

Supporting Information

Unexpected *N*-Glycosidation Reaction of Glycals with 1-Amino-anthracene: Structure Revision and Application to the Synthesis of New Analogues of Marmycin A

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Content

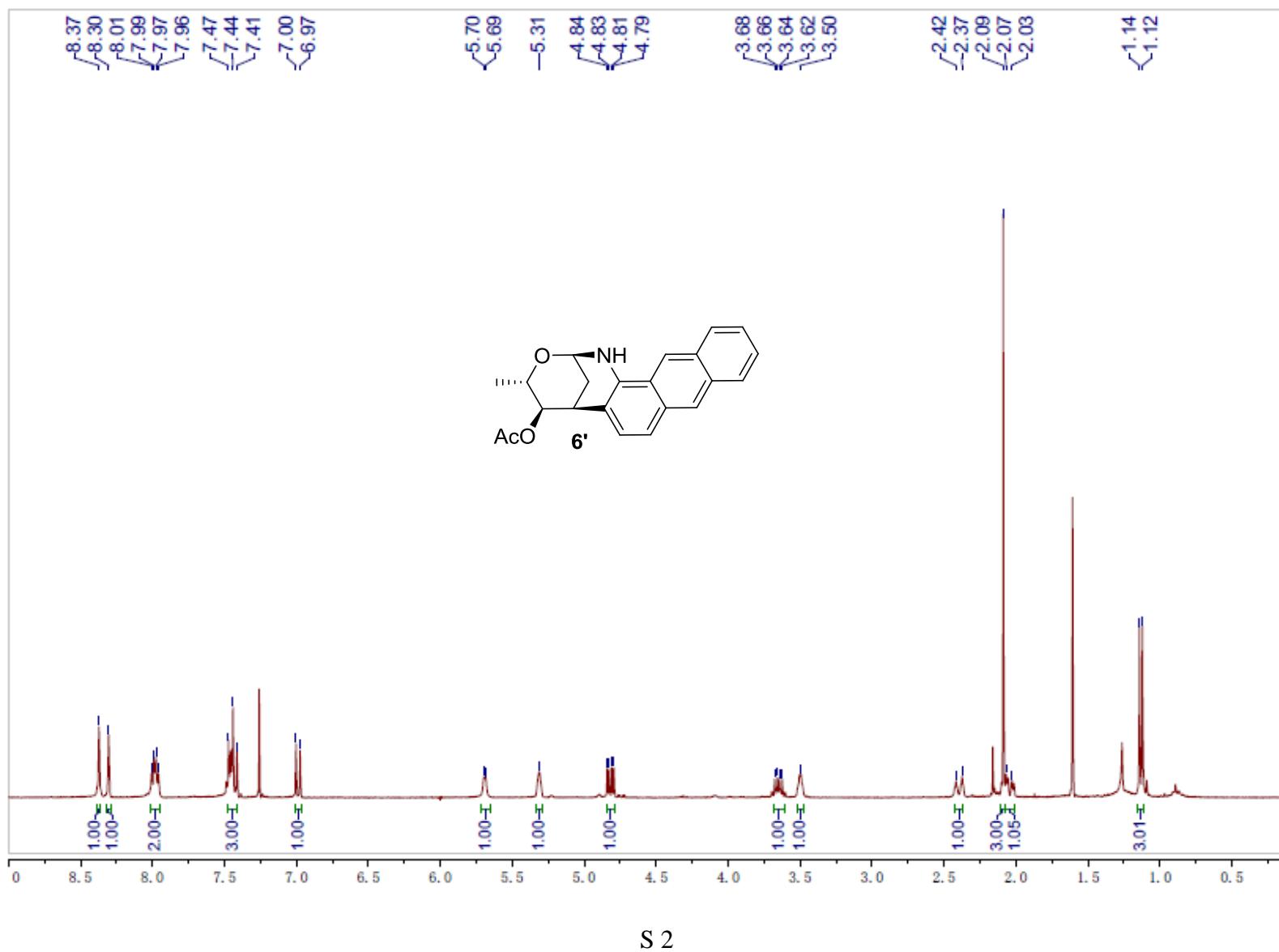
Spectroscopic Data for all new compounds	S2-S43
CD Spectra of compounds 22 and 23.....	S44-46

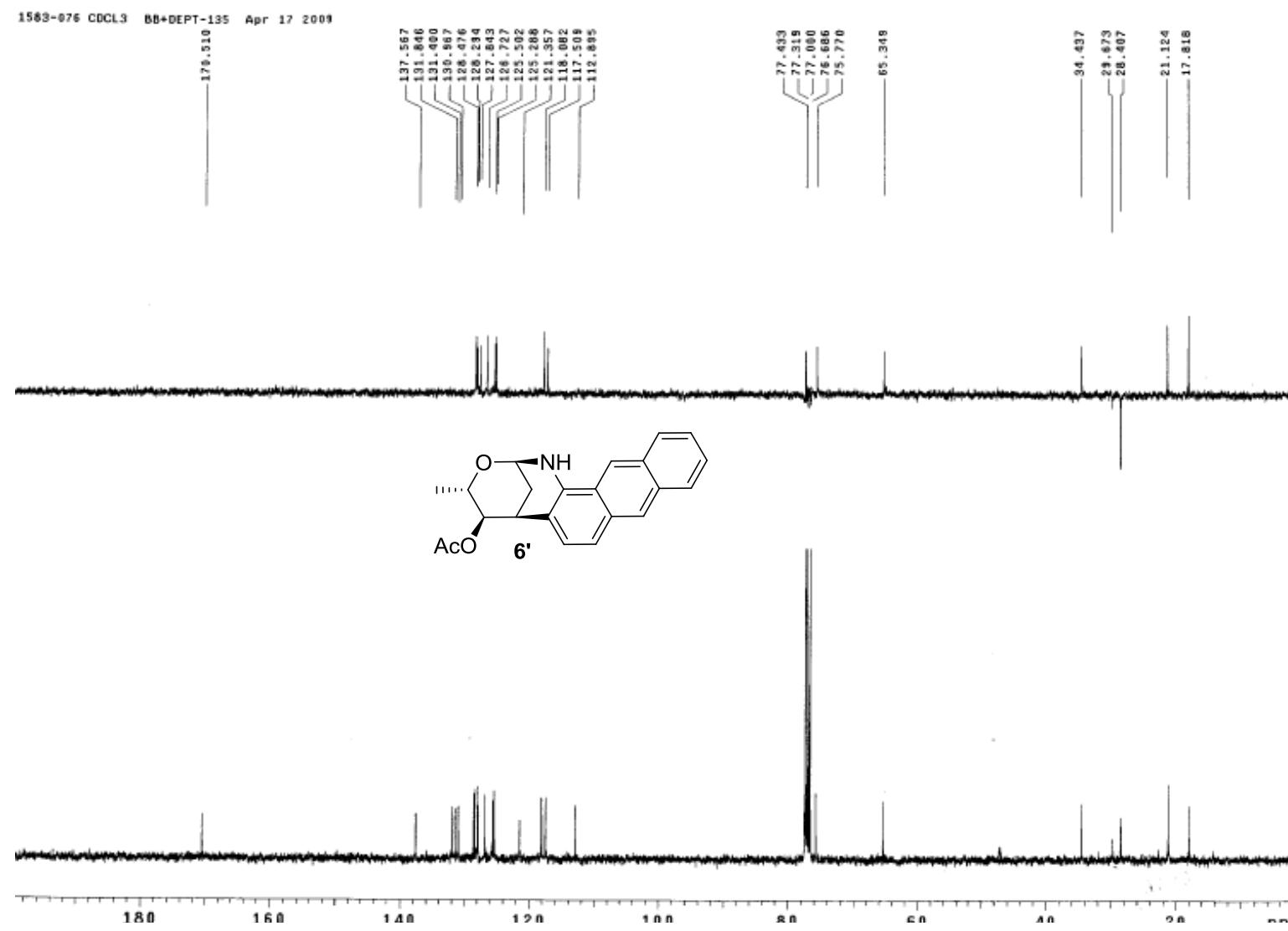
[†] Synthetic Organic & Medicinal Chemistry Laboratory (SOMCL), Shanghai Institute of Materia Medica (SIMM).

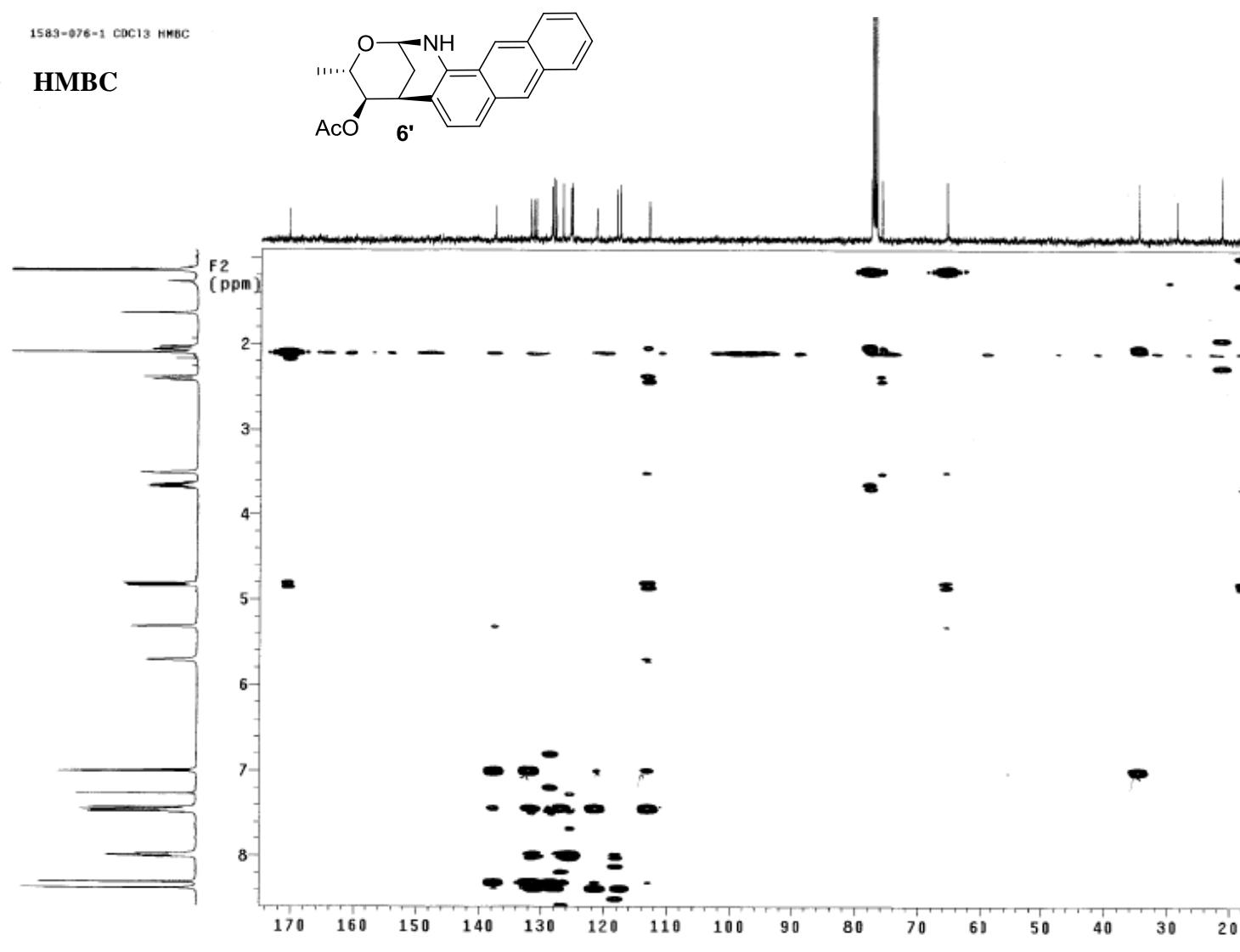
[‡] Department of Medicinal Chemistry, China Pharmaceutical University.

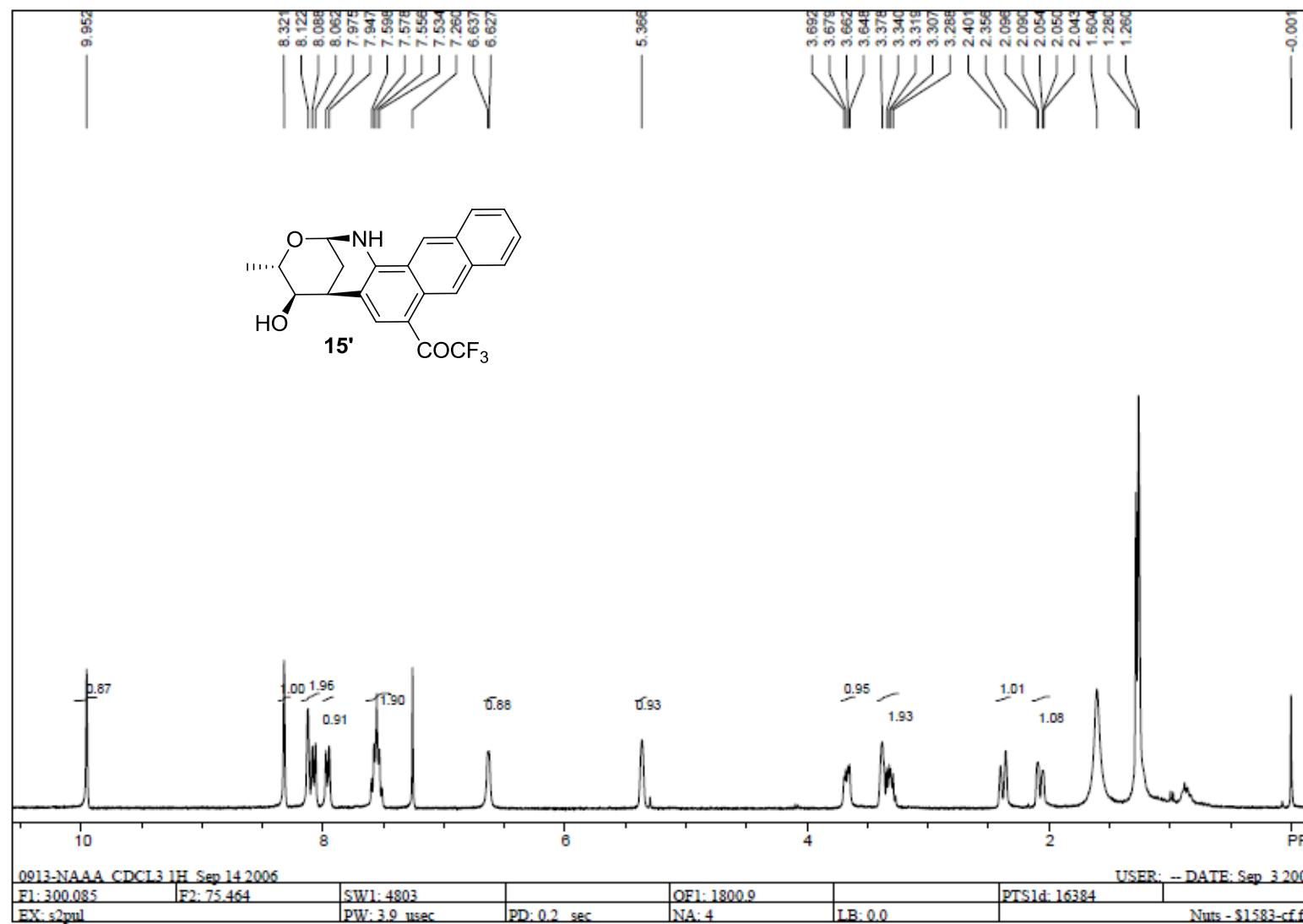
[#]These two authors contributed equally to this work.

