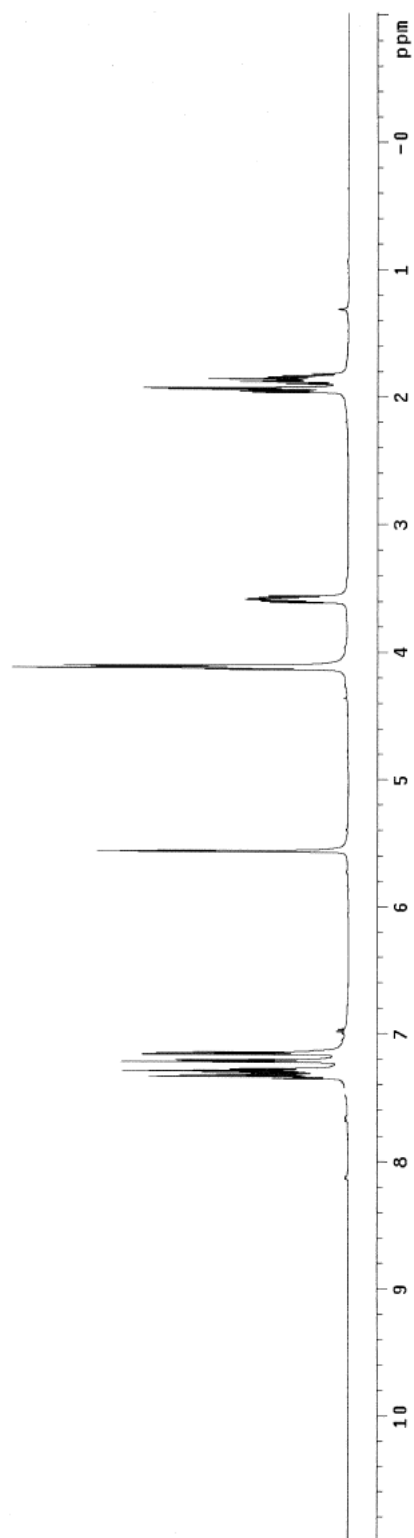
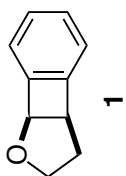


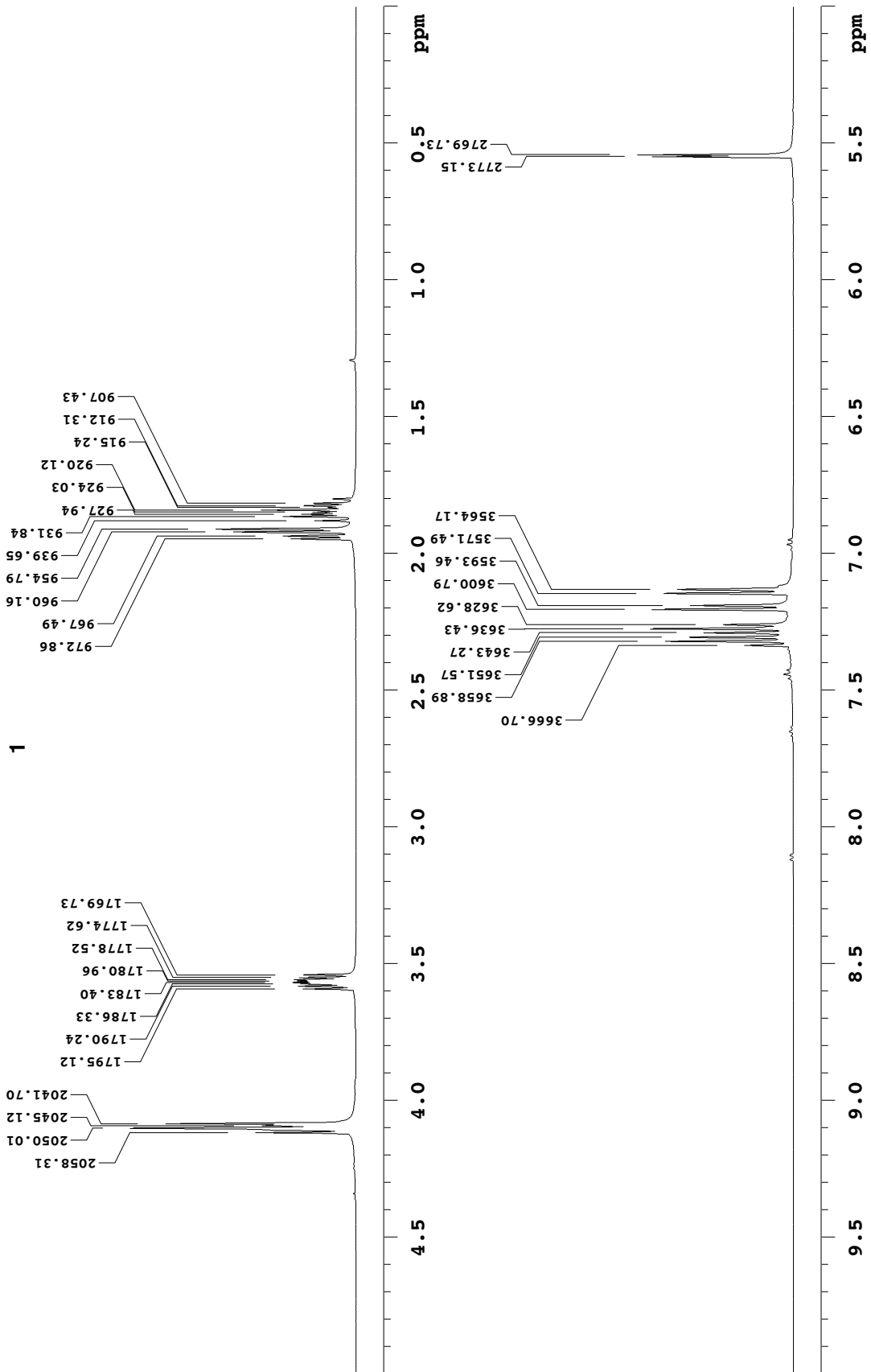
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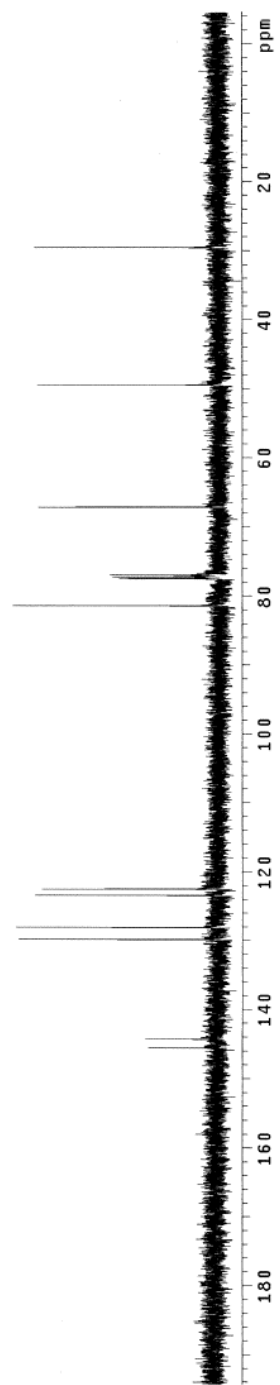
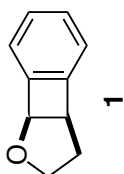
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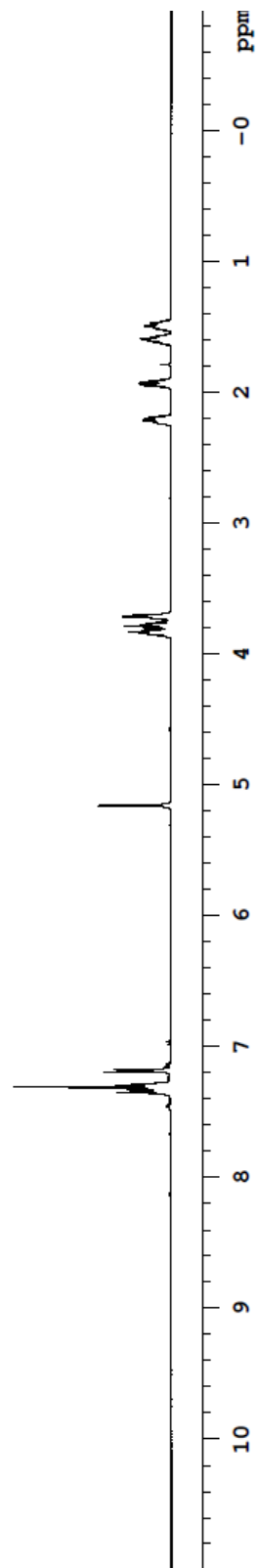
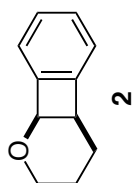
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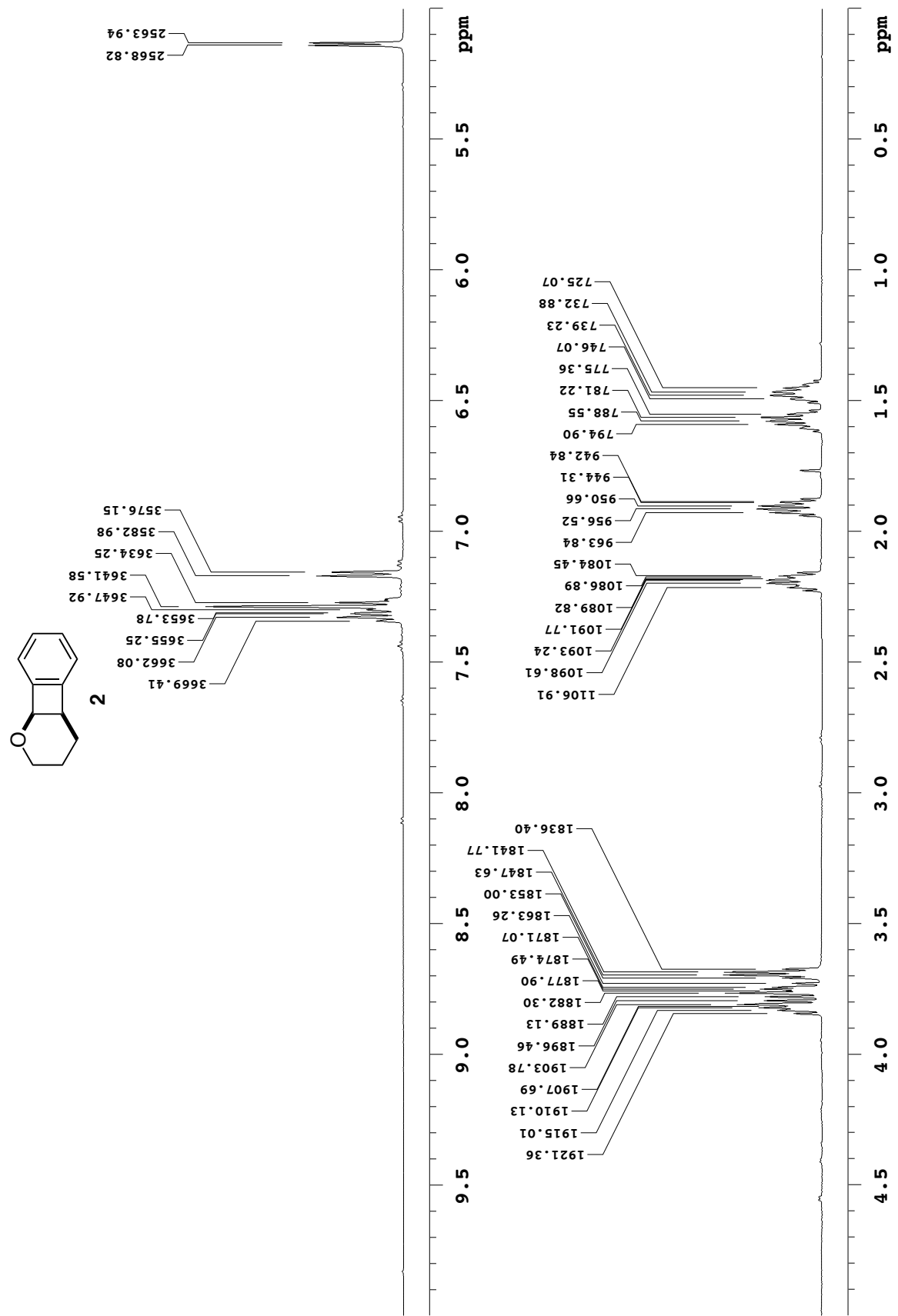
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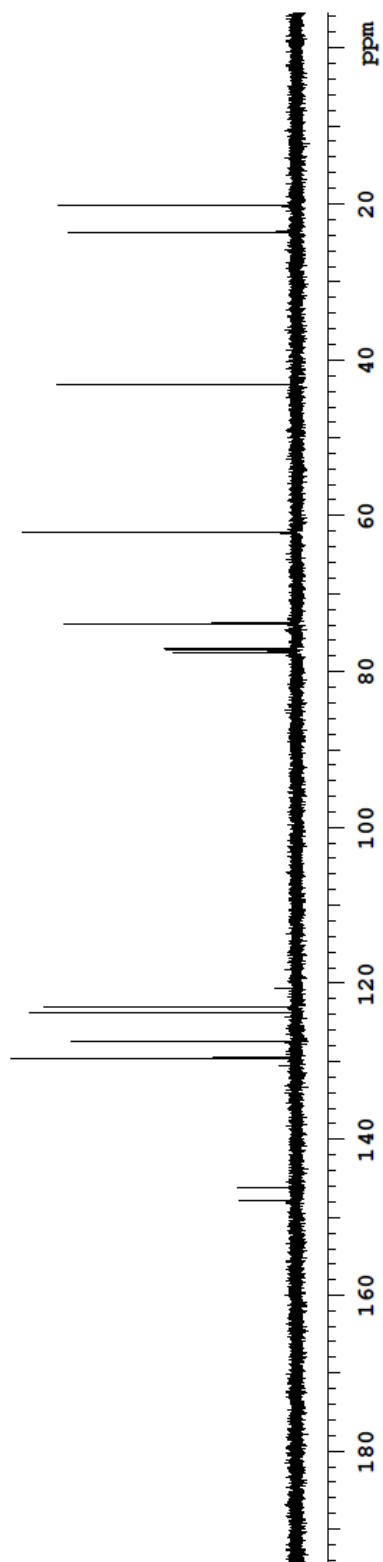
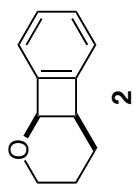


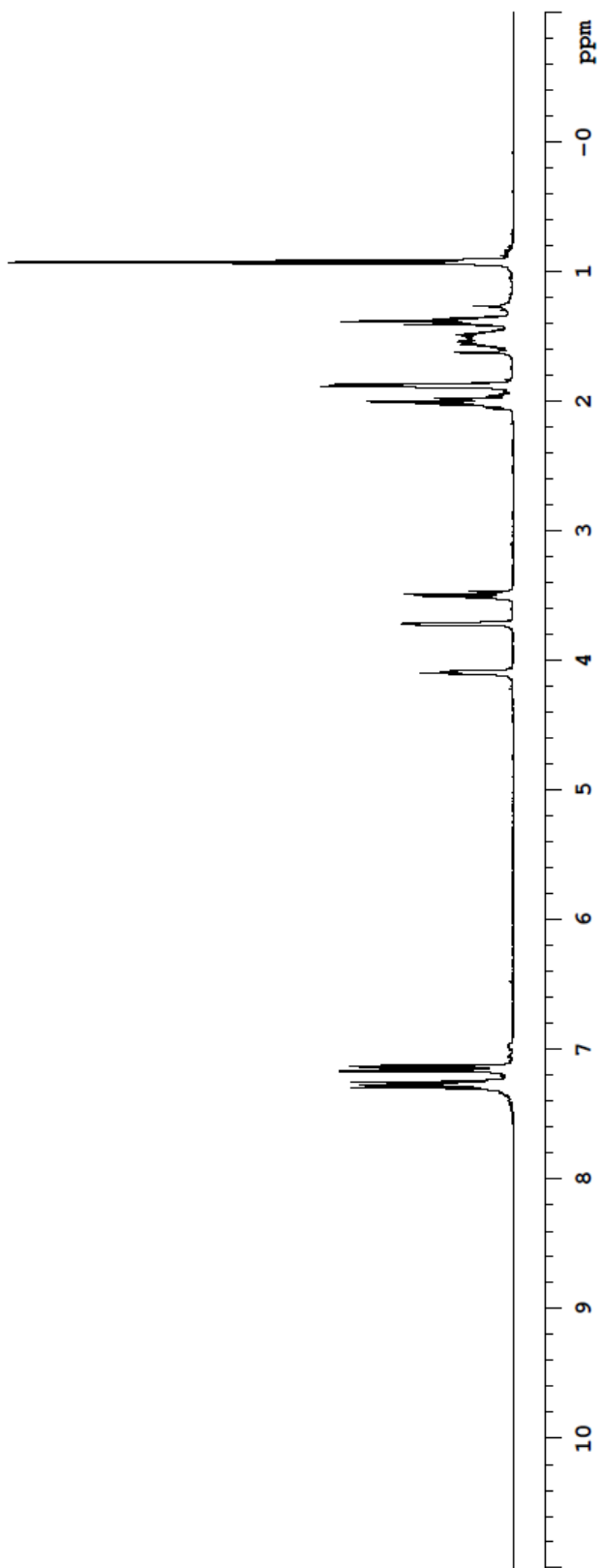
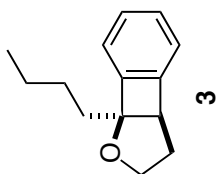


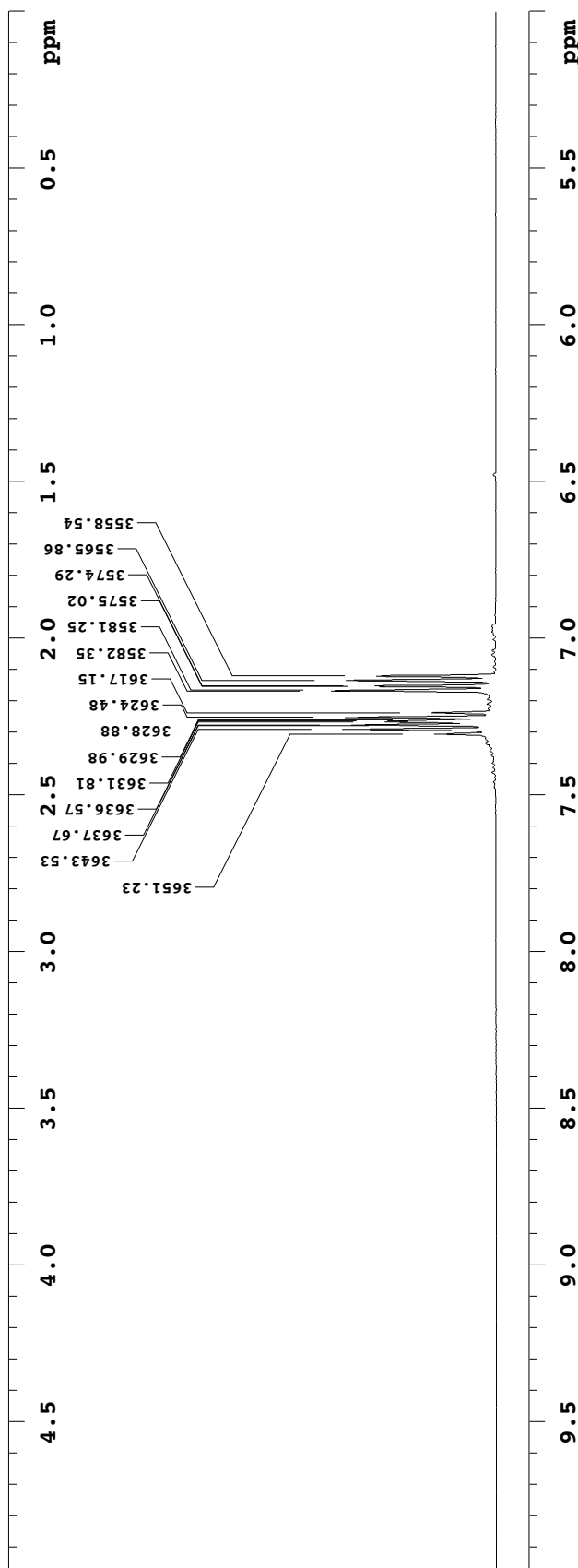
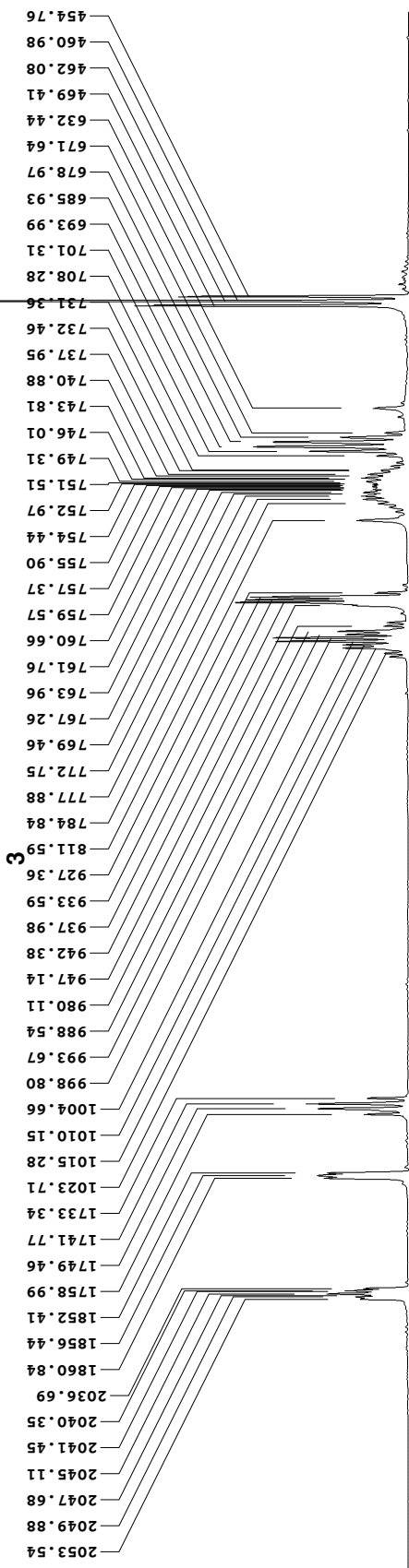
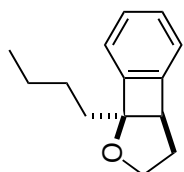


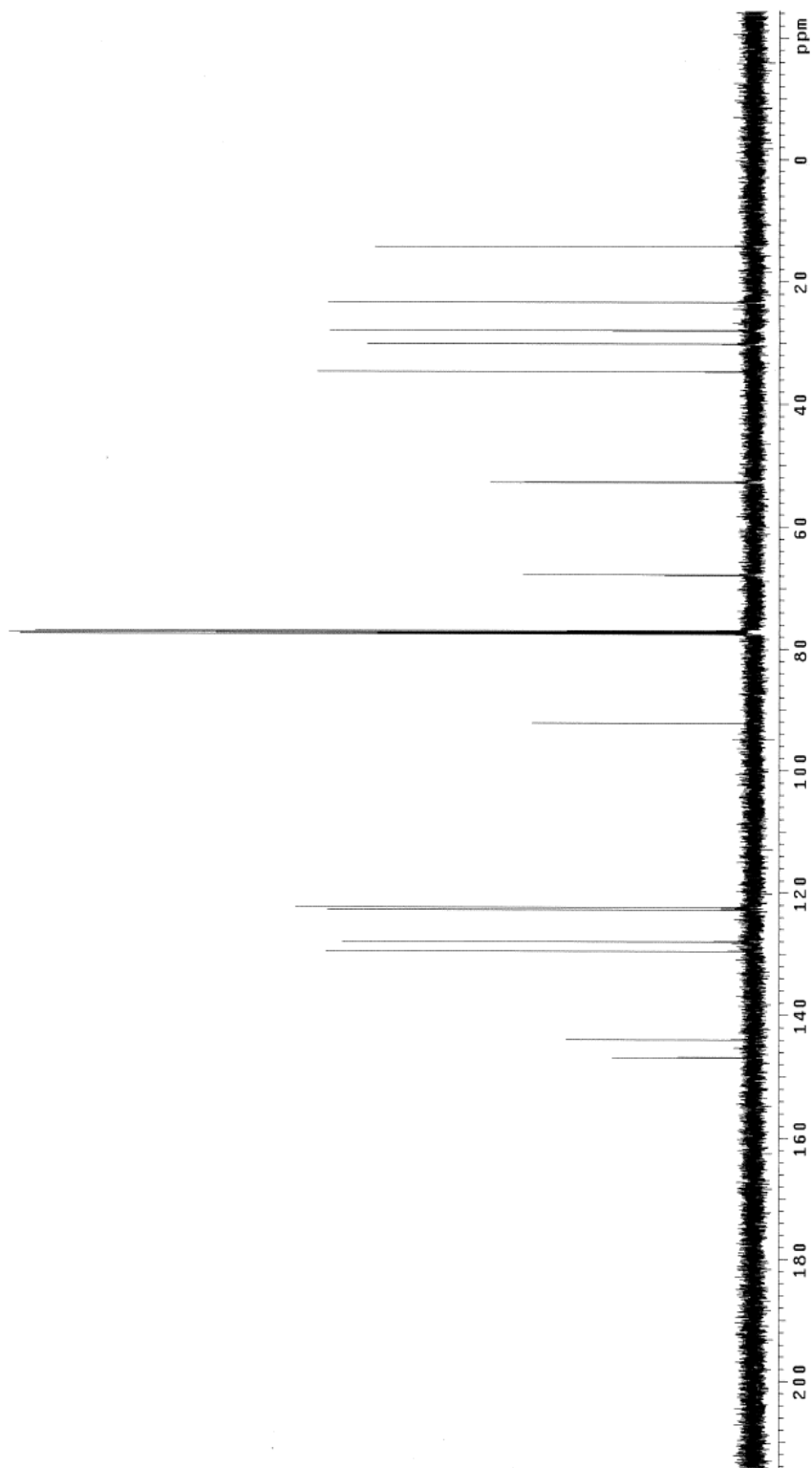
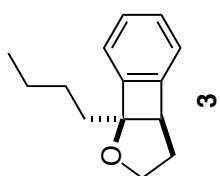




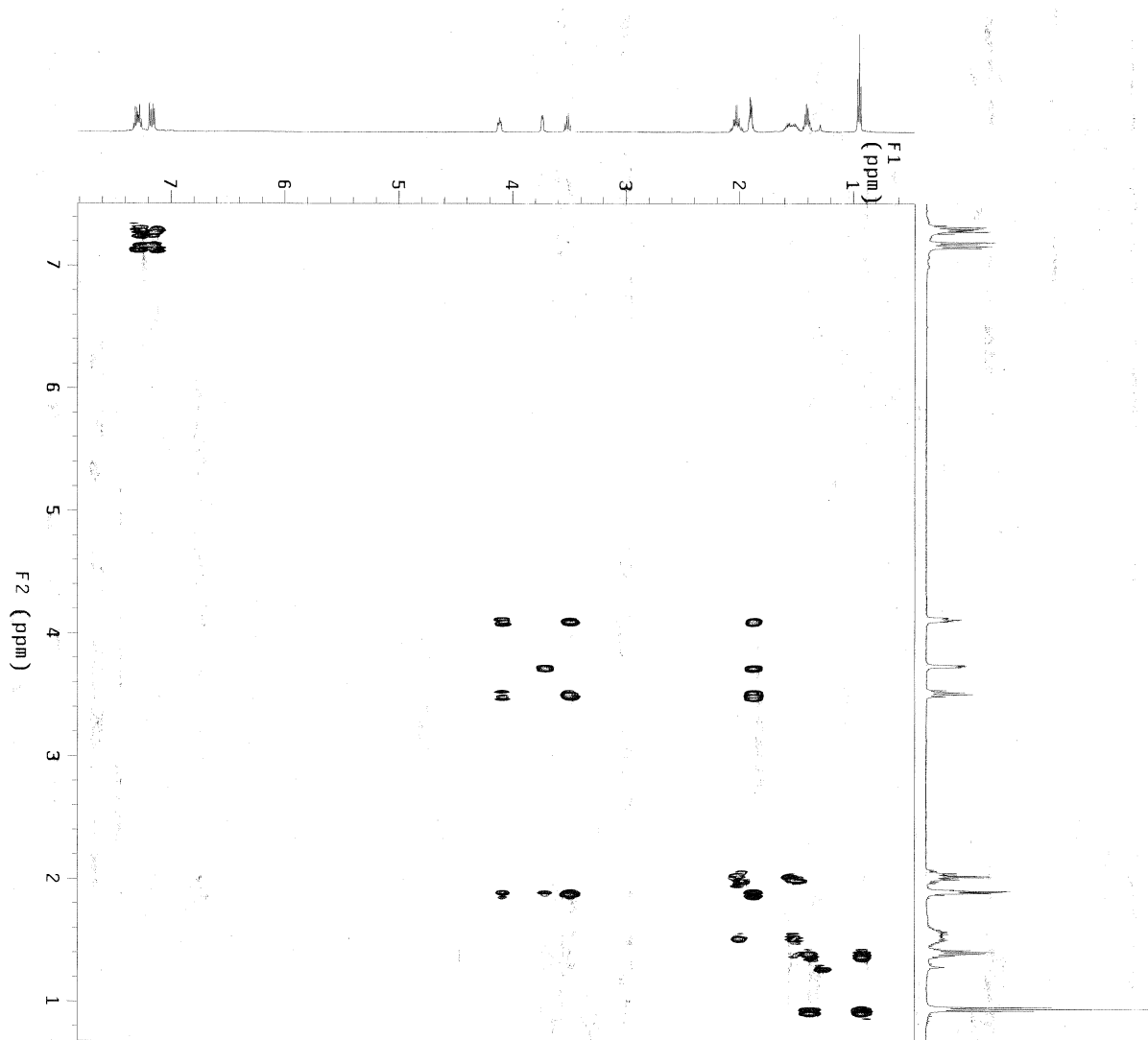
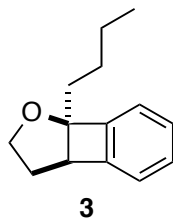




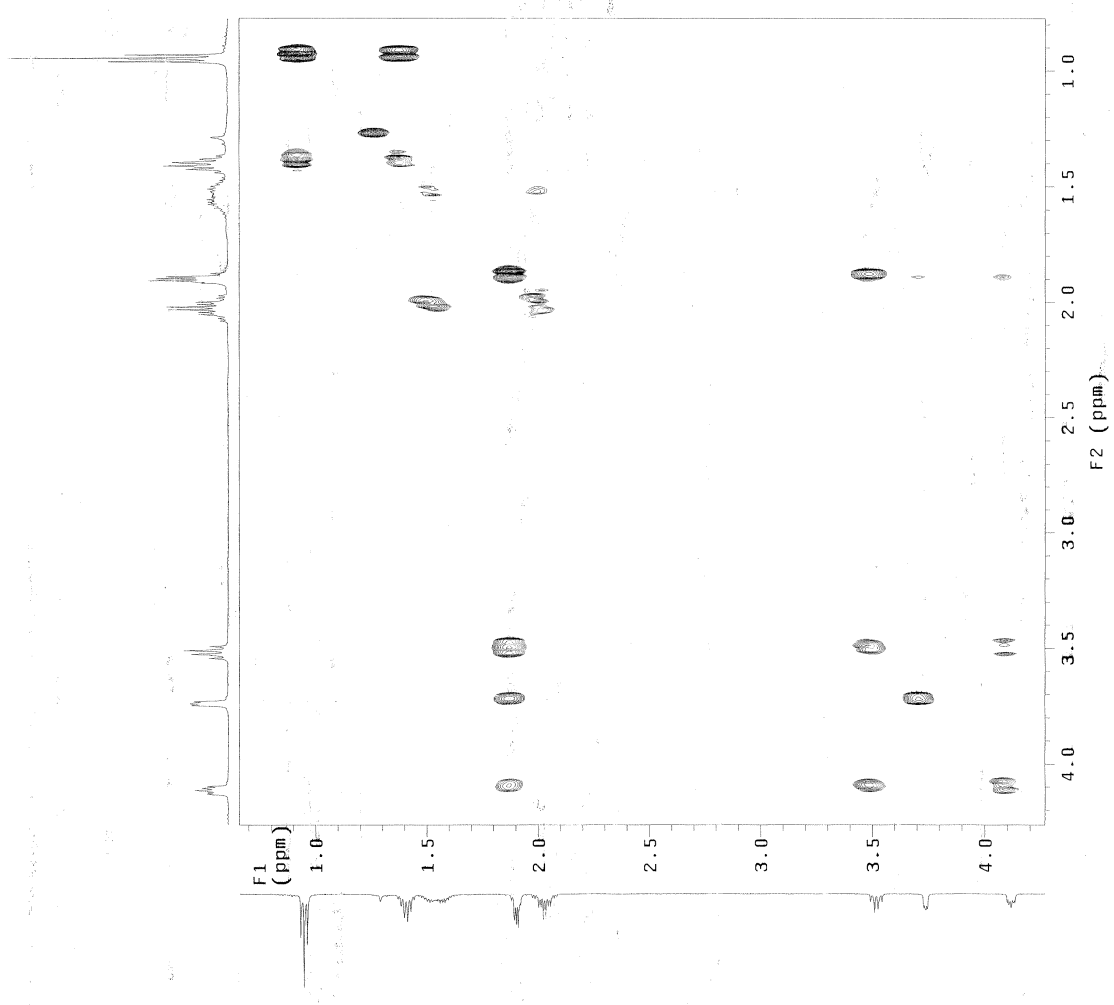
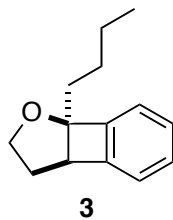


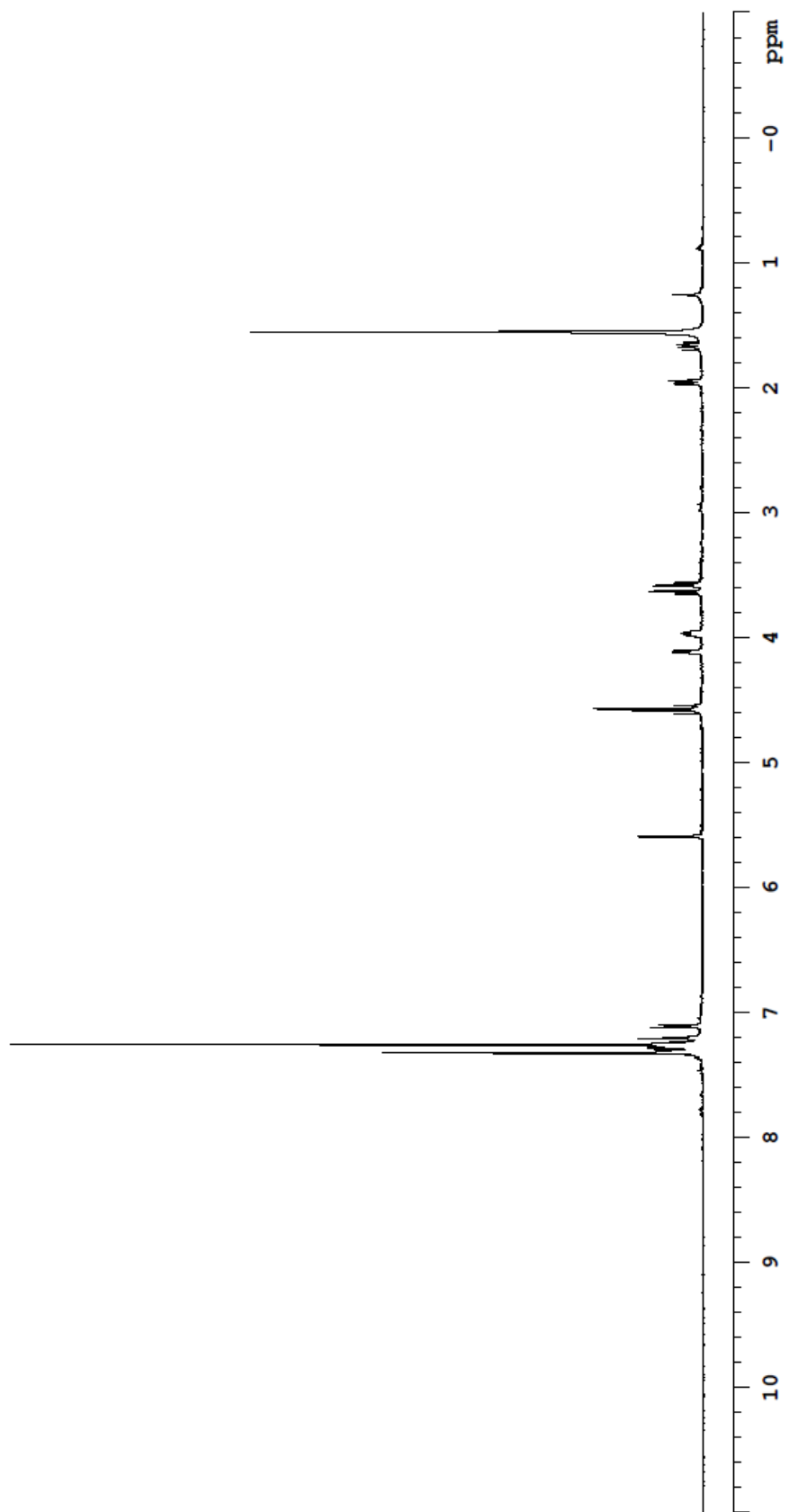
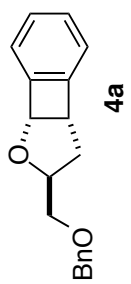


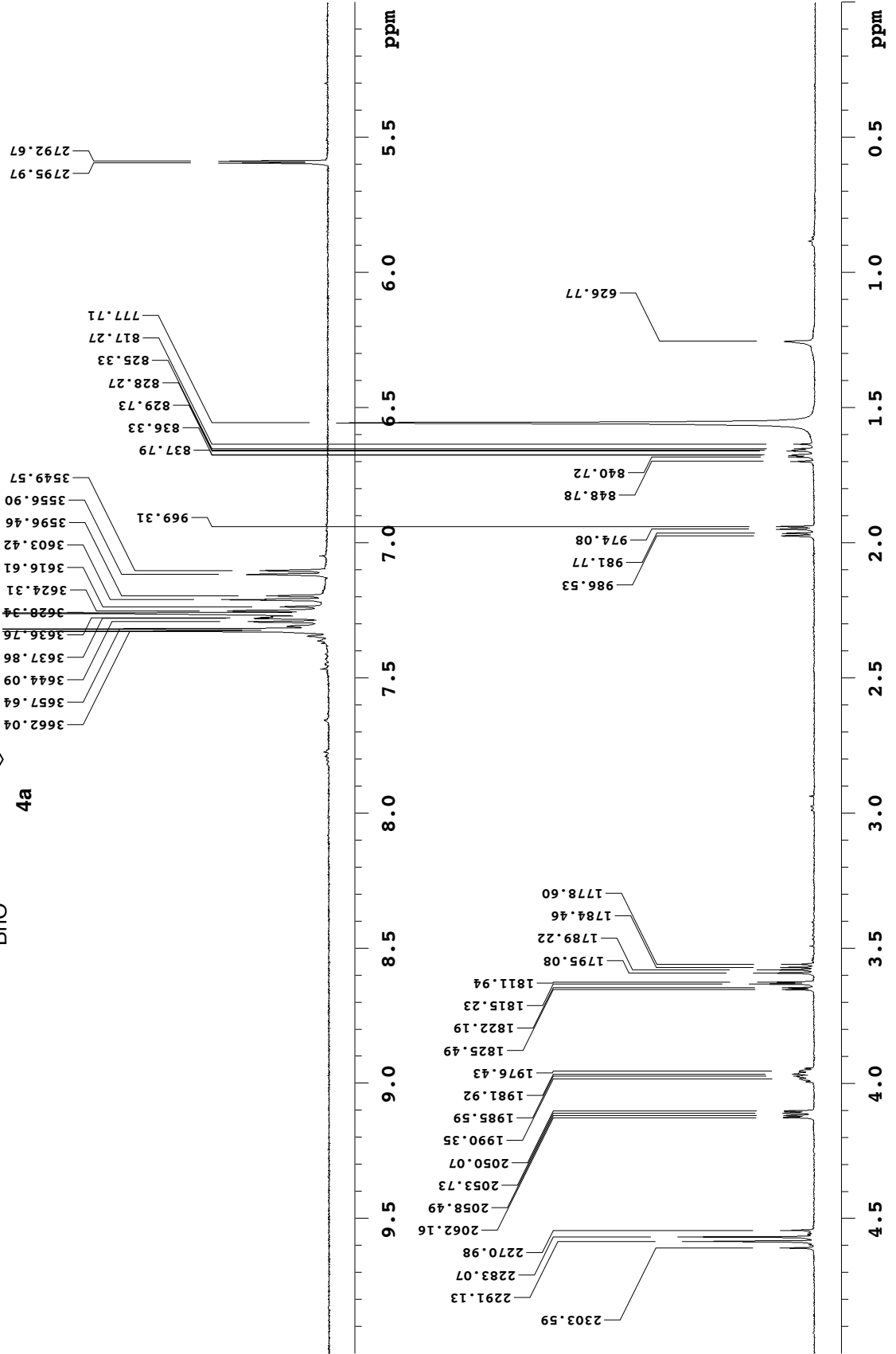
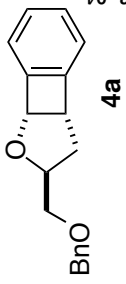
gCOSY spectrum of compound 3 in CDCl<sub>3</sub>



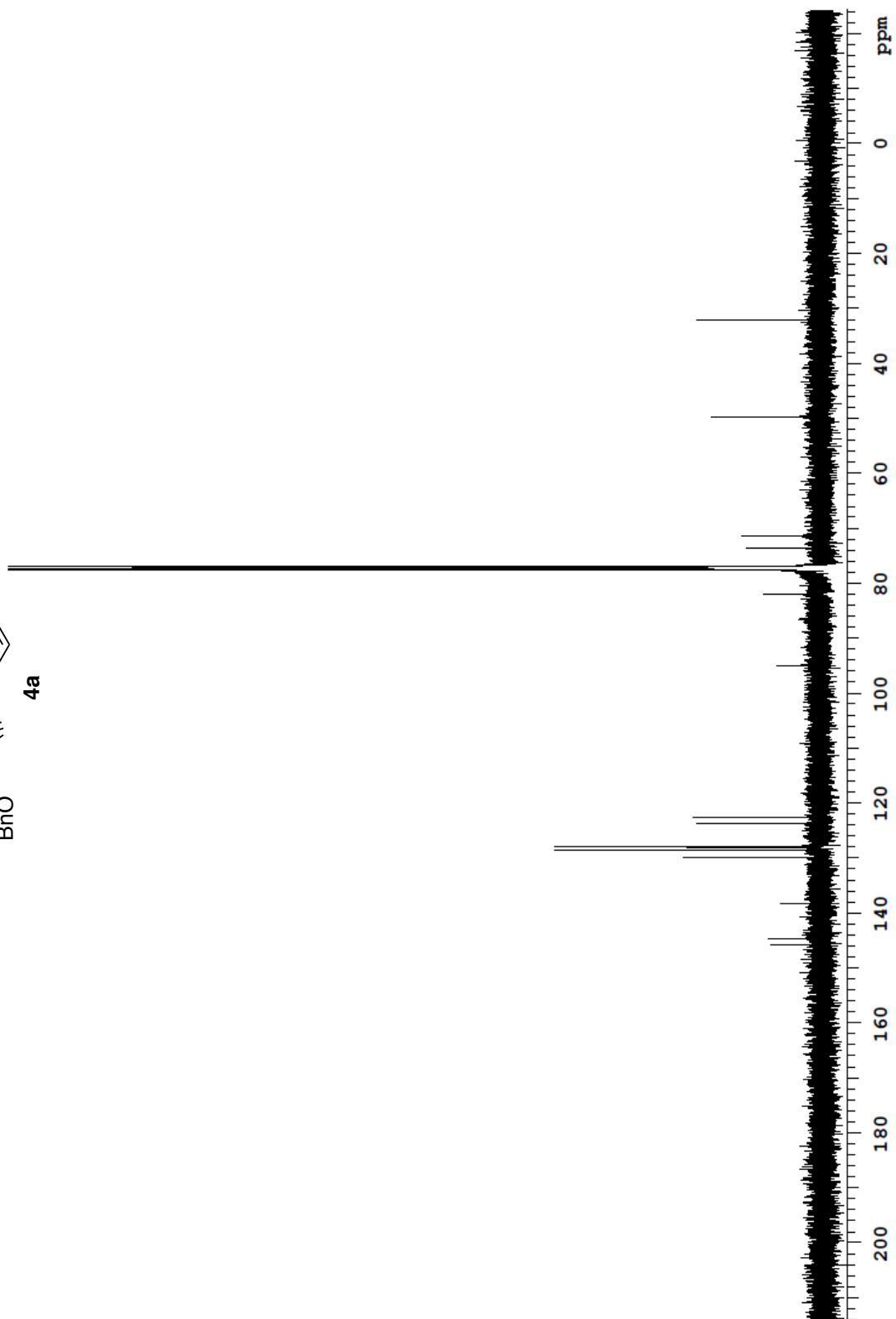
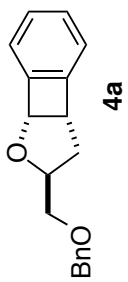
Expanded gCOSY spectrum of compound **3** in CDCl<sub>3</sub>



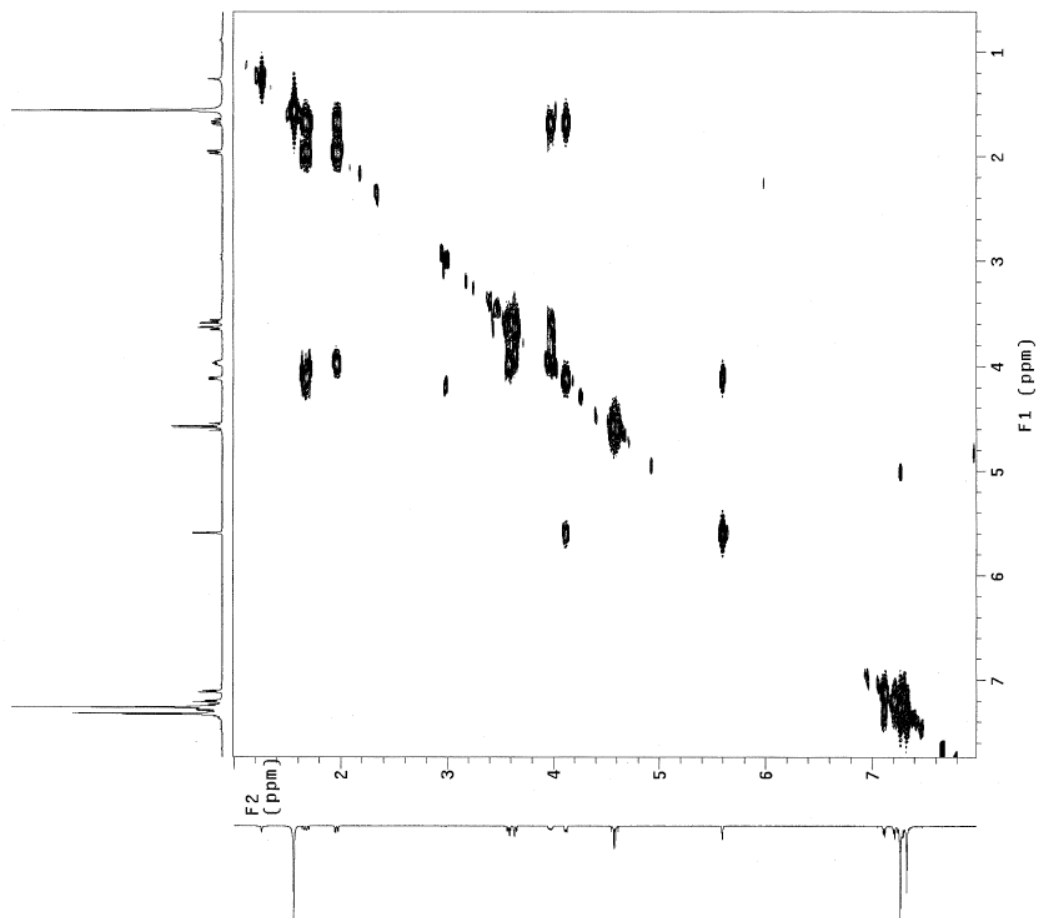
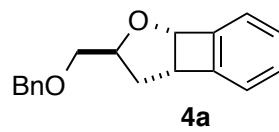




