

L-DMDP, L-homoDMDP and Their C-3 Fluorinated Derivatives: Synthesis and Glycosidase-Inhibition

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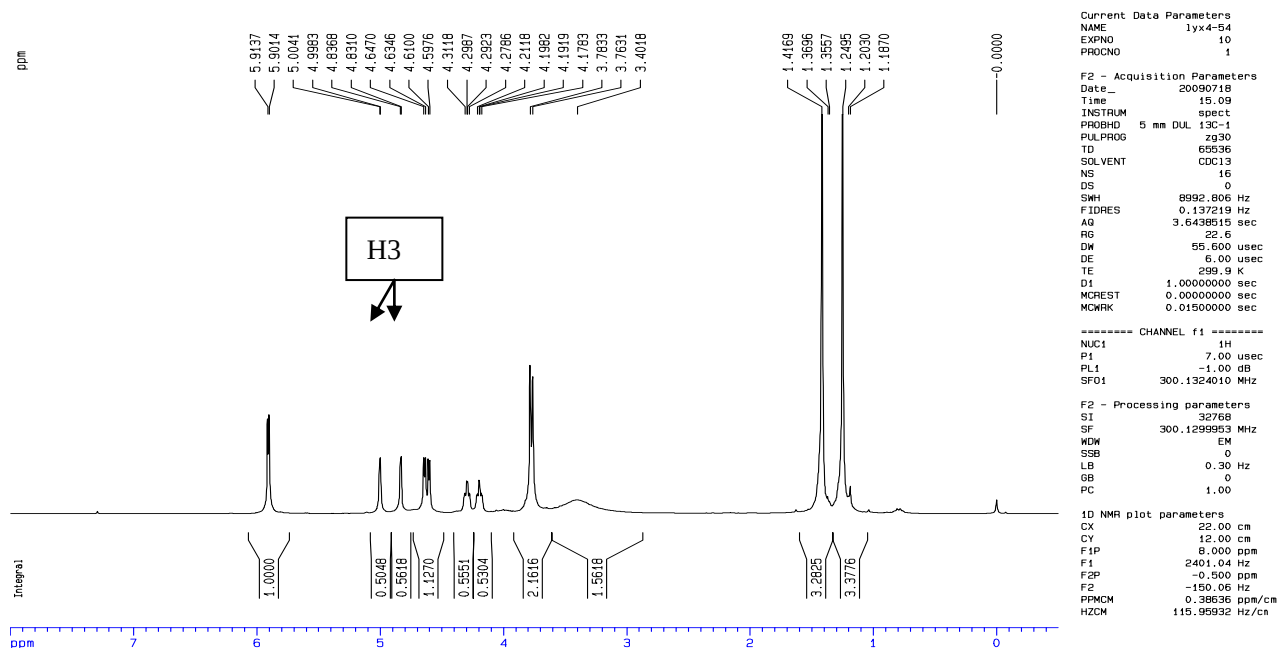
^bDepartment of Hospital Pharmacy, University of Toyama, 2630 Sugitani, Toyama 930-0194, Japan.

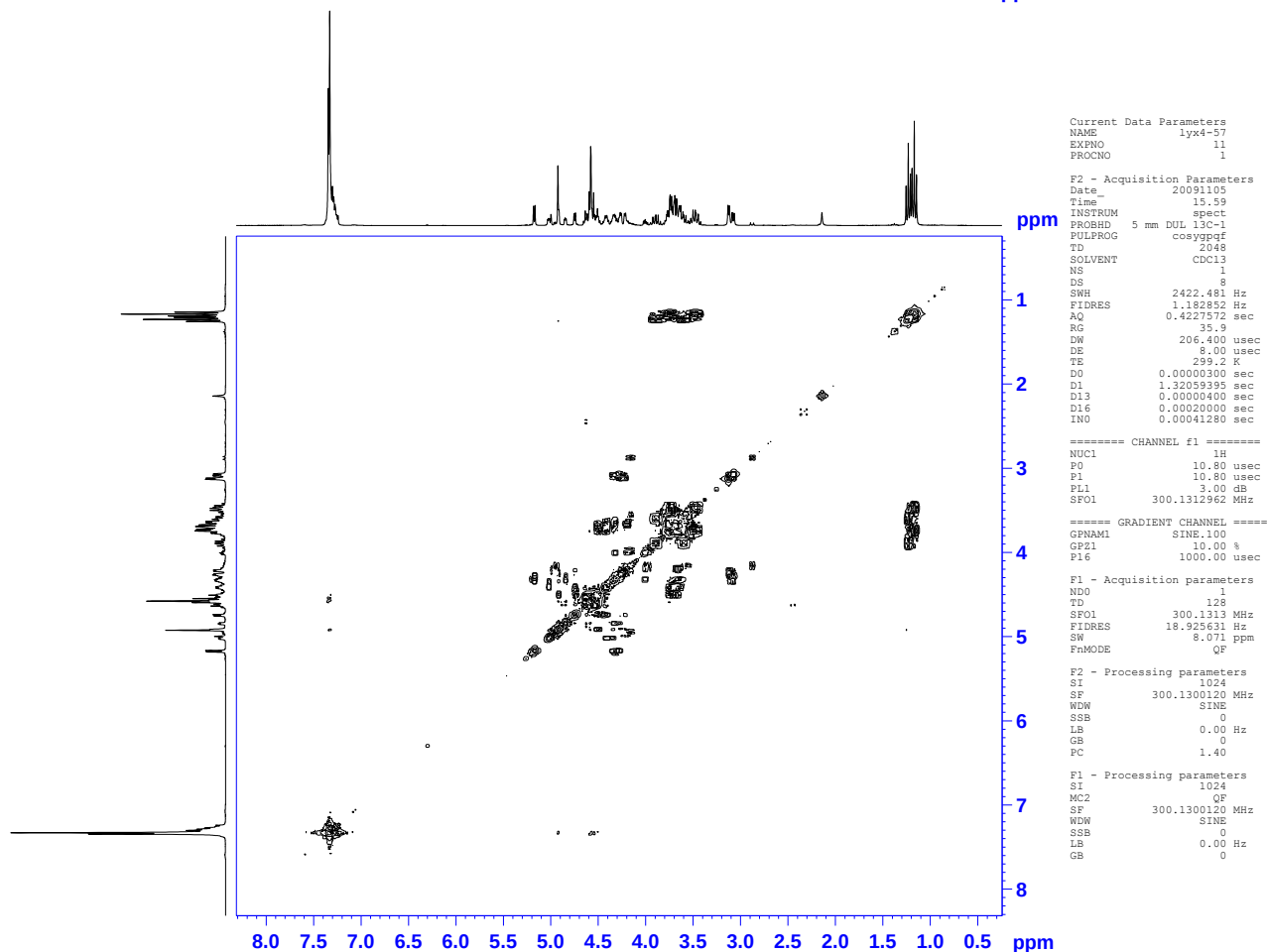
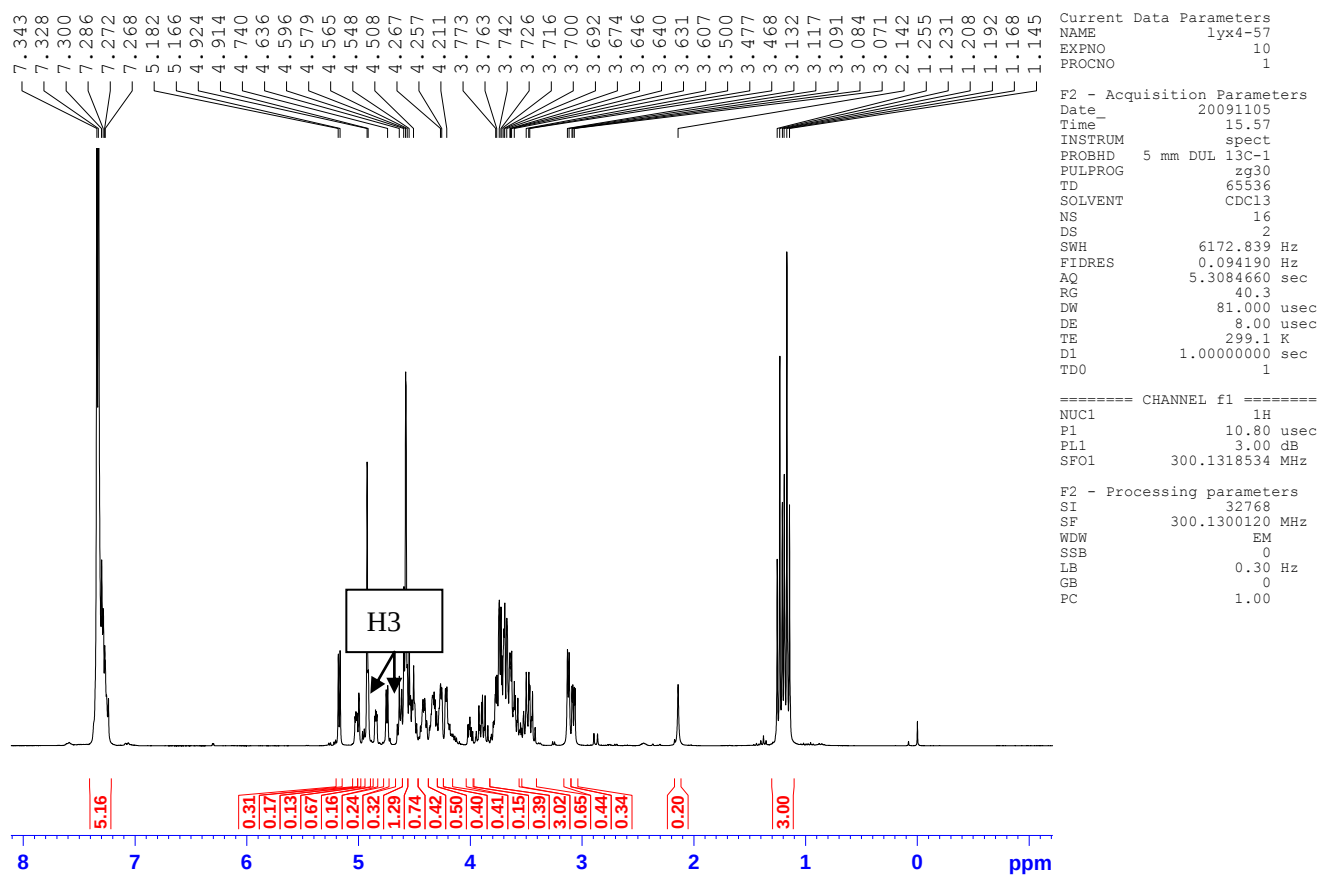
^cChemistry Research Laboratory, Department of Chemistry, University of Oxford, Mansfield Road, Oxford, OX1 3TA, UK.