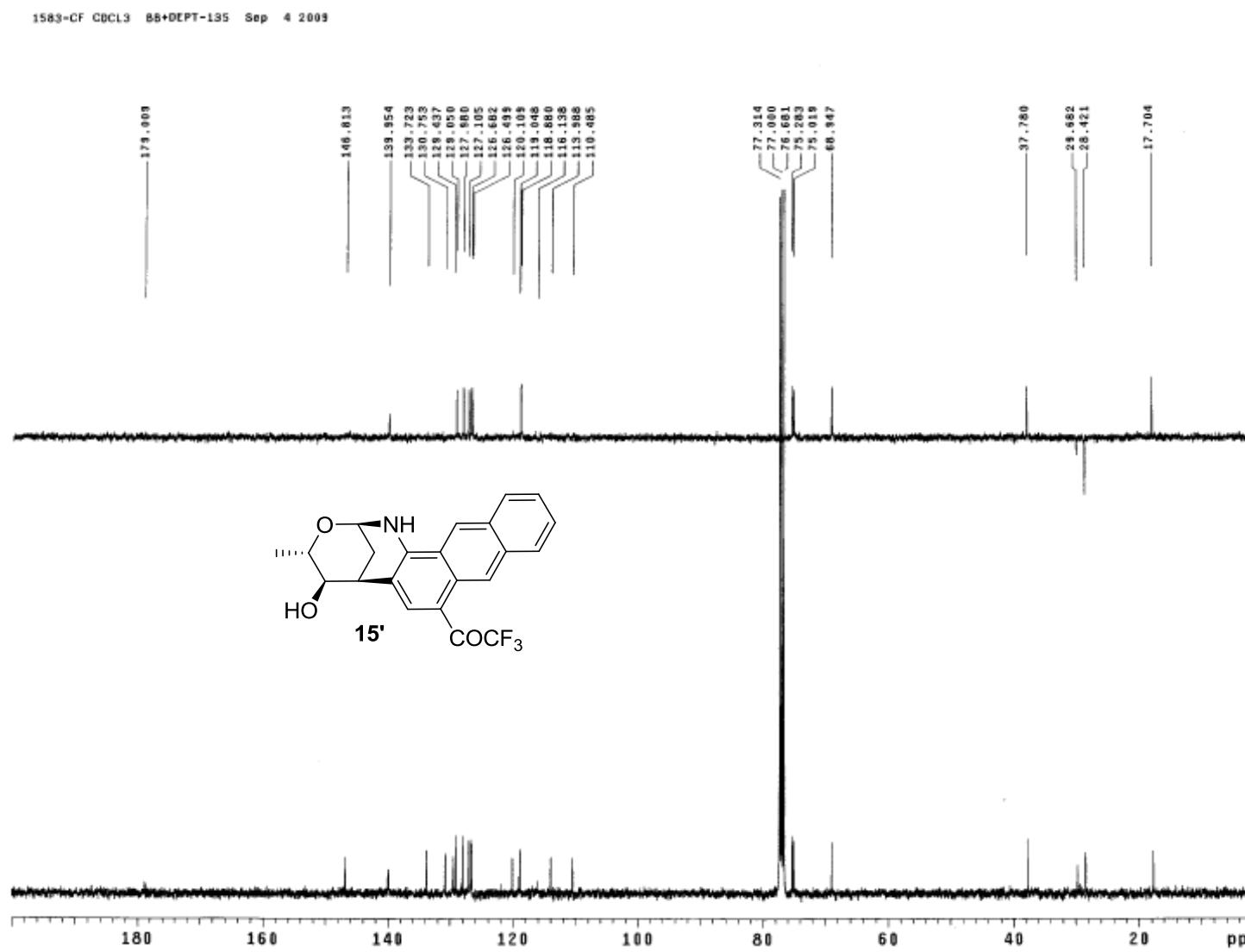
Spectroscopic Data for Products

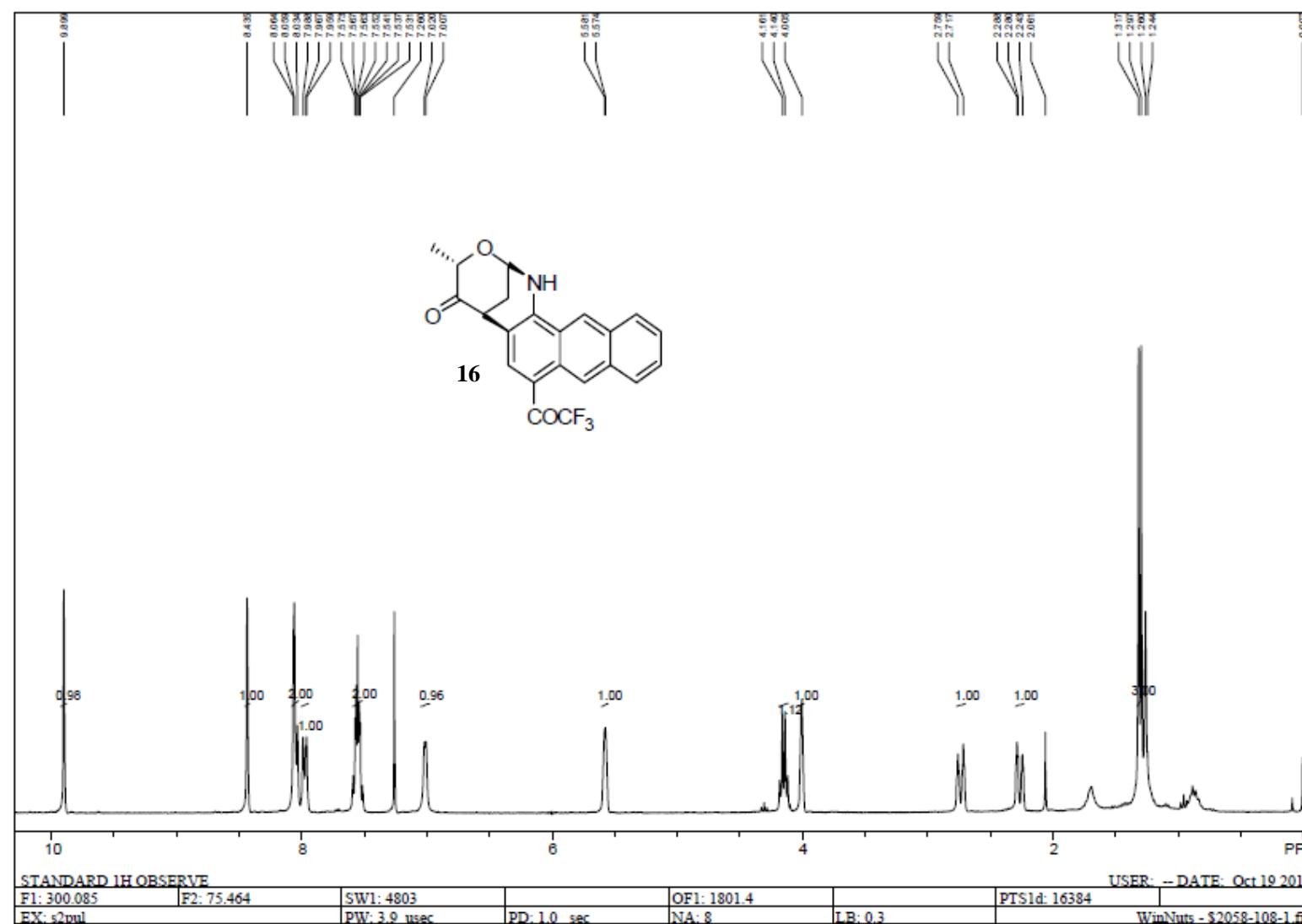


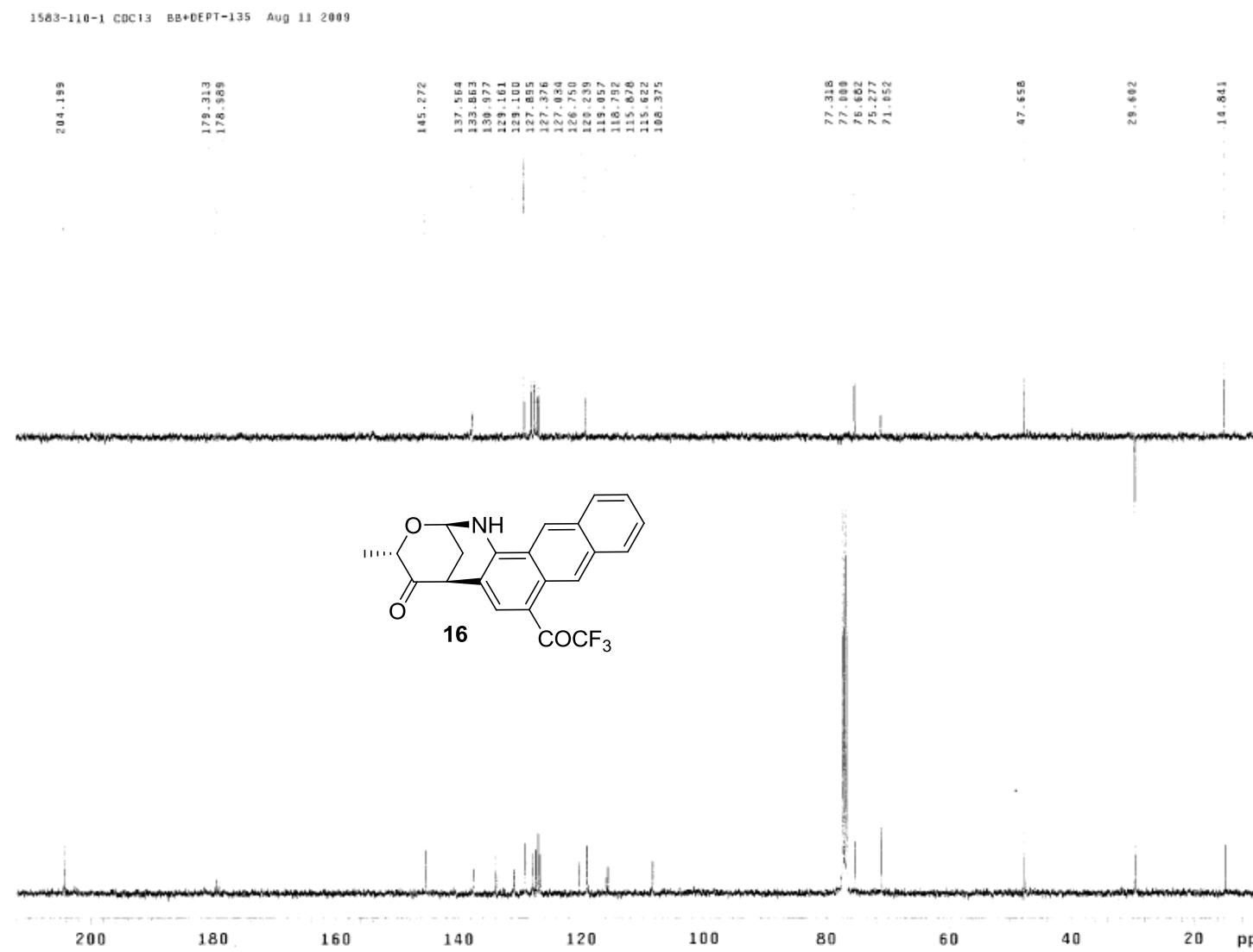


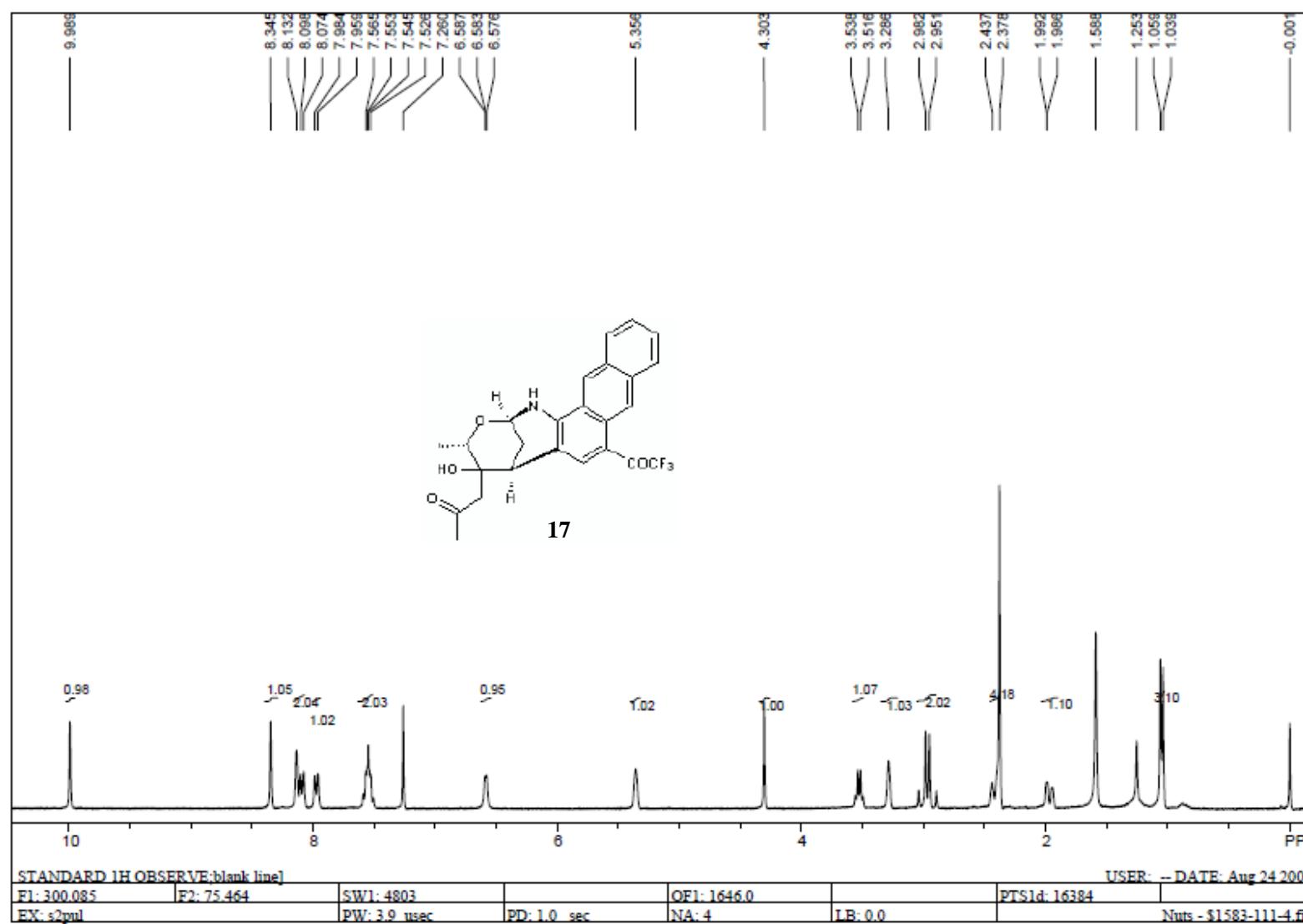


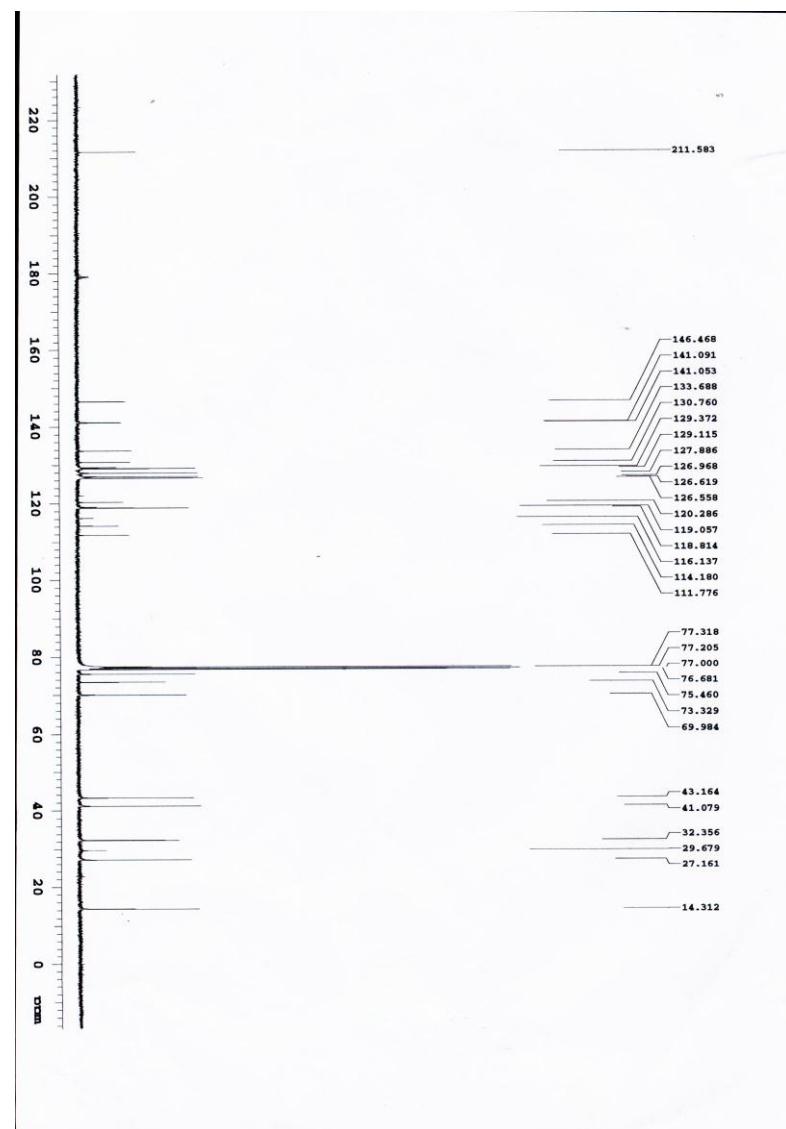
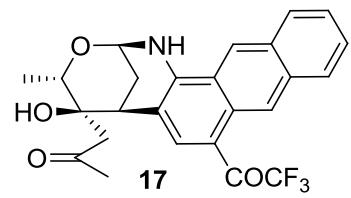


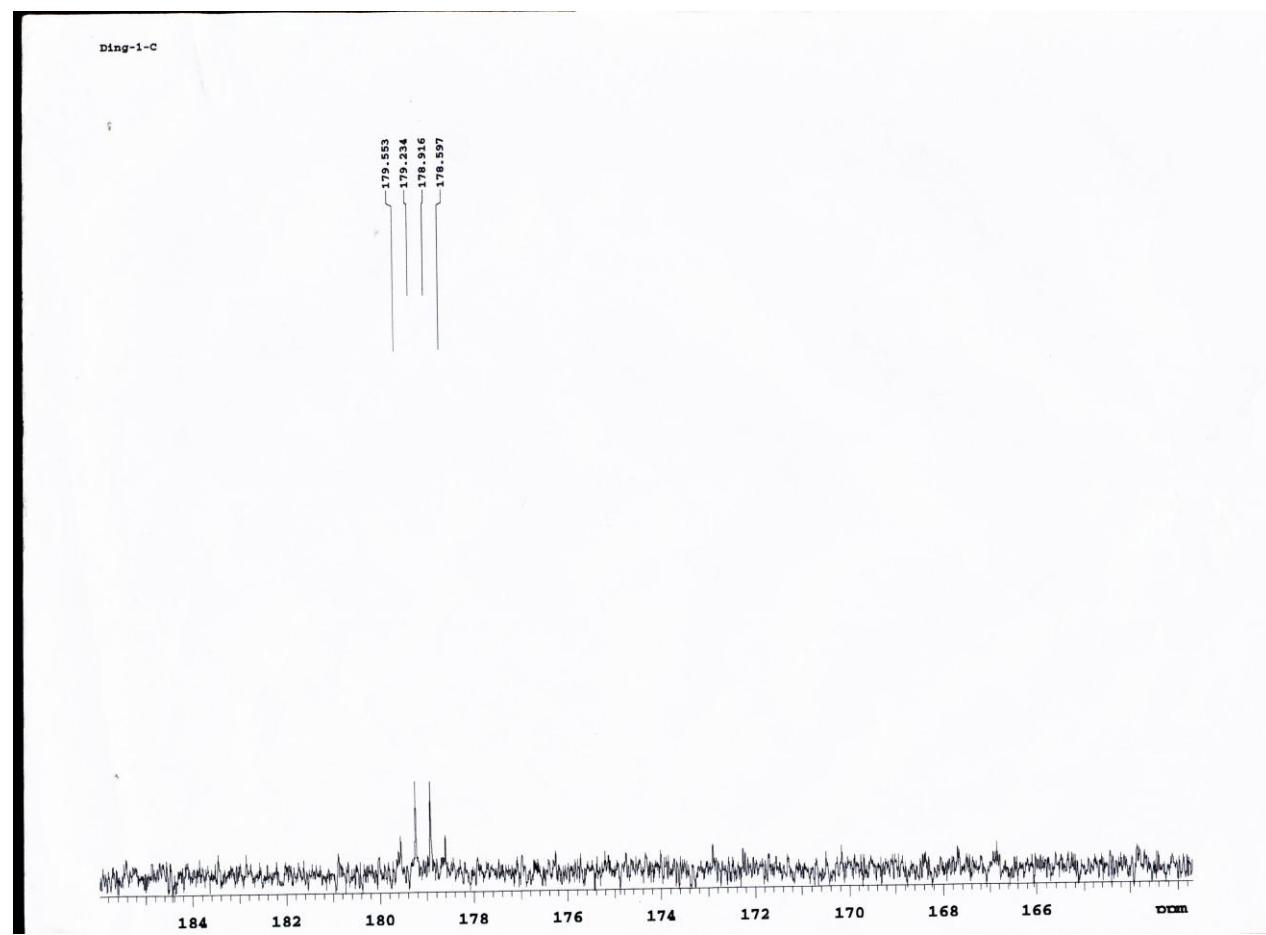


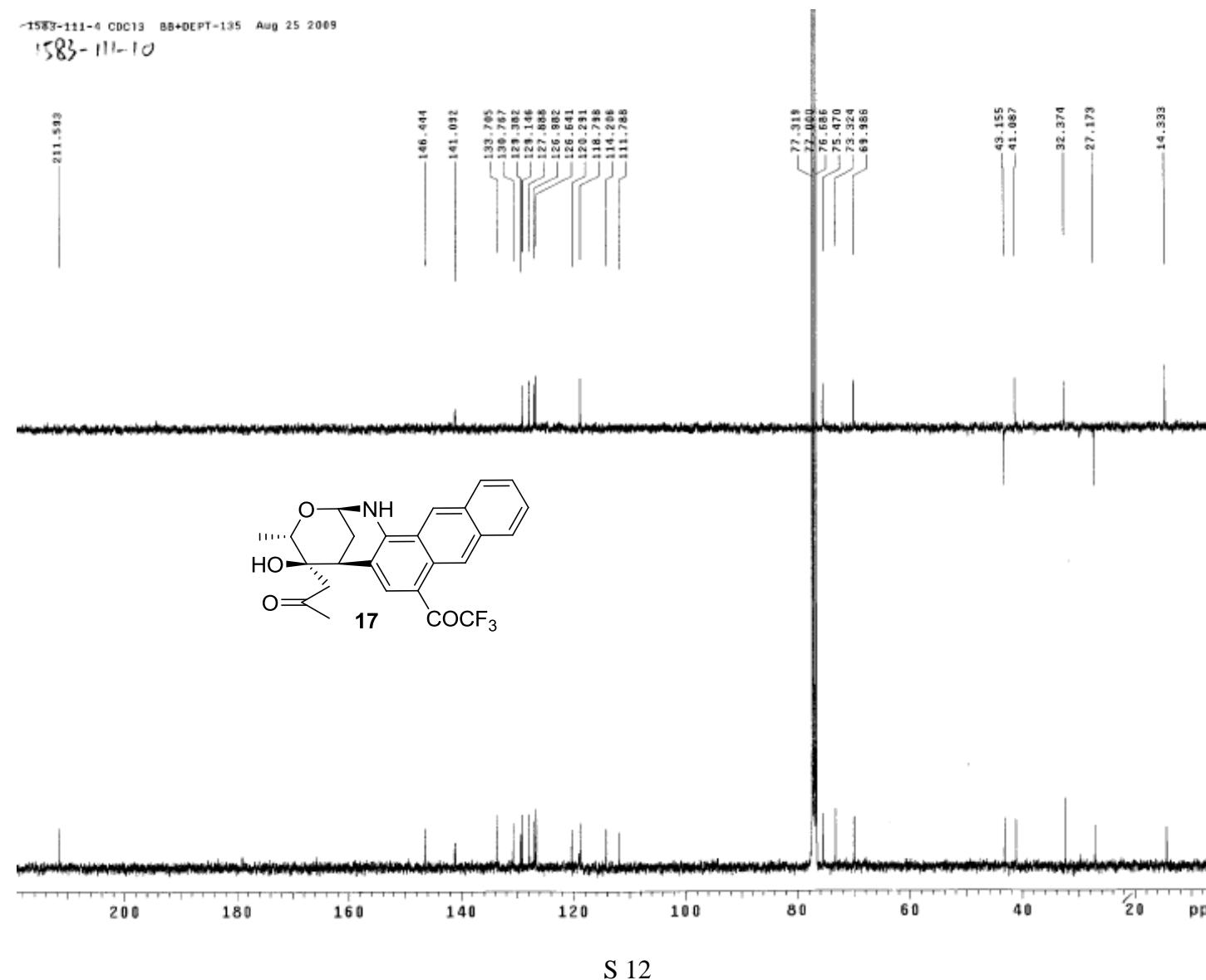






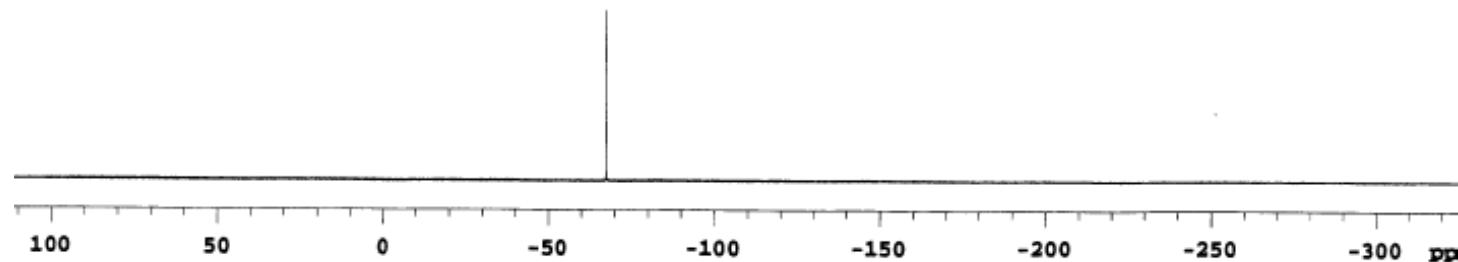
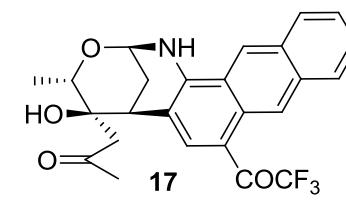






