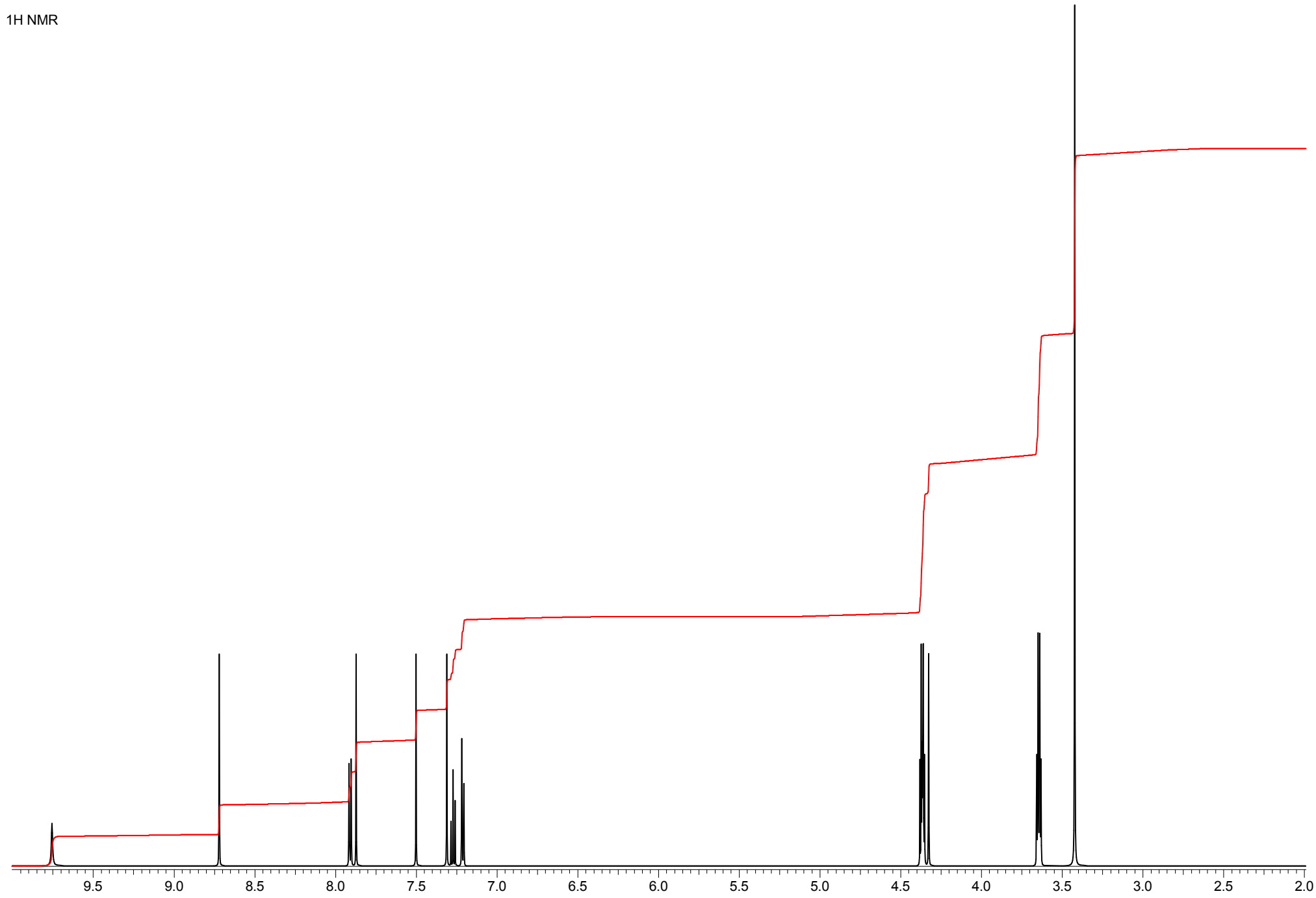
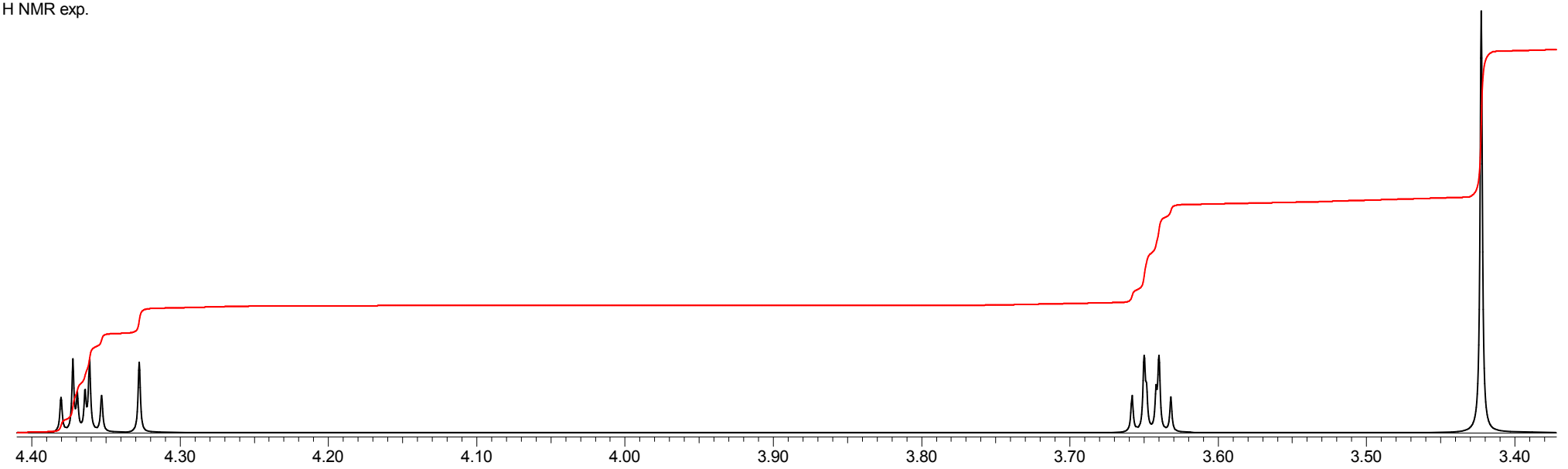