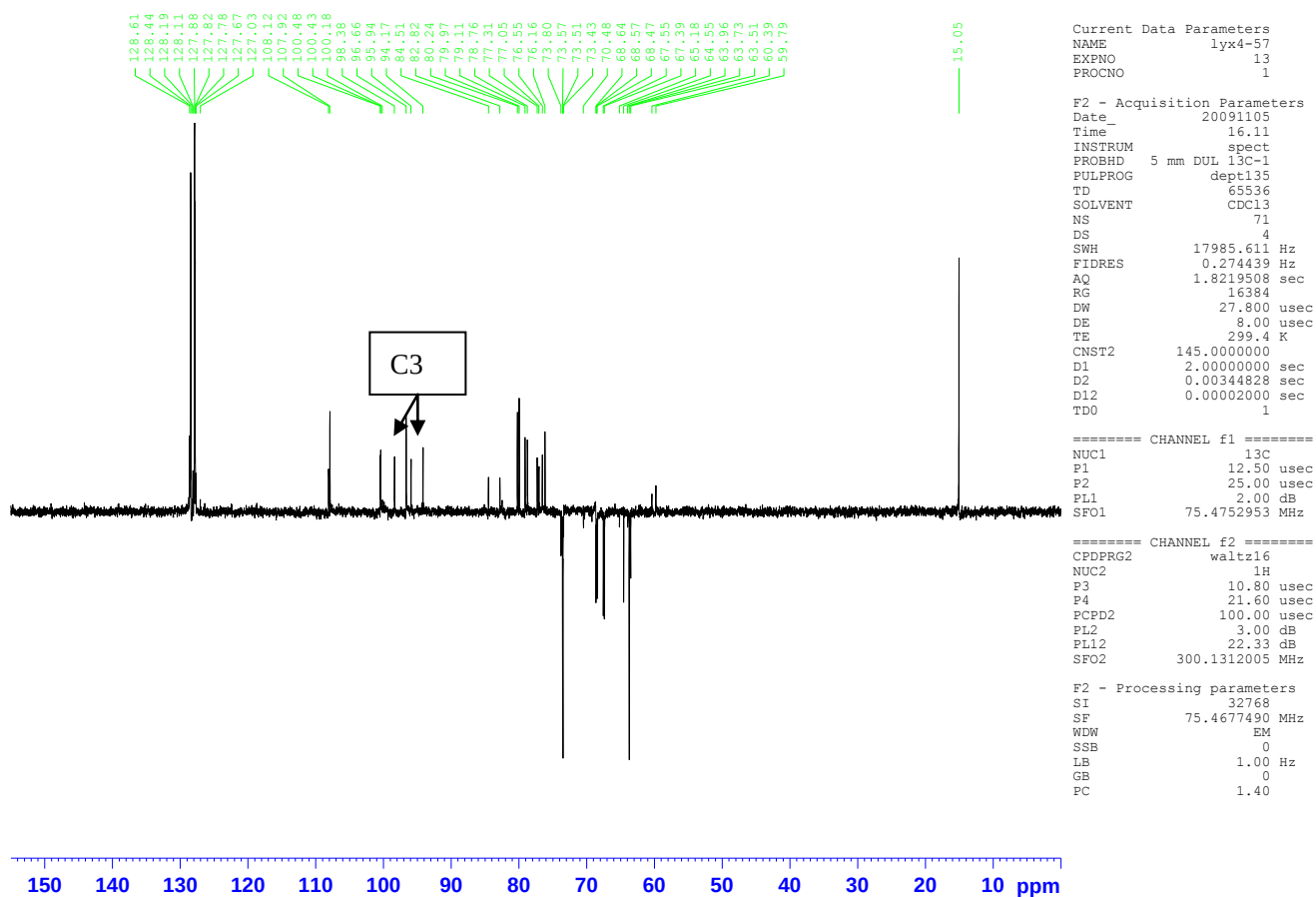
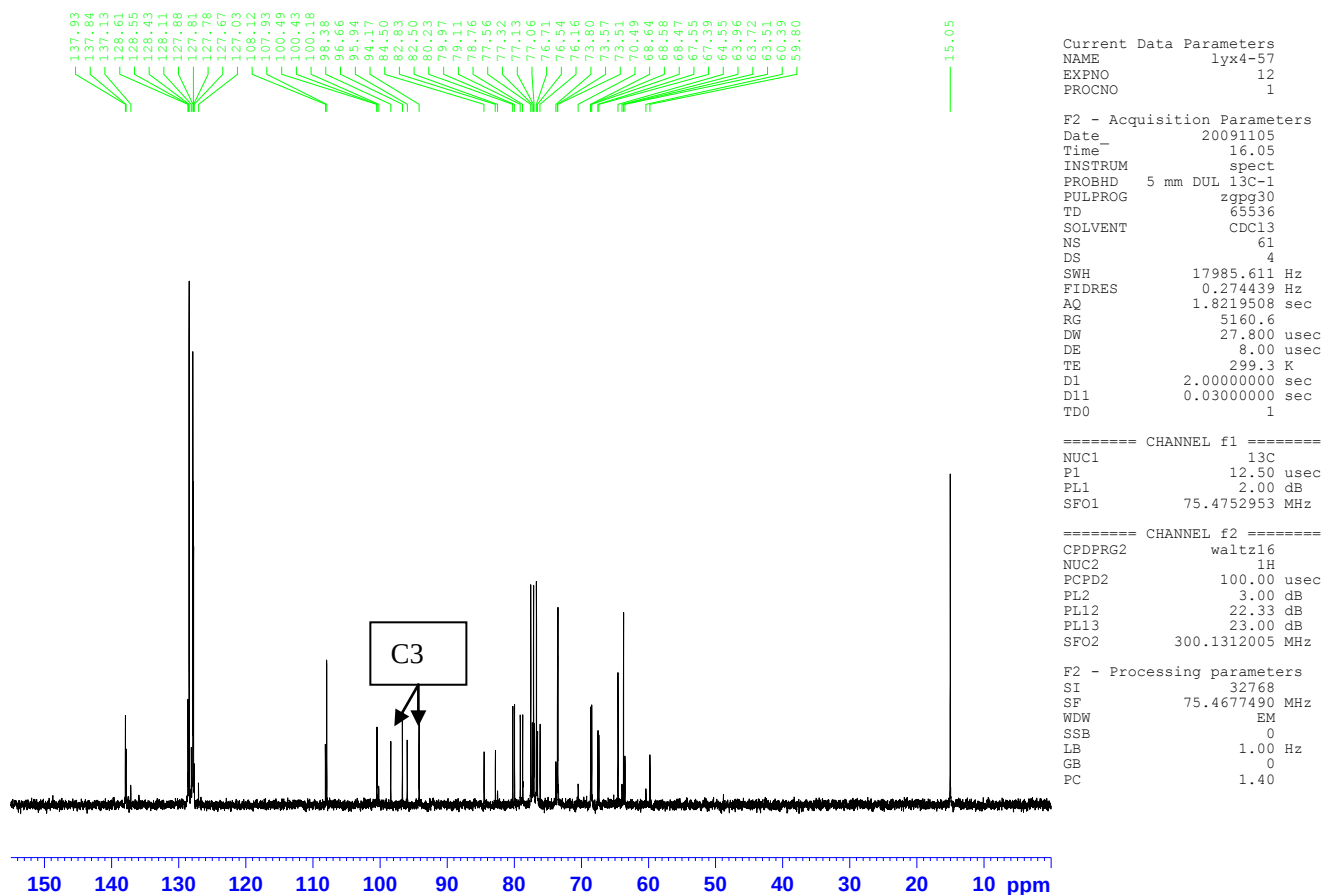
^dPhytoquest Limited, IBERS, Plas Gogerddan, Aberystwyth SY23 3EB, Ceredigion, Wales, UK.

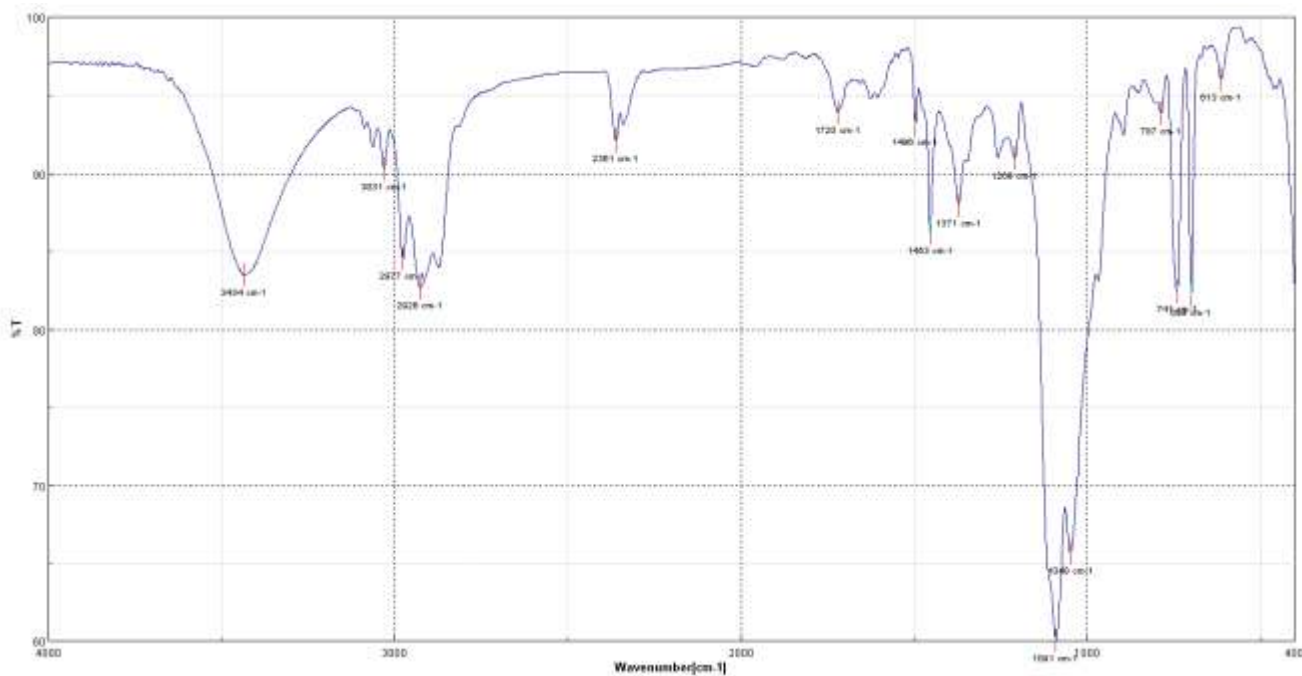
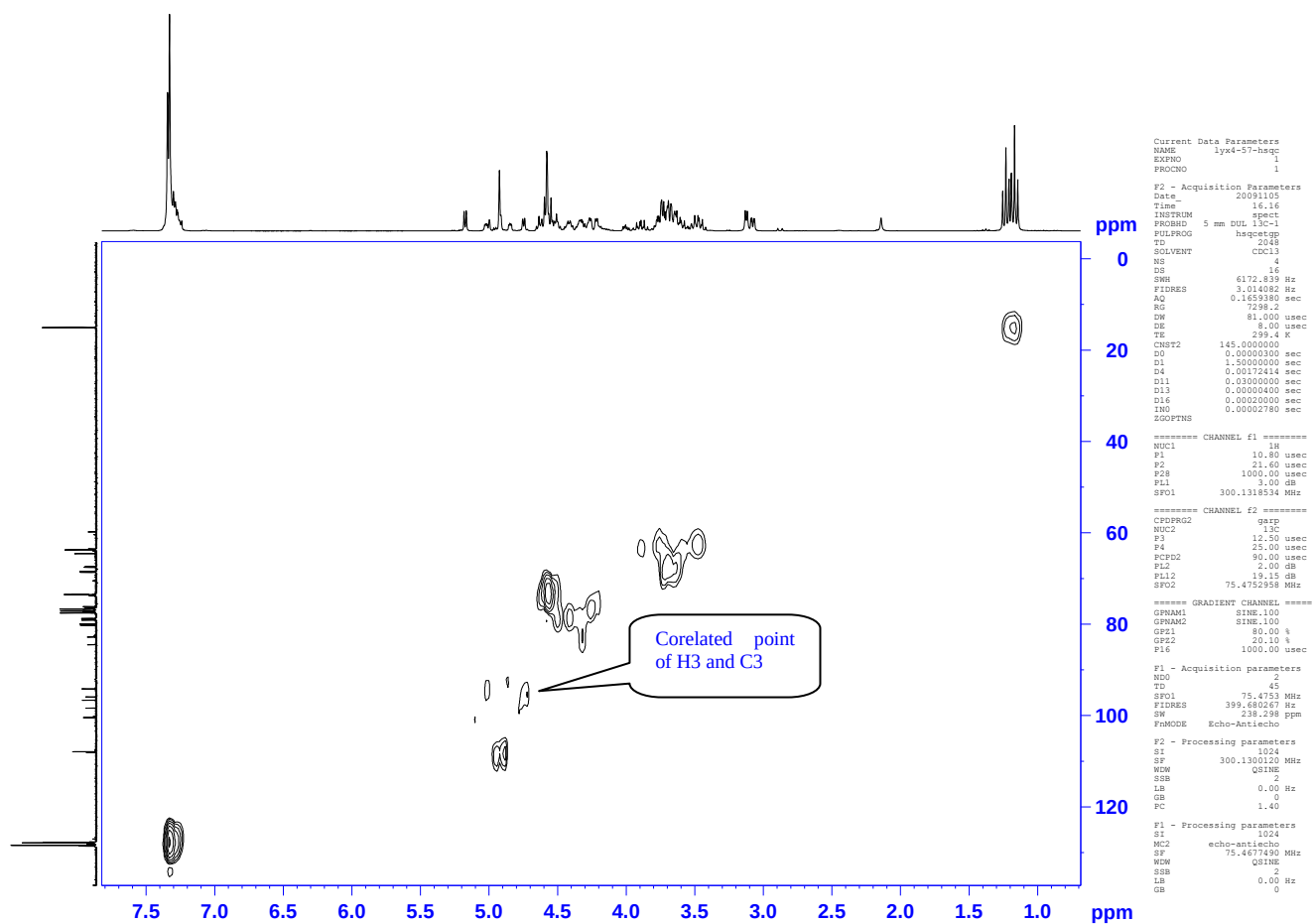
^eGraduate University of The Chinese Academy of Sciences, Beijing 100049, China.

