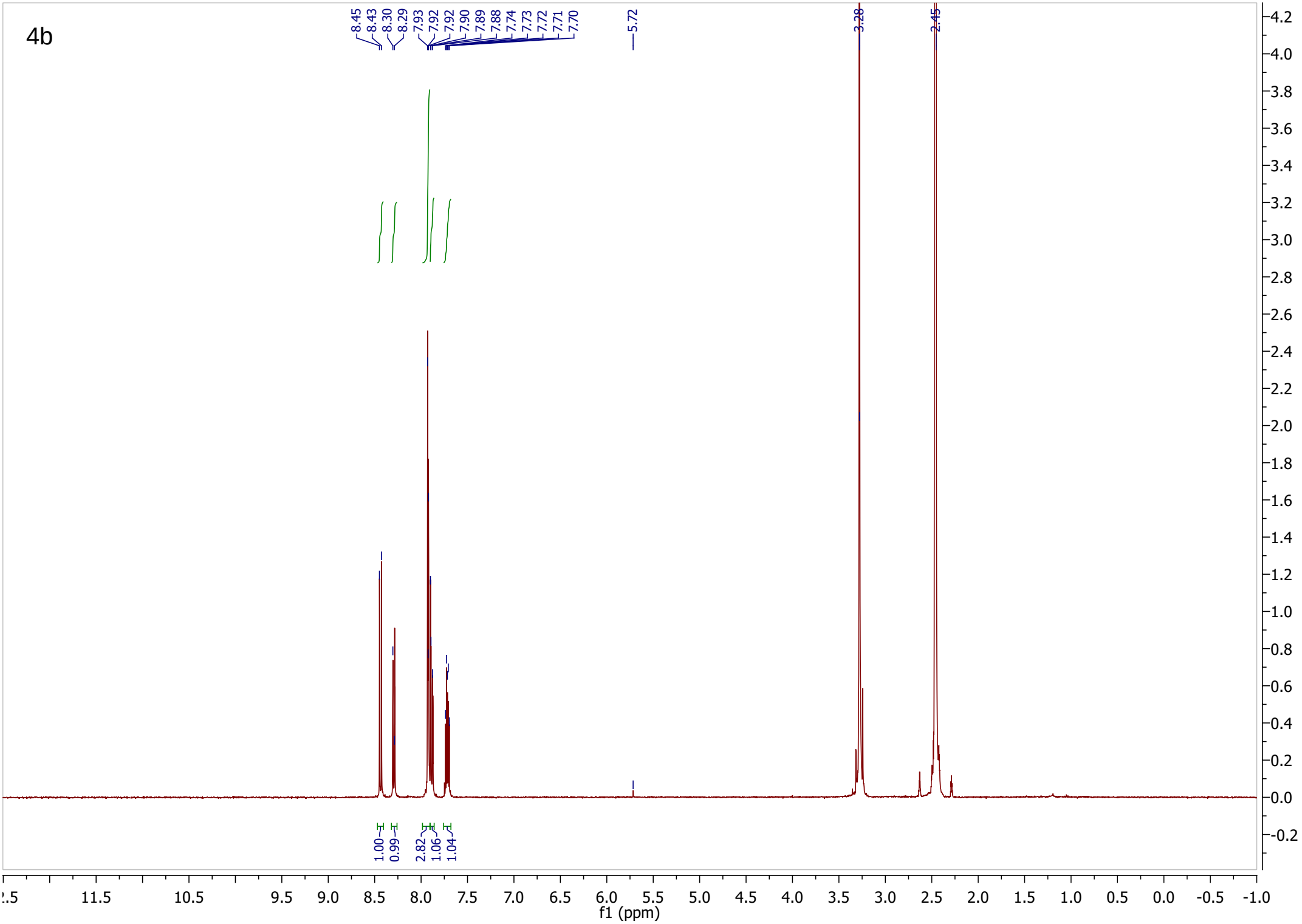
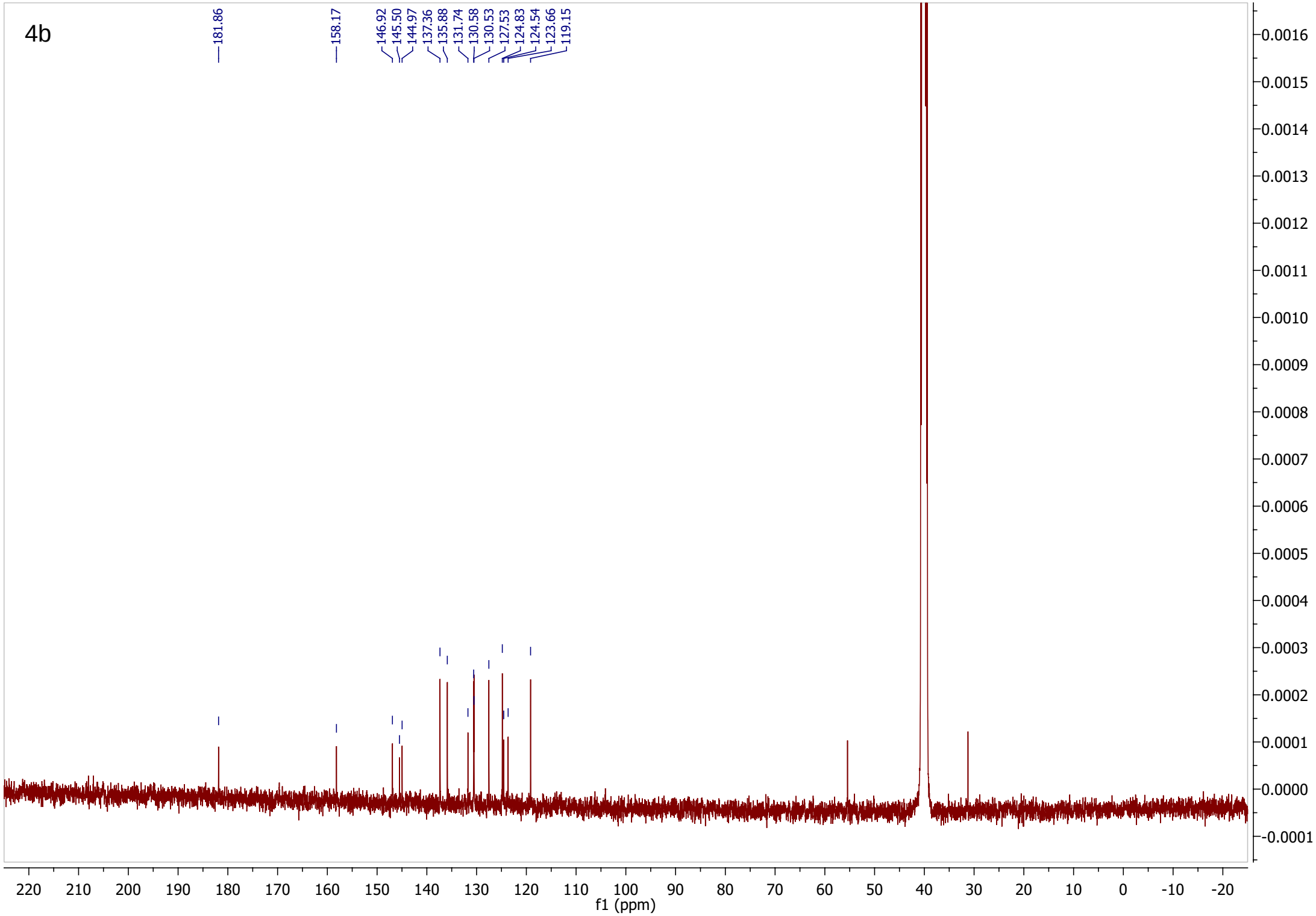

4b
8.45
8.43
8.30
8.29
7.93
7.92
7.92
7.90
7.89
7.88
7.74
7.73
7.72
7.71
7.70
5.72
3.28
2.45
1.00
0.99
2.82
1.06
1.04
f1 (ppm)


4b
181.86
158.17
146.92
145.50
144.97
137.36
135.88
131.74
130.58
130.53
127.53
124.83
124.54
123.66
119.15
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.0010
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
-0.0001
220
210
200
190
180
170
160
150
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130
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110
100
90
80
70
60
50
40
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20
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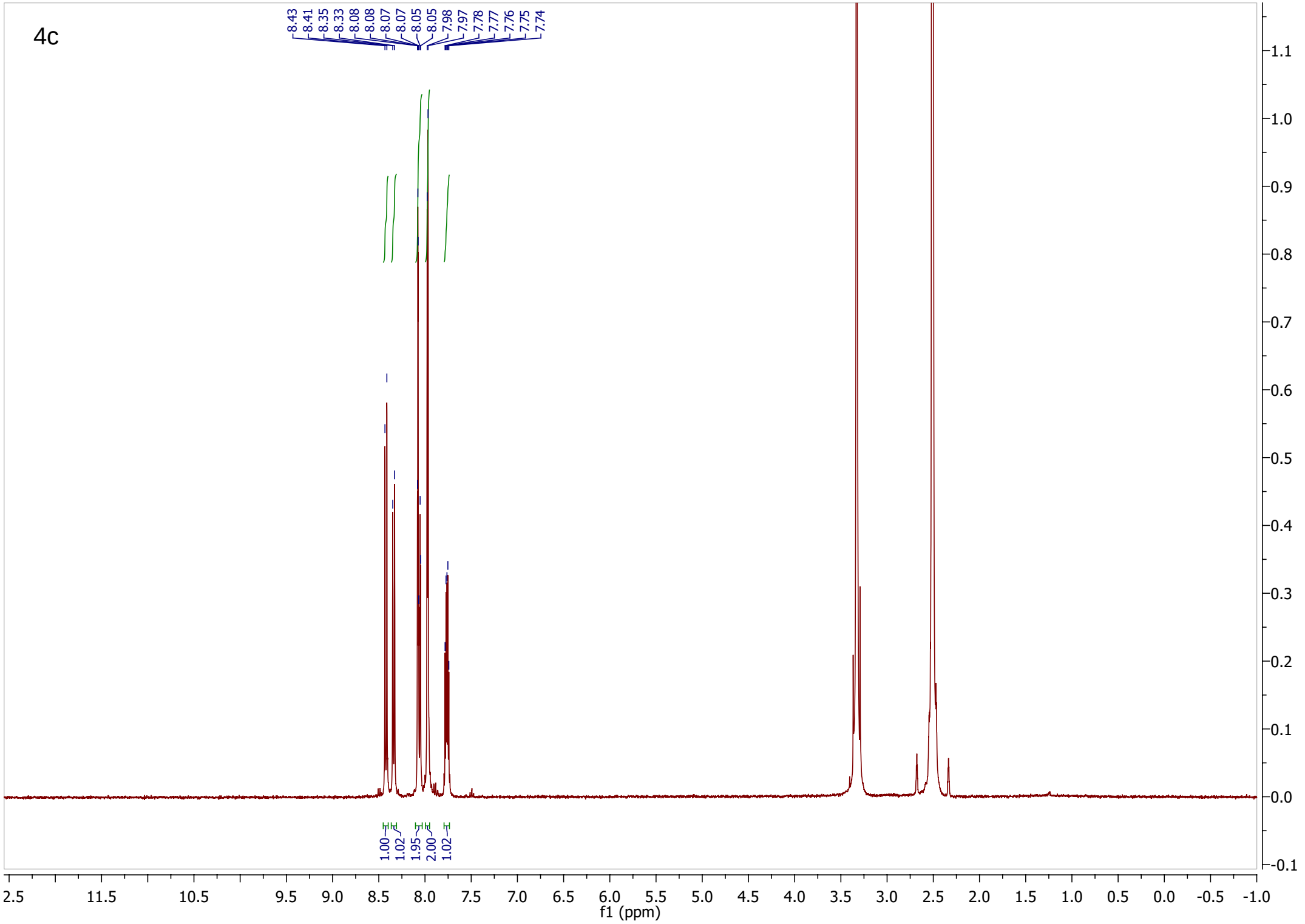
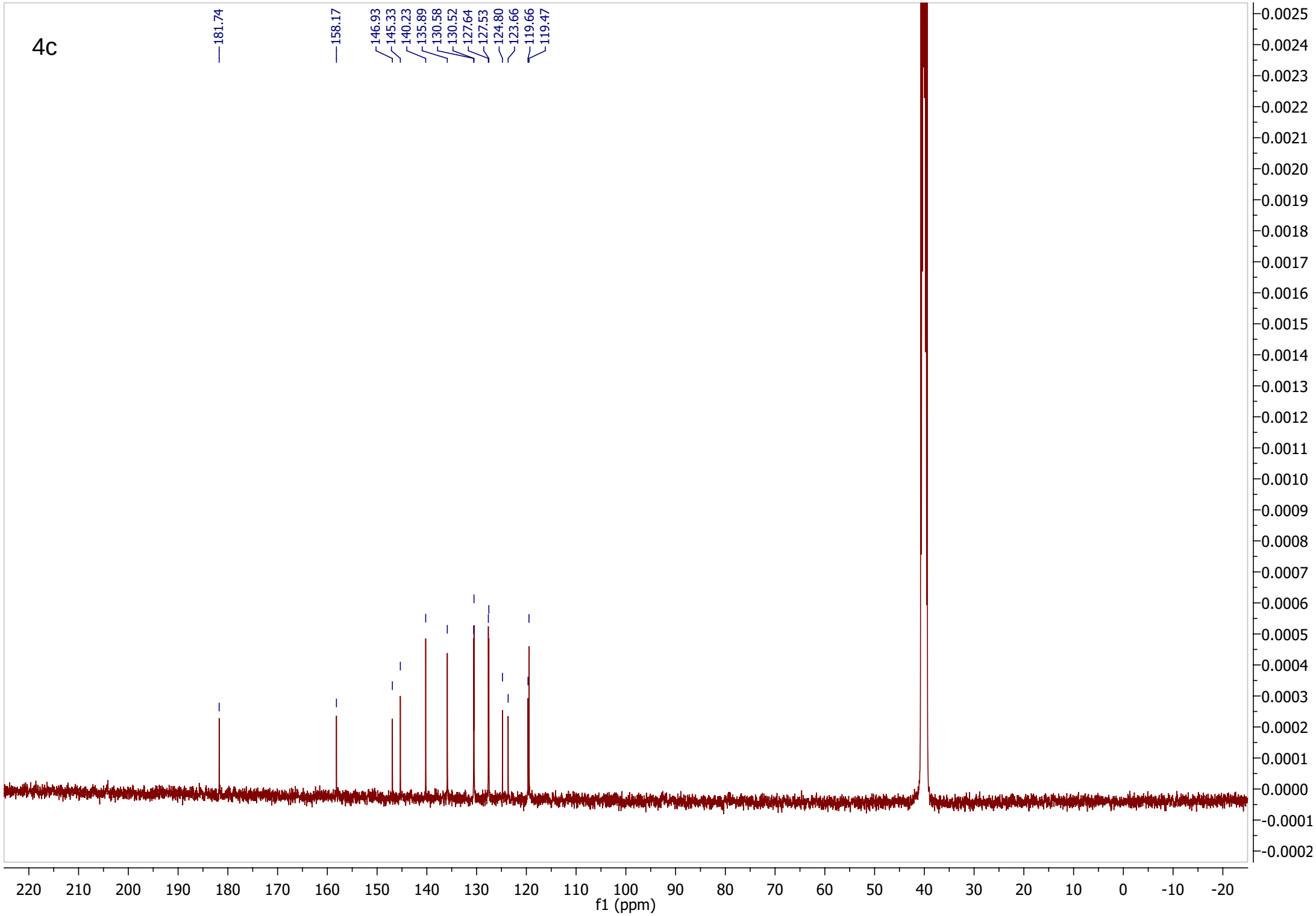
0
-10
-20
f1 (ppm)