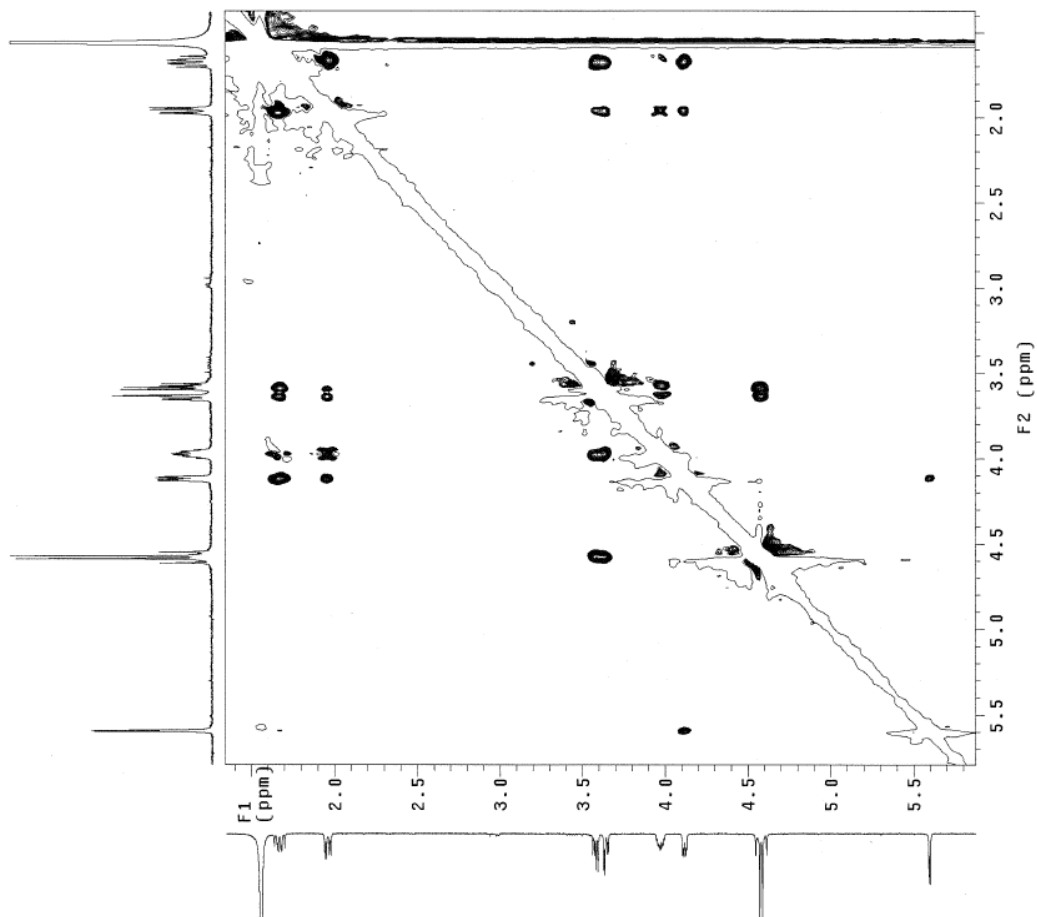
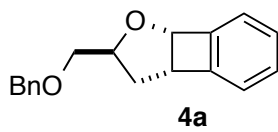


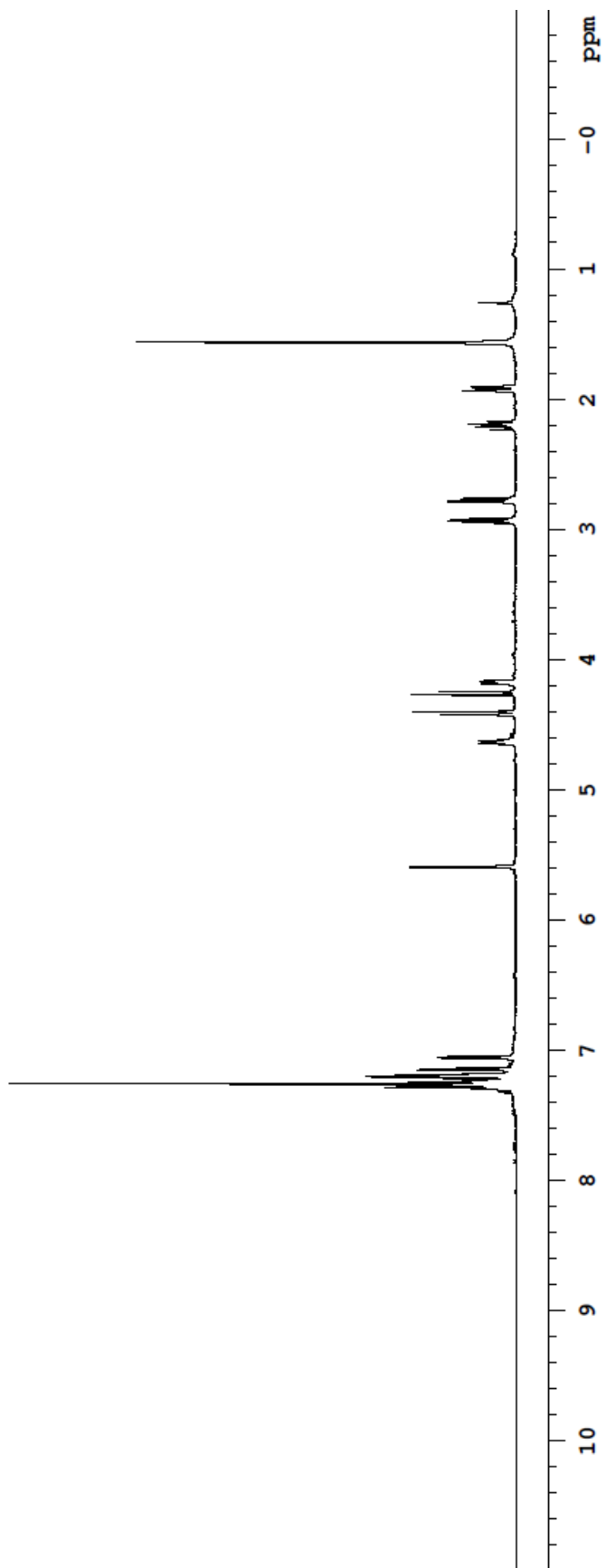
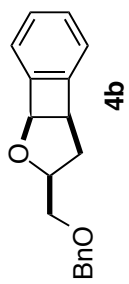


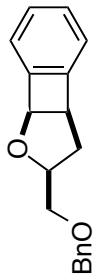
gCOSY spectrum of compound **4a** in CDCl<sub>3</sub>



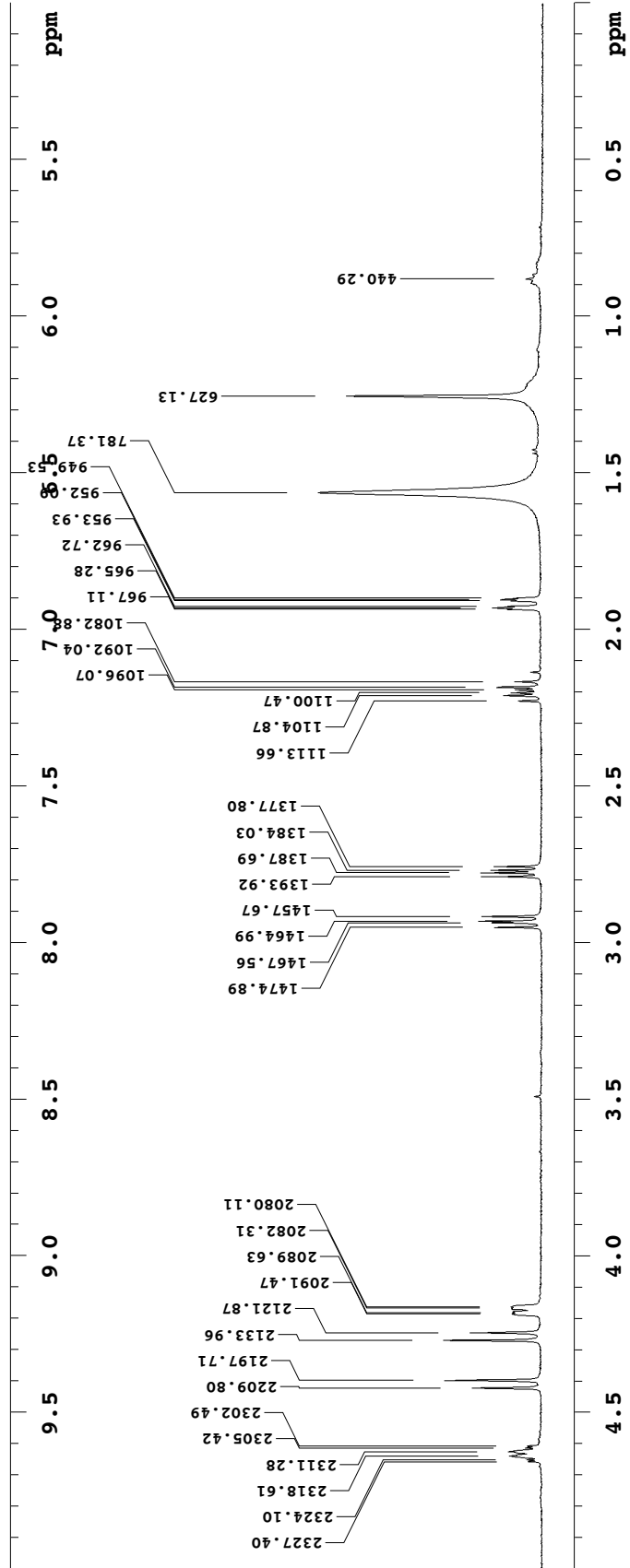
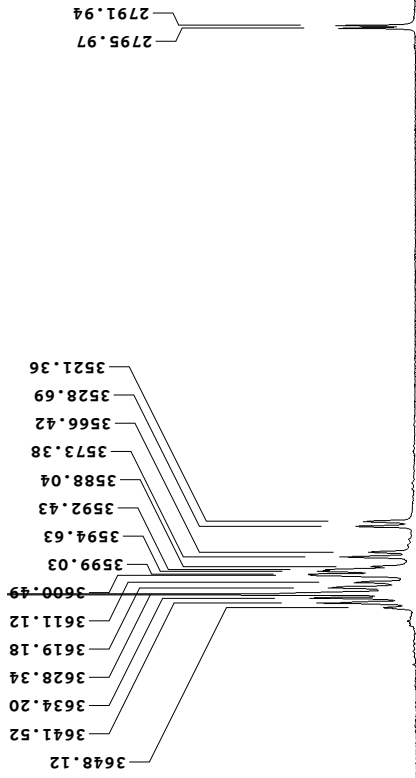
NOESY spectrum of compound **4a** in CDCl<sub>3</sub>

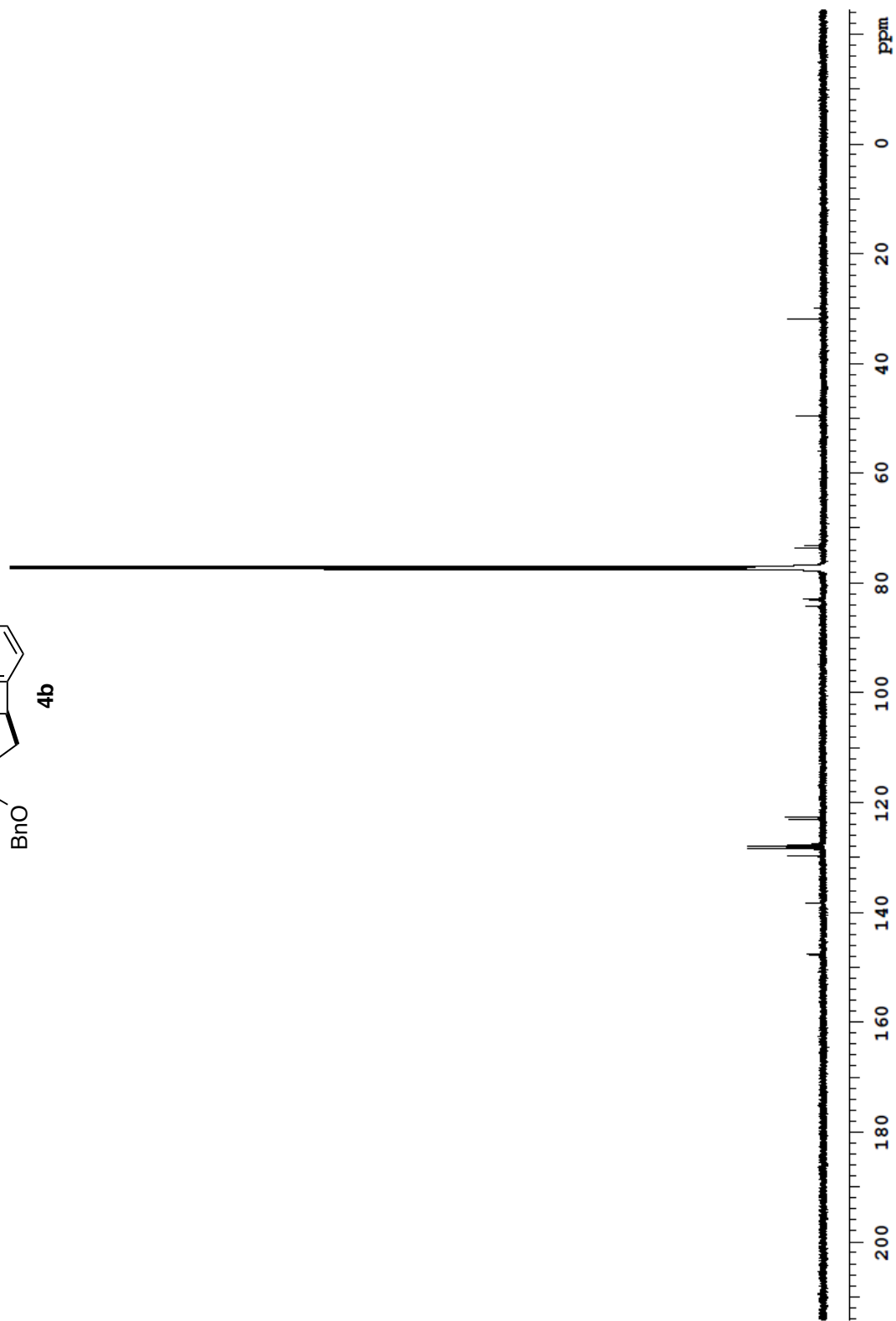
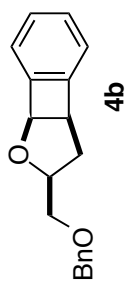




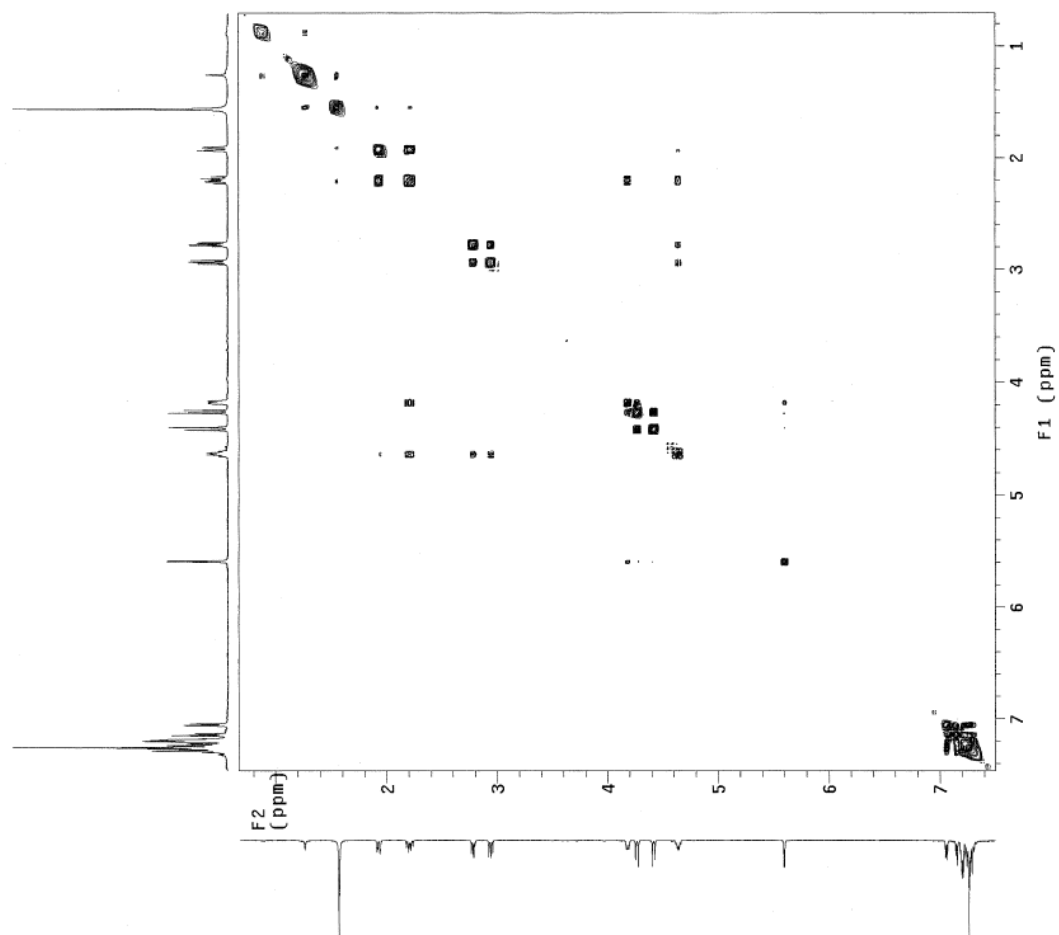
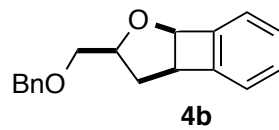


4b

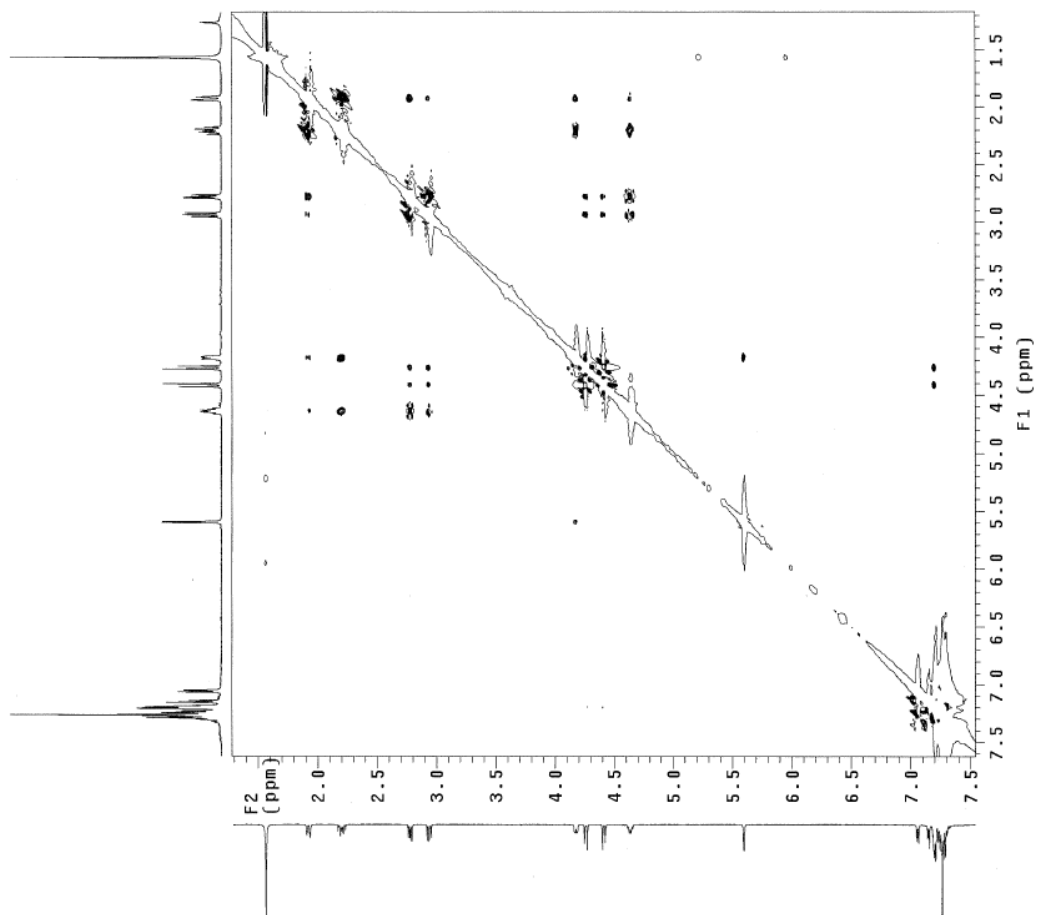
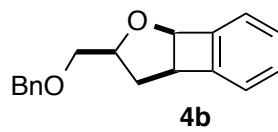




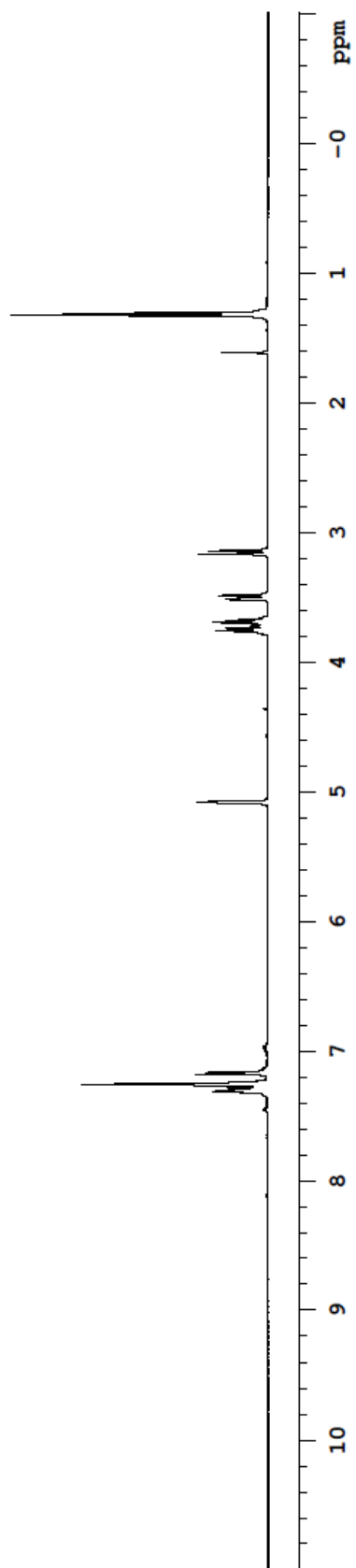
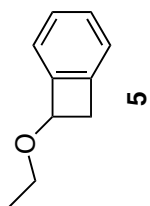
gCOSY spectrum of compound **4b** in CDCl<sub>3</sub>

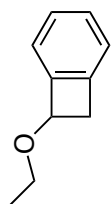


NOESY spectrum of compound **4b** in CDCl<sub>3</sub>









5

1882.21  
1875.38  
1873.42  
1868.05  
1866.59  
1848.52  
1841.20  
1834.36  
1832.41  
1756.24  
1751.84  
1742.08  
1737.68  
1582.41  
1568.25

663.95  
657.12  
649.79

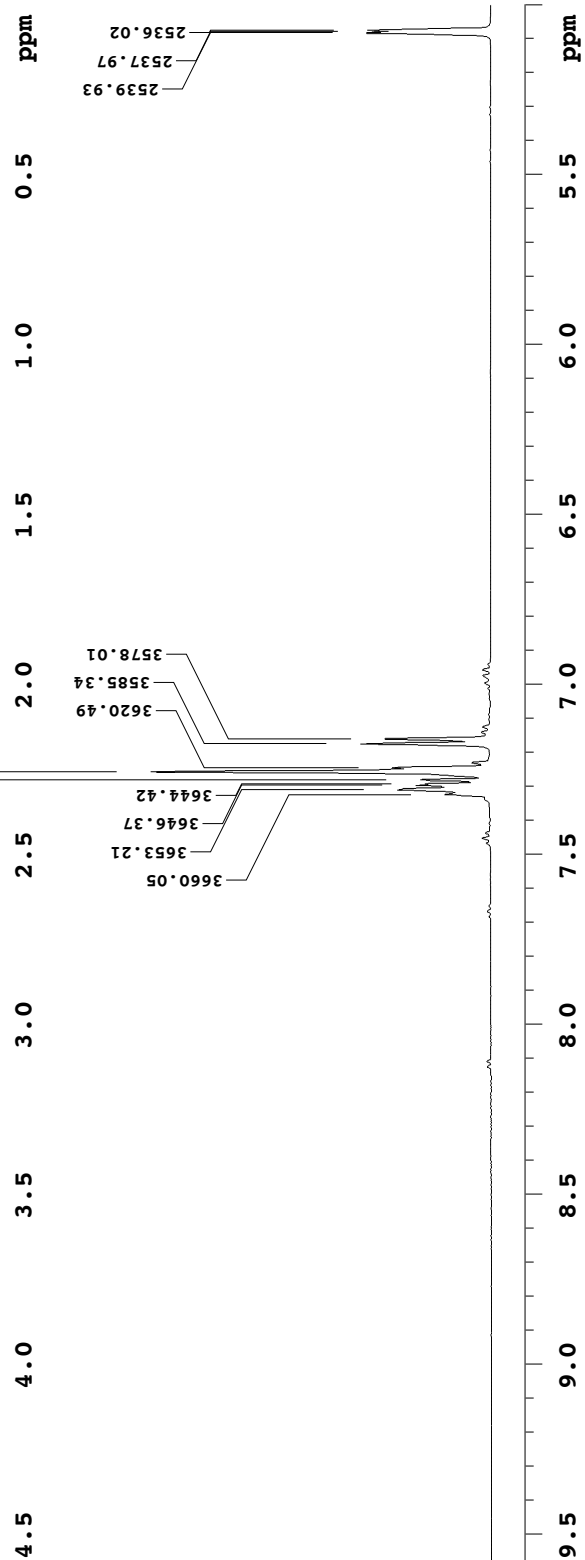
804.09

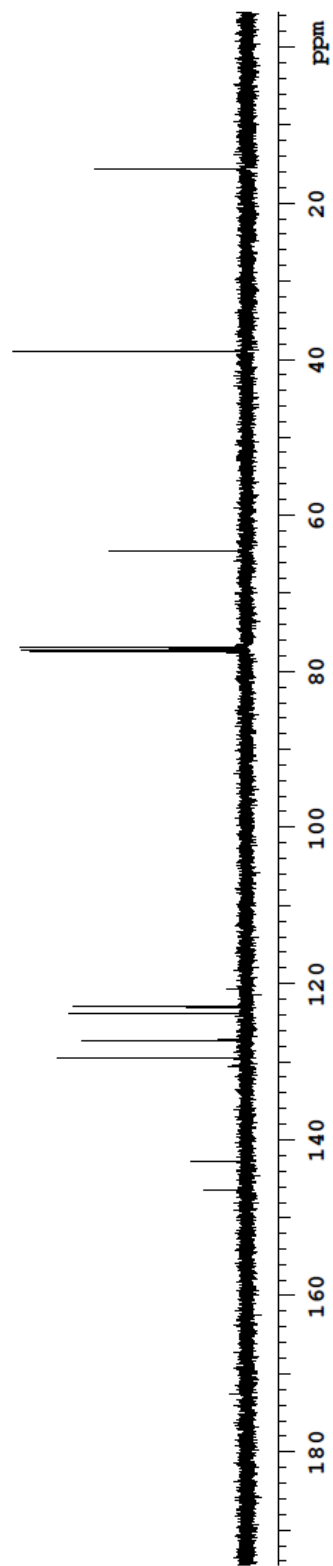
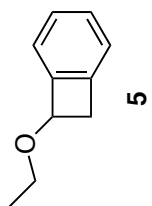
3638.07  
3626.35

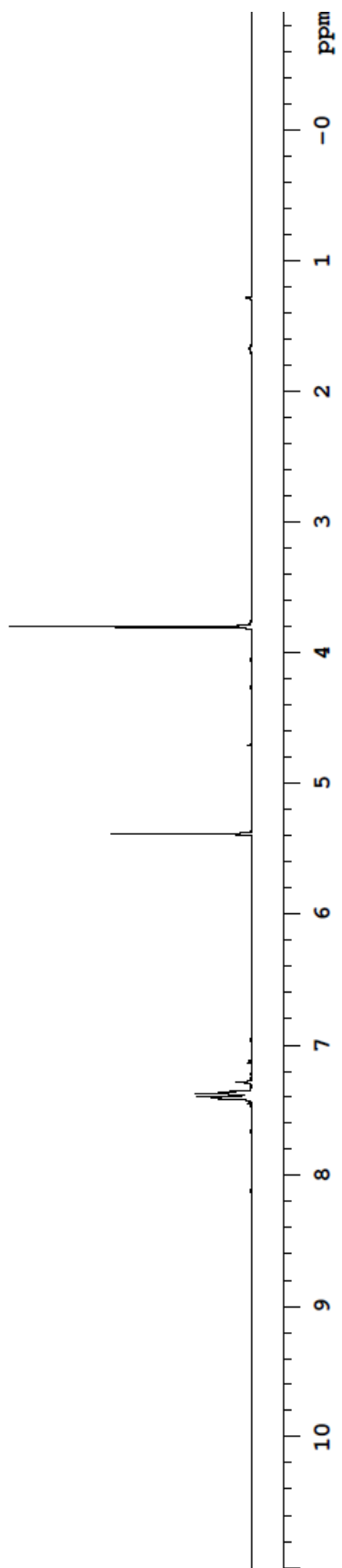
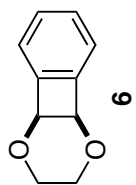
3660.05  
3653.21  
3646.37  
3644.42

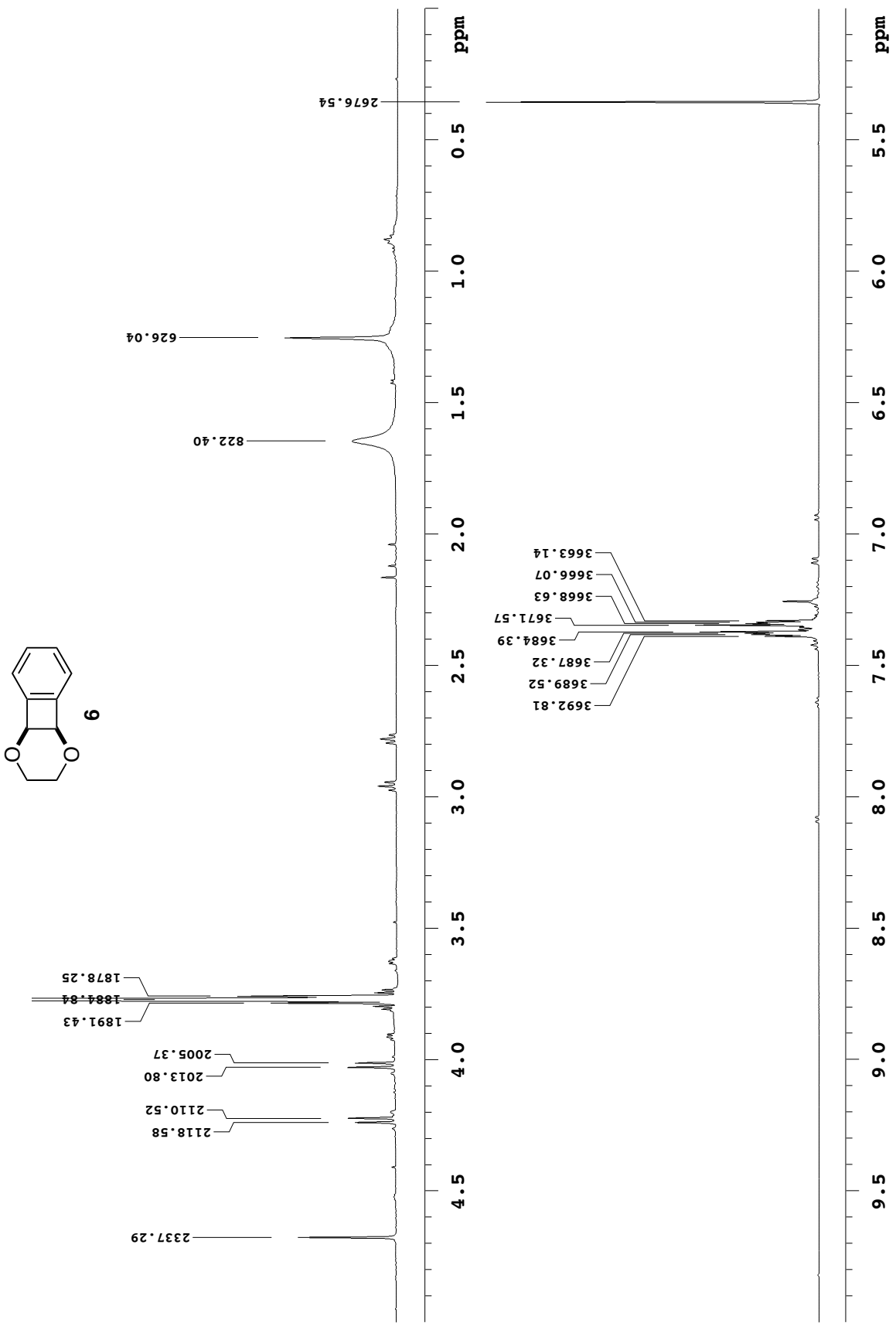
3620.49  
3585.34  
3578.01

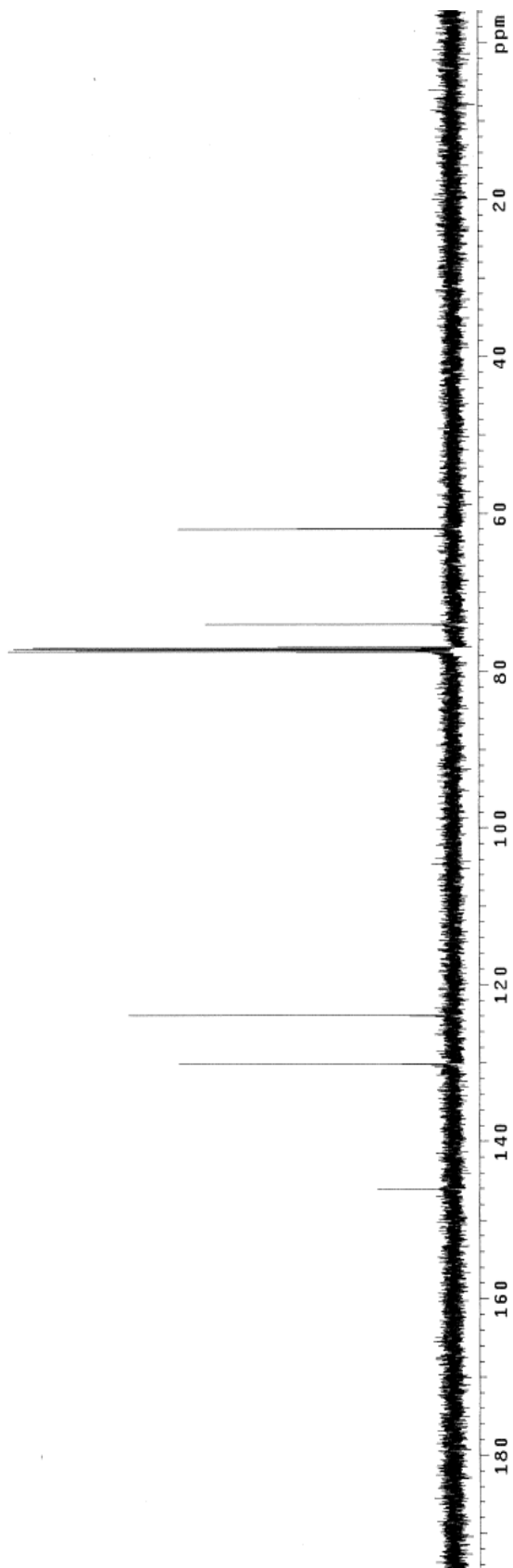
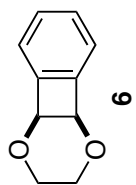
2539.93  
2537.97  
2536.02

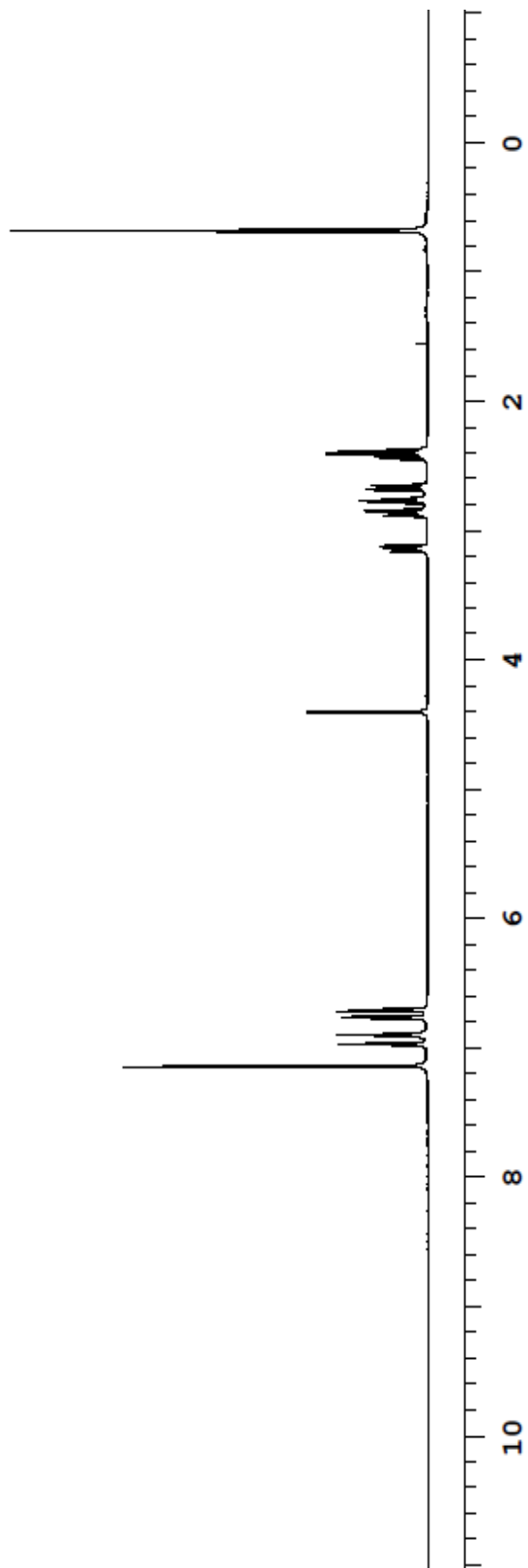
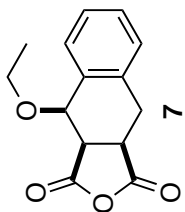


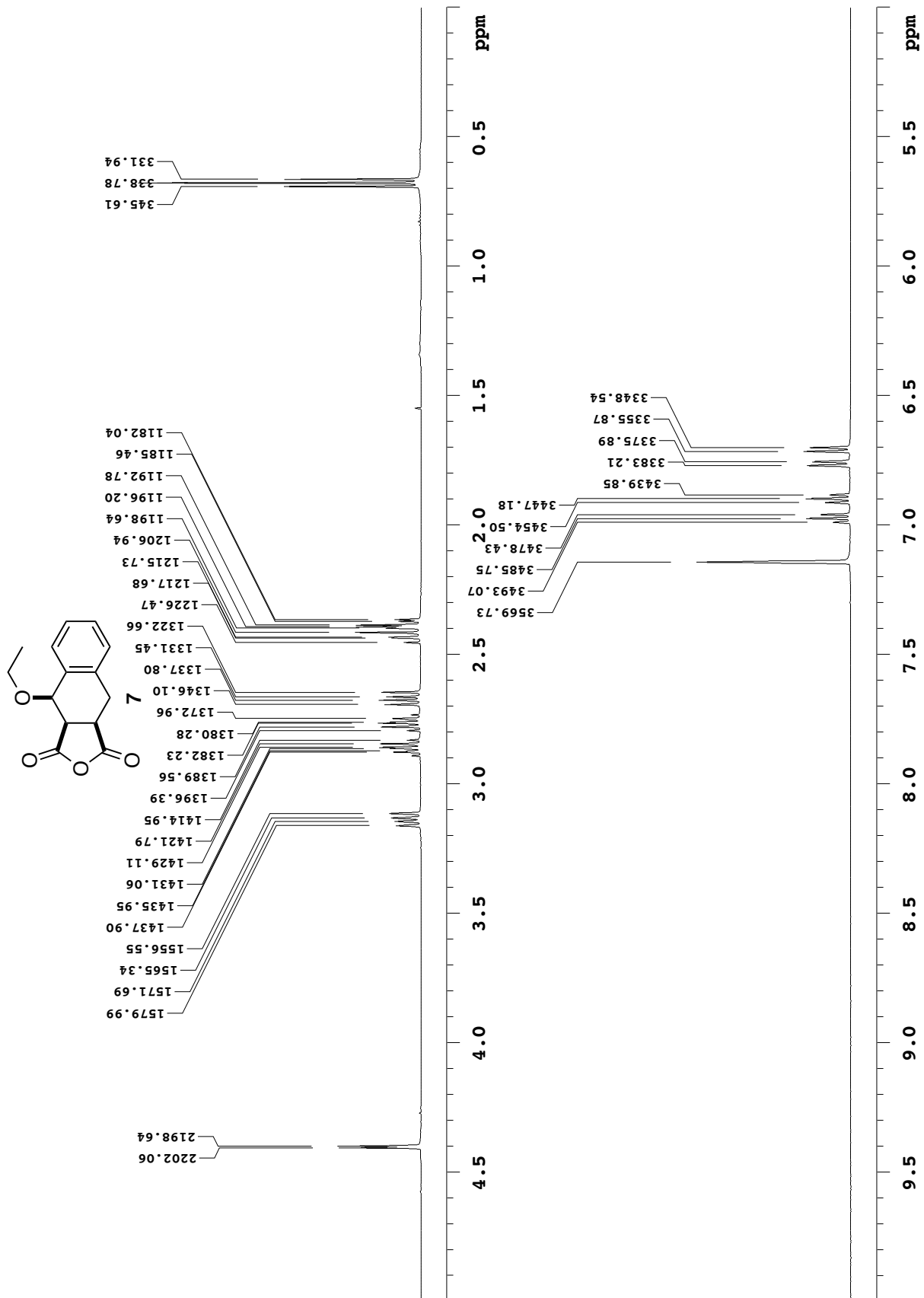




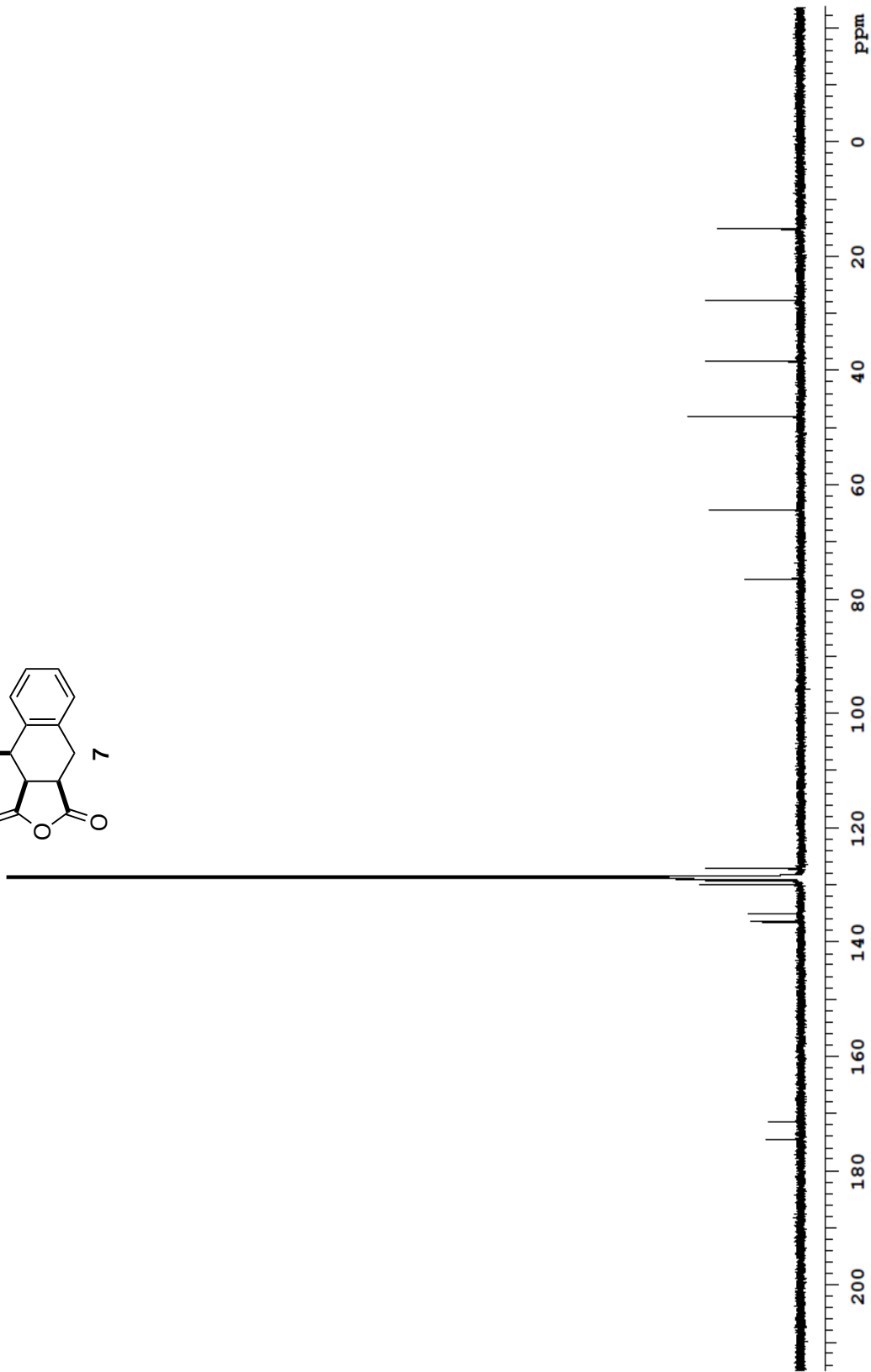
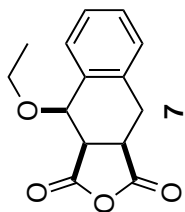




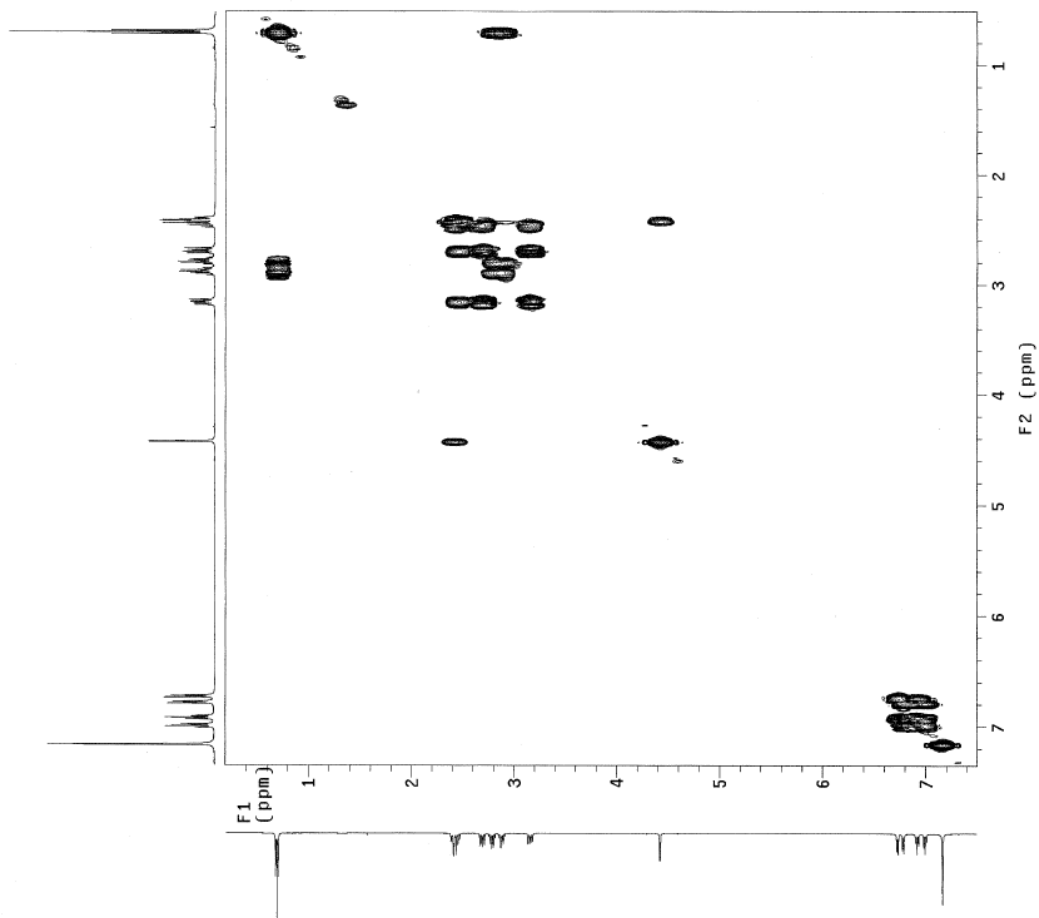
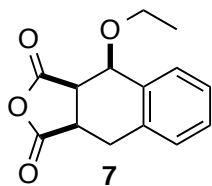