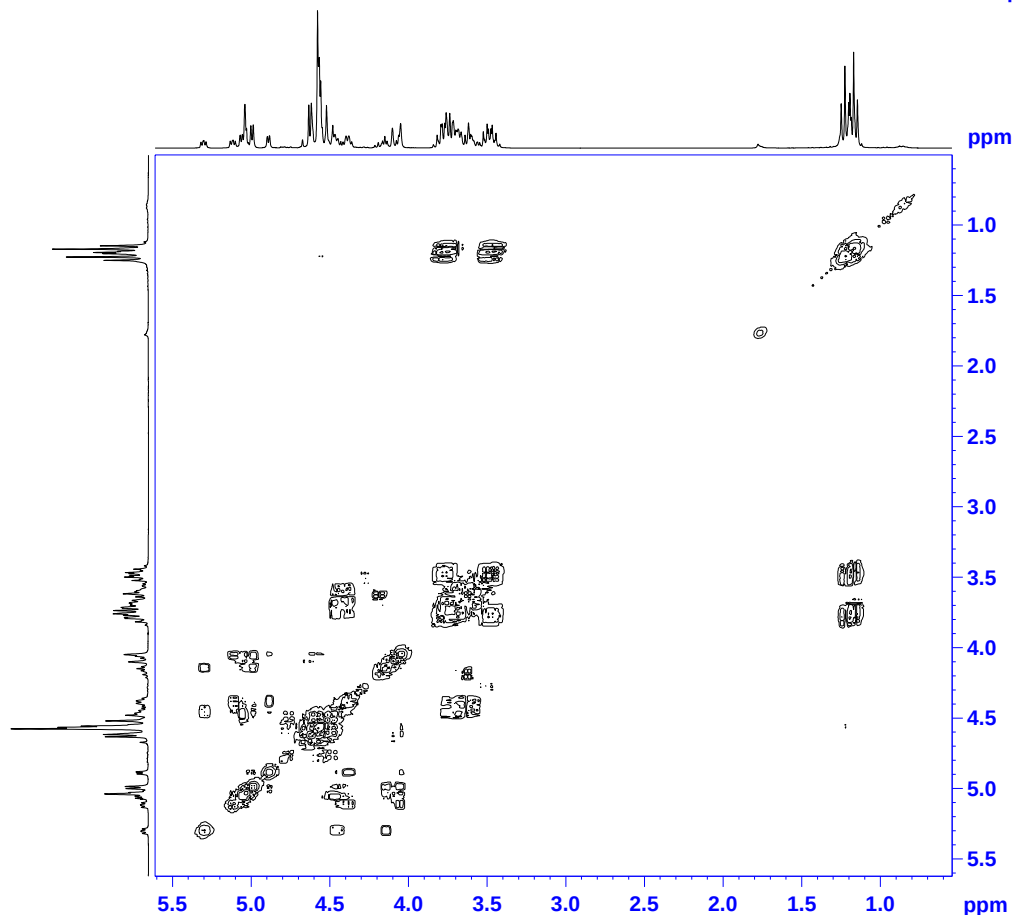
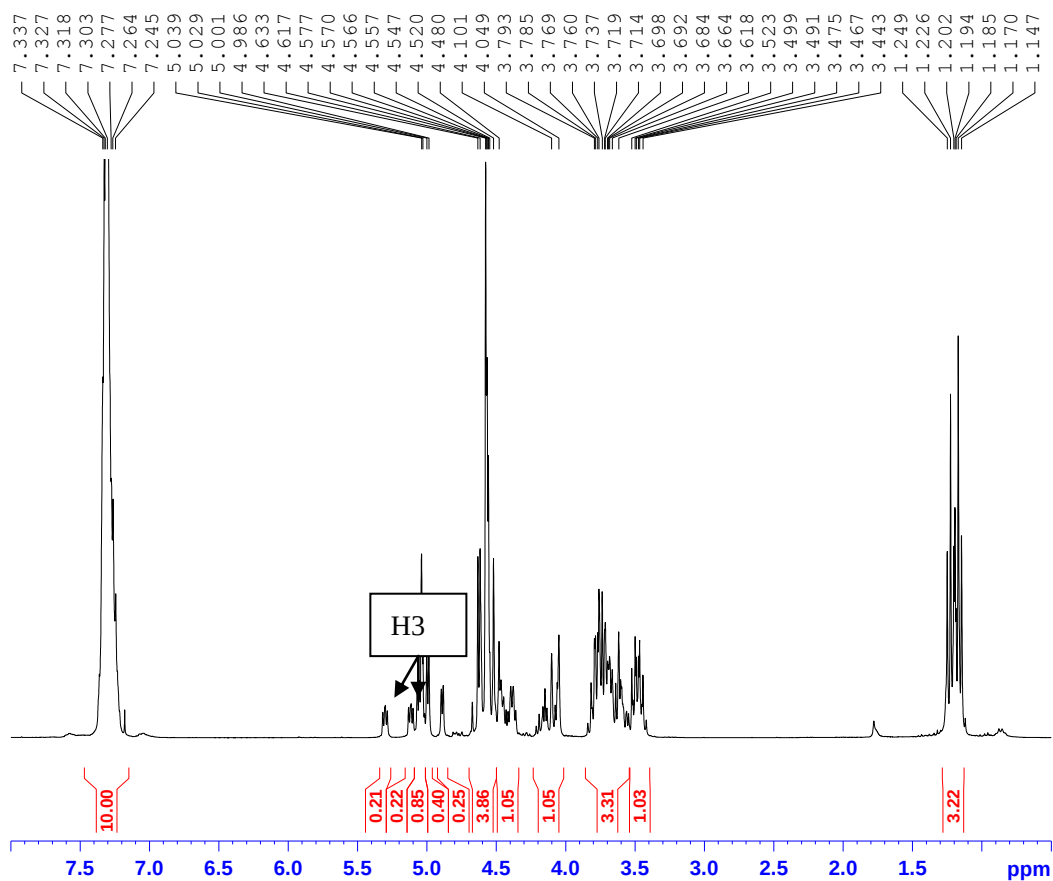
Supporting Information (NMR spectra and Infrared spectra)