4c
8.43
8.41
8.35
8.33
8.08
8.08
8.07
8.07
8.05
8.05
7.98
7.97
7.78
7.77
7.76
7.75
7.74
1.00
1.02
1.95
2.00
1.02
f1 (ppm)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158.17
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140.23
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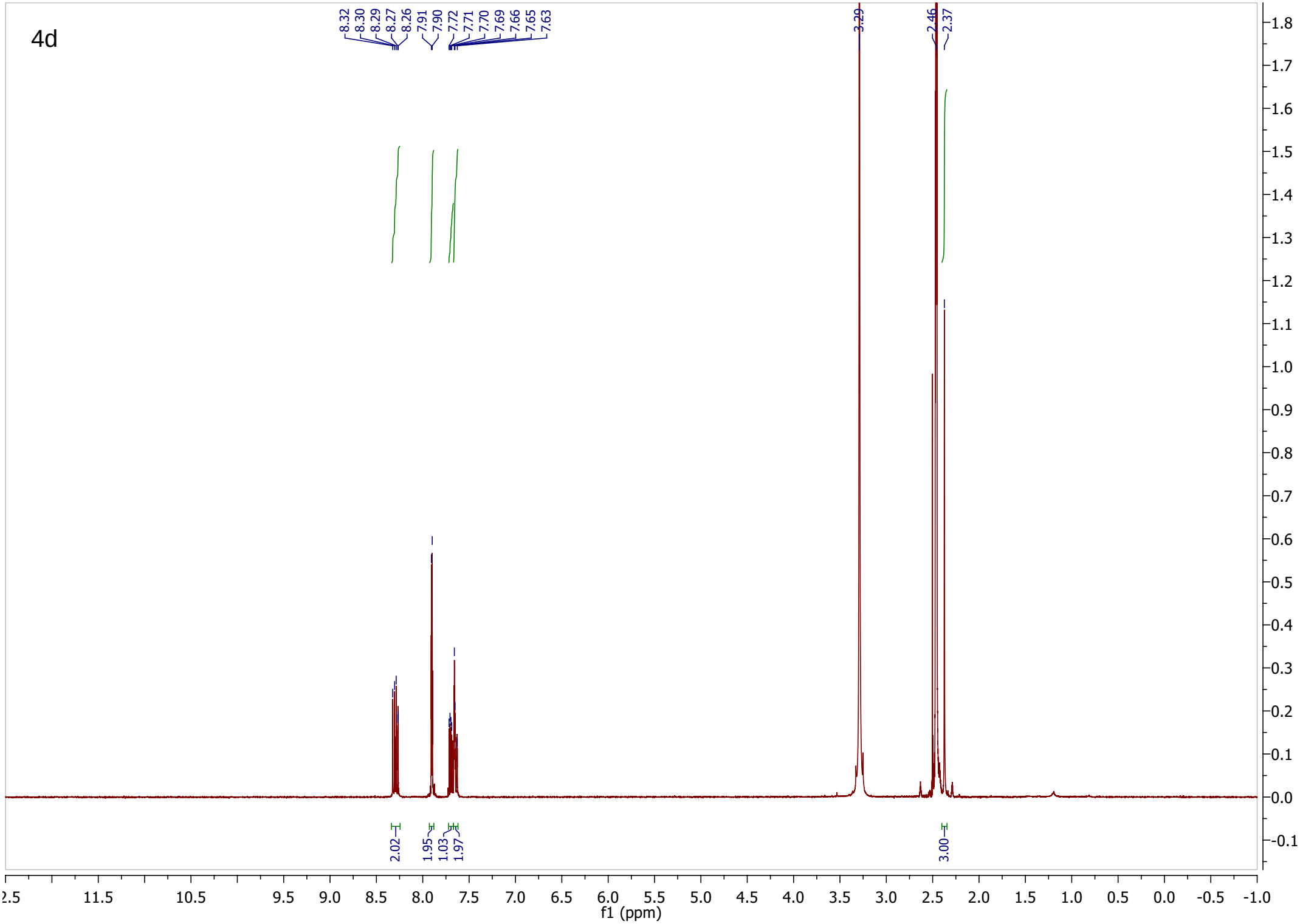
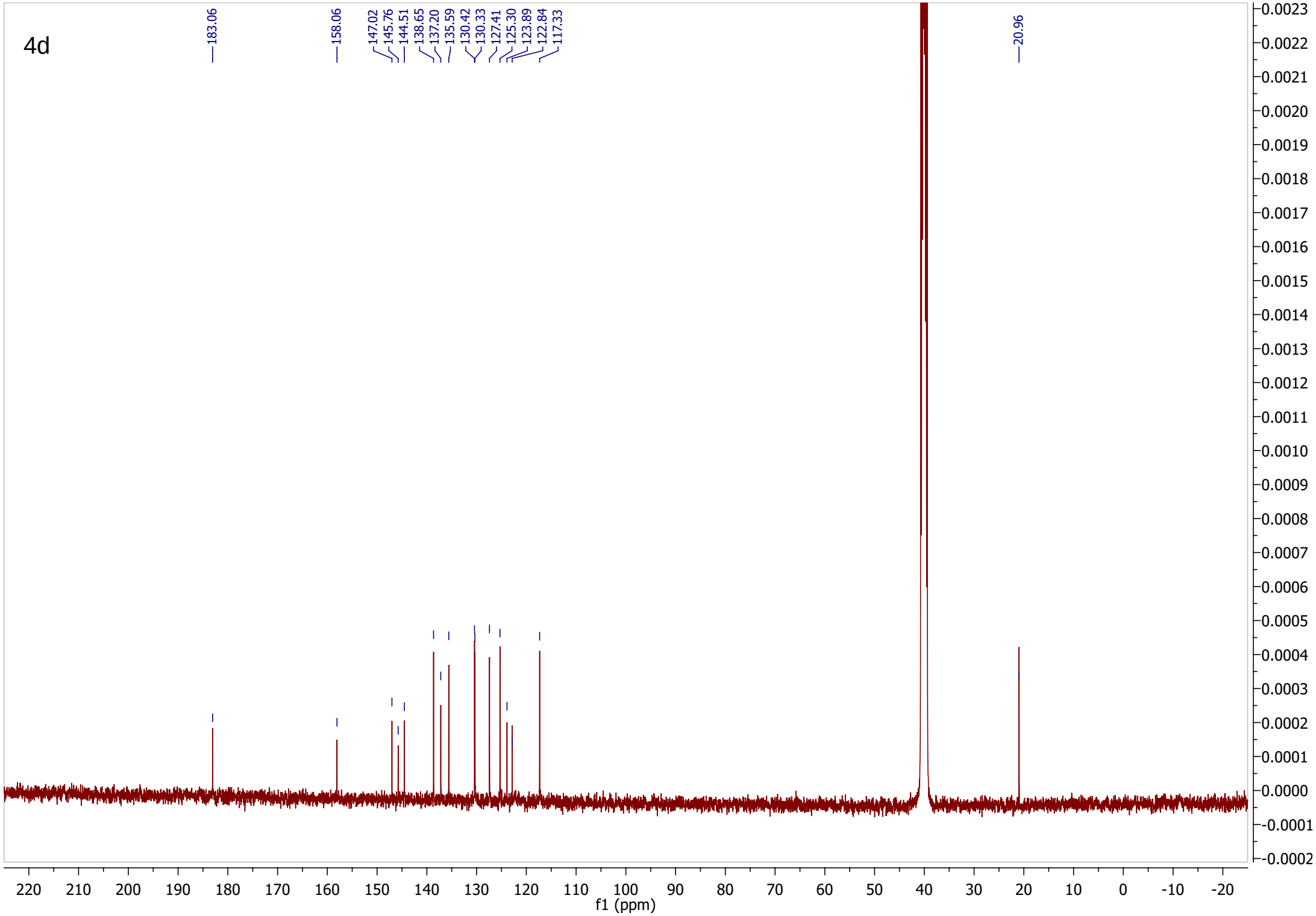
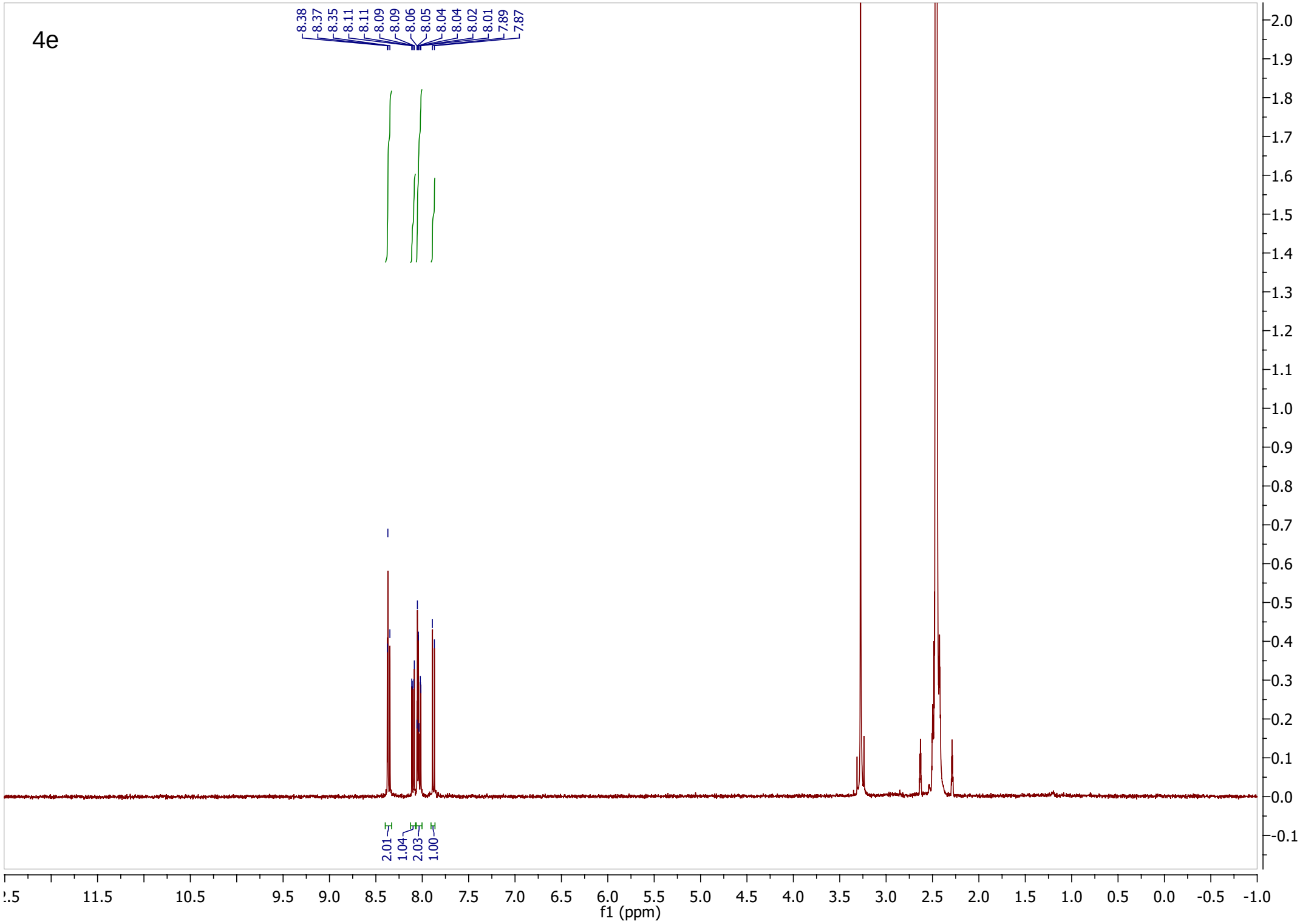
130.58
130.52
127.64
127.53
124.80
123.66
119.66
119.47
f1 (ppm)


4d
8.32
8.30
8.29
8.27
8.26
7.91
7.90
7.72
7.71
7.70
7.69
7.66
7.65
7.63
3.29
2.46
2.37
2.02
1.95
1.03
1.97
3.00
f1 (ppm)


4d
183.06
158.06
147.02
145.76
144.51
138.65
137.20
135.59
130.42
130.33
127.41
125.30
123.89
122.84
117.33
20.96
f1 (ppm)


4e
8.38
8.37
8.35
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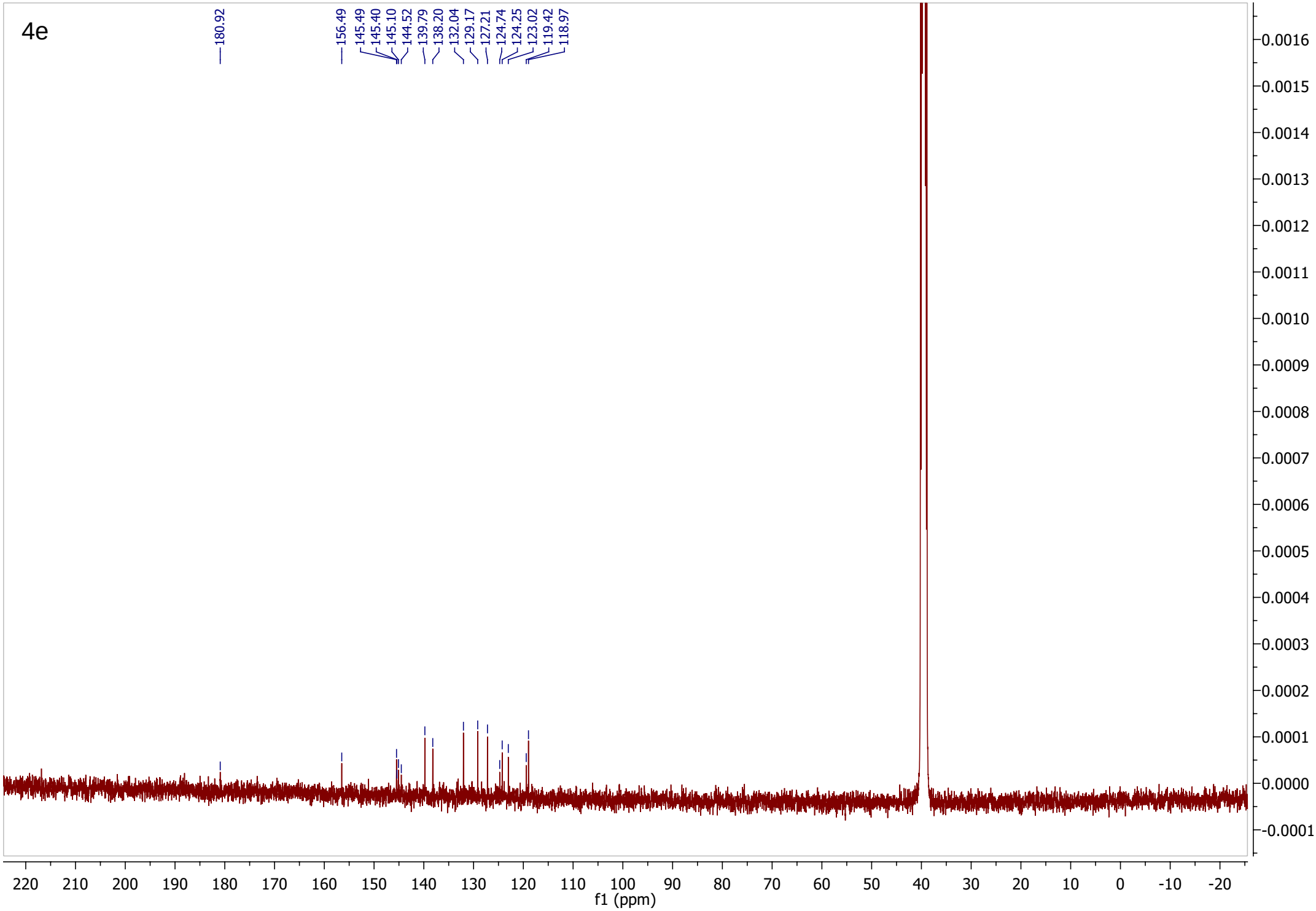
8.11
8.09
8.09
8.06
8.05
8.04
8.04
8.02
8.01
7.89
7.87
2.01
1.04
2.03
1.00
f1 (ppm)


4e
180.92
156.49
145.49
145.40
145.10
144.52
139.79
138.20
132.04
129.17
127.21
124.74
124.25
123.02
119.42
118.97
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.0010
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
-0.0001
220
210
200
190
180
170
160
150
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130
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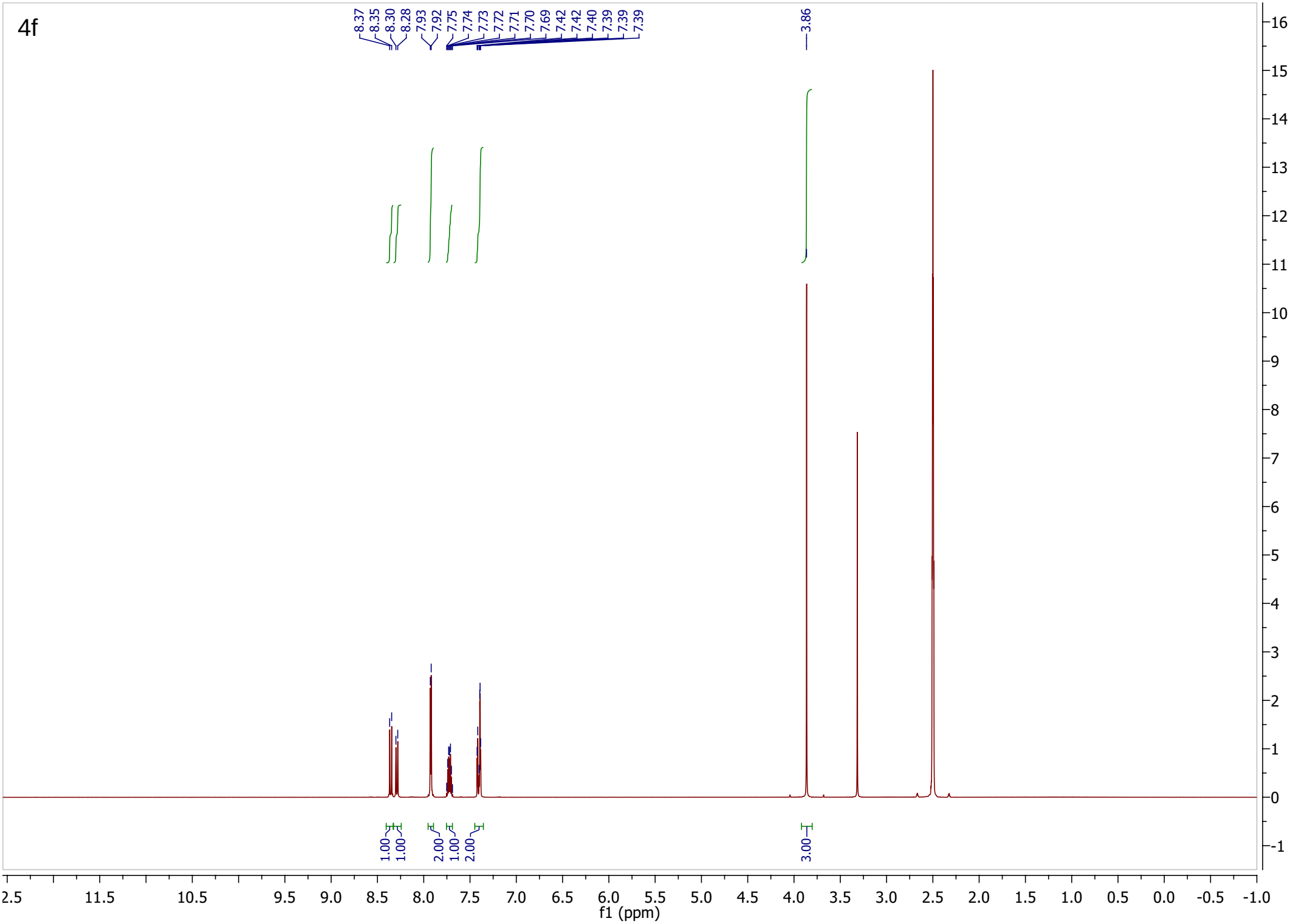
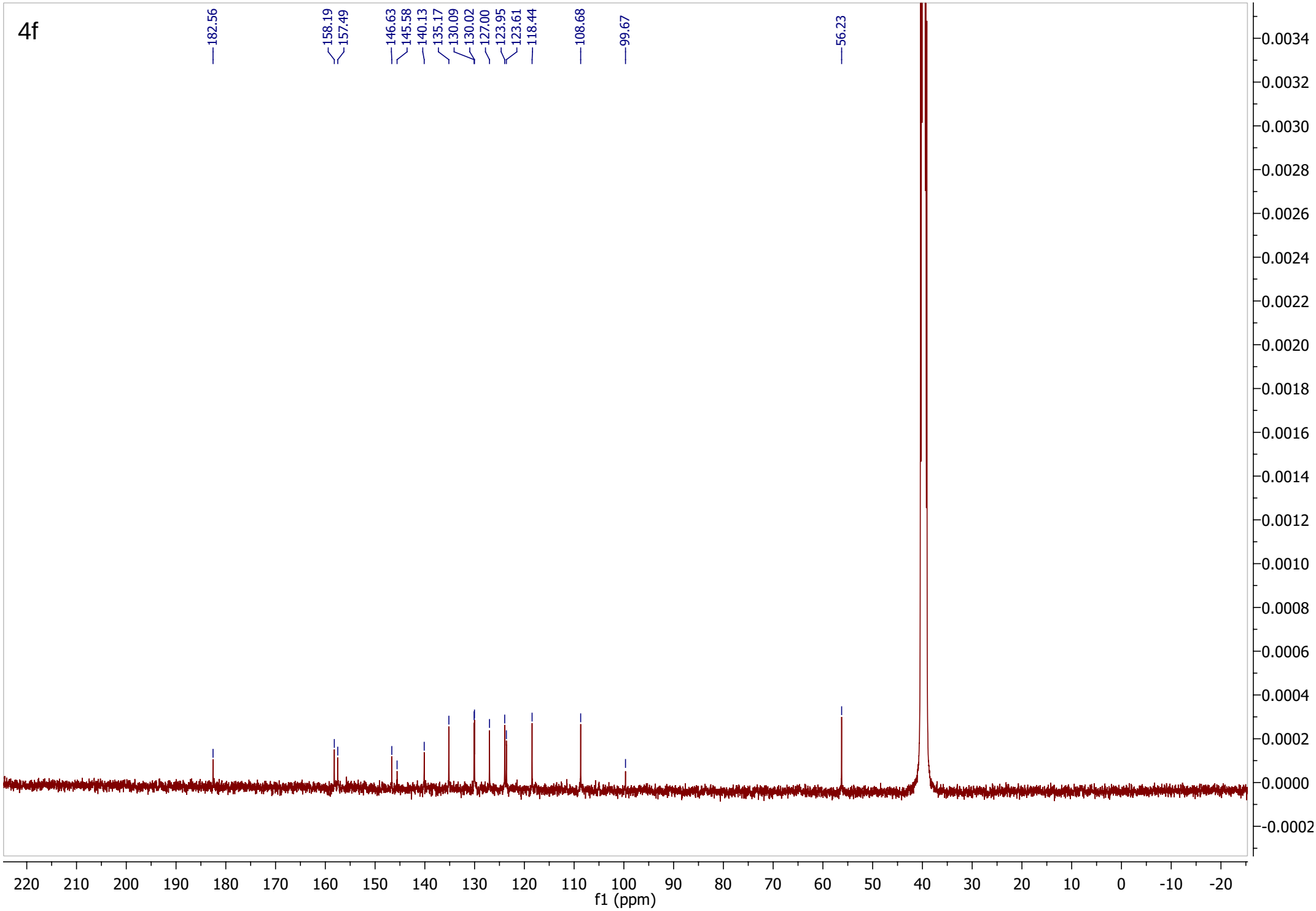
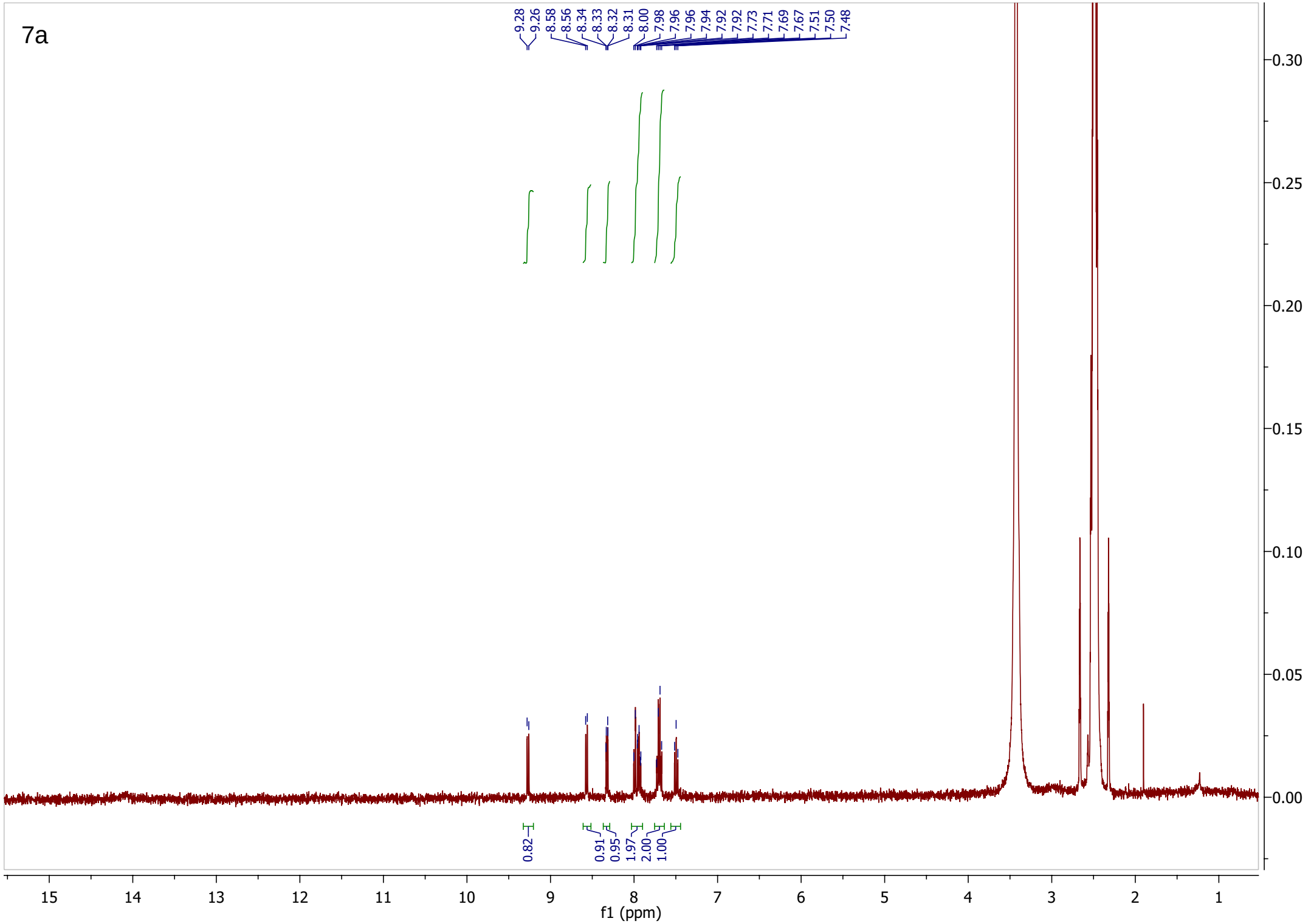
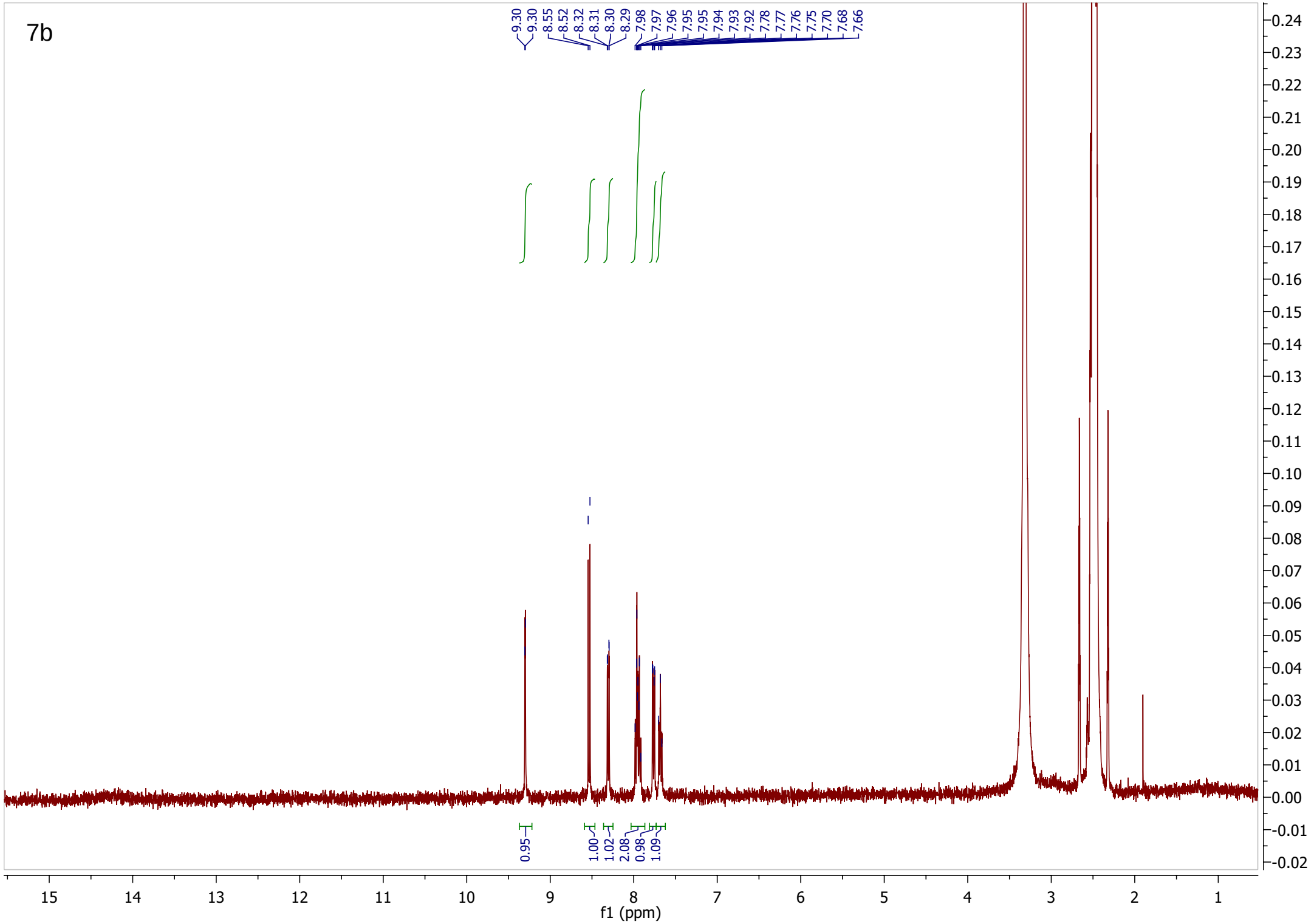
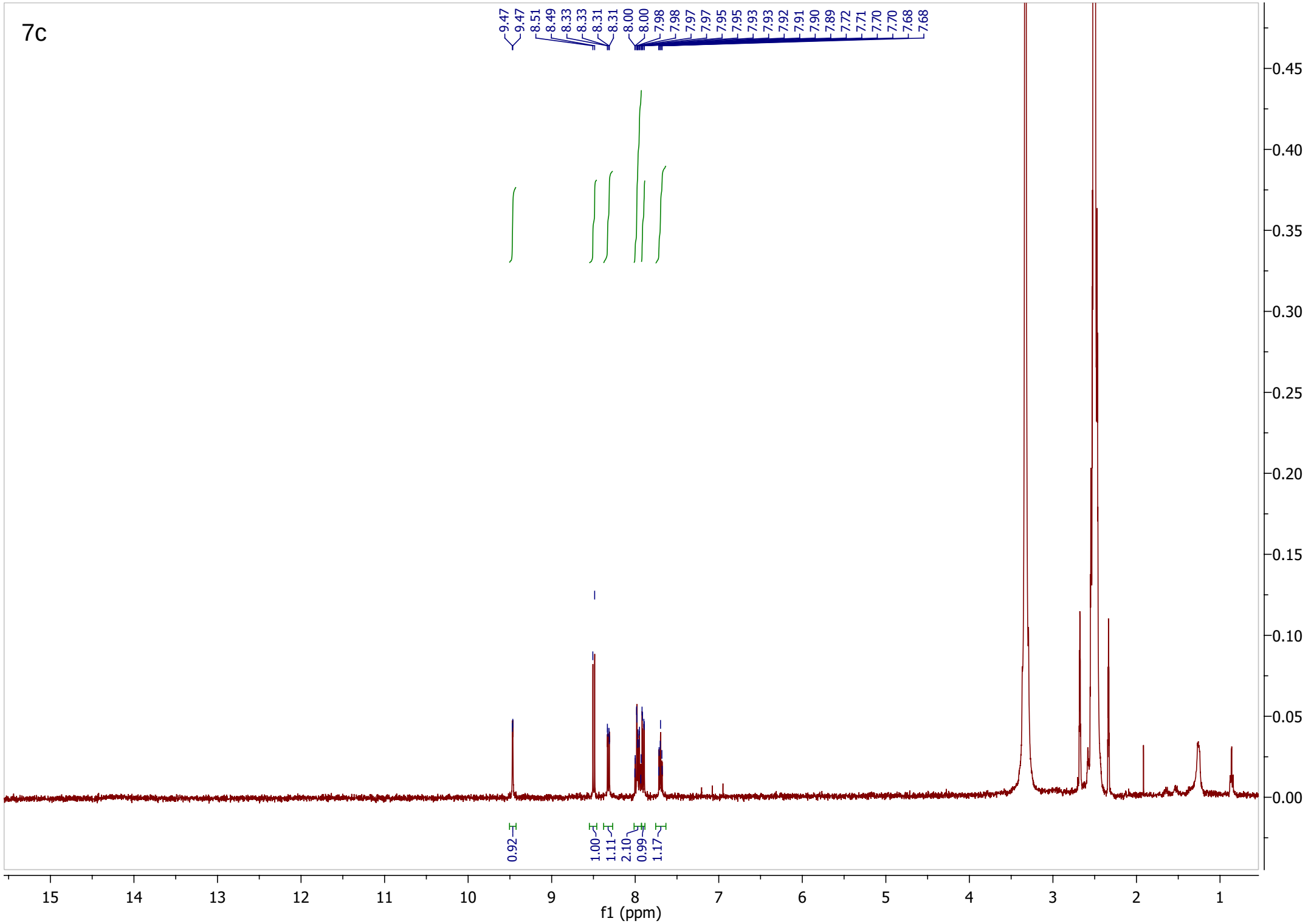
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
f1 (ppm)