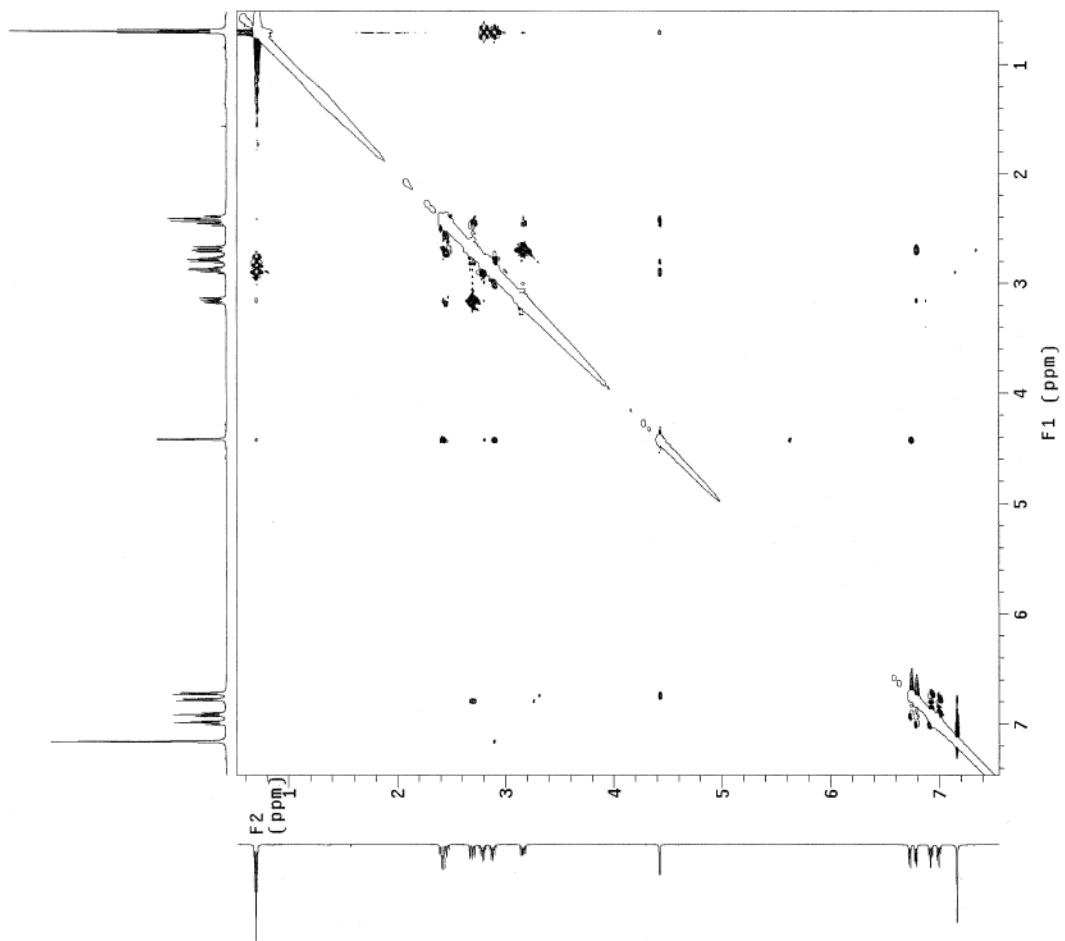
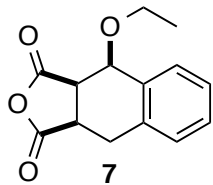


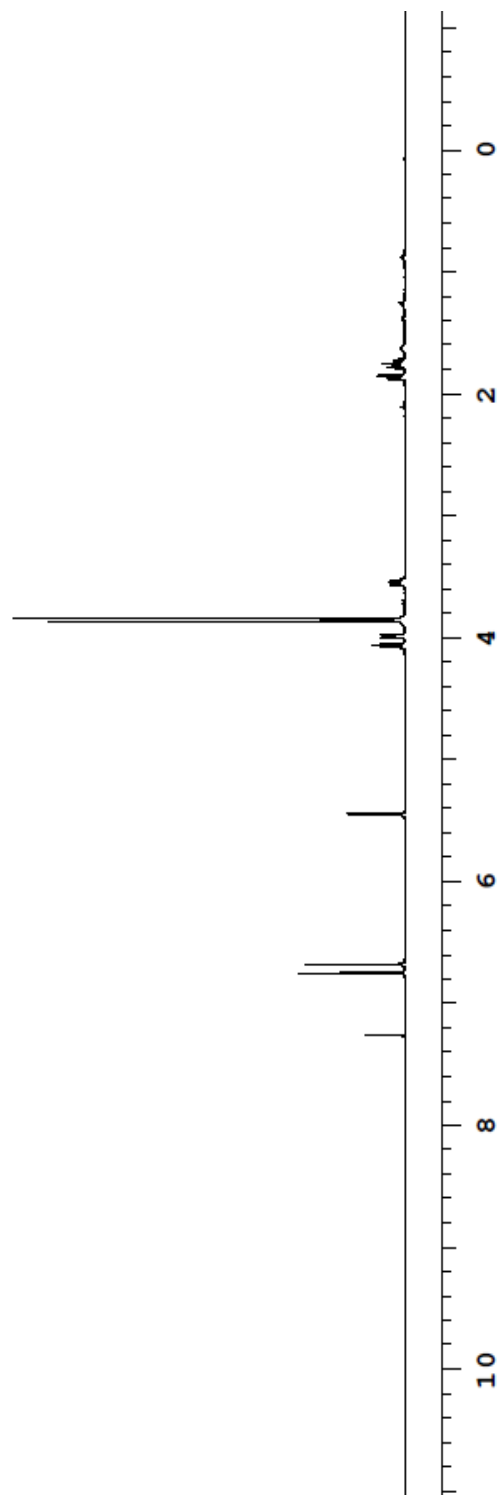
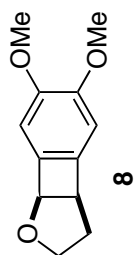


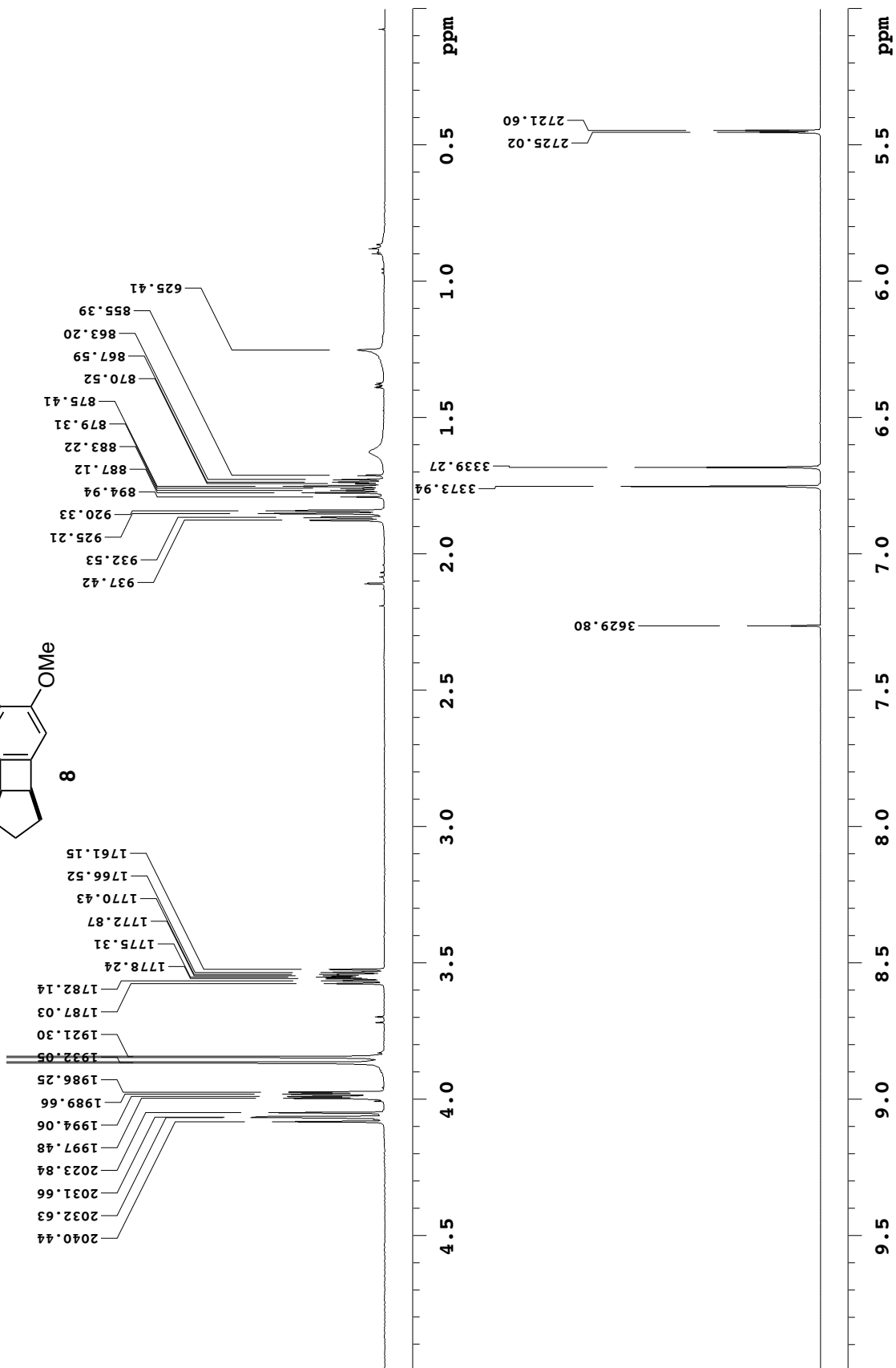
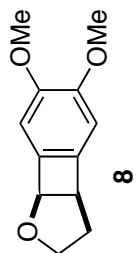
gCOSY spectrum of compound 7 in C<sub>6</sub>D<sub>6</sub>

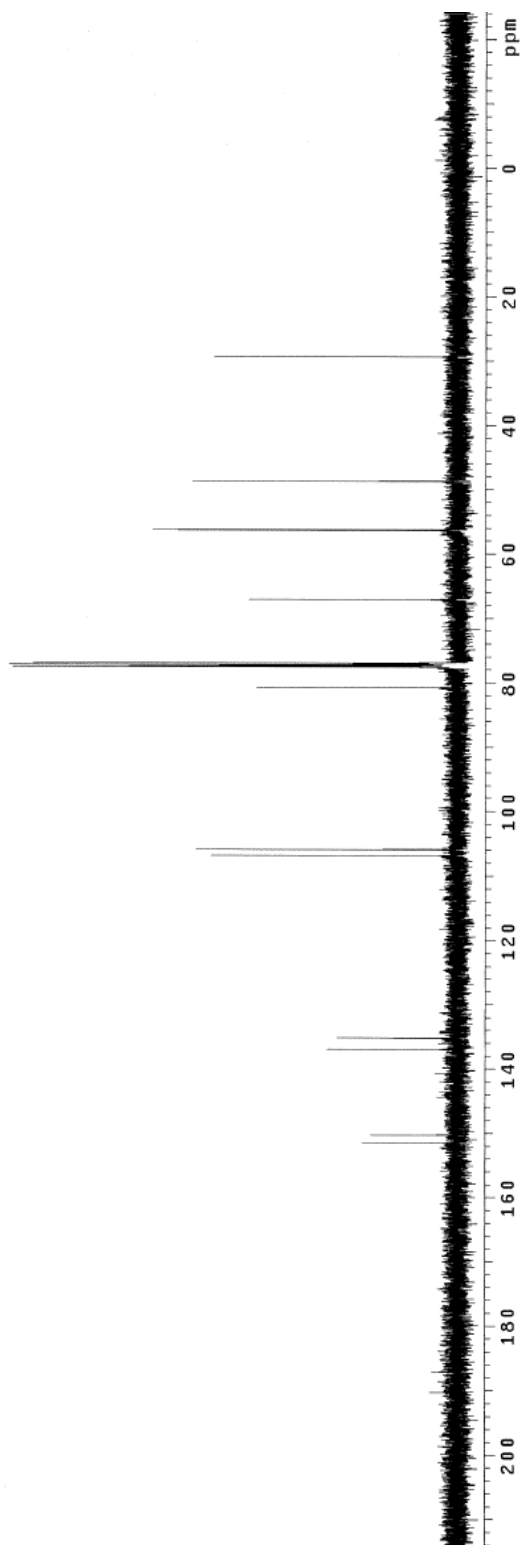
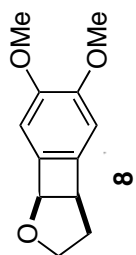


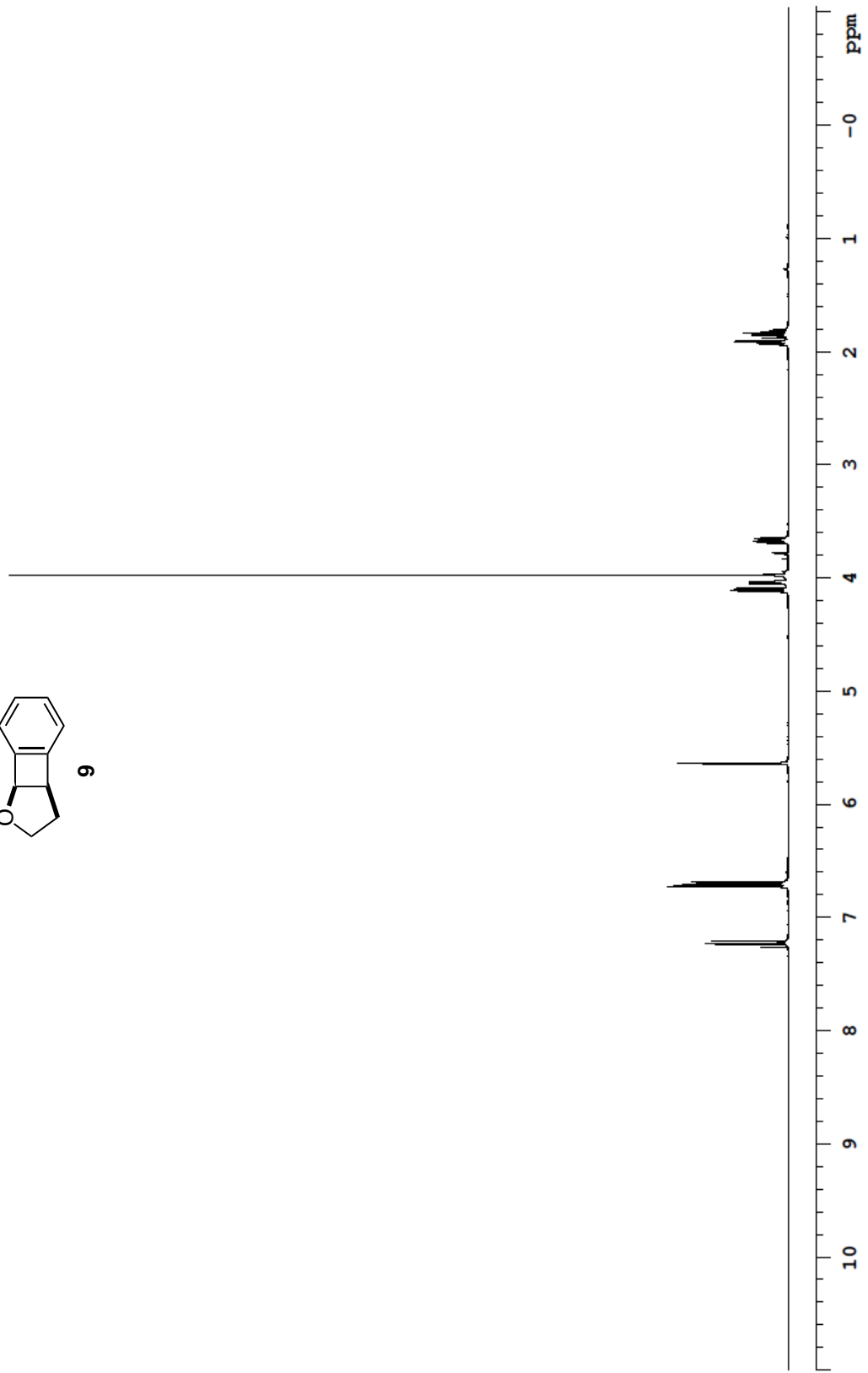
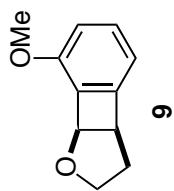
NOESY spectrum of compound **7** in C<sub>6</sub>D<sub>6</sub>

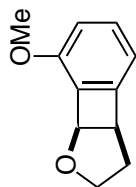




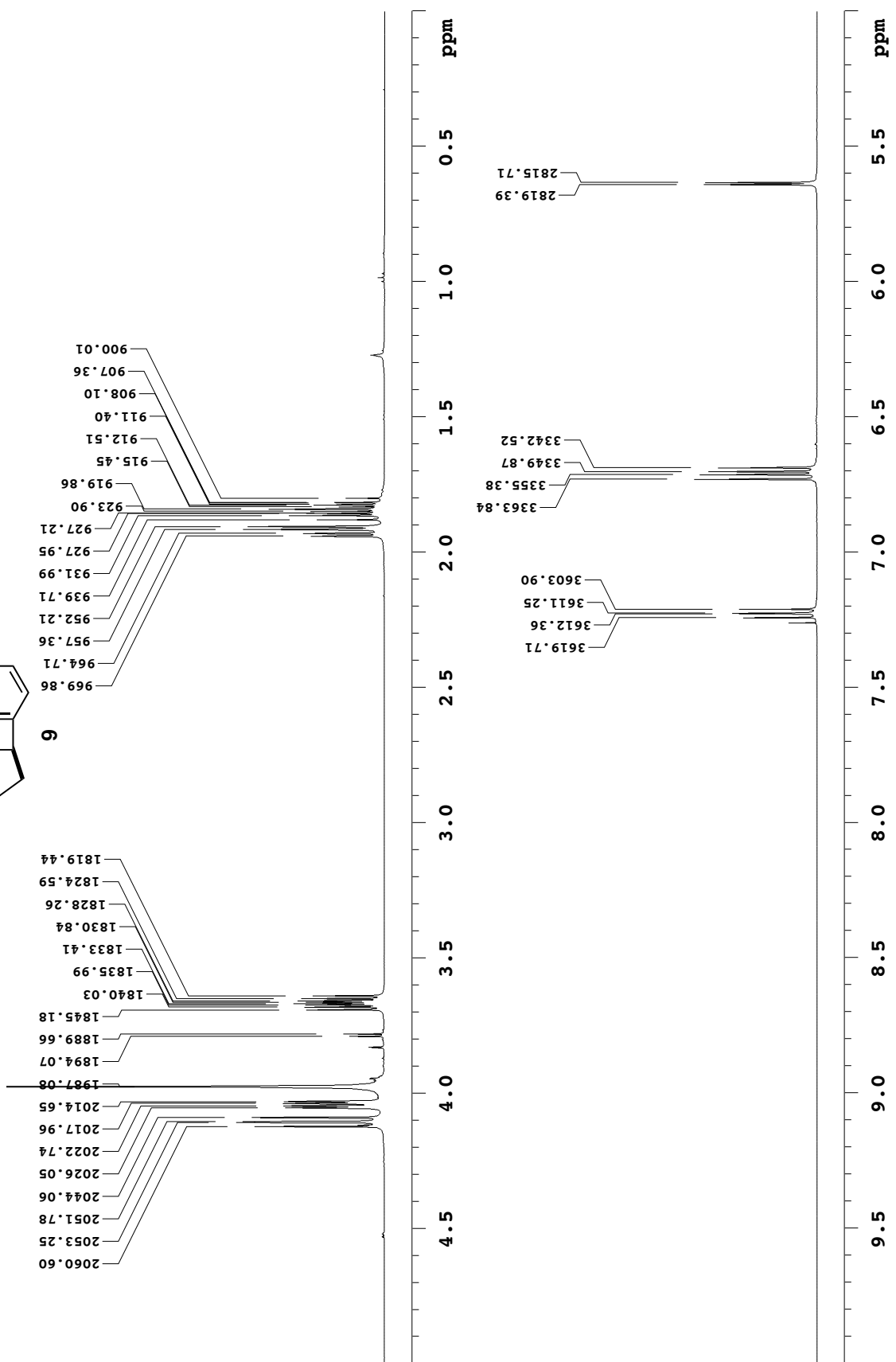




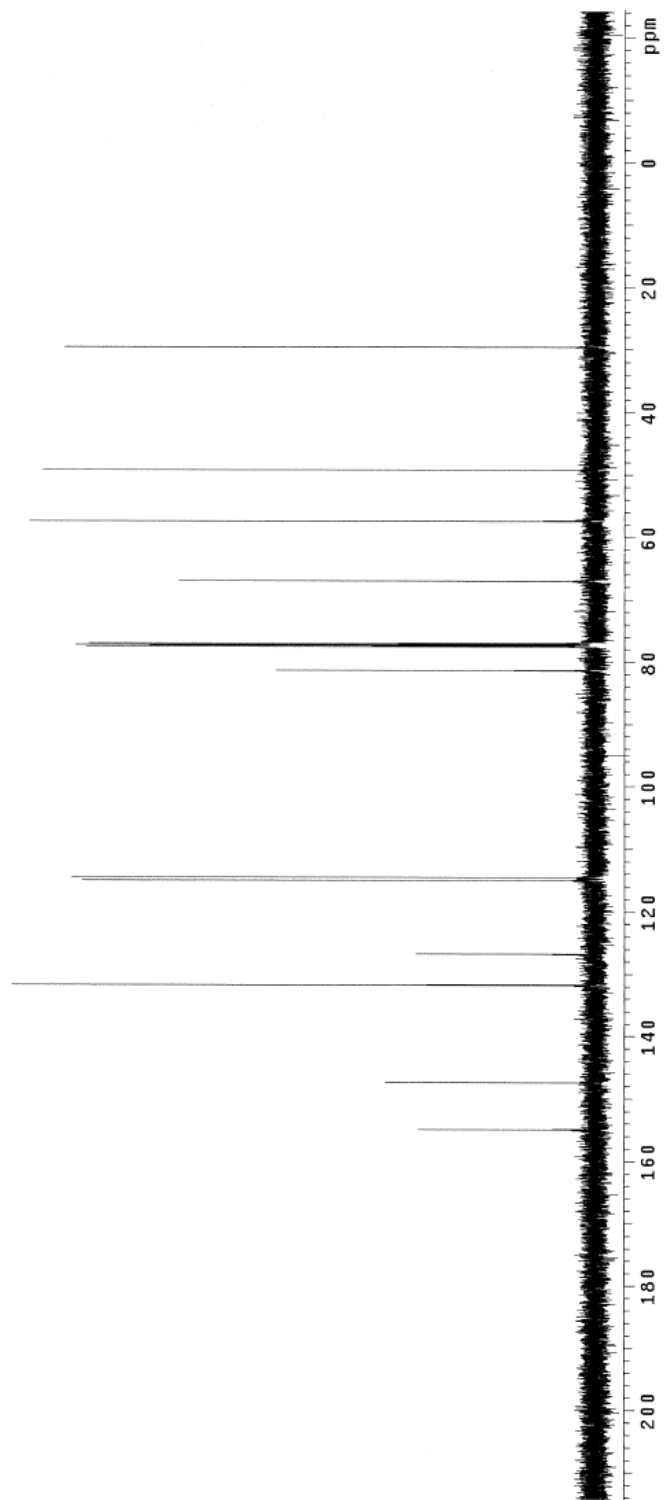
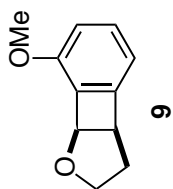




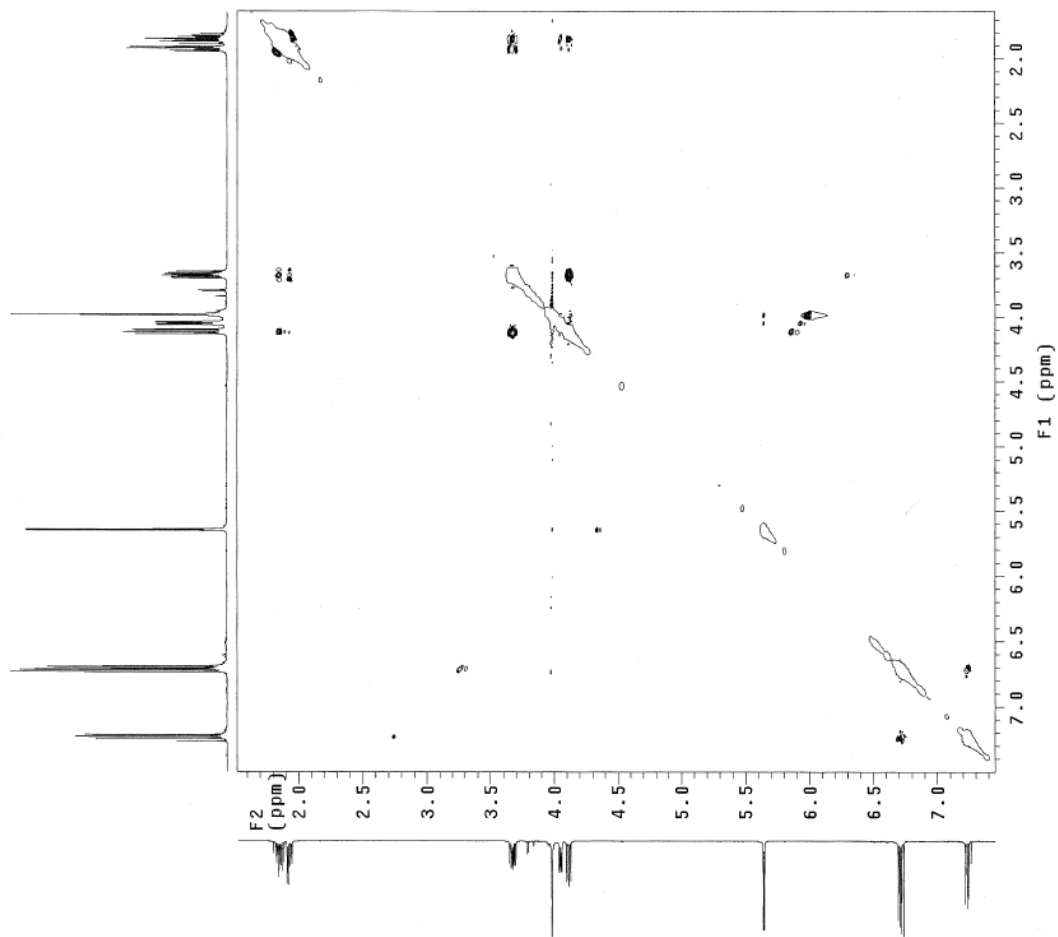
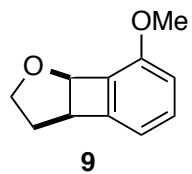
**6**



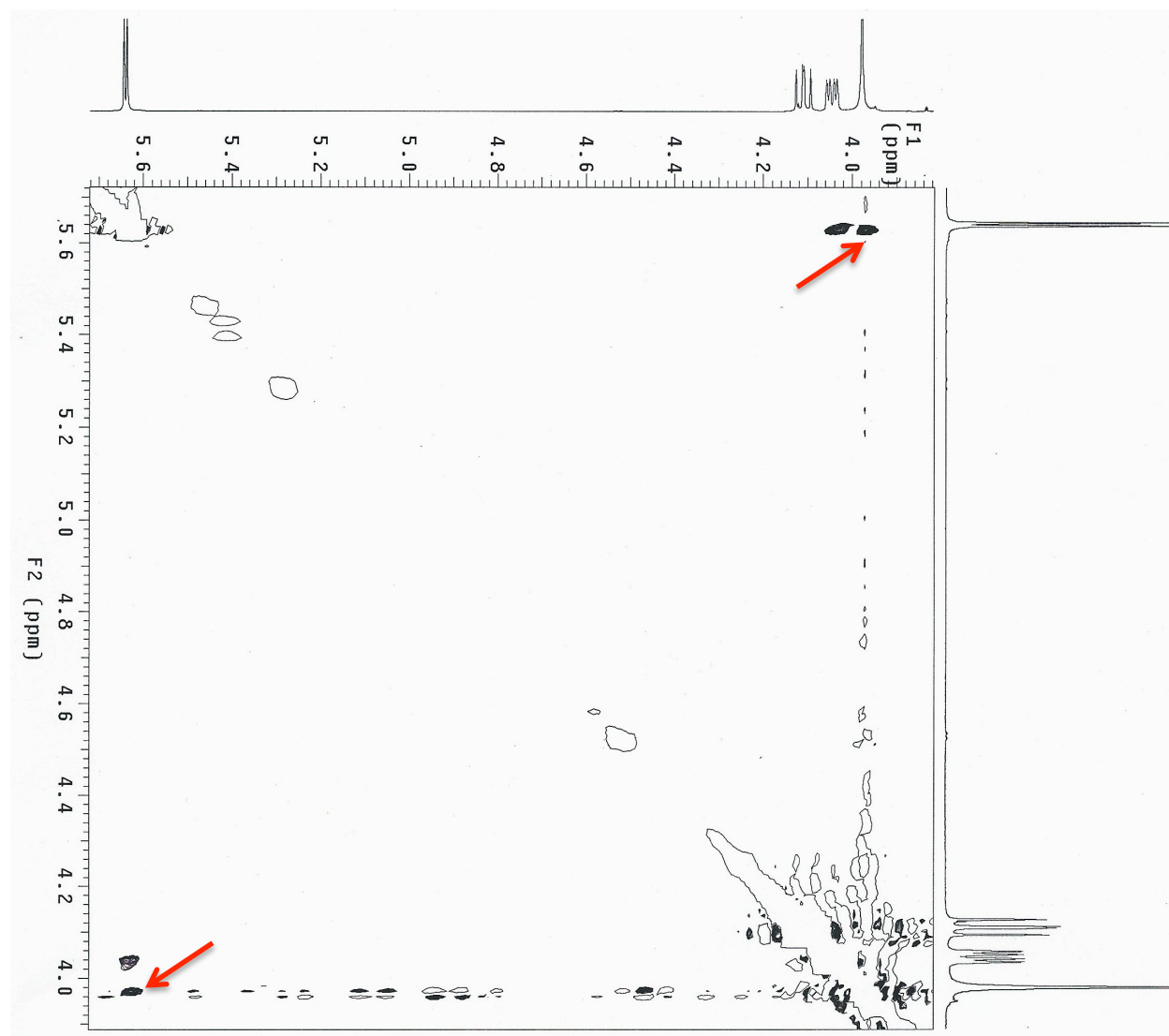
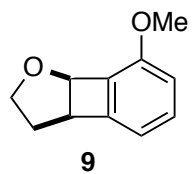


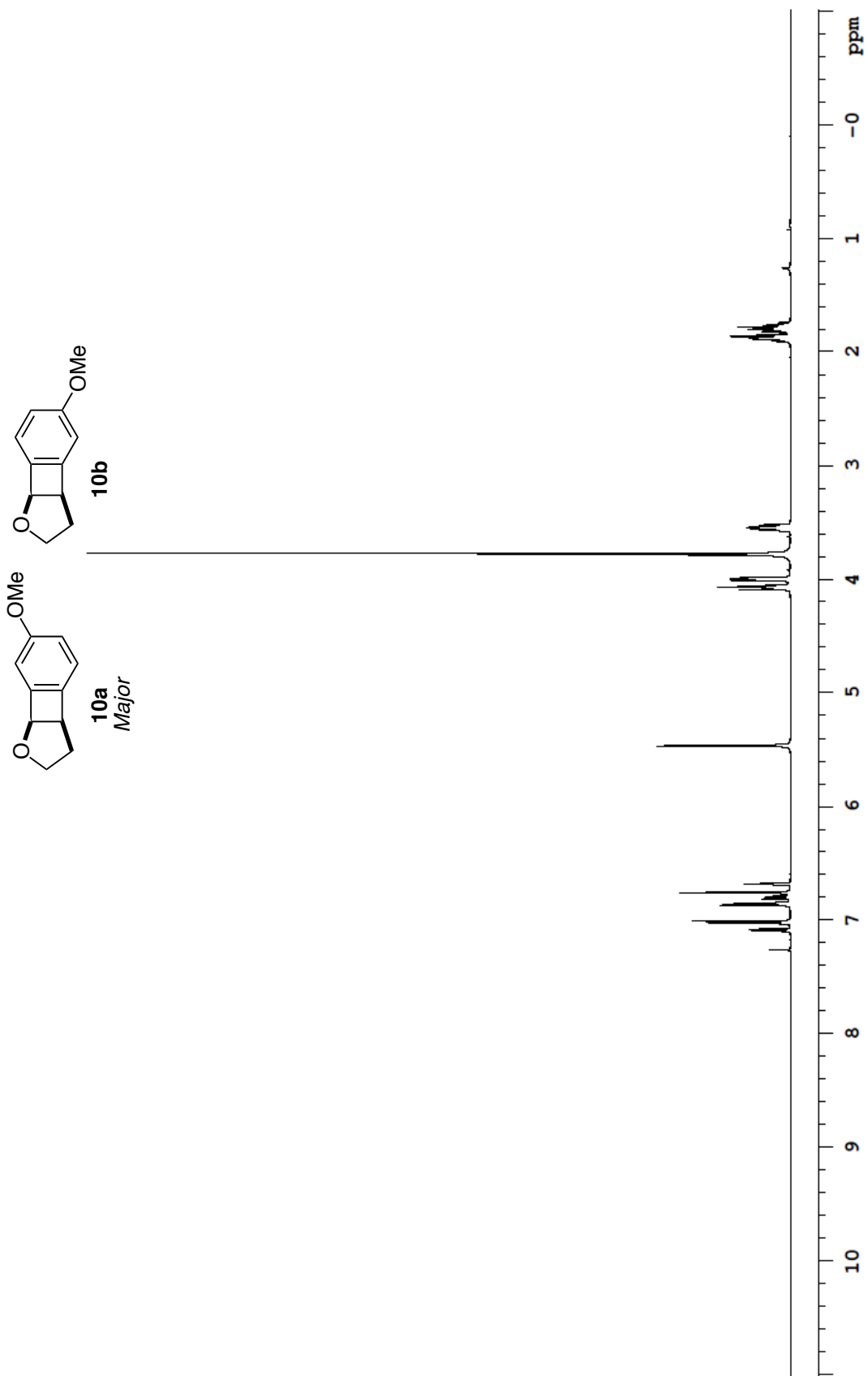


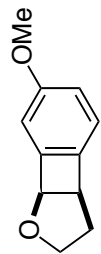
NOESY spectrum of compound **9** in CDCl<sub>3</sub>



Expanded NOESY spectrum of compound **9** in CDCl<sub>3</sub>

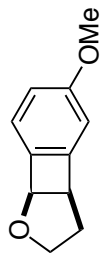






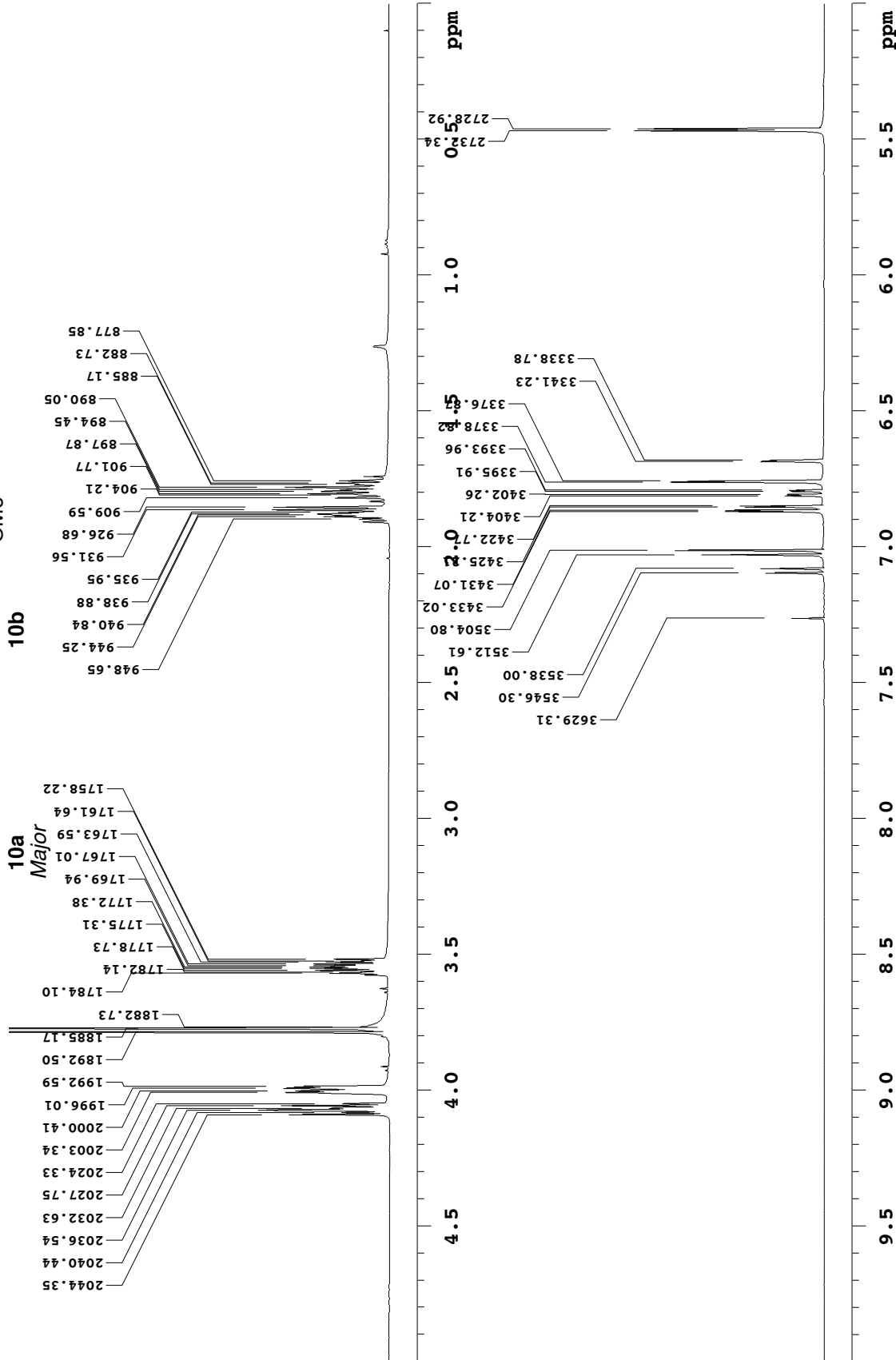
**10a**  
Major

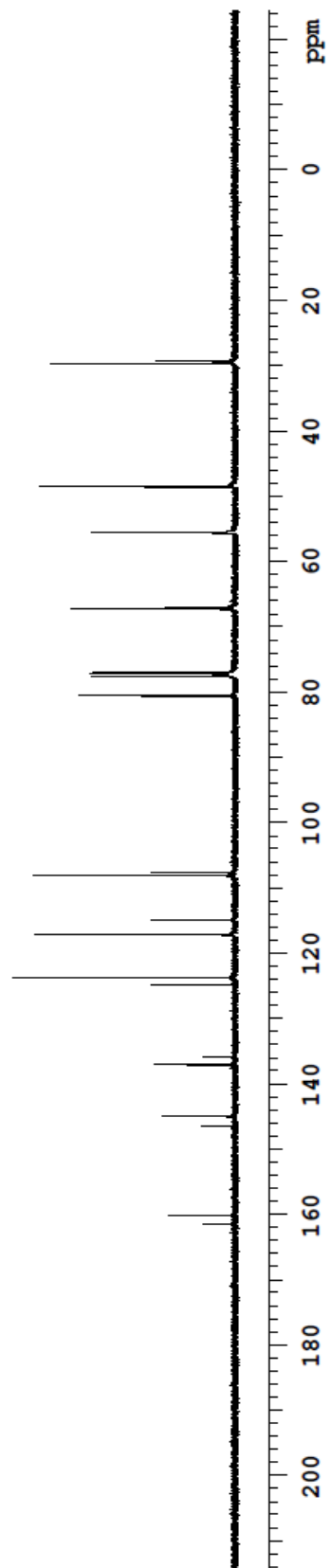
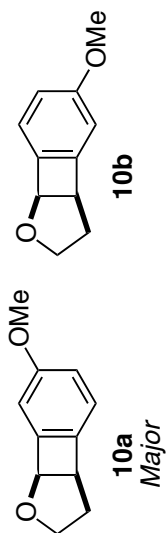
2044.35  
2040.44  
2036.54  
2032.63  
2027.75  
2024.33  
2003.34  
2000.41  
1996.01  
1992.59  
1892.50  
1885.17  
1882.73  
1784.10  
1782.14  
1778.73  
1775.31  
1772.38  
1769.94  
1767.01  
1763.59  
1761.64  
1758.22



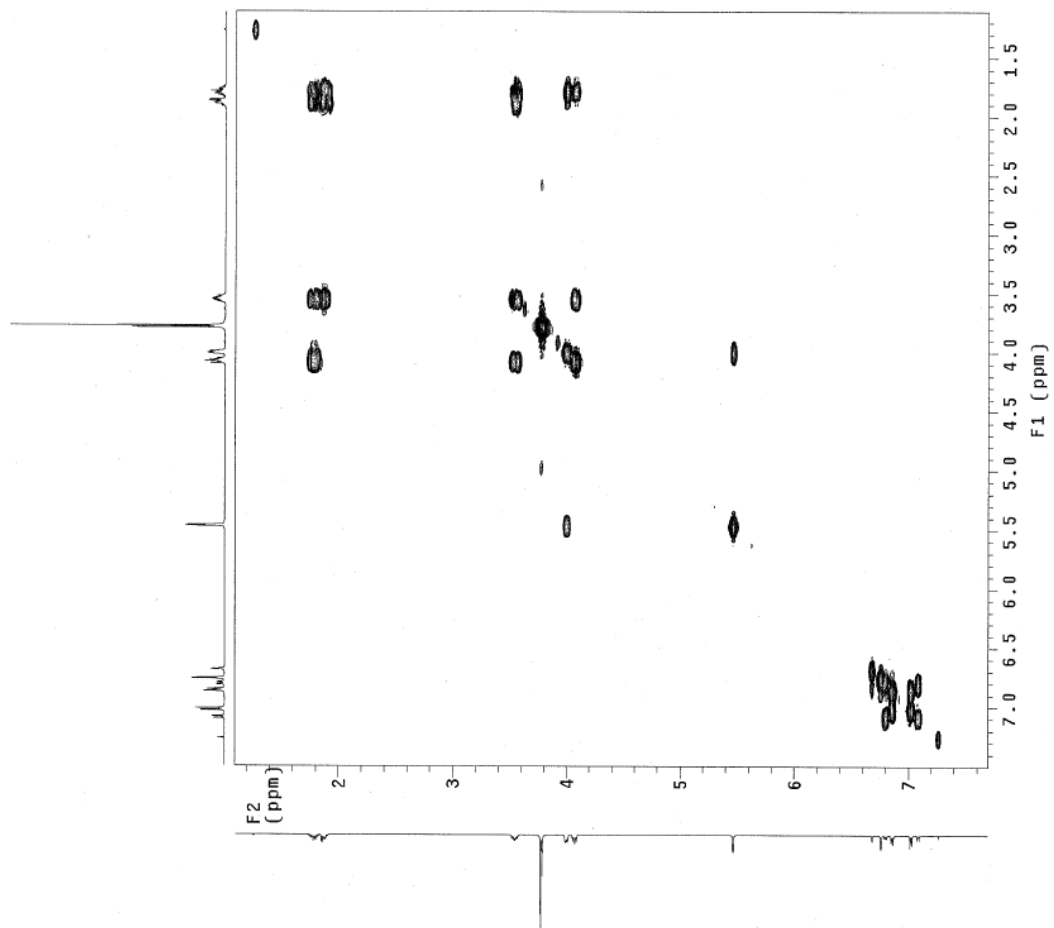
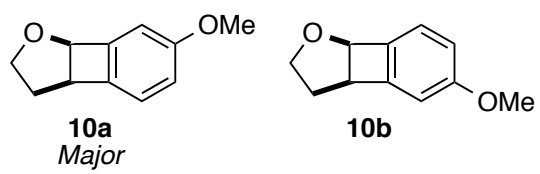
**10b**

948.65  
944.25  
940.84  
938.88  
935.95  
931.56  
926.68  
909.59  
904.21  
901.77  
897.87  
894.45  
890.05  
885.17  
882.73  
877.85