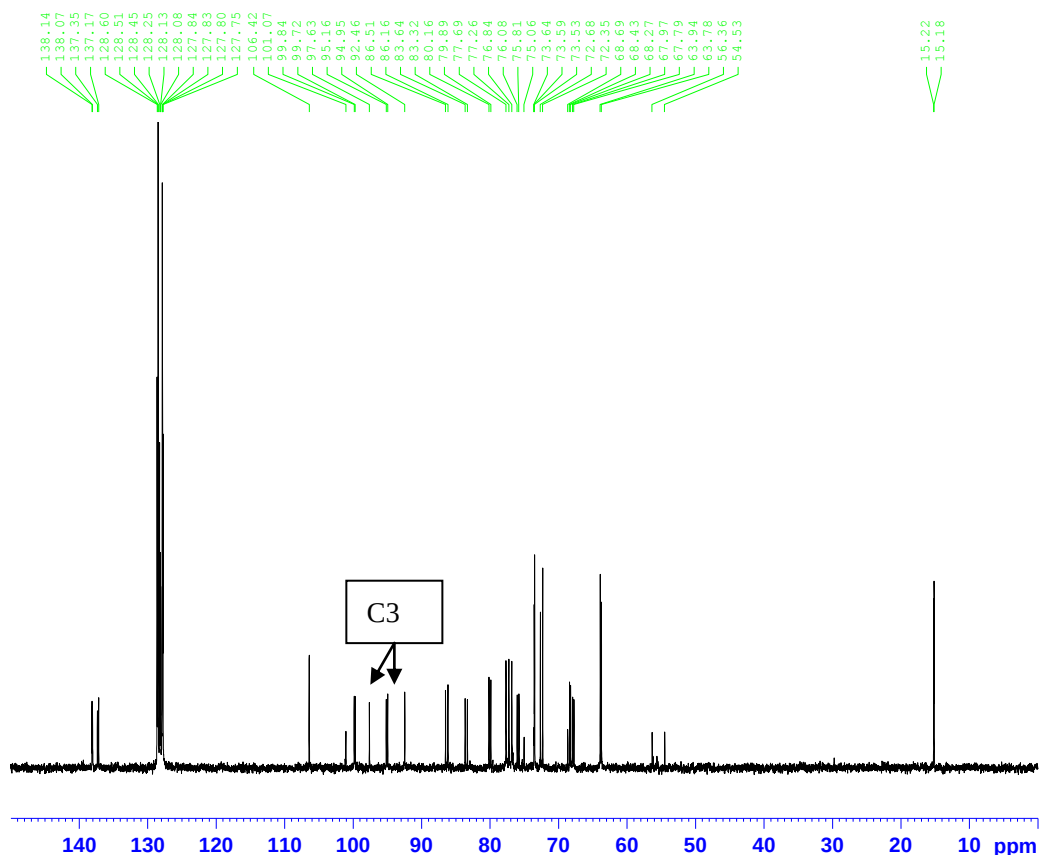












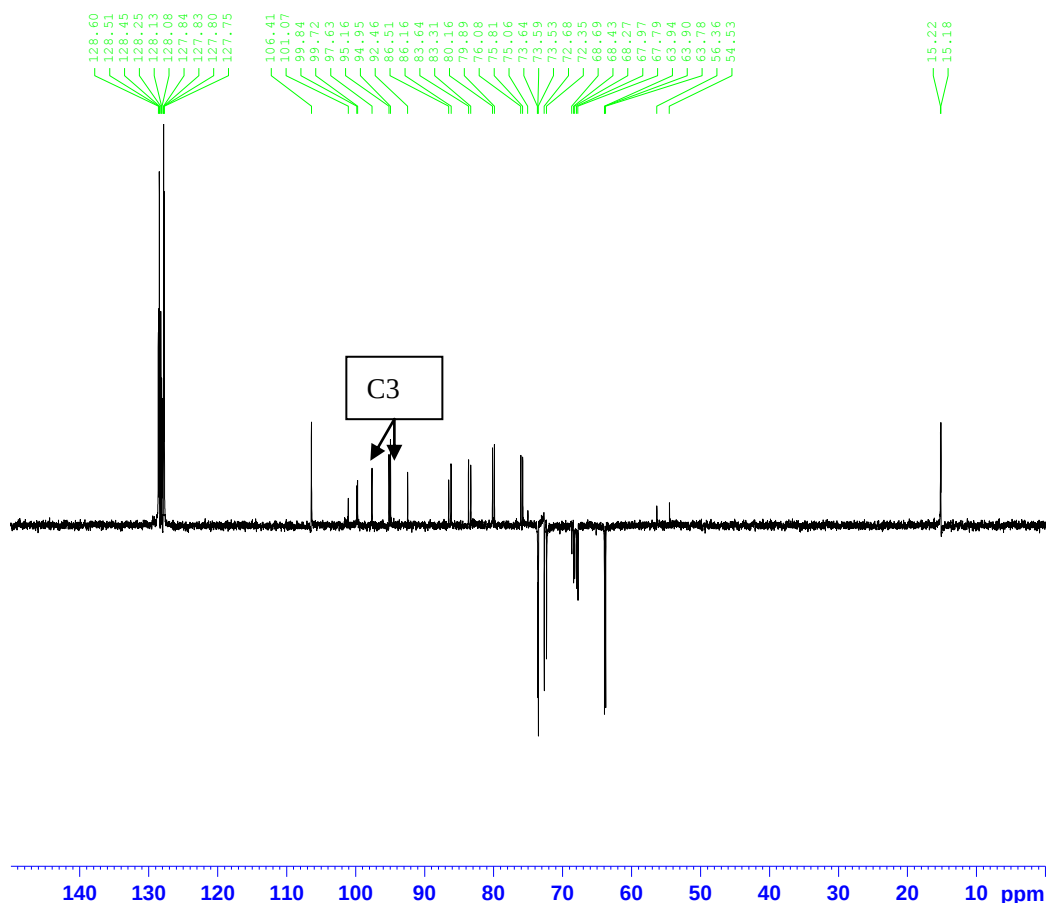
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PROCNO 1

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PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 58
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 13004
DW 27.800 usec
DE 8.00 usec
TE 297.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 12.50 usec
PL1 2.00 dB
SFO1 75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 3.00 dB
PL12 22.33 dB
PL13 23.00 dB
SFO2 300.1312005 MHz

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SSB 0
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PC 1.40



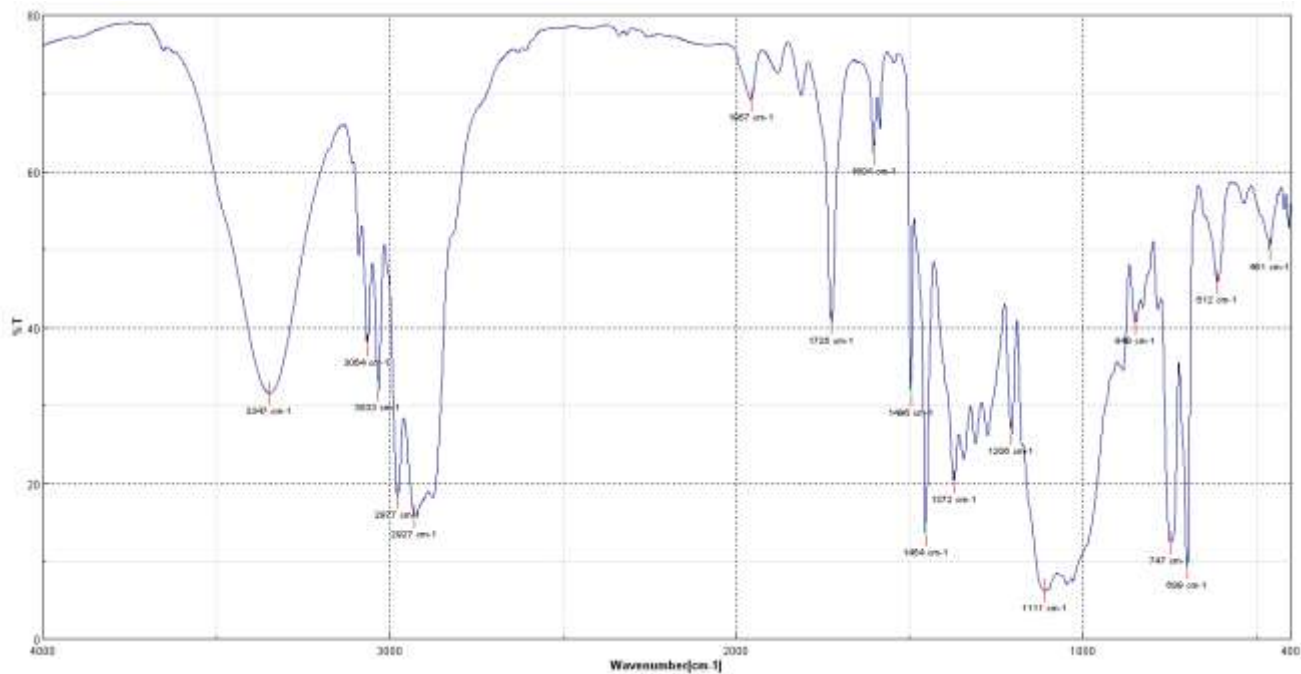
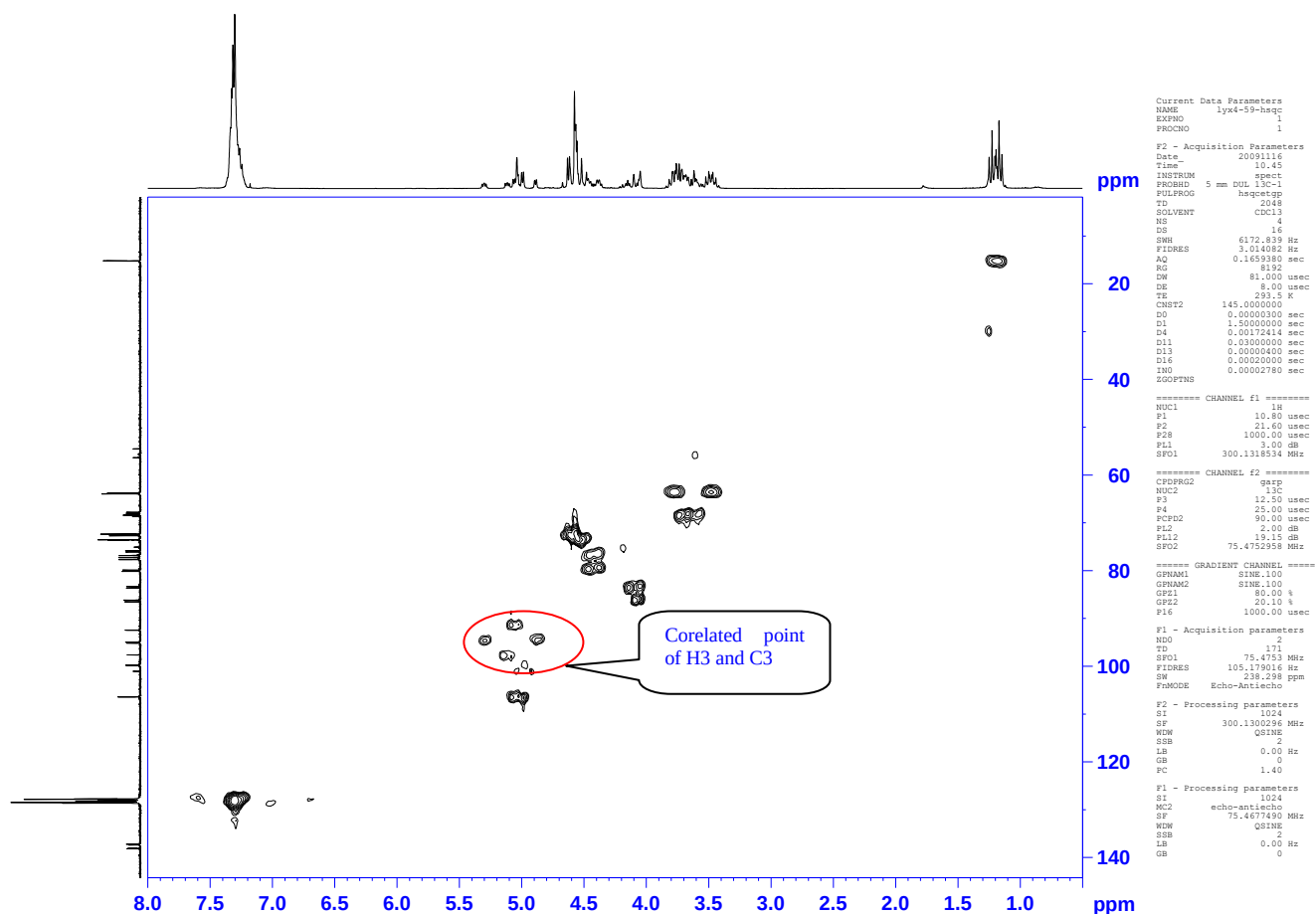
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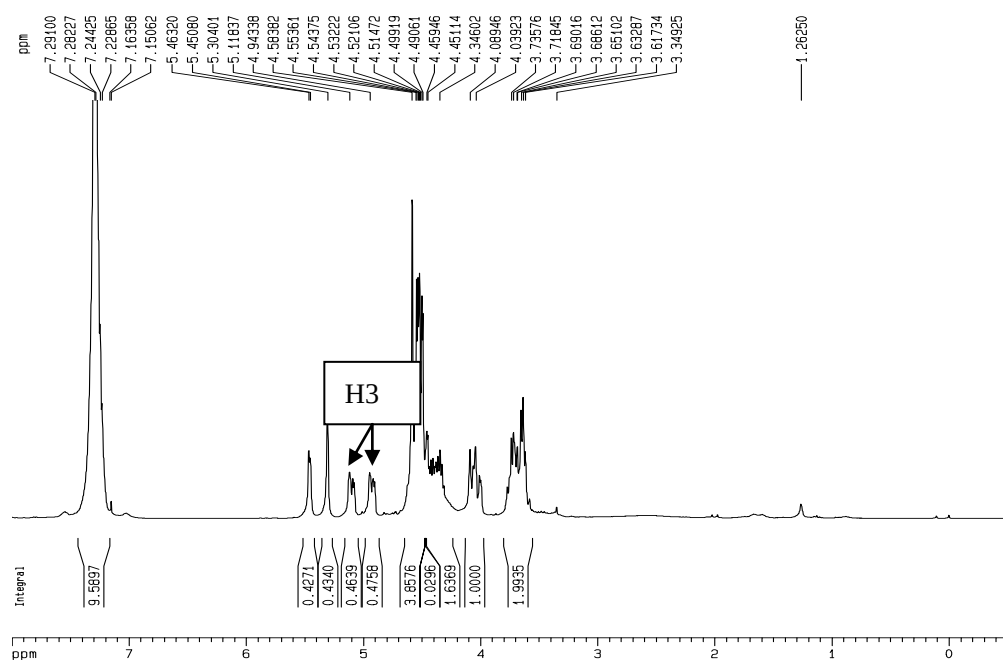
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TD 65536
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DS 4
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FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 16384
DW 27.800 usec
DE 8.00 usec
TE 297.1 K
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D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 12.50 usec
P2 25.00 usec
PL1 2.00 dB
SFO1 75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 10.80 usec
P4 21.60 usec
PCPD2 100.00 usec
PL2 3.00 dB
PL12 22.33 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
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SF 75.4677490 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