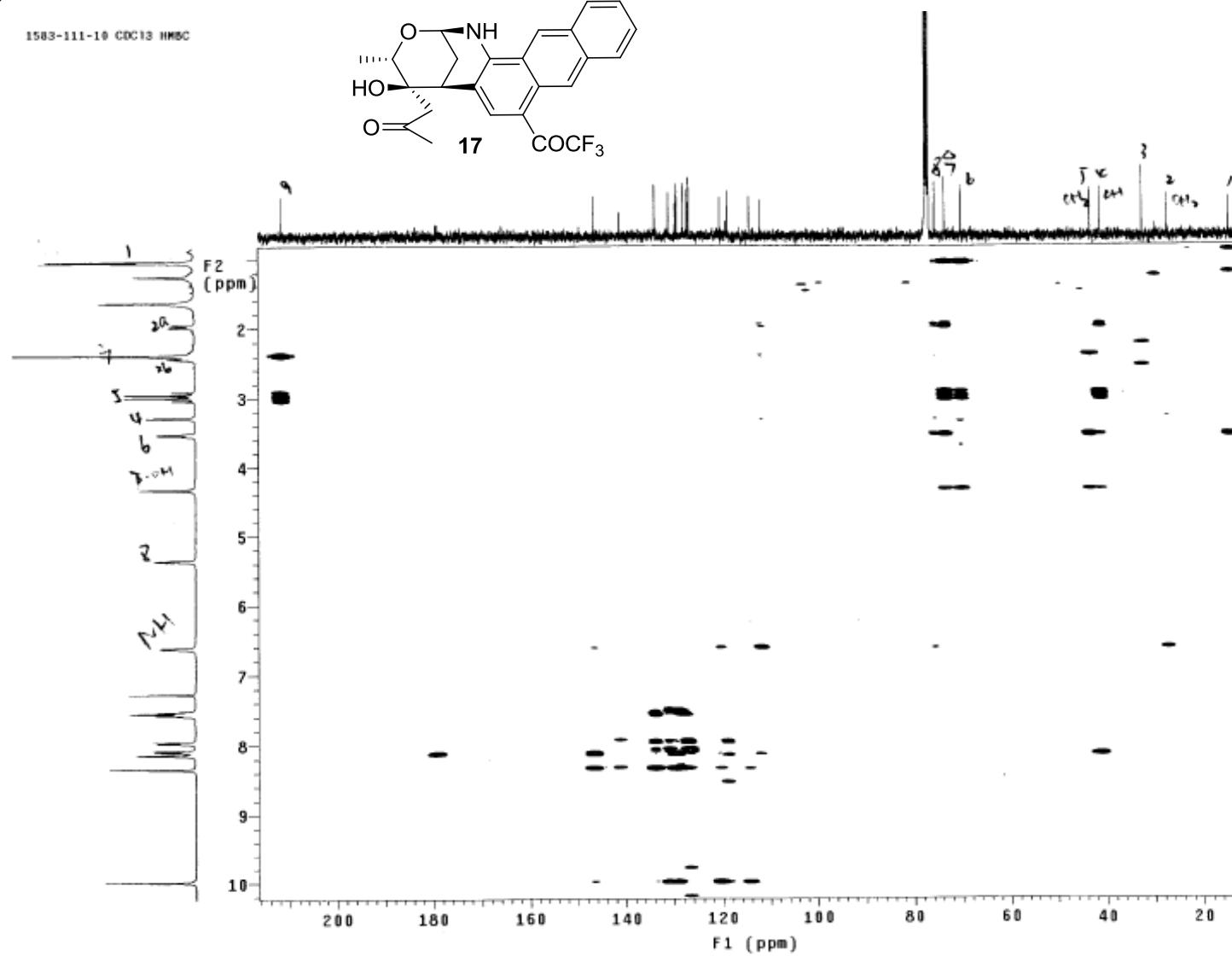
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Ding-1-F

-67.360

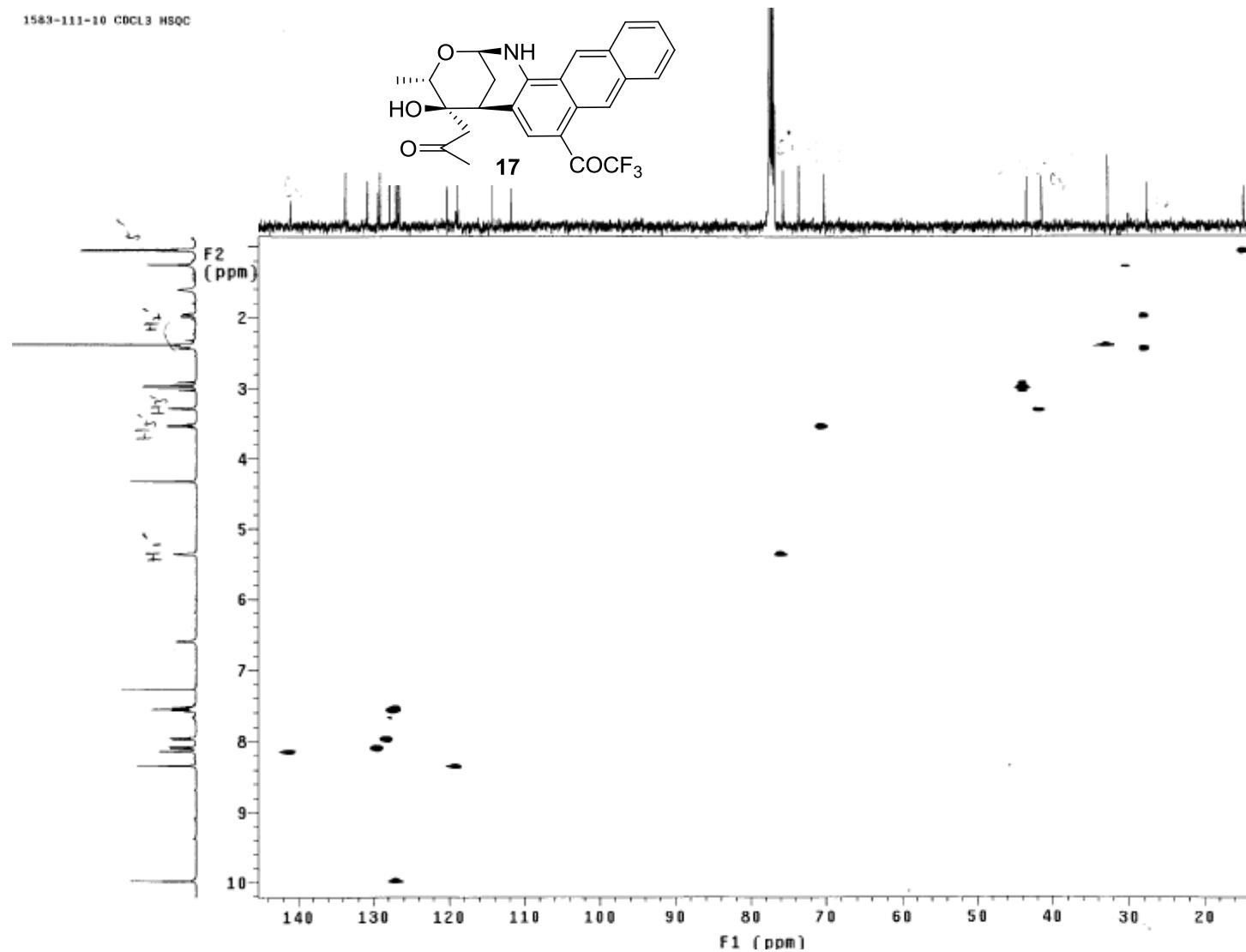


S 13

HMBC



HSQC

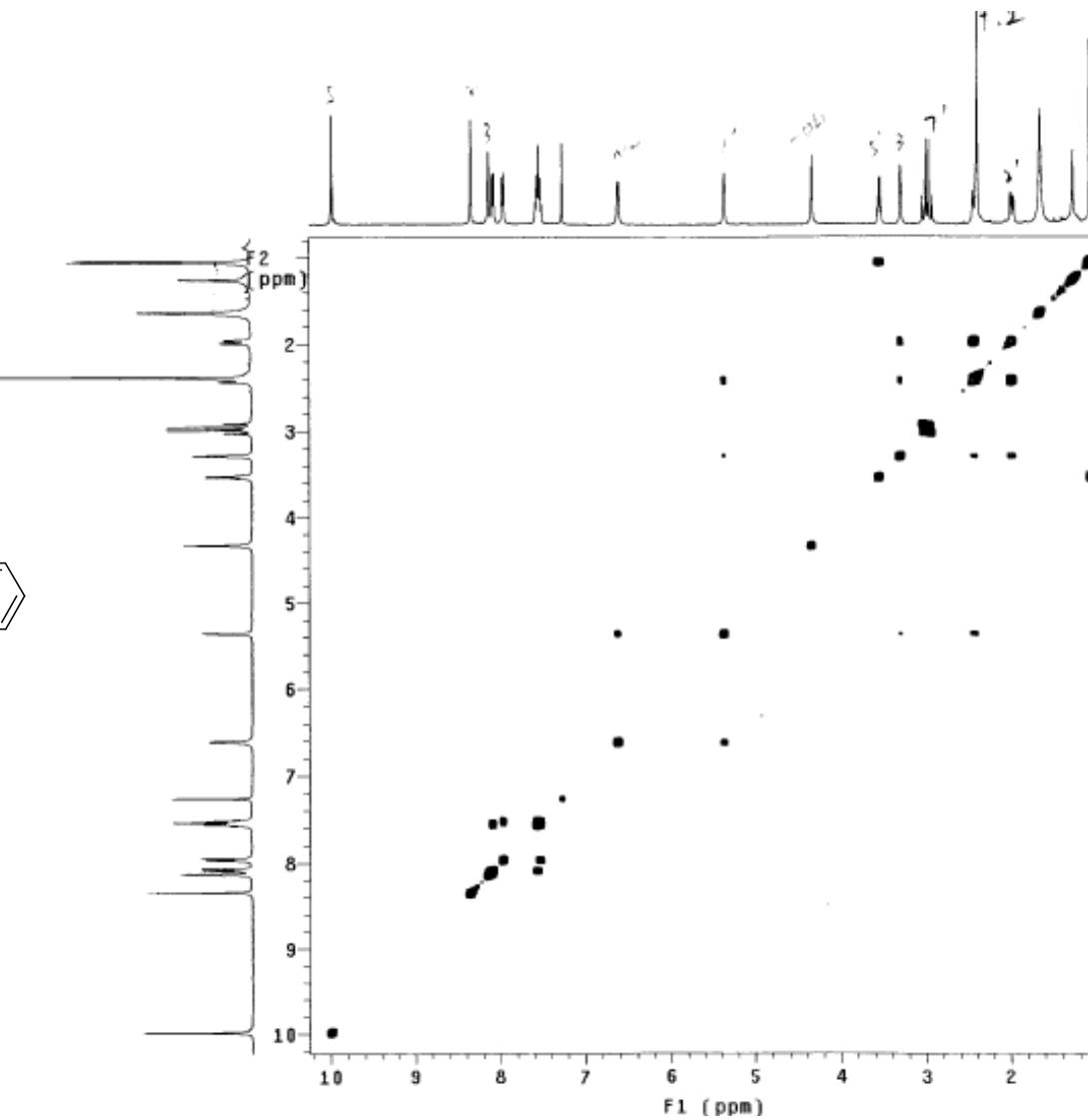
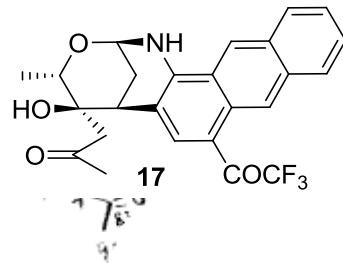


COSY

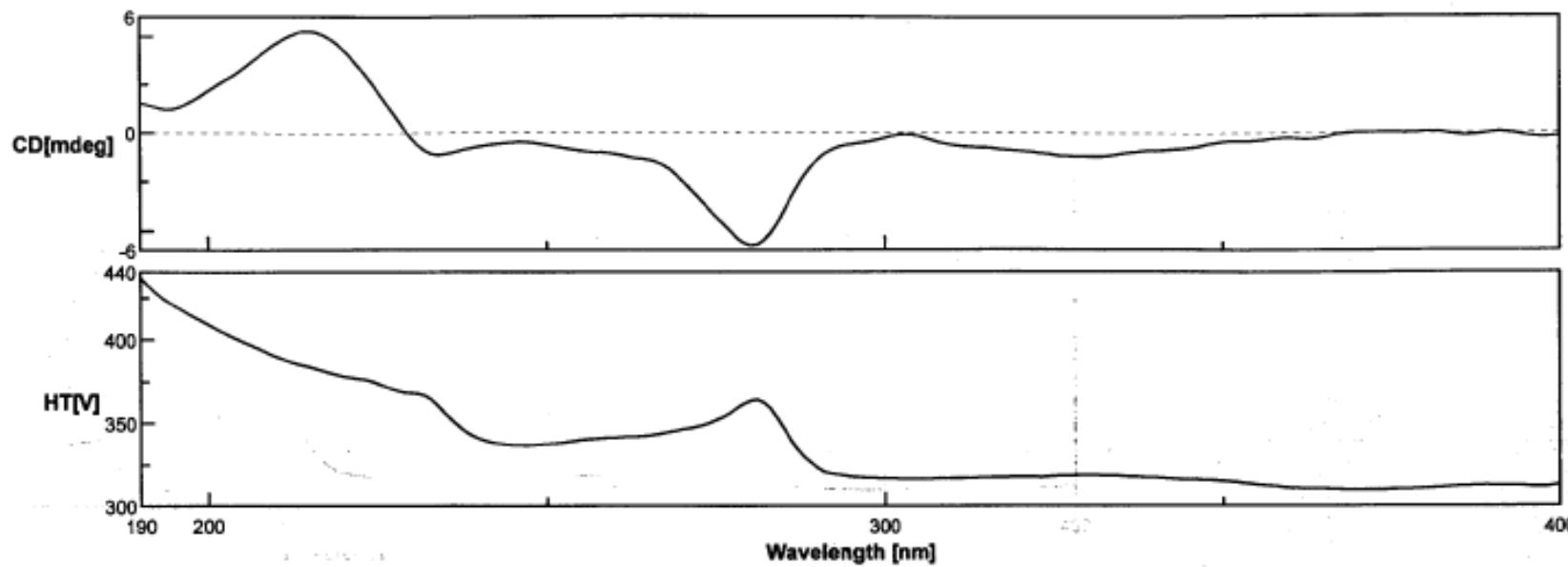
1583-111-10 CDCl_3 COSY

Solvent: CDCl_3
Ambient temperature
File: 1583-111-10.cosy
Mercury-400BB "stmm401"

Relax. delay 1.000 sec
COSY 90-90
Acq. time 0.171 sec
Width 6003.6 Hz
2D Width 6003.6 Hz
4 repetitions
320 increments
OBSERVE H1, 400.1645834 MHz
DATA PROCESSING
Sq. sine bell 0.085 sec
F1 DATA PROCESSING
Sq. sine bell 0.027 sec
FT size 2048 x 2048
Total time 28 min, 21 sec



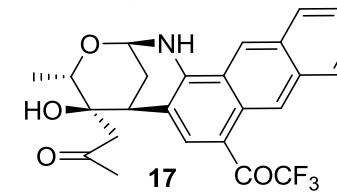
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Solvent MeOH
Temperature Room Temperature