4f
8.37
8.35
8.30
8.28
7.93
7.92
7.75
7.74
7.73
7.72
7.71
7.70
7.69
7.42
7.42
7.40
7.39
7.39
7.39
3.86
1.00
1.00
2.00
1.00
2.00
3.00
f1 (ppm)


4f
182.56
158.19
157.49
146.63
145.58
140.13
135.17
130.09
130.02
127.00
123.95
123.61
118.44
108.68
99.67
56.23
0.0034
0.0032
0.0030
0.0028
0.0026
0.0024
0.0022
0.0020
0.0018
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
-0.0002
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
f1 (ppm)


7a
9.28
9.26
8.58
8.56
8.34
8.33
8.32
8.31
8.00
7.98
7.96
7.96
7.94
7.92
7.92
7.73
7.71
7.69
7.67
7.51
7.50
7.48
0.82
0.91
0.95
1.97
2.00
1.00
0.30
0.25
0.20
0.15
0.10
0.05
0.00
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
f1 (ppm)


7b
9.30
9.30
8.55
8.52
8.32
8.31
8.30
8.29
7.98
7.97
7.96
7.95
7.95
7.94
7.93
7.92
7.78
7.77
7.76
7.75
7.70
7.68
7.66
0.95
1.00
1.02
2.08
0.98
1.09
f1 (ppm)


7c
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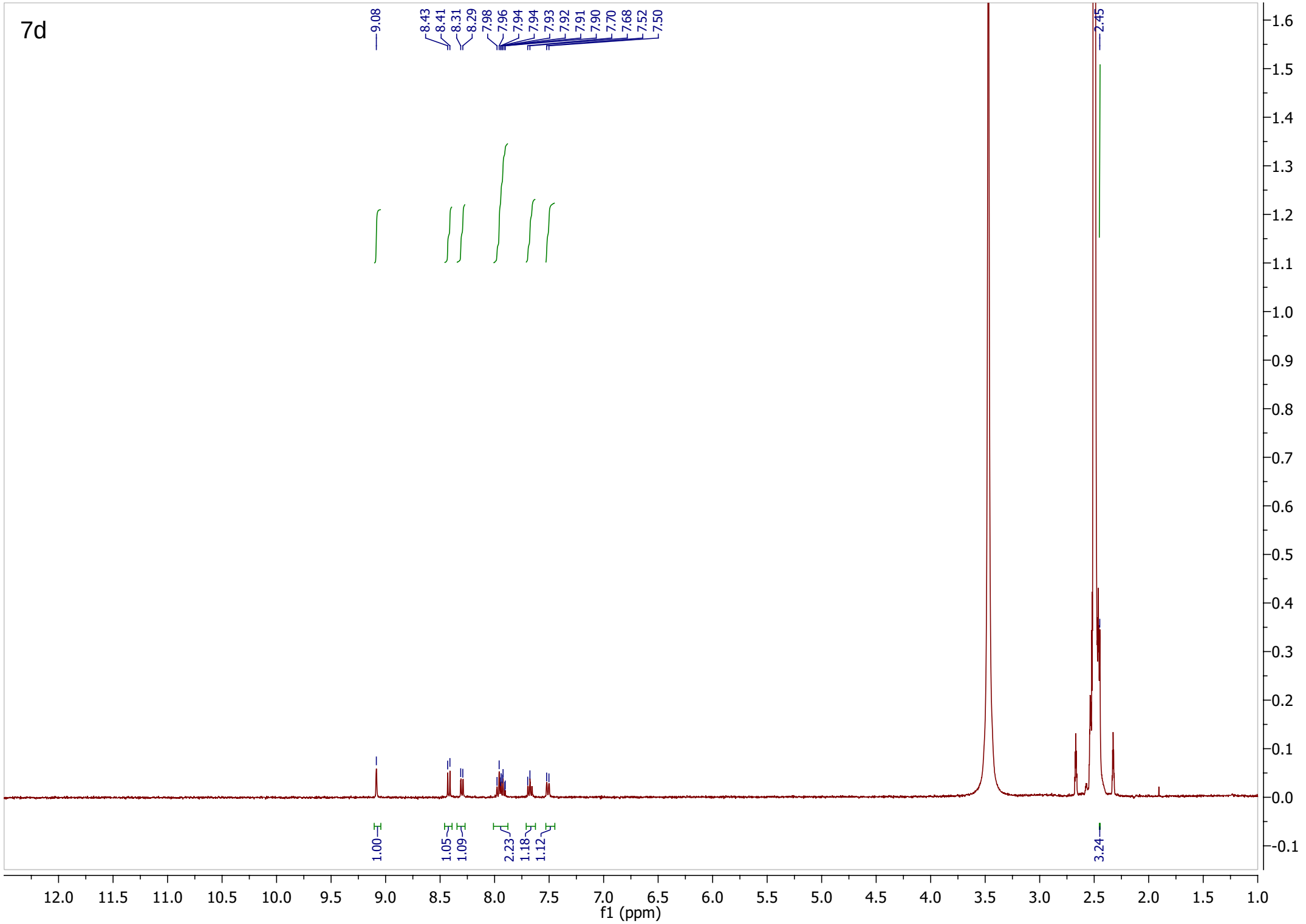
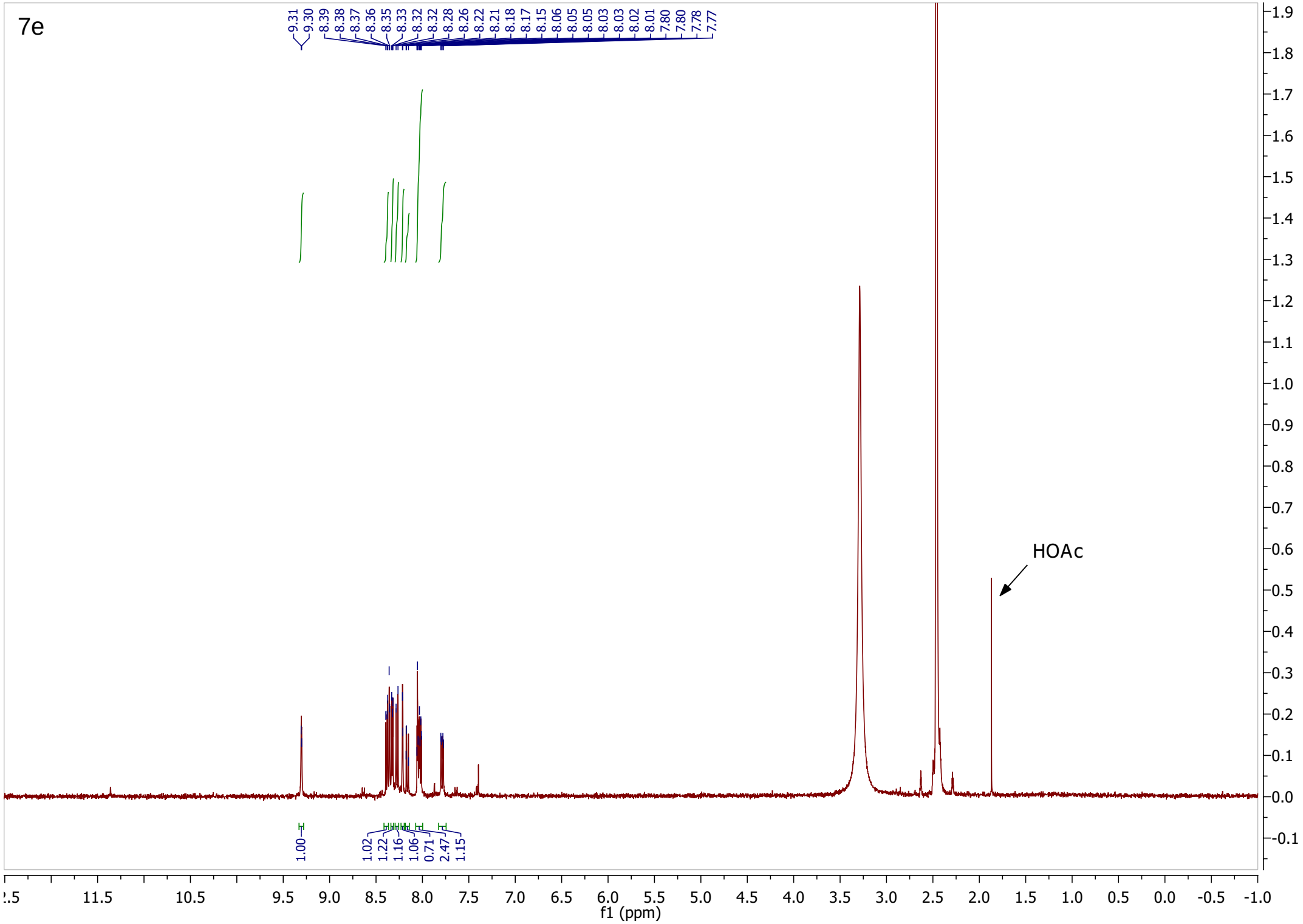
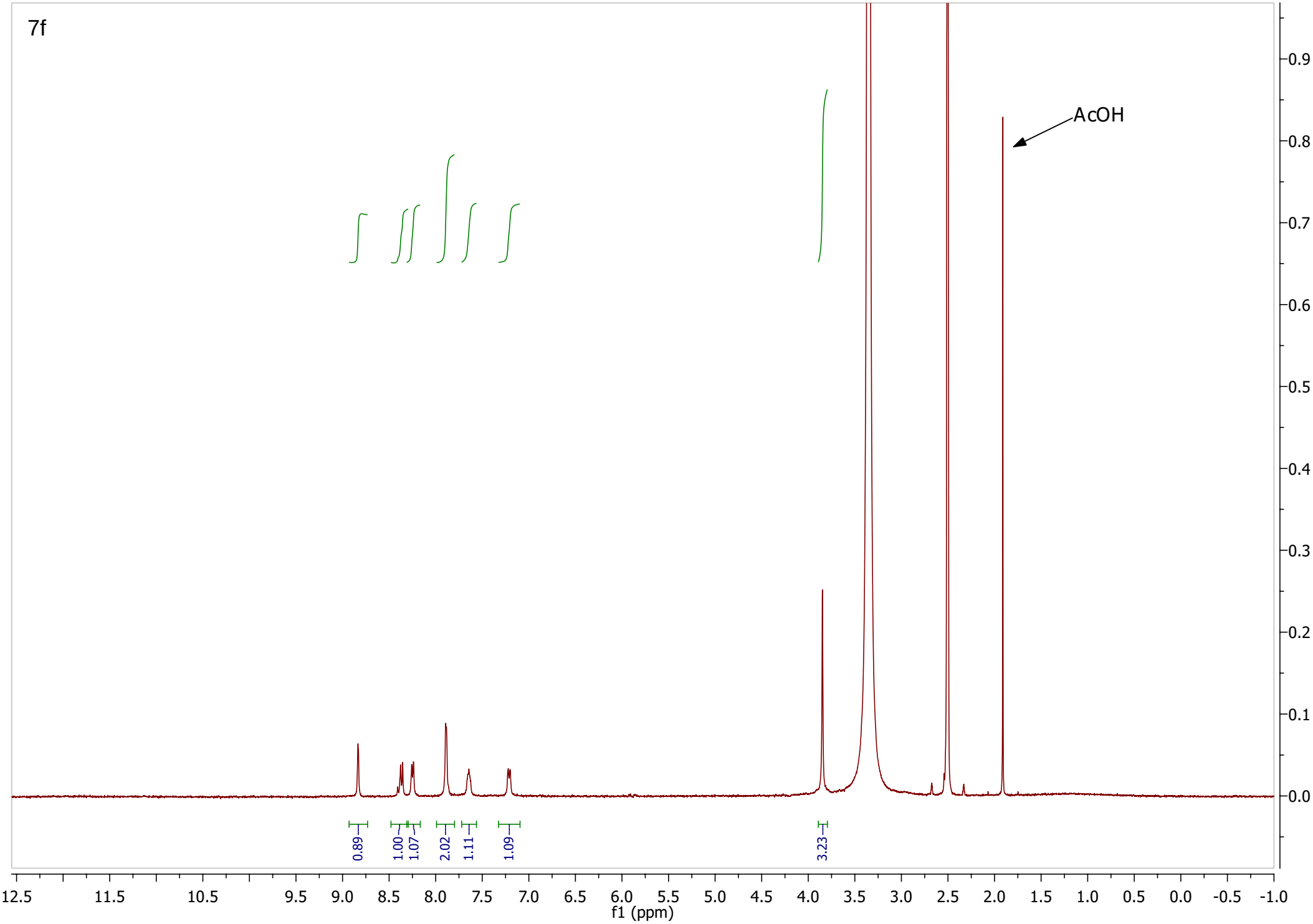
8.51
8.49
8.33
8.33
8.31
8.31
8.00
8.00
7.98
7.98
7.97
7.97
7.95
7.95
7.93
7.93
7.92
7.91
7.90
7.89
7.72
7.71
7.70
7.70
7.68
7.68
0.92
1.00
1.11
2.10
0.99
1.17
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
f1 (ppm)


7d
9.08
8.43
8.41
8.31
8.29
7.98
7.96
7.94
7.94
7.93
7.92
7.91
7.90
7.70
7.68
7.52
7.50
2.45
1.00
1.05
1.09
2.23
1.18
1.12
3.24
f1 (ppm)