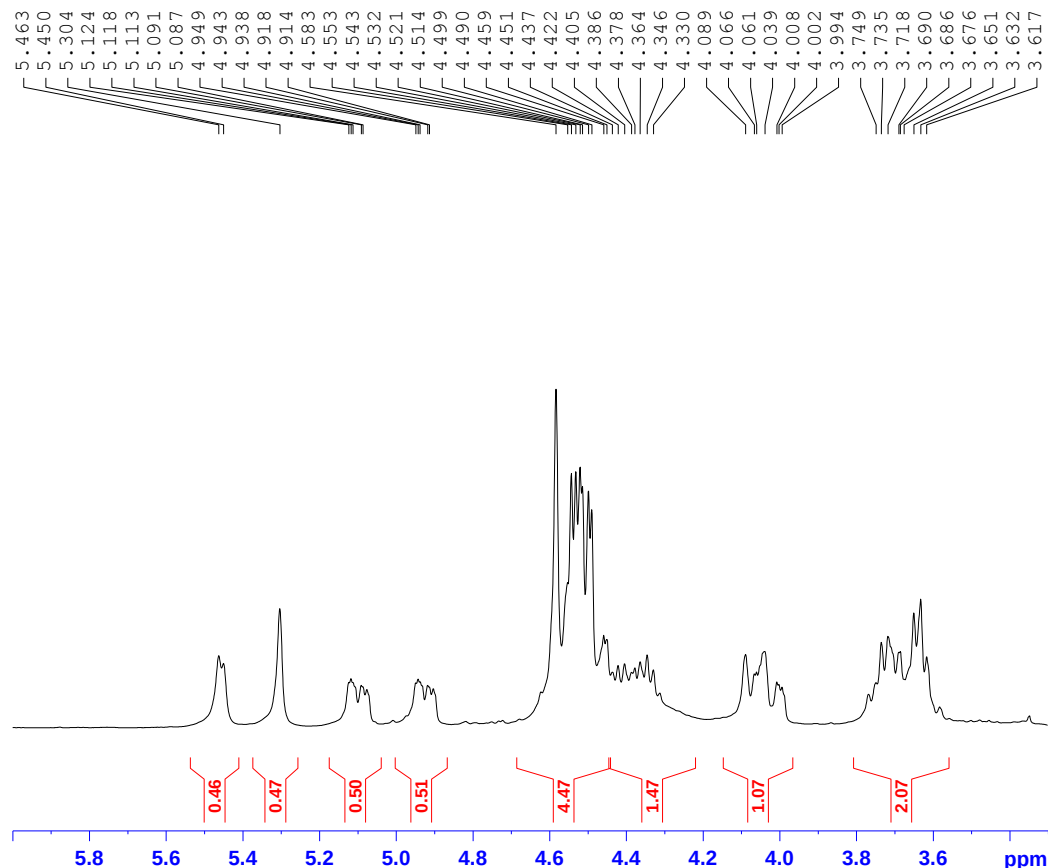
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PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8992.806 Hz
FIDRES 0.137219 Hz
AQ 3.6438515 sec
RG 25.4
DW 55.600 usec
DE 6.00 usec
TE 299.0 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.00 usec
PL1 -1.00 dB
SFO1 300.1324010 MHz

F2 - Processing parameters
SI 32768
SF 300.1300376 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
SI 20.00 cm
CY 8.00 cm
F1P 8.000 ppm
F1 2401.04 Hz
F2P -0.500 ppm
F2 -150.06 Hz
PPMCM 0.42500 ppm/cm
HZCM 127.55526 Hz/cm

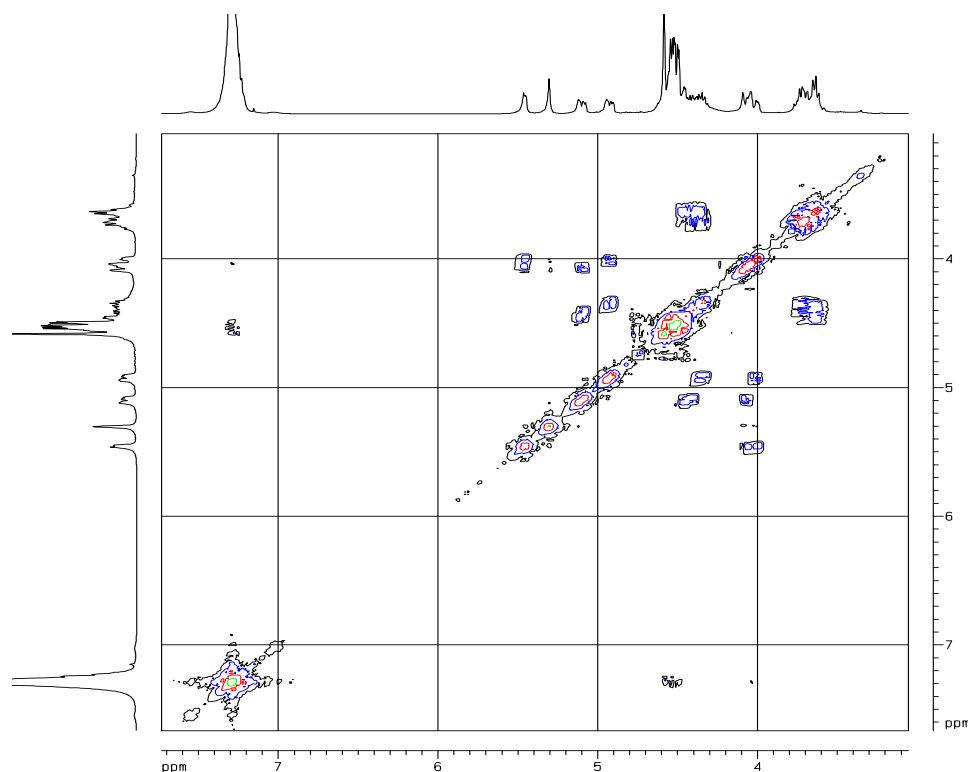


Current Data Parameters
NAME lyx4-60
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090725
Time 16.30
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8992.806 Hz
FIDRES 0.137219 Hz
AQ 3.6438515 sec
RG 25.4
DW 55.600 usec
DE 6.00 usec
TE 299.0 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.00 usec
PL1 -1.00 dB
SFO1 300.1324010 MHz

F2 - Processing parameters
SI 32768
SF 300.1300376 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



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Current Data Parameters
NAME      jyx4-50
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20090725
Time      16.30
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         1
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219506 sec
RG          645.1
DW         27.800 usec
DE          6.00 usec
TE         300.0 K
D1         2.00000000 sec
d11        0.03000000 sec
DELTA      1.89999999 sec
MCREST     0.00000000 sec
MCWRR      0.01500000 sec

----- CHANNEL f1 -----
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SF01       75.4752953 MHz

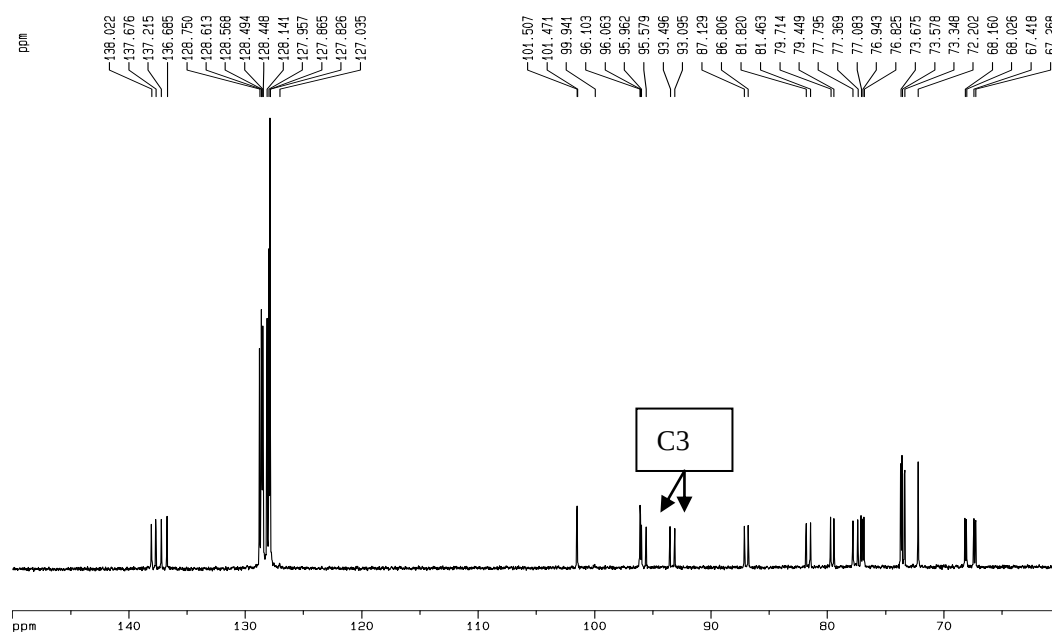
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CPDPRG2   waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -1.00 dB
PL12       20.16 dB
PL13       16.36 dB
SF02       300.1312005 MHz

F2 - Processing parameters
SI         32768
SF         75.4677490 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40

F1 - Acquisition parameters
ND         1
TD         128
SF01       300.1315 MHz
FIDRES     22.144274 Hz
SW         9.444 ppm
FHM000     0

F2 - Processing parameters
SI         1024
SF         300.1300376 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
PC         1.40

F1 - Processing parameters
SI         1024
SF         300.1300376 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
PC         1.40
  
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Current Data Parameters
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EXPNO     12
PROCNO    1

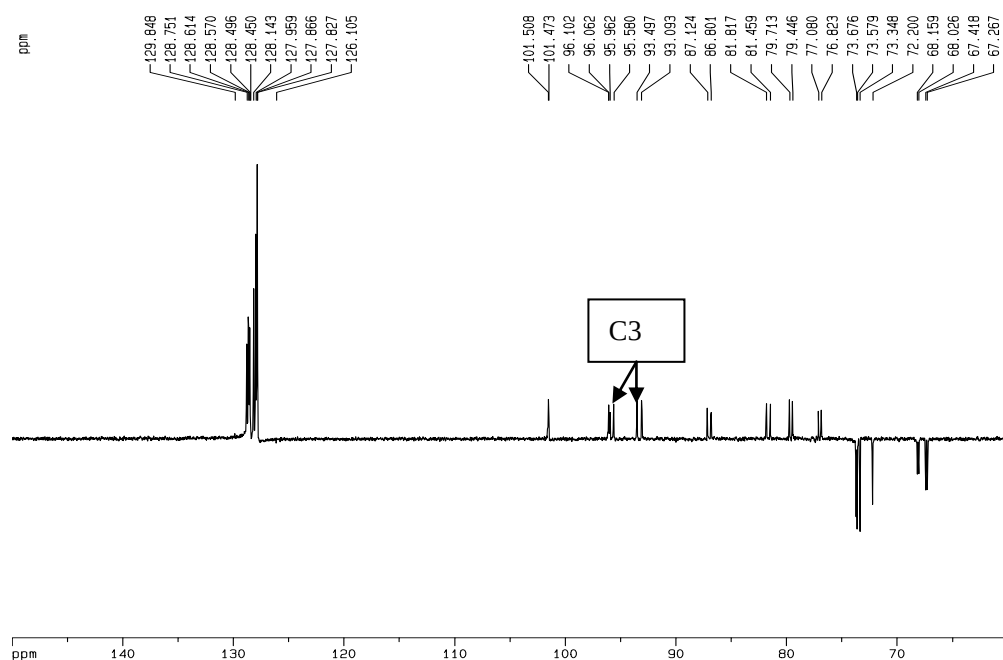
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TD         65536
SOLVENT   CDCl3
NS         97
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219506 sec
RG          645.1
DW         27.800 usec
DE          6.00 usec
TE         300.0 K
D1         2.00000000 sec
d11        0.03000000 sec
DELTA      1.89999999 sec
MCREST     0.00000000 sec
MCWRR      0.01500000 sec

----- CHANNEL f1 -----
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SF01       75.4752953 MHz