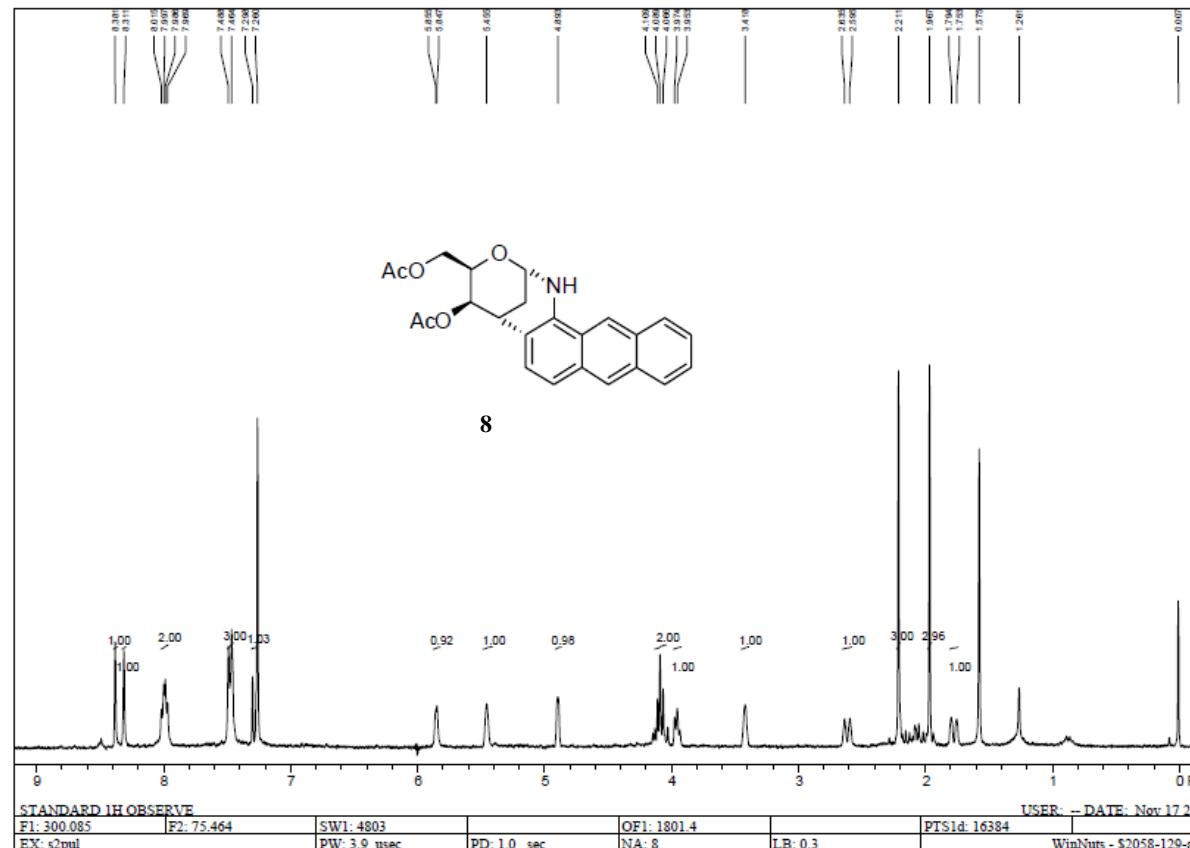
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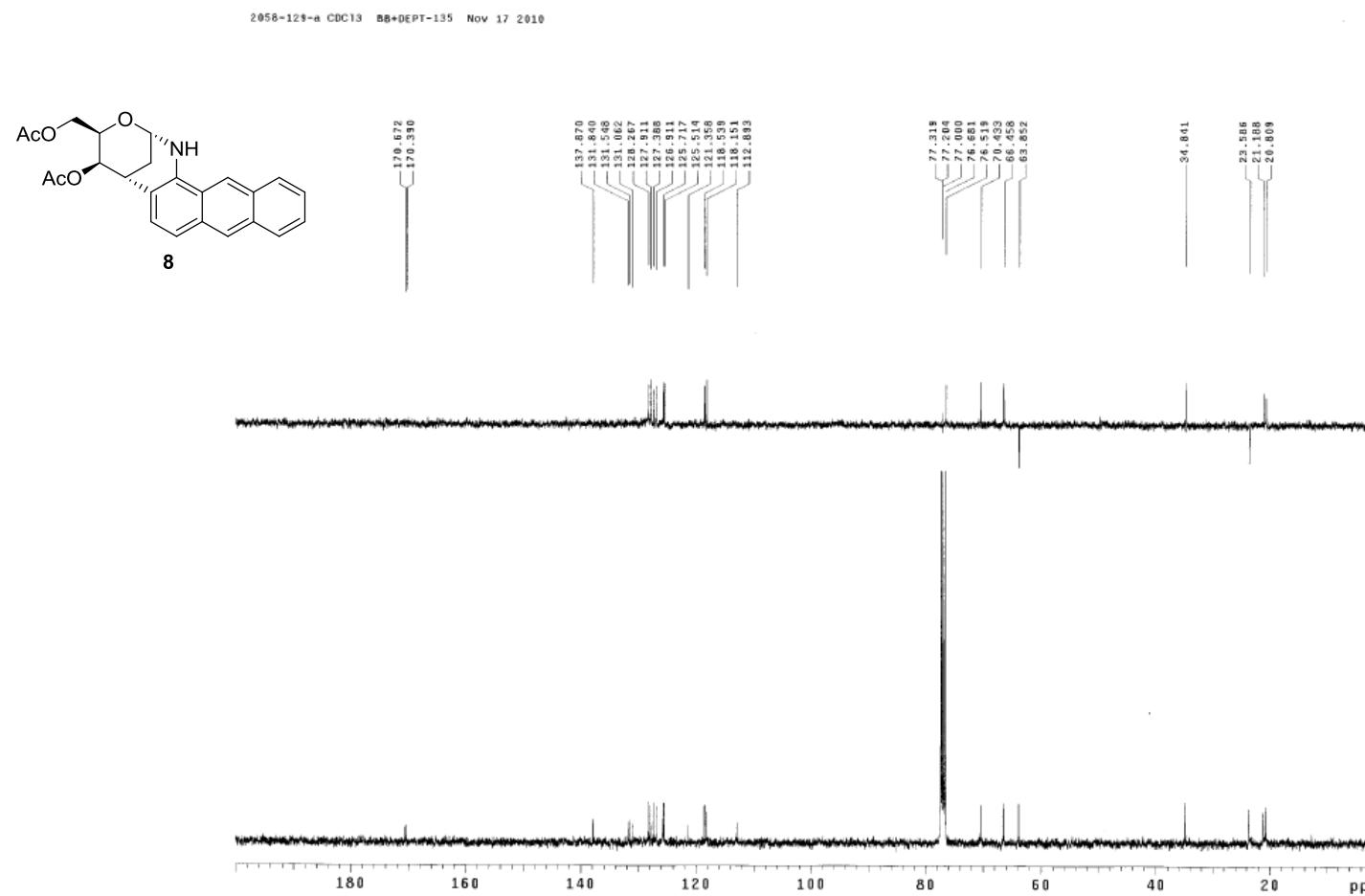


Compound 8

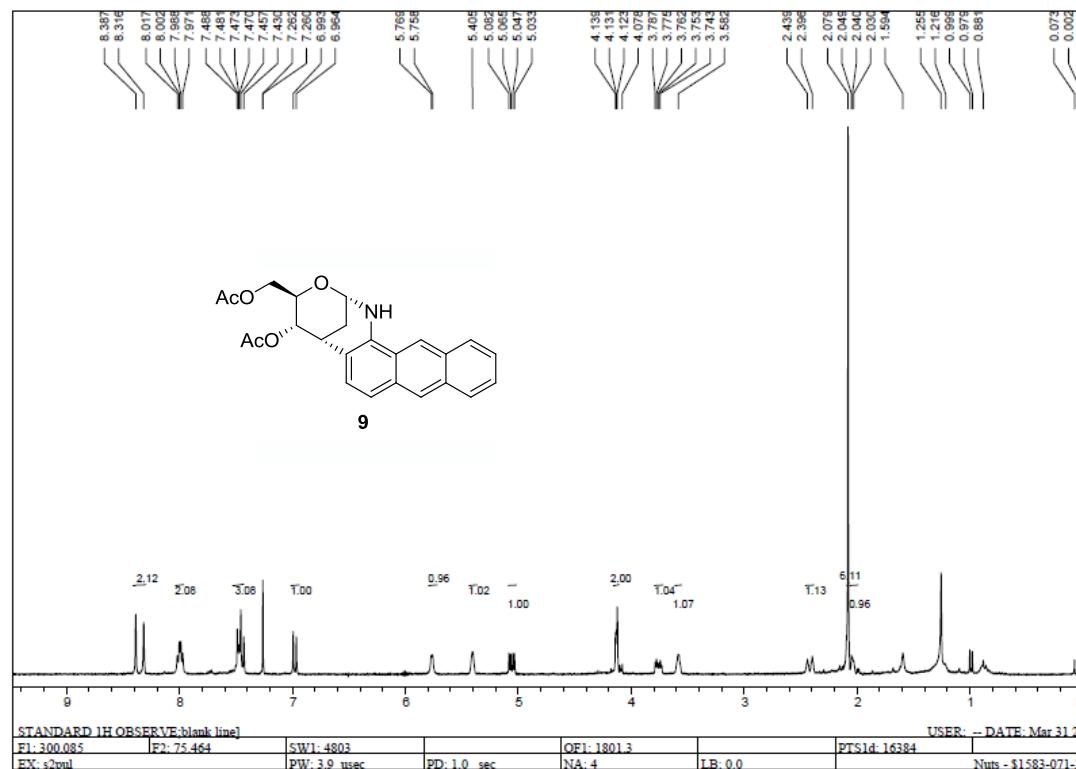
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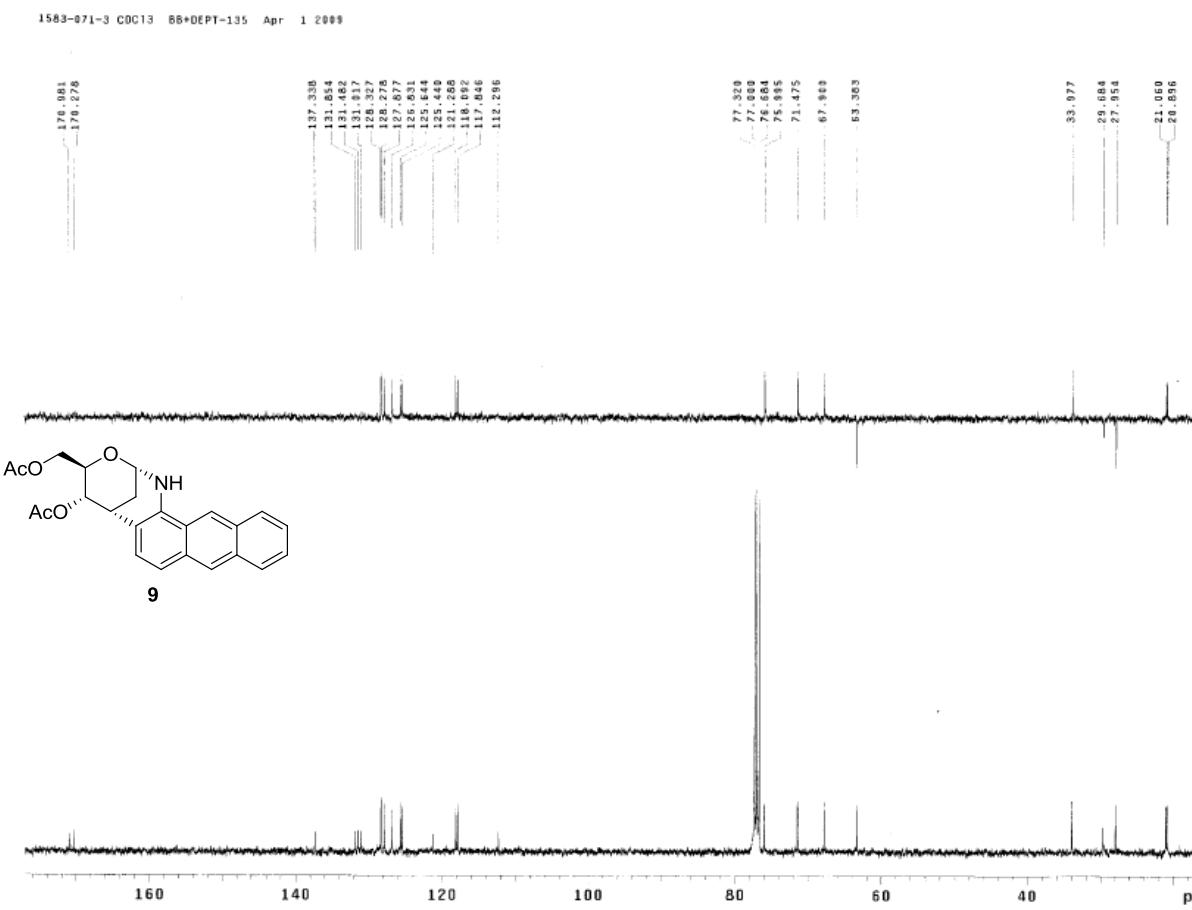
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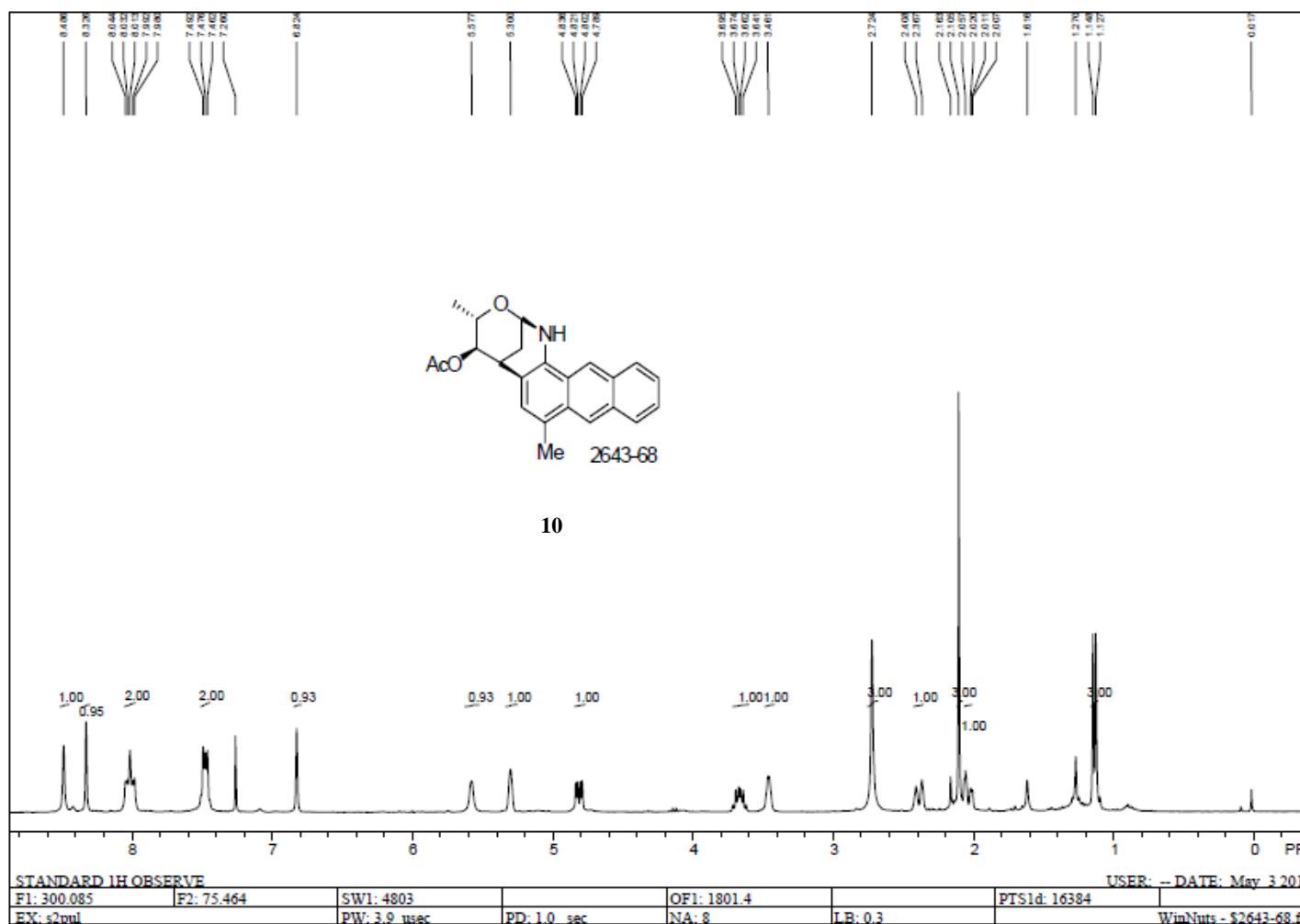