7e
9.31
9.30
8.39
8.38
8.37
8.36
8.35
8.33
8.32
8.32
8.28
8.26
8.22
8.21
8.18
8.17
8.15
8.06
8.05
8.05
8.03
8.03
8.02
8.01
7.80
7.78
7.77
HOAc
1.00
1.02
1.22
1.16
1.06
0.71
2.47
1.15
f1 (ppm)


7f
AcOH
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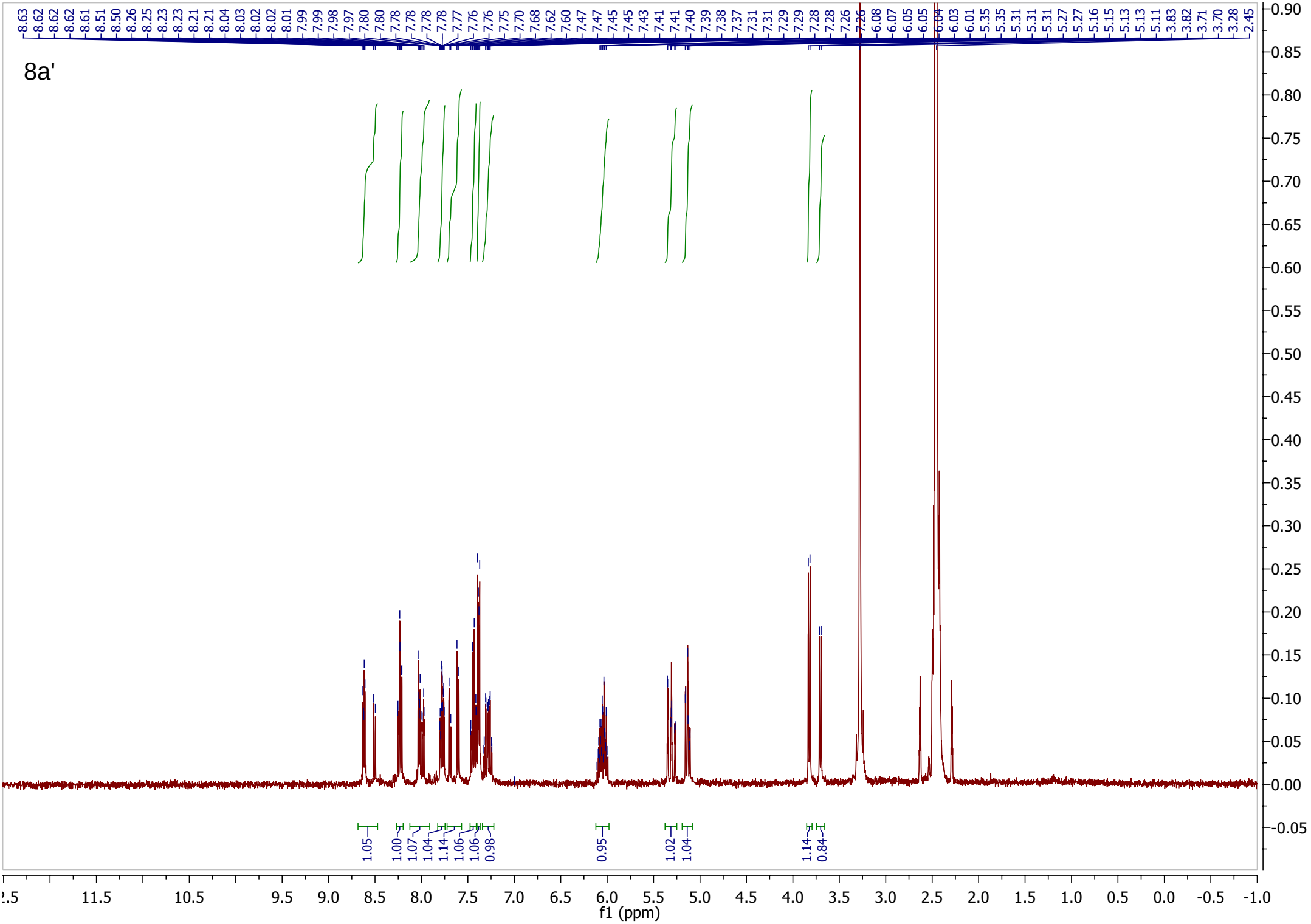
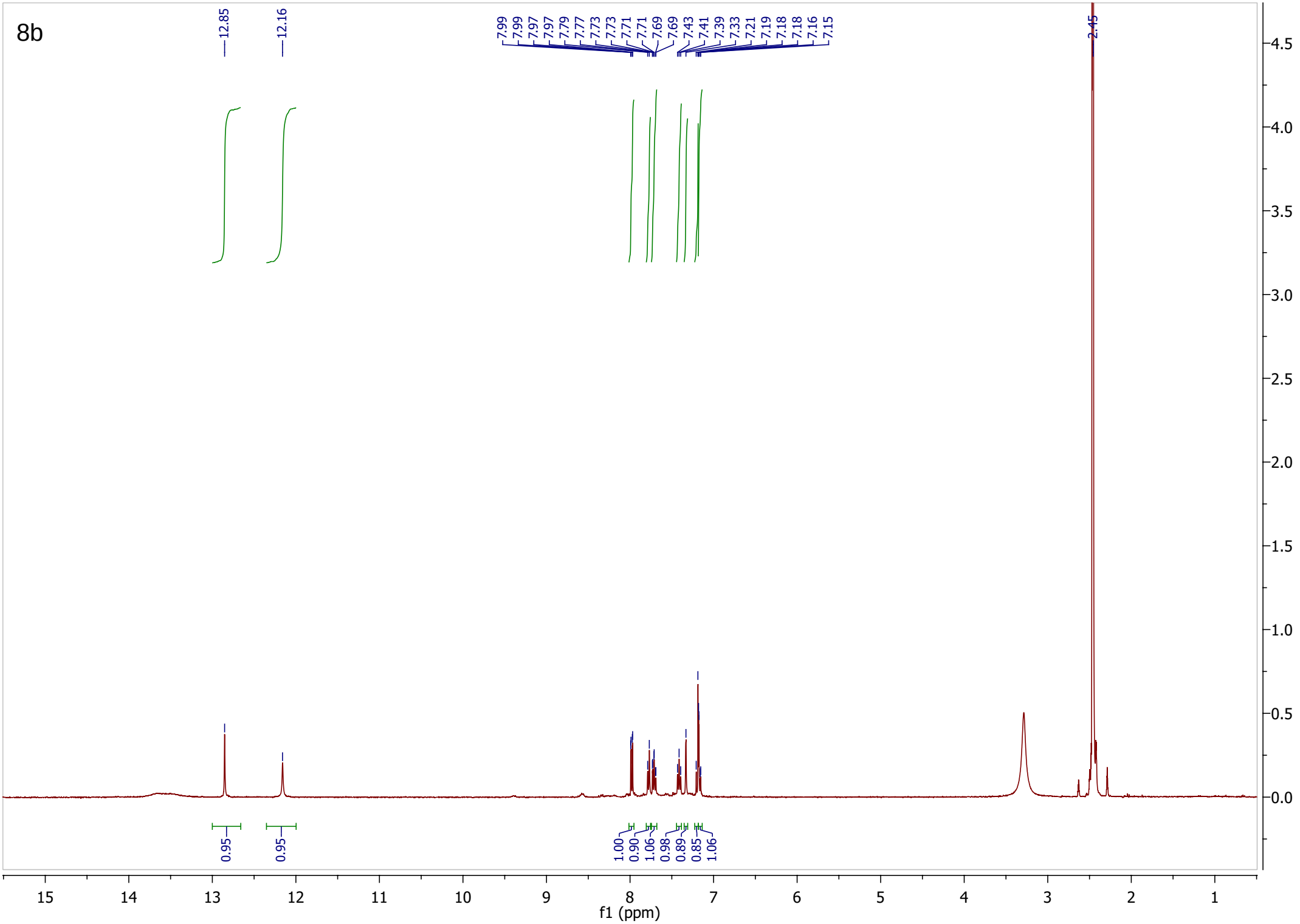
1.07
2.02
1.11
1.09
3.23
f1 (ppm)


8a'
f1 (ppm)


8b
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12.16
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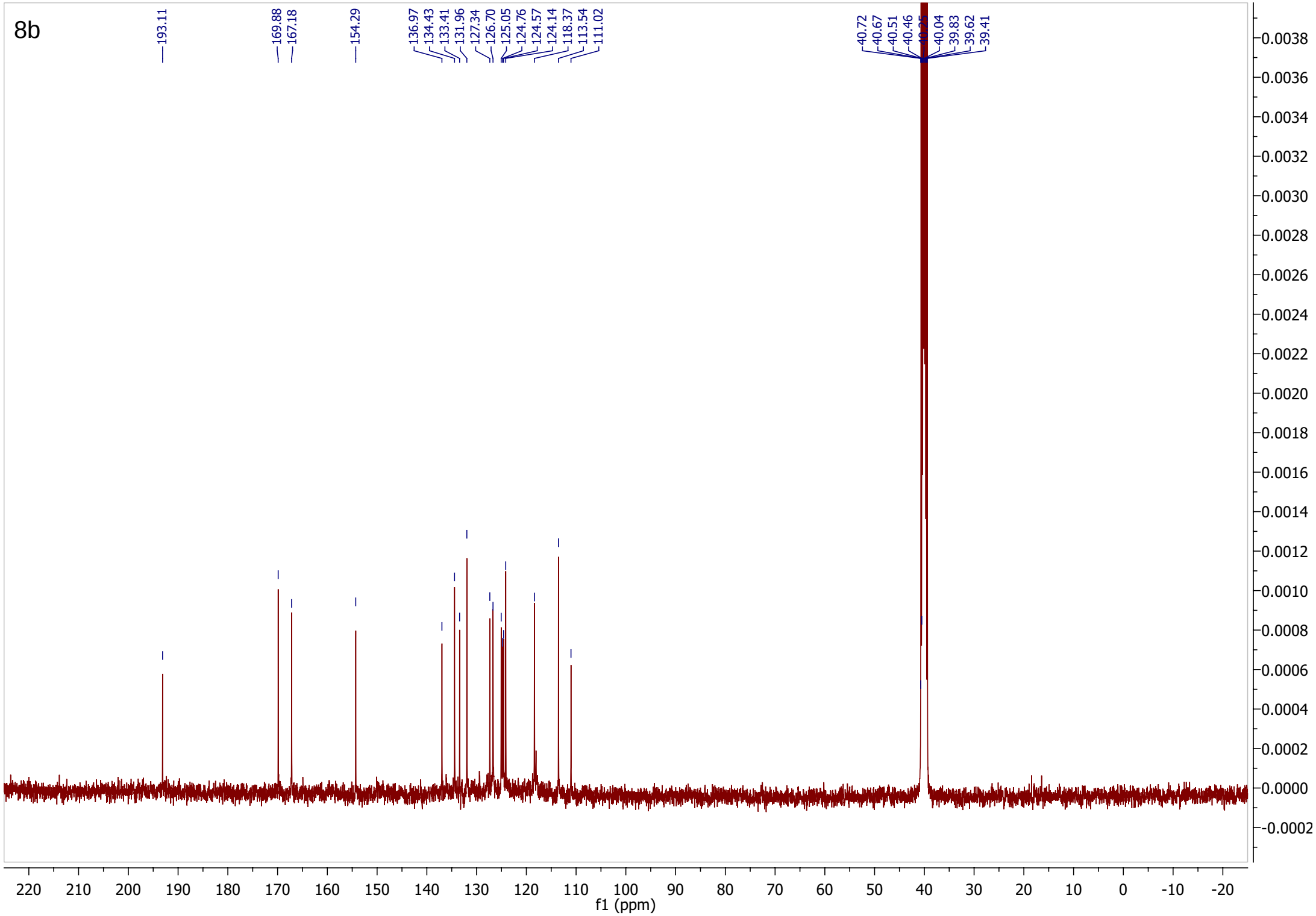
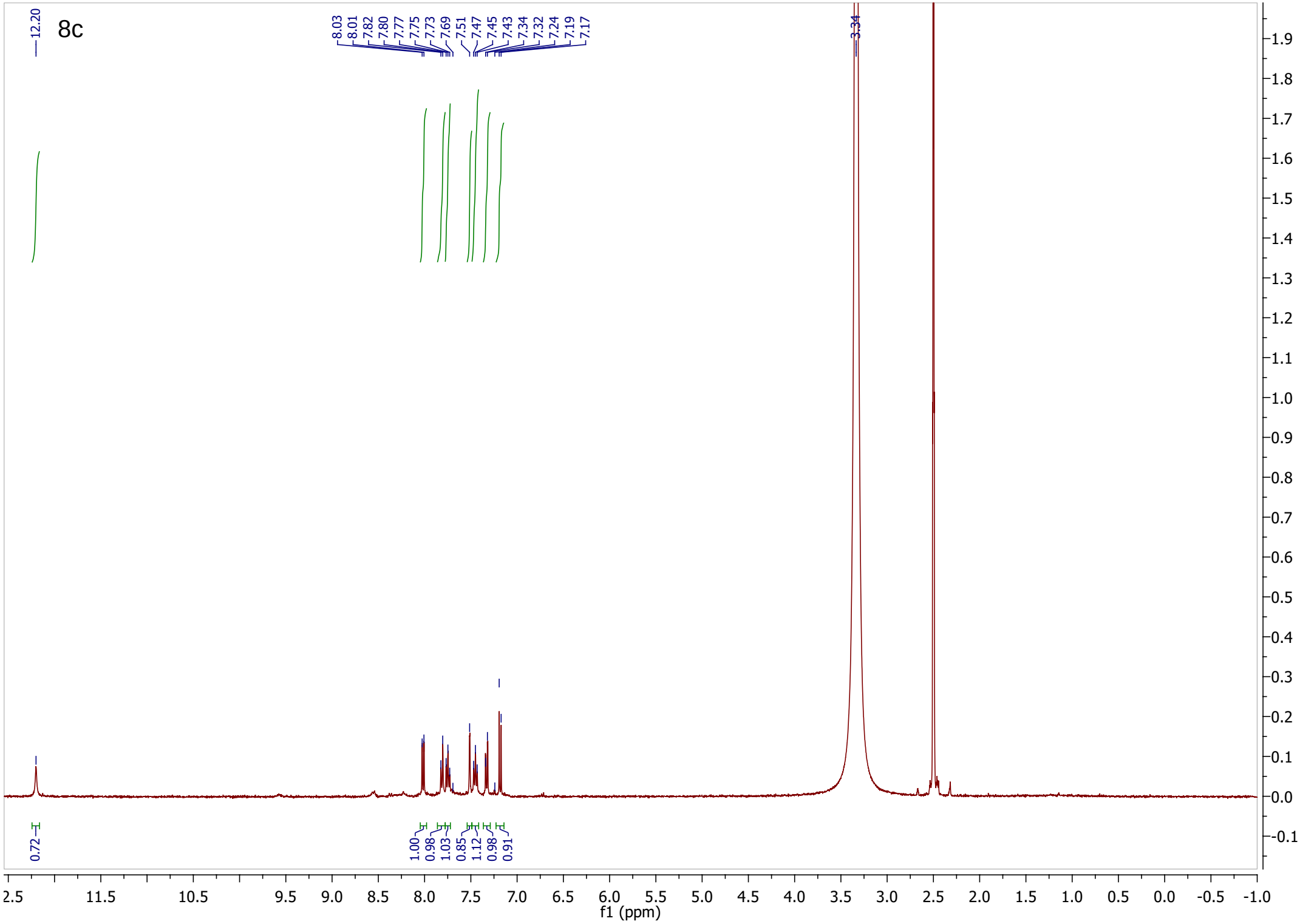
7.99
7.97
7.97
7.79
7.77
7.73
7.73
7.71
7.71
7.69
7.69
7.43
7.41
7.39
7.33
7.21
7.19
7.18
7.18
7.16
7.15
2.45
0.95
0.95
1.00
0.90
1.06
0.98
0.89
0.85
1.06
f1 (ppm)


8b
193.11
169.88
167.18
154.29
136.97
134.43
133.41
131.96
127.34
126.70
125.05
124.76
124.57
124.14
118.37
113.54
111.02
40.72
40.67
40.51
40.46
40.25
40.04
39.83
39.62
39.41
0.0038
0.0036
0.0034
0.0032
0.0030
0.0028
0.0026
0.0024
0.0022
0.0020
0.0018
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
-0.0002
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
f1 (ppm)