----- CHANNEL f2 -----
CPDPRG2   waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -1.00 dB
PL12       20.16 dB
PL13       16.36 dB
SF02       300.1312005 MHz

F2 - Processing parameters
SI         32768
SF         75.4677490 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40

1D NMR plot parameters
CX         22.00 cm
CY         12.00 cm
F1P        150.000 ppm
F1         11350.16 Hz
F2P        60.000 ppm
F2         4528.06 Hz
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HZCM       308.73172 Hz/cm
  
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Current Data Parameters
NAME lyx4-60
EXPNO 13
PROCNO 1

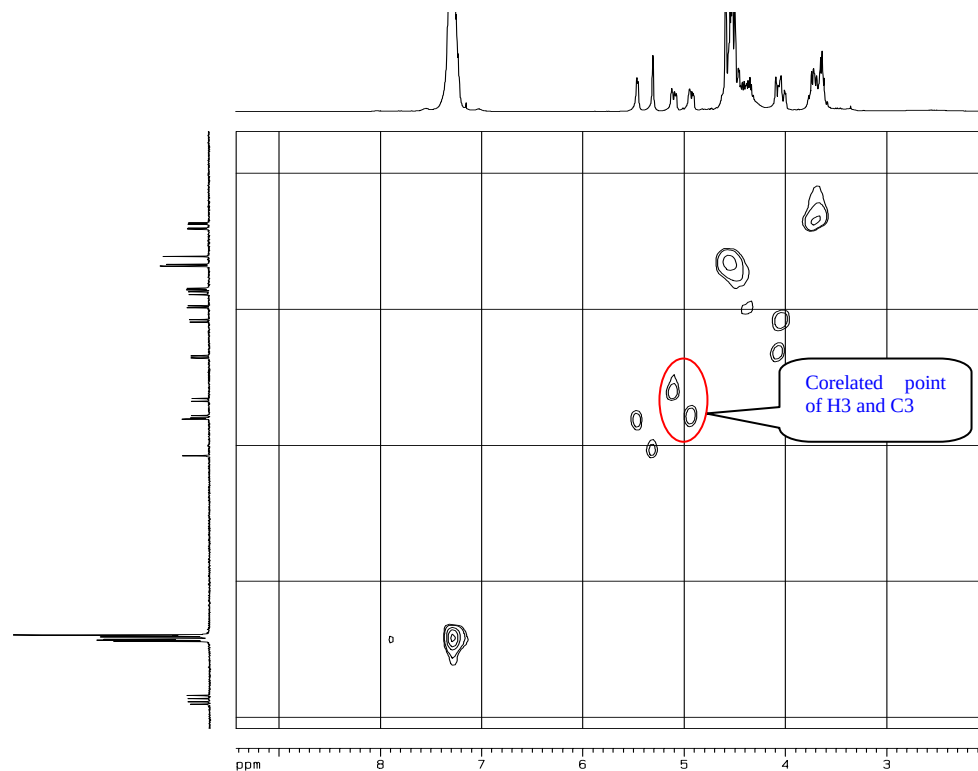
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Time 16.43
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PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 34
DS 0
SWH 17985.611 Hz
FIDRES 0.274429 Hz
AQ 1.8219508 sec
RG 645.1
DW 27.800 usec
DE 6.00 usec
TE 300.4 K
CHST2 145.0000000
D1 2.000000000 sec
d2 0.00344828 sec
d12 0.000000000 sec
DELTA 0.00001592 sec
MCREST 0.00000000 sec
MCNRM 0.01500000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 12.50 usec
P2 25.00 usec
PL1 2.00 dB
SF01 75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 7.00 usec
P4 14.00 usec
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 20.16 dB
SF02 300.1312009 MHz

F2 - Processing parameters
SI 32768
SF 75.4677490 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 20.00 cm
CY 7.00 cm
F1P 150.000 ppm
F1 11320.16 Hz
F2P 60.000 ppm
F2 450.136 MHz
PPMCM 4.50000 ppm/cm
HZCM 339.60489 Hz/cm



Current Data Parameters
NAME lyx4-60-hsqc
EXPNO 1
PROCNO 1

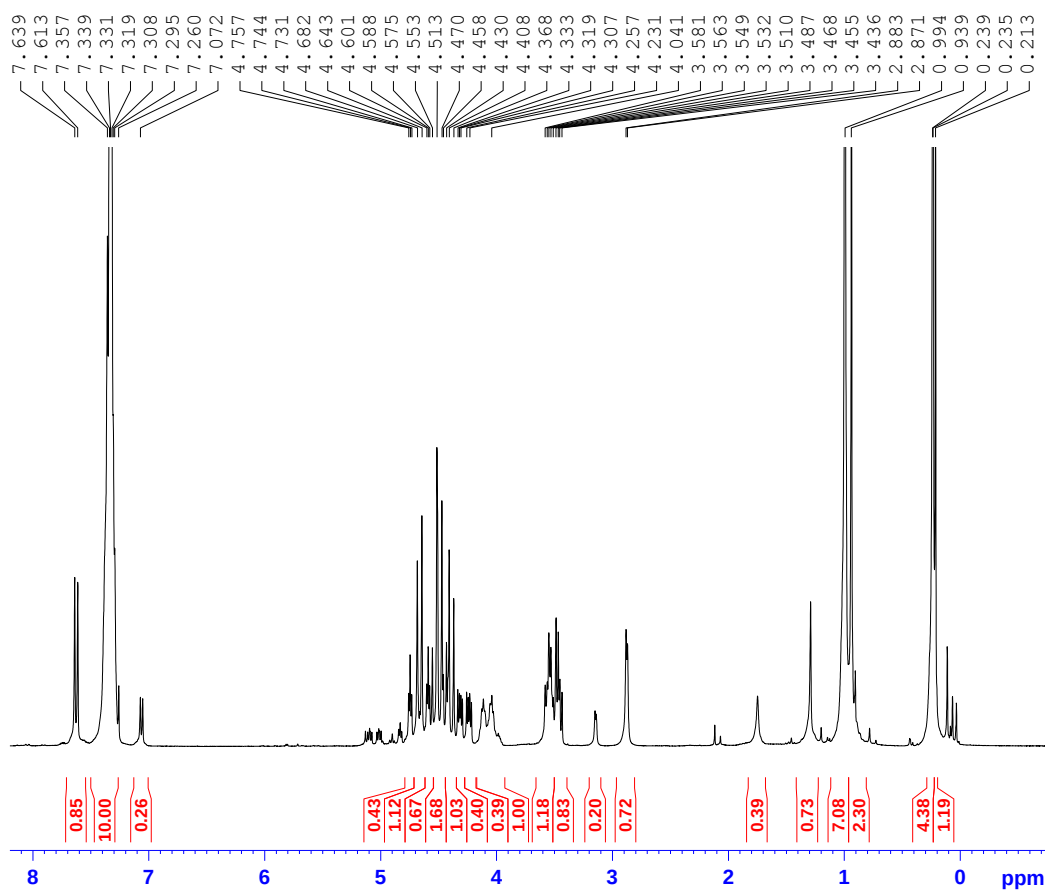
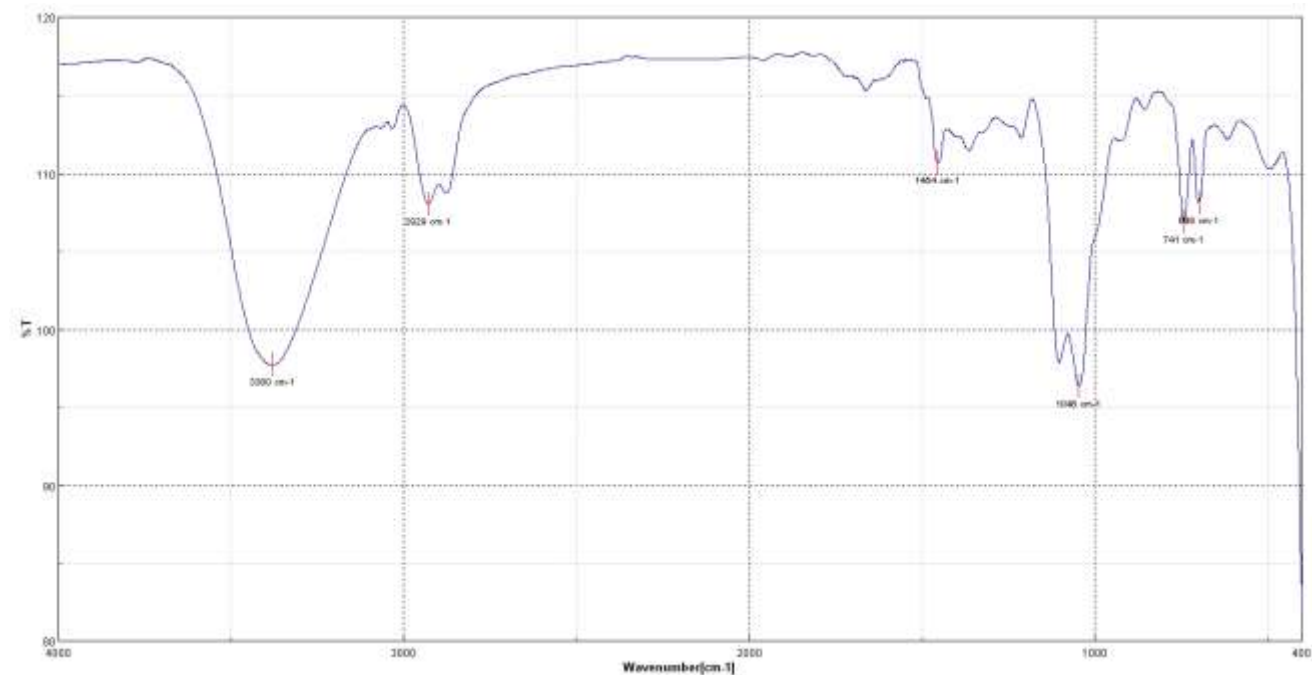
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Time 16.48
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PULPROG hsqc1gp
TD 1024
SOLVENT CDCl3
NS 4
DS 16
SWH 8992.805 Hz
FIDRES 8.789237 Hz
AQ 0.0569844 sec
RG 10321.1
DW 55.000 usec
DE 6.00 usec
TE 299.6 K
CHST2 145.0000000
d0 0.000000000 sec
d1 1.500000000 sec
d4 0.00172414 sec
d11 0.030000000 sec
d13 0.000000000 sec
d16 0.000200000 sec
DELTA 0.001250000 sec
DELTA1 0.00071614 sec
IN0 0.000000000 sec
MCREST 0.00000000 sec
MCNRM 0.300000001 sec
ST1CNT 128

===== CHANNEL f1 =====
NUC1 1H
P1 7.00 usec
P2 14.00 usec
P2B 1000.00 usec
PL1 1.00 dB
SF01 300.1364010 MHz

===== CHANNEL f2 =====
CPDPRG2 gprg
NUC2 13C
P3 12.50 usec
P4 25.00 usec
PCPD2 75.00 usec
PL2 2.00 dB
PL12 17.95 dB
SF02 75.4733773 MHz

===== GRADIENT CHANNEL =====
GPNAM1 SINE-100
GPNAM2 SINE-100
GPX1 0.00 %
GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 80.00 %
GPZ2 20.10 %
P16 1000.00 usec

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TD 112
SF01 75.47338 MHz
FIDRES 160.588815 Hz
SN 288.304 ppm
PRMODE Echo-AntiEcho