¹H-NMR

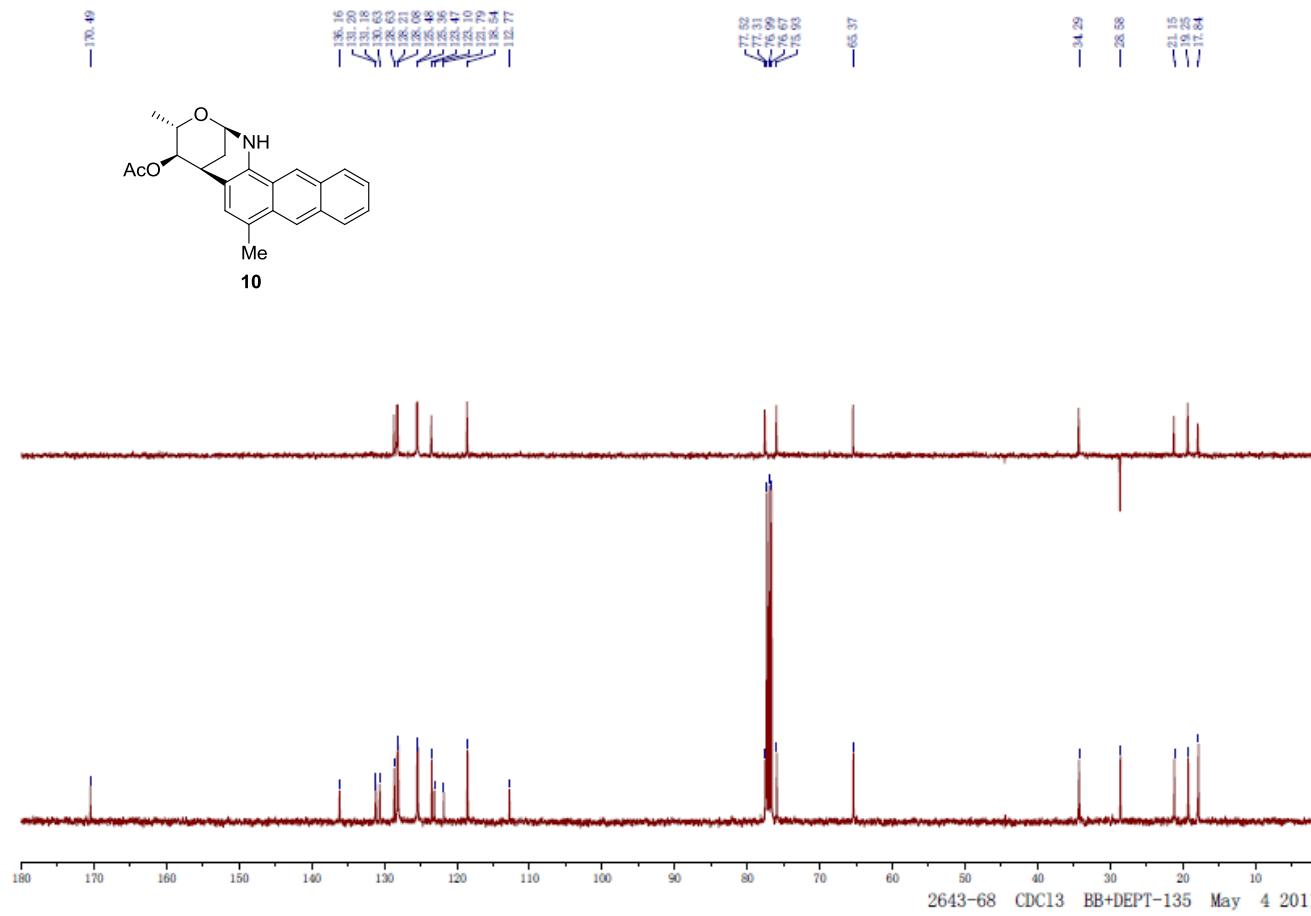


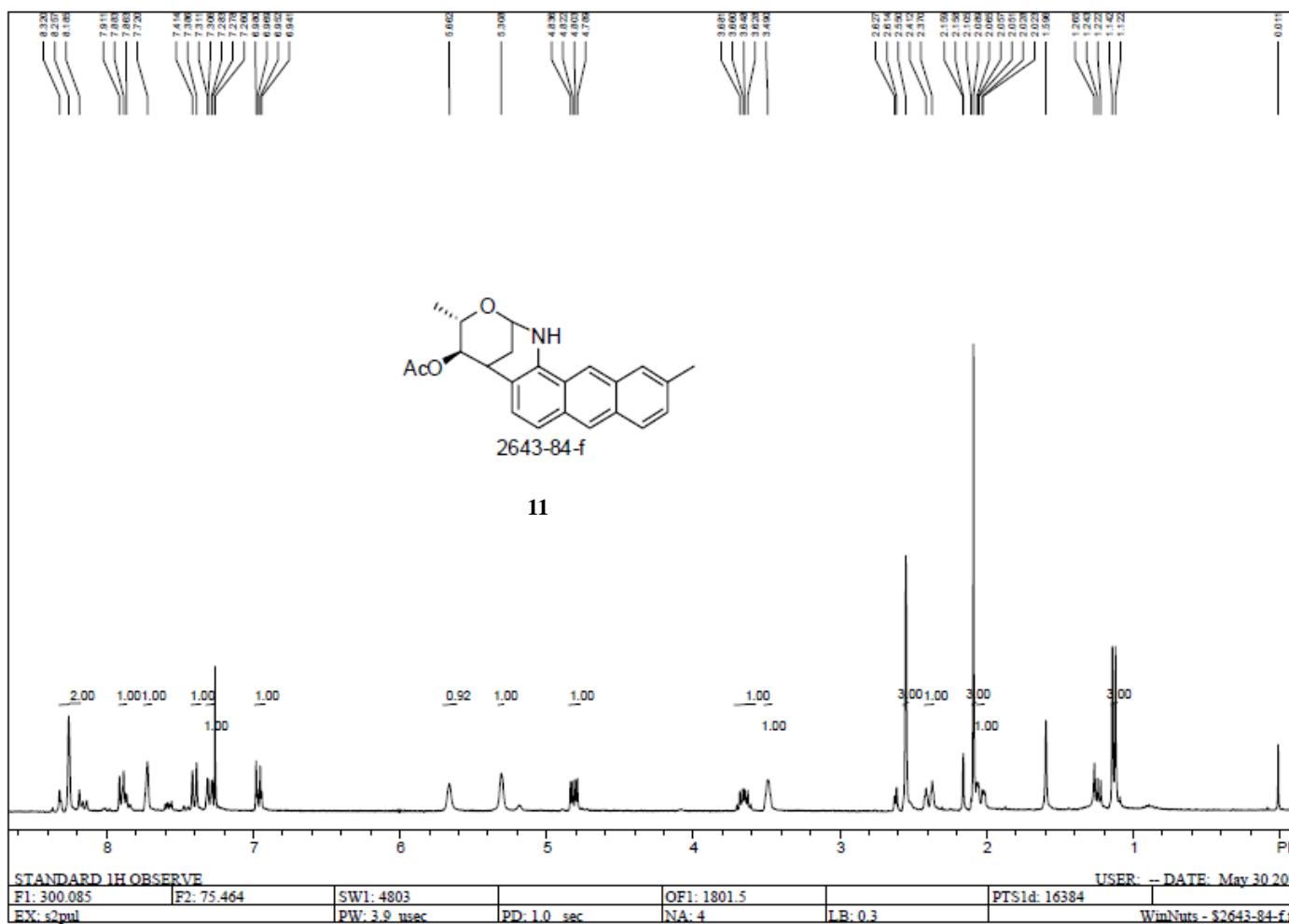
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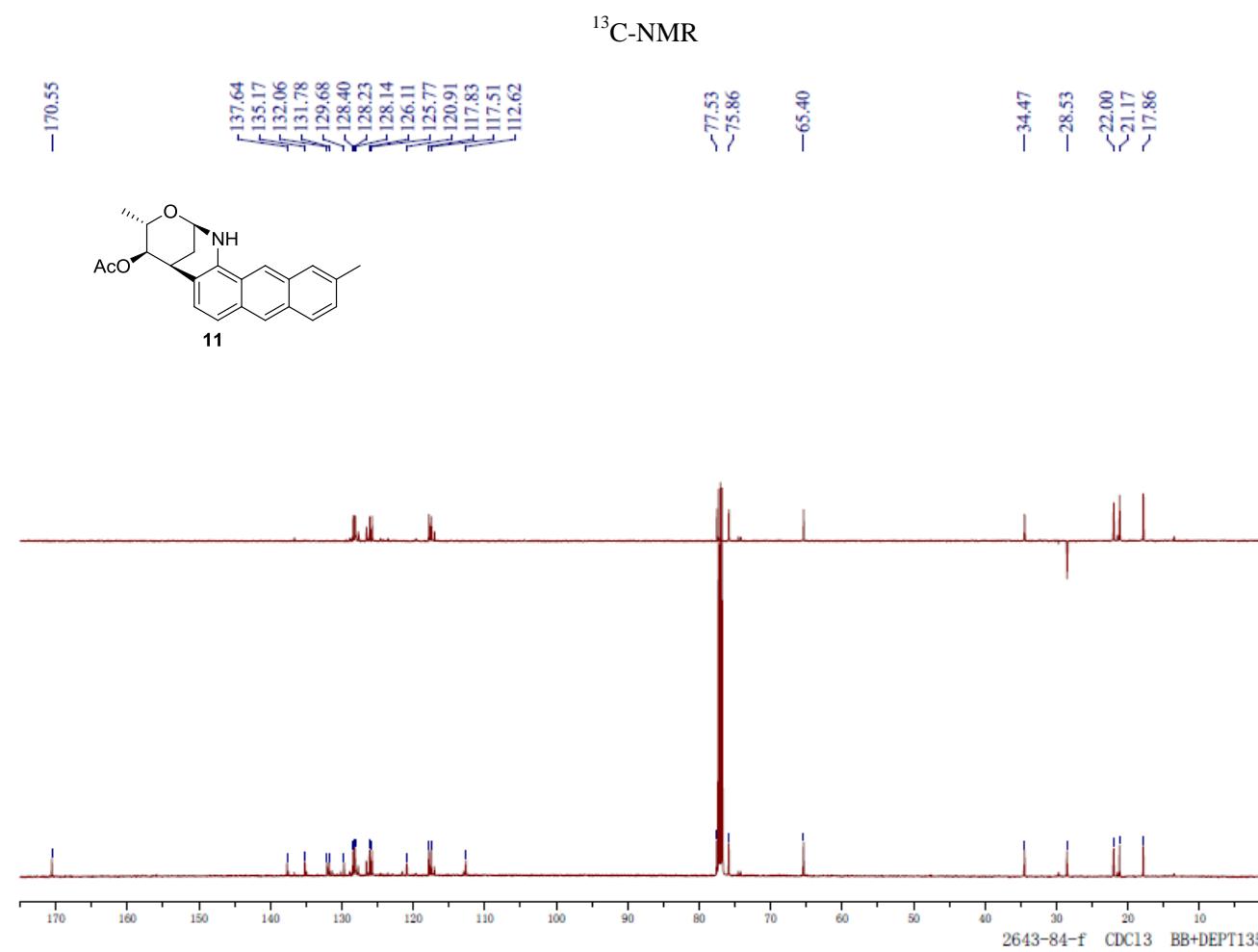




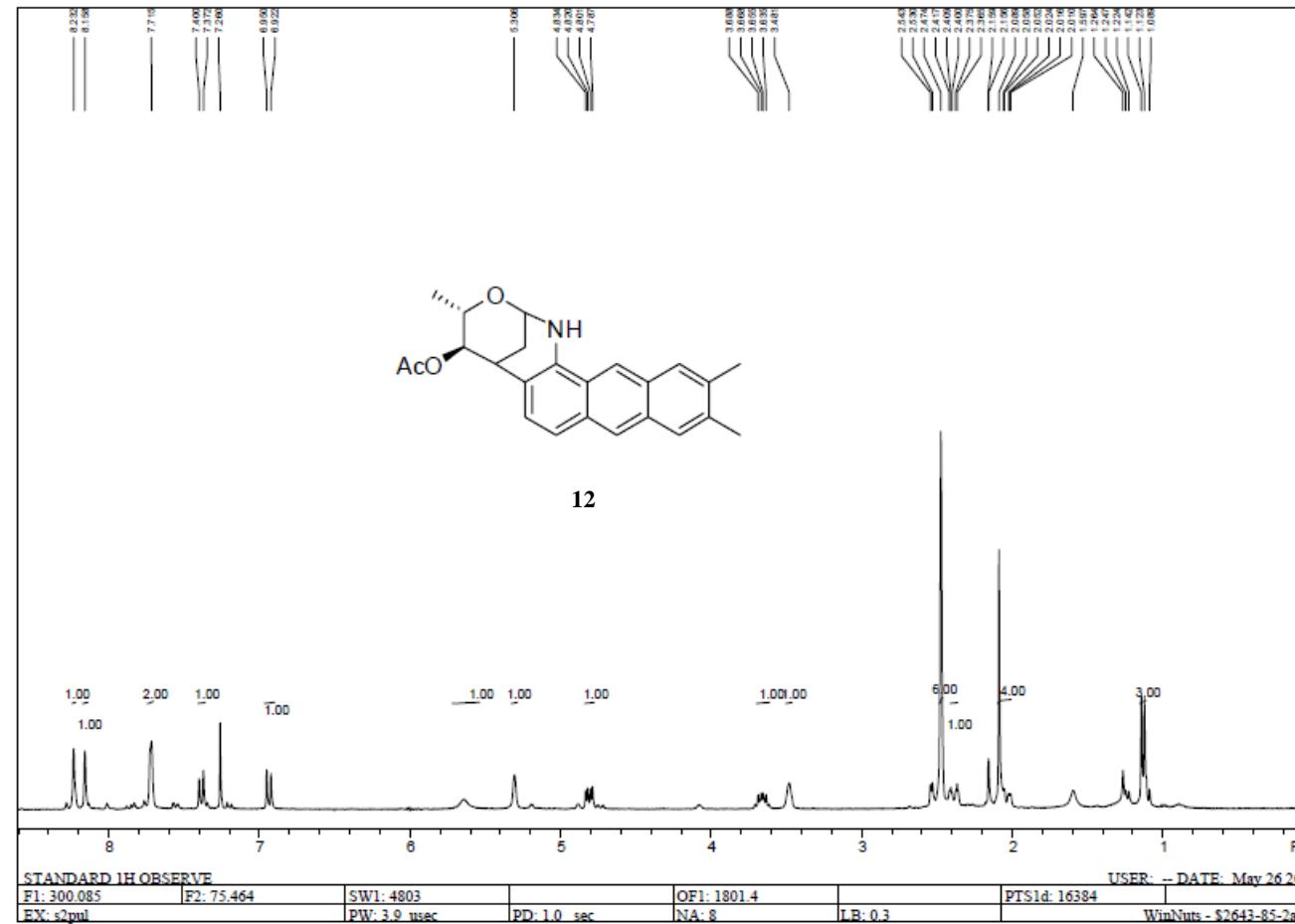
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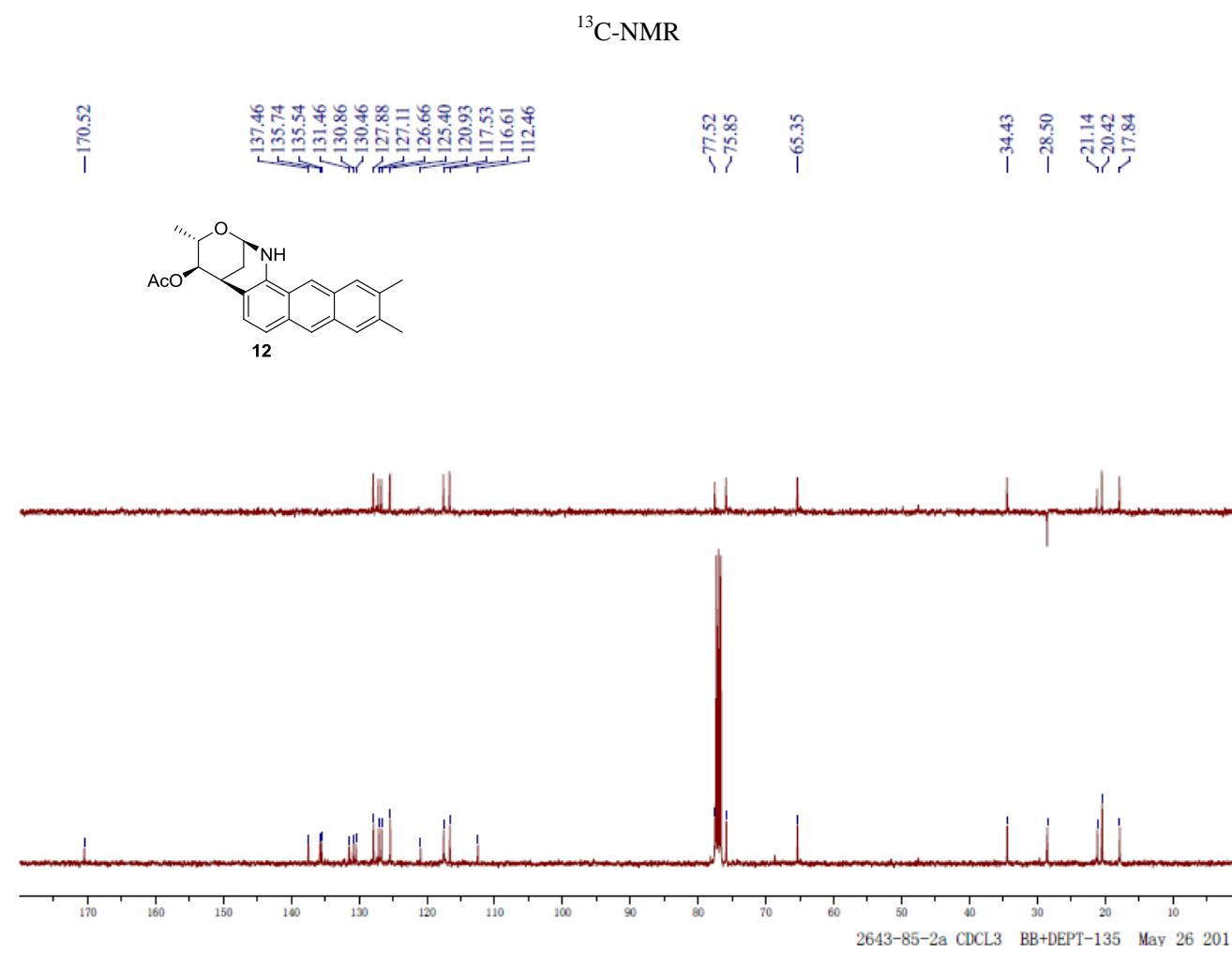