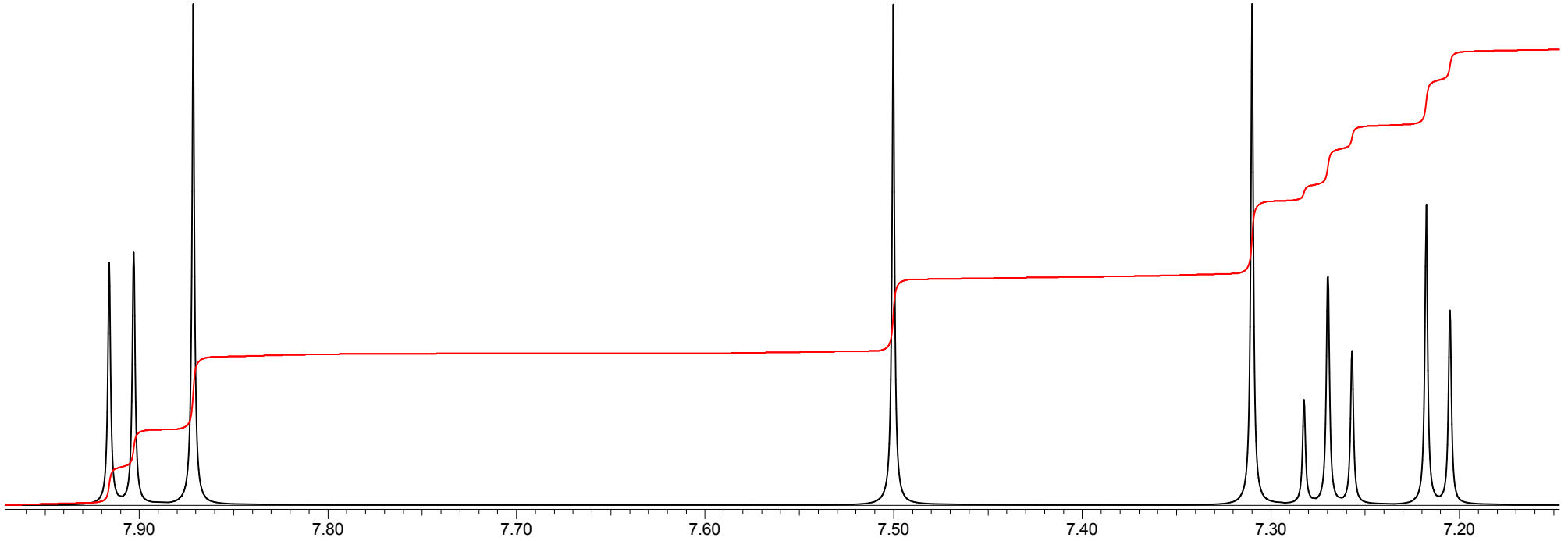
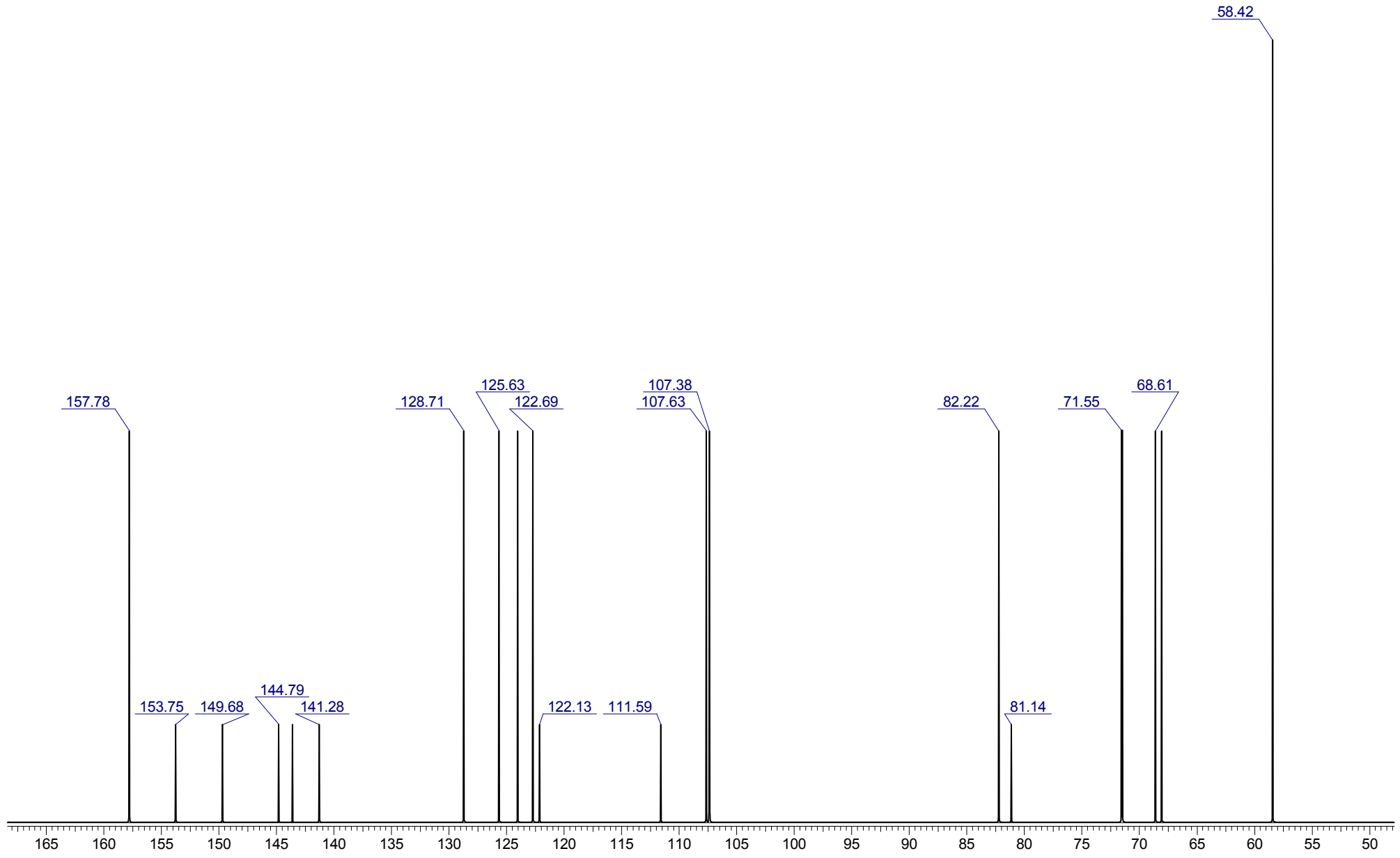