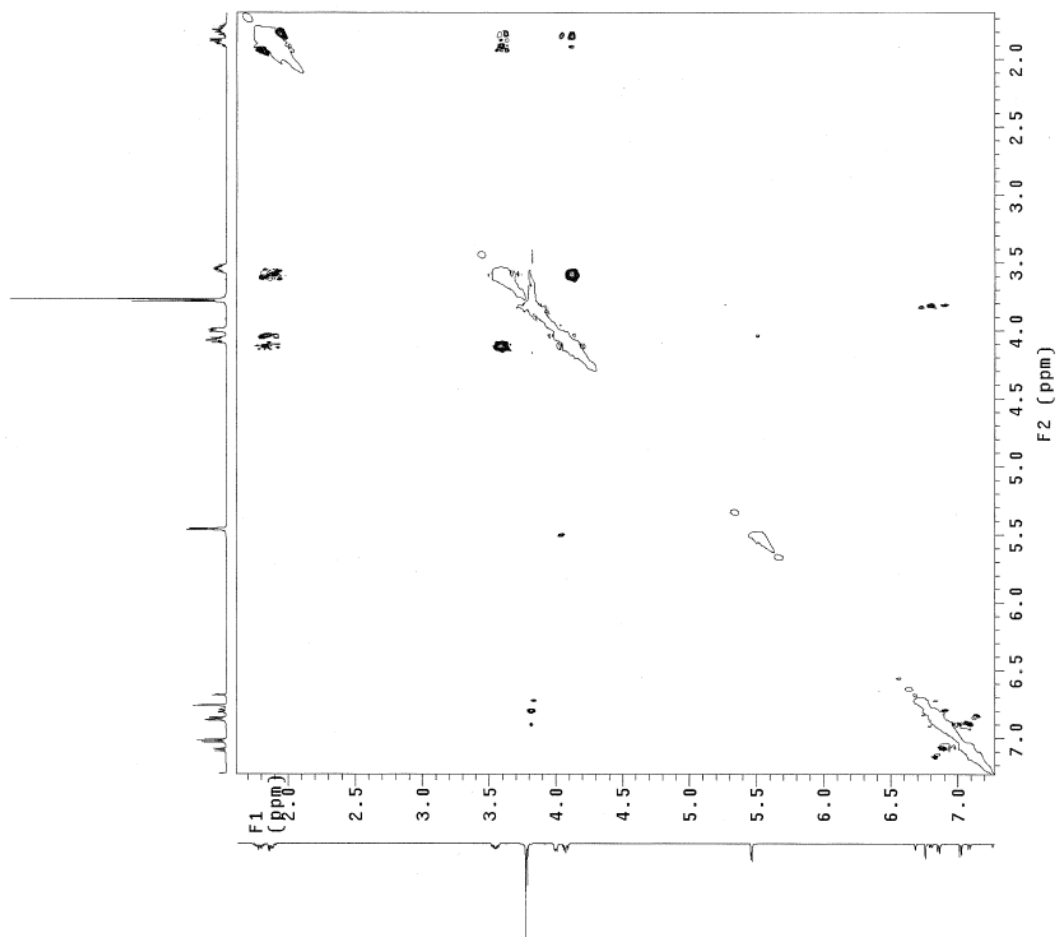
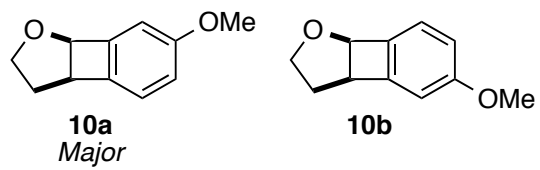




gCOSY spectrum of isomers **10a** + **10b** in CDCl<sub>3</sub>

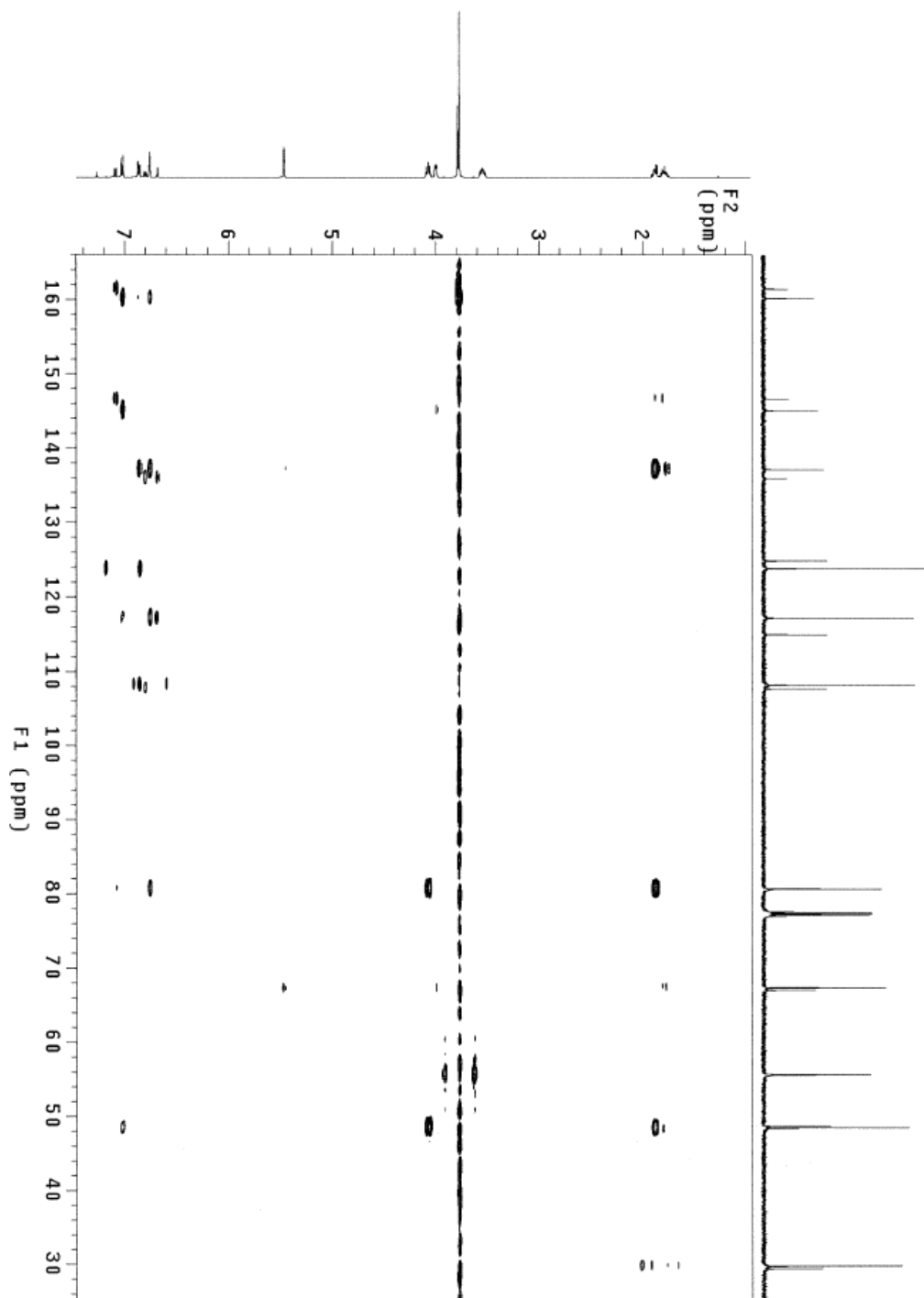
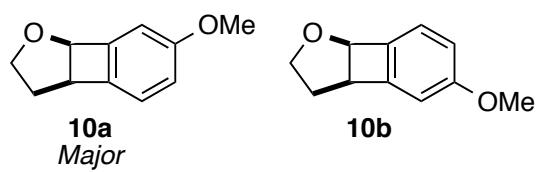


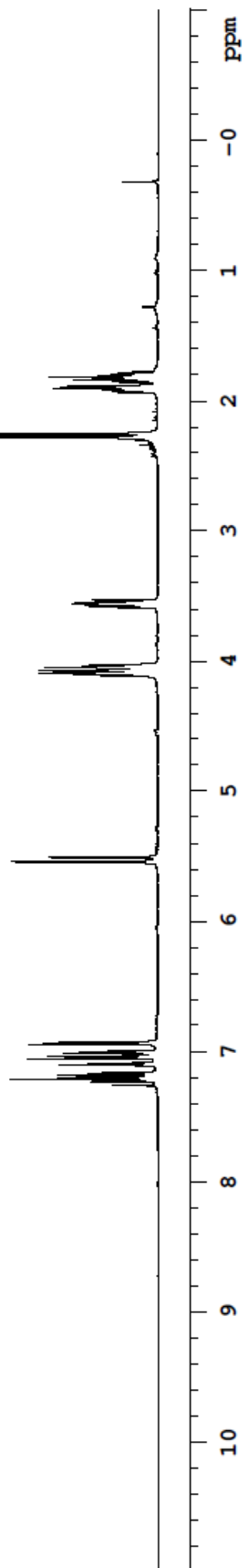
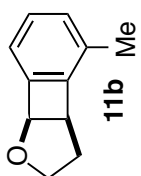
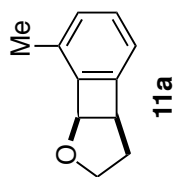
NOESY spectrum of isomers **10a** + **10b** in CDCl<sub>3</sub>

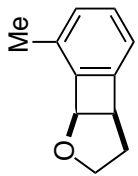




HMBC spectrum of isomers **10a** + **10b** in CDCl<sub>3</sub>

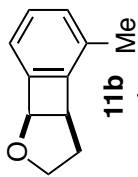






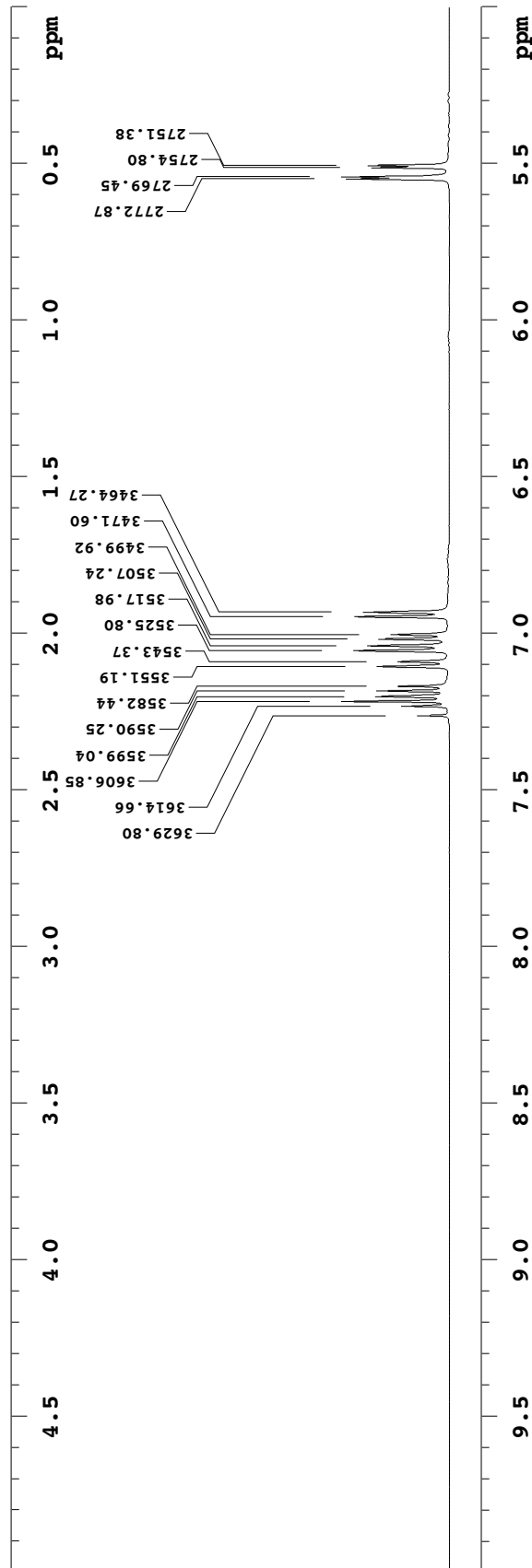
11a

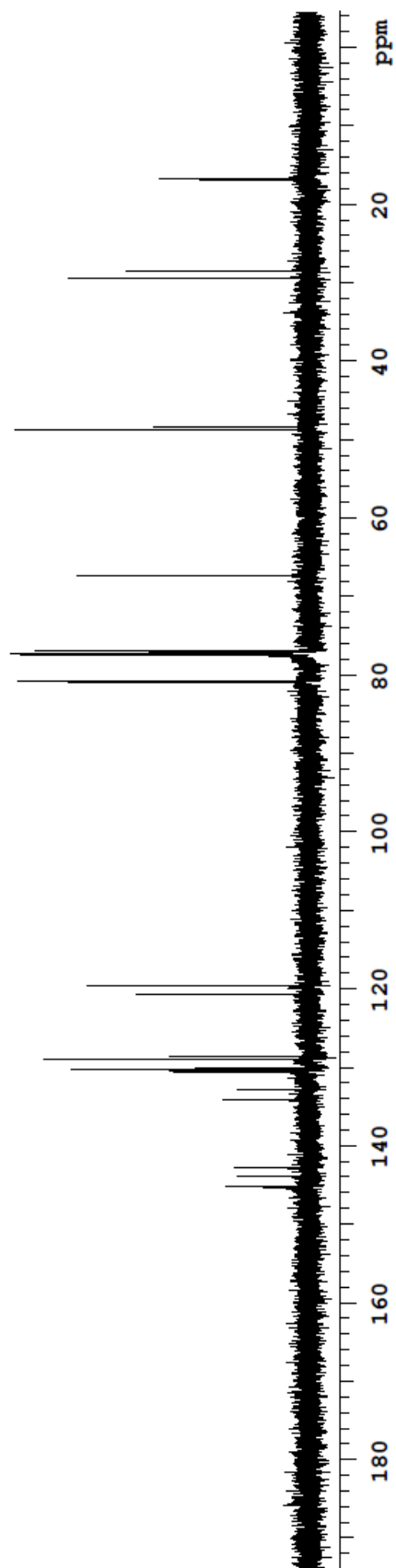
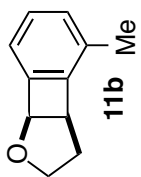
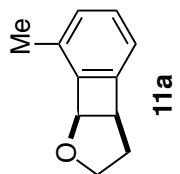
2057.53  
2053.14  
2048.75  
2044.84  
2040.93  
2036.54  
2032.63  
2024.82  
2021.89  
2017.01  
2013.59  
1792.40  
1787.52  
1783.61  
1780.68  
1778.24  
1775.80  
1771.89  
1766.52

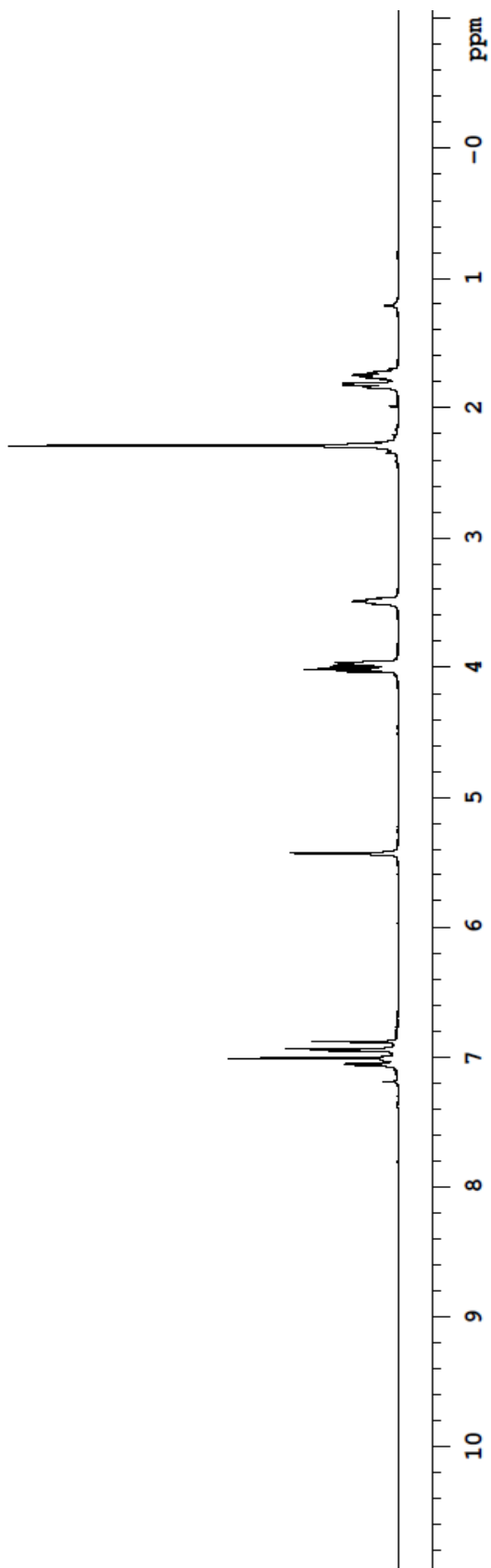
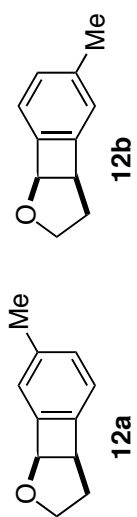


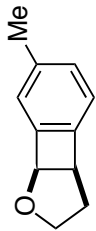
11b Me

1140.54  
1126.38  
967.20  
961.83  
958.90  
954.51  
949.62  
946.69  
941.32  
928.14  
920.33  
915.93  
913.00  
908.12  
900.31  
896.40



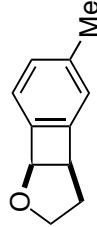






12a

2048.97  
2040.91  
2032.48  
2025.52  
2022.22  
2018.19  
2014.53  
1791.05  
1787.76  
1785.56  
1784.09  
1781.53  
1779.33  
1776.76  
1774.20  
1772.73  
1770.54  
1767.24



12b

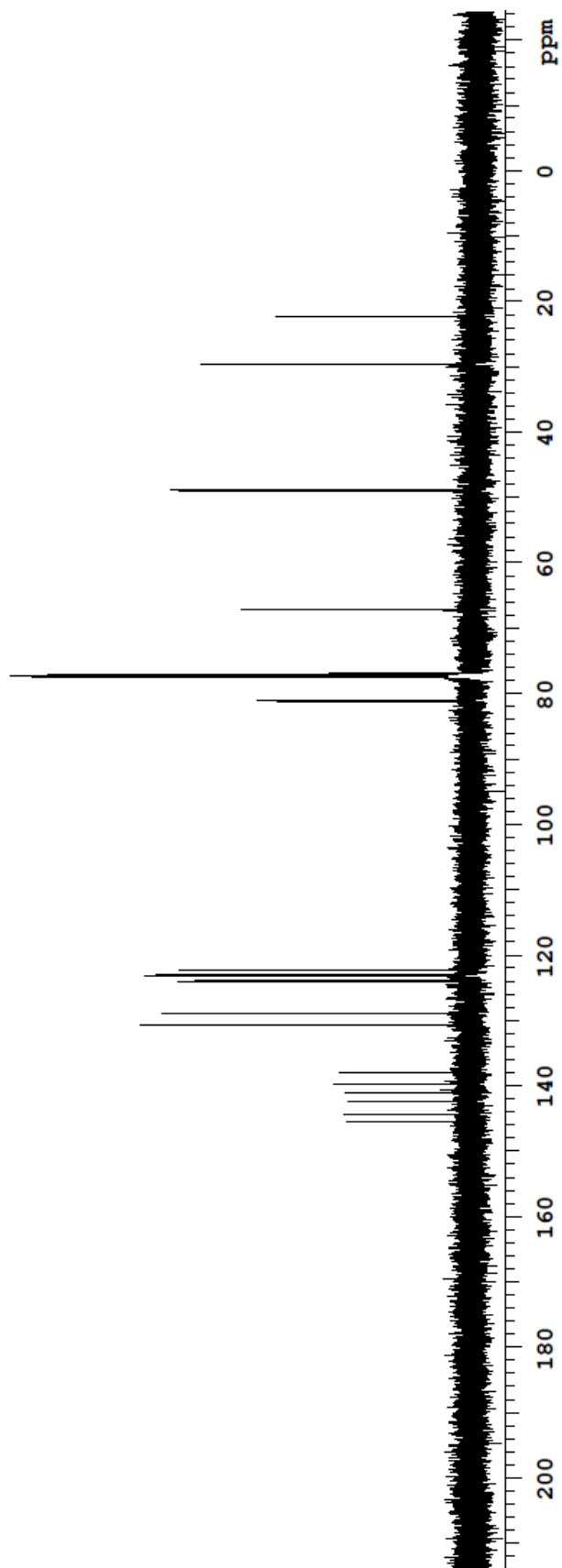
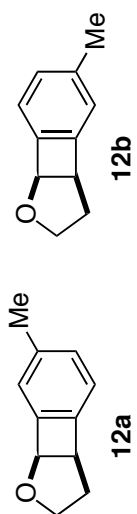
1181.43  
1176.30  
957.22  
955.39  
952.46  
950.63  
944.77  
943.30  
940.00  
918.02  
915.46  
911.06  
906.30  
903.73  
898.61  
895.67

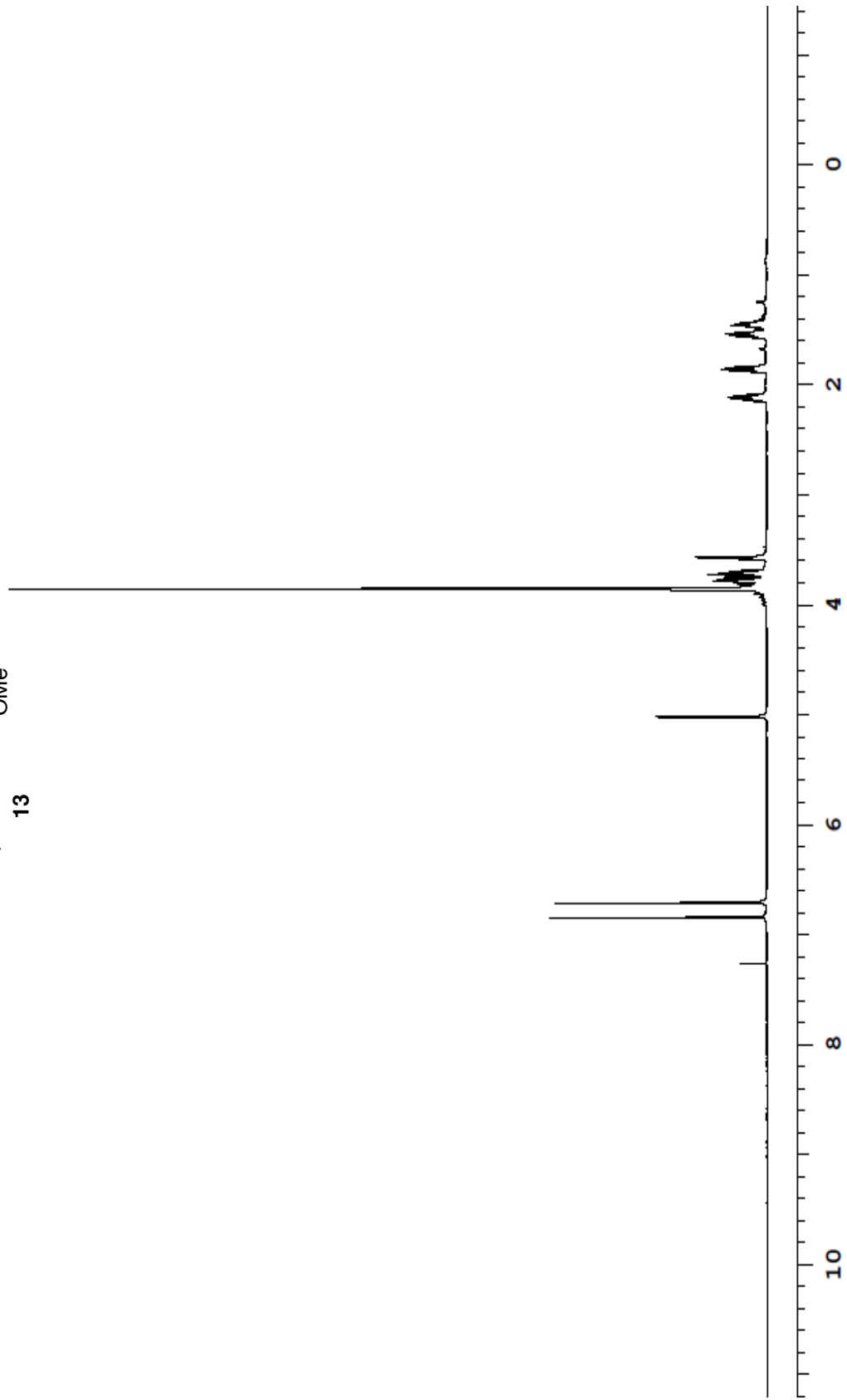
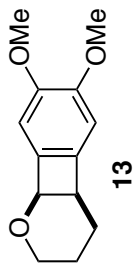
4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 ppm

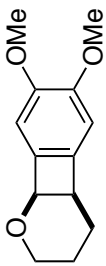
3567.89  
3560.19  
3538.58  
3509.64  
3503.04  
3474.83

2752.01  
2749.44

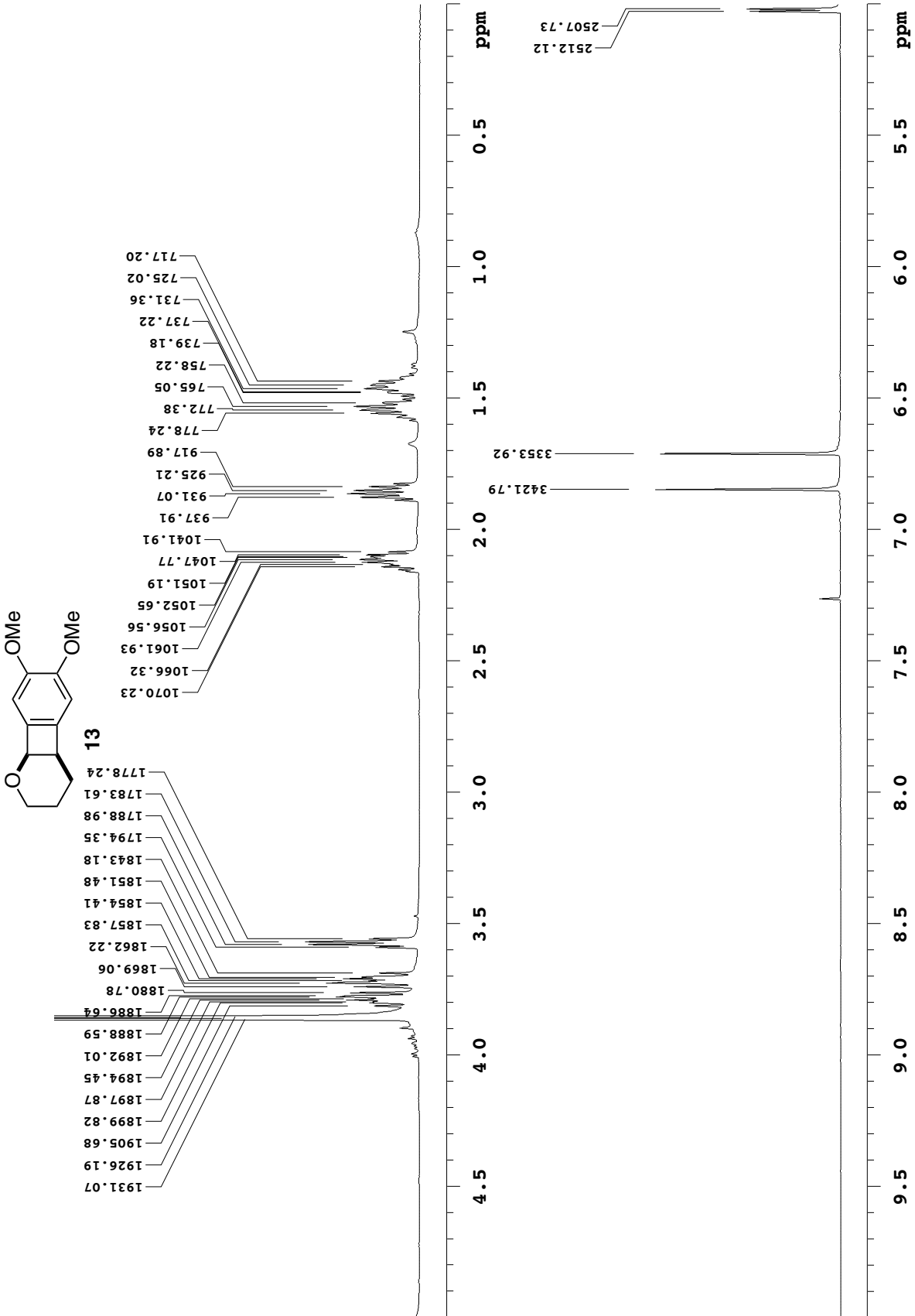


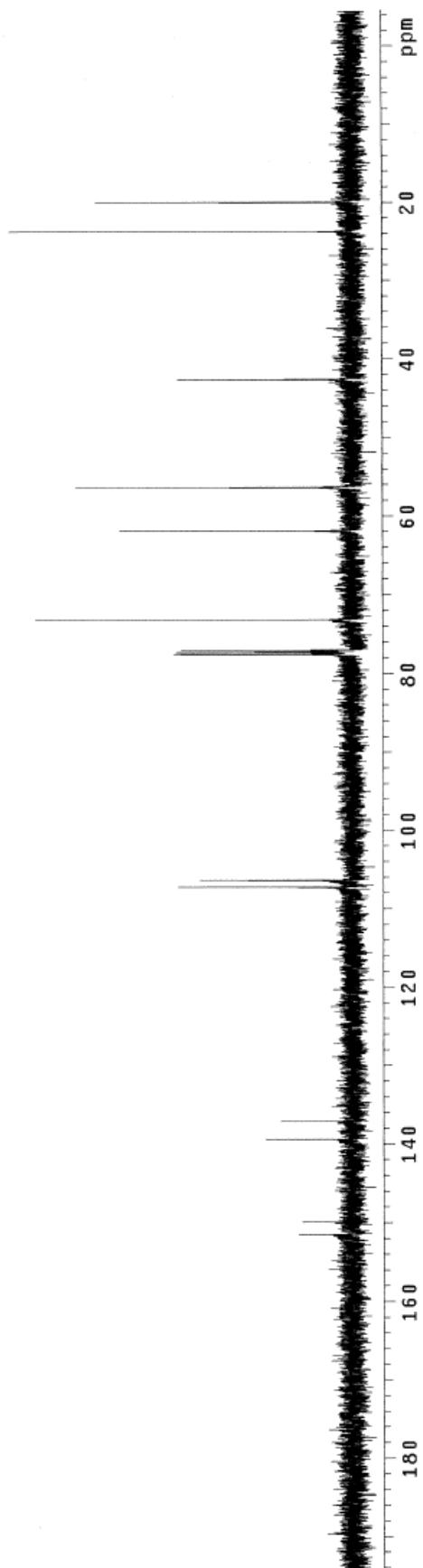
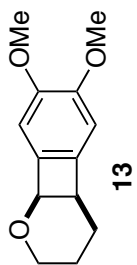


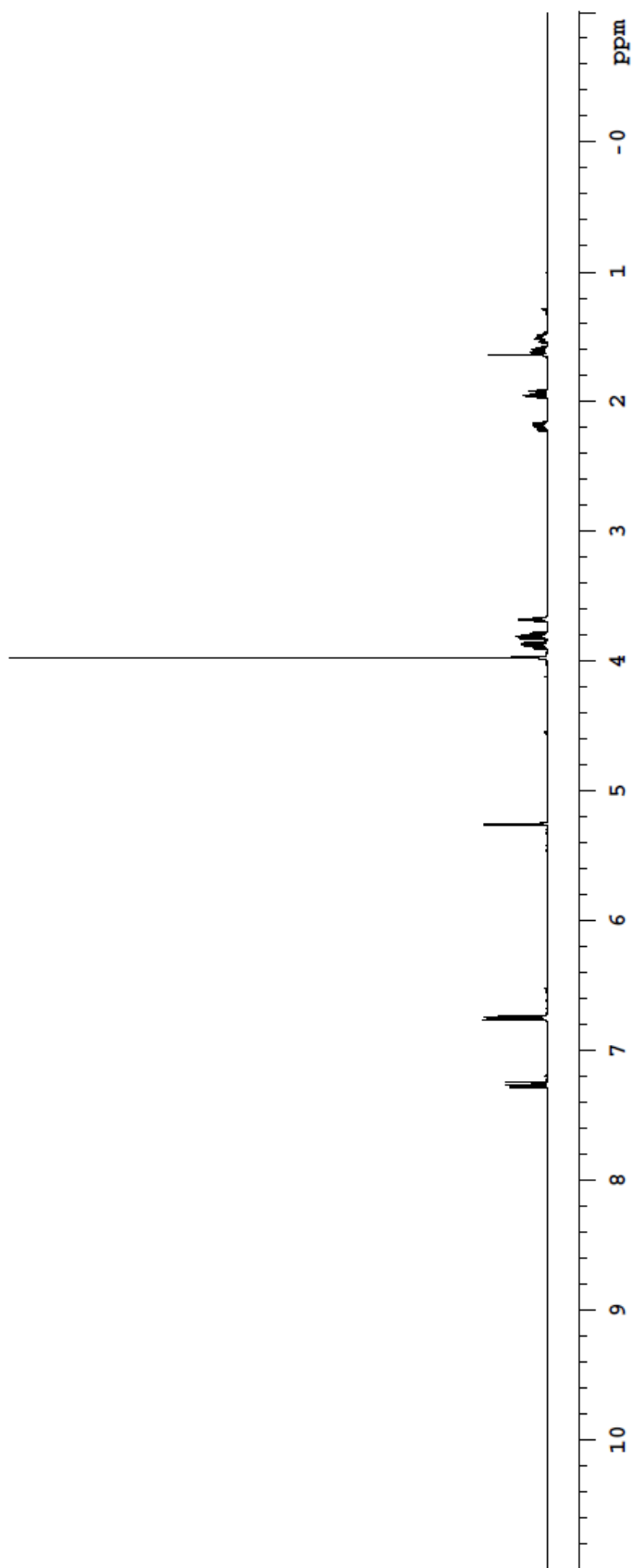
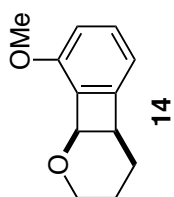


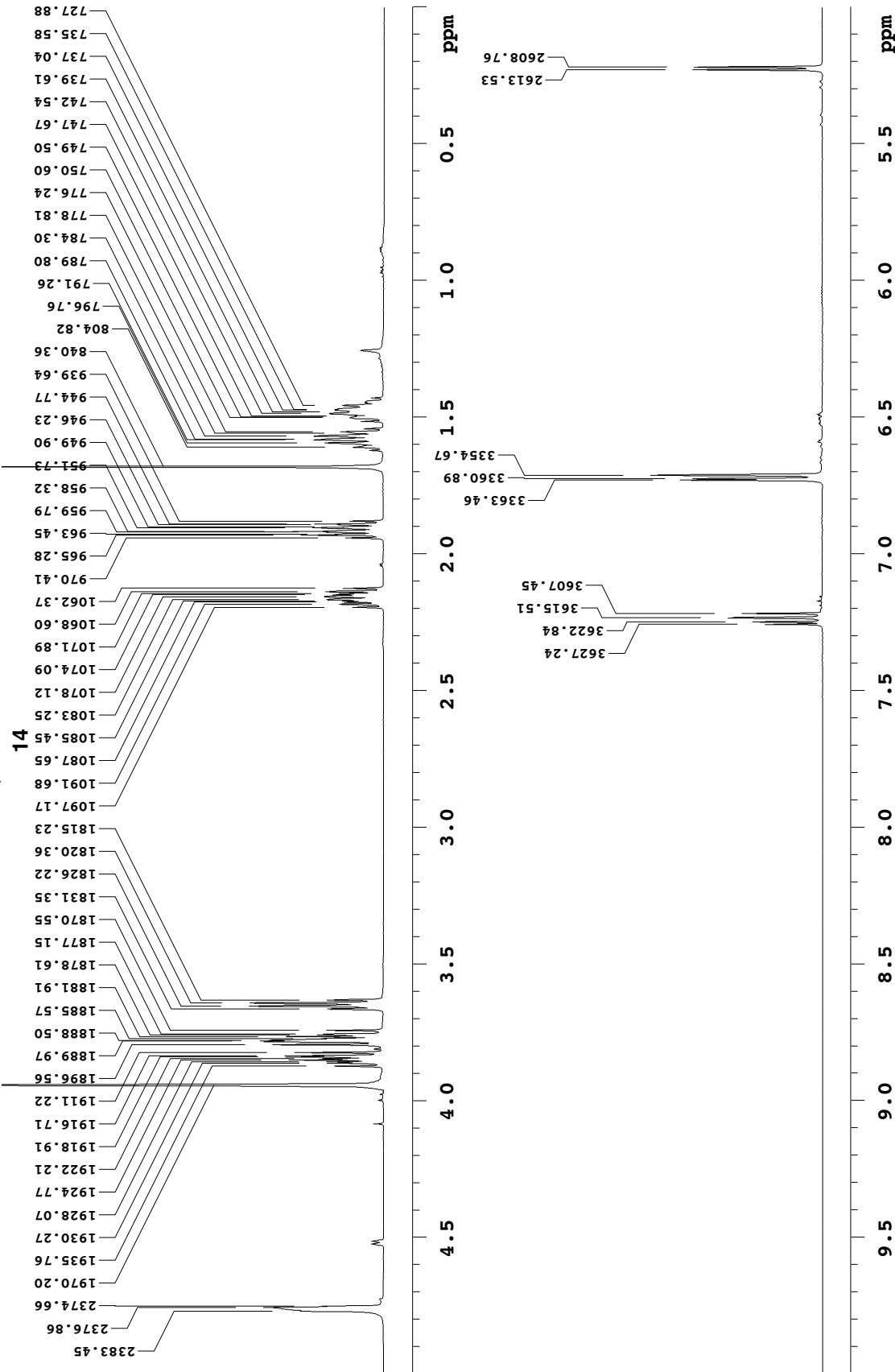
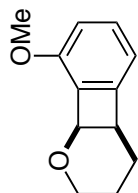


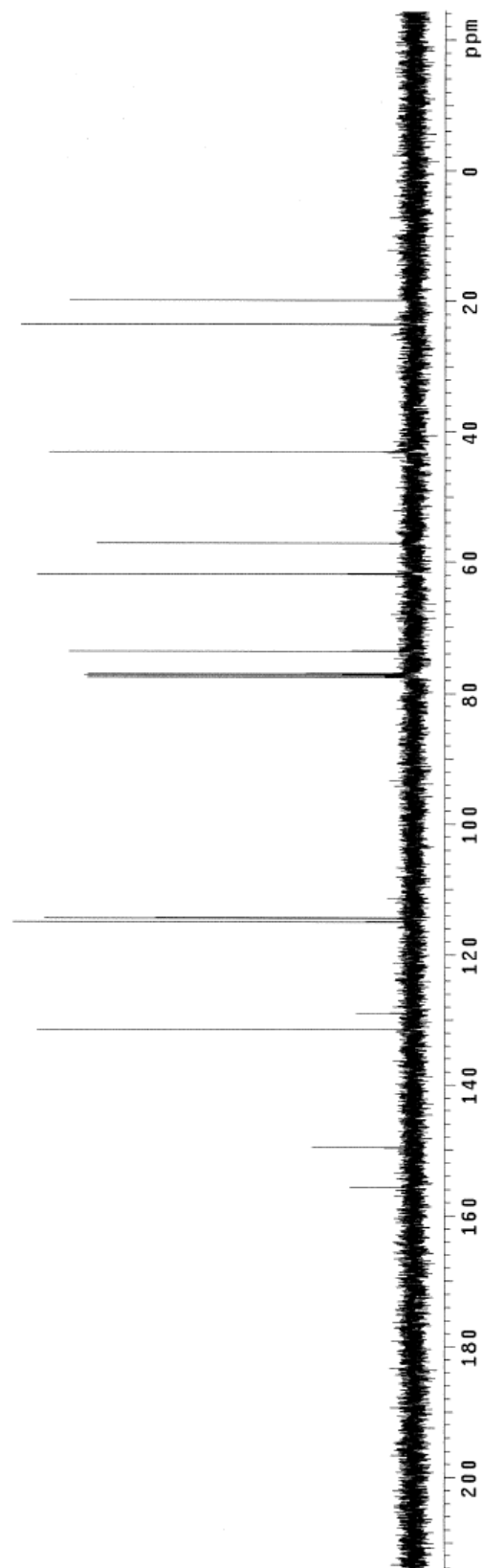
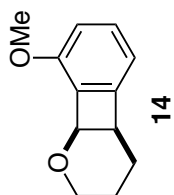
**13**



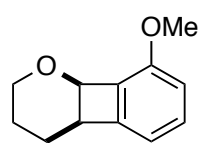




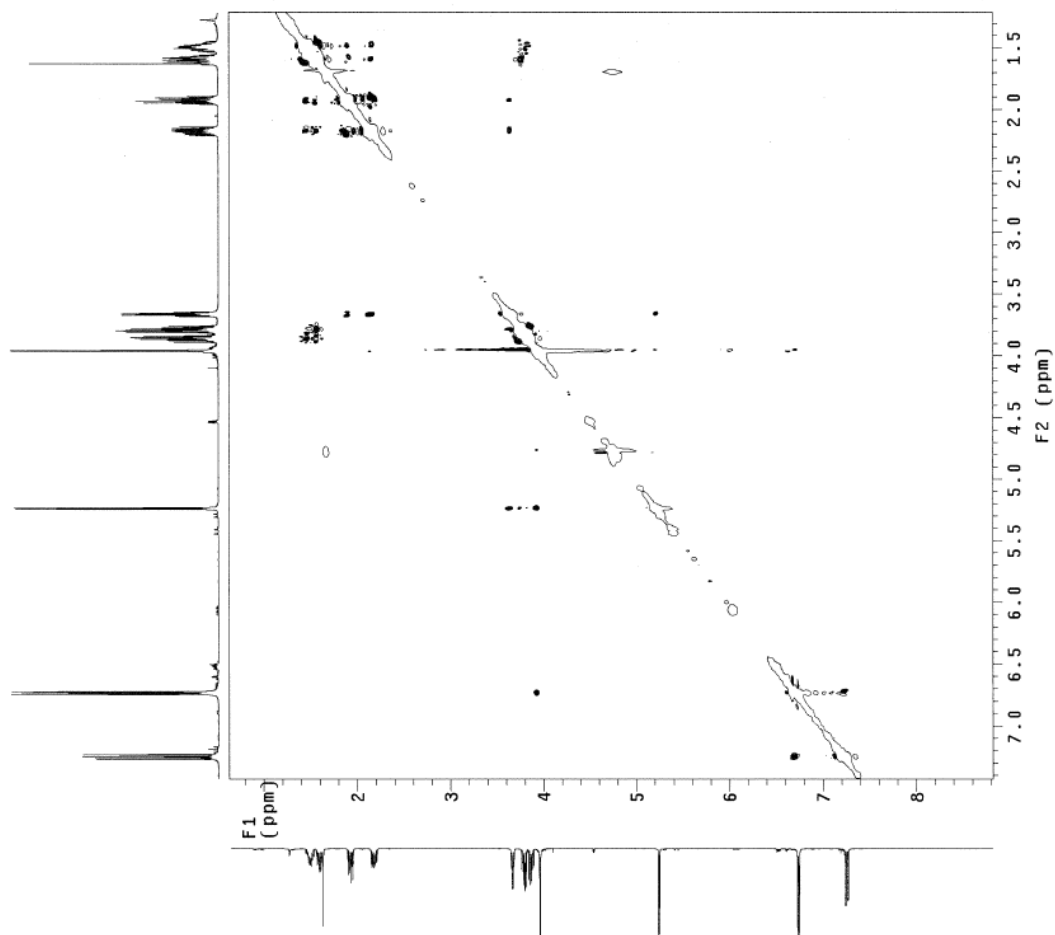




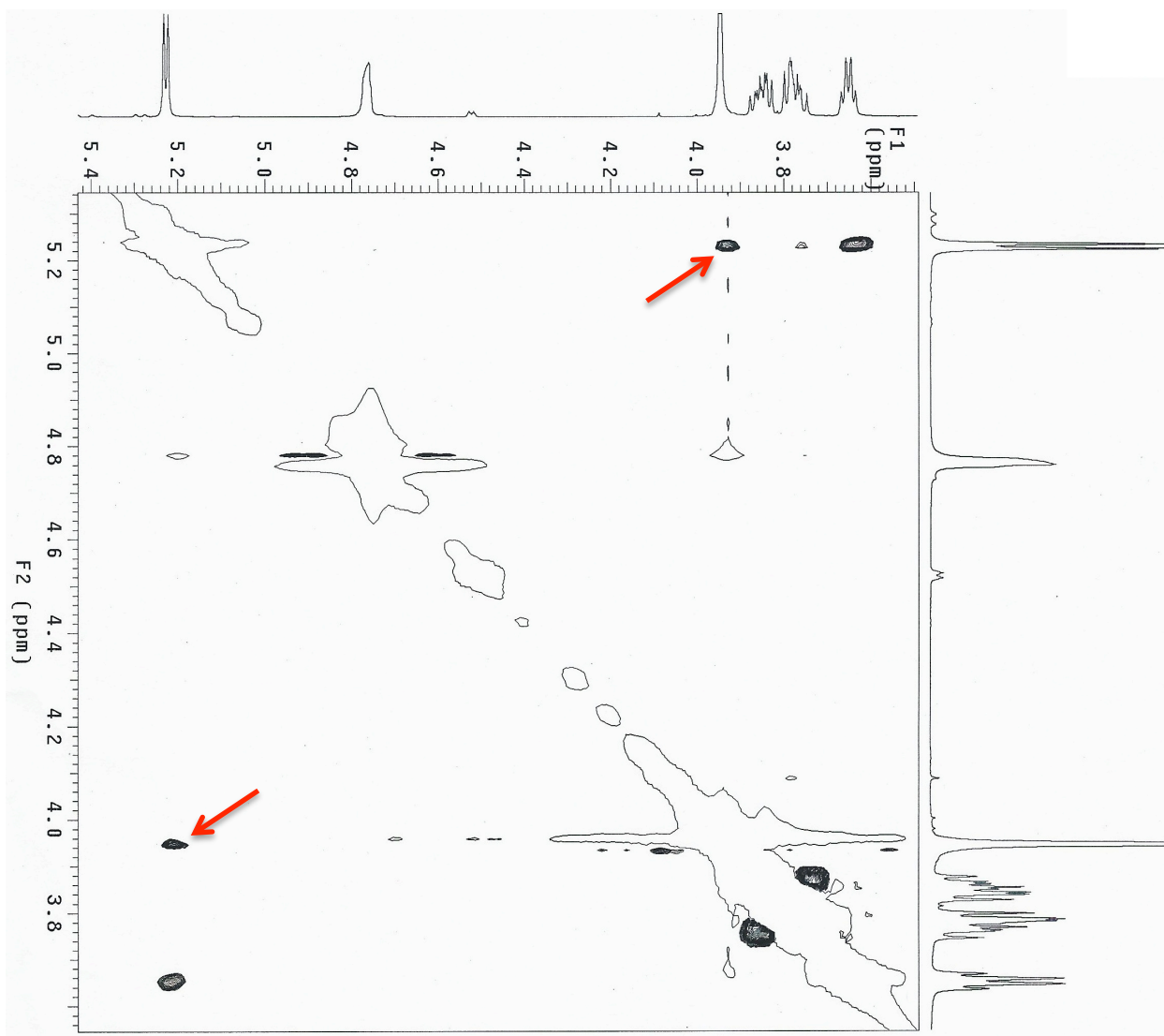
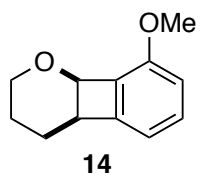
NOESY spectrum of compound **14** in CDCl<sub>3</sub>

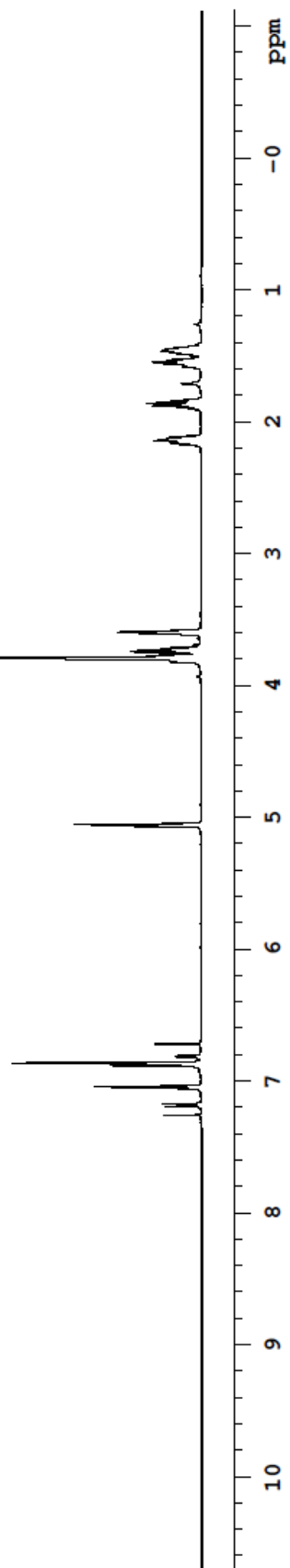
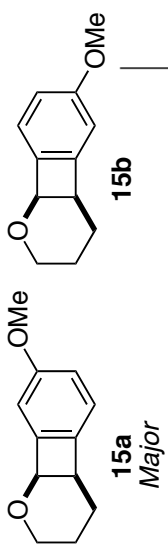


**14**

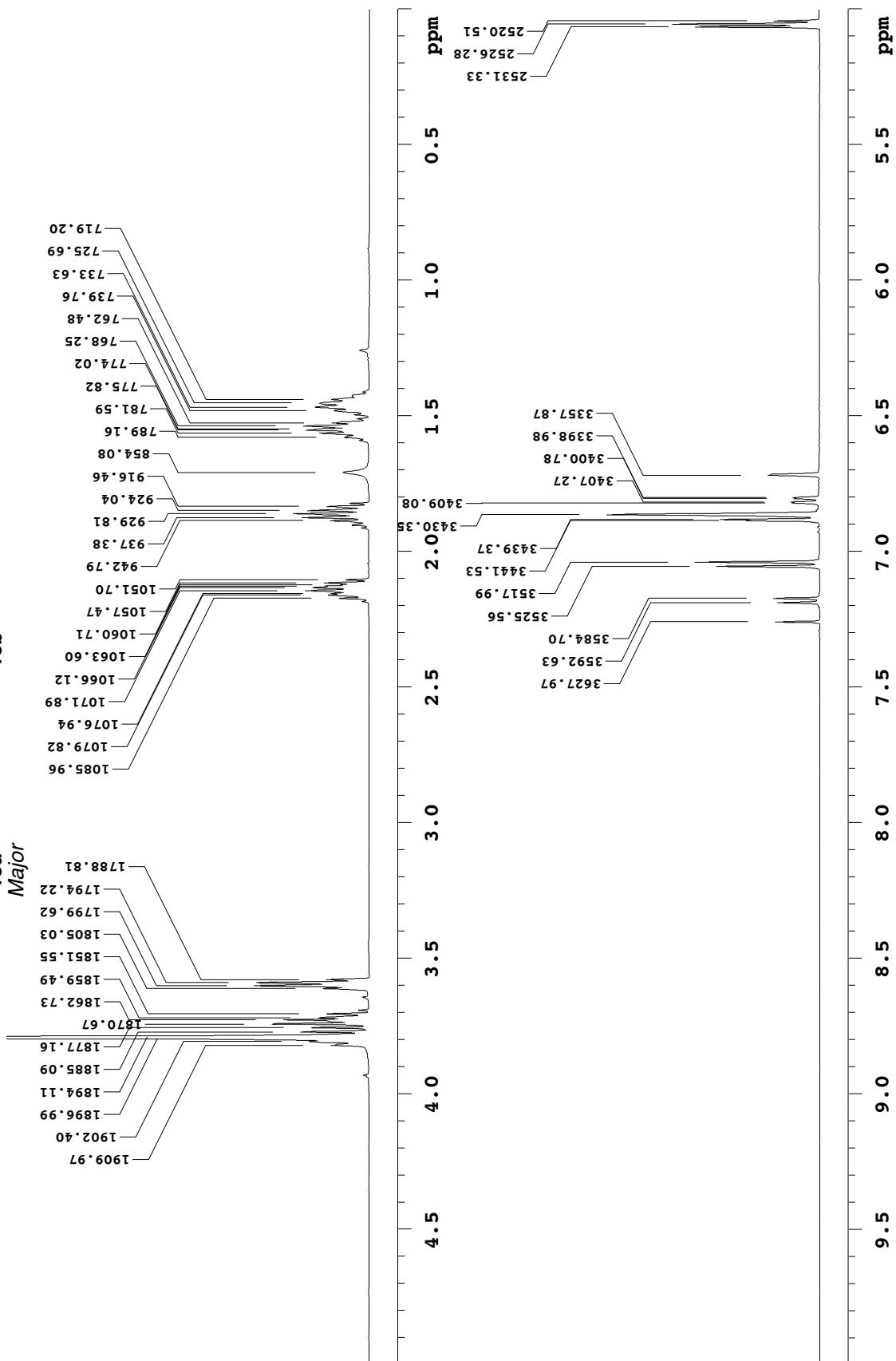
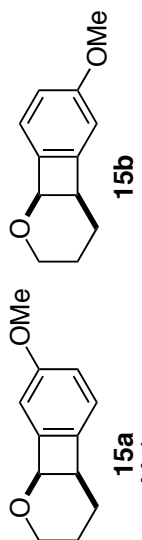