8c
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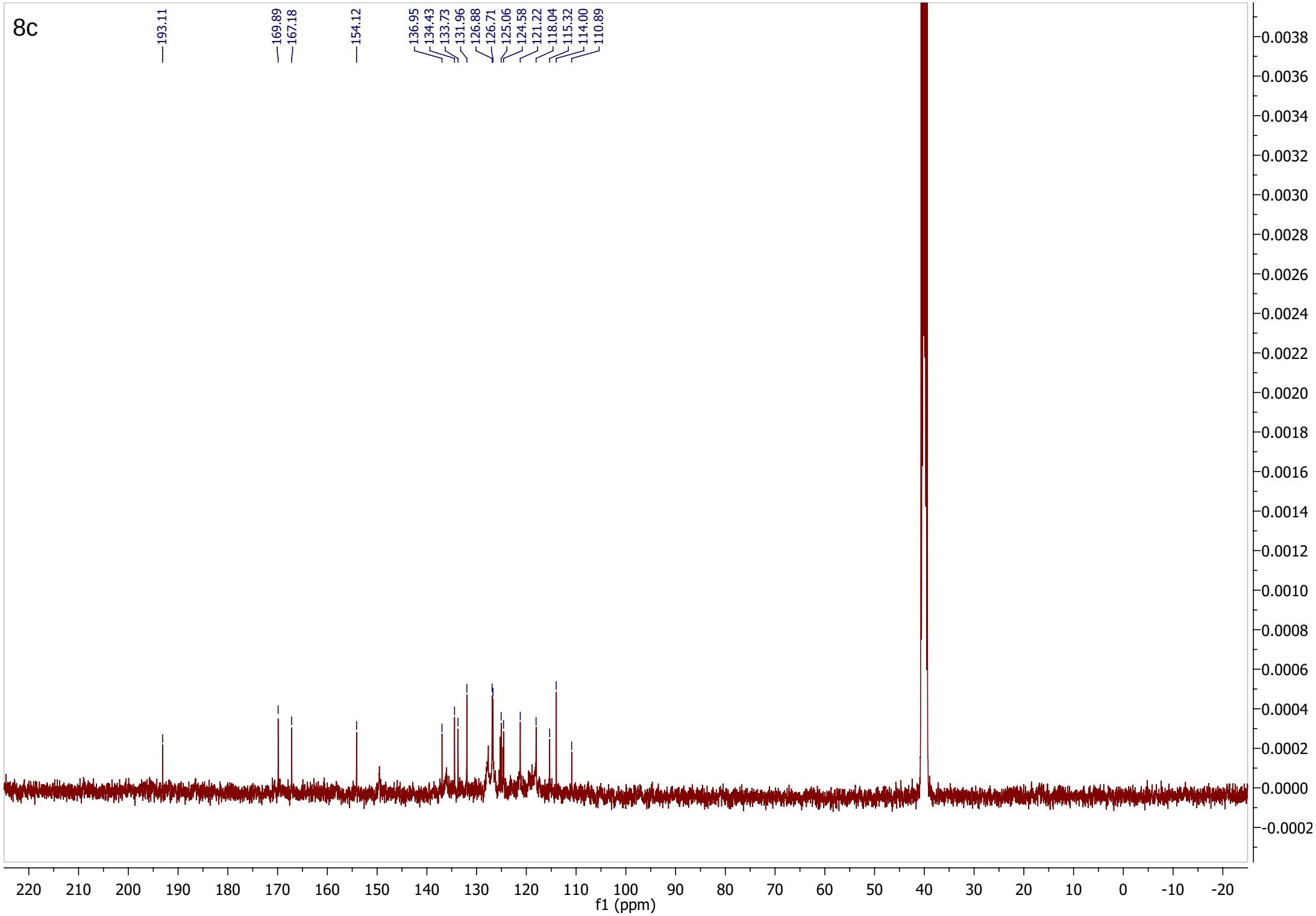
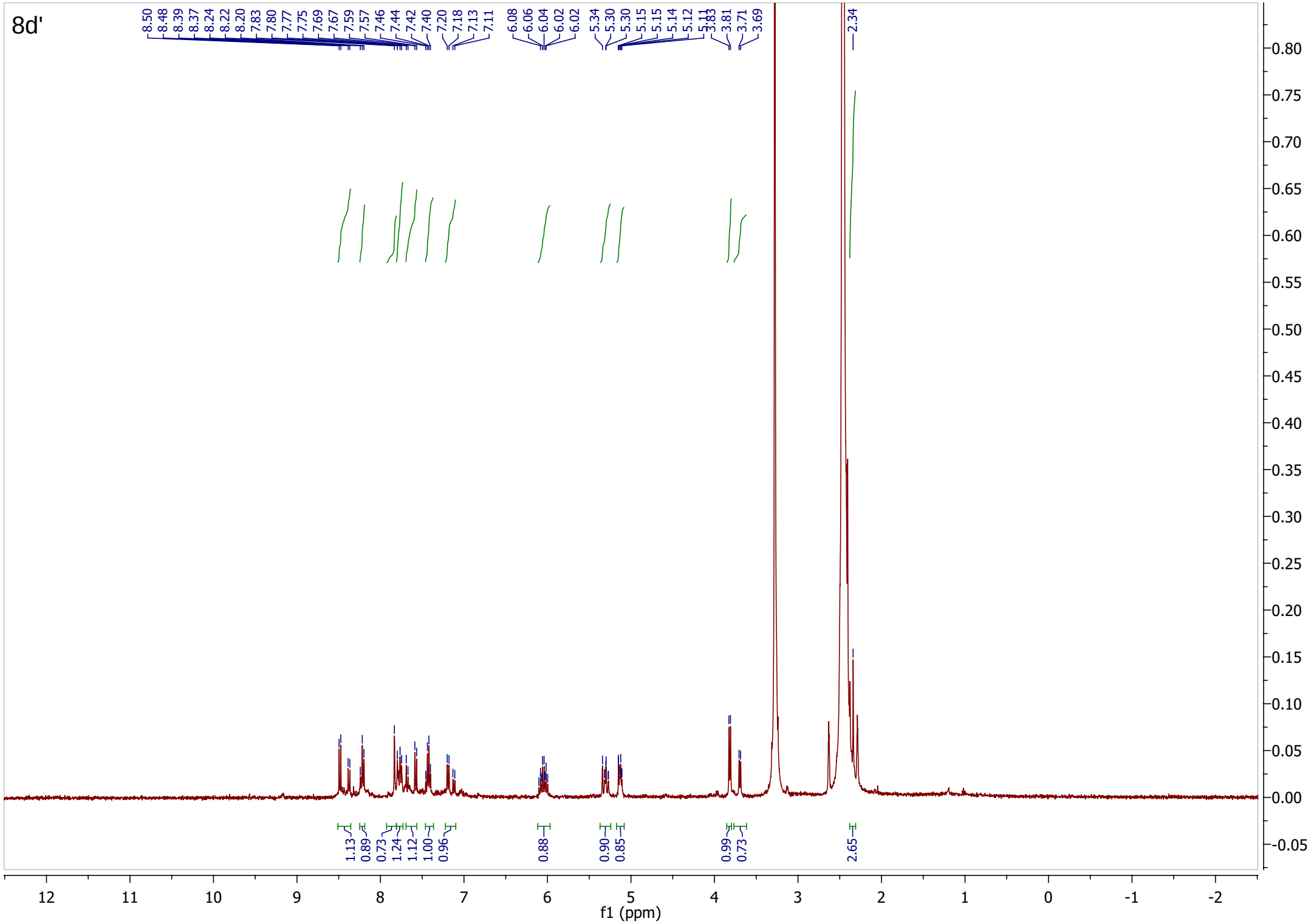
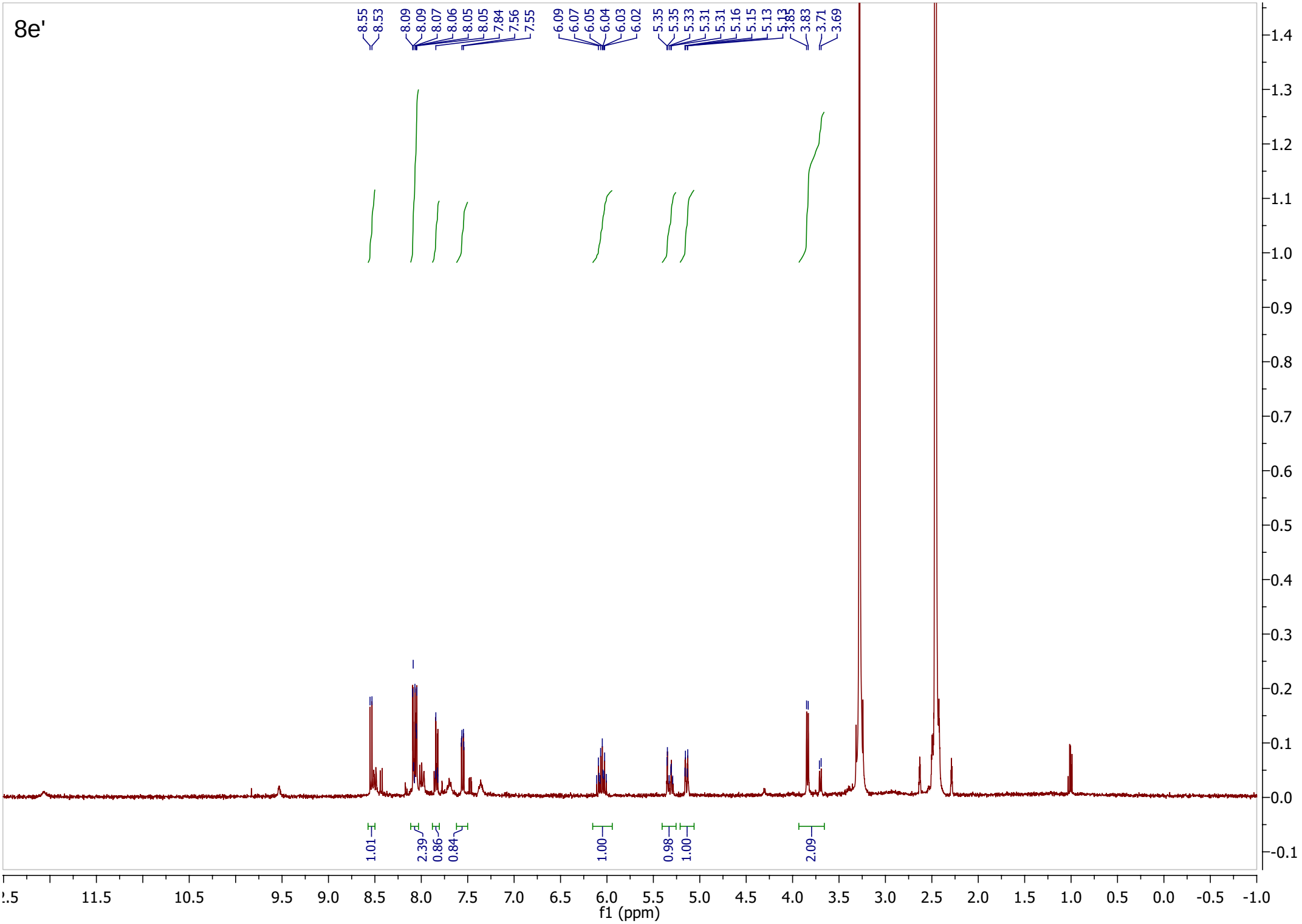
8.01
7.82
7.80
7.77
7.75
7.73
7.69
7.51
7.47
7.45
7.43
7.34
7.32
7.24
7.19
7.17
3.34
0.72
1.00
0.98
1.03
0.85
1.12
0.98
0.91
f1 (ppm)


8c
193.11
169.89
167.18
154.12
136.95
134.43
133.73
131.96
126.88
126.71
125.06
124.58
121.22
118.04
115.32
114.00
110.89
0.0038
0.0036
0.0034
0.0032
0.0030
0.0028
0.0026
0.0024
0.0022
0.0020
0.0018
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
-0.0002
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
f1 (ppm)


8d'
8.50
8.48
8.39
8.37
8.24
8.22
8.20
7.83
7.80
7.77
7.75
7.69
7.67
7.59
7.57
7.46
7.44
7.42
7.40
7.20
7.18
7.13
7.11
6.08
6.06
6.04
6.02
6.02
5.34
5.30
5.30
5.15
5.15
5.14
5.12
5.11
3.83
3.81
3.71
3.69
2.34
1.13
0.89
0.73
1.24
1.12
1.00
0.96
0.88
0.90
0.85
0.99
0.73
2.65
f1 (ppm)


8e'
8.55
8.53
8.09
8.09
8.07
8.06
8.05
8.05
7.84
7.56
7.55
6.09
6.07
6.05
6.04
6.03
6.02
5.35
5.35
5.33
5.31
5.31
5.16
5.15
5.13
3.85
3.83
3.71
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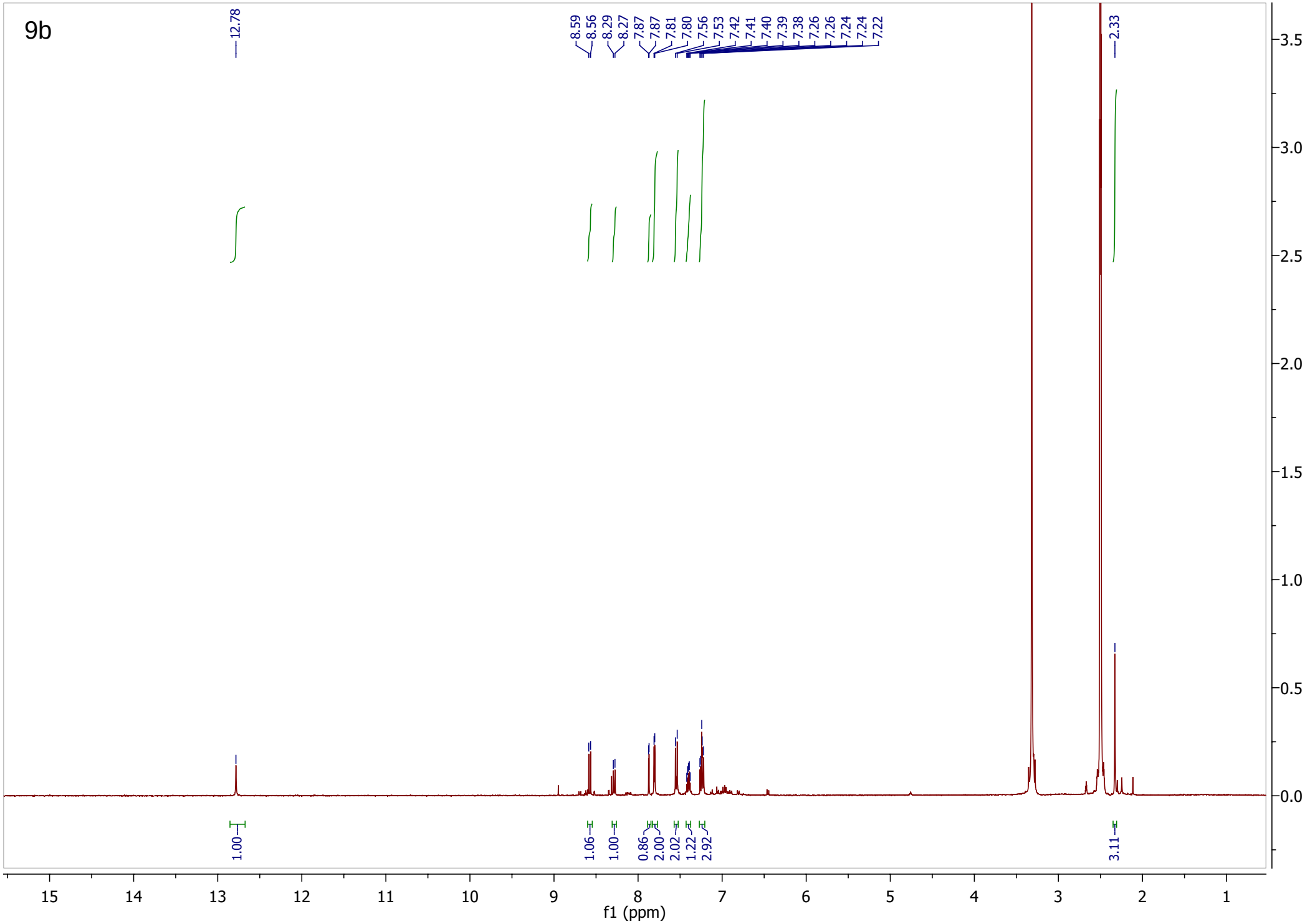
1.01
2.39
0.86
0.84
1.00
0.98
1.00
2.09
f1 (ppm)


9b
12.78
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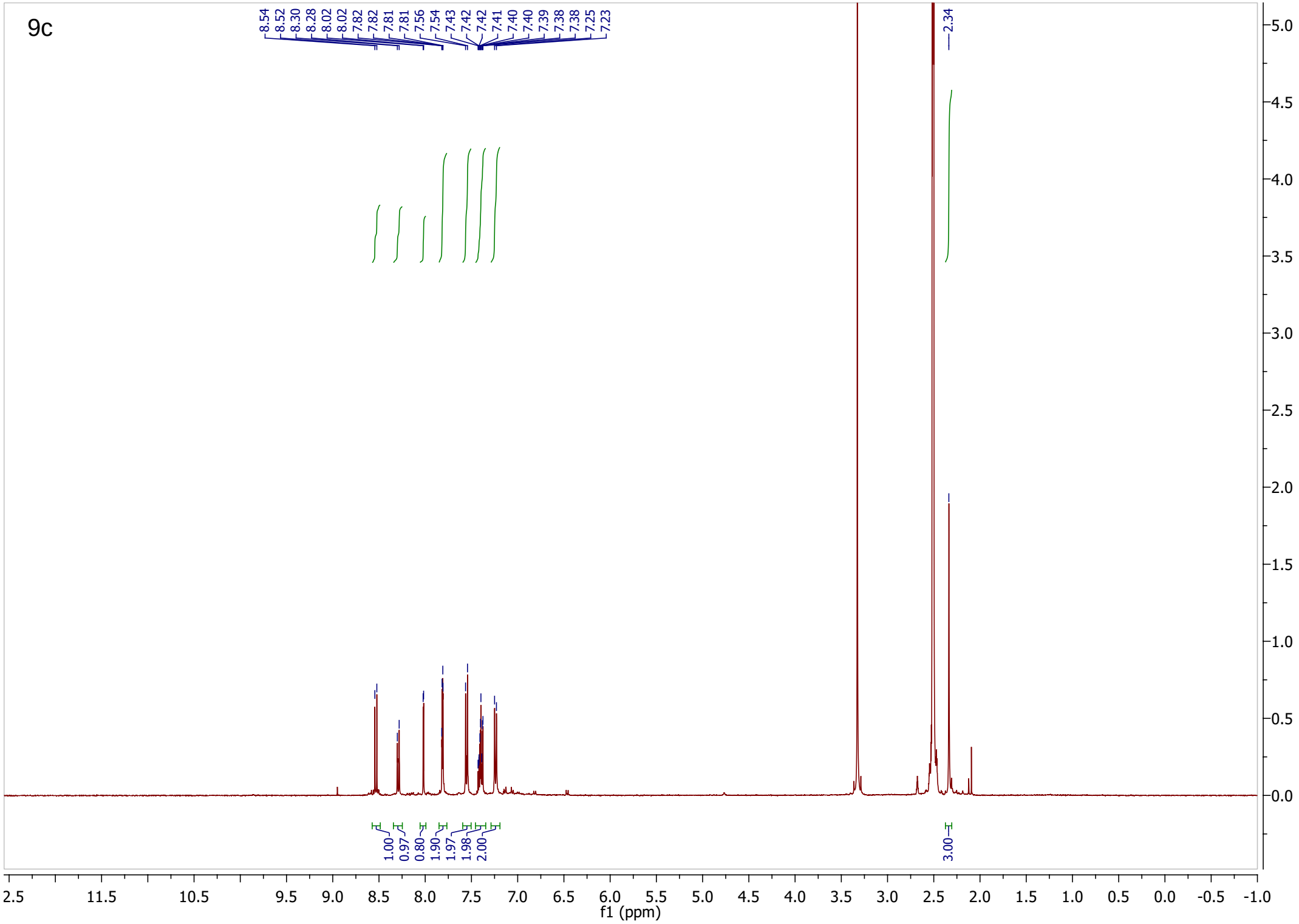
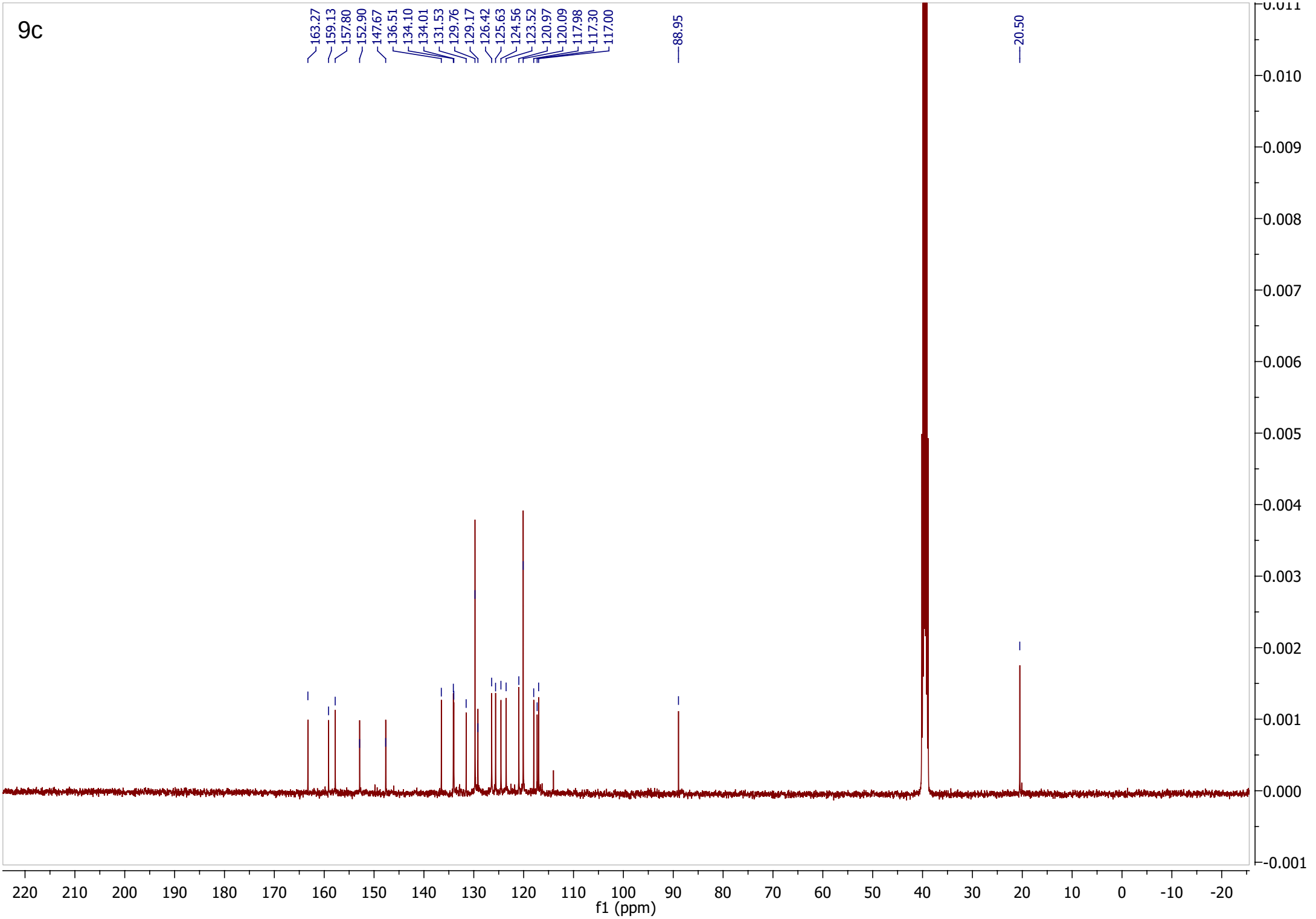
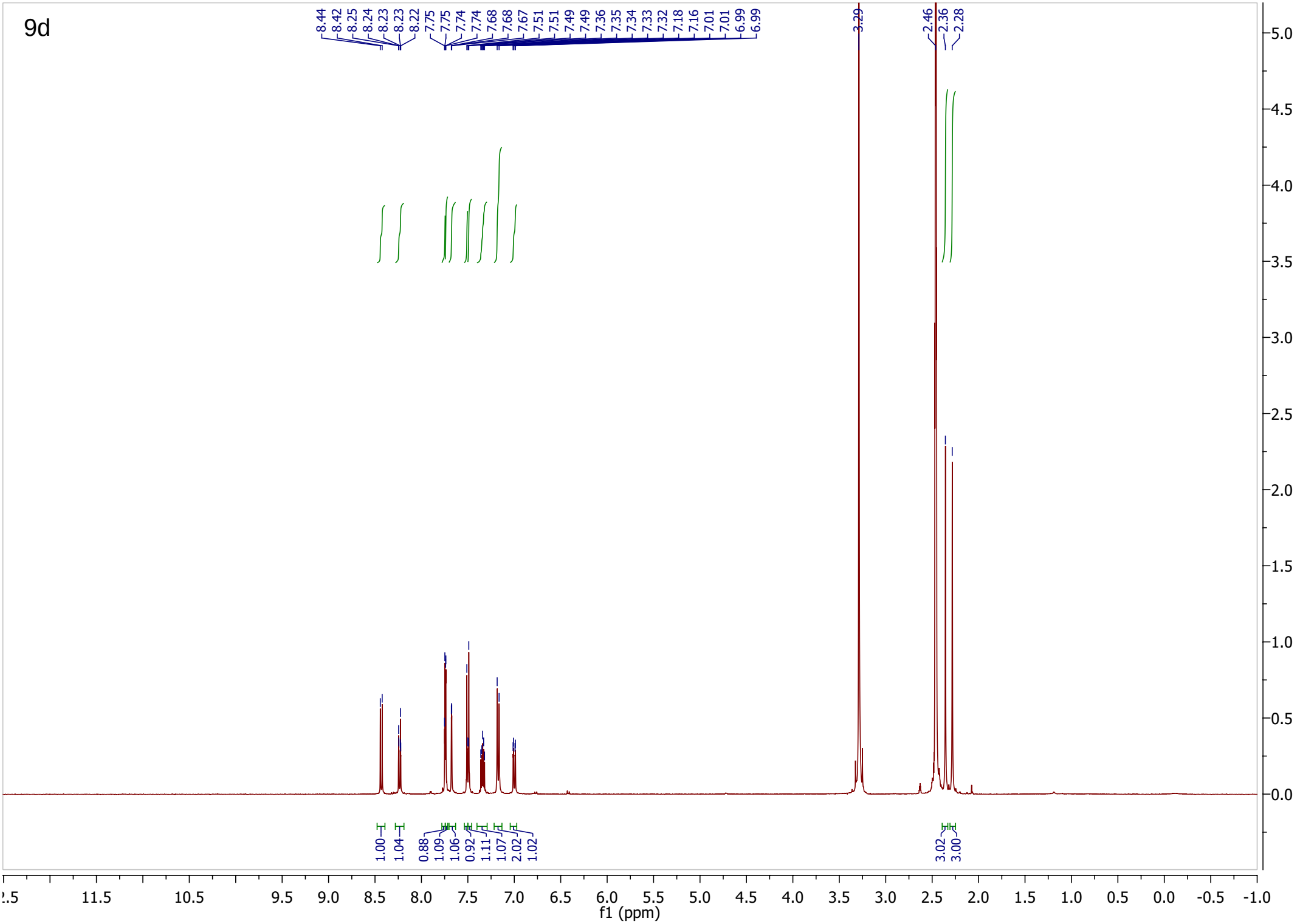
8.56
8.29
8.27
7.87
7.87
7.81
7.80
7.56
7.53
7.42
7.41
7.40
7.39
7.38
7.26
7.26
7.24
7.24
7.22
2.33
1.00
1.06
1.00
0.86
2.00
2.02
1.22
2.92
3.11
f1 (ppm)