1H NMR
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0

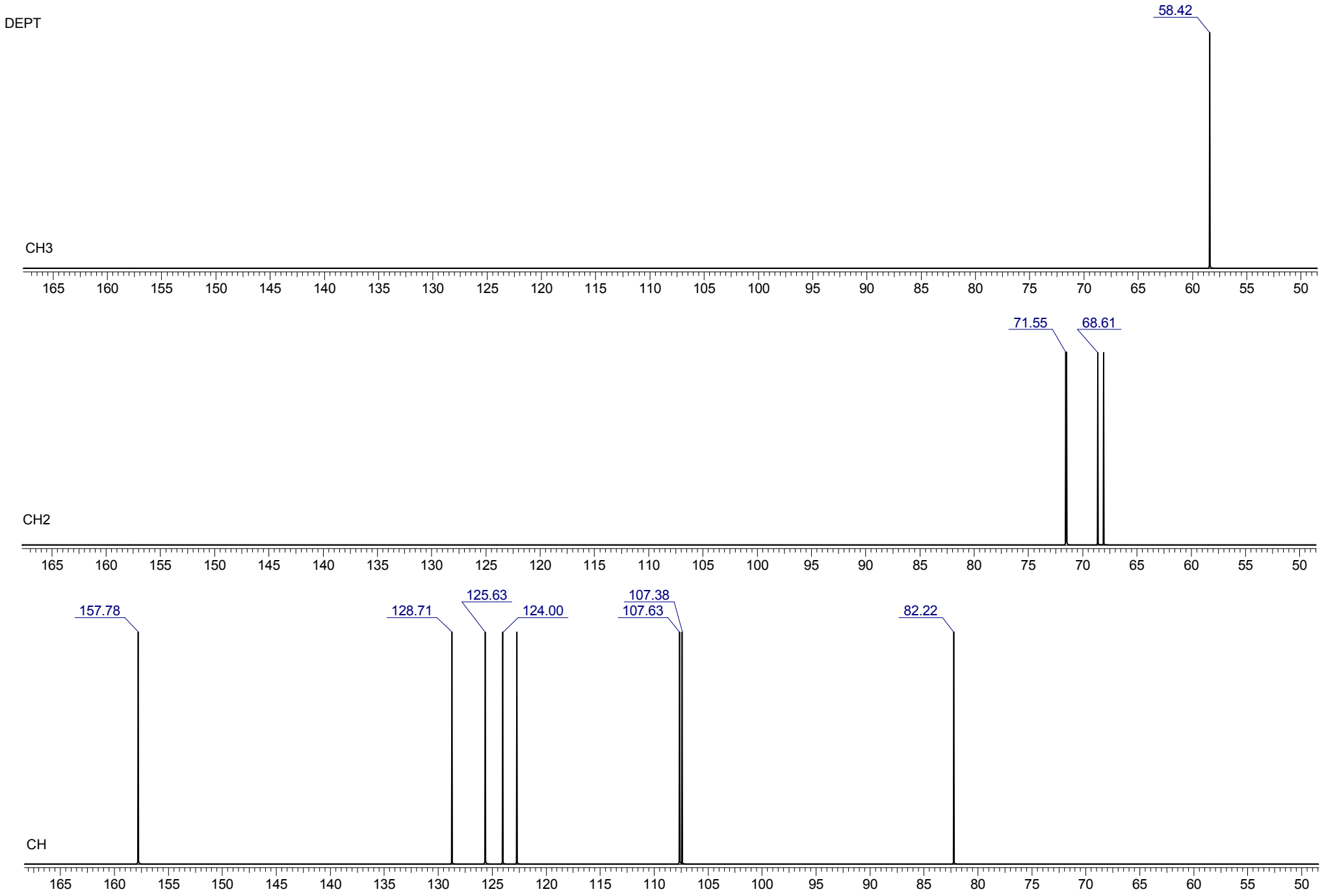
1H NMR exp.