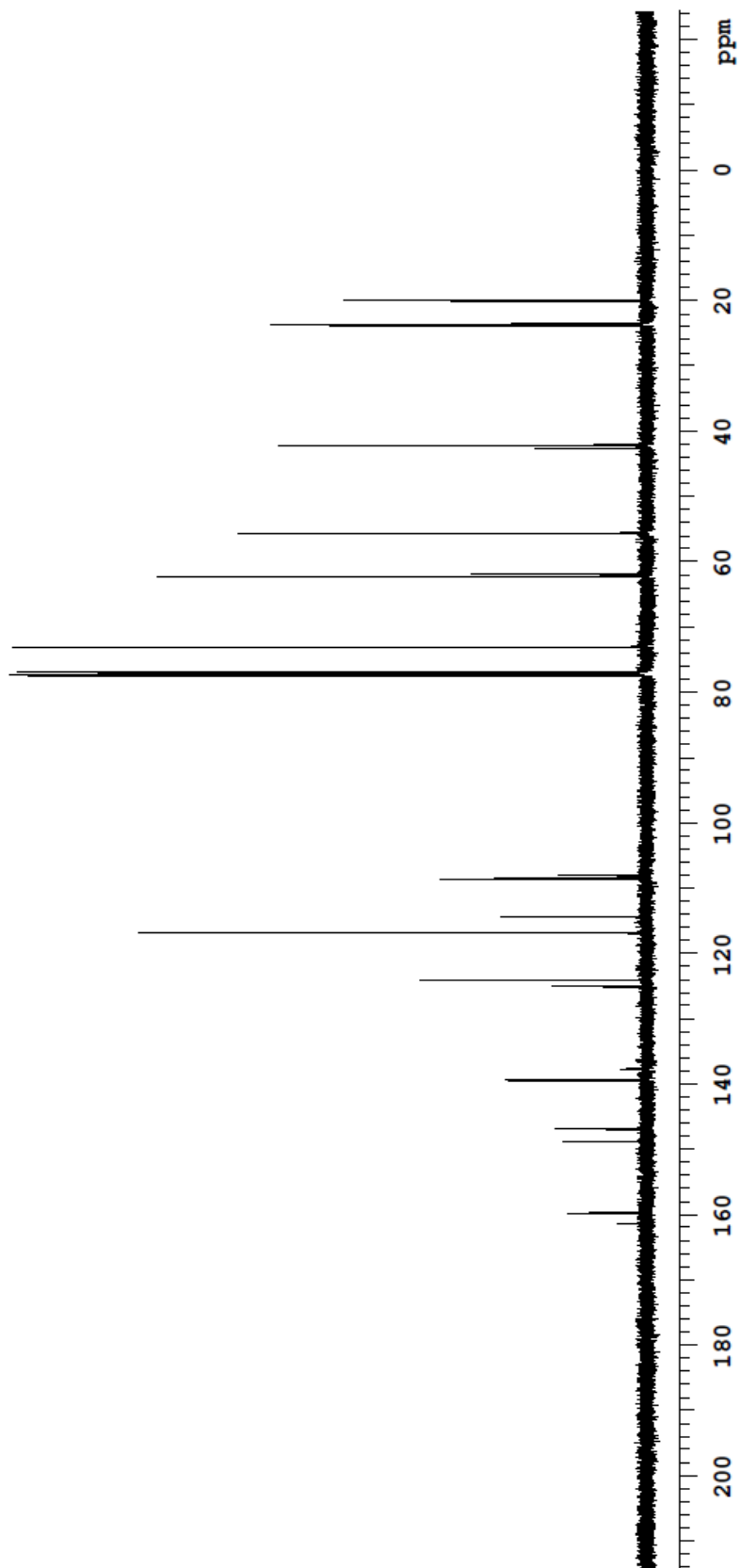
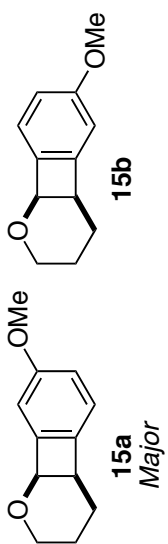
Expanded NOESY spectrum of compound **14** in CDCl<sub>3</sub>



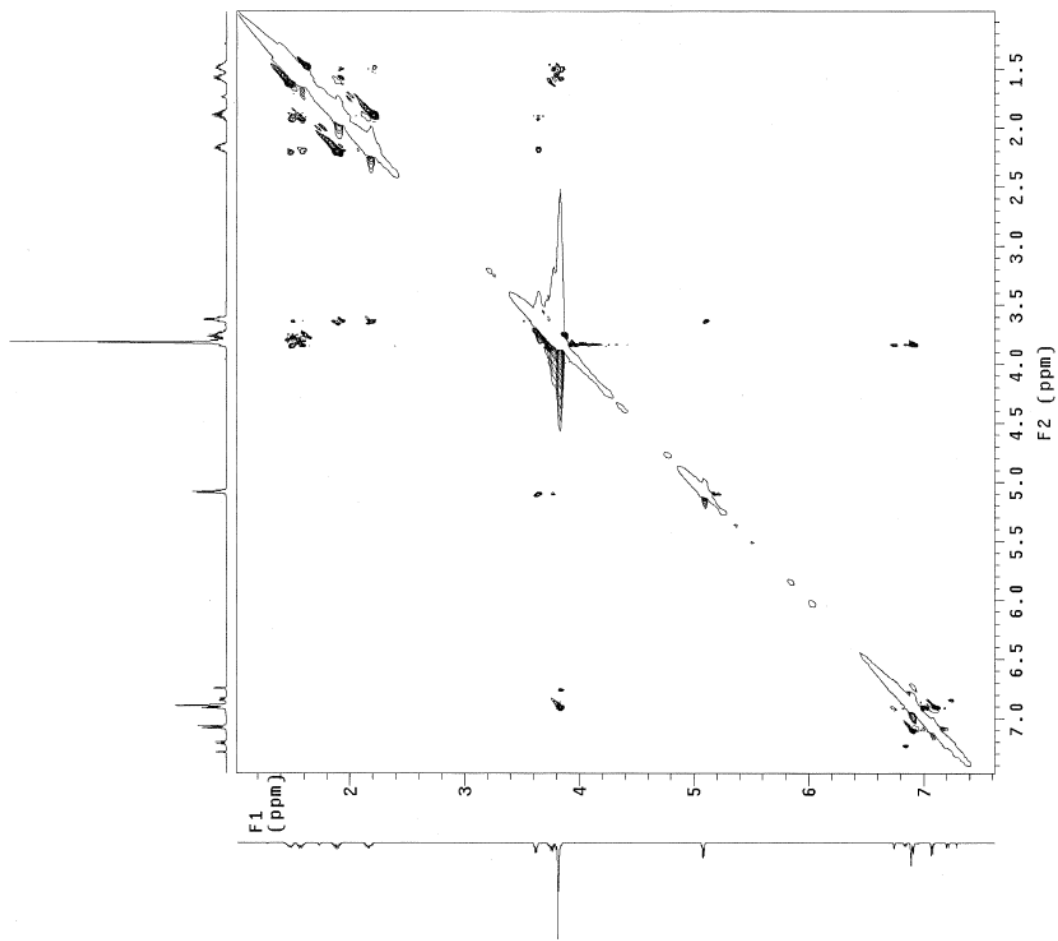
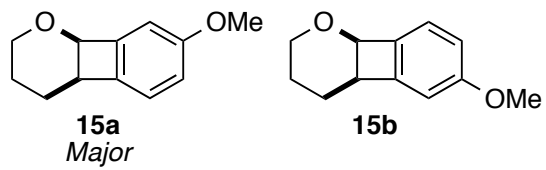




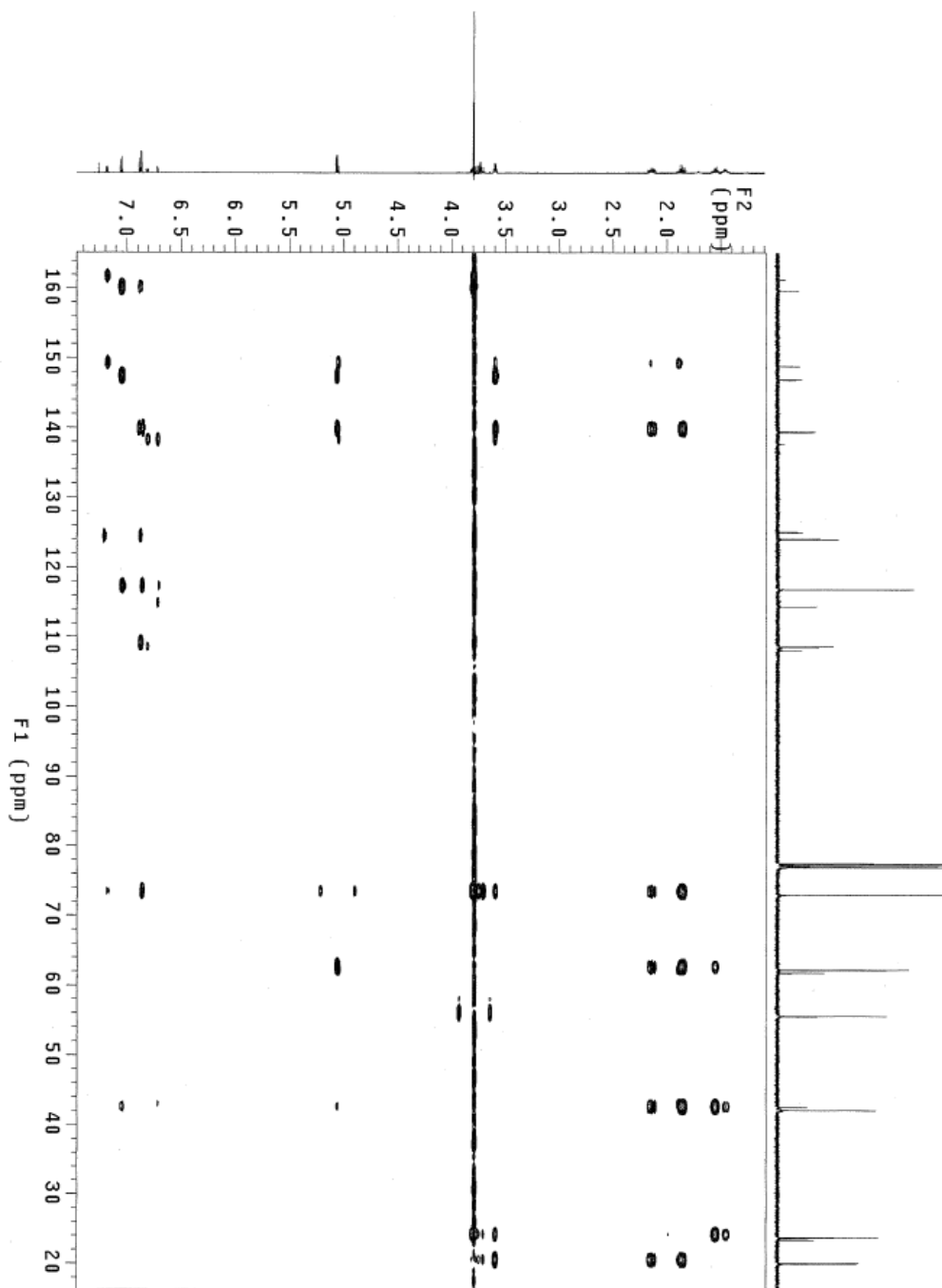
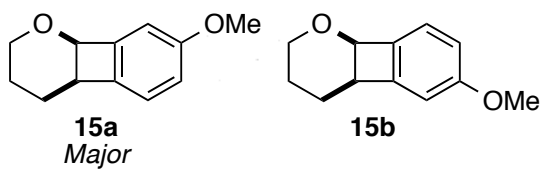


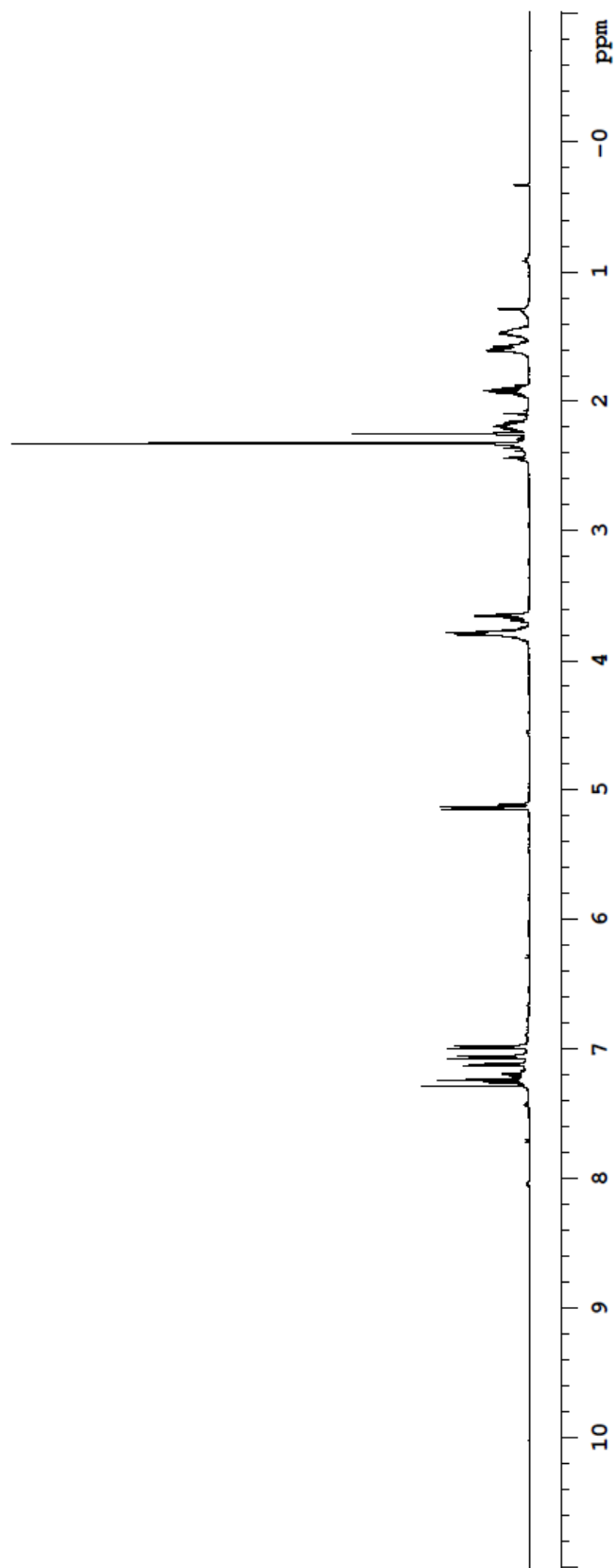
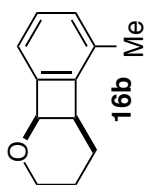
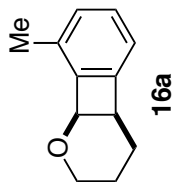


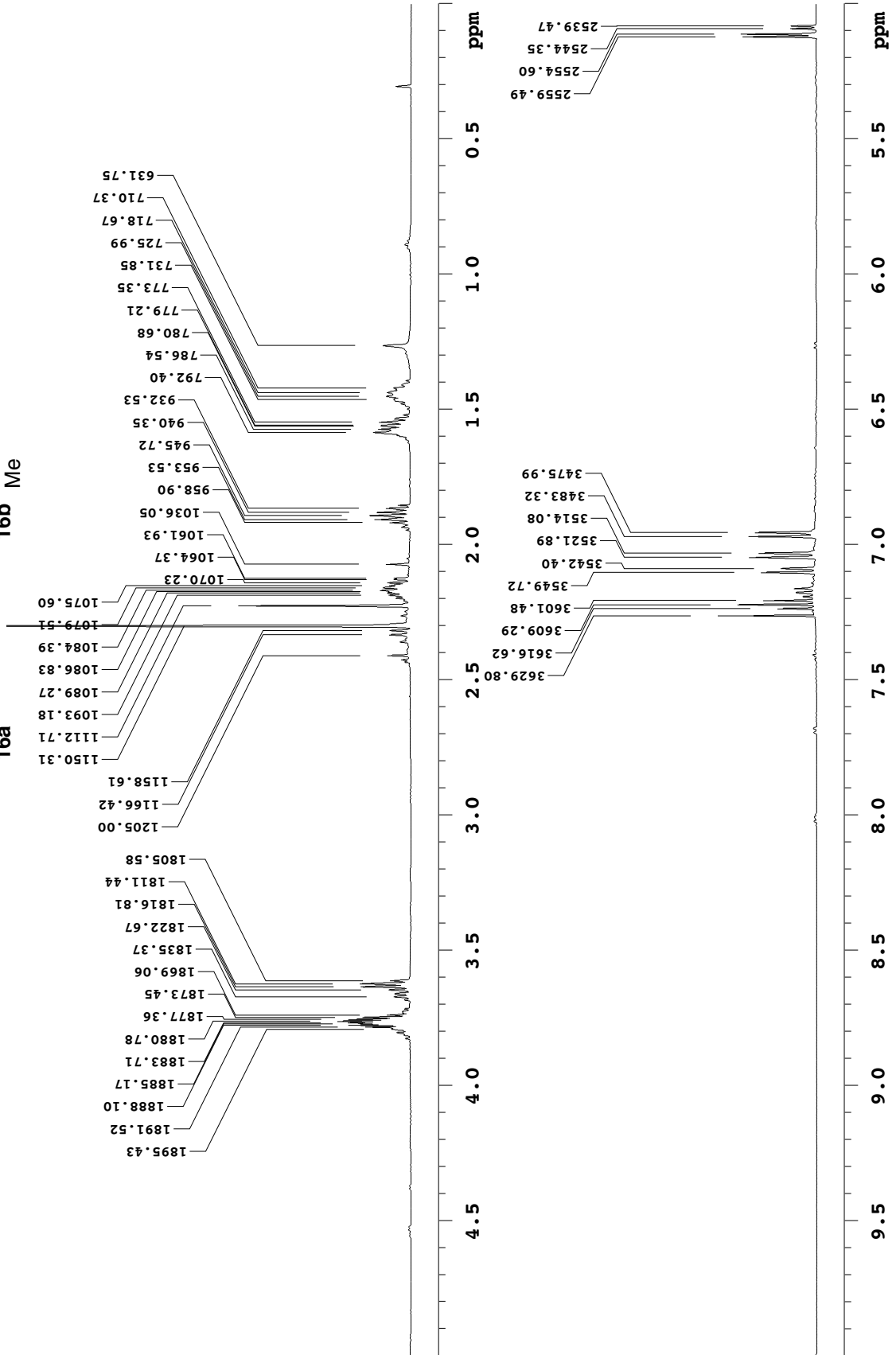
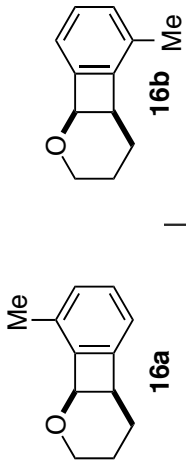
NOESY spectrum of isomers **15a** + **15b** in CDCl<sub>3</sub>

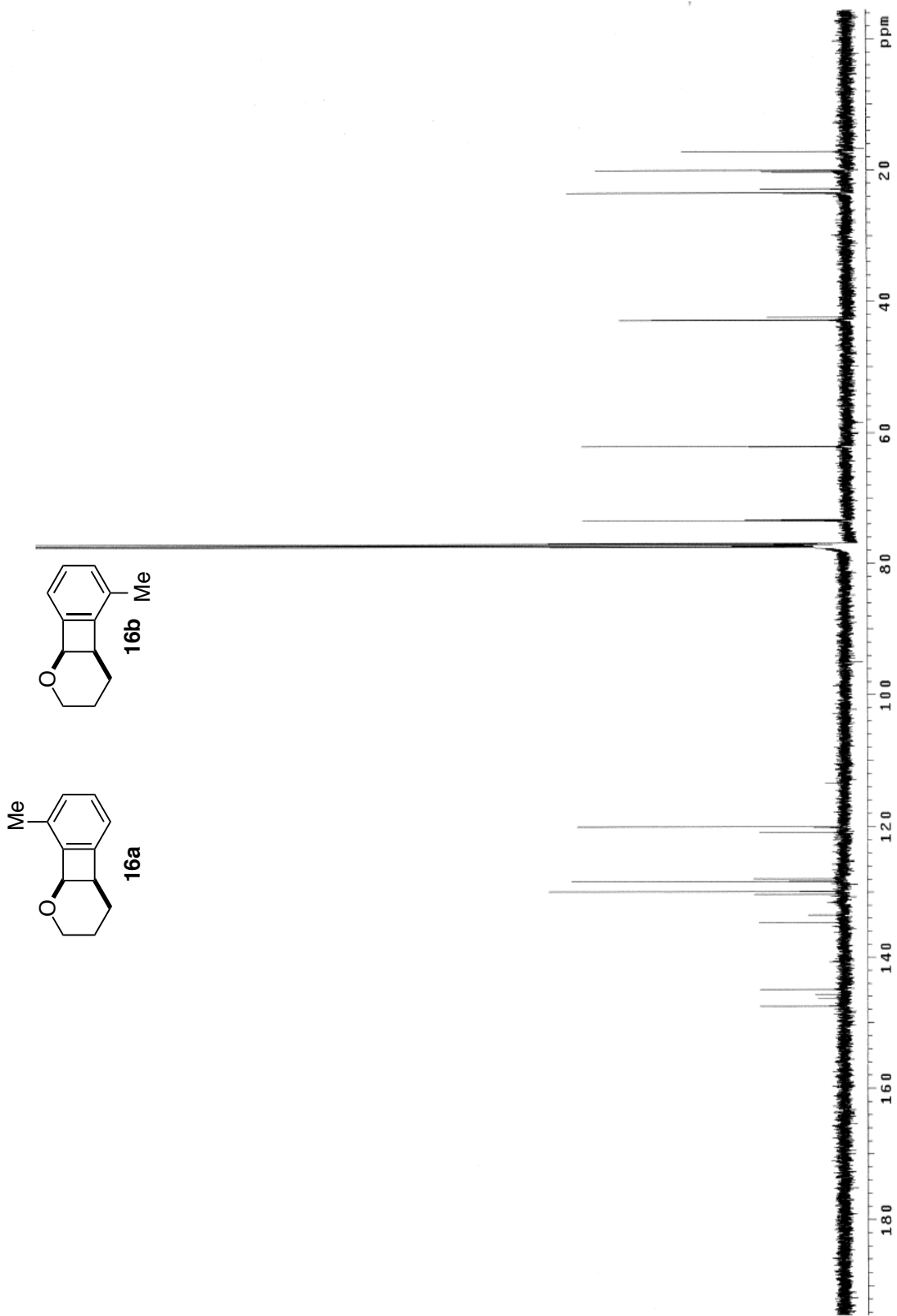


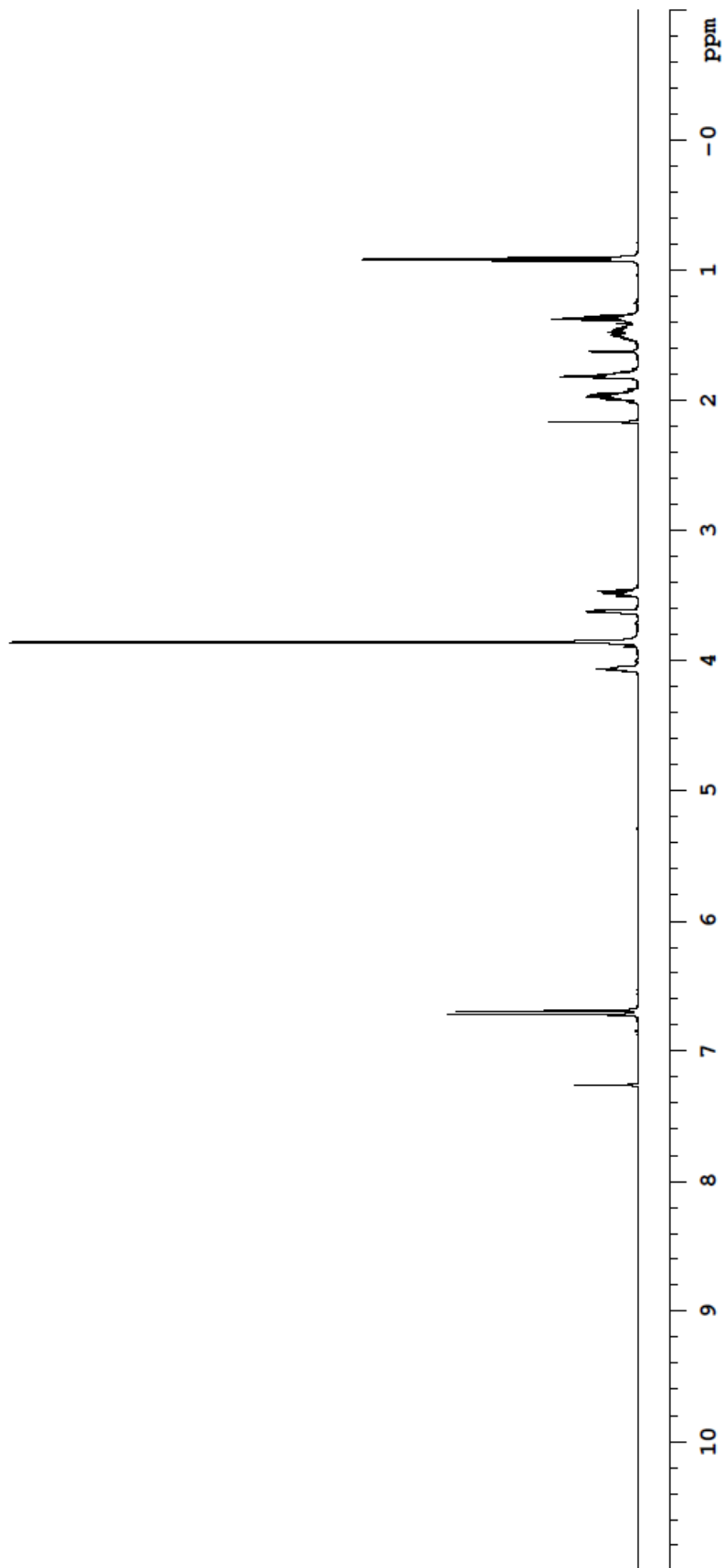
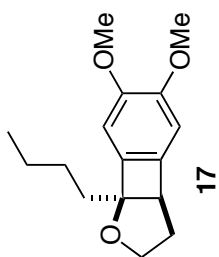
HMBC spectrum of isomers **15a** + **15b** in CDCl<sub>3</sub>



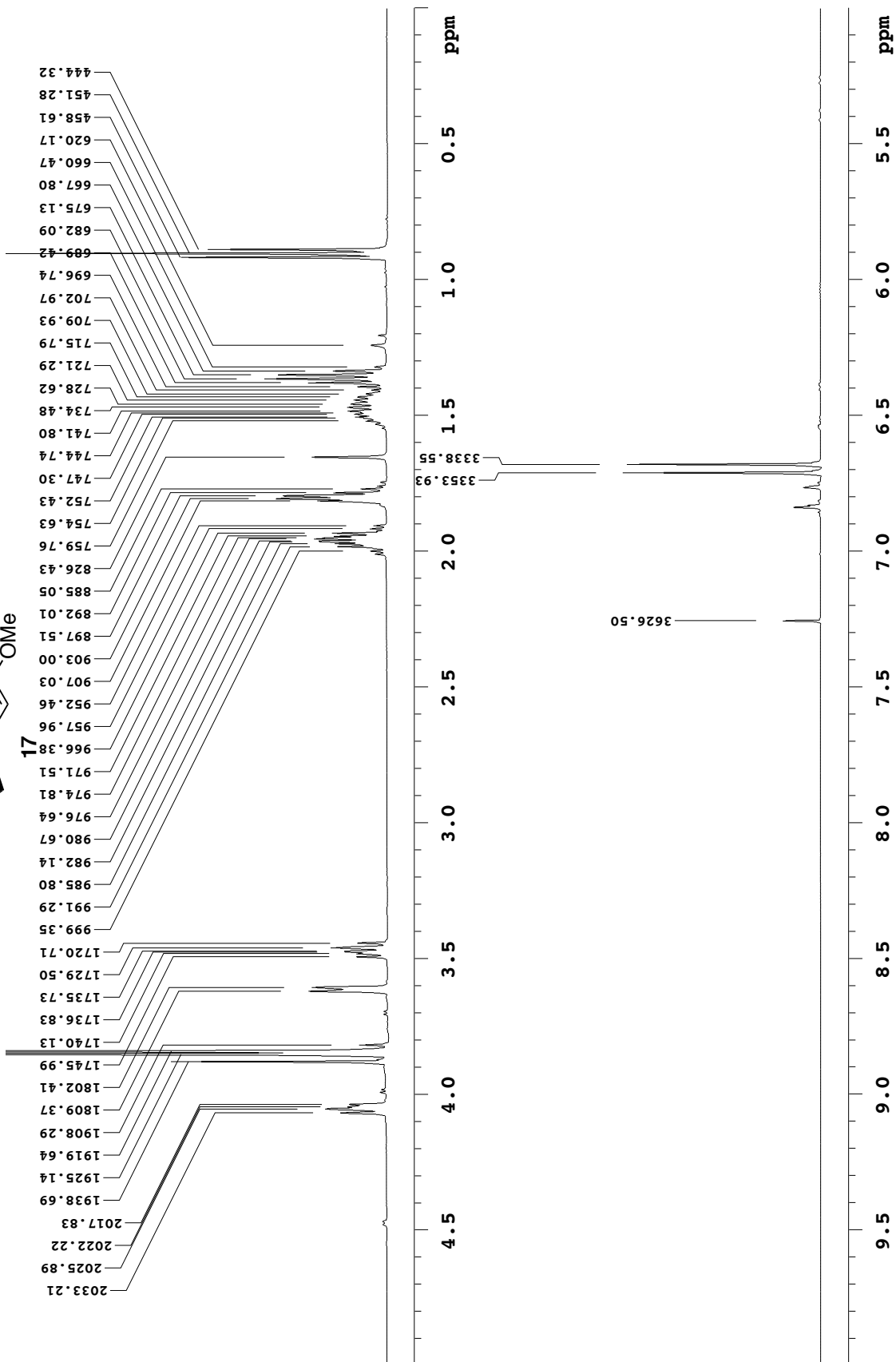
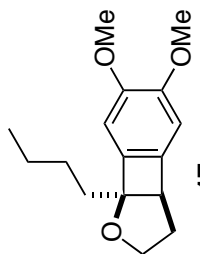


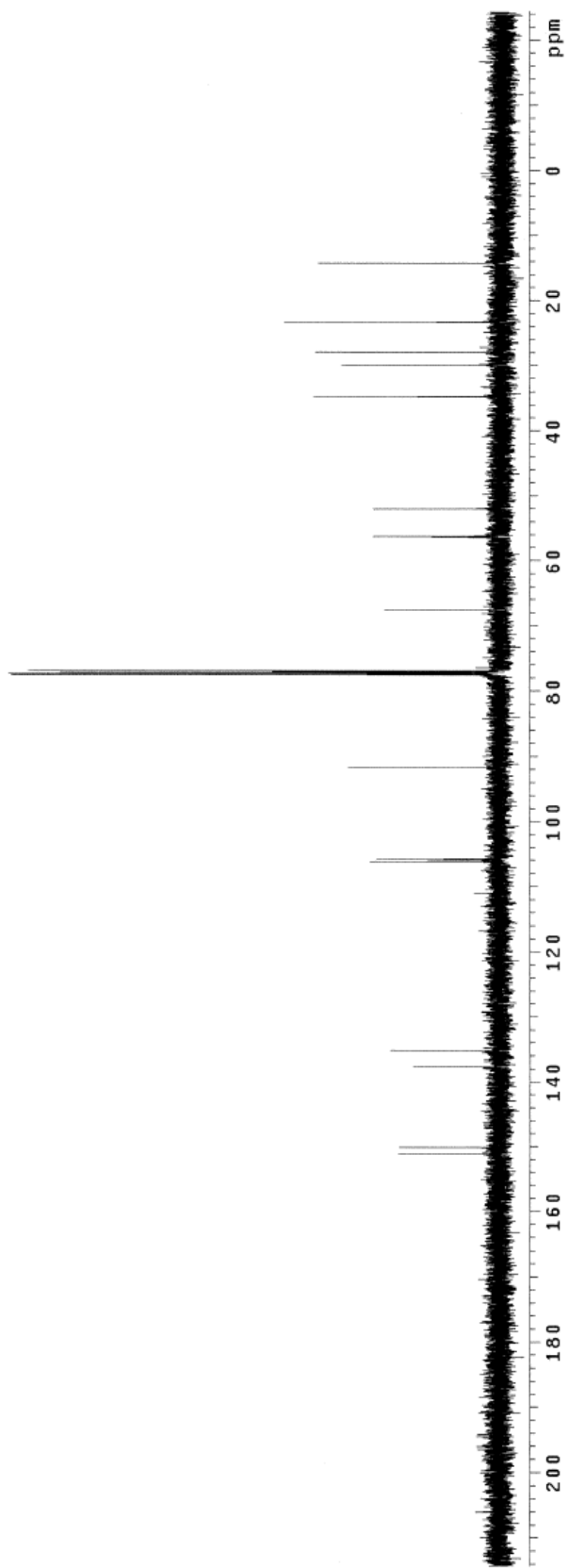
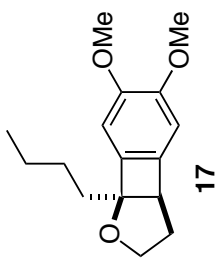


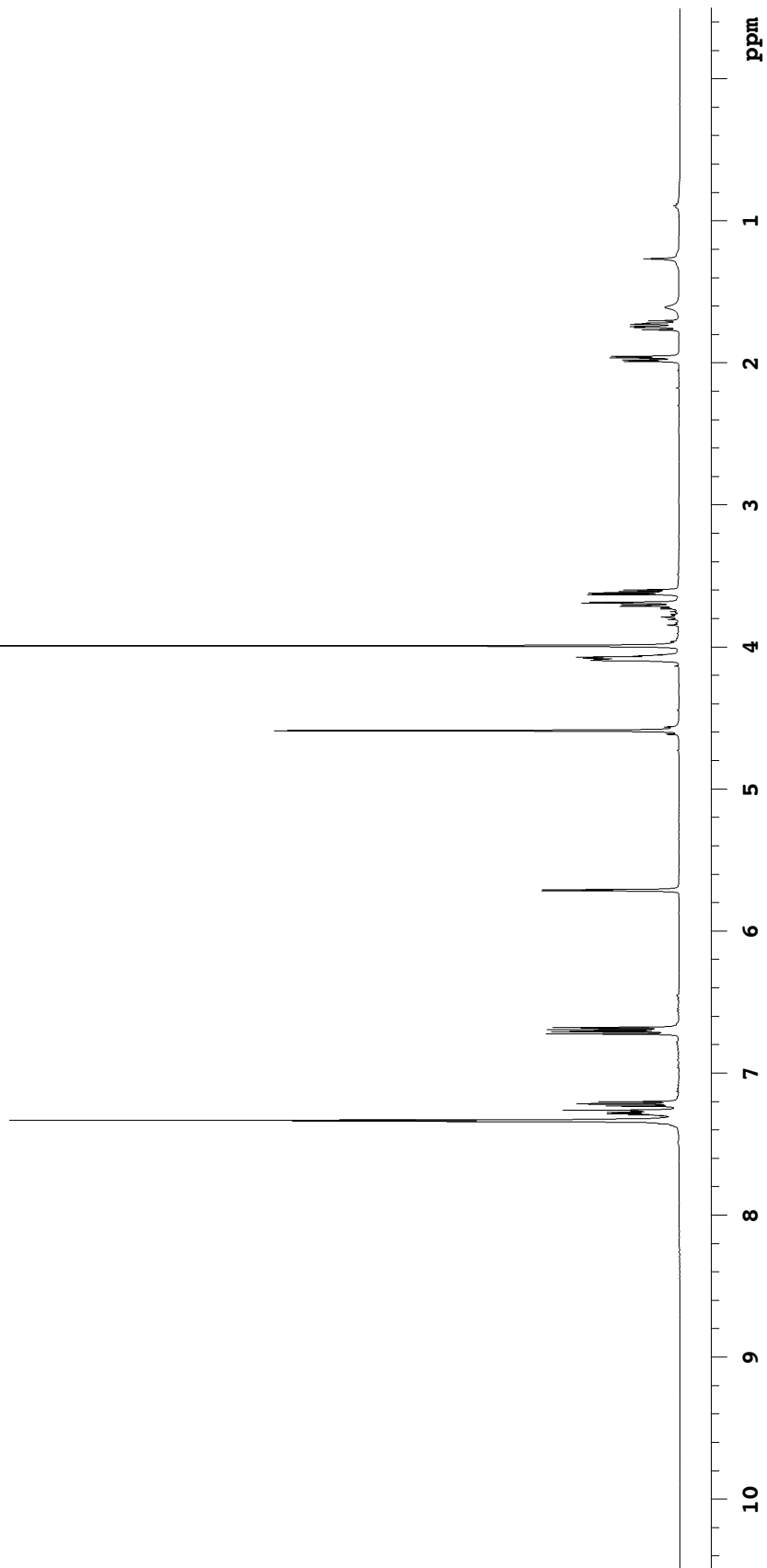
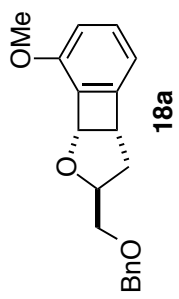


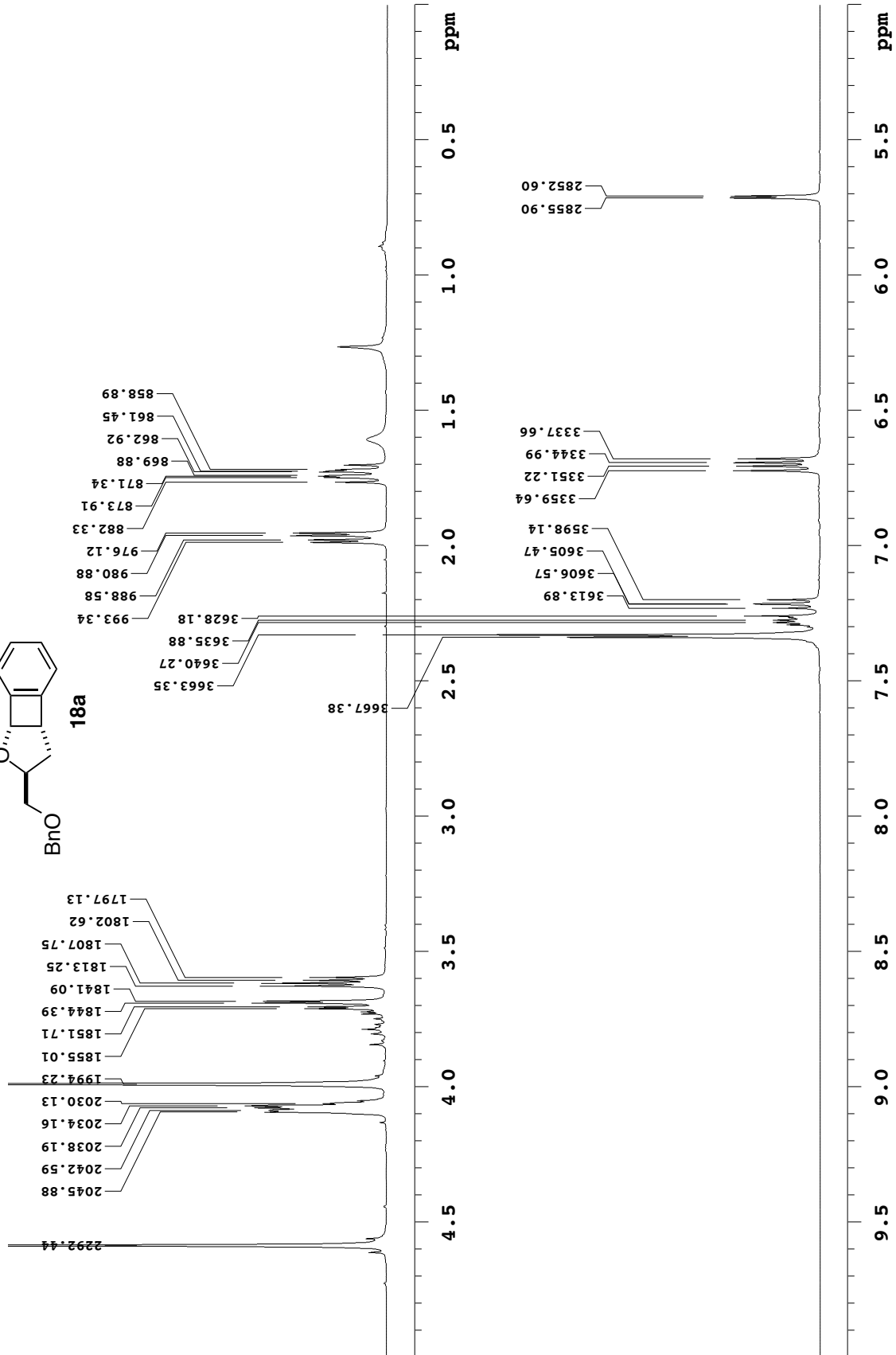
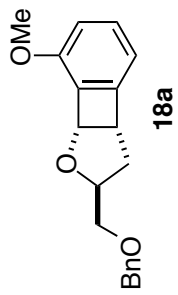


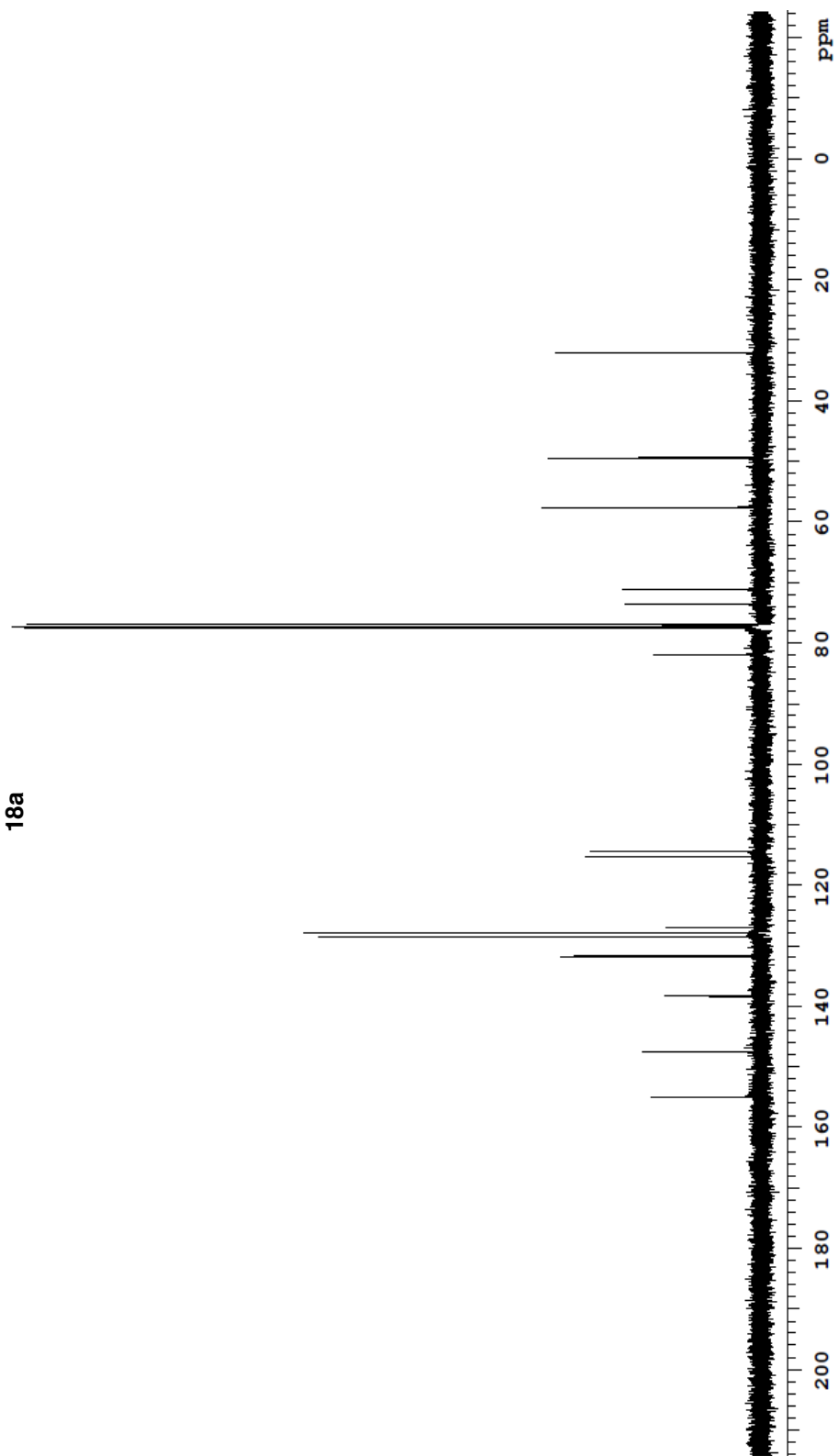
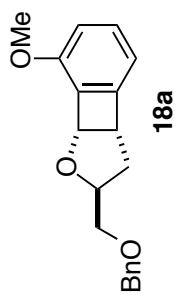