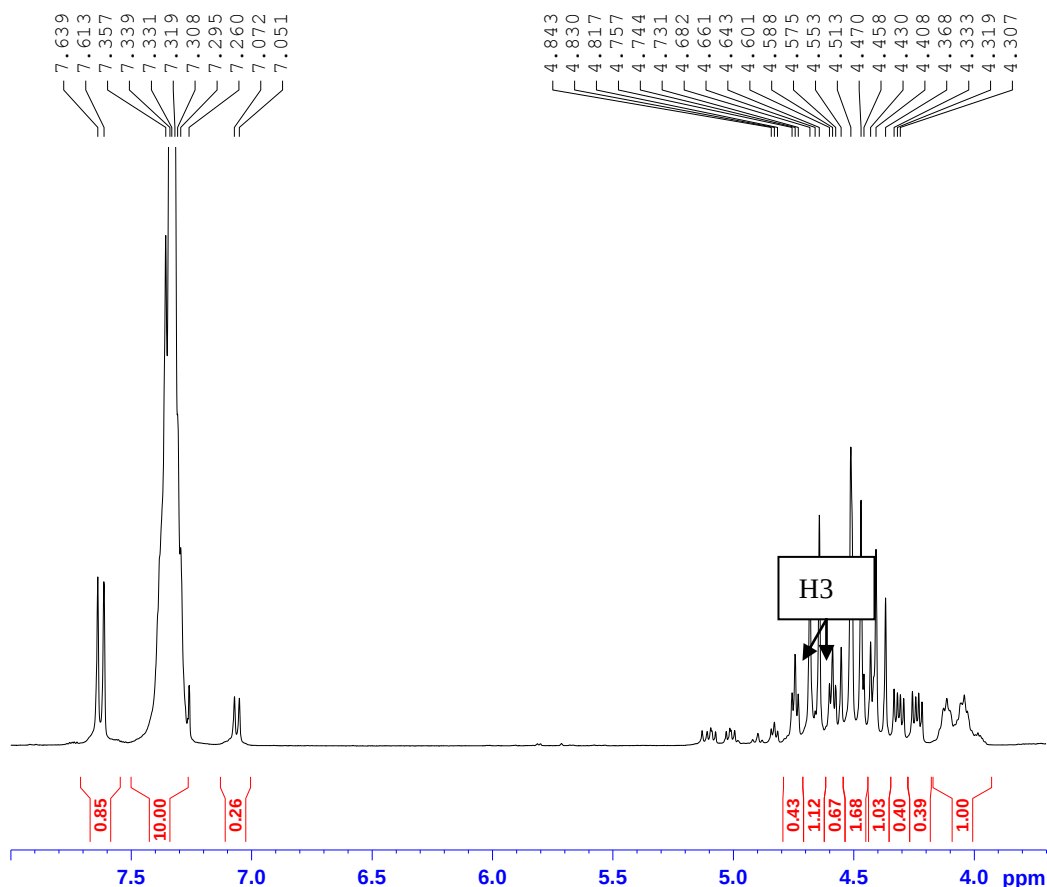
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EXNO 10
PROCNO 1

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PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8992.806 Hz
FIDRES 0.137219 Hz
AQ 3.6438515 sec
RG 50.8
DW 55.600 usec
DE 6.00 usec
TE 298.9 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.00 usec
PL1 -1.00 dB
SF01 300.1324010 MHz

F2 - Processing parameters
SI 32768
SF 300.1300058 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 22.00 cm
CY 20.00 cm
F1P 8.000 ppm
F1 2401.04 Hz
F2P -0.500 ppm
F2 -150.06 Hz
PPMCM 0.38636 ppm/cm
HZCM 115.95932 Hz/cm



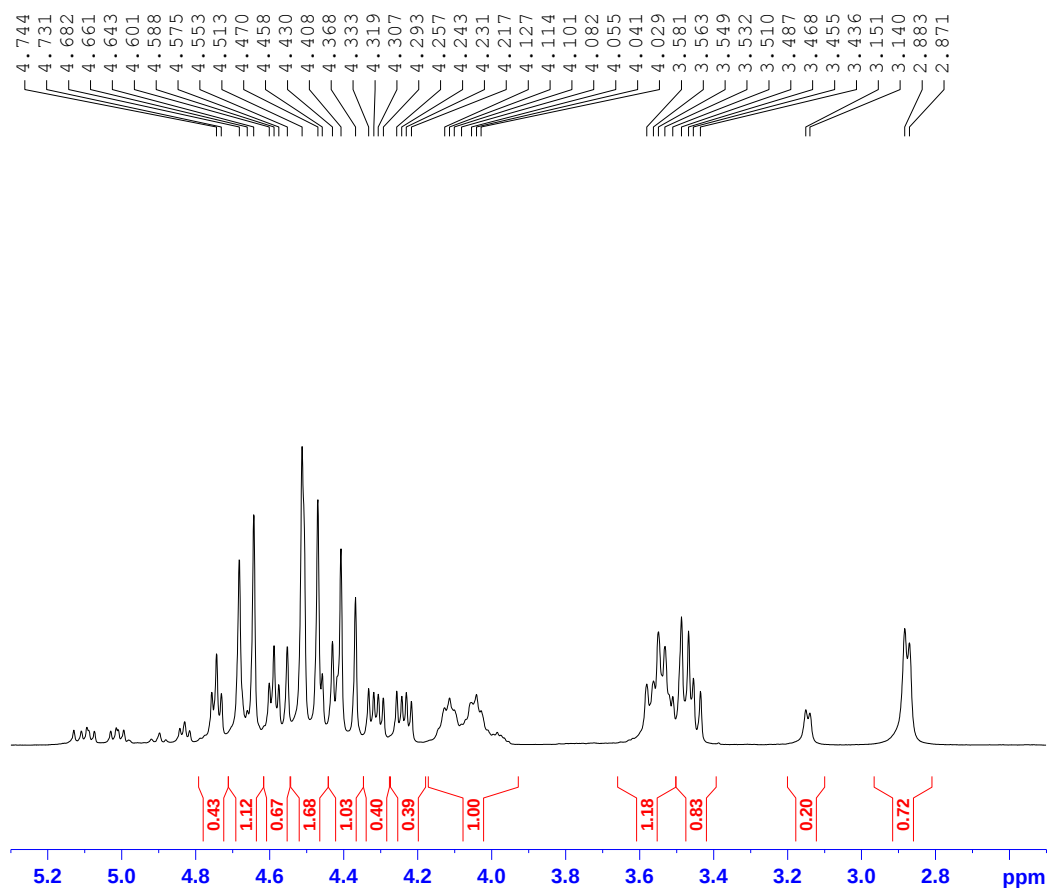
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EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8992.806 Hz
FIDRES 0.137219 Hz
AQ 3.6438515 sec
RG 50.8
DW 55.600 usec
DE 6.00 usec
TE 298.9 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.00 usec
PL1 -1.00 dB
SF01 300.1324010 MHz

F2 - Processing parameters
SI 32768
SF 300.1300058 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 22.00 cm
CY 20.00 cm
F1P 8.000 ppm
F1 2401.04 Hz
F2P -0.500 ppm
F2 -150.06 Hz
PPMCM 0.38636 ppm/cm
HZCM 115.95932 Hz/cm



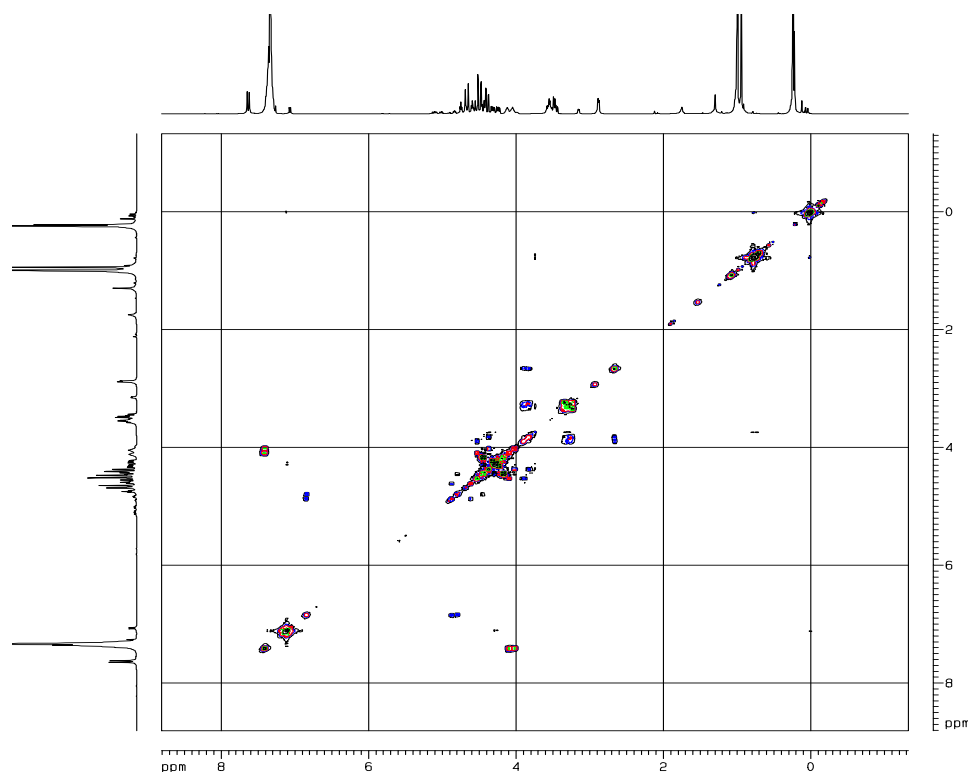
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NAME lyx4-62
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
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Time 9.23
INSTRUM spect
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PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8992.806 Hz
FIDRES 0.137219 Hz
AQ 3.6438515 sec
RG 50.8
DW 55.600 usec
DE 6.00 usec
TE 298.9 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.00 usec
PL1 -1.00 dB
SF01 300.1324010 MHz

F2 - Processing parameters
SI 32768
SF 300.1300058 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 22.00 cm
CY 20.00 cm
F1P 8.000 ppm
F1 2401.04 Hz
F2P -0.500 ppm
F2 -150.06 Hz
PPMCM 0.38636 ppm/cm
HZCM 115.95932 Hz/cm



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Current Data Parameters
NAME      jyx4-62
EXPNO     11
PROCNO    1

F2 - Acquisition Parameters
Date_     20090729
Time      9.24
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         1
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219598 sec
RG         574.7
DW         27.800 usec
DE         6.00 usec
TE         299.6 K
D1         2.00000000 sec
d11        0.03000000 sec
DELTA      1.89999999 sec
MCREST     0.00000000 sec
MCWRR      0.01500000 sec

----- CHANNEL f1 -----
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SFO1       75.4752953 Mhz

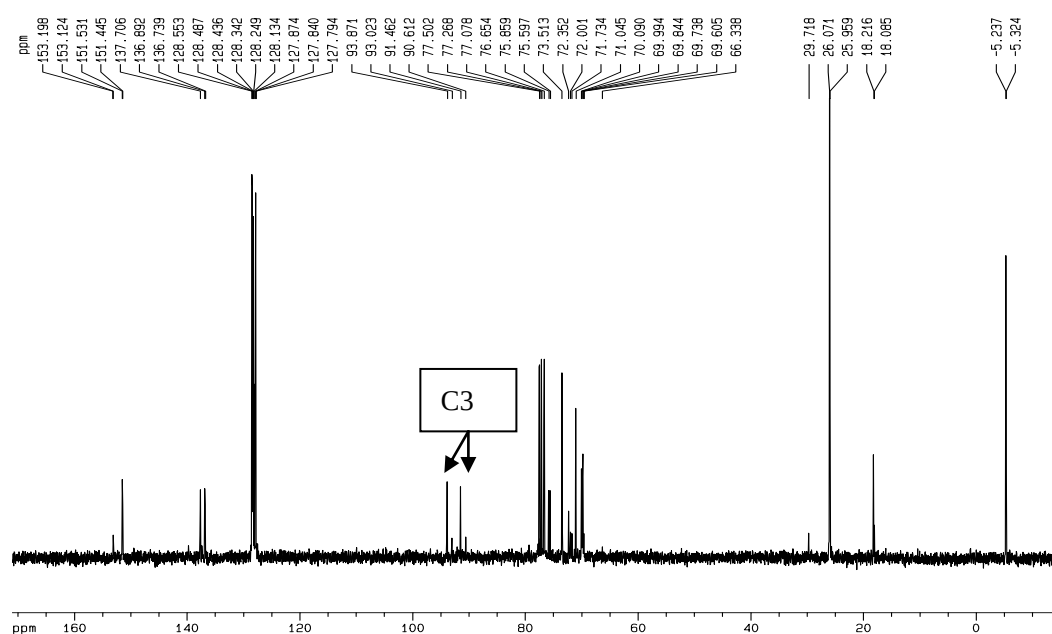
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CPDPRG2   waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -1.00 dB
PL12       20.16 dB
PL13       16.36 dB
SFO2       300.1312005 Mhz