4.40
4.30
4.20
4.10
4.00
3.90
3.80
3.70
3.60
3.50
3.40

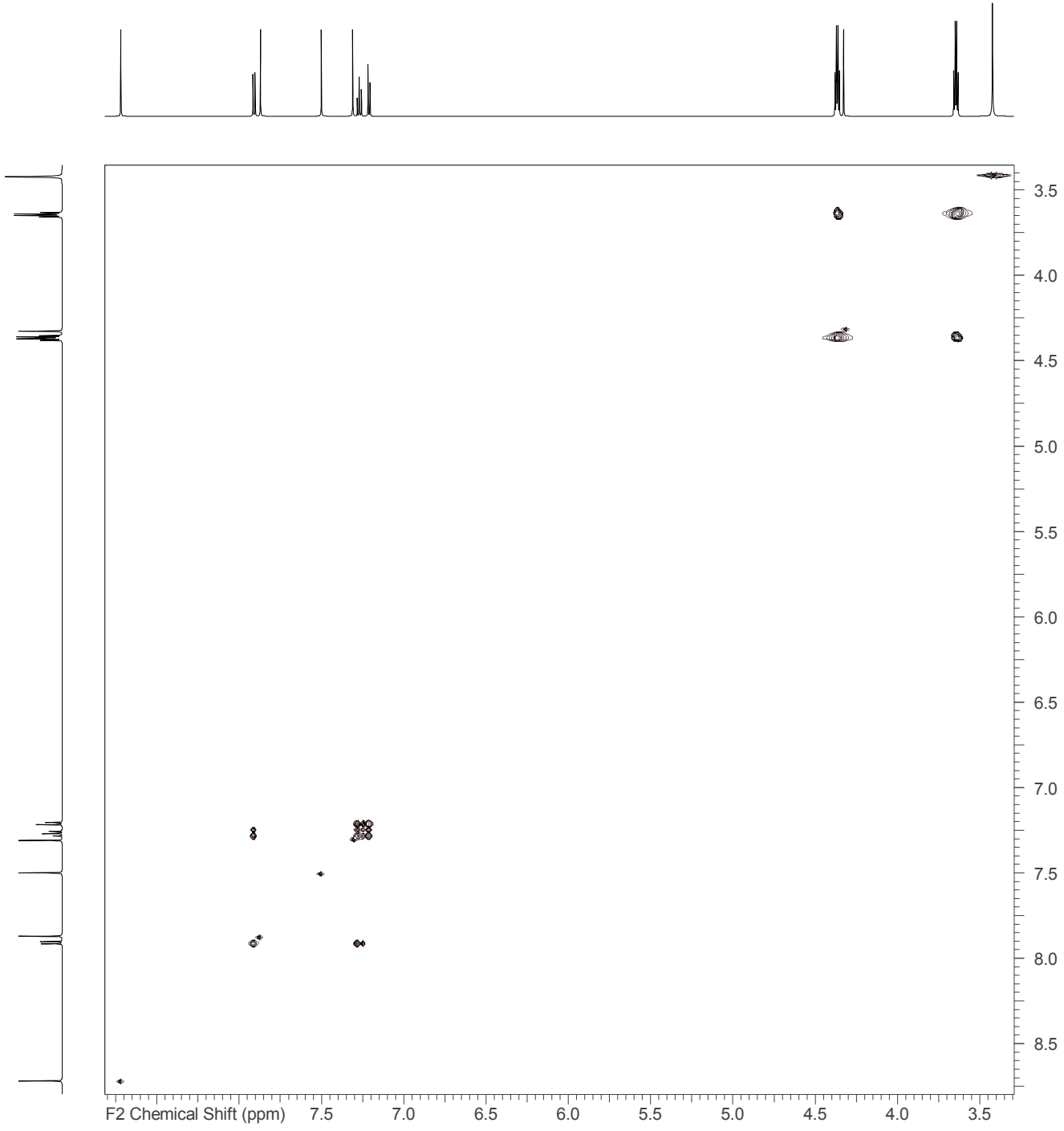

7.90
7.80
7.70
7.60
7.50
7.40
7.30
7.20

13C

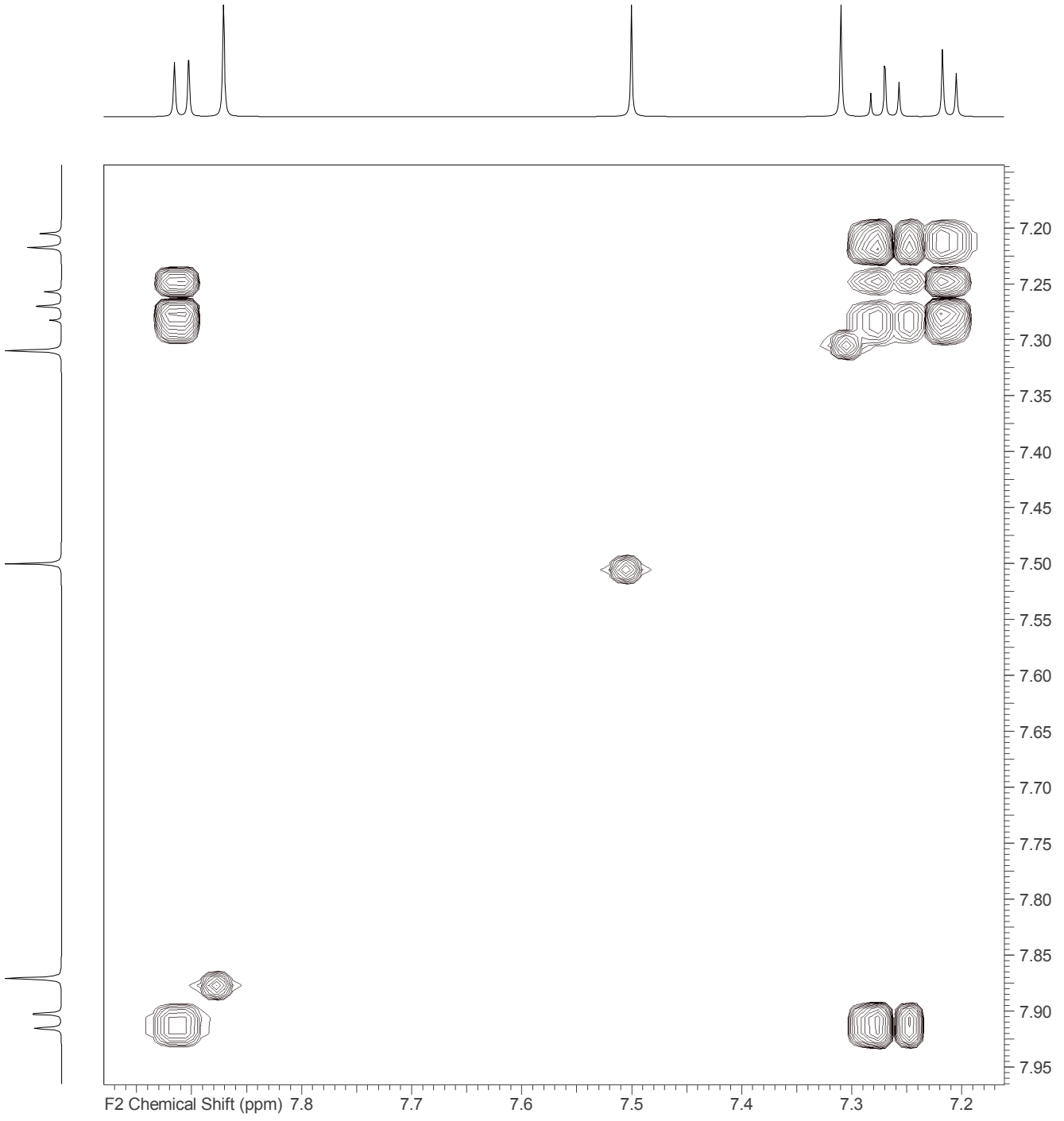

58.42
157.78
128.71
125.63
122.69
107.38
107.63
82.22
71.55
68.61
153.75
149.68
144.79
141.28
122.13
111.59
81.14
165
160
155
150
145
140
135
130
125
120
115
110
105
100
95
90
85
80
75
70
65
60
55
50