9c
8.54
8.52
8.30
8.28
8.02
8.02
7.82
7.82
7.81
7.81
7.56
7.54
7.43
7.42
7.42
7.41
7.40
7.40
7.39
7.38
7.38
7.25
7.23
2.34
1.00
0.97
0.80
1.90
1.97
1.98
2.00
3.00
f1 (ppm)


9c
163.27
159.13
157.80
152.90
147.67
136.51
134.10
134.01
131.53
129.76
129.17
126.42
125.63
124.56
123.52
120.97
120.09
117.98
117.30
117.00
88.95
20.50
f1 (ppm)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8.23
8.22
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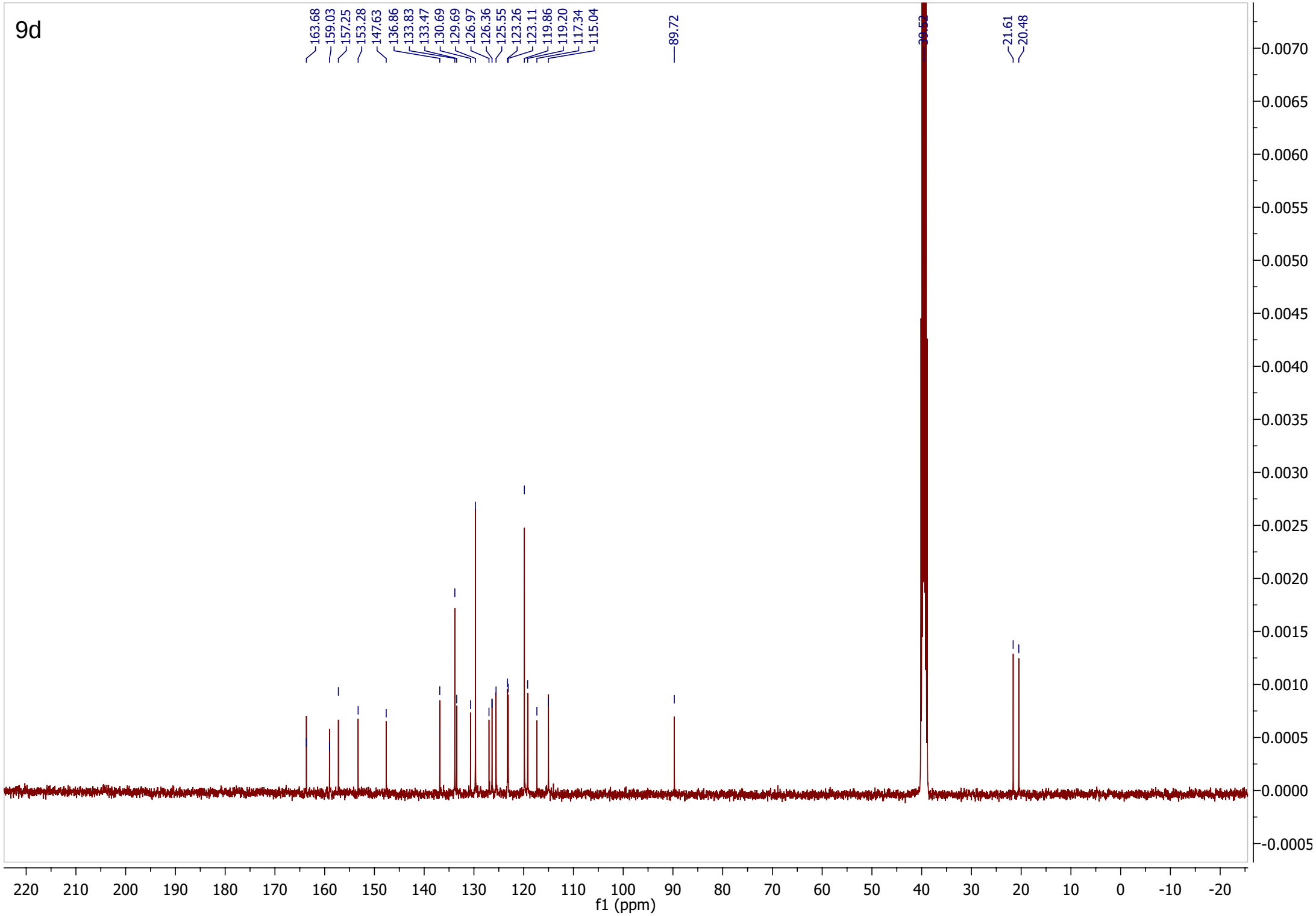
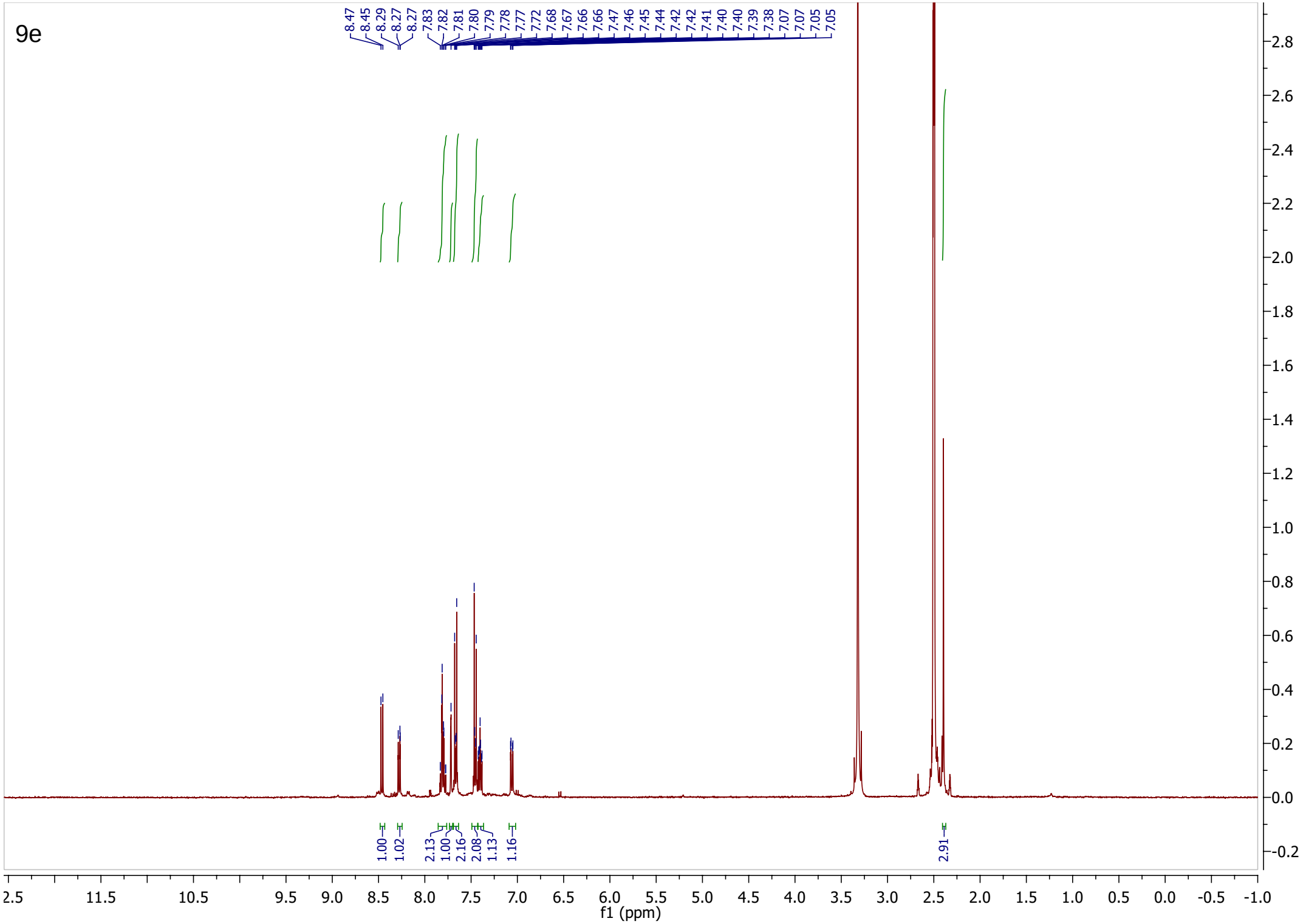
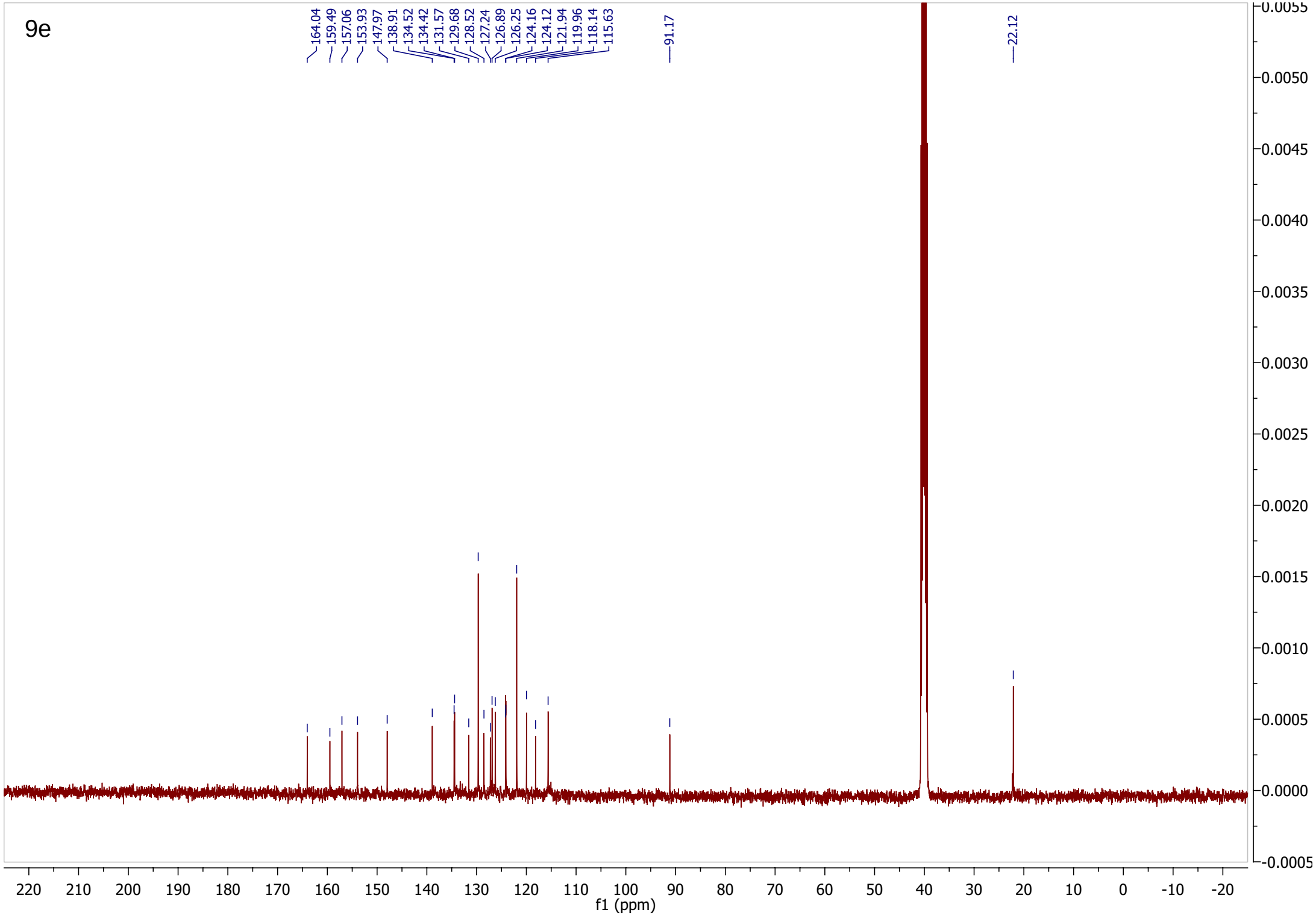
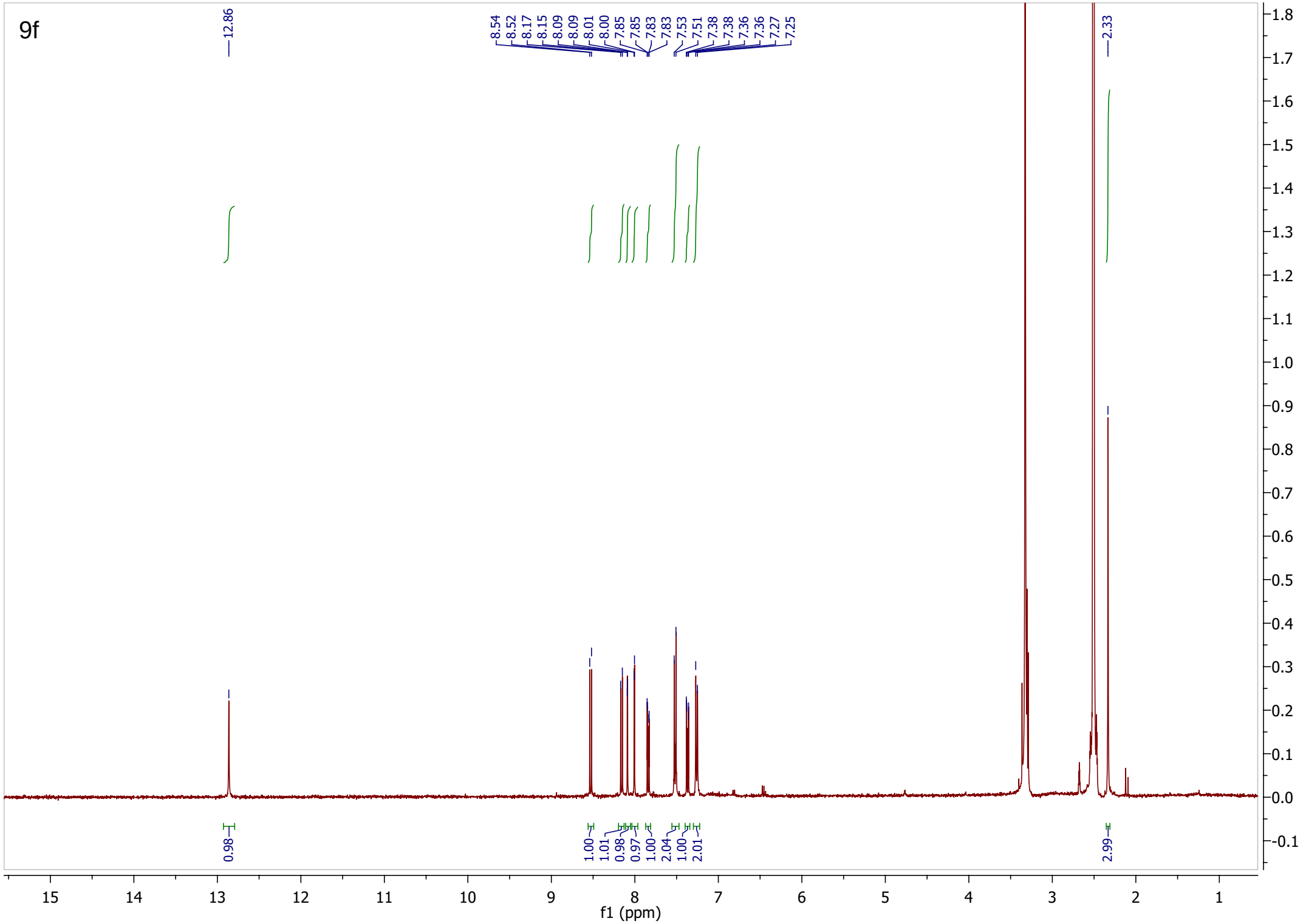
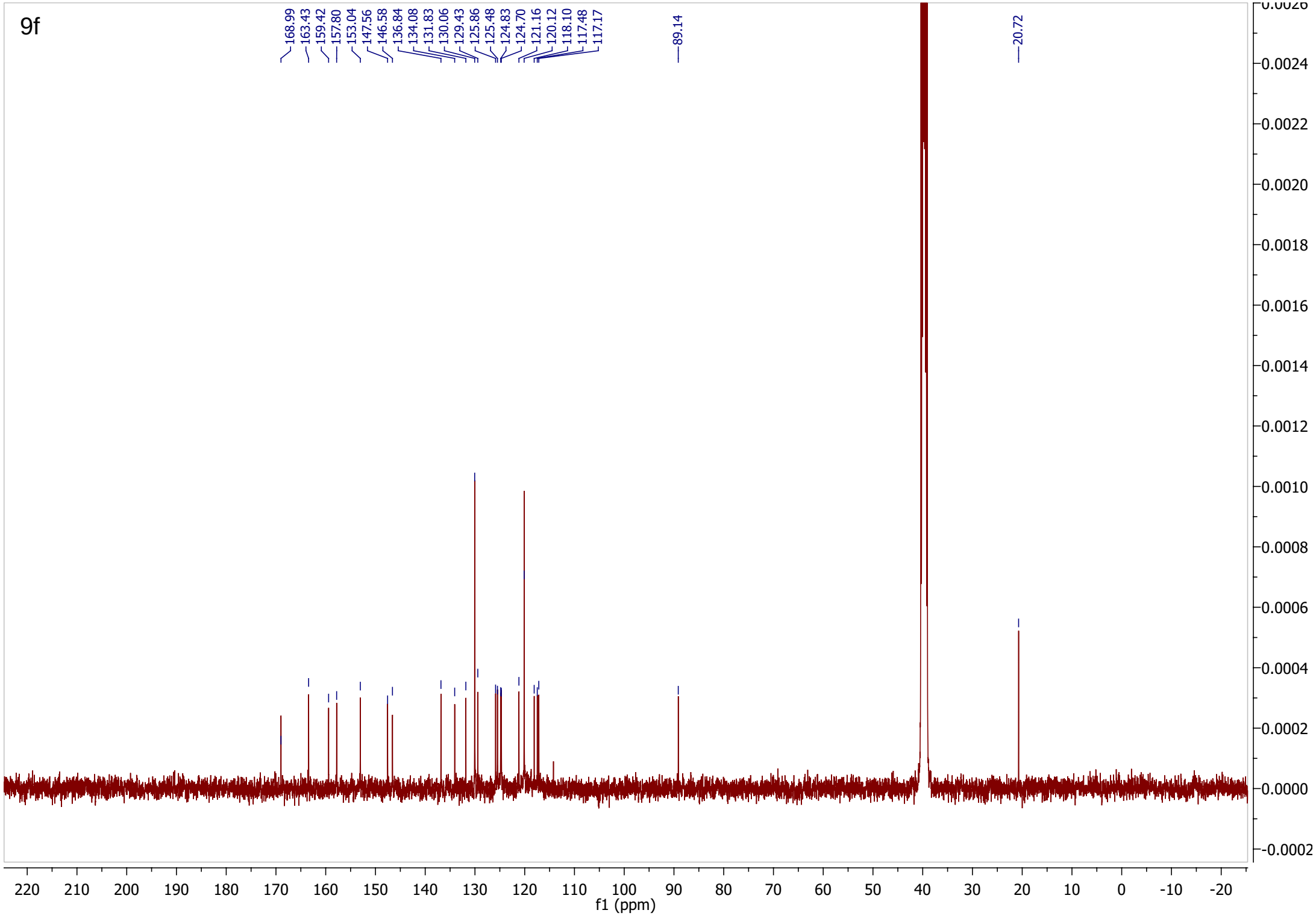
7.75
7.74
7.74
7.68
7.68
7.67
7.51
7.51
7.49
7.49
7.36
7.35
7.34
7.33
7.32
7.18
7.16
7.01
7.01
6.99
6.99
3.29
2.46
2.36
2.28
1.00
1.04
0.88
1.09
1.06
0.92
1.11
1.07
2.02
1.02
3.02
3.00
f1 (ppm)