F2 - Processing parameters
SI         32768
SF         75.4677490 Mhz
WDW         EM
SSB         0
LB         1.00 Hz
GB         0
PC         1.40

F1 - Acquisition parameters
ND         1
TD         128
SFO1       300.1312 Mhz
FIDRES     23.760645 Hz
SW         10.132 ppm
FHM000     0

F2 - Processing parameters
SI         1024
SF         300.1300700 Mhz
WDW         SINE
SSB         0
LB         0.00 Hz
GB         0
PC         1.40

F1 - Processing parameters
SI         1024
SF         300.1300700 Mhz
WDW         SINE
SSB         0
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PC         1.40
  
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Current Data Parameters
NAME      jyx4-62
EXPNO     12
PROCNO    1

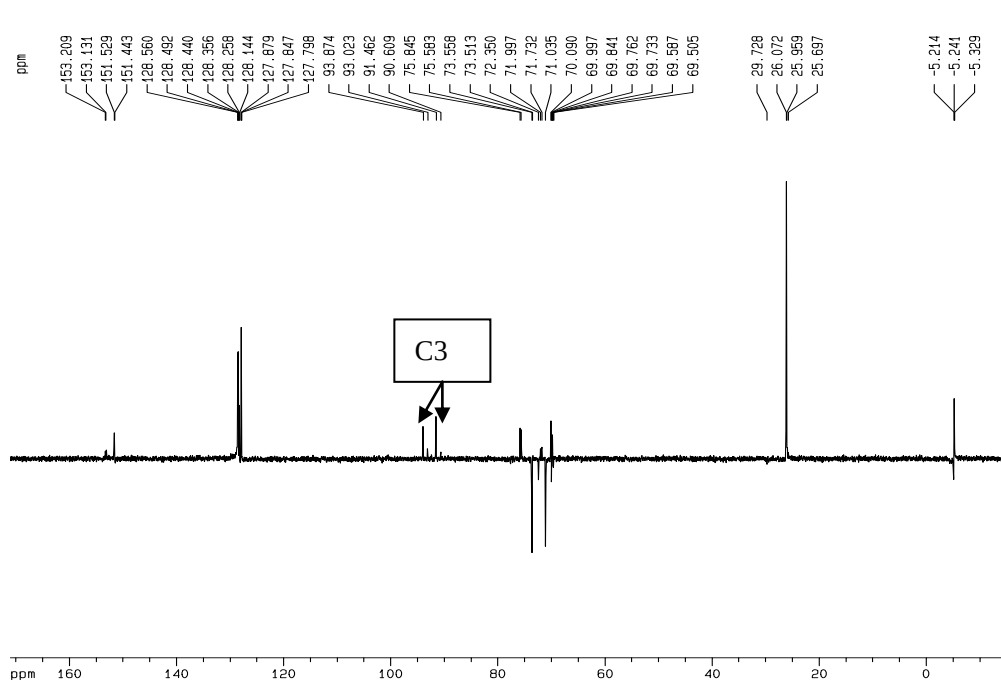
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Time      9.30
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PULPROG   zgpg30
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SOLVENT   CDCl3
NS         1
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219598 sec
RG         574.7
DW         27.800 usec
DE         6.00 usec
TE         299.6 K
D1         2.00000000 sec
d11        0.03000000 sec
DELTA      1.89999999 sec
MCREST     0.00000000 sec
MCWRR      0.01500000 sec

----- CHANNEL f1 -----
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SFO1       75.4752953 Mhz

----- CHANNEL f2 -----
CPDPRG2   waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -1.00 dB
PL12       20.16 dB
PL13       16.36 dB
SFO2       300.1312005 Mhz

F2 - Processing parameters
SI         32768
SF         75.4677490 Mhz
WDW         EM
SSB         0
LB         1.00 Hz
GB         0
PC         1.40

1D NMR plot parameters
CX         22.00 cm
CY         16.00 cm
F1P        171.016 ppm
F1         12906.19 Hz
F2P        -14.890 ppm
F2         -1124.38 Hz
PPMCM      8.45067 ppm/cm
HZCM       637.75305 Hz/cm
  
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Current Data Parameters
NAME      1yx4-62
EXPNO    13
PROCNO    1

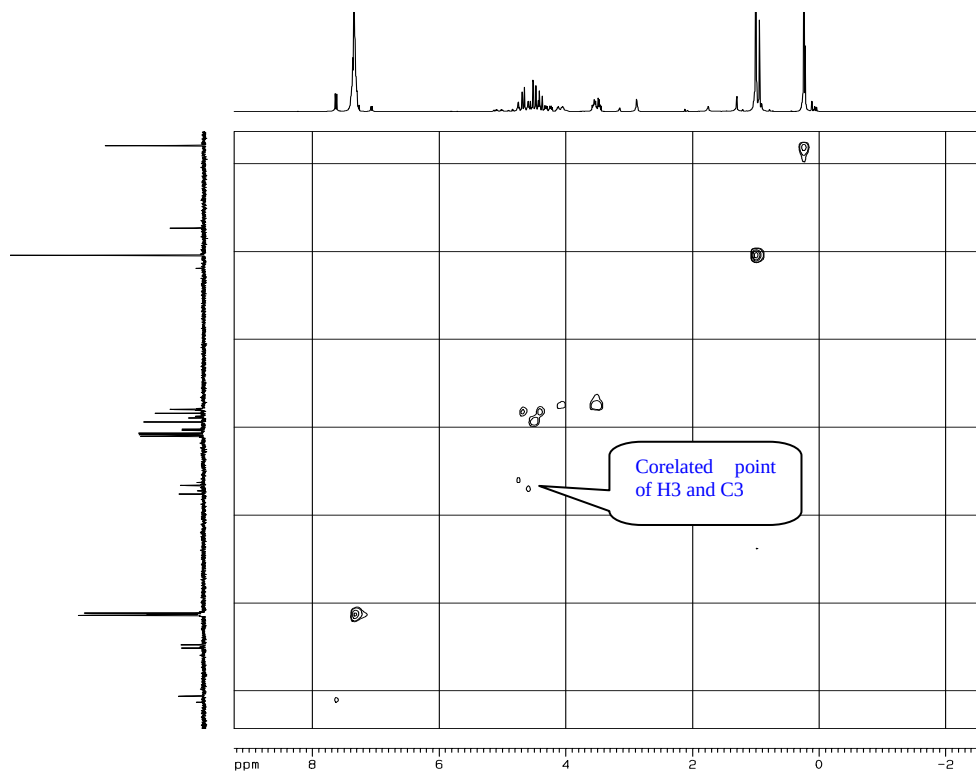
F2 - Acquisition Parameters
Date_     20090729
Time      9.37
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT    CDCl3
NS         74
DS         0
SWH        17985.611 Hz
FIDRES     0.274429 Hz
AQ         1.8219508 sec
RG         574.7
WDW         27.800 usec
DE         6.00 usec
TE         300.5 K
CNST2     145.0000000
D1         2.000000000 sec
d2         0.00344828 sec
d12        0.00000000 sec
DELTA      0.00001592 sec
MCREST     0.00000000 sec
MCNMR      0.01500000 sec

===== CHANNEL f1 =====
NUC1       13C
P1         12.50 usec
P2         25.00 usec
PL1        2.00 dB
SF01       75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
P3         7.00 usec
P4         14.00 usec
PCPD2      80.00 usec
PL2        -1.00 dB
PL12       20.16 dB
SF02       300.1312000 MHz

F2 - Processing parameters
SI         32768
SF         75.4677490 MHz
WDW         EM
SSB         0
LB         1.00 Hz
GB         0
PC         1.40

1D NMR plot parameters
CX         20.00 cm
CY         7.00 cm
F1P        171.016 ppm
F1         12906.19 Hz
F2P        -14.899 ppm
F2         -1124.38 Hz
PPMCH      9.29574 ppm/cm
HZCM       701.52832 Hz/cm
    
```



```

Current Data Parameters
NAME      1yx4-62-hsqc
EXPNO     1
PROCNO    1

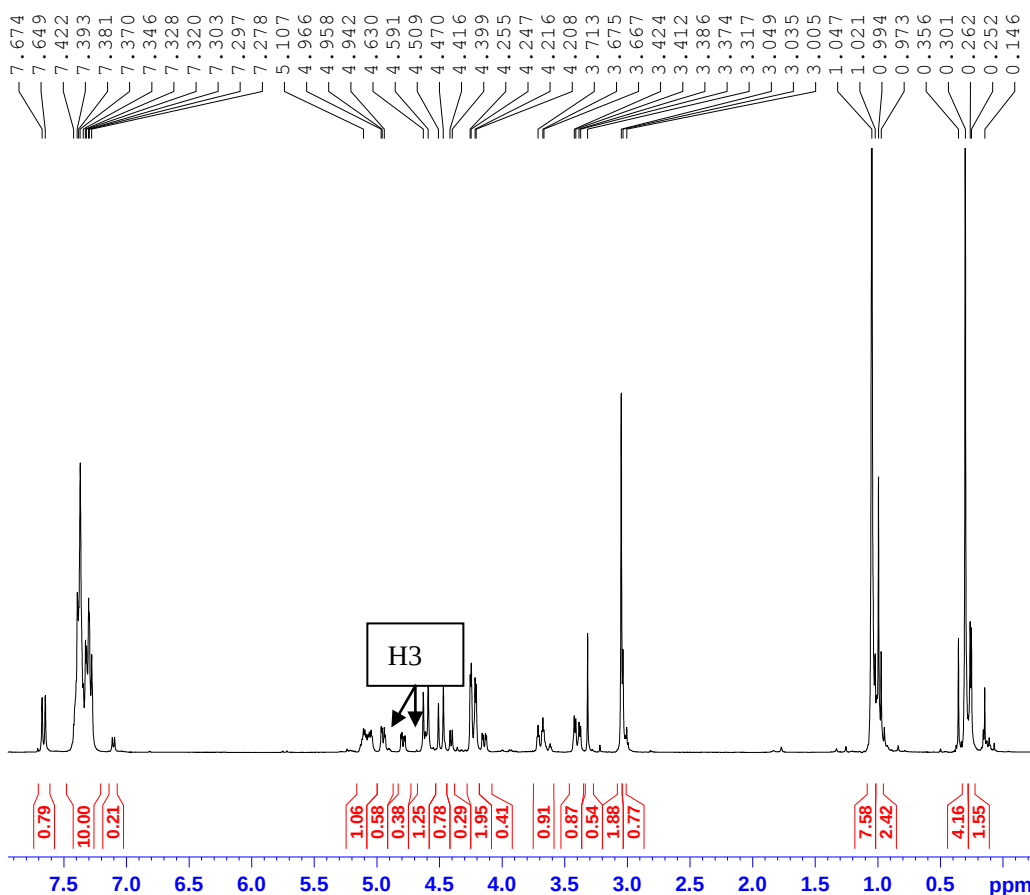