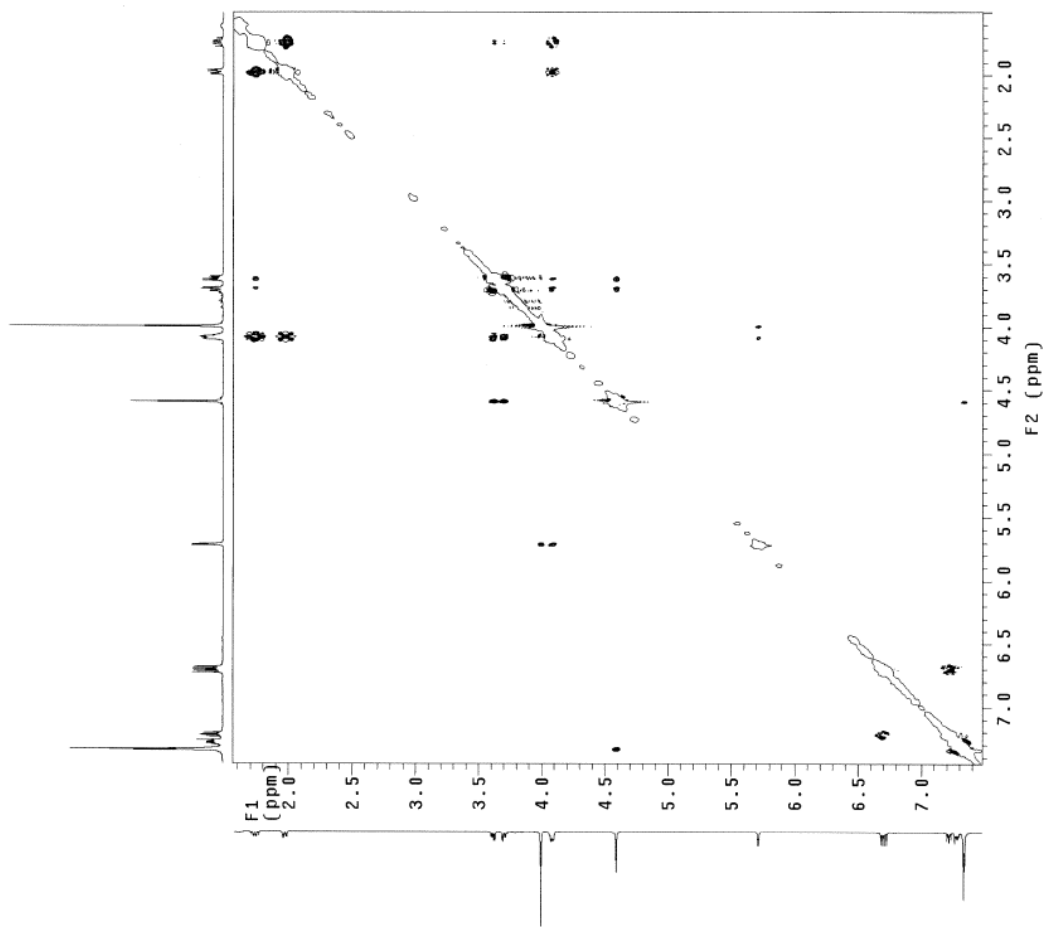
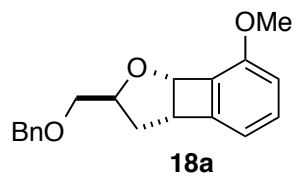


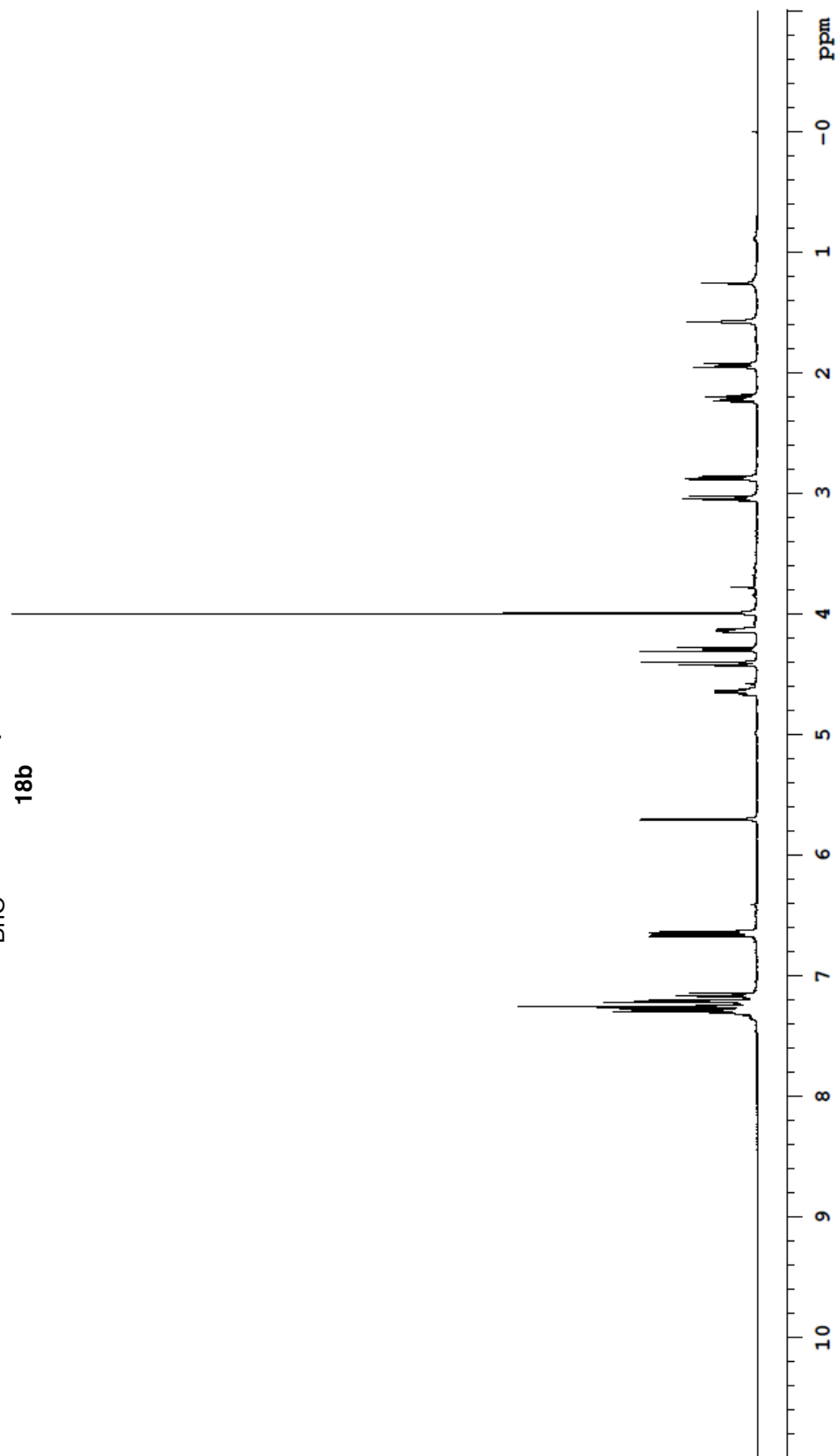
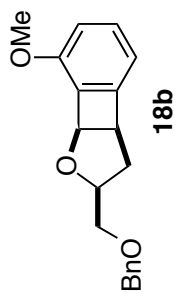


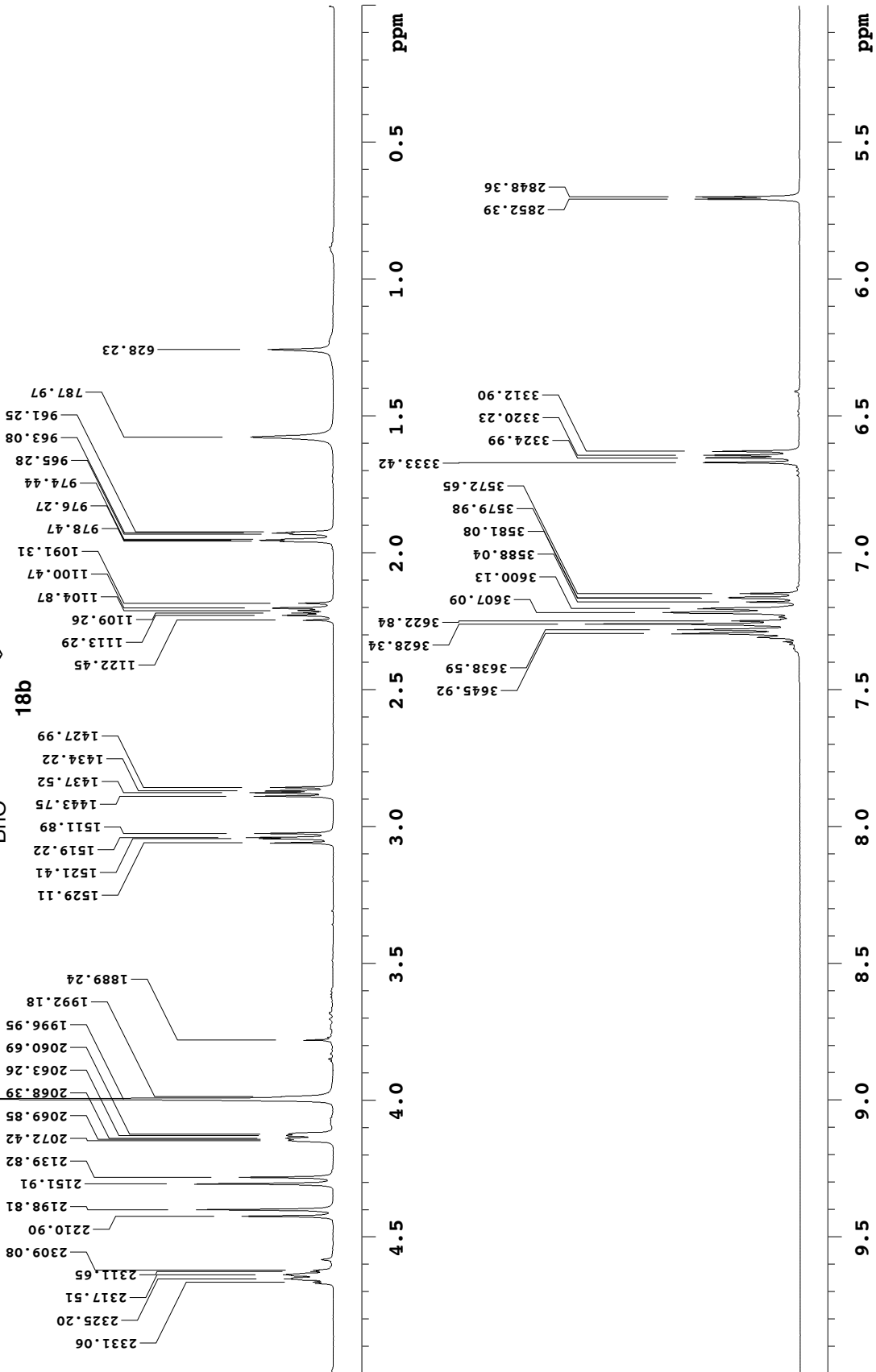
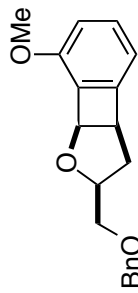




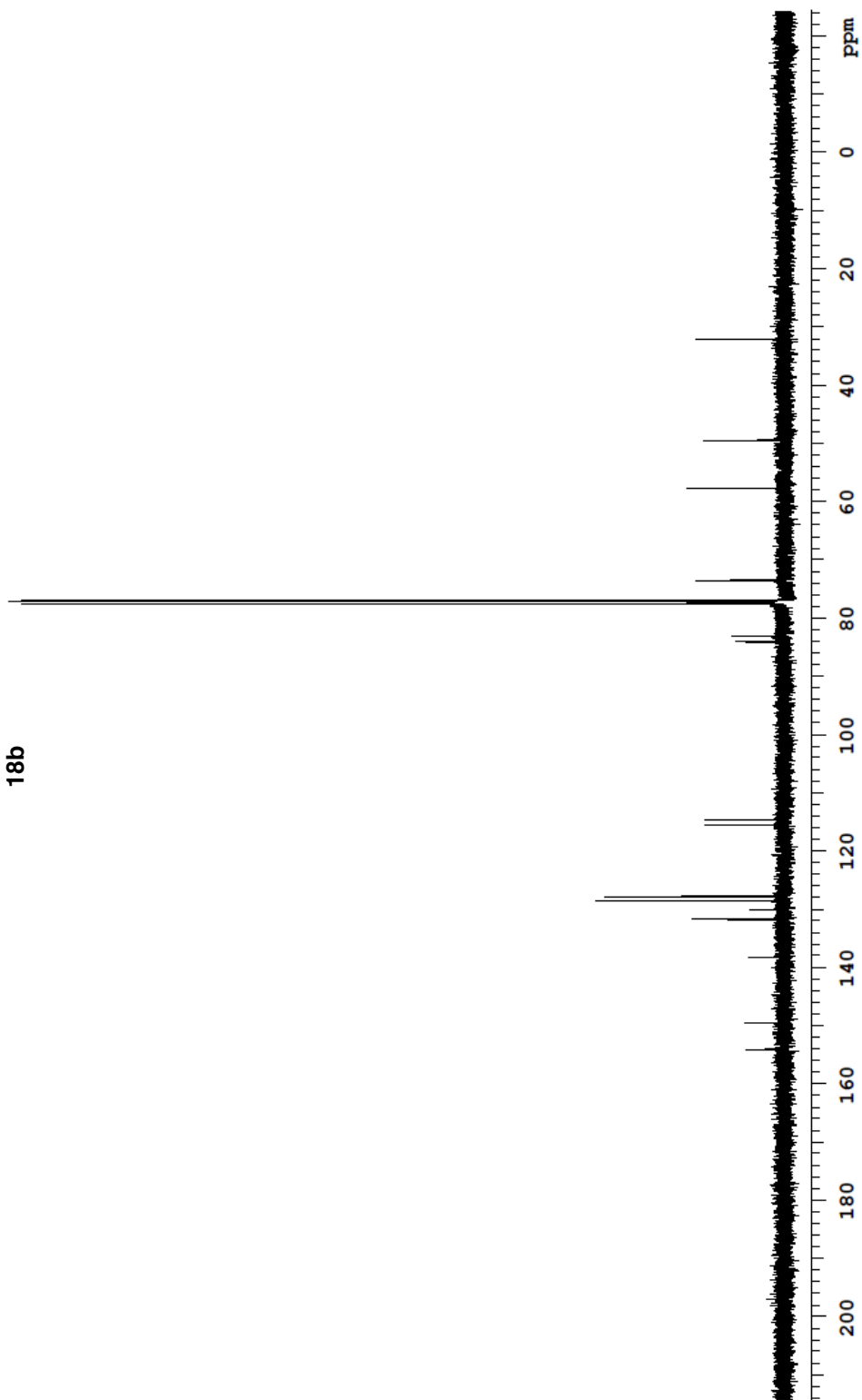
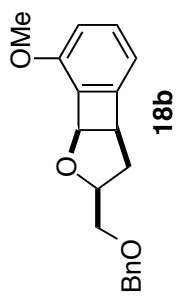
NOESY spectrum of compound **18a** in CDCl<sub>3</sub>



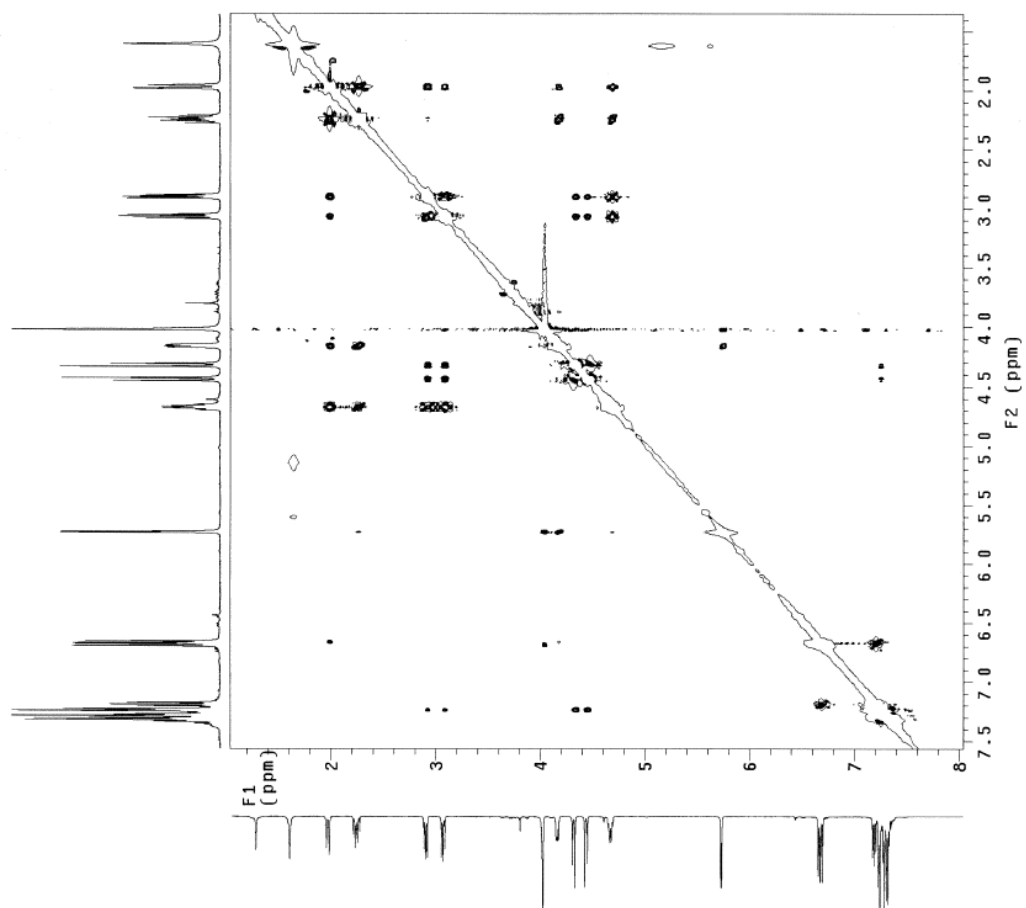
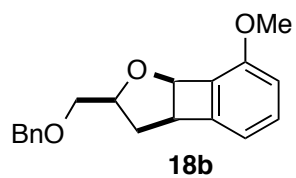


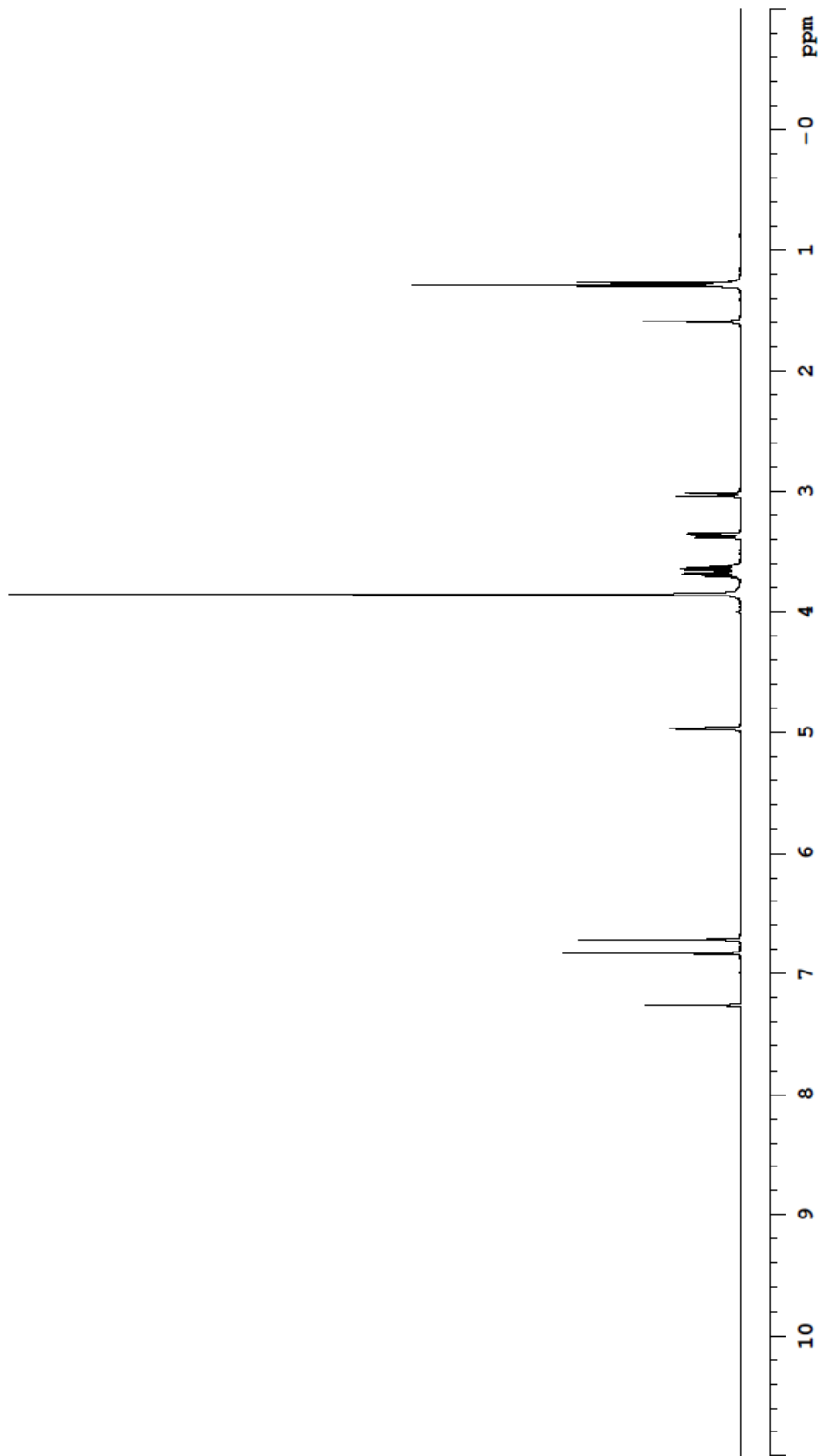
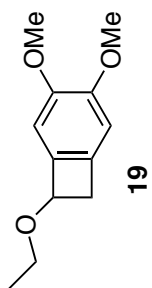


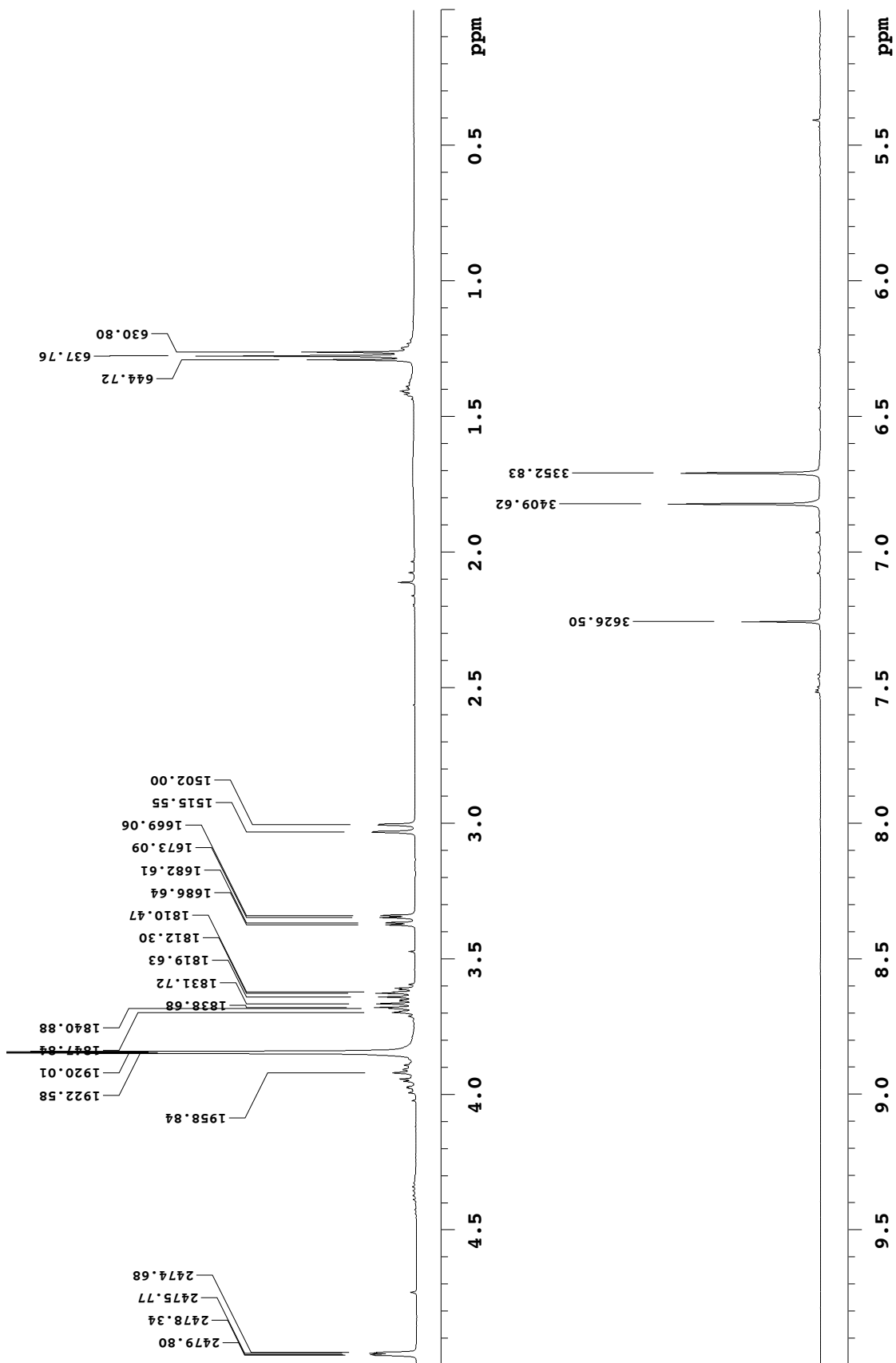


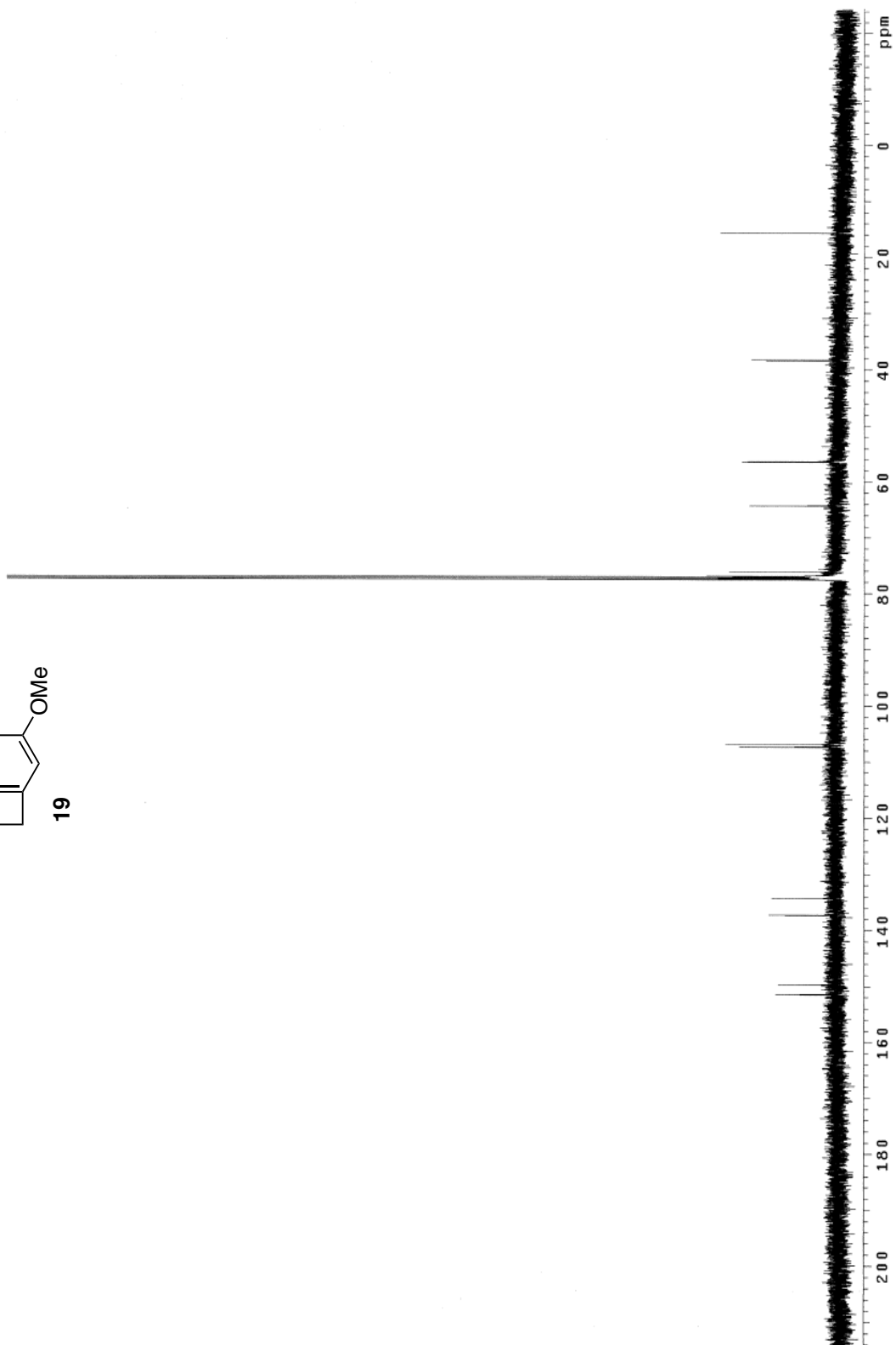
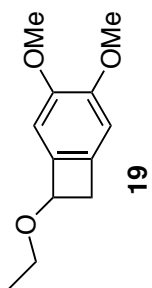


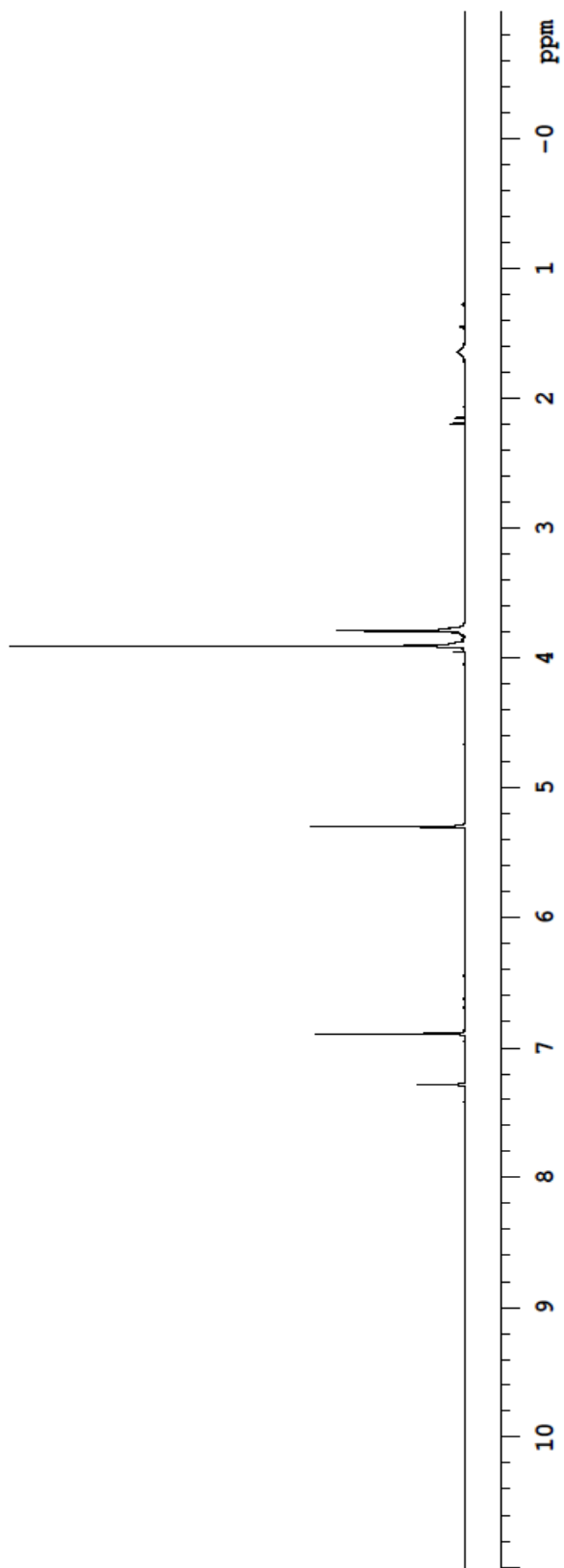
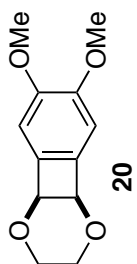
NOESY spectrum of compound **18b** in CDCl<sub>3</sub>

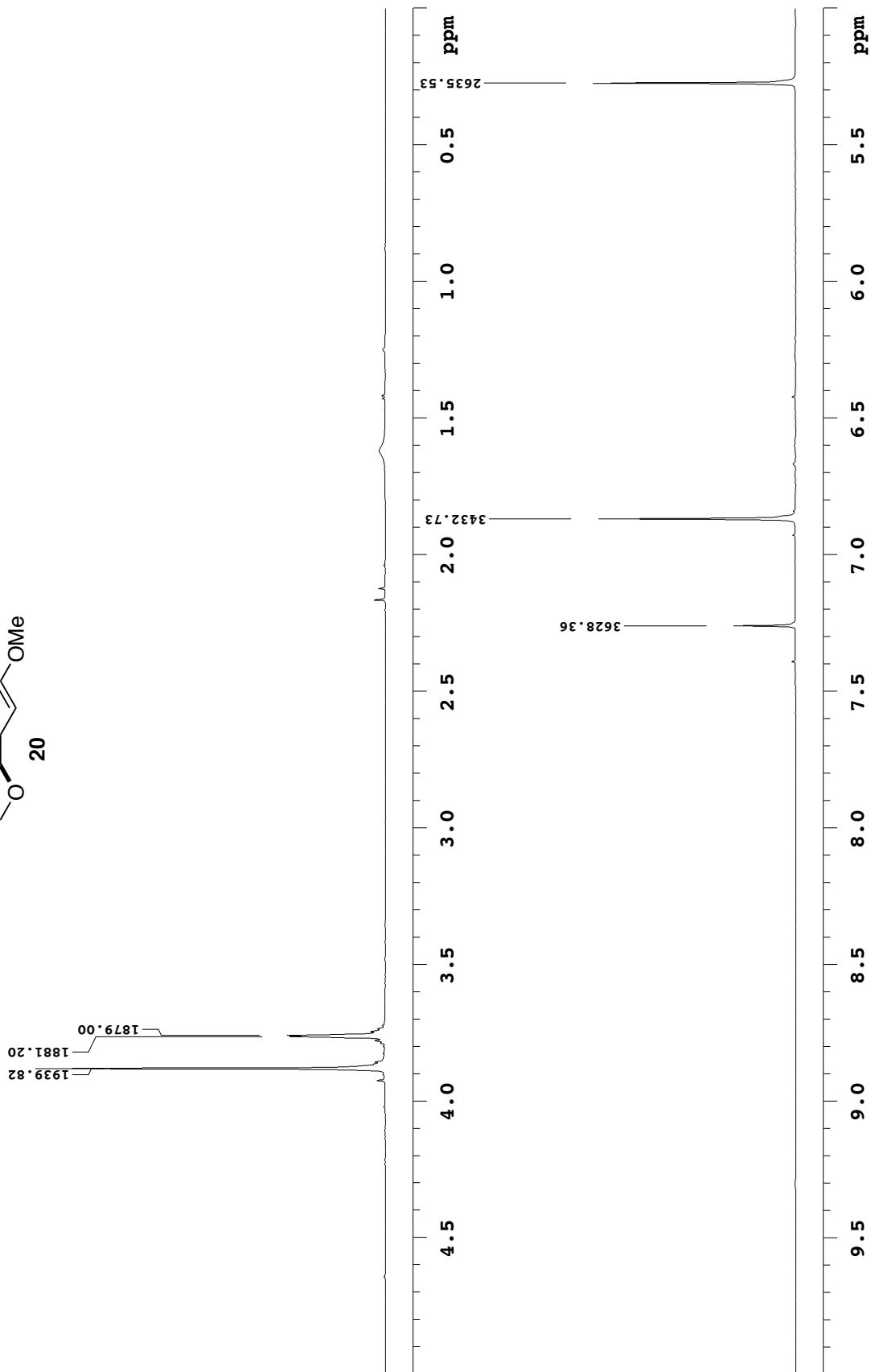
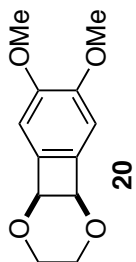


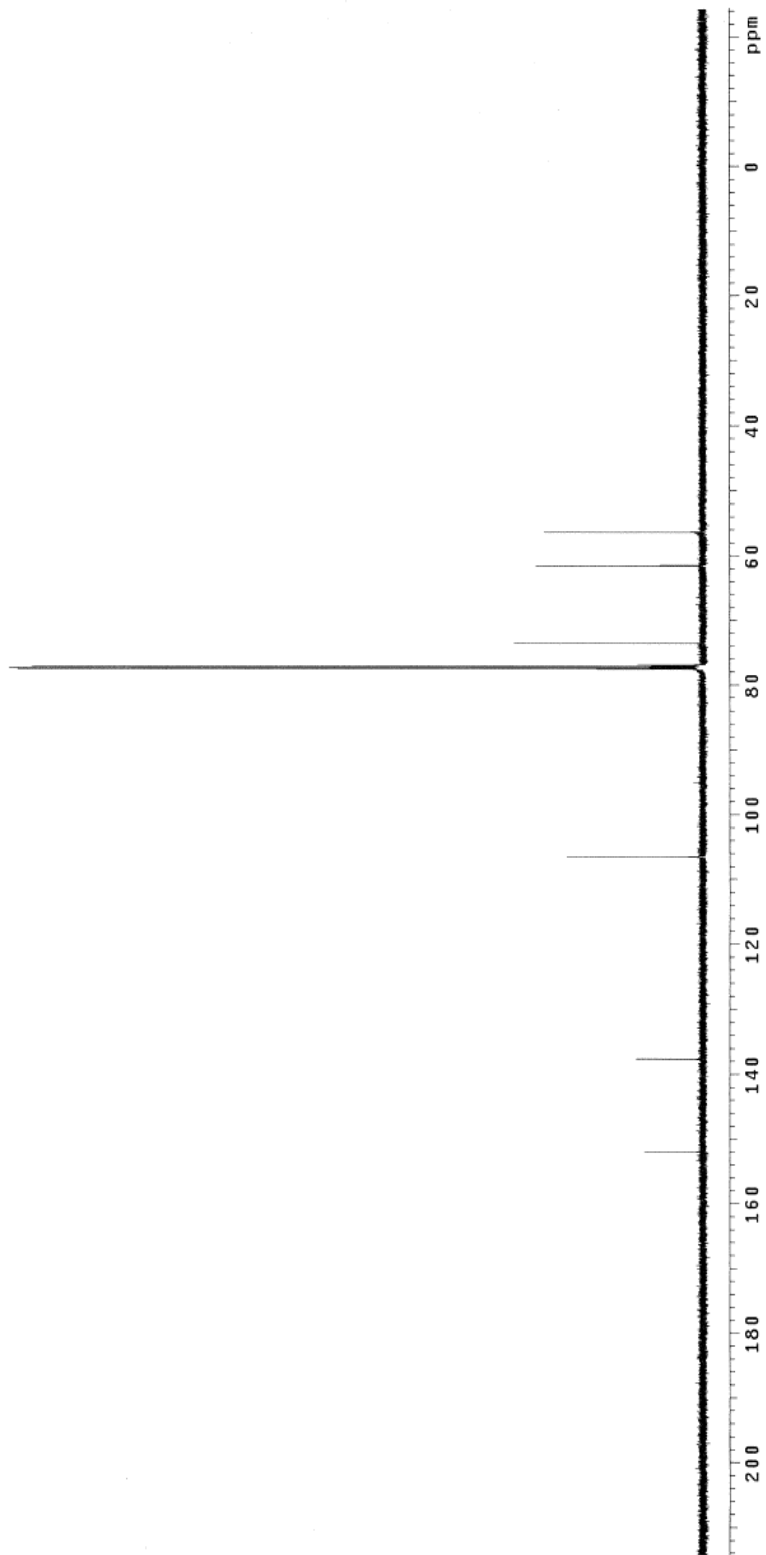
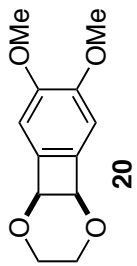




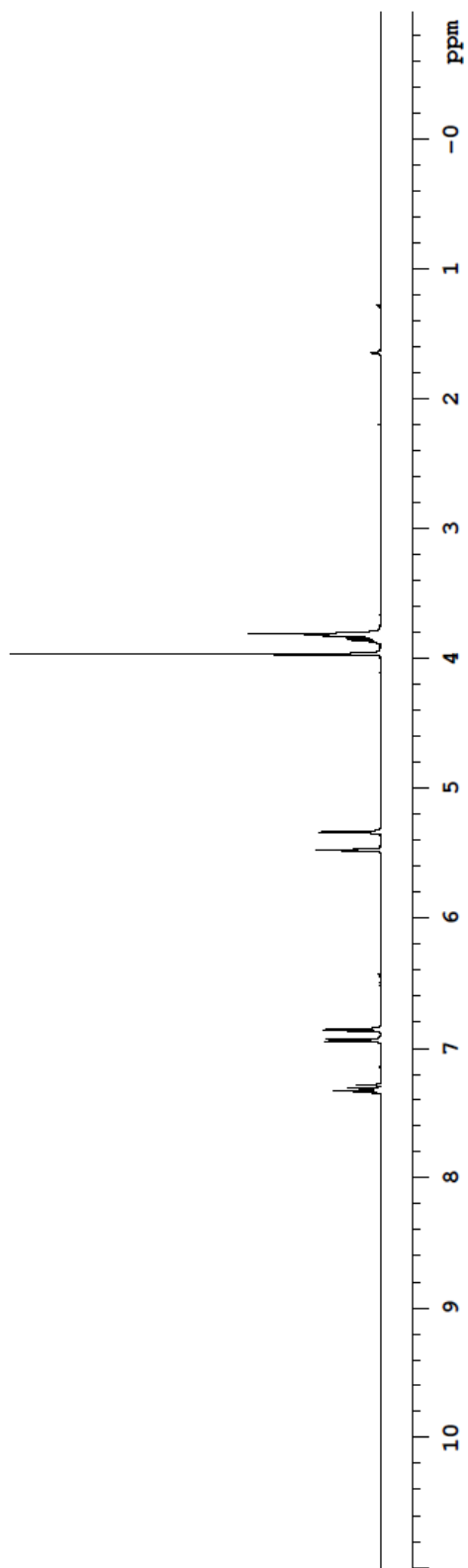
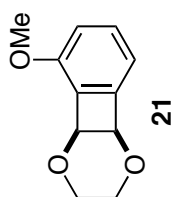


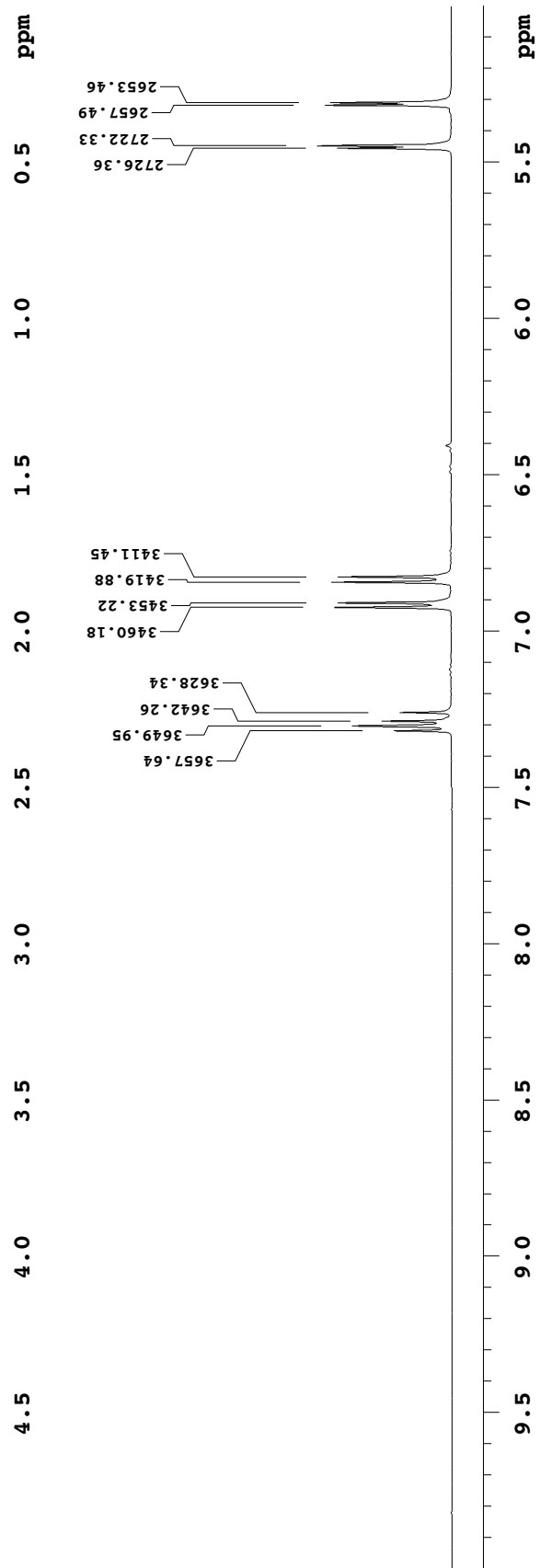
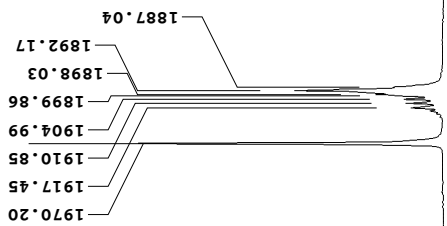
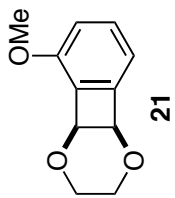


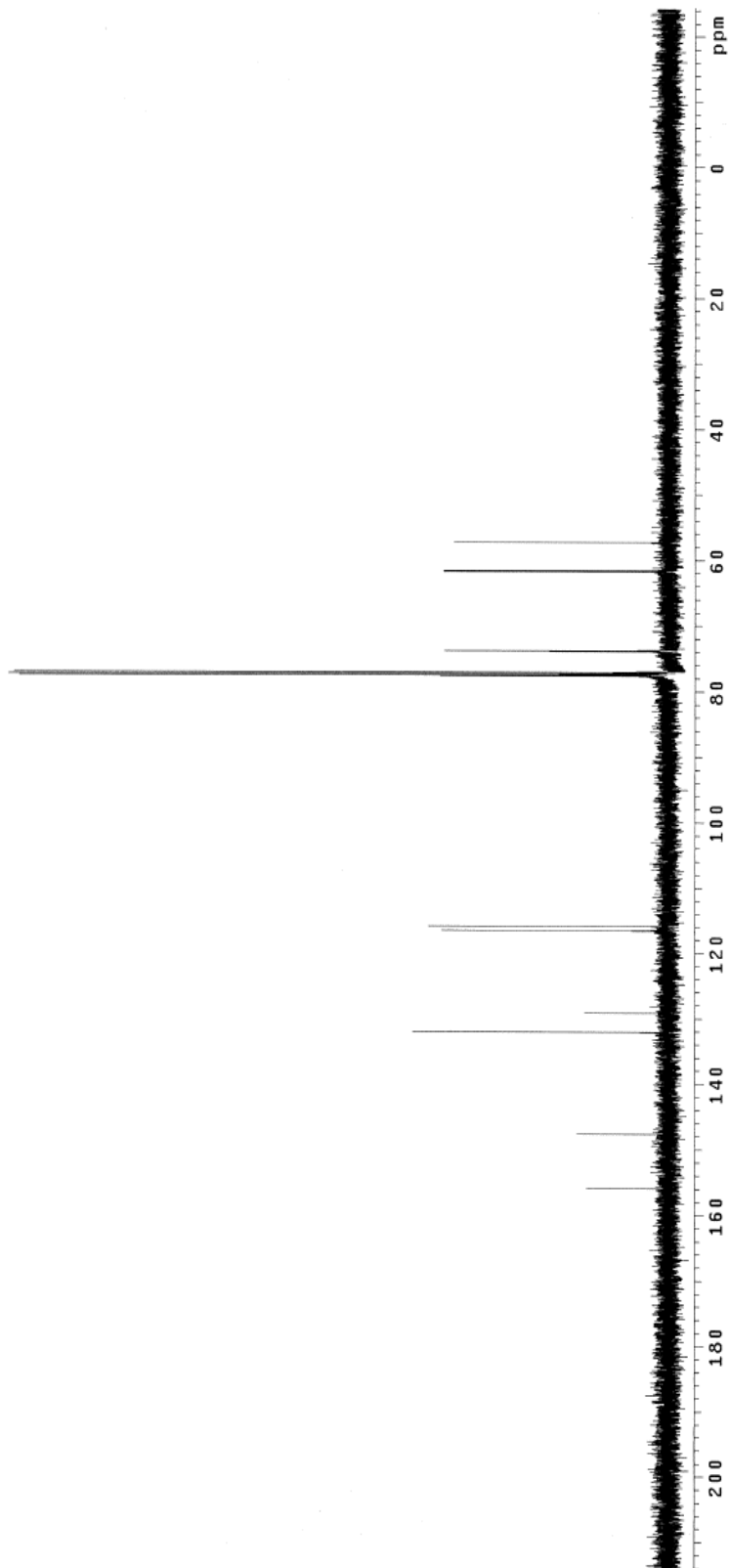
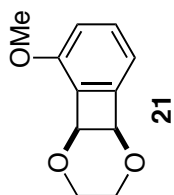