DEPT
58.42
CH3
165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50
71.55
68.61
CH2
165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50
157.78
128.71
125.63
124.00
107.38
107.63
82.22
CH
165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50

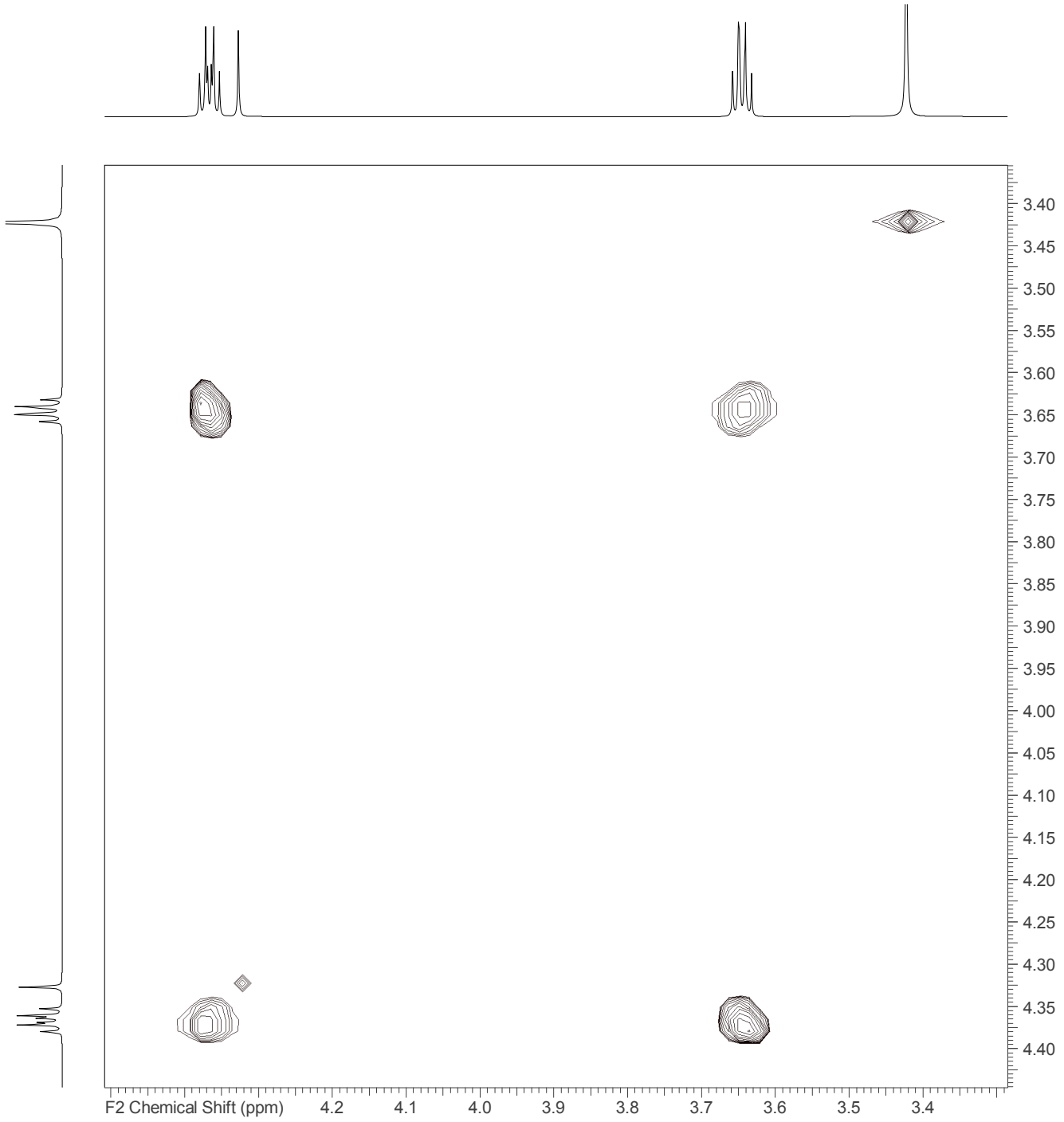
COSY


3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
F2 Chemical Shift (ppm)
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5

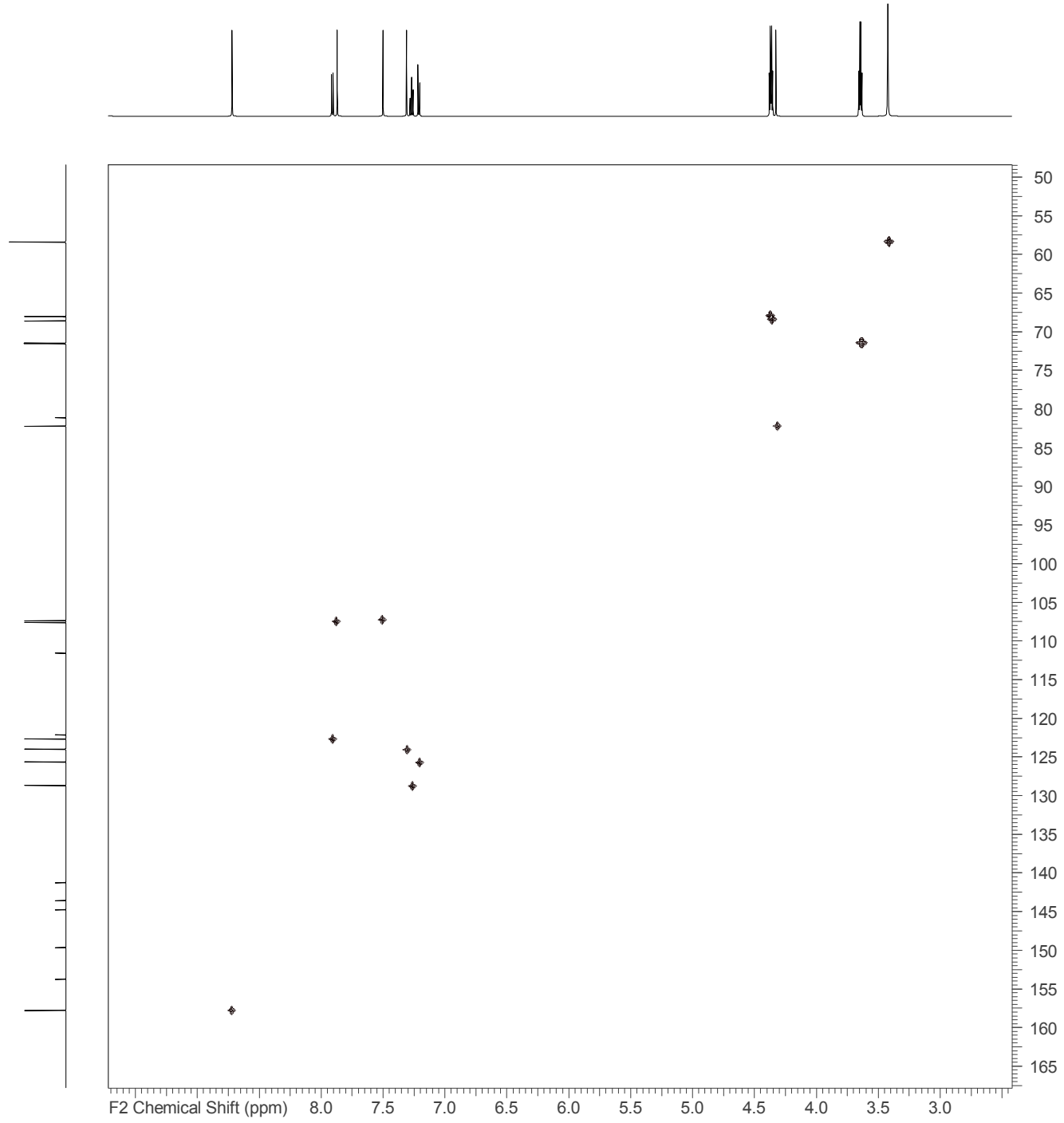
COSY exp.