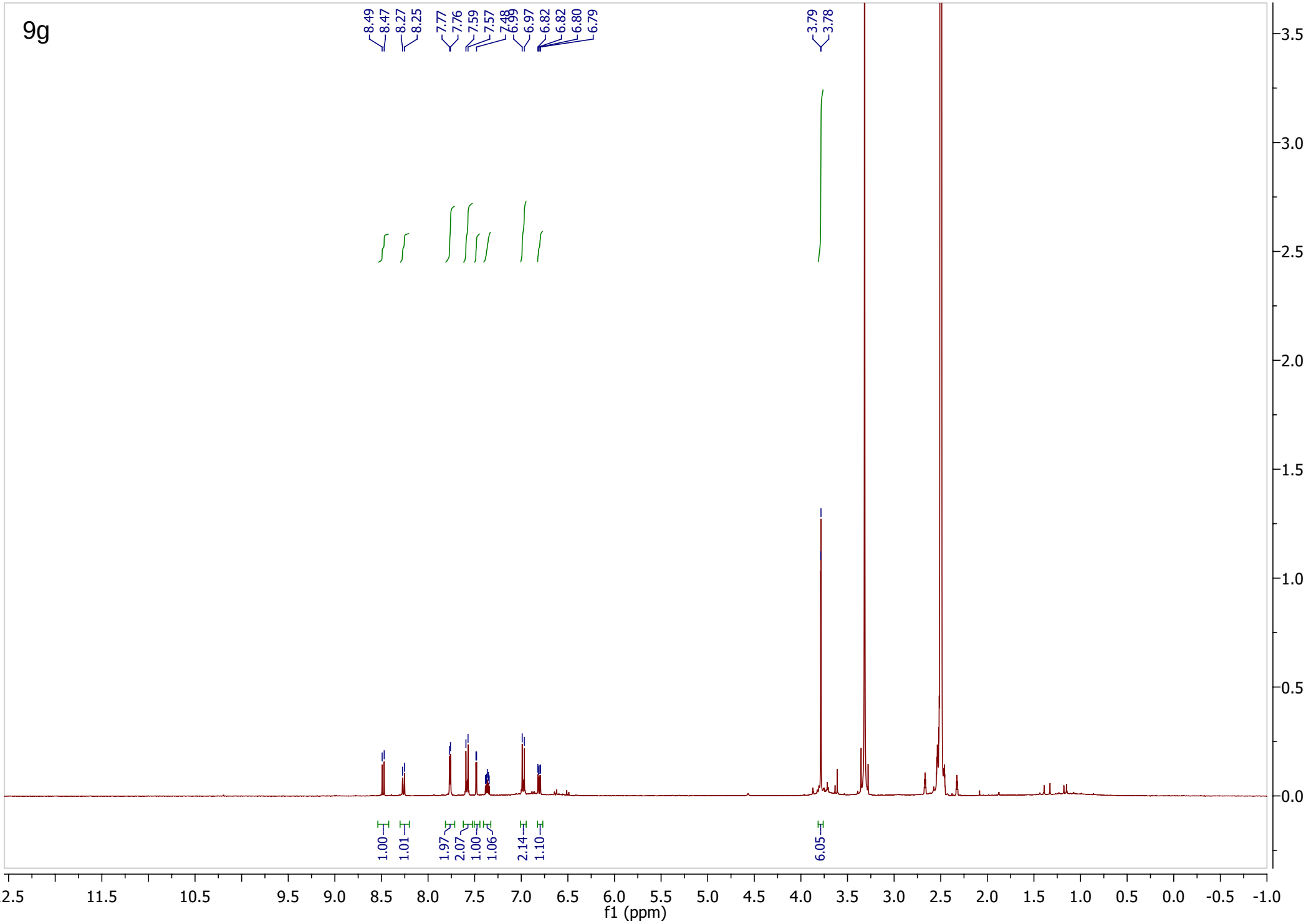

9d
163.68
159.03
157.25
153.28
147.63
136.86
133.83
133.47
130.69
129.69
126.97
126.36
125.55
123.26
123.11
119.86
119.20
117.34
115.04
89.72
39.52
21.61
20.48
0.0070
0.0065
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
-0.0005
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
f1 (ppm)

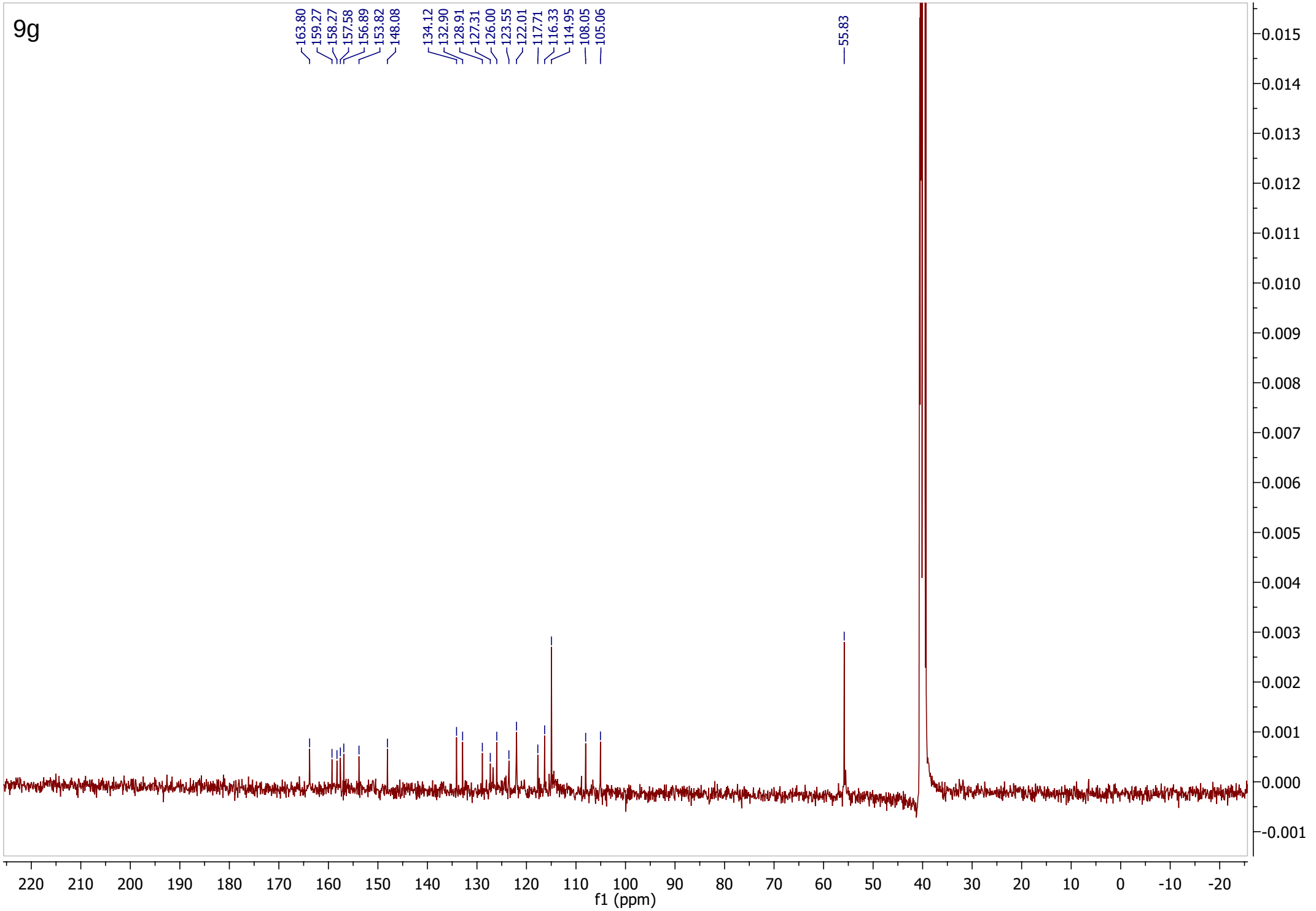

9e
8.47
8.45
8.29
8.27
8.27
7.83
7.82
7.81
7.80
7.79
7.78
7.77
7.72
7.68
7.67
7.66
7.66
7.47
7.46
7.45
7.44
7.42
7.42
7.41
7.40
7.40
7.39
7.38
7.07
7.07
7.05
7.05
1.00
1.02
2.13
1.00
2.16
2.08
1.13
1.16
2.91
f1 (ppm)

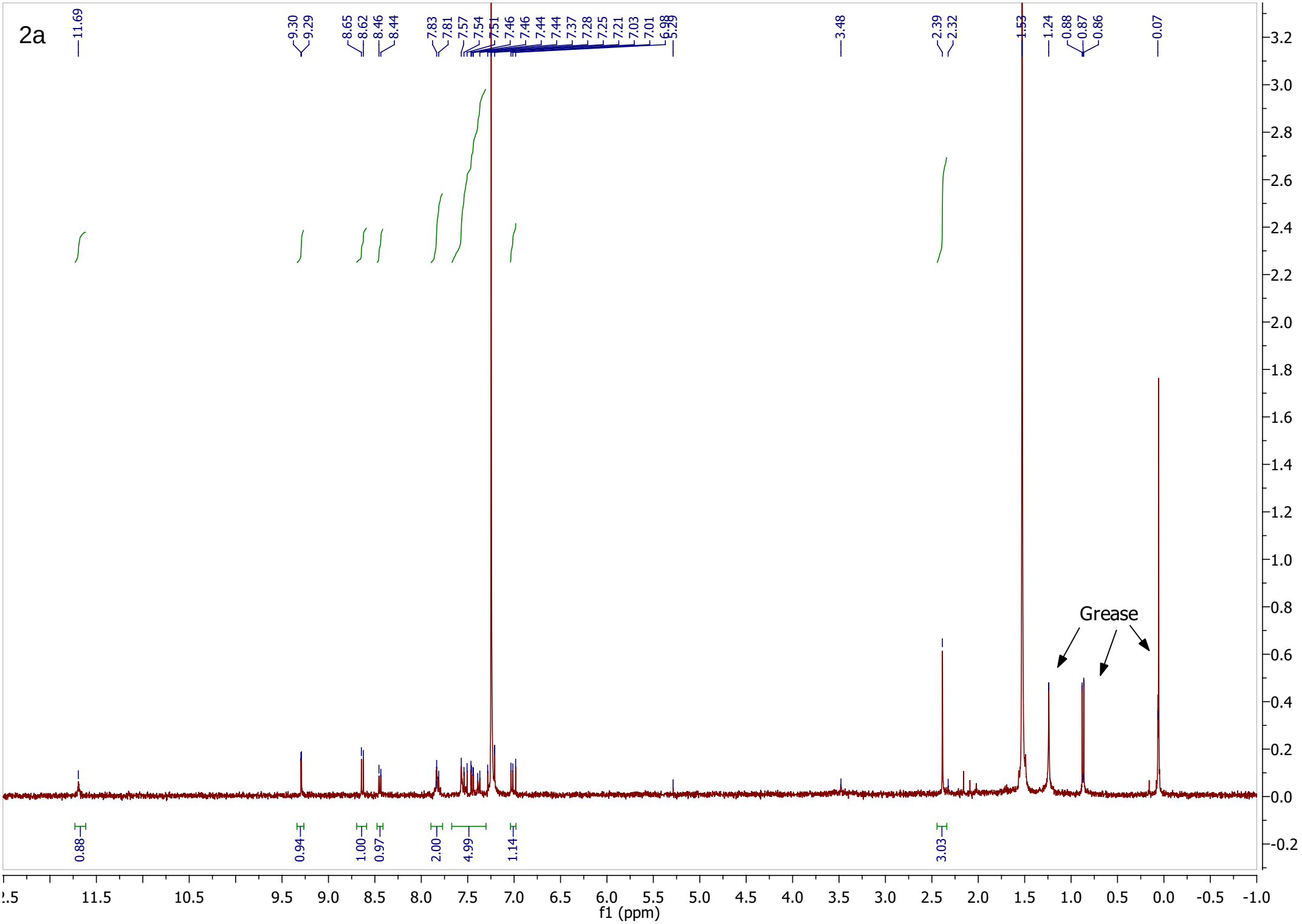

9e
164.04
159.49
157.06
153.93
147.97
138.91
134.52
134.42
131.57
129.68
128.52
127.24
126.89
126.25
124.16
124.12
121.94
119.96
118.14
115.63
91.17
22.12
f1 (ppm)

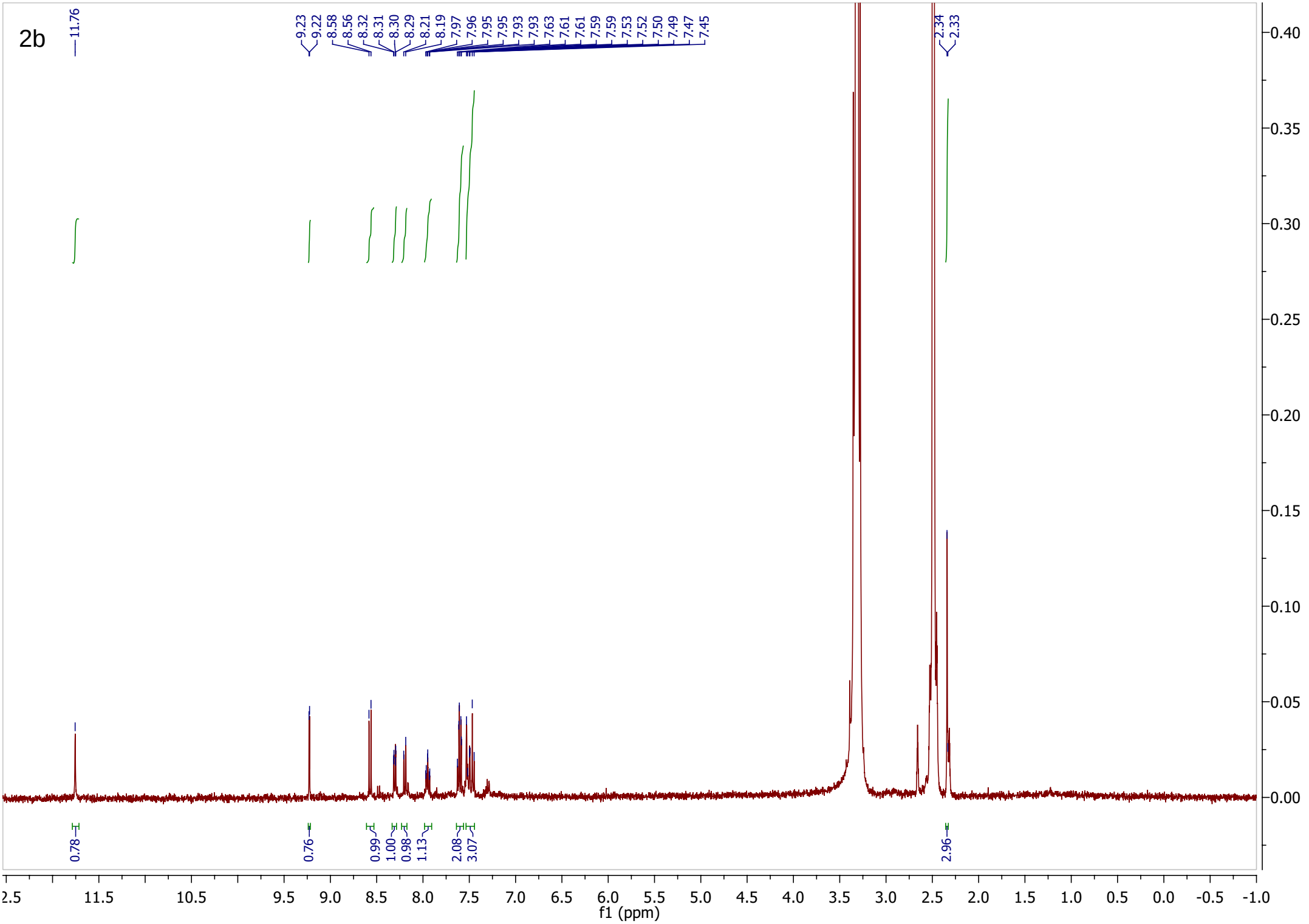

9f
12.86
8.54
8.52
8.17
8.15
8.09
8.09
8.01
8.00
7.85
7.85
7.83
7.83
7.53
7.51
7.38
7.38
7.36
7.36
7.27
7.25
2.33
0.98
1.00
1.01
0.98
0.97
1.00
2.04
1.00
2.01
2.99
f1 (ppm)

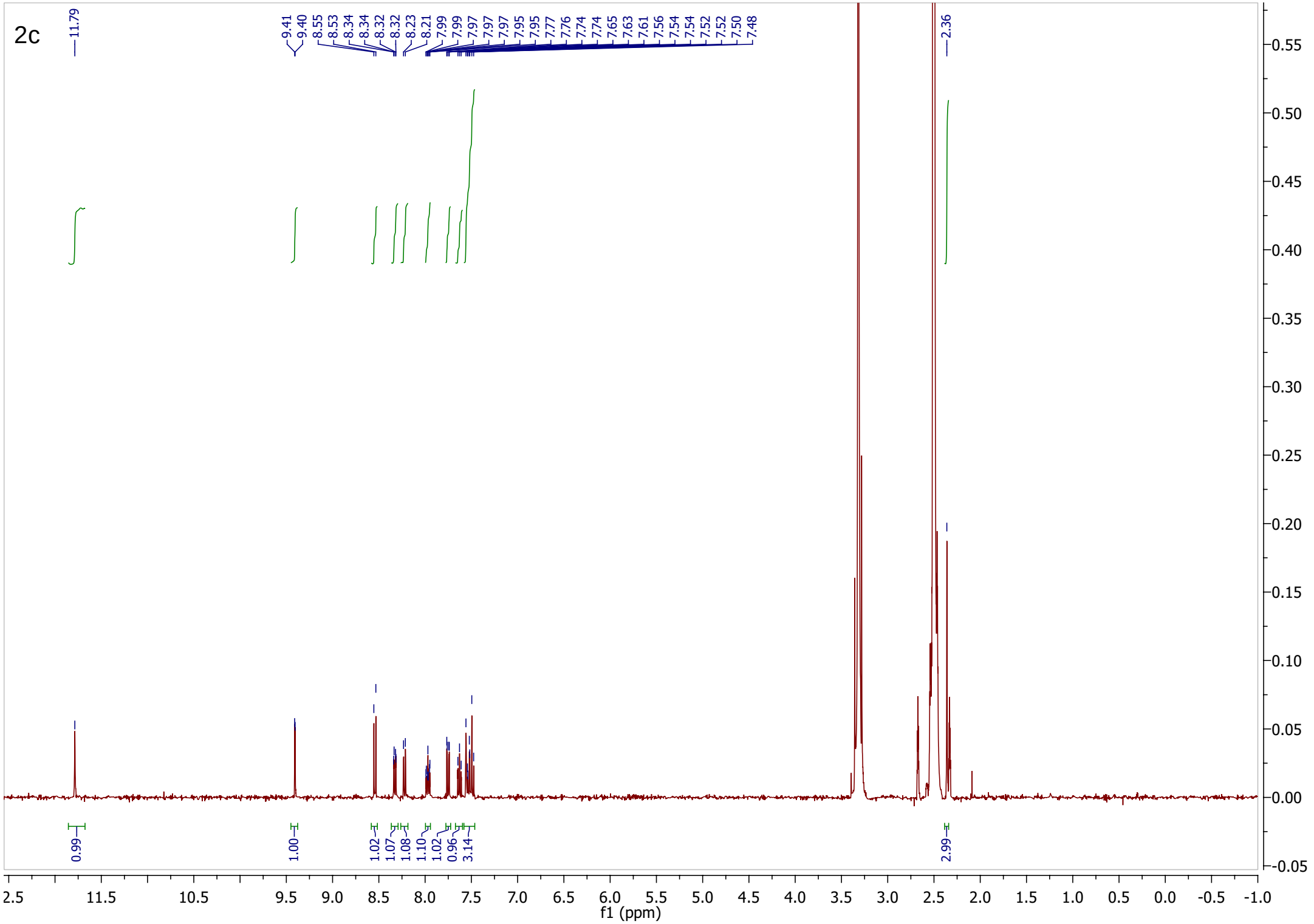

9f
168.99
163.43
159.42
157.80
153.04
147.56
146.58
136.84
134.08
131.83
130.06
129.43
125.86
125.48
124.83
124.70
121.16
120.12
118.10
117.48
117.17
89.14
20.72
f1 (ppm)

