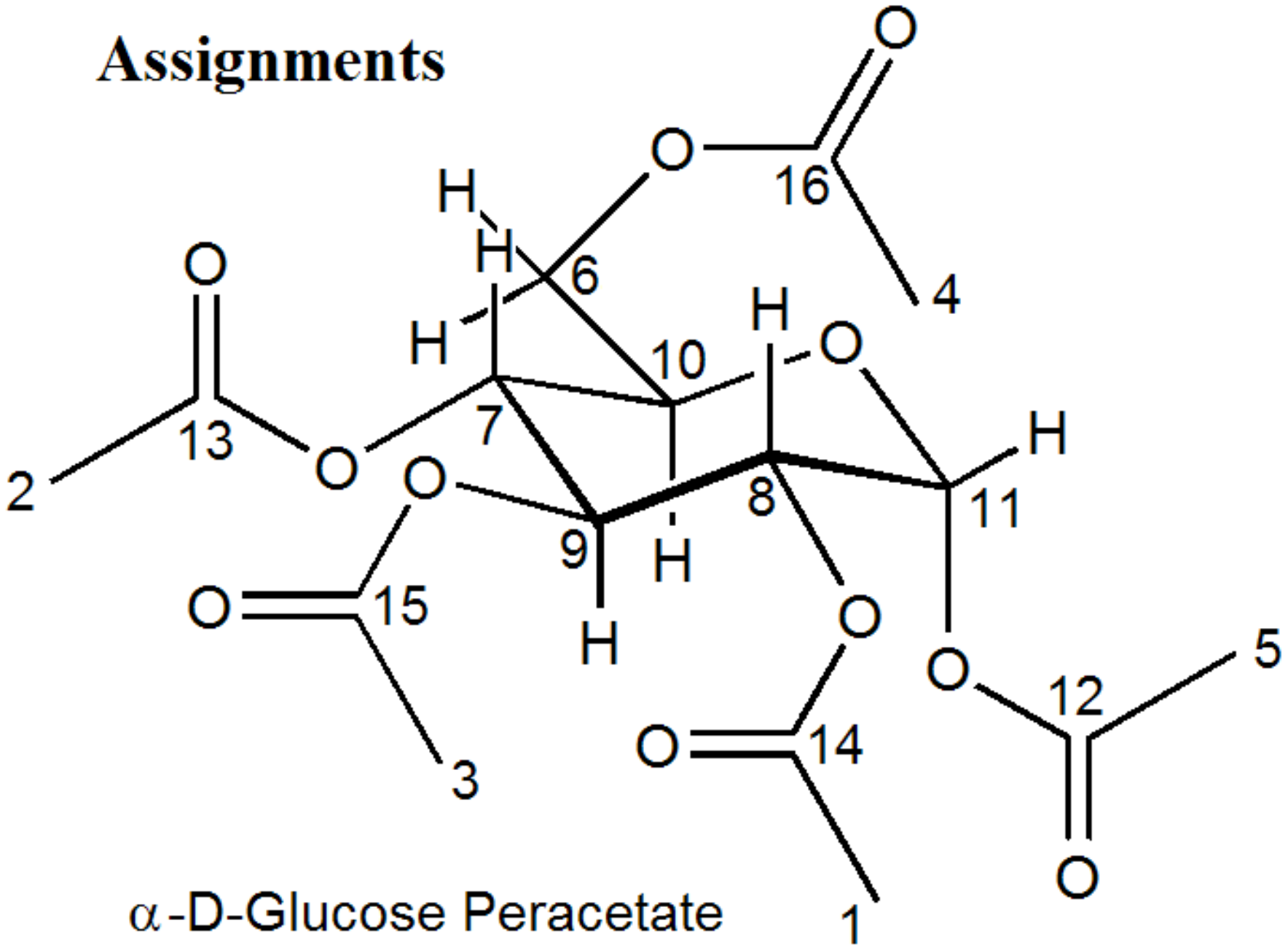


α-D-Glucose Peracetate

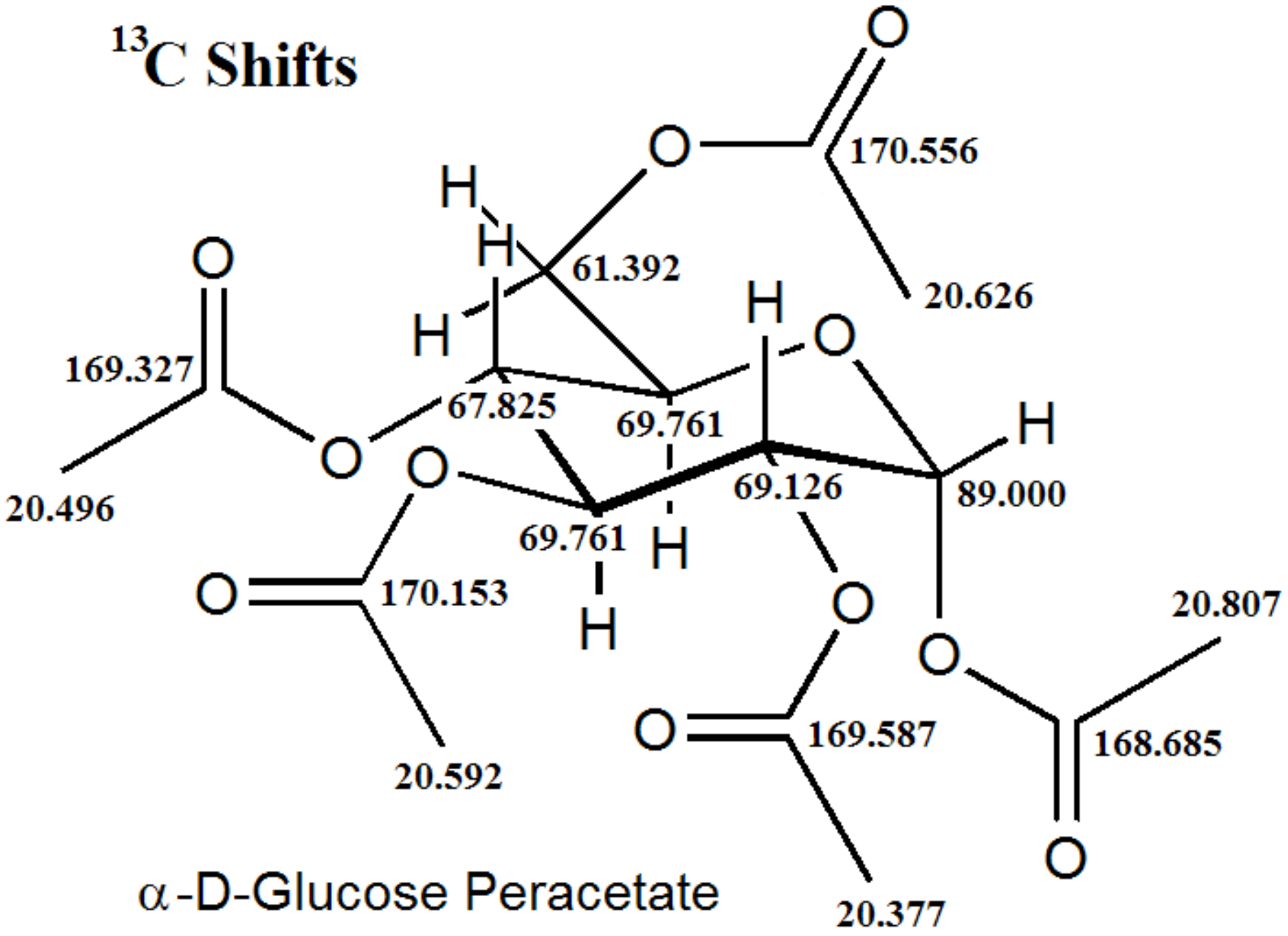

5
4
2
3
1
^{1}H
HMBC
6
7
8
9/10
11
^{13}C
H-C-O-CO-CH$_3$
2.22 2.21 2.20 2.19 2.18 2.17 2.16 2.15 2.14 2.13 2.12 2.11 2.10 2.09 2.08 2.07 2.06 2.05 2.04 2.03 2.02 2.01 2.00 1.99
f2 (ppm)
60 65 70 75 80 85 90
f1 (ppm)