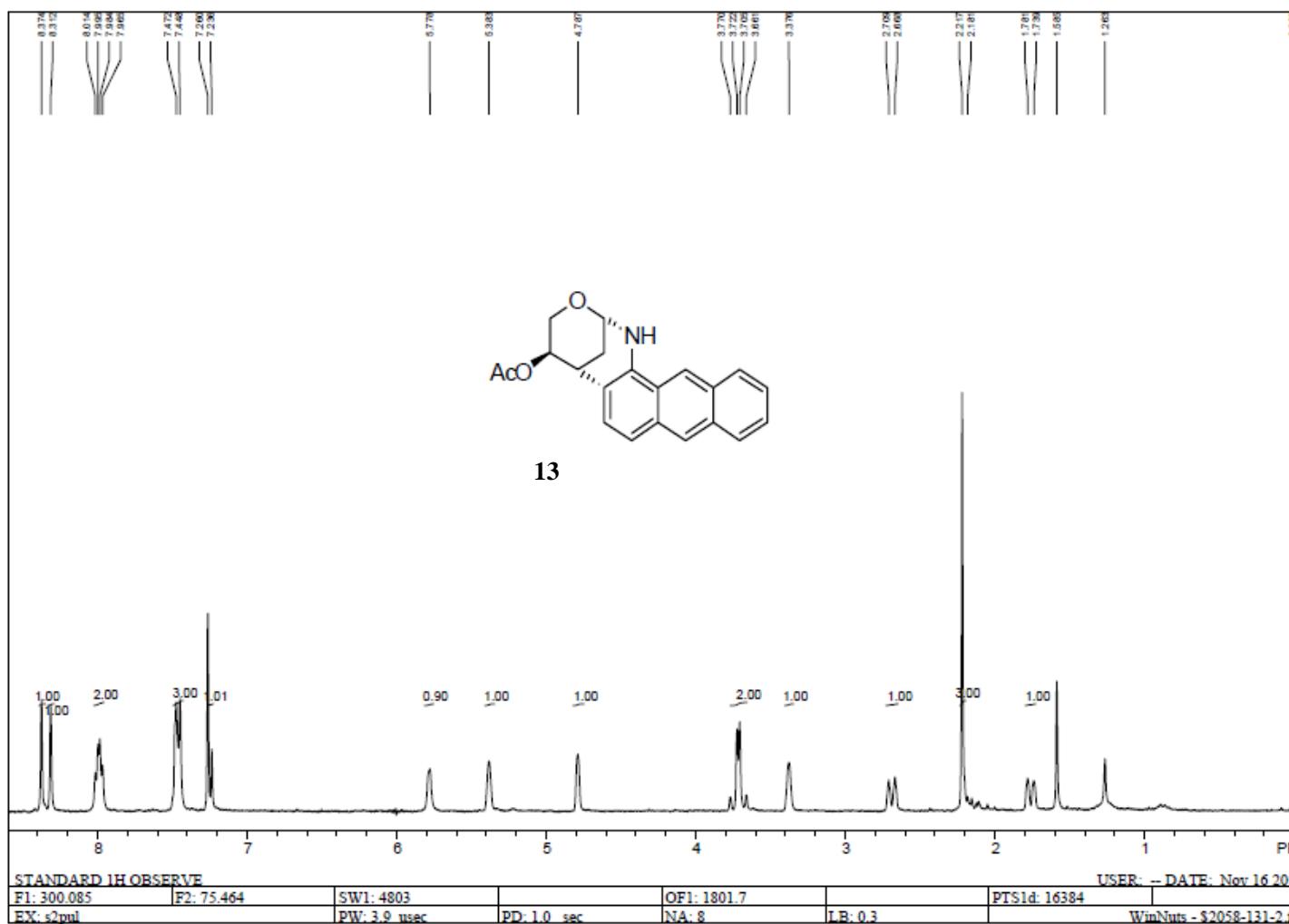


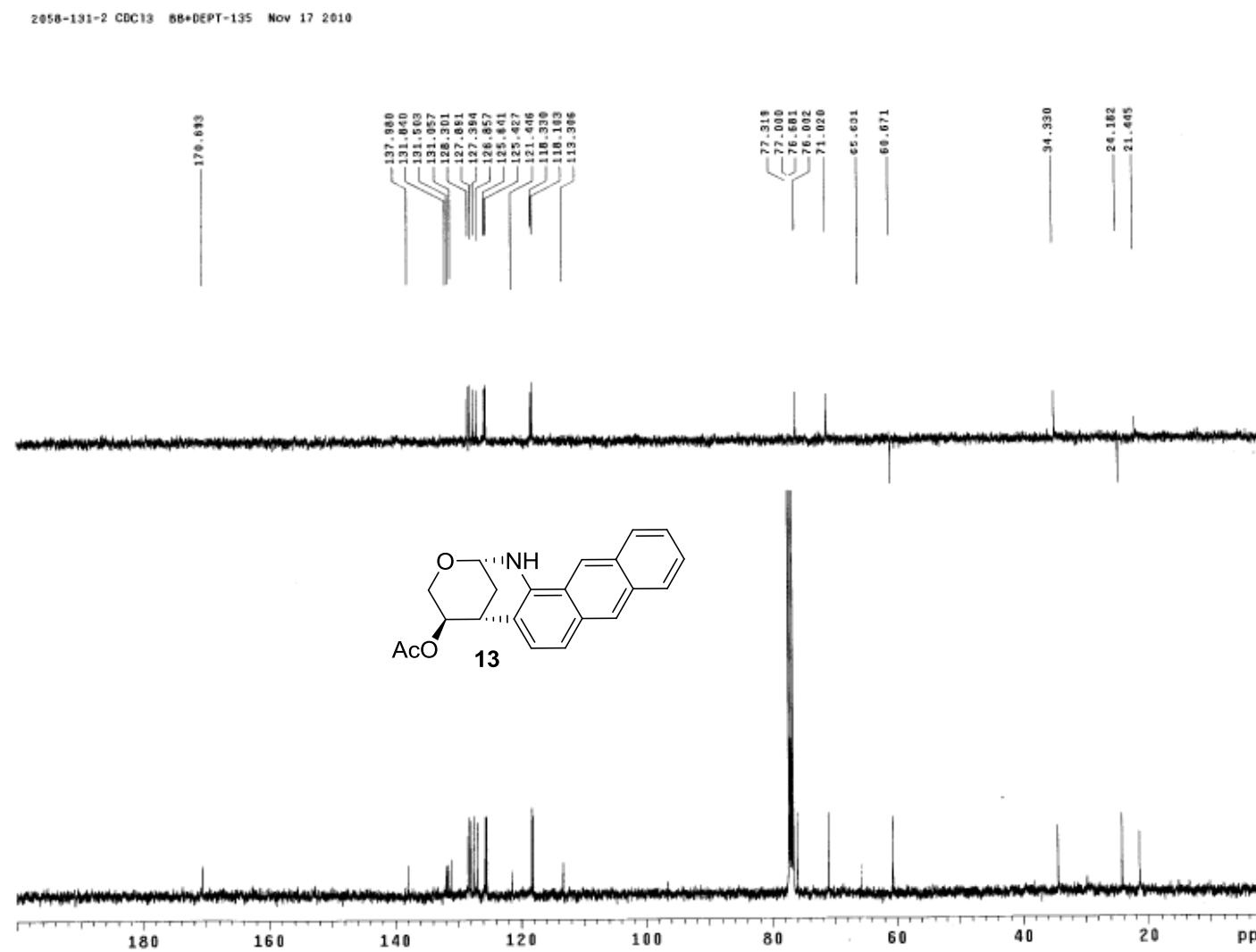


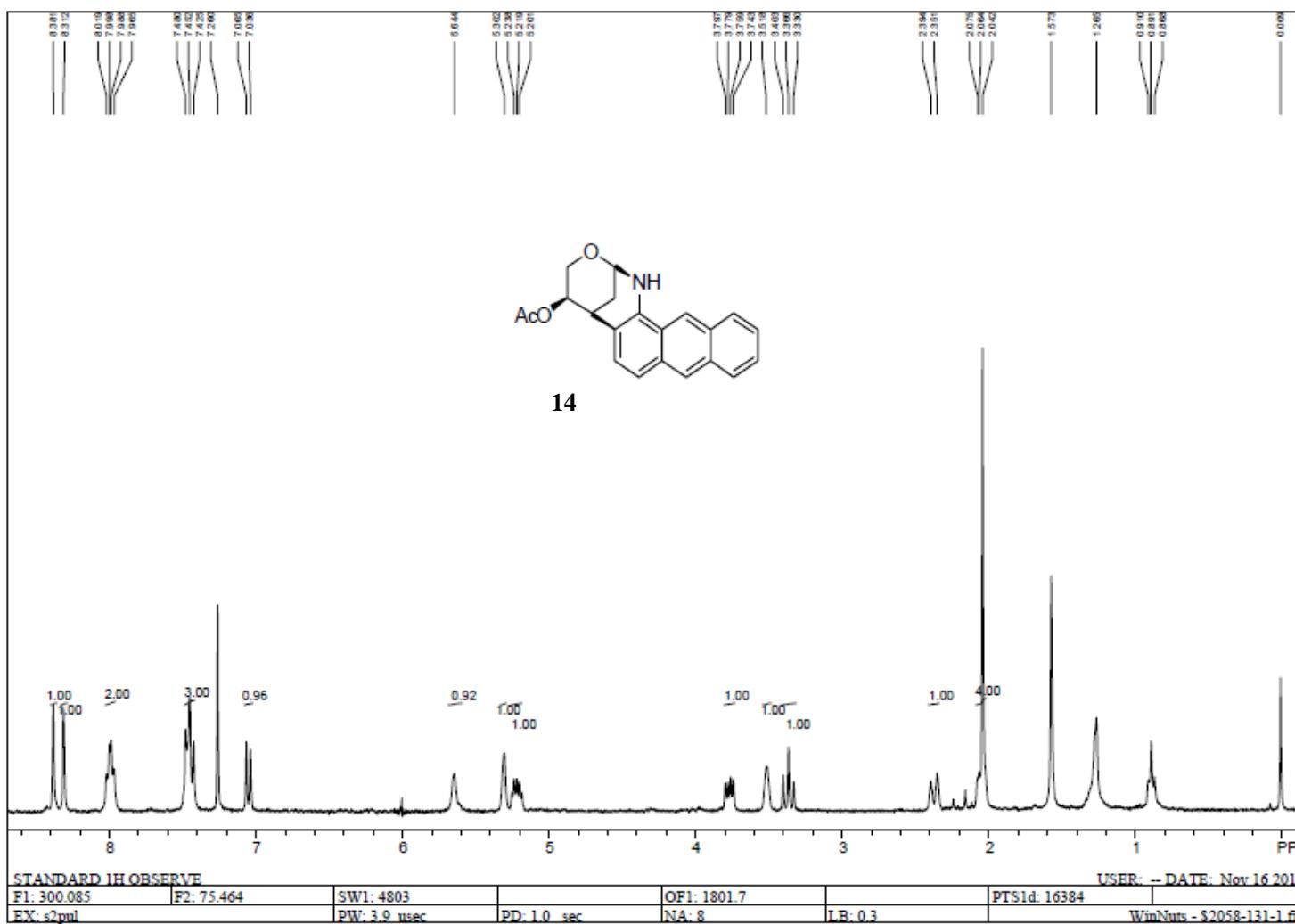
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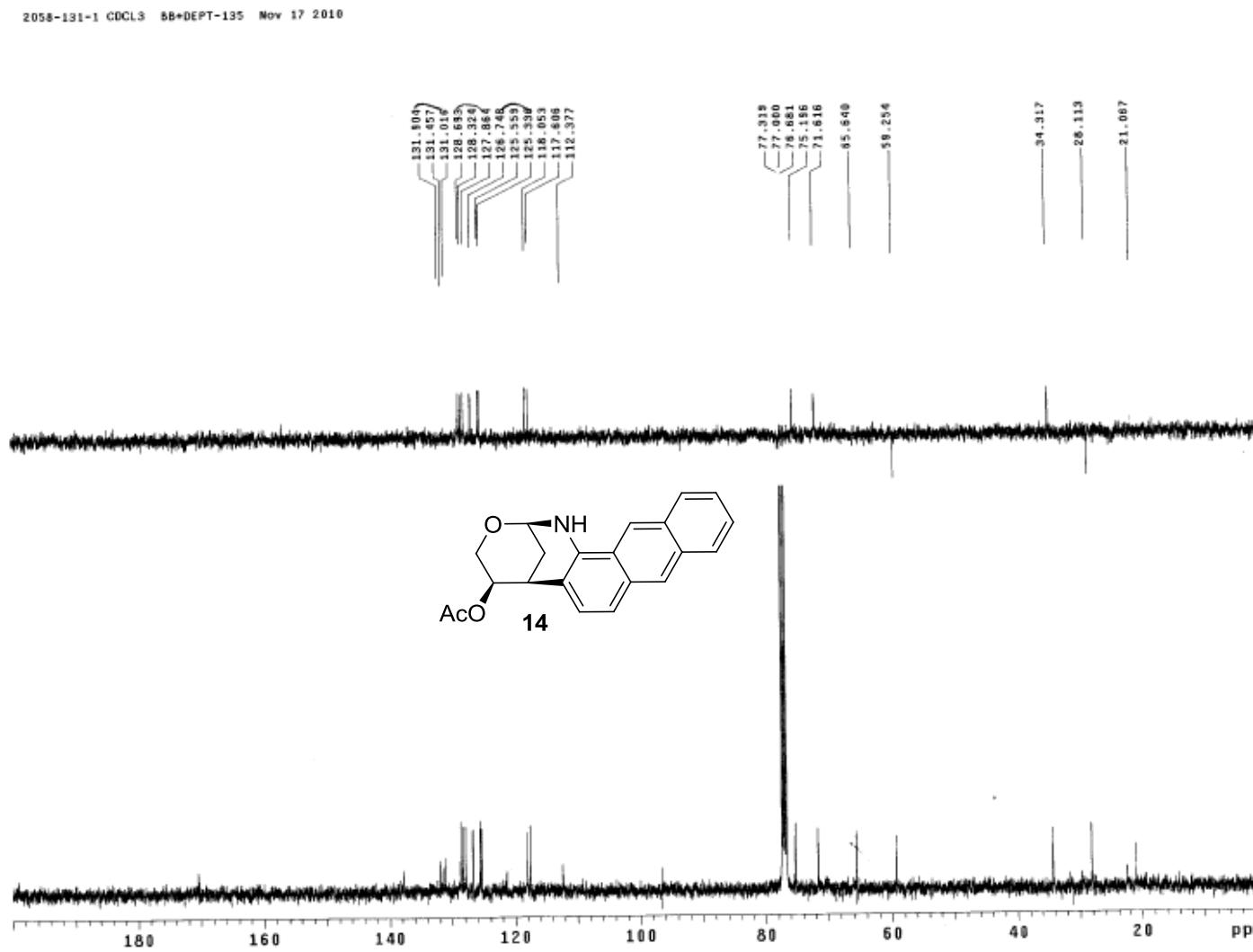