7.20
7.25
7.30
7.35
7.40
7.45
7.50
7.55
7.60
7.65
7.70
7.75
7.80
7.85
7.90
7.95
F2 Chemical Shift (ppm) 7.8
7.7
7.6
7.5
7.4
7.3
7.2

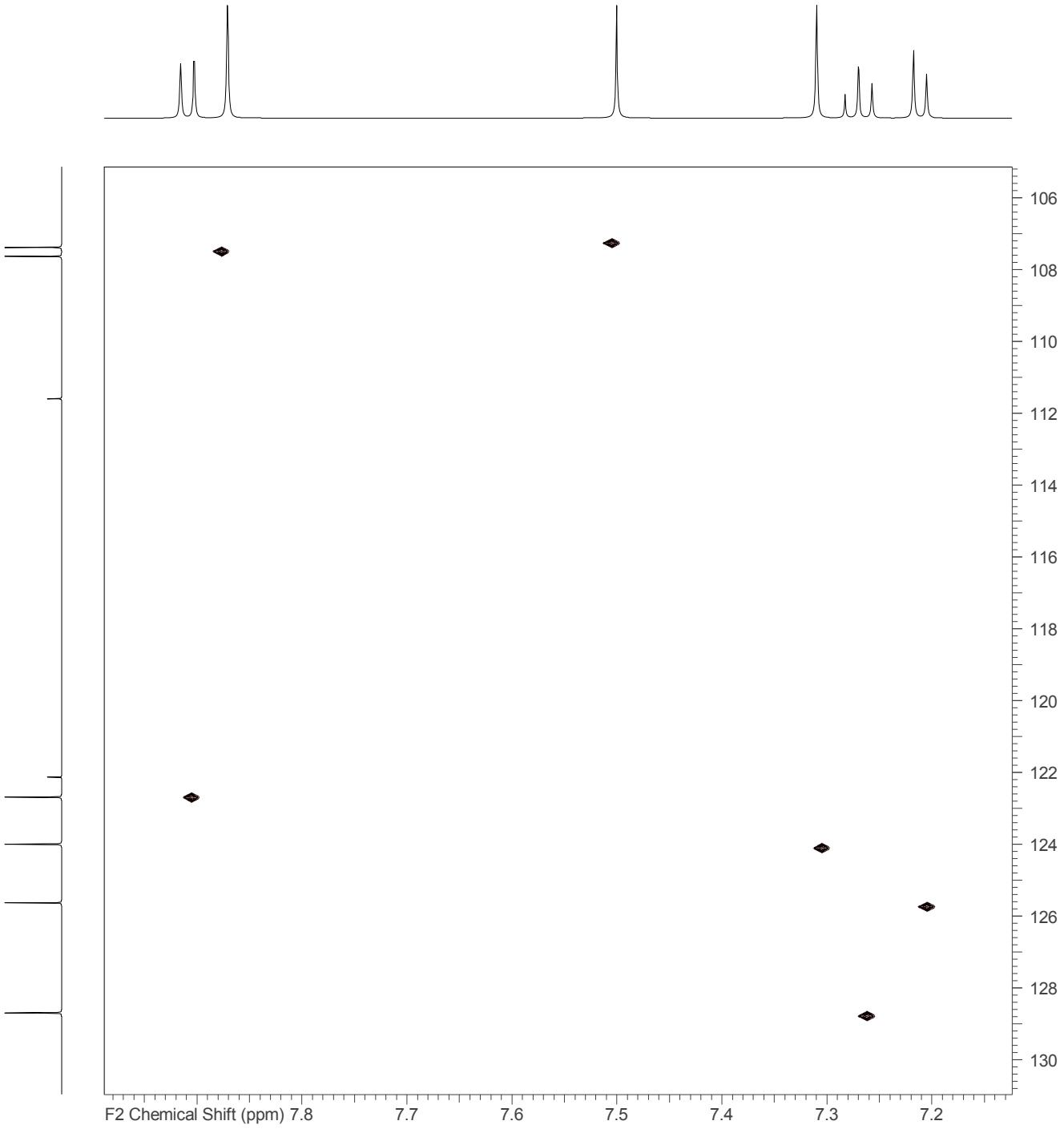
COSY exp.