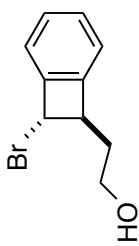




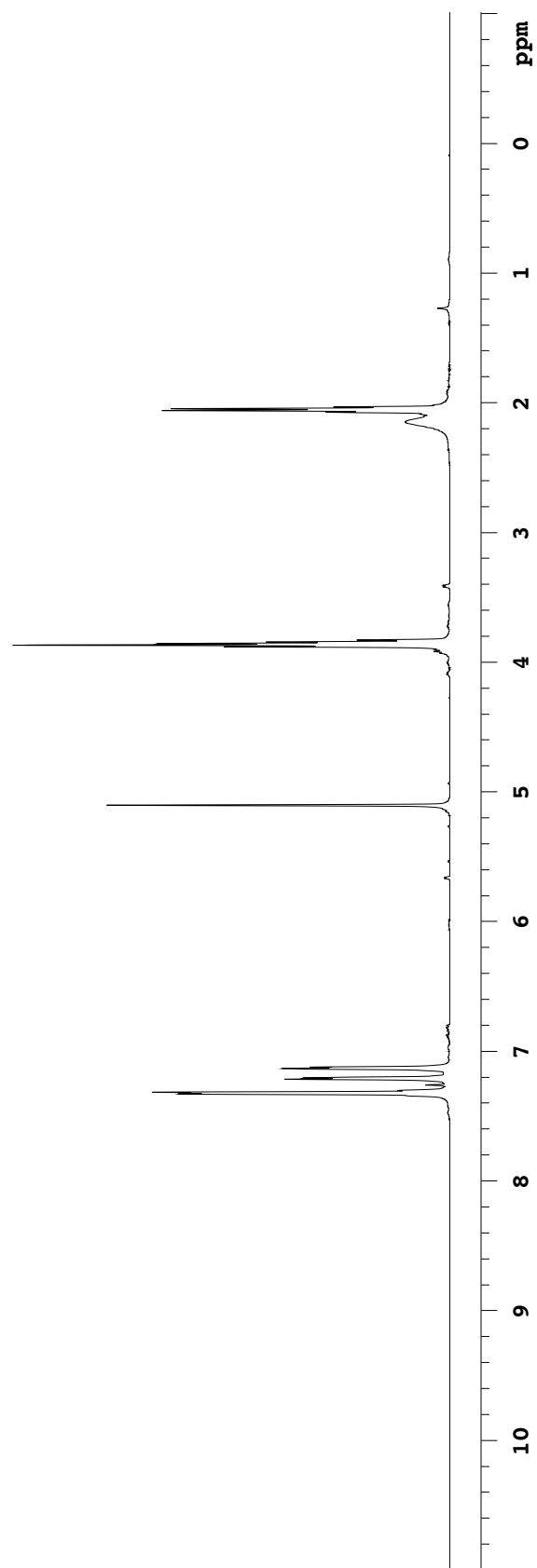


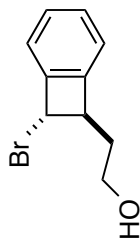






Intermediate *en route*  
to compound **22**

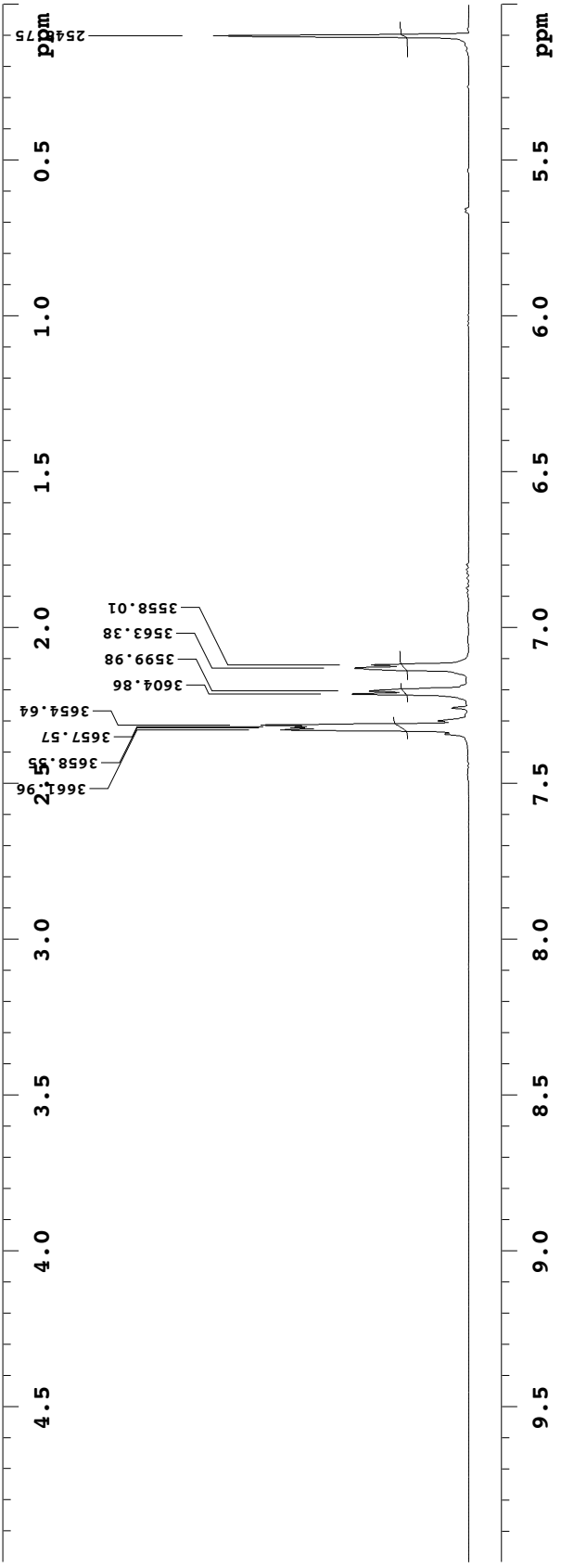


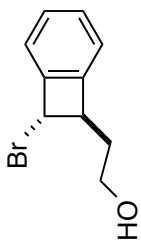


Intermediate *en route*  
to compound **22**

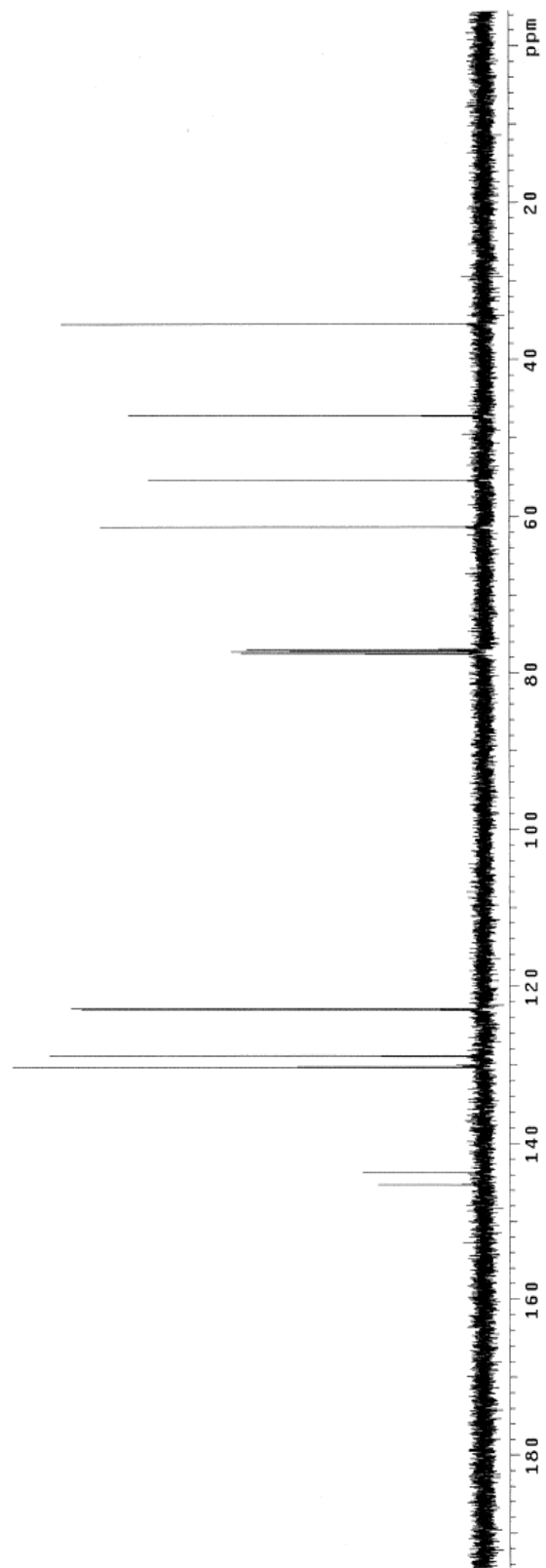
1938.70  
1932.36  
1926.50  
1920.16  
1912.35

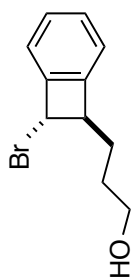
1071.95  
1034.37  
1028.03  
1020.71  
1014.36



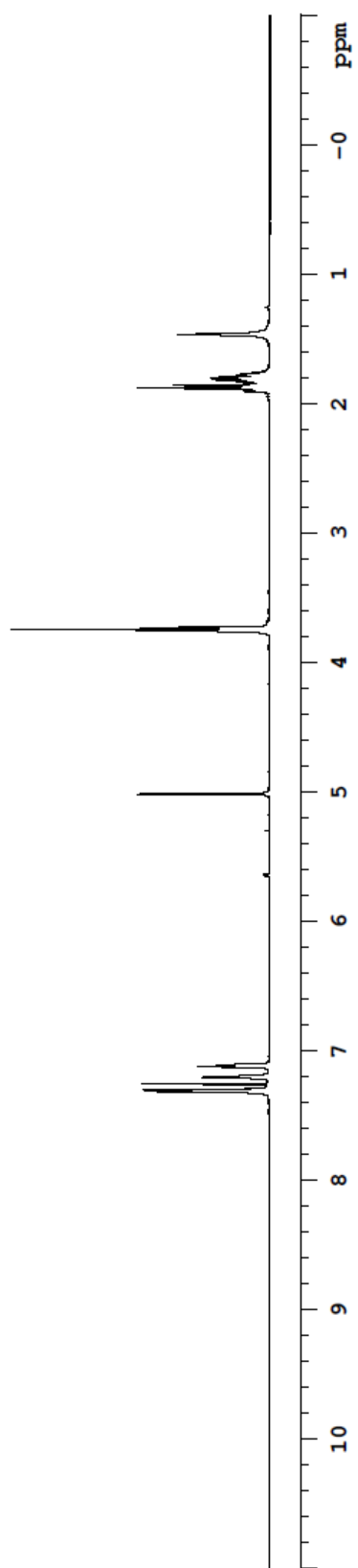


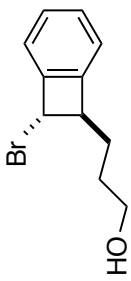
Intermediate *en route*  
to compound **22**



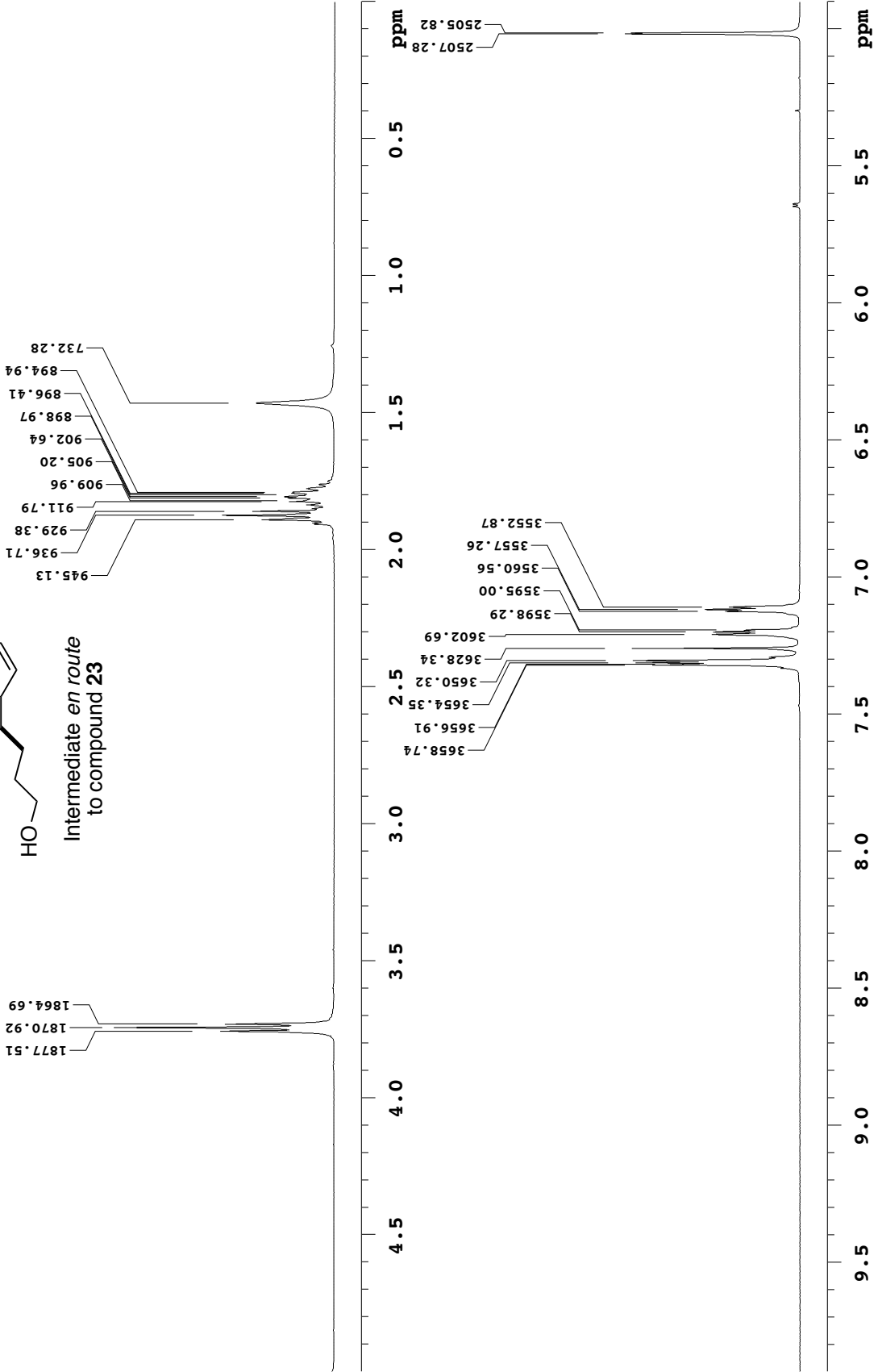


Intermediate *en route*  
to compound **23**

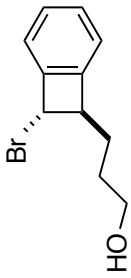




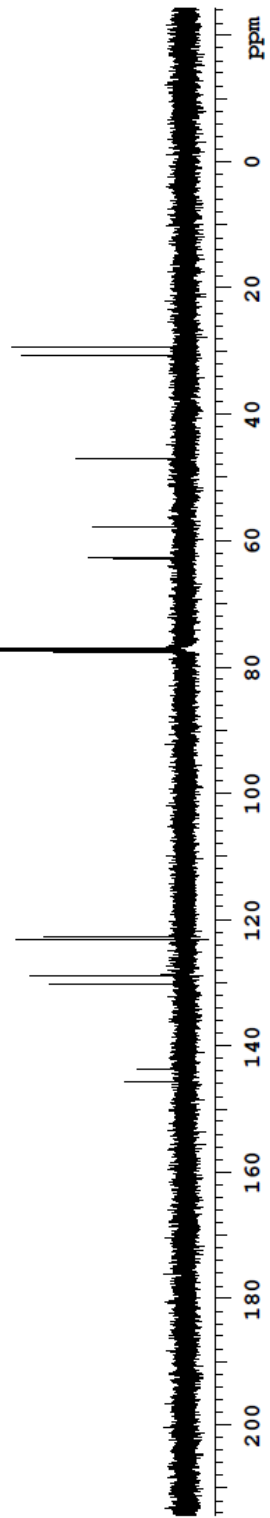
Intermediate *en route*  
to compound **23**

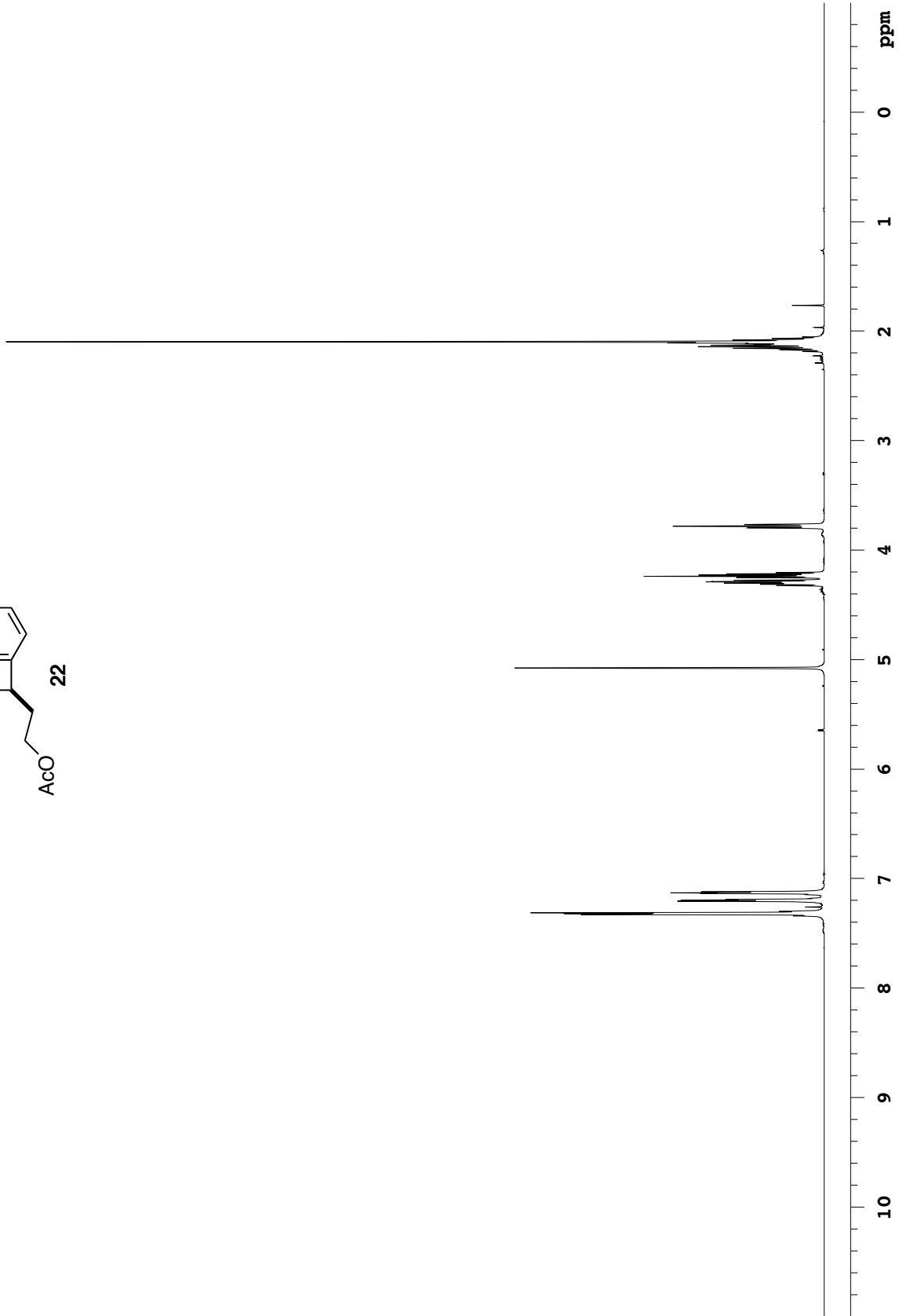
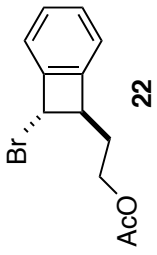


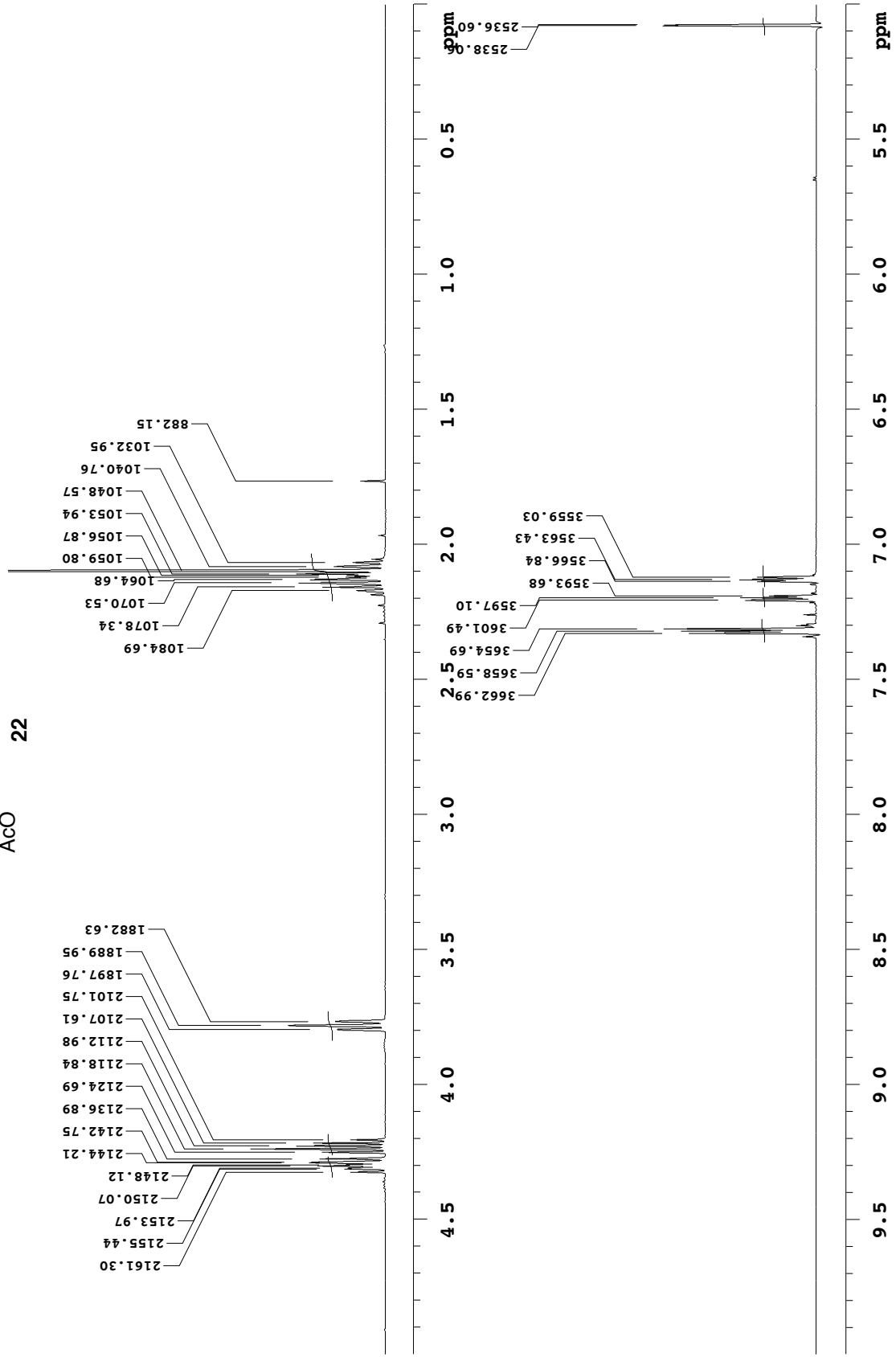
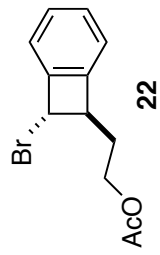


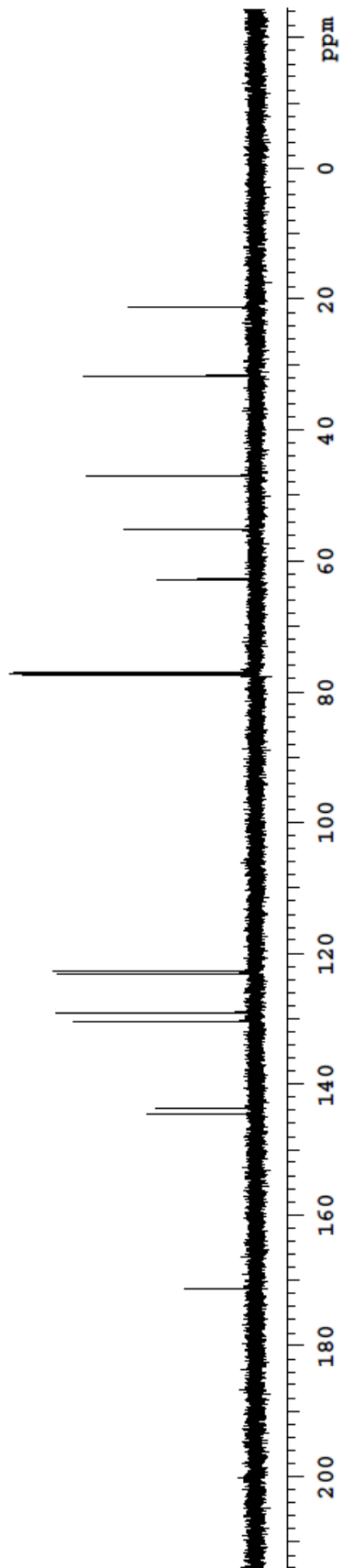
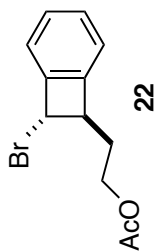


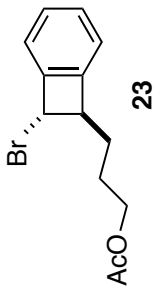
Intermediate *en route*  
to compound **23**











1205-vijay-01-66-1H-cdcl3

Pulse Sequence: s2pul

Solvent: CDCl3

Temp. 25.0 C / 298.1 K

Operator: mkl

File: 1205-vijay-01-66-1H-cdcl3

INOVA-500 "riga"

Relax. delay 2.000 sec

Pulse 38.6 degrees

Acq. time 1.892 sec

Width 8000.0 Hz

32 repetitions

OBSERVE H1, 499.7707193 MHz

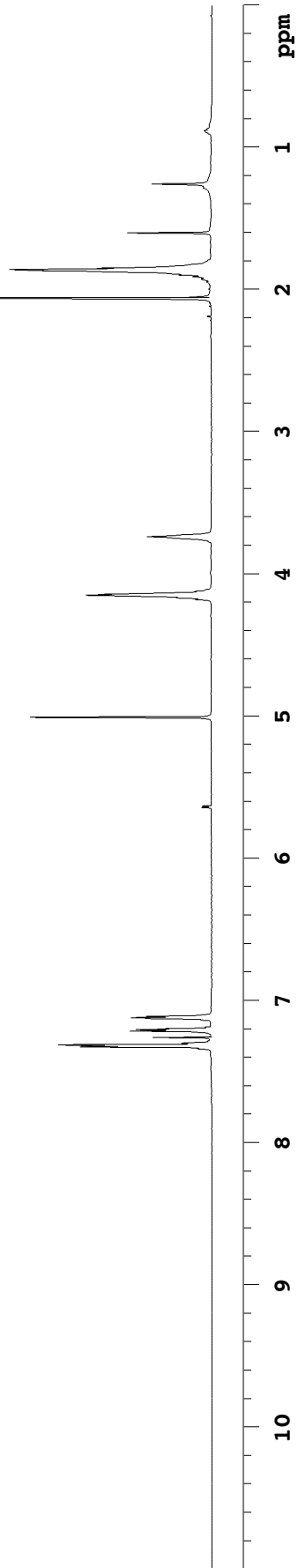
DATA PROCESSING

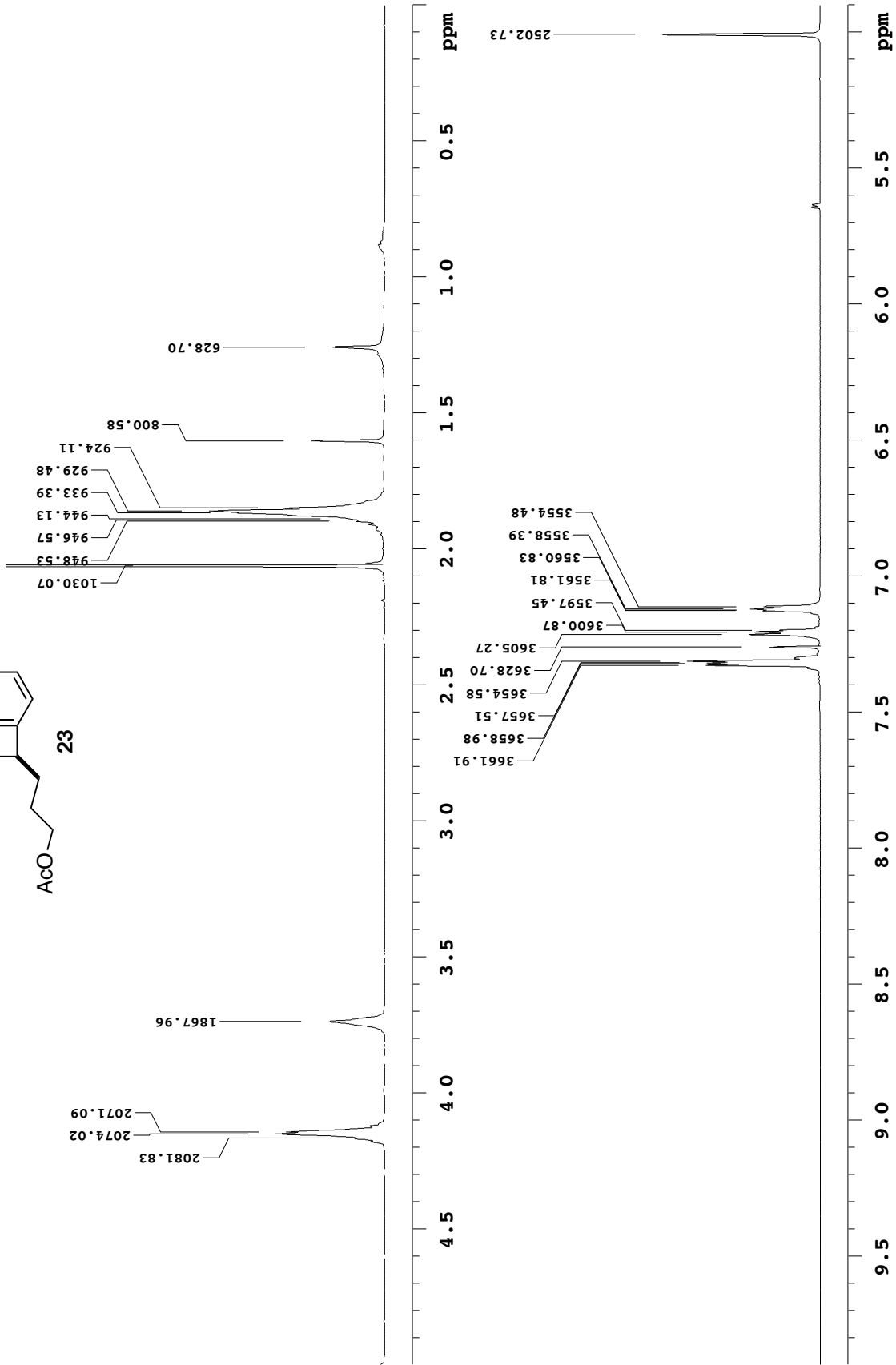
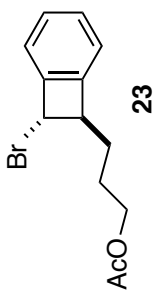
Resol. enhancement 1.0 Hz

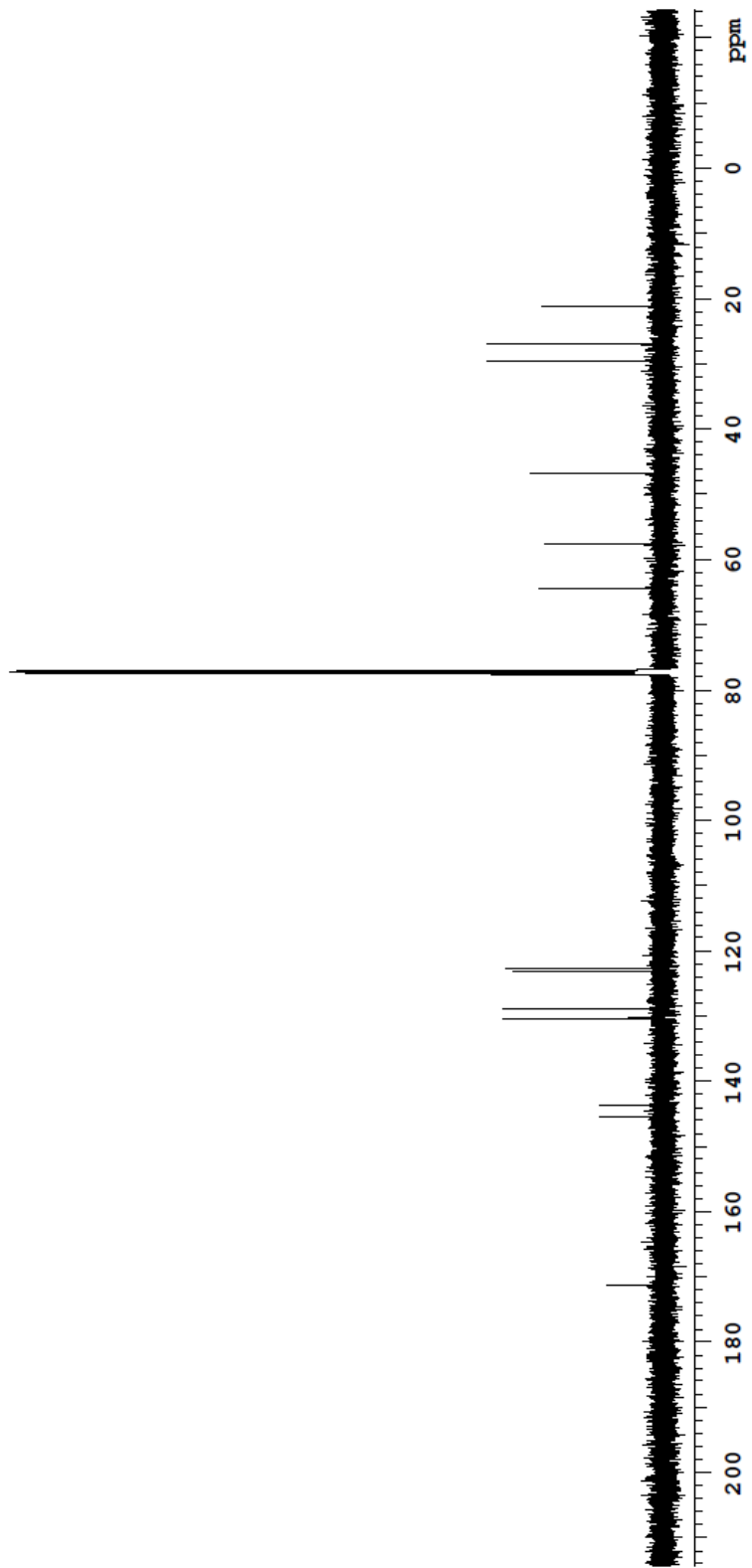
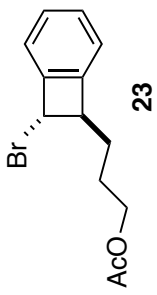
Gauss apodization 0.600 sec

FT size 32768

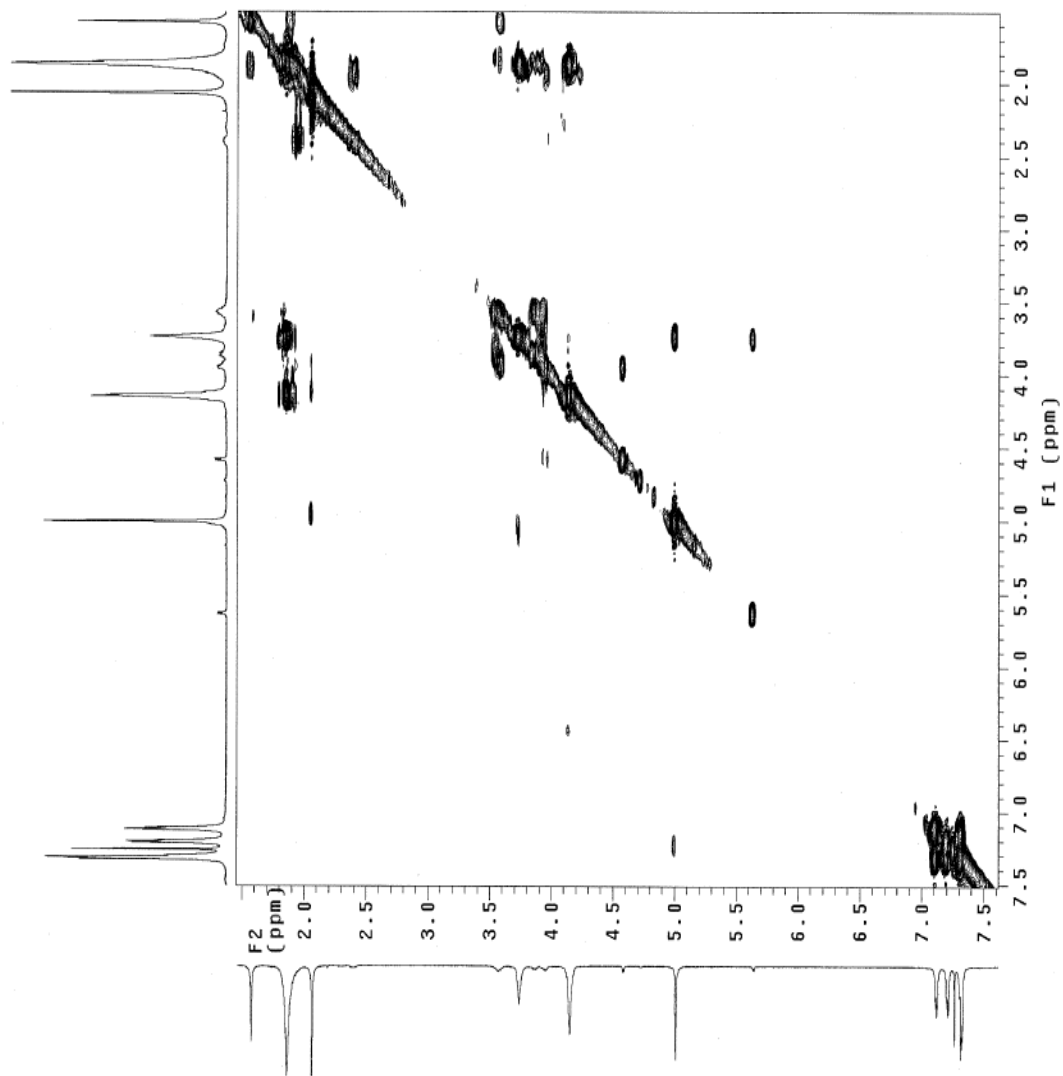
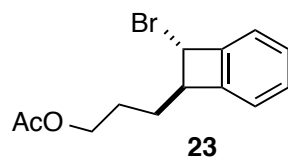
Total time 2 min, 4 sec





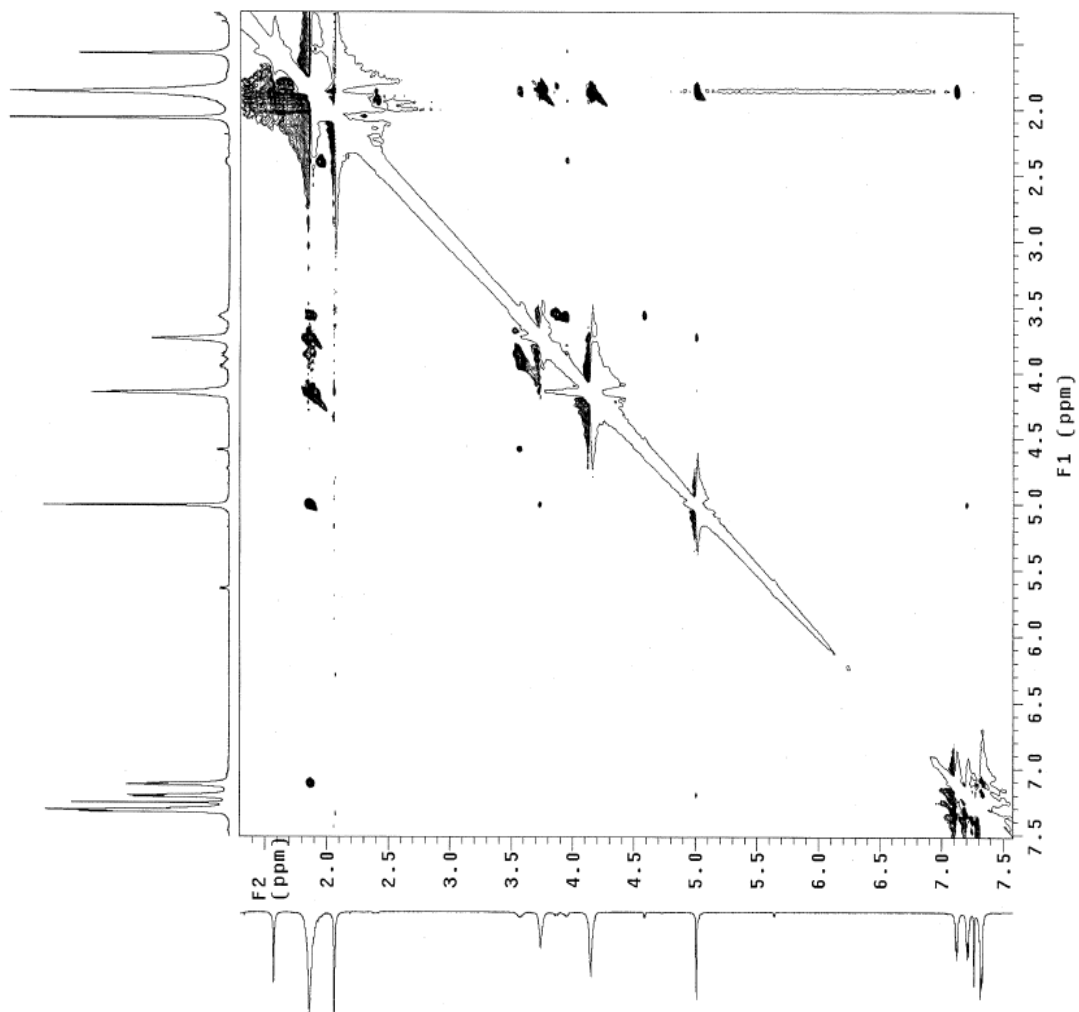
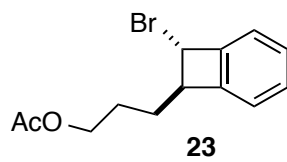


gCOSY spectrum of compound **23** in CDCl<sub>3</sub>

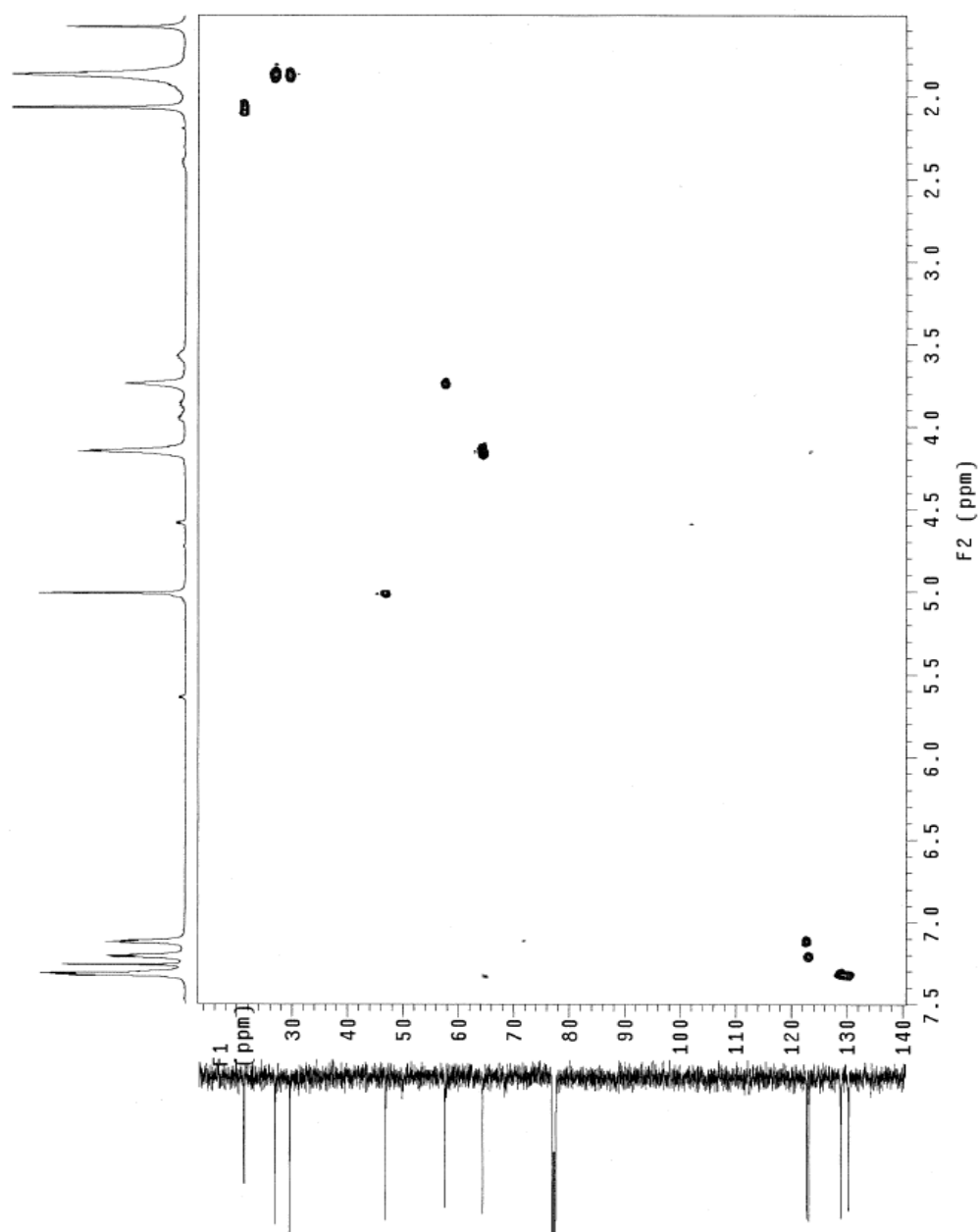
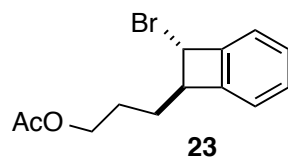




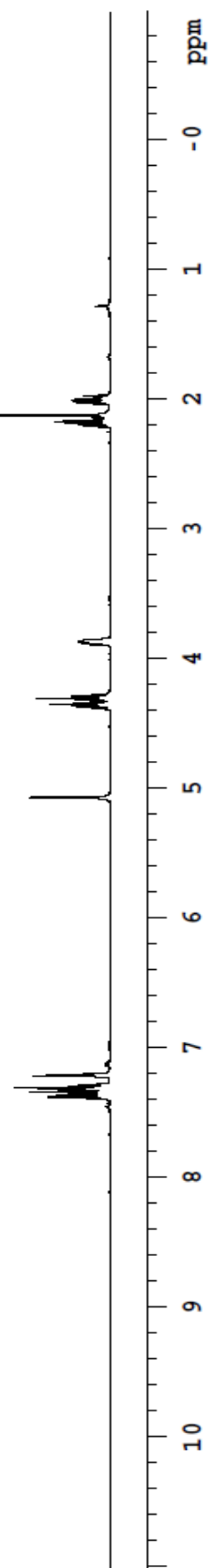
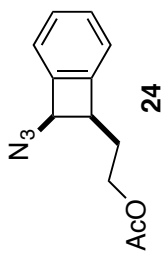
NOESY spectrum of compound **23** in CDCl<sub>3</sub>