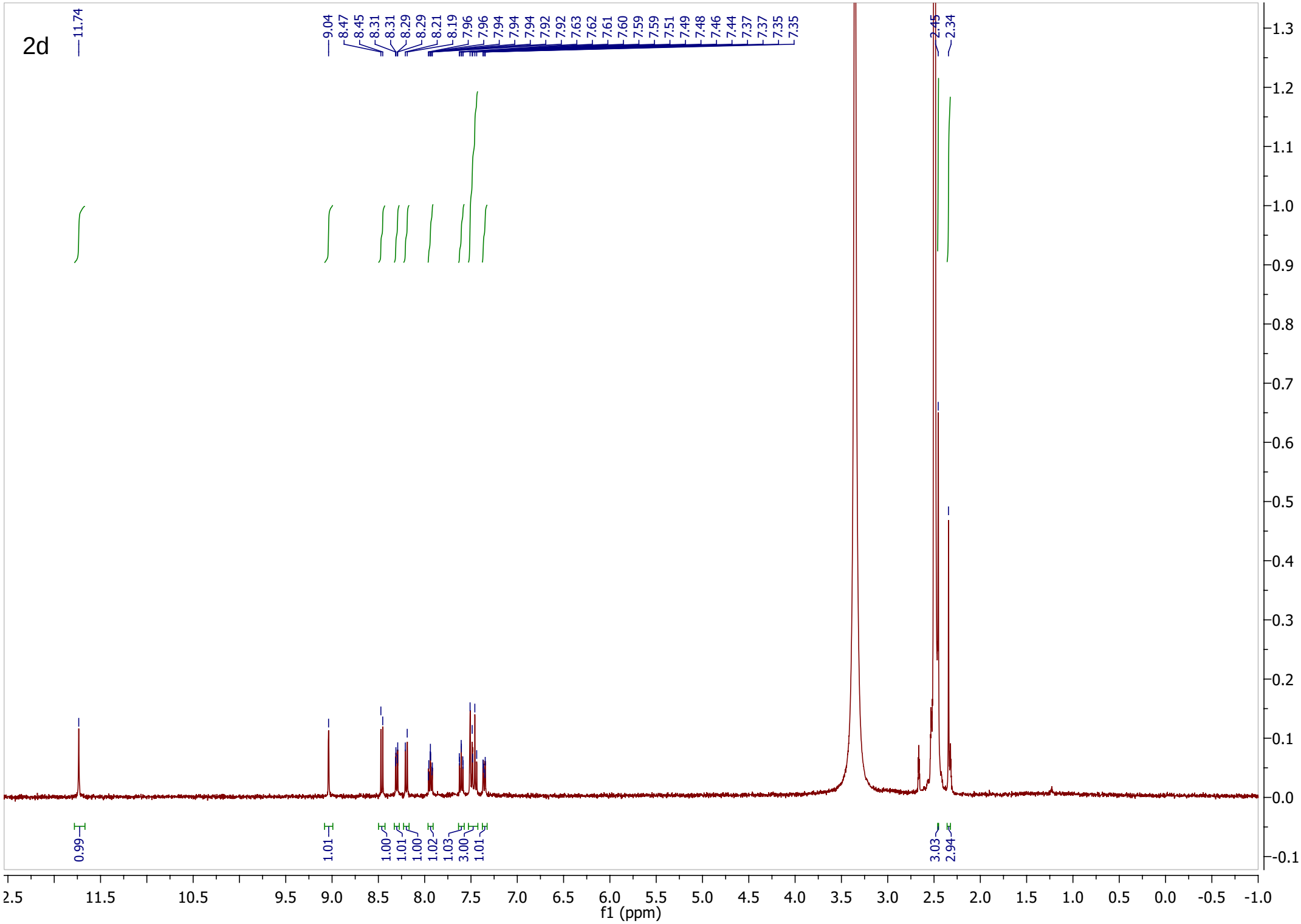

9g
8.49
8.47
8.27
8.25
7.77
7.76
7.59
7.57
7.48
6.99
6.97
6.82
6.82
6.80
6.79
3.79
3.78
1.00
1.01
1.97
2.07
1.00
1.06
2.14
1.10
6.05
f1 (ppm)

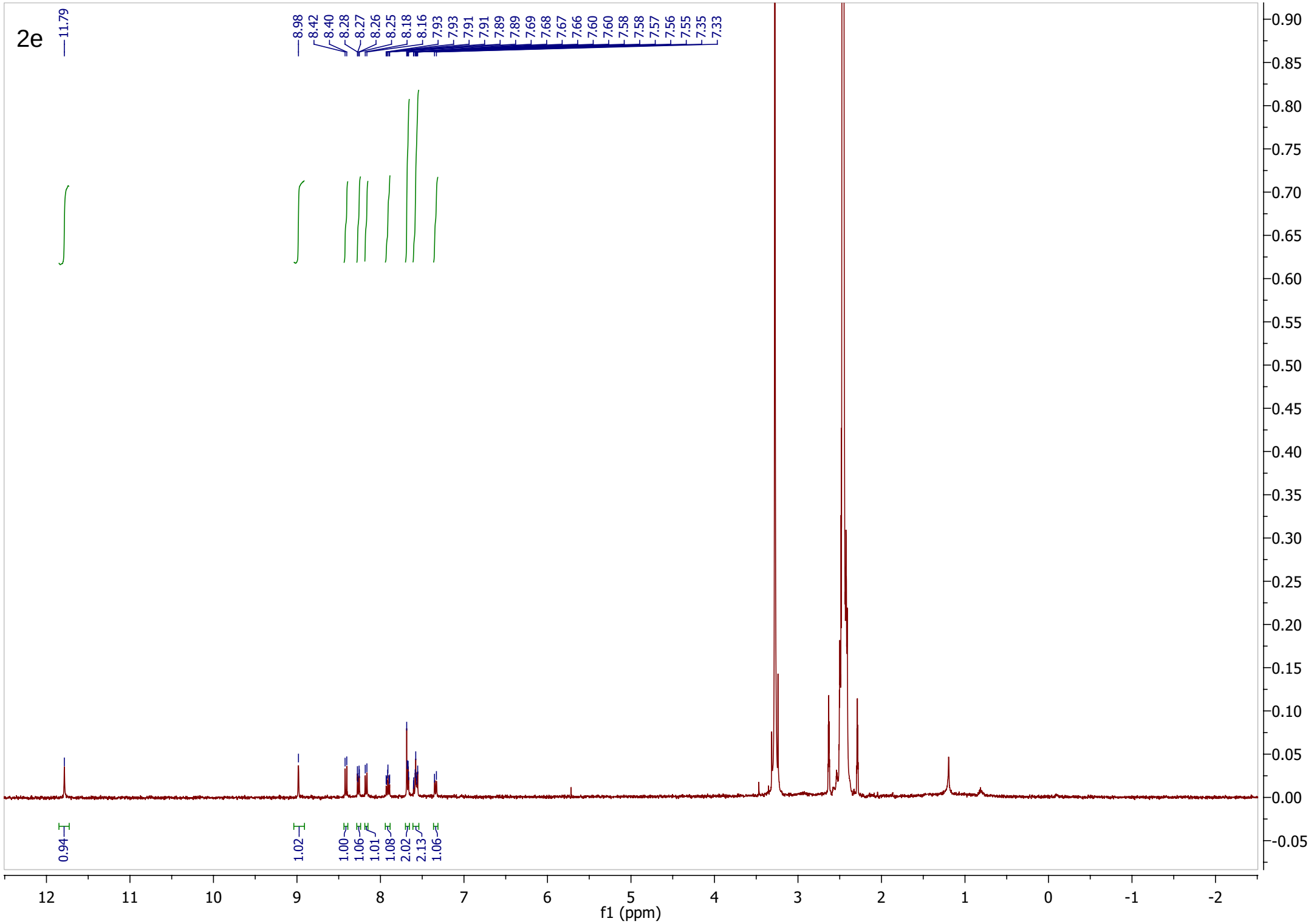

9g
163.80
159.27
158.27
157.58
156.89
153.82
148.08
134.12
132.90
128.91
127.31
126.00
123.55
122.01
117.71
116.33
114.95
108.05
105.06
55.83
0.015
0.014
0.013
0.012
0.011
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
-0.001
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
f1 (ppm)

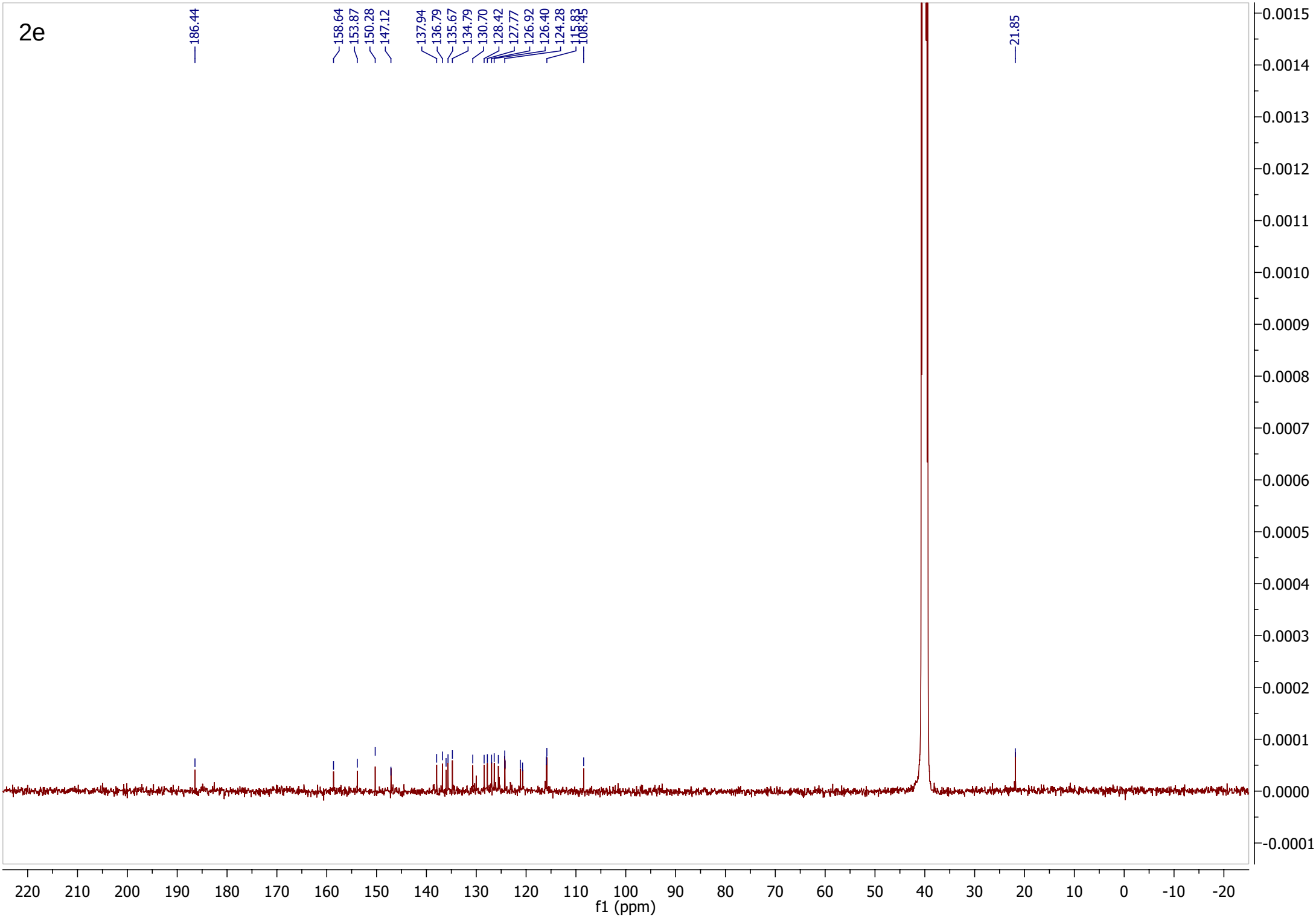

2a
11.69
9.30
9.29
8.65
8.62
8.46
8.44
7.83
7.81
7.57
7.54
7.51
7.46
7.46
7.44
7.44
7.37
7.28
7.25
7.21
7.03
7.01
6.98
6.95
3.48
2.39
2.32
1.53
1.24
0.88
0.87
0.86
0.07
Grease
0.88
0.94
1.00
0.97
2.00
4.99
1.14
3.03
f1 (ppm)

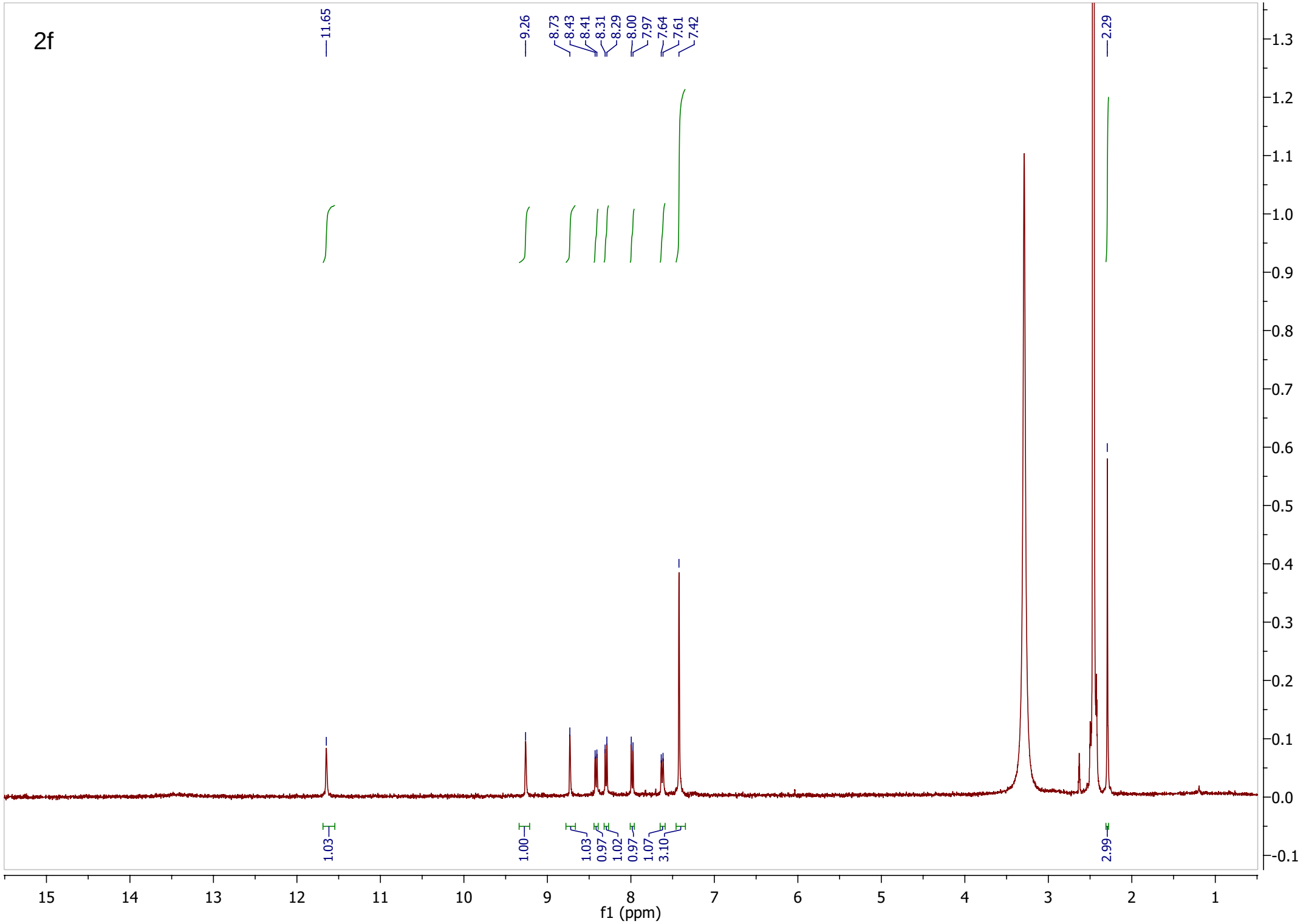

2b
11.76
9.23
9.22
8.58
8.56
8.32
8.31
8.30
8.29
8.21
8.19
7.97
7.96
7.95
7.95
7.93
7.93
7.63
7.61
7.61
7.59
7.59
7.53
7.52
7.50
7.49
7.47
7.45
2.34
2.33
0.78
0.76
0.99
1.00
0.98
1.13
2.08
3.07
2.96
f1 (ppm)

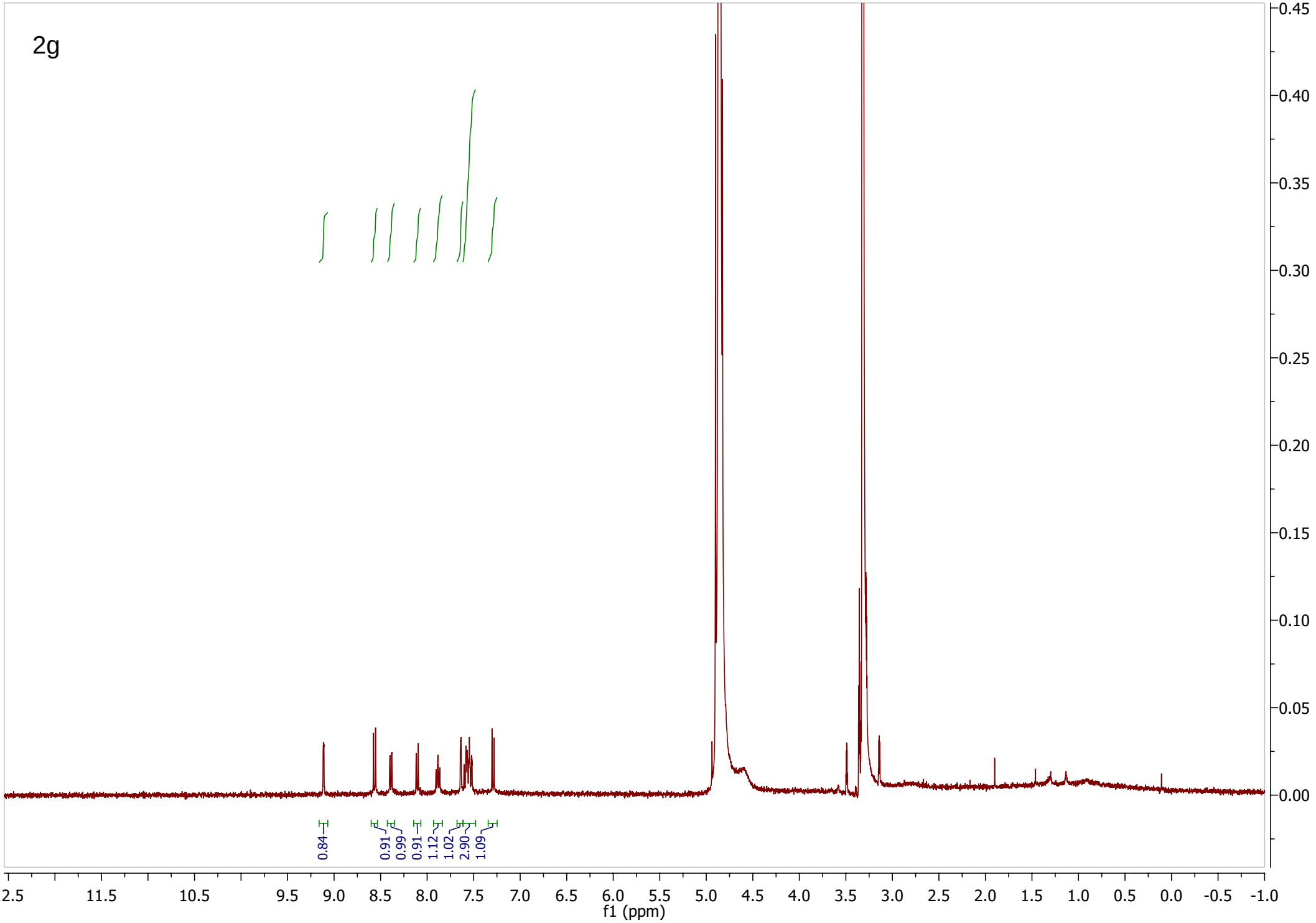

2c
11.79
9.41
9.40
8.55
8.53
8.34
8.34
8.32
8.32
8.23
8.21
7.99
7.99
7.97
7.97
7.97
7.95
7.95
7.77
7.76
7.74
7.74
7.65
7.63
7.61
7.56
7.54
7.54
7.52
7.52
7.50
7.48
2.36
0.99
1.00
1.02
1.07
1.08
1.10
1.02
0.96
3.14
2.99
f1 (ppm)


2d
11.74
9.04
8.47
8.45
8.31
8.31
8.29
8.29
8.21
8.19
7.96
7.96
7.94
7.94
7.94
7.92
7.92
7.63
7.62
7.61
7.60
7.59
7.59
7.51
7.49
7.48
7.46
7.44
7.37
7.37
7.35
7.35
2.45
2.34
0.99
1.01
1.00
1.01
1.00
1.02
1.03
3.00
1.01
3.03
2.94
f1 (ppm)


2e
11.79
8.98
8.42
8.40
8.28
8.27
8.26
8.25
8.18
8.16
7.93
7.93
7.91
7.91
7.89
7.89
7.69
7.68
7.67
7.66
7.60
7.60
7.58
7.58
7.57
7.56
7.55
7.35
7.33
0.94
1.02
1.00
1.06
1.01
1.08
2.02
2.13
1.06
f1 (ppm)


2e
186.44
158.64
153.87
150.28
147.12
137.94
136.79
135.67
134.79
130.70
128.42
127.77
126.92
126.40
124.28
115.83
108.45
21.85
f1 (ppm)


2f
11.65
9.26
8.73
8.43
8.41
8.31
8.29
8.00
7.97
7.64
7.61
7.42
2.29
1.03
1.00
1.03
0.97
1.02
0.97
1.07
3.10
2.99
f1 (ppm)


2g
0.84
0.91
0.99
0.91
1.12
1.02
2.90
1.09
f1 (ppm)