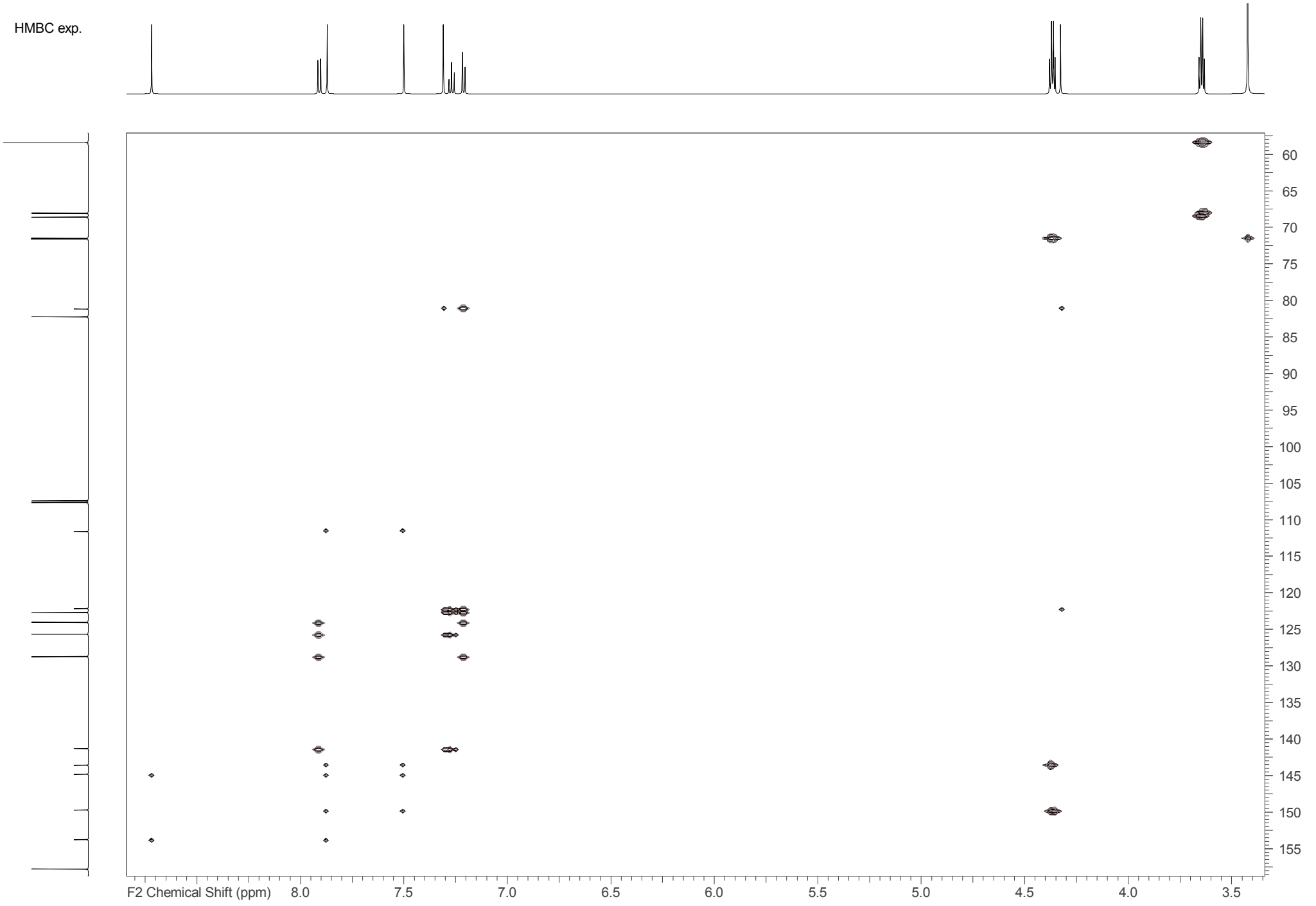

3.40
3.45
3.50
3.55
3.60
3.65
3.70
3.75
3.80
3.85
3.90
3.95
4.00
4.05
4.10
4.15
4.20
4.25
4.30
4.35
4.40
F2 Chemical Shift (ppm)
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4