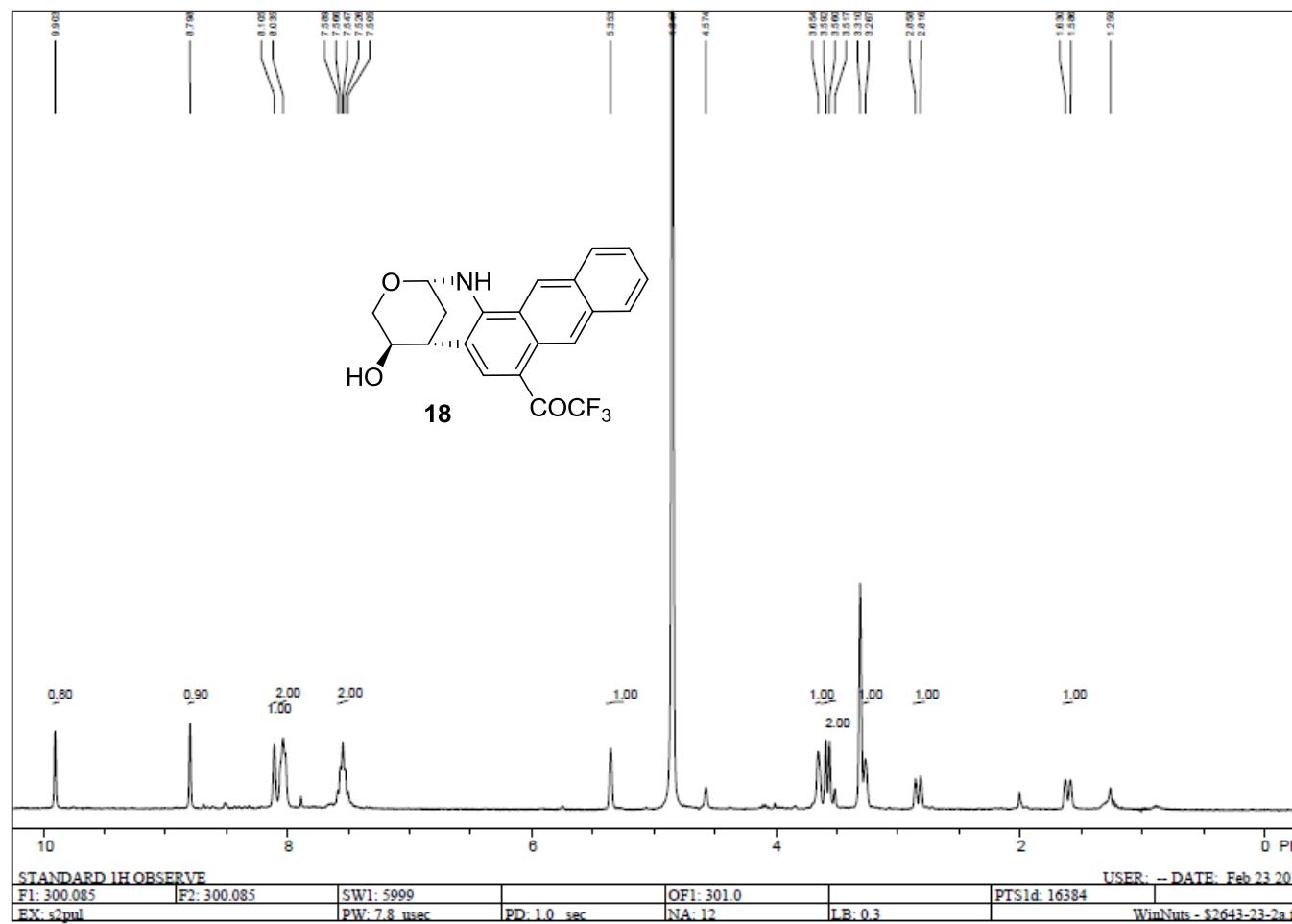


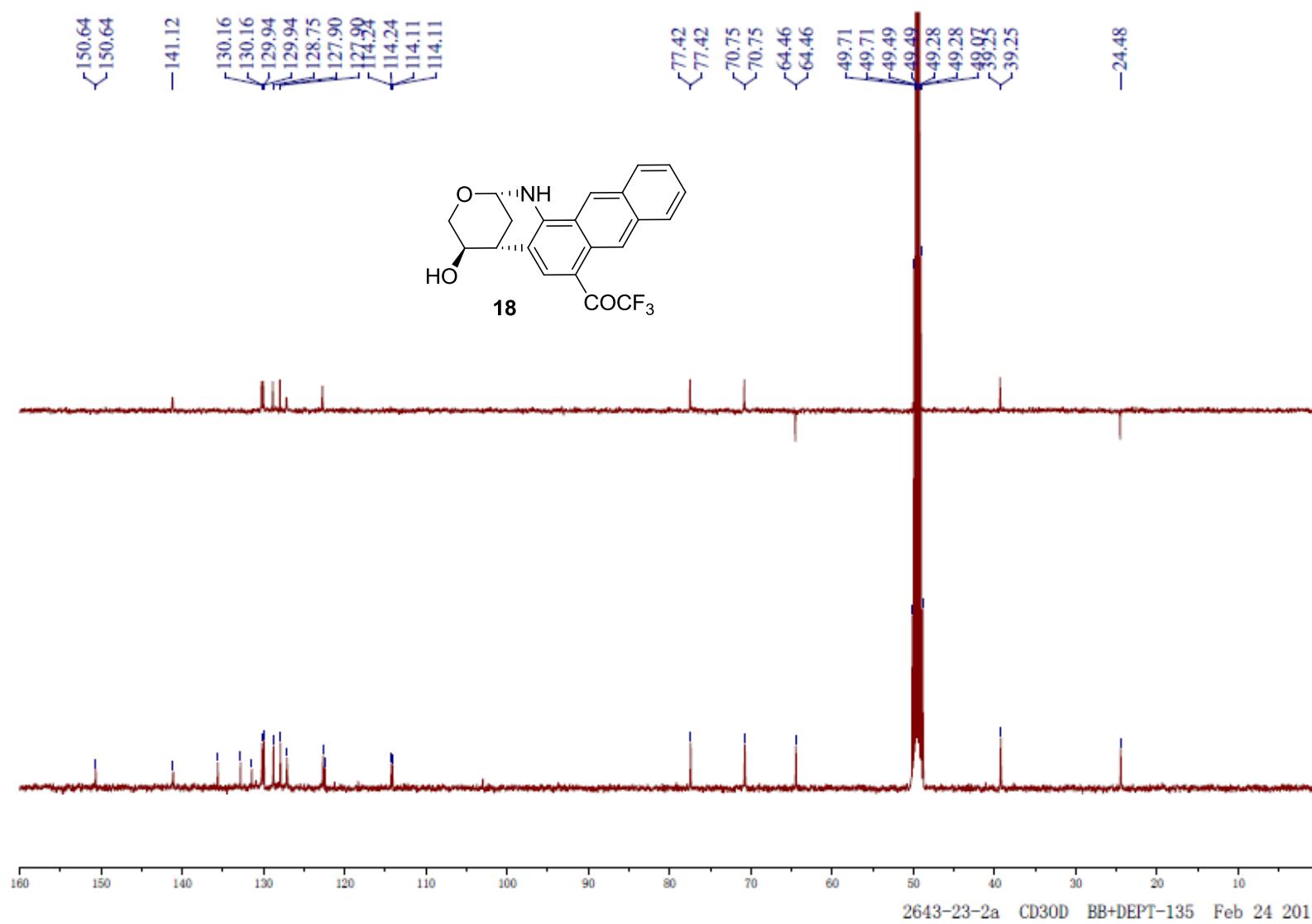


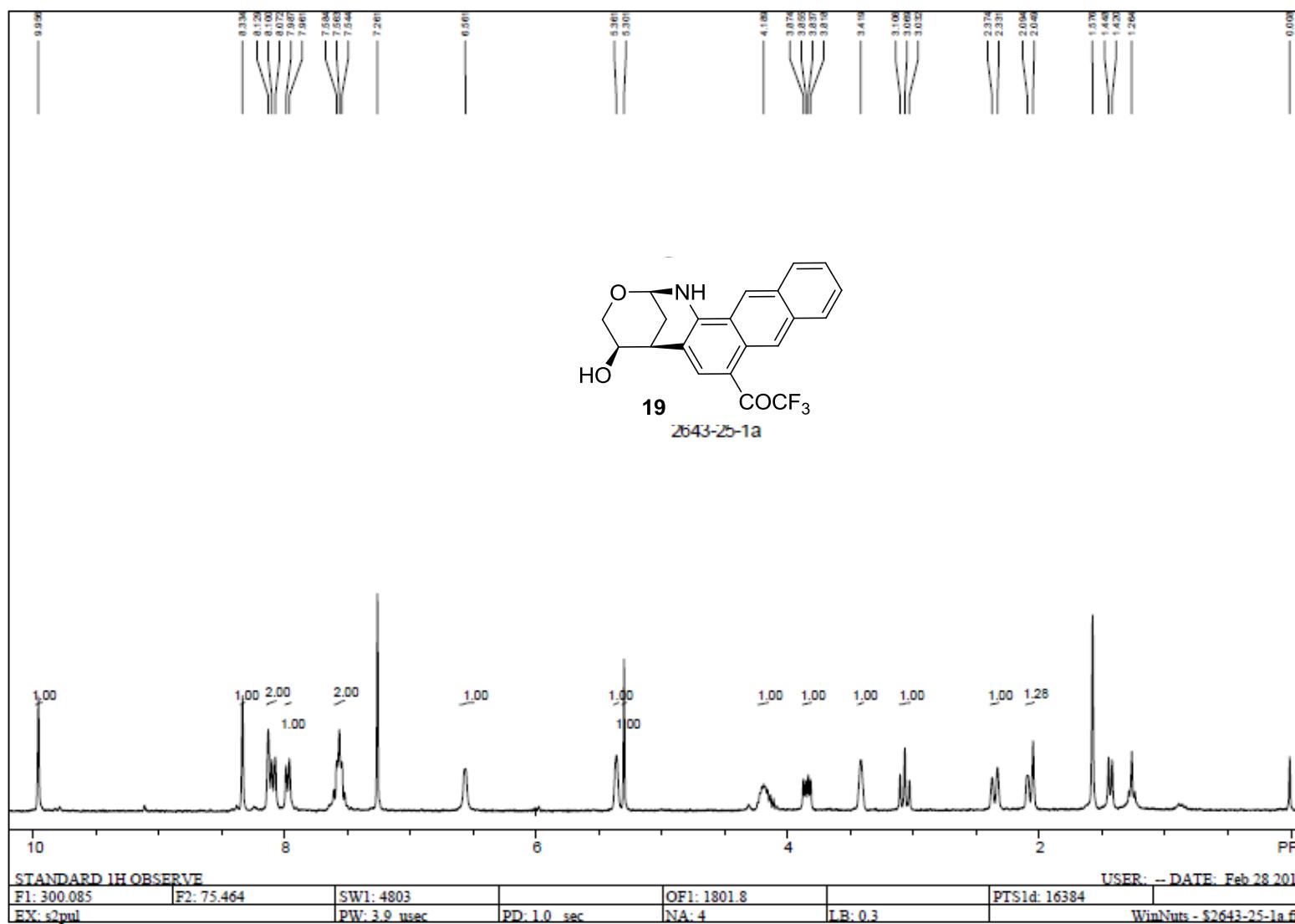


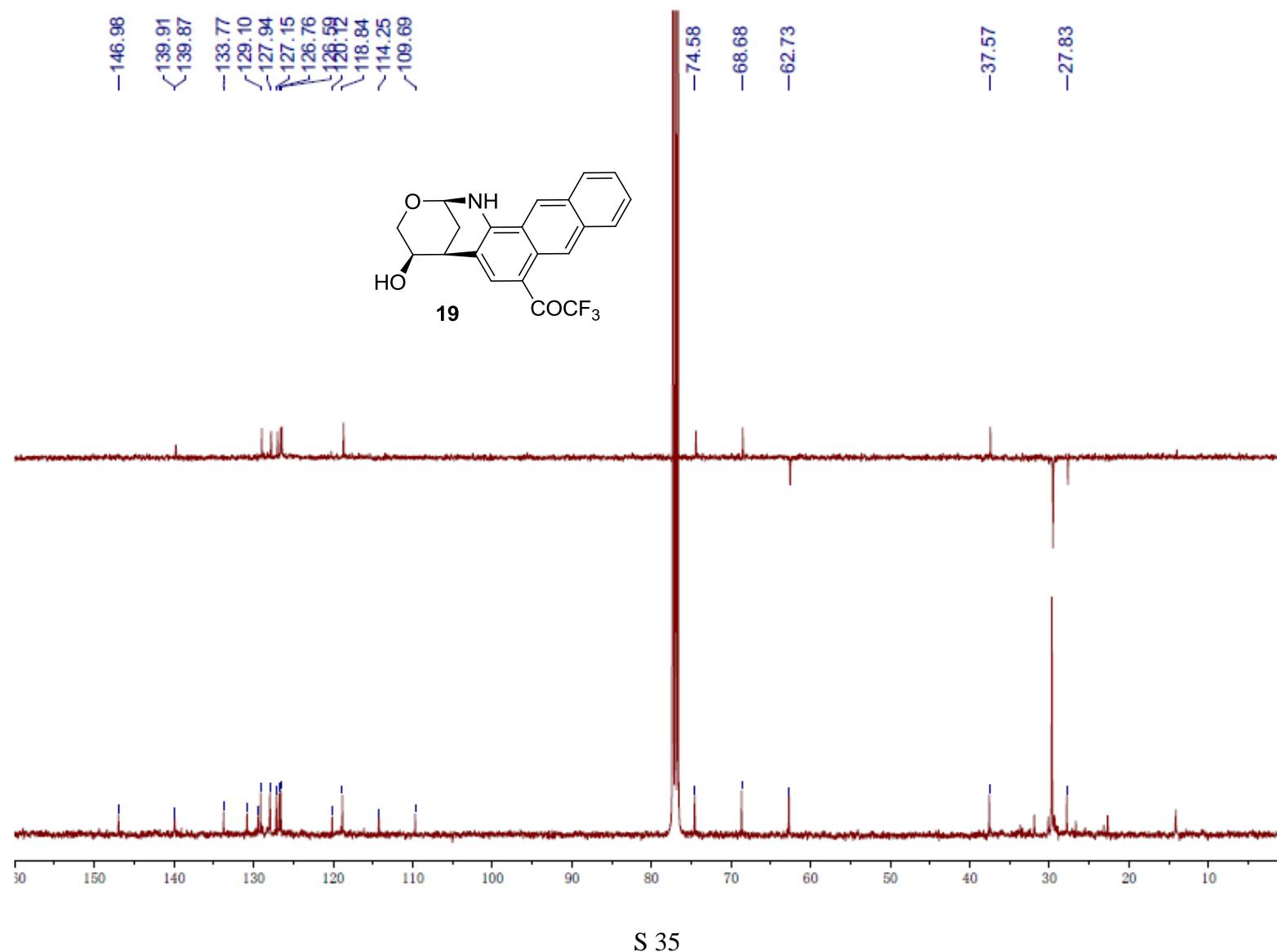


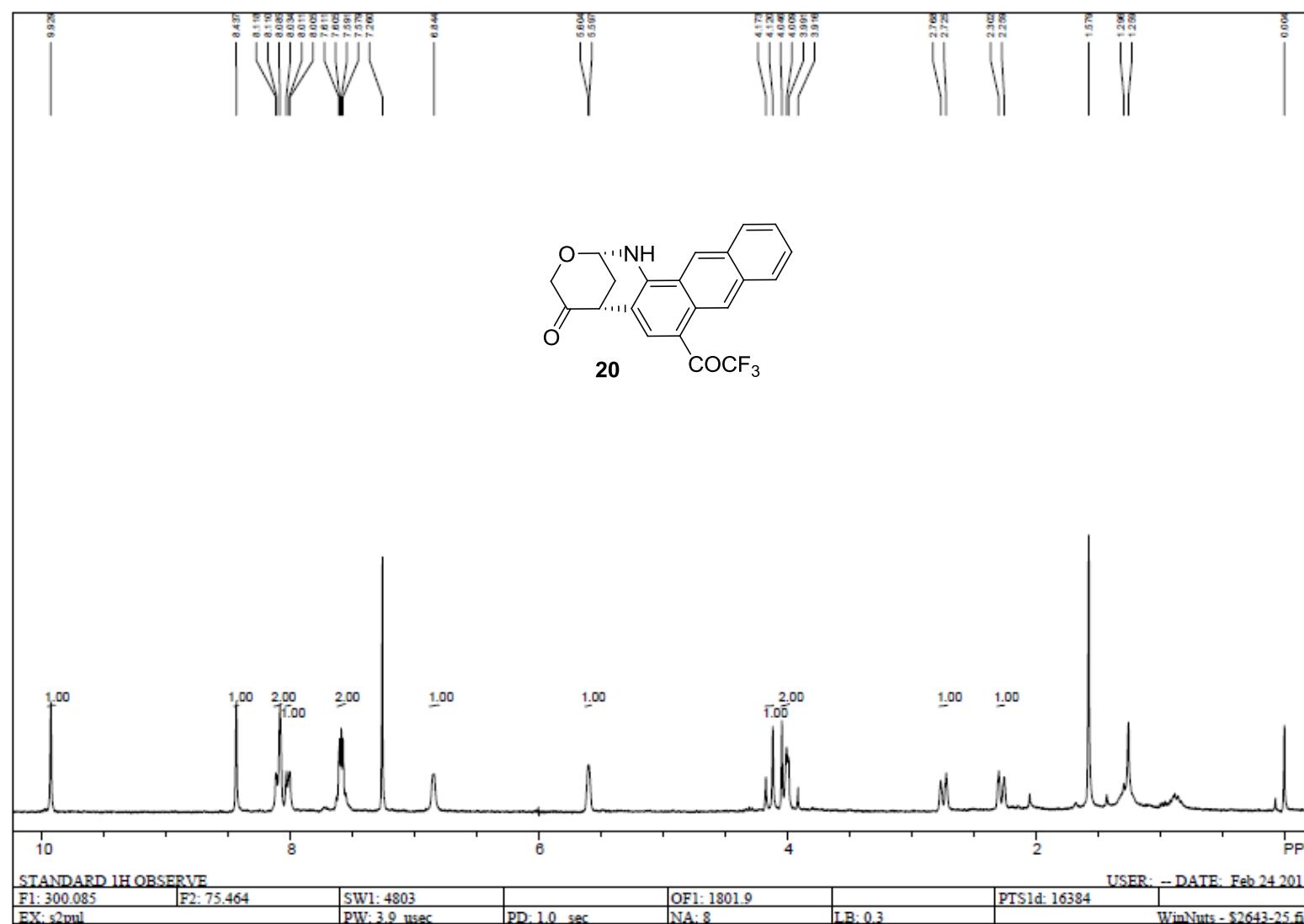


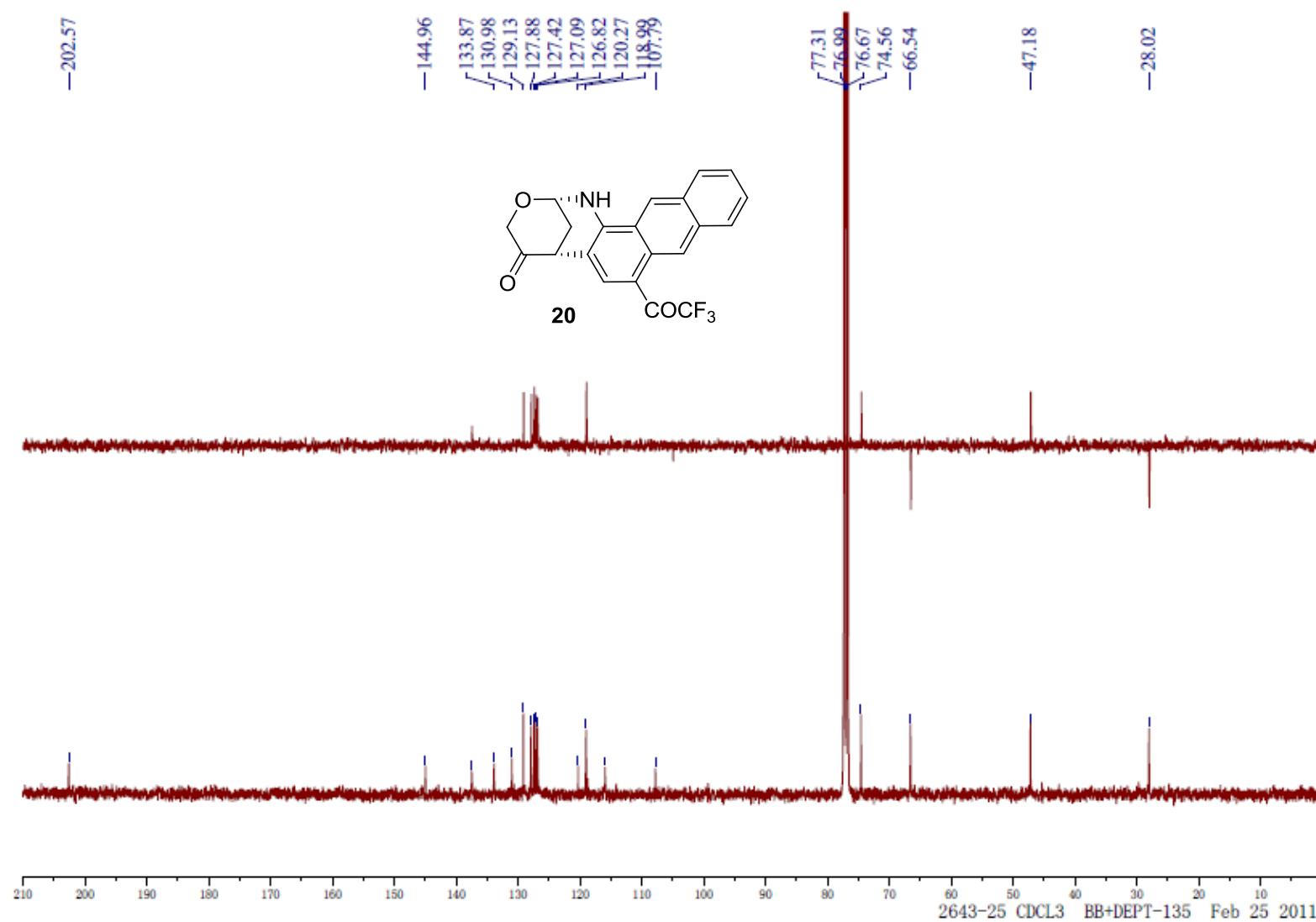


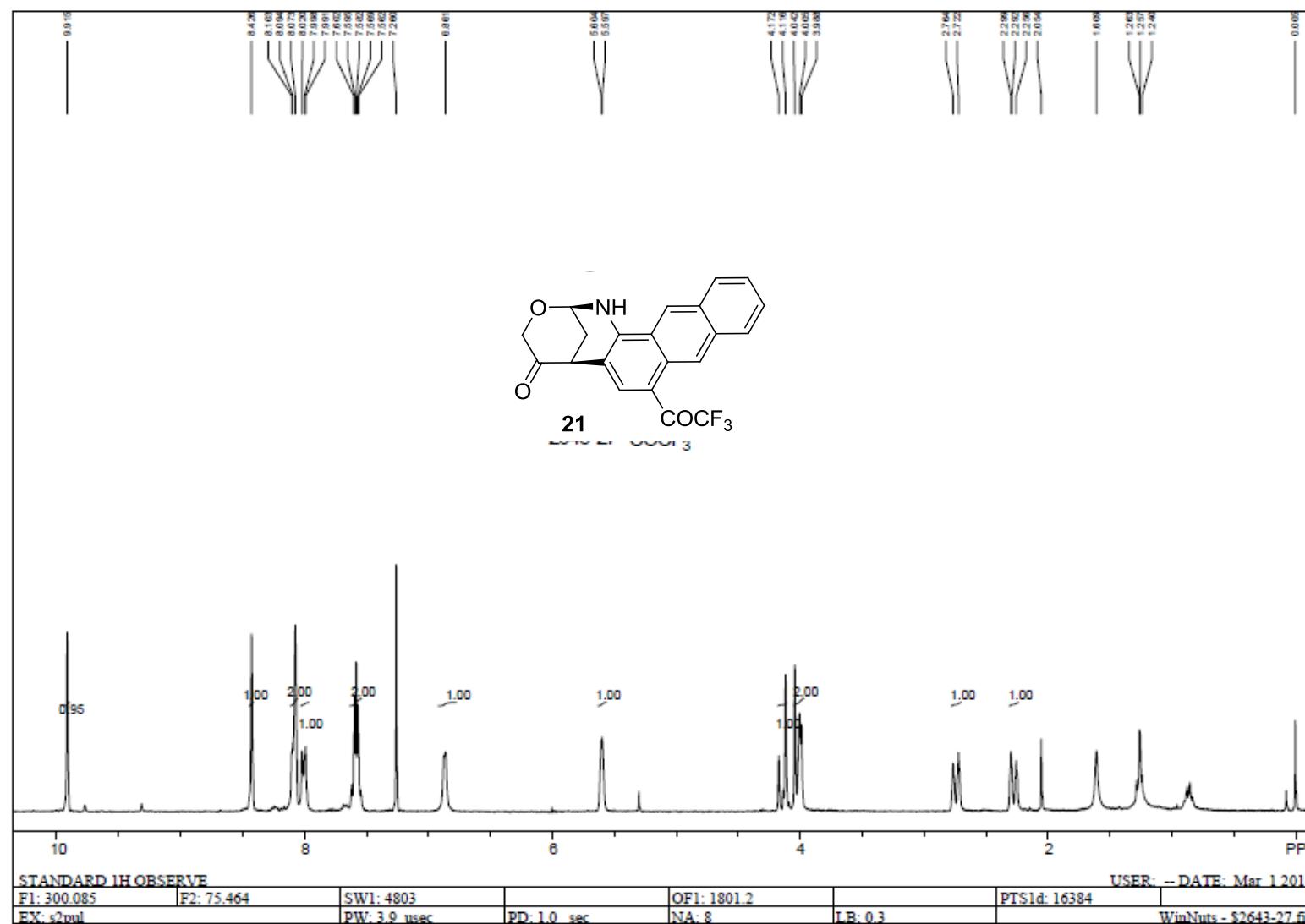


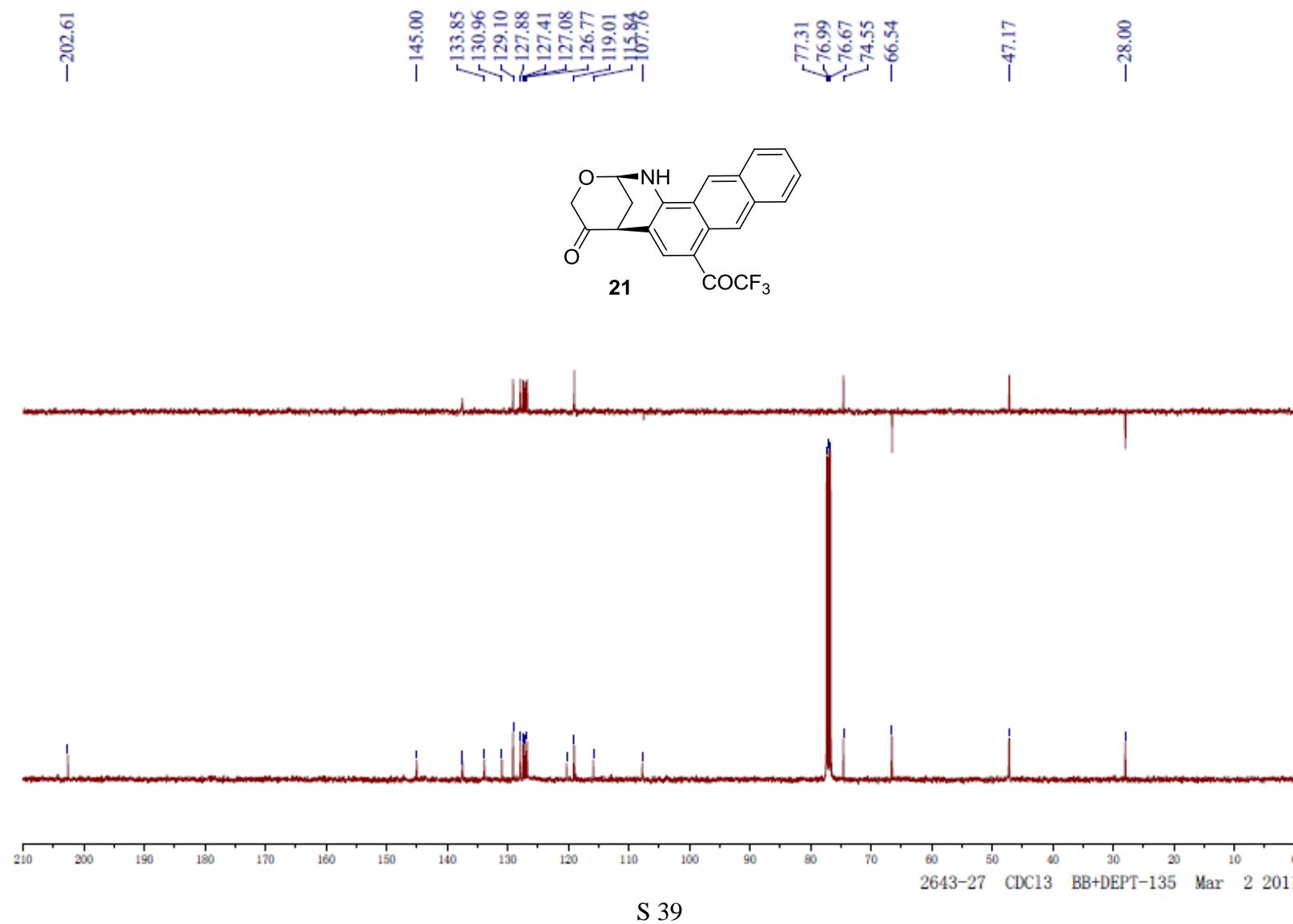


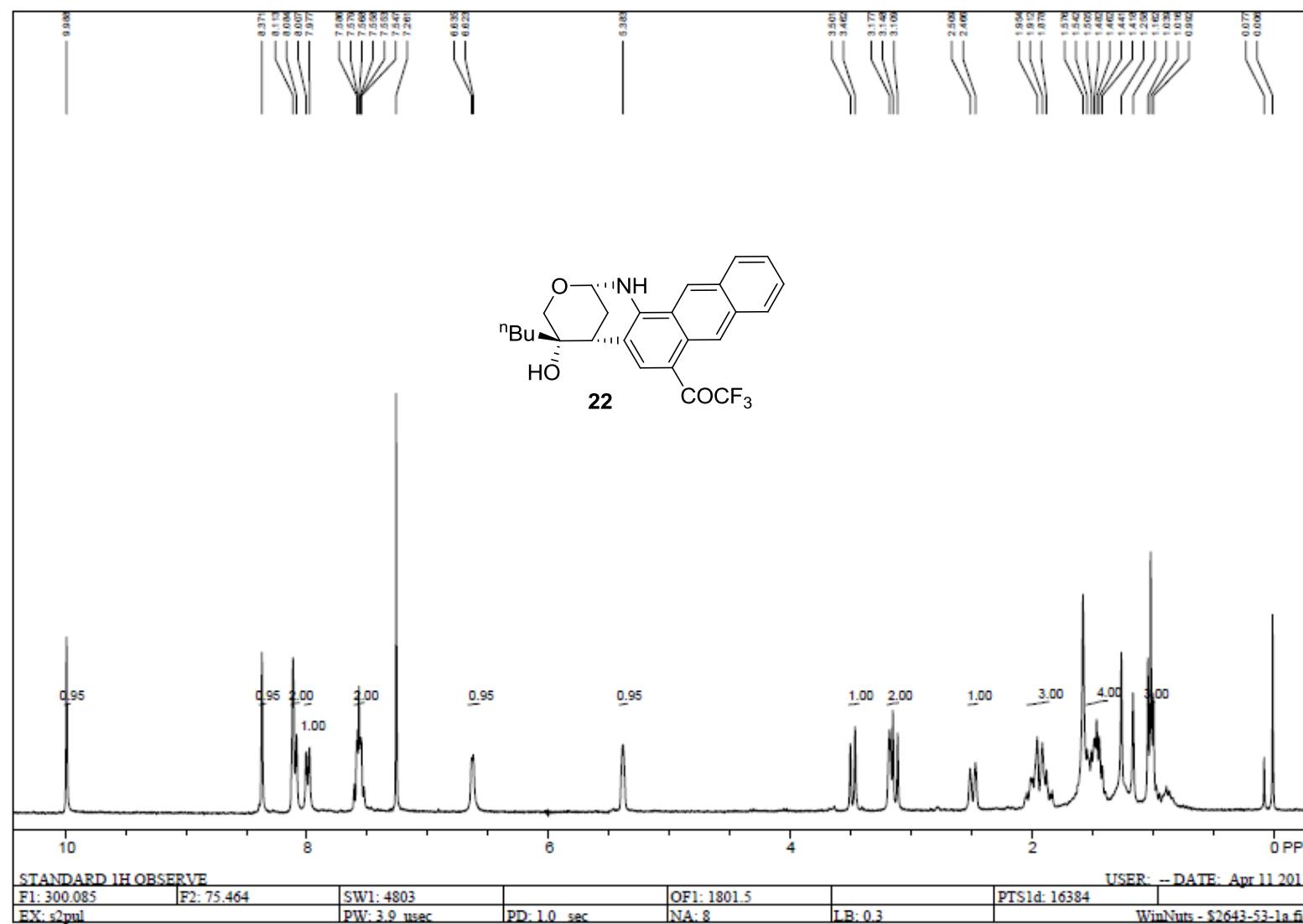


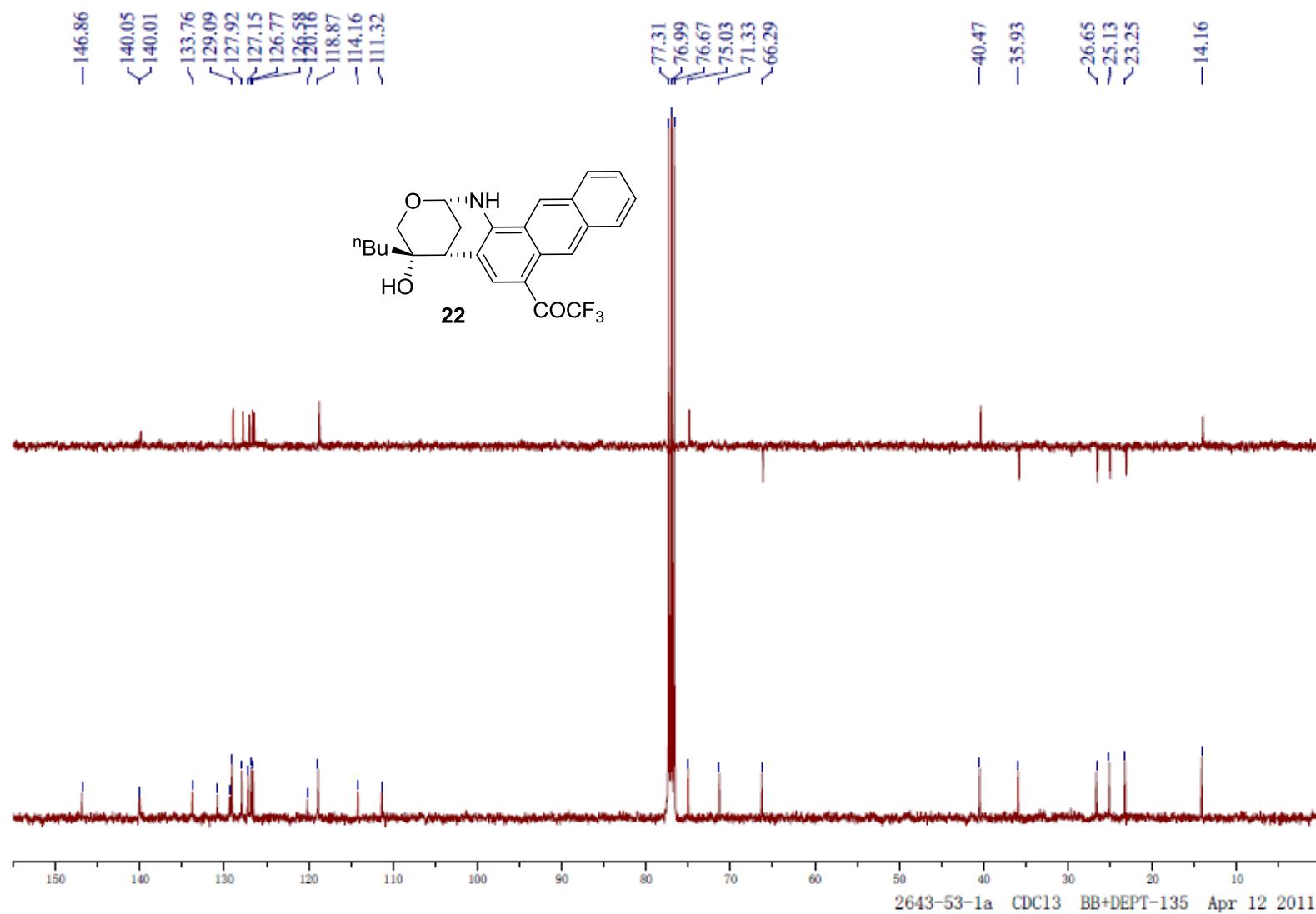


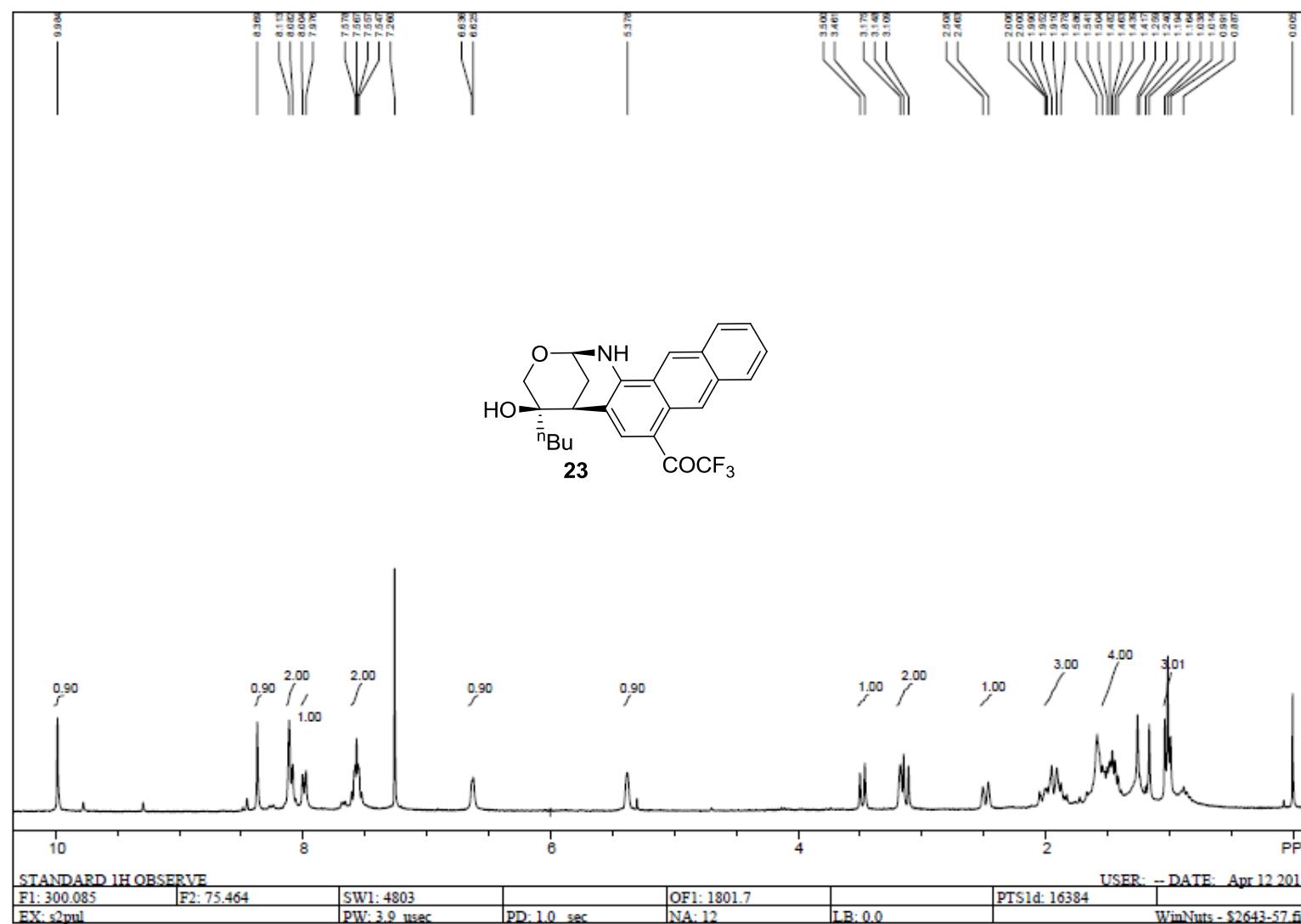


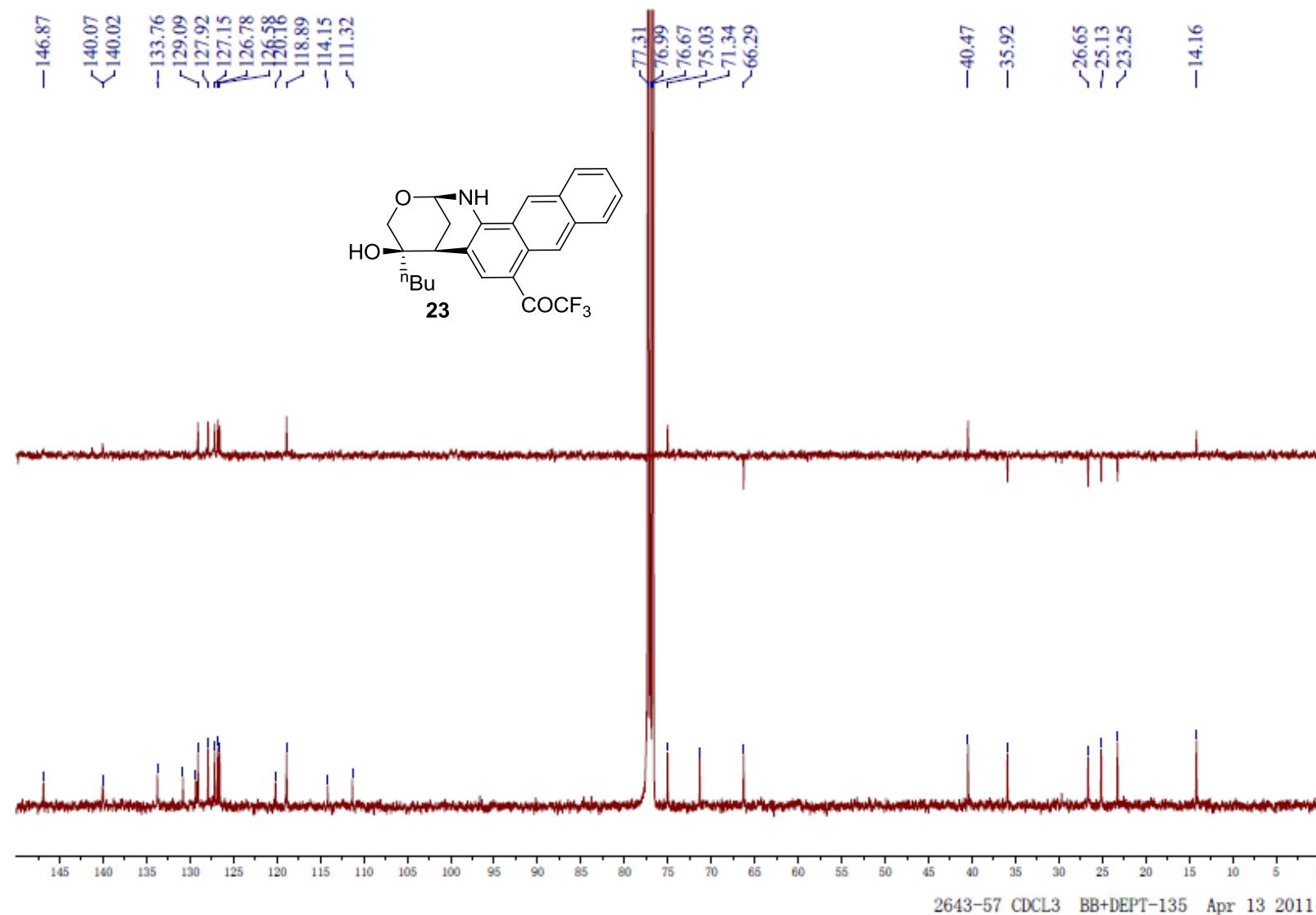




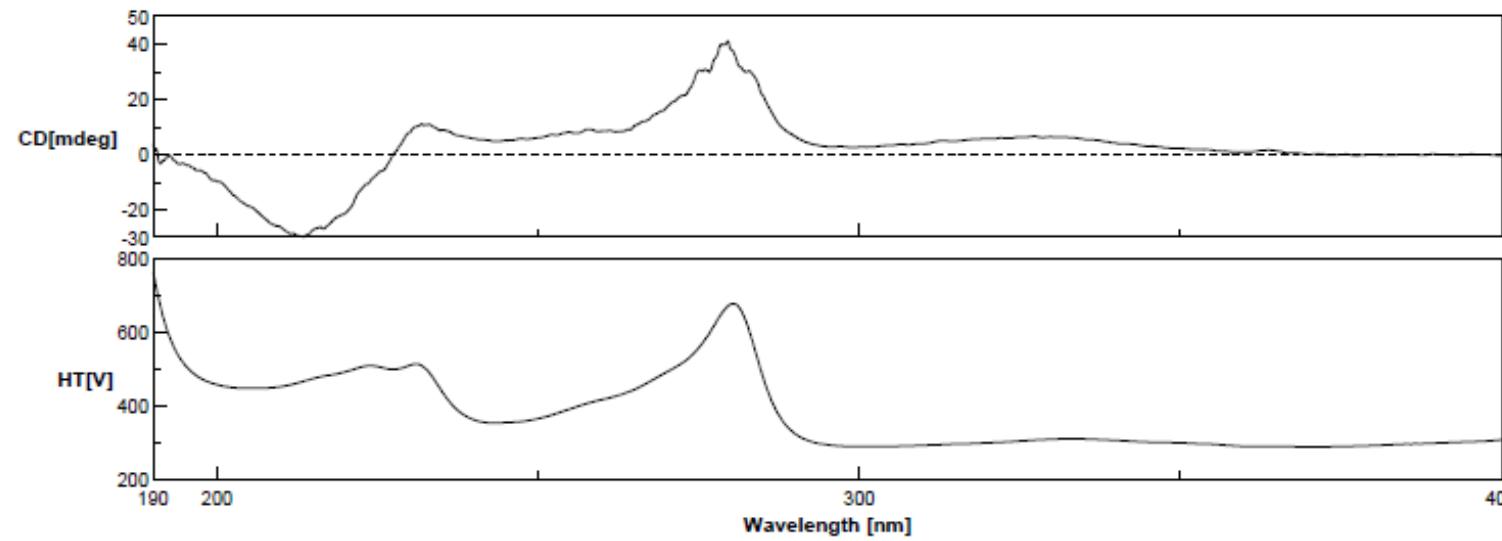






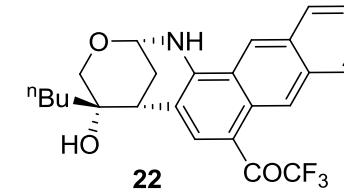


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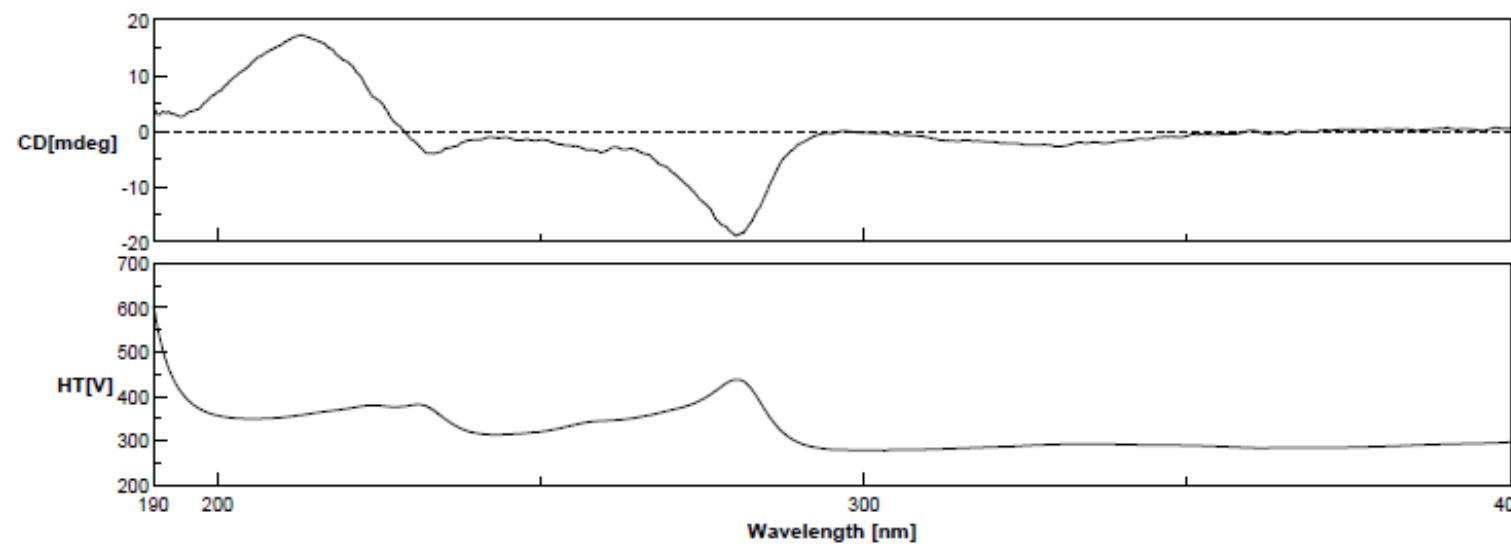


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Scanning speed 100 nm/min
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Concentration 0.064 (w/v)%