4-bond:
H(methyl) to C-O
HMBC
α-D-Glucose Peracetate

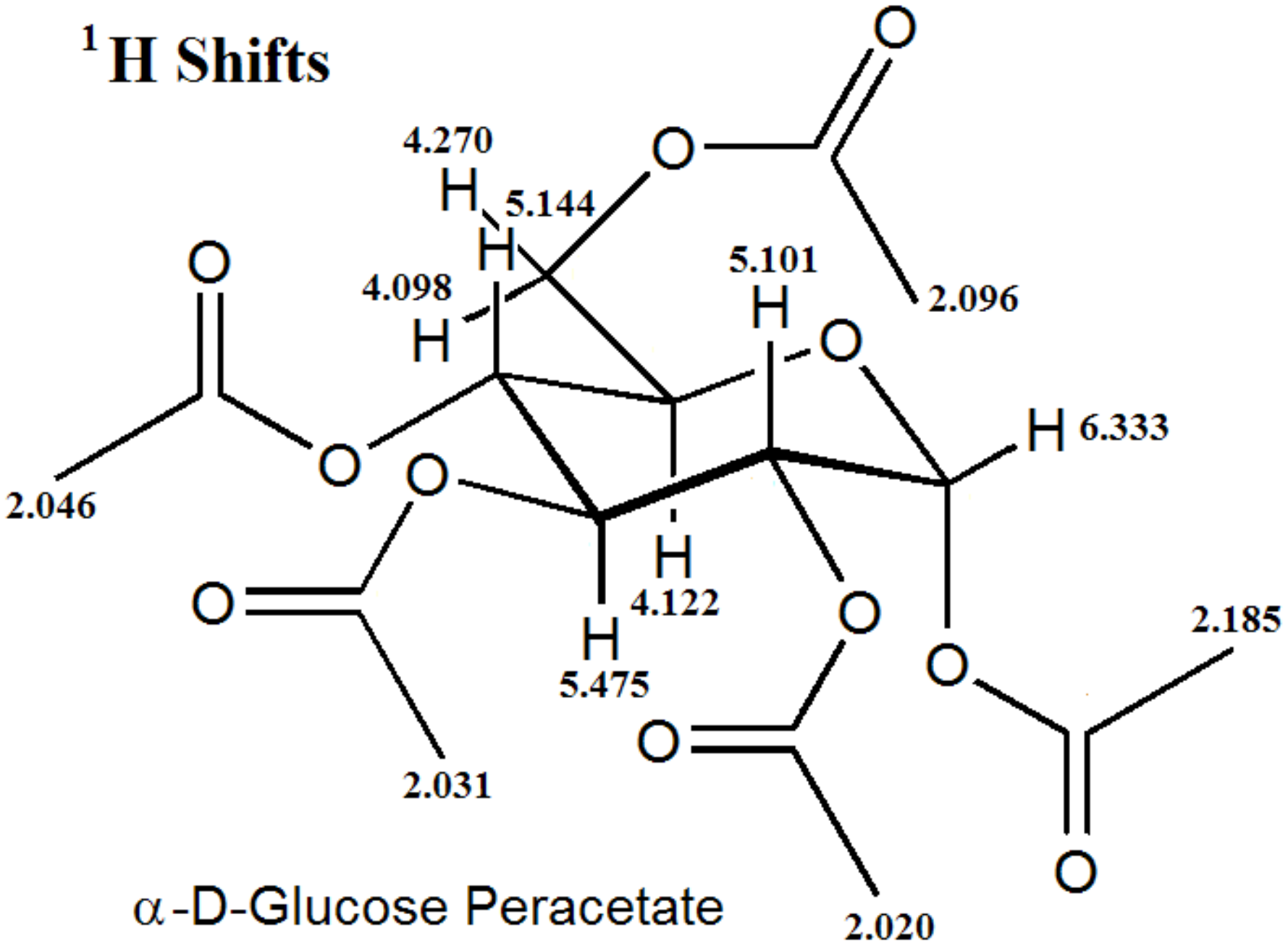
Assignments



α-D-Glucose Peracetate


^{13}C Shifts
170.556
20.626
61.392
169.327
67.825
69.761
20.496
69.126
89.000
69.761
170.153
20.807
20.592
169.587
168.685
20.377
α-D-Glucose Peracetate

^{1}H Shifts



α-D-Glucose Peracetate