HSQC

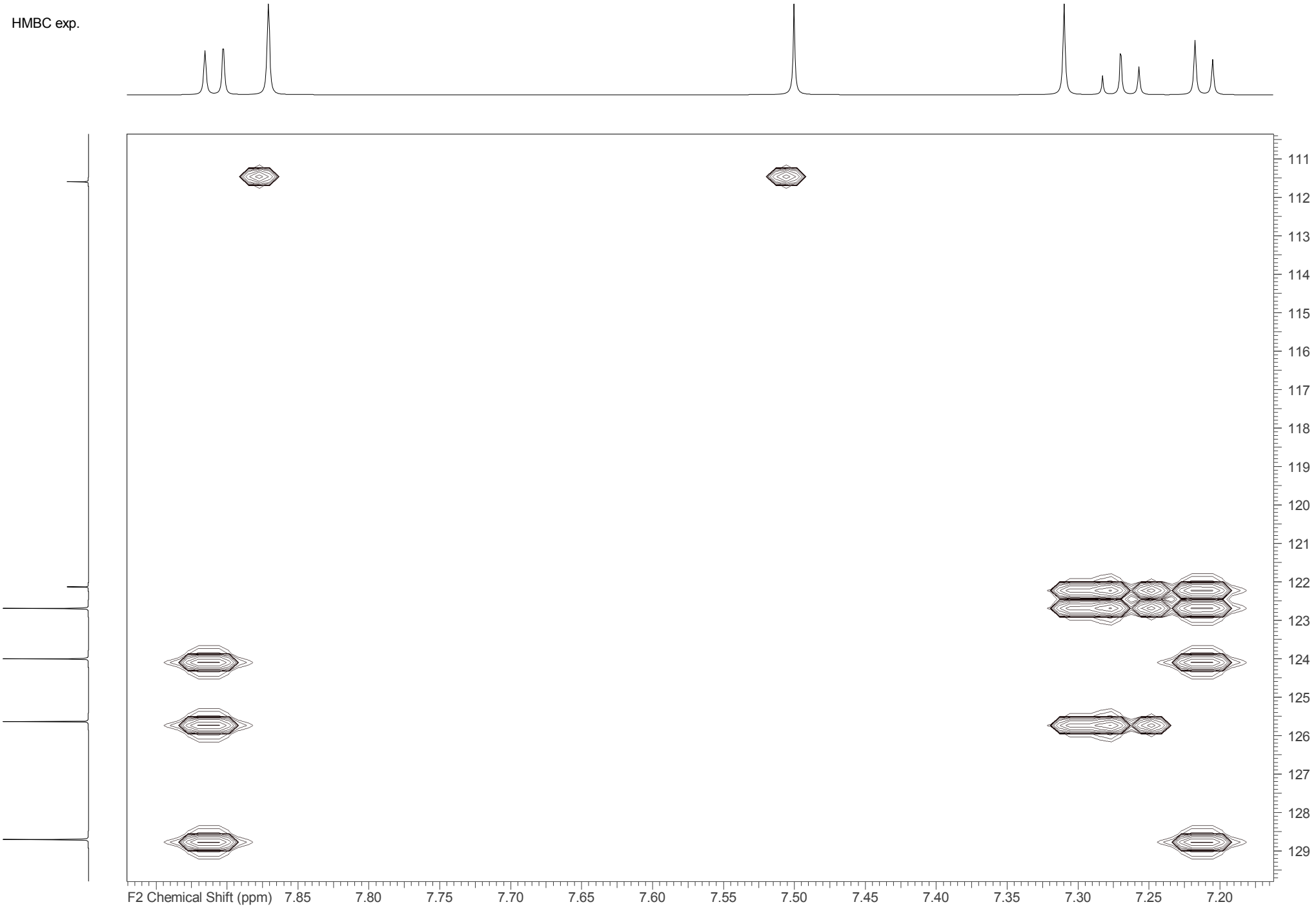

50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150
155
160
165
F2 Chemical Shift (ppm)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0

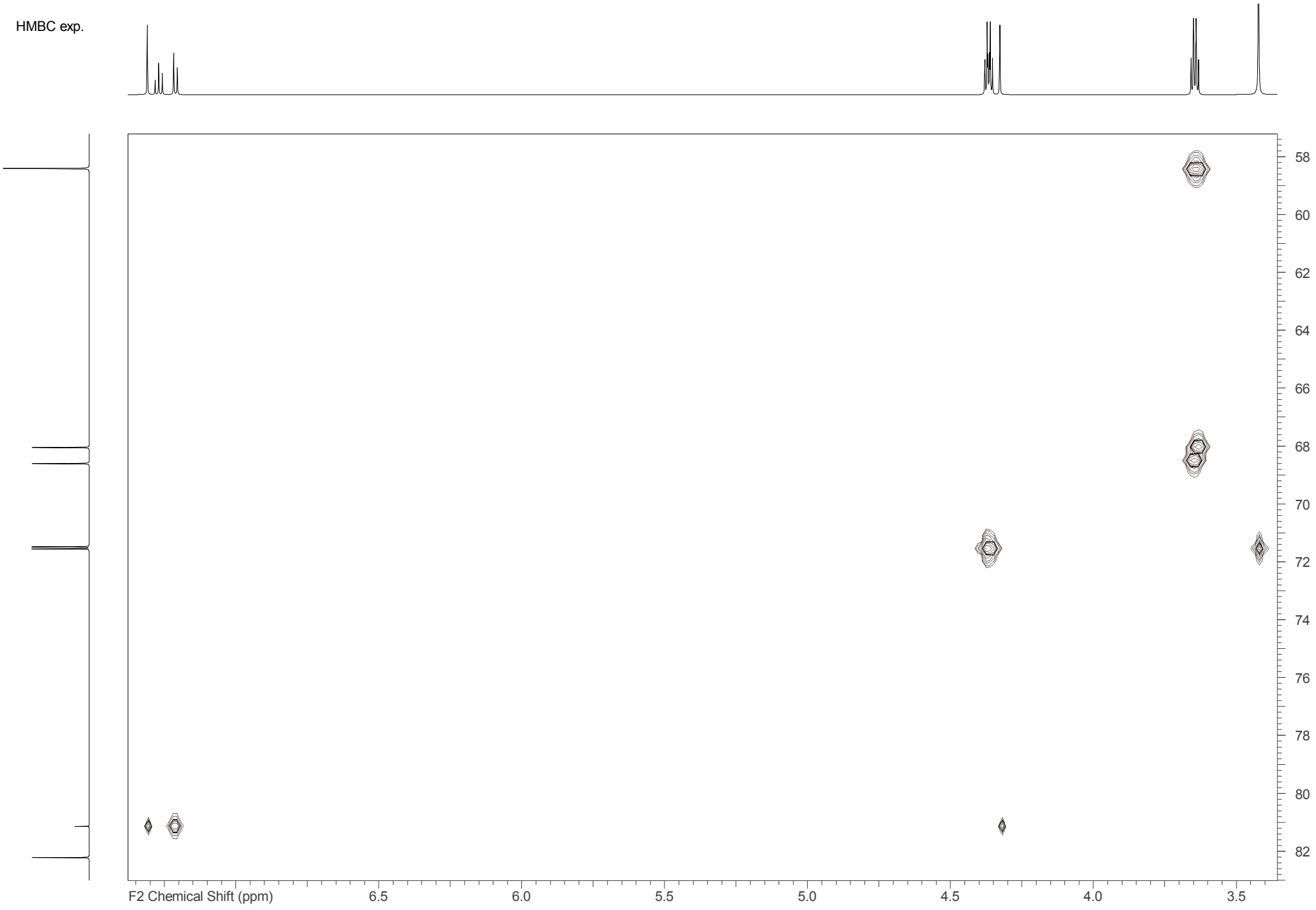
HSQC exp.


106
108
110
112
114
116
118
120
122
124
126
128
130
F2 Chemical Shift (ppm) 7.8
7.7
7.6
7.5
7.4
7.3
7.2


HMBC exp.
F2 Chemical Shift (ppm)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150
155

HMBC exp.


111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
F2 Chemical Shift (ppm) 7.85
7.80
7.75
7.70
7.65
7.60
7.55
7.50
7.45
7.40
7.35
7.30
7.25
7.20


HMBC exp.
58
60
62
64
66
68
70
72
74
76
78
80
82
F2 Chemical Shift (ppm)
6.5
6.0
5.5
5.0
4.5
4.0
3.5