Solvent MeOH-s
Temperature Room Temperature
Sample name 2643-53-1a

File name 2643-53-1a.jws

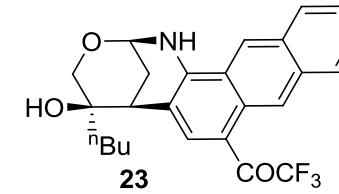


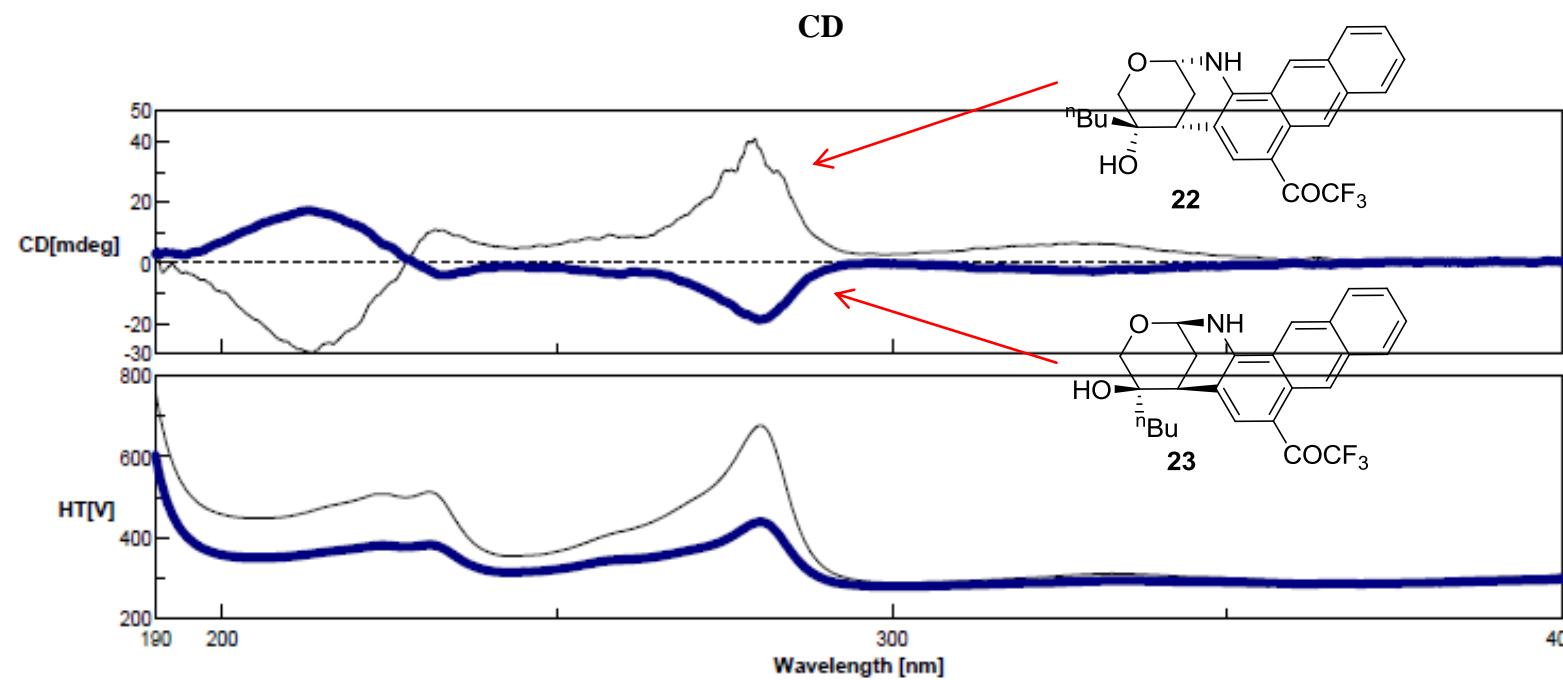
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Date 2011/4/15 13:54
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Sensitivity Standard
Measurement range 400 - 190 nm
Data pitch 0.1nm
Scanning speed 100 nm/min
Accumulation 3
Cell Length 0.05 cm
Concentration 0.045 (w/v)%
Solvent MeOH-g
Temperature Room Temperature
Sample name 2643-57

File name 2643-57.jws





Date 2011/4/15 13:54
File name 2643-57.jws
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Sensitivity Standard
Measurement range 400 - 190 nm
Data pitch 0.1nm
Scanning speed 100 nm/min
Accumulation 3
Cell Length 0.05 cm
Concentration 0.045 (w/v)%
Solvent MeOH-g
Temperature Room Temperature

2643-53-1a.jws
2643-57.jws