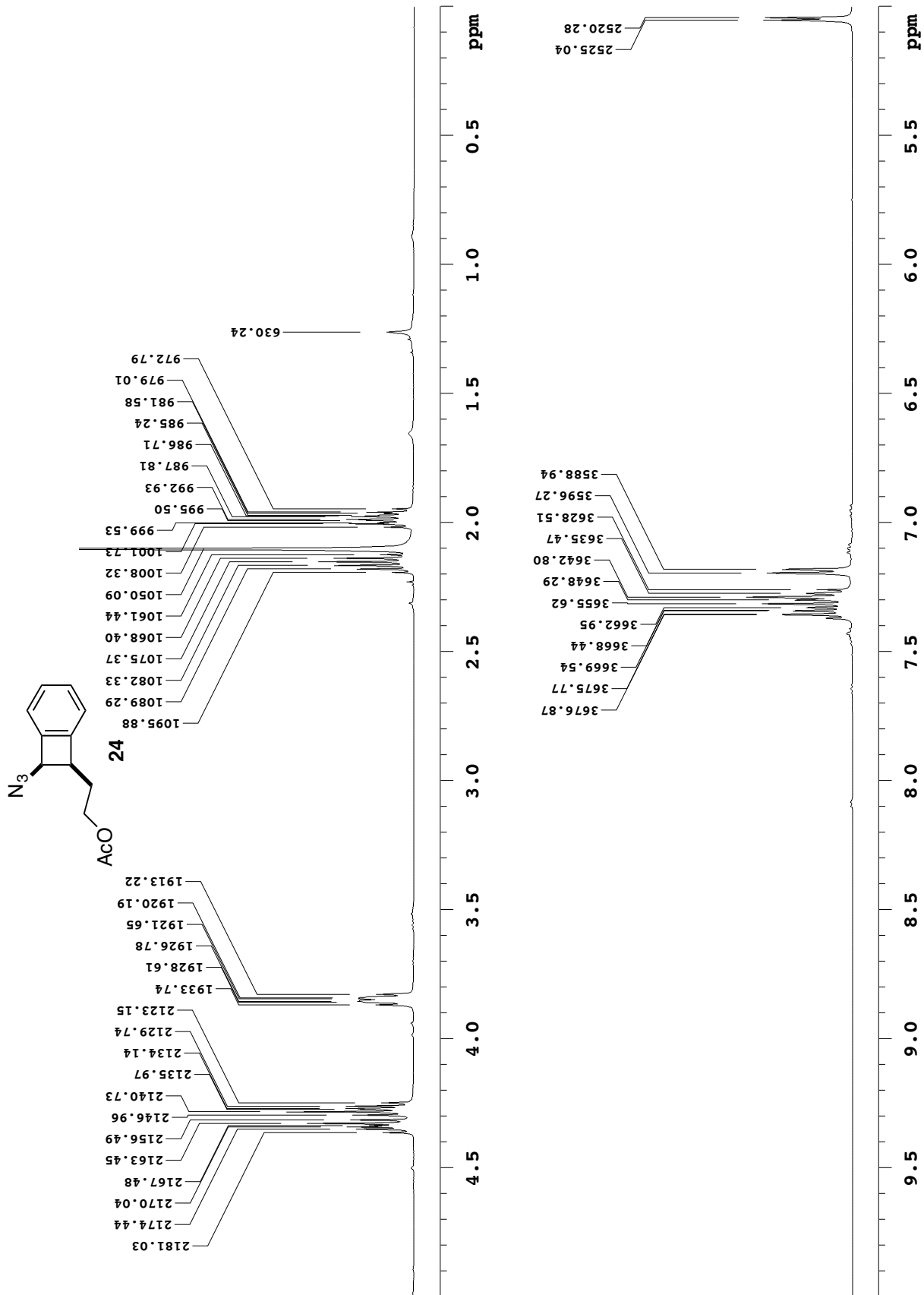


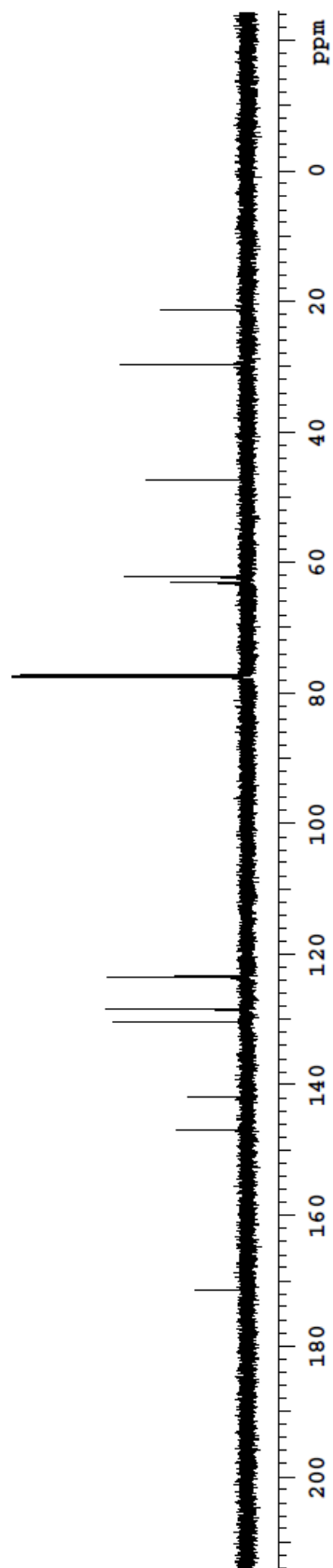
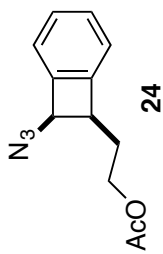
gHMQC spectrum of compound **23** in CDCl<sub>3</sub>



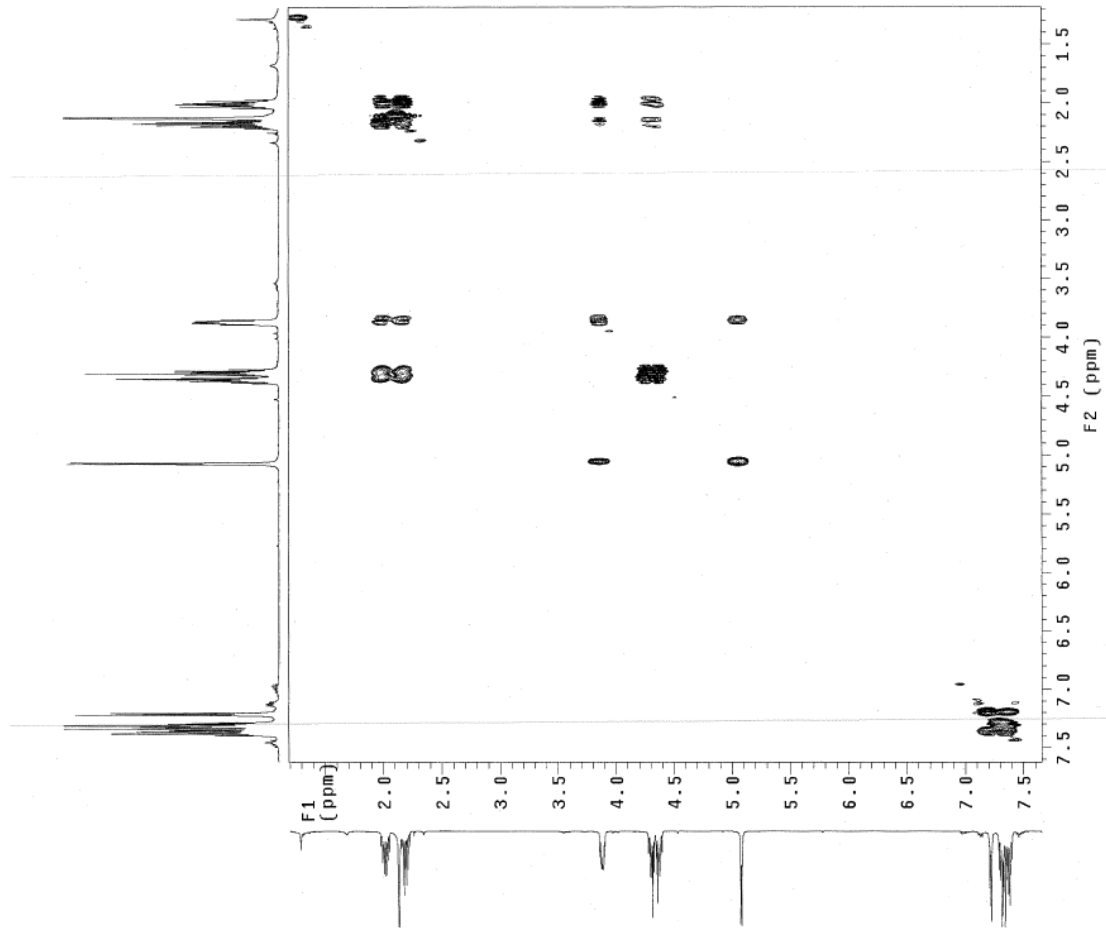
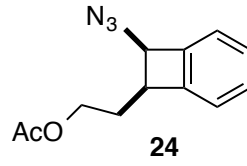






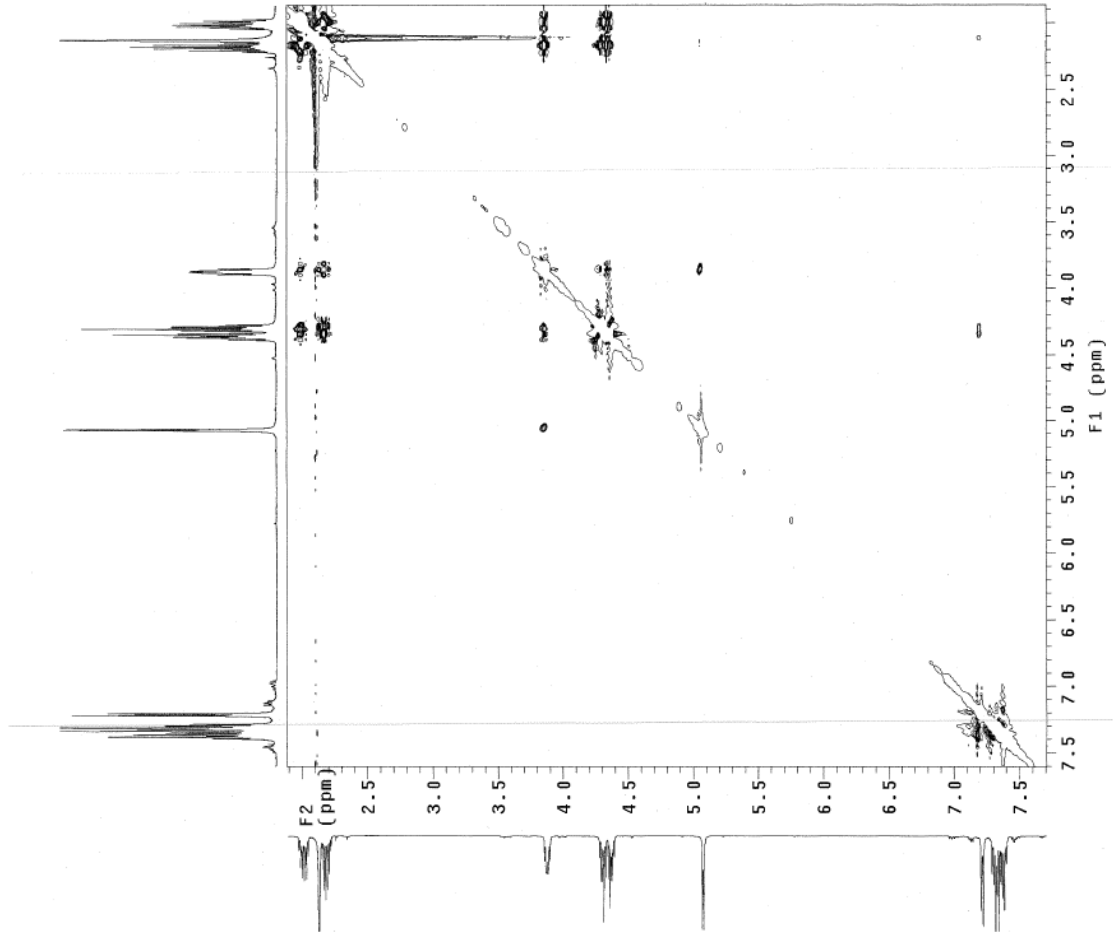
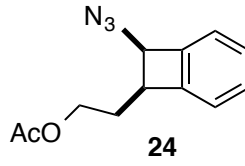


gCOSY spectrum of compound **24** in CDCl<sub>3</sub>



1205-Vijay-04-11-gCOSY-CDCl3  
Pulse Sequence: gCOSY  
Solvent: CDCl3  
Temp: 25.0 C / 298.1 K  
Operator: Vijay  
Date\_1205-Vijay-04-11-gCOSY-CDCl3  
INOVA-500 "riga"  
Relax. delay 1.000 sec  
Acq. time 0.170 sec  
Width 6012.8 Hz  
ZD Width 6012.8 Hz  
F2 132.91 MHz  
132 F2 channels  
OBSERVE F1: 499.770201 MHz  
DATA PROCESSING  
Sf. sine bell 0.885 sec  
F2 Data PROCESSING  
F1 0.000000 sec  
F2 0.000000 sec  
FT size 2048 x 2048  
Total time 1 hr. 32 min. 24 sec

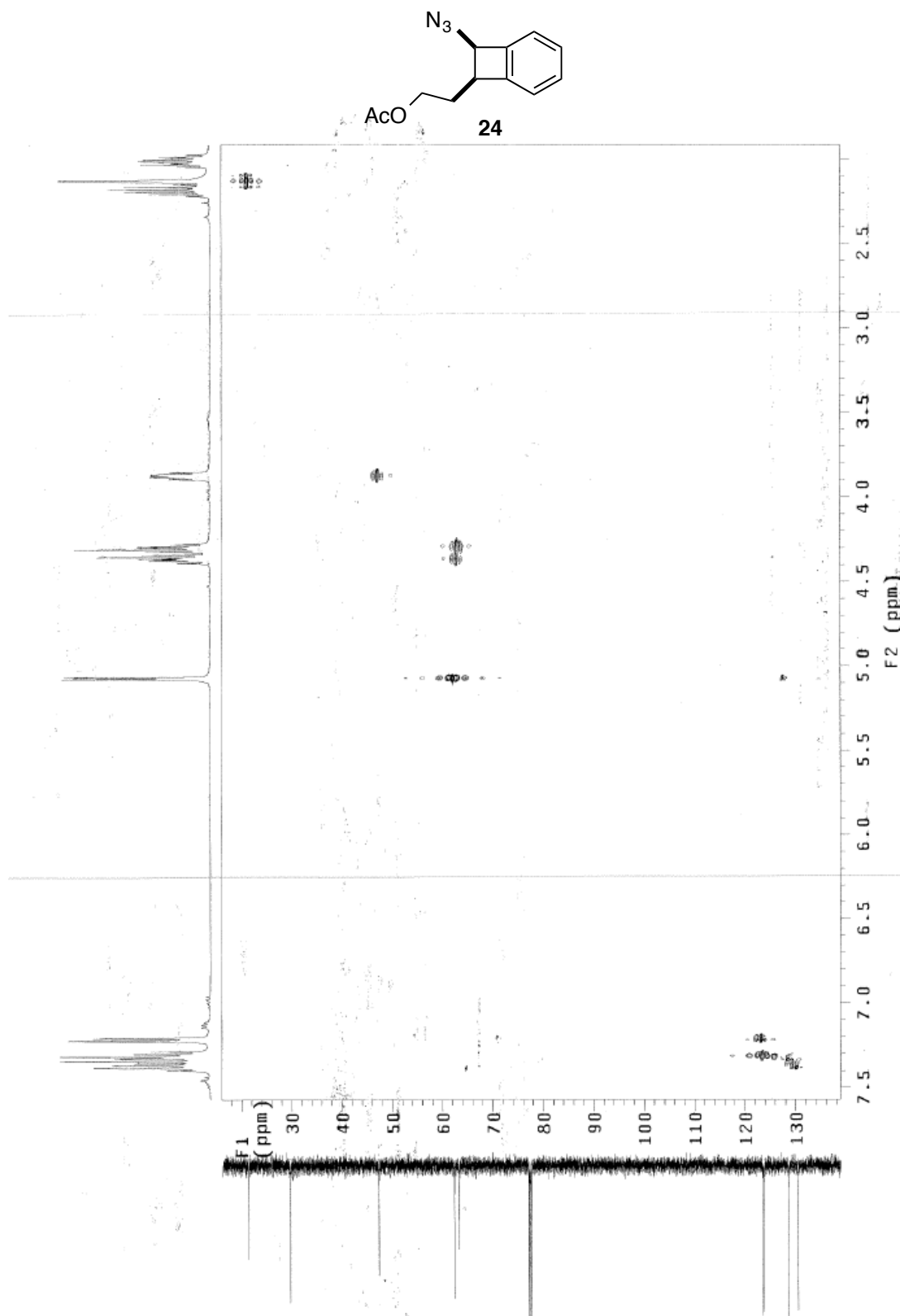
NOESY spectrum of compound **24** in CDCl<sub>3</sub>



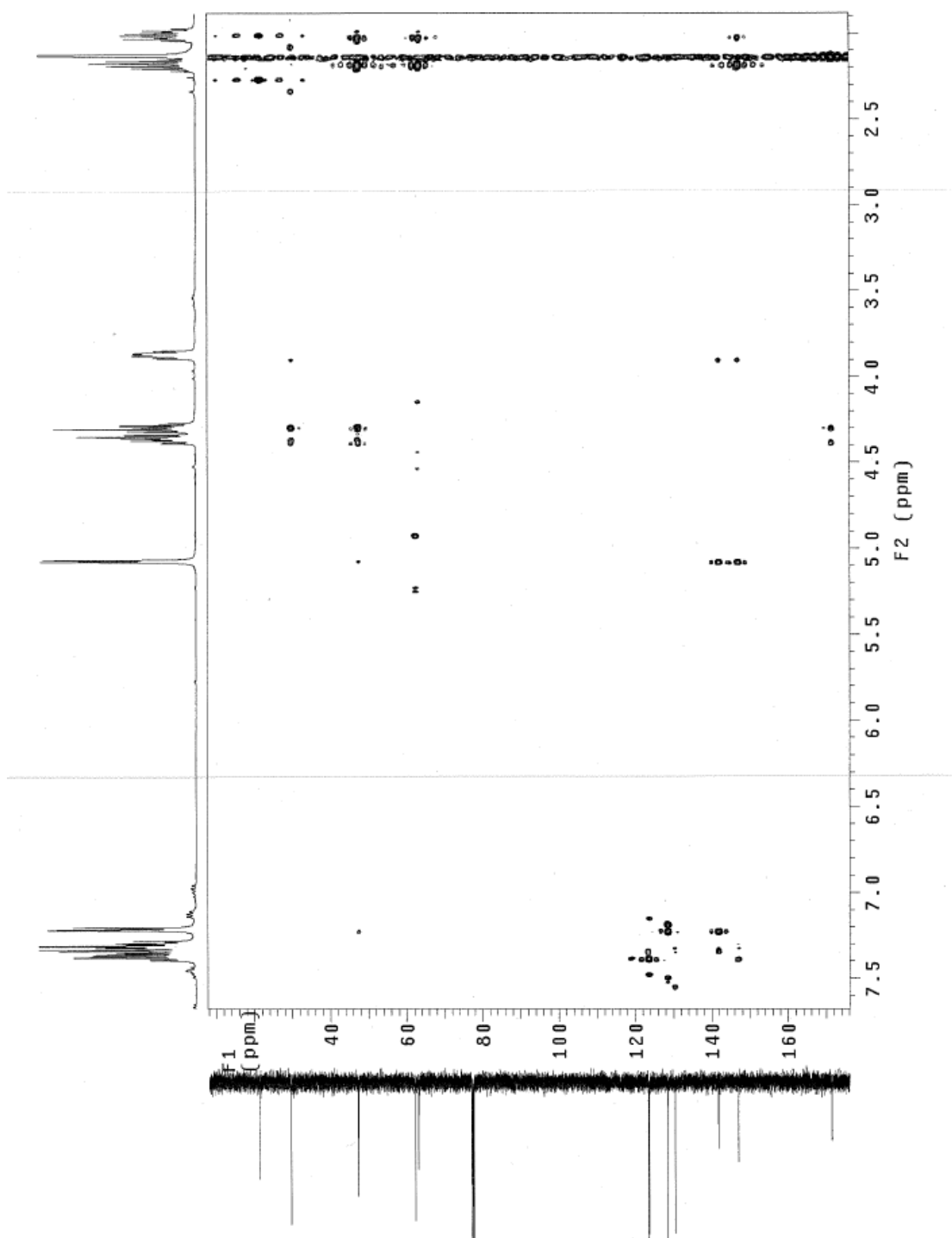
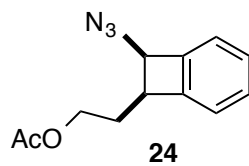
1205-Vijay-04-11-NOESY-CDCl3  
Pulse Sequence: NOESY  
Solvent: CDCl3  
Temp: 25.0 C / 298.1 K  
File: 1205-Vijay-04-11-NOESY-CDCl3  
INOVA-500 "riga"  
Relax. delay 1.000 sec  
Mixing 0.400 sec  
Acq. time 0.170 sec  
Width 6014.6 Hz  
F2 Width 6014.6 Hz  
1.000 sec  
2 x 192 increments  
OBSERVE H1, 499.7707210 MHz  
DATA PROCESSING  
Gauss apodization 0.079 sec  
F2 apodization 0.031 sec  
F2 size 2048 x 2048  
Total time 2 hr, 45 min, 3 sec



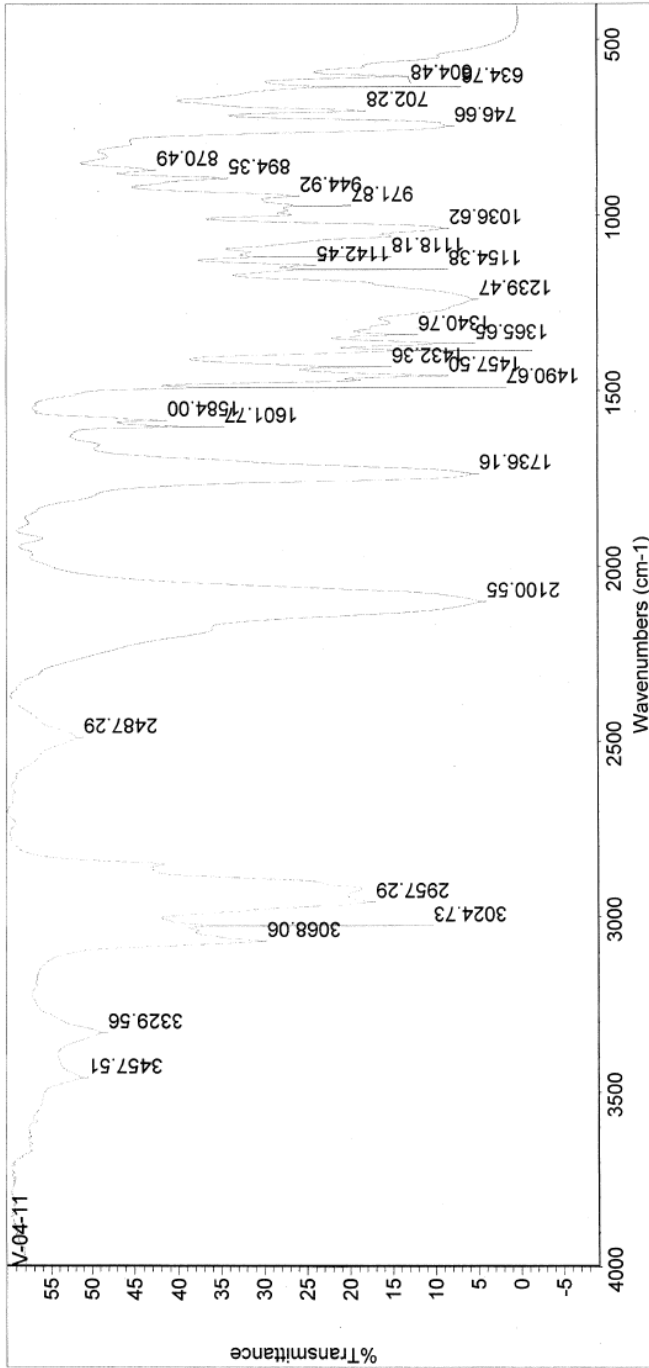
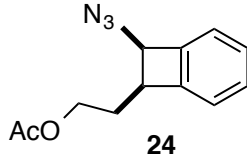
gHMQC spectrum of compound **24** in CDCl<sub>3</sub>



HMBC spectrum of compound **24** in CDCl<sub>3</sub>



IR spectrum of compound 24

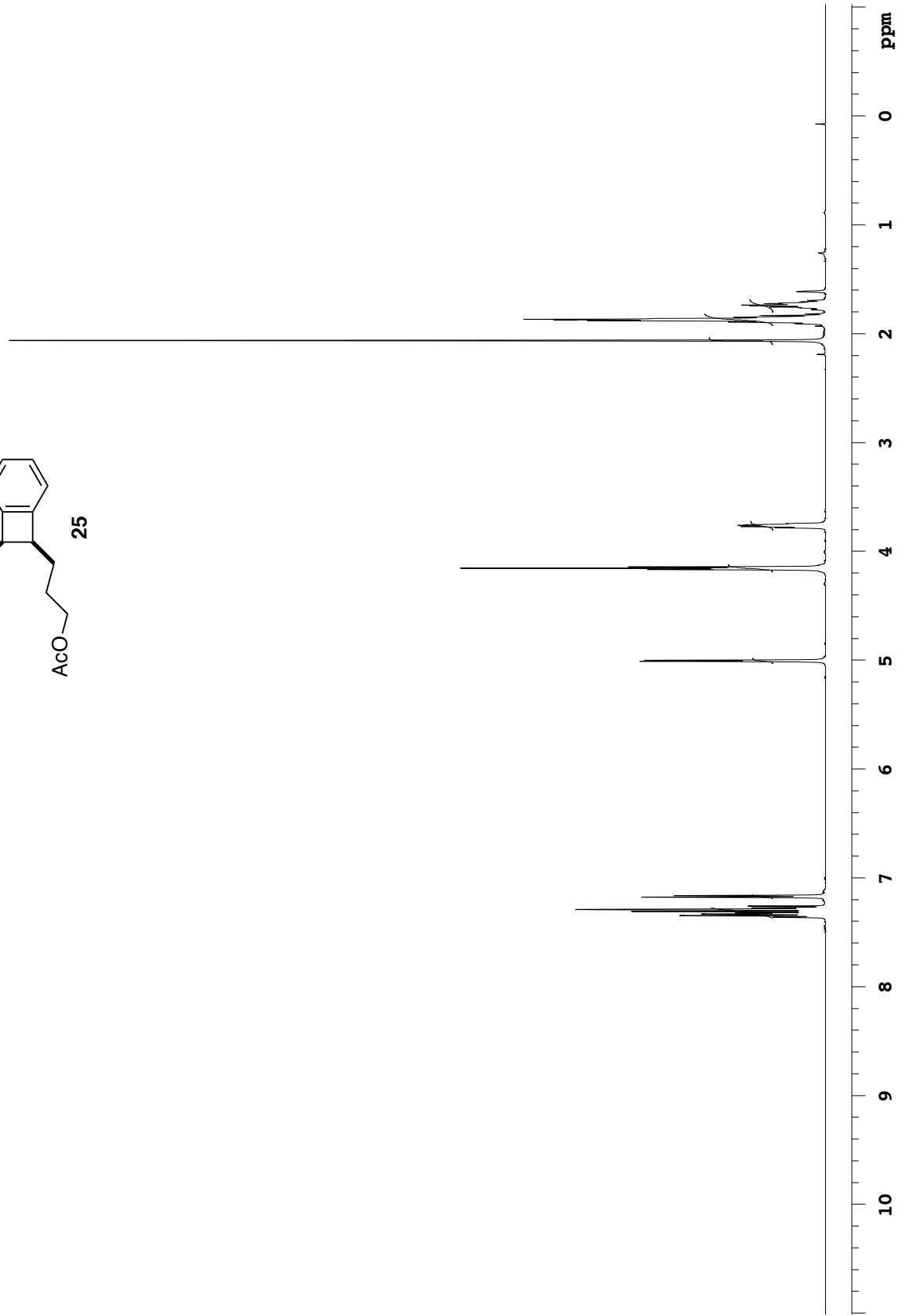
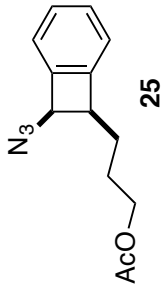


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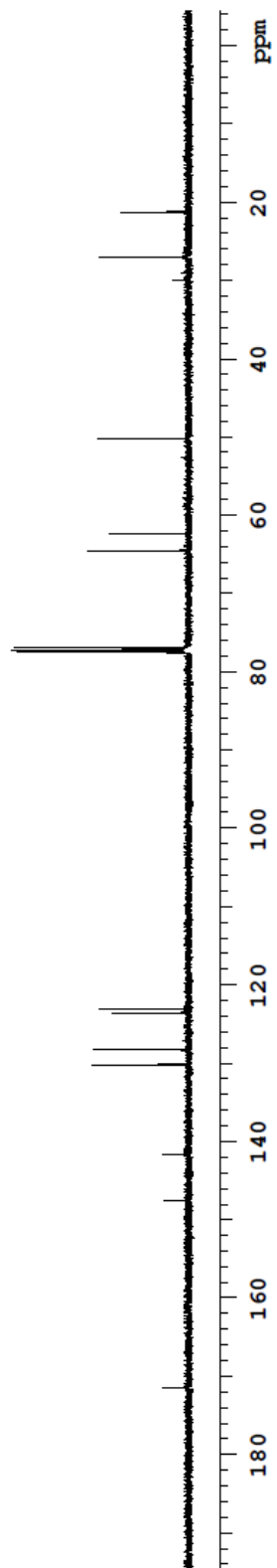
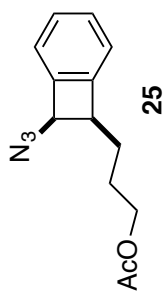
FIND PEAKS:

Spectrum: V-04-11  
 Region: 4000.00 400.00  
 Absolute threshold: 52.320  
 Sensitivity: 50  
 Peak list:

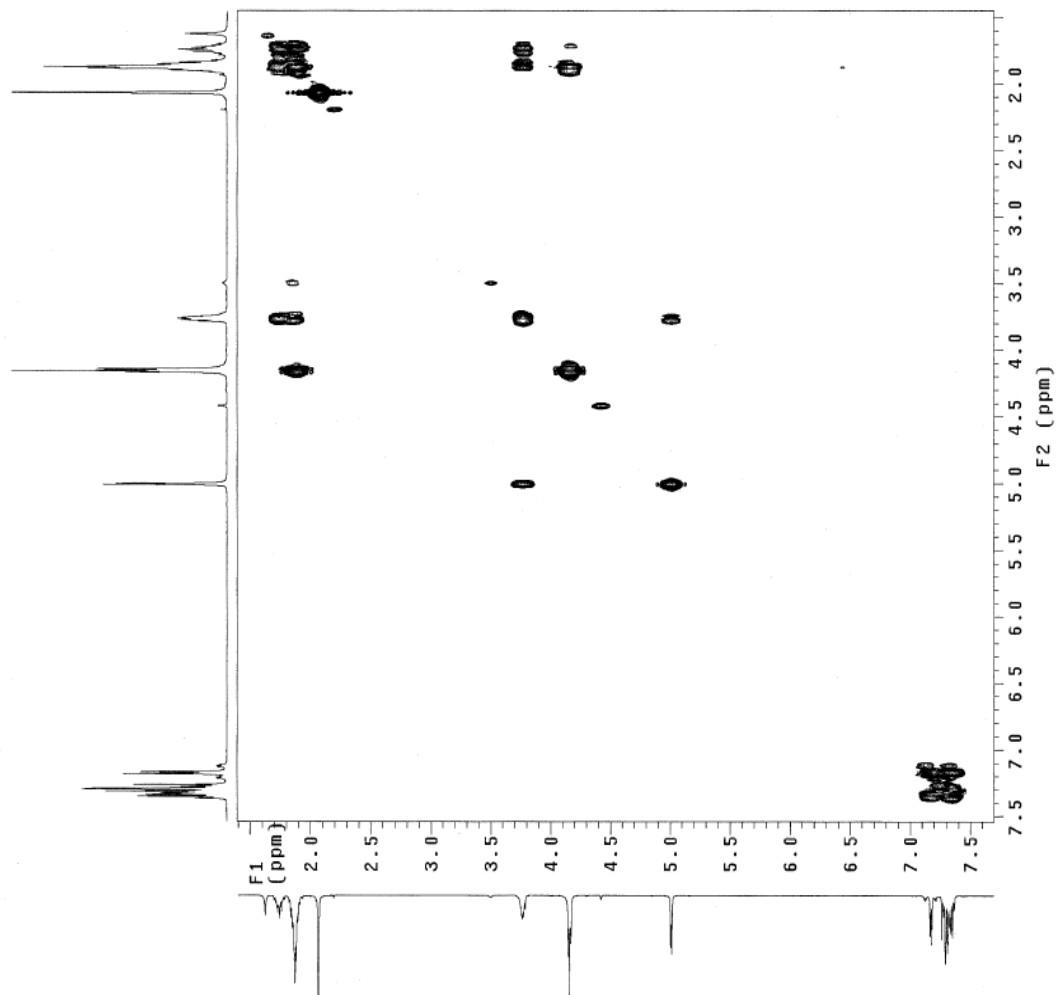
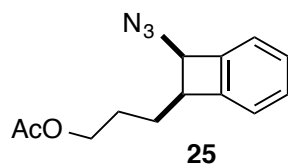
Position:	Intensity:
604.48	13.572
634.76	23.875
702.28	18.801
746.66	8.528
870.49	43.264
894.35	34.868
944.92	26.590
971.87	26.331



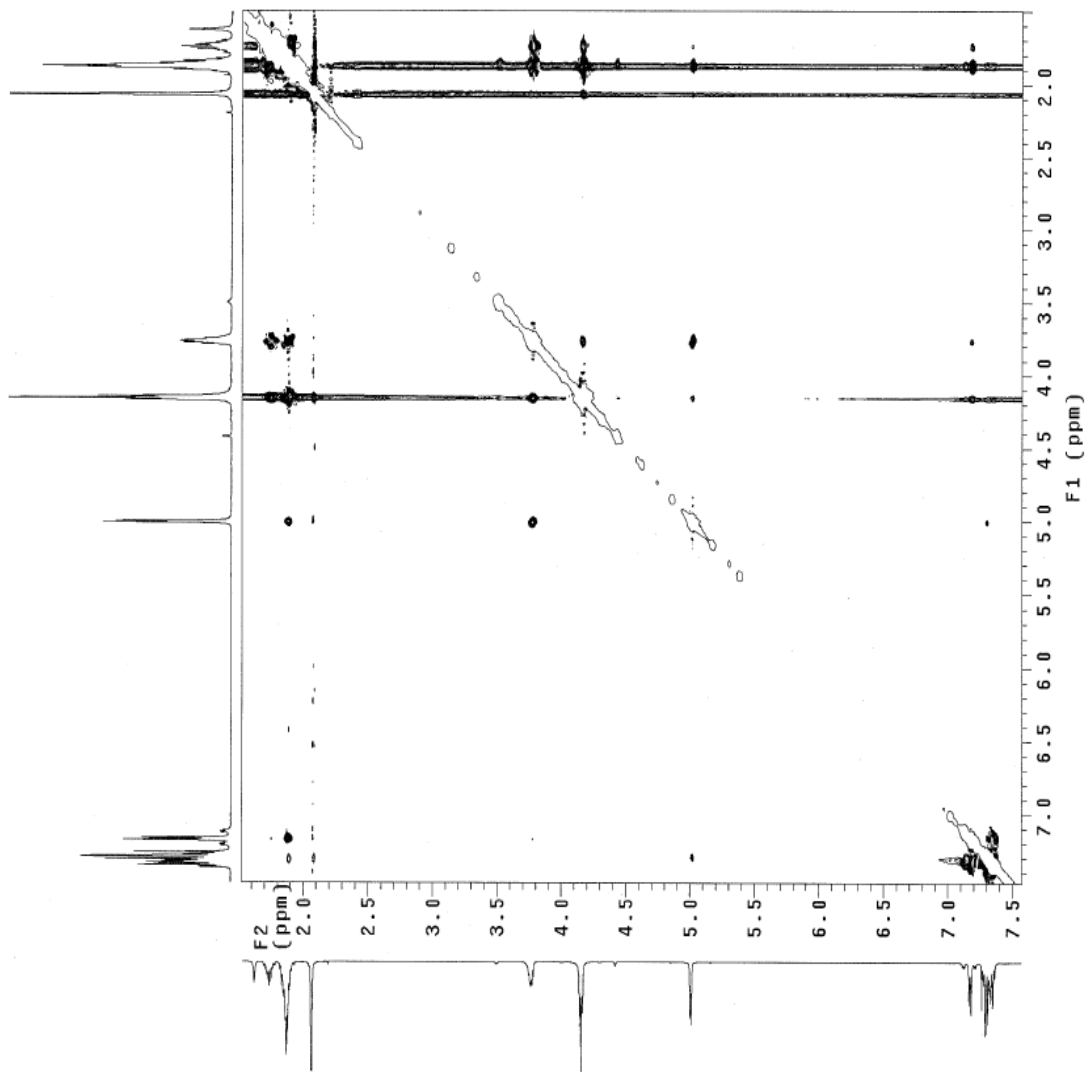
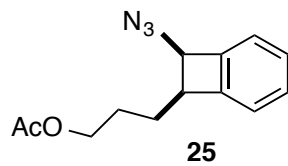




gCOSY spectrum of compound **25** in CDCl<sub>3</sub>

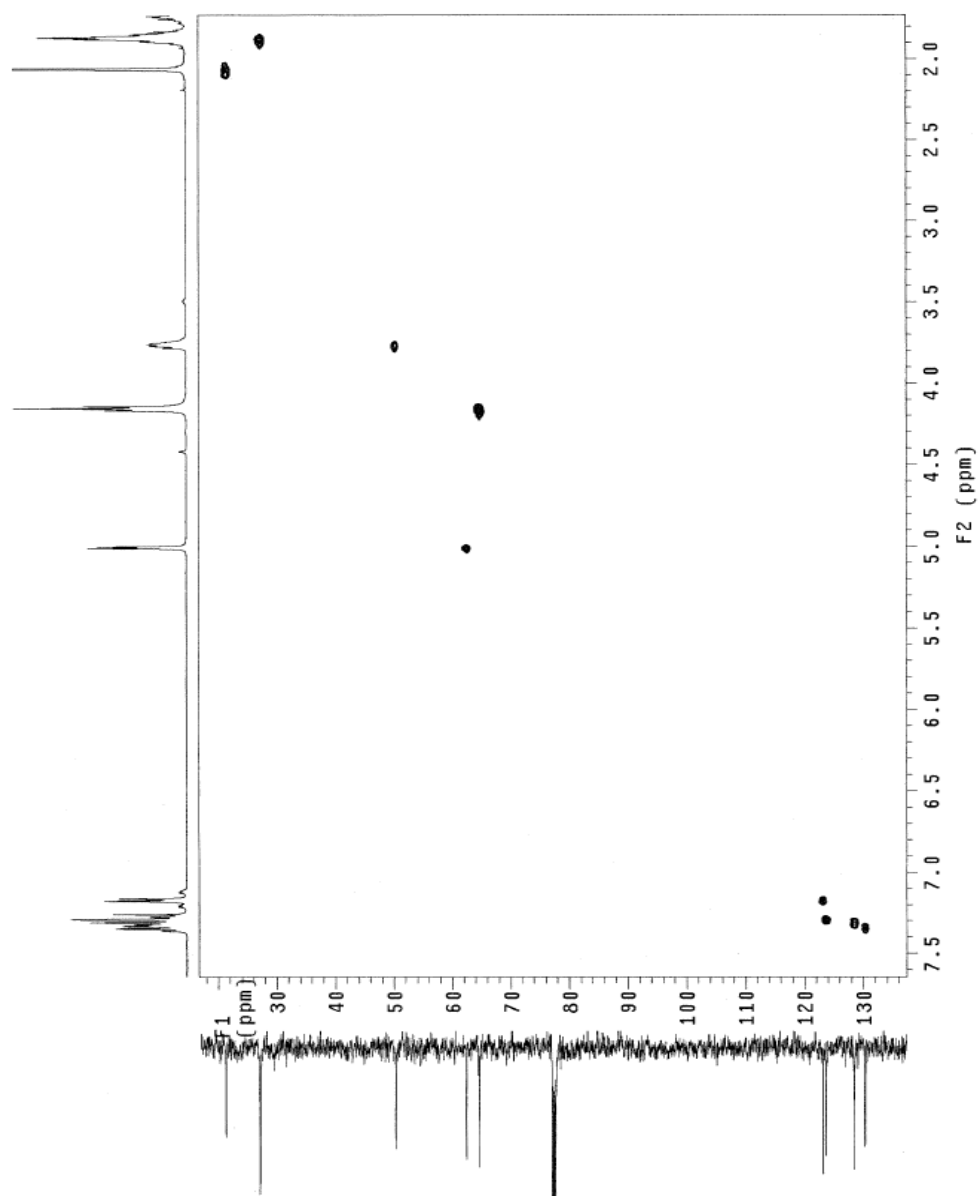
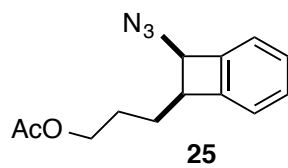


NOESY spectrum of compound **25** in CDCl<sub>3</sub>

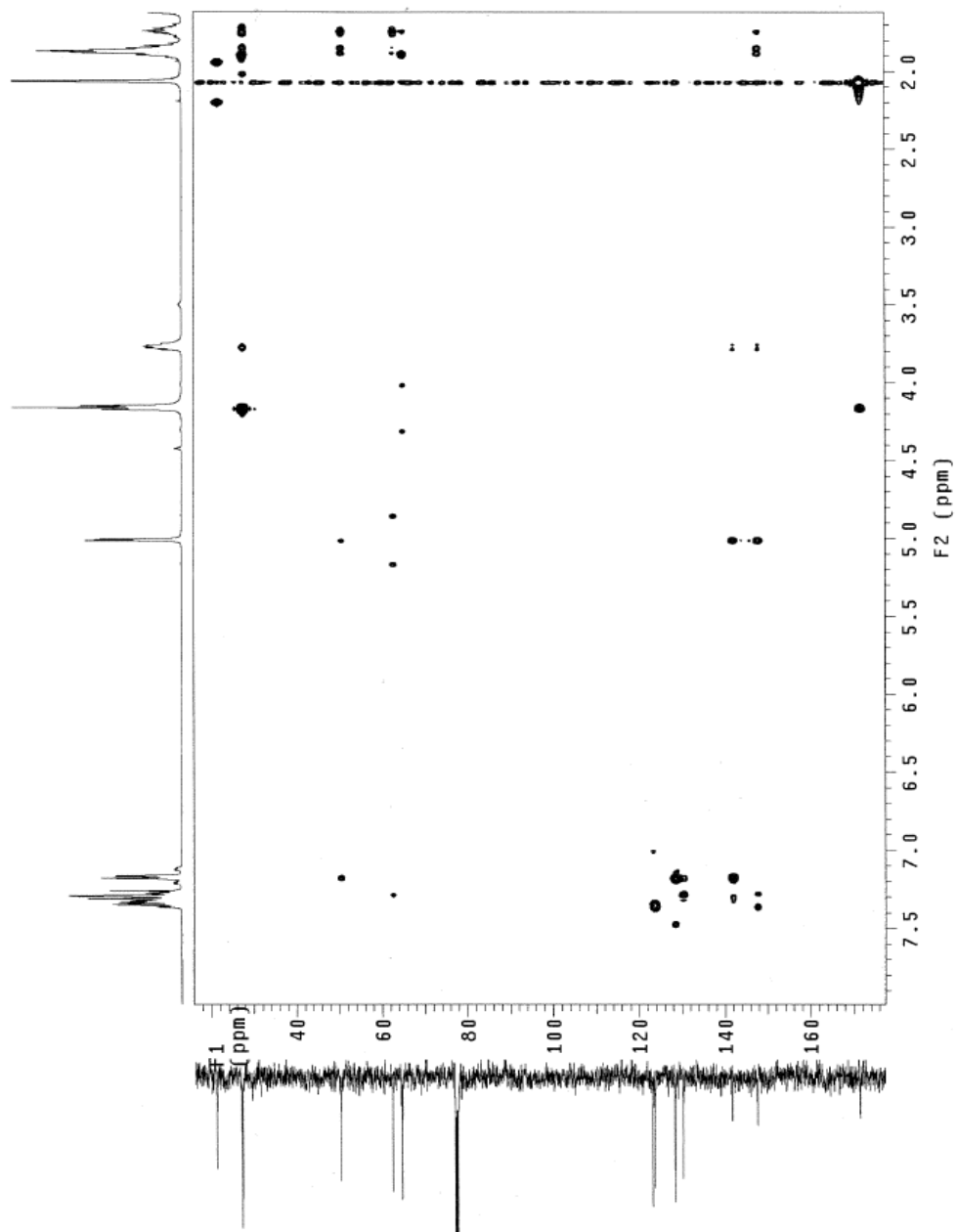
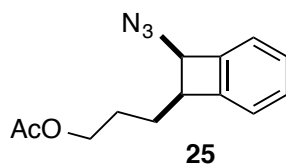




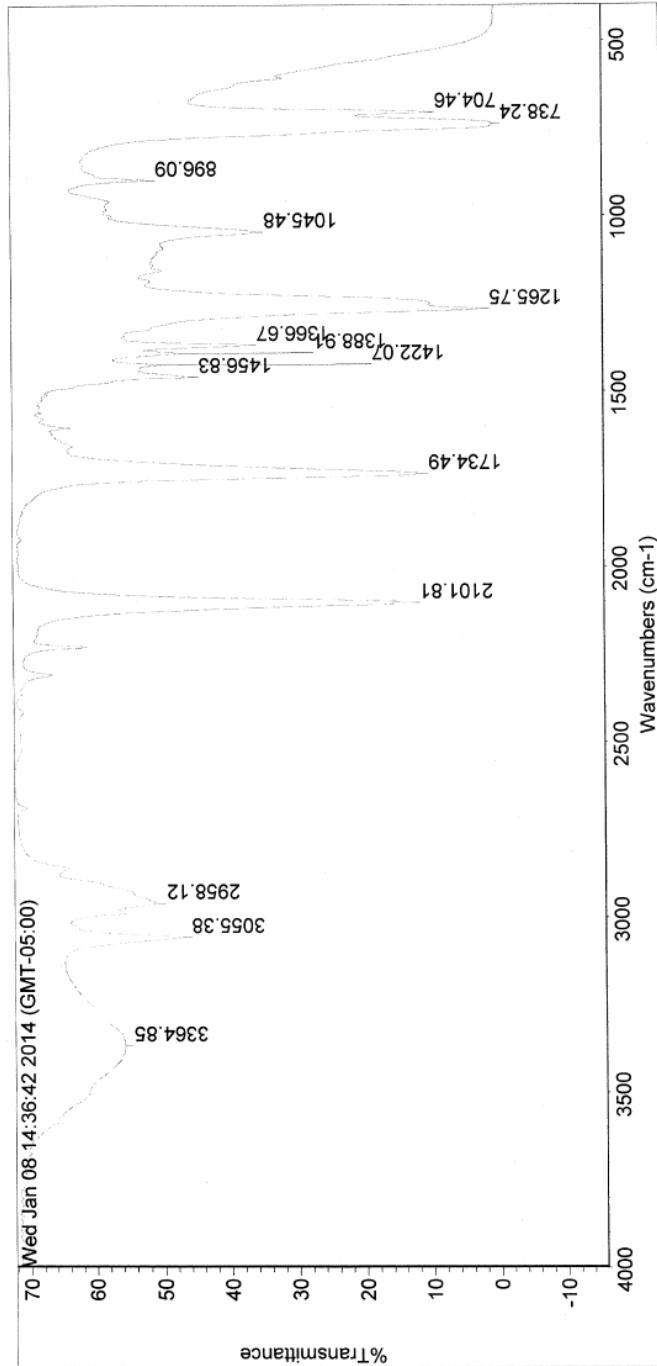
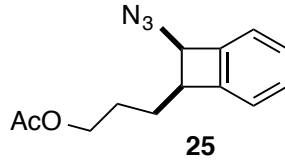
gHMQC spectrum of compound **25** in CDCl<sub>3</sub>



HBMC spectrum of compound **25** in CDCl<sub>3</sub>



IR spectrum of compound 25



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FIND PEAKS:

Spectrum: Wed Jan 08 14:36:42 2014 (GMT-05:00)  
 Region: 4000.00 400.00  
 Absolute threshold: 58.251  
 Sensitivity: 50

Position:	Intensity:
704.46	10.351
738.24	0.521
896.09	51.881
1045.48	35.829
1265.75	2.309
1366.67	37.014
1388.91	47.385
1422.07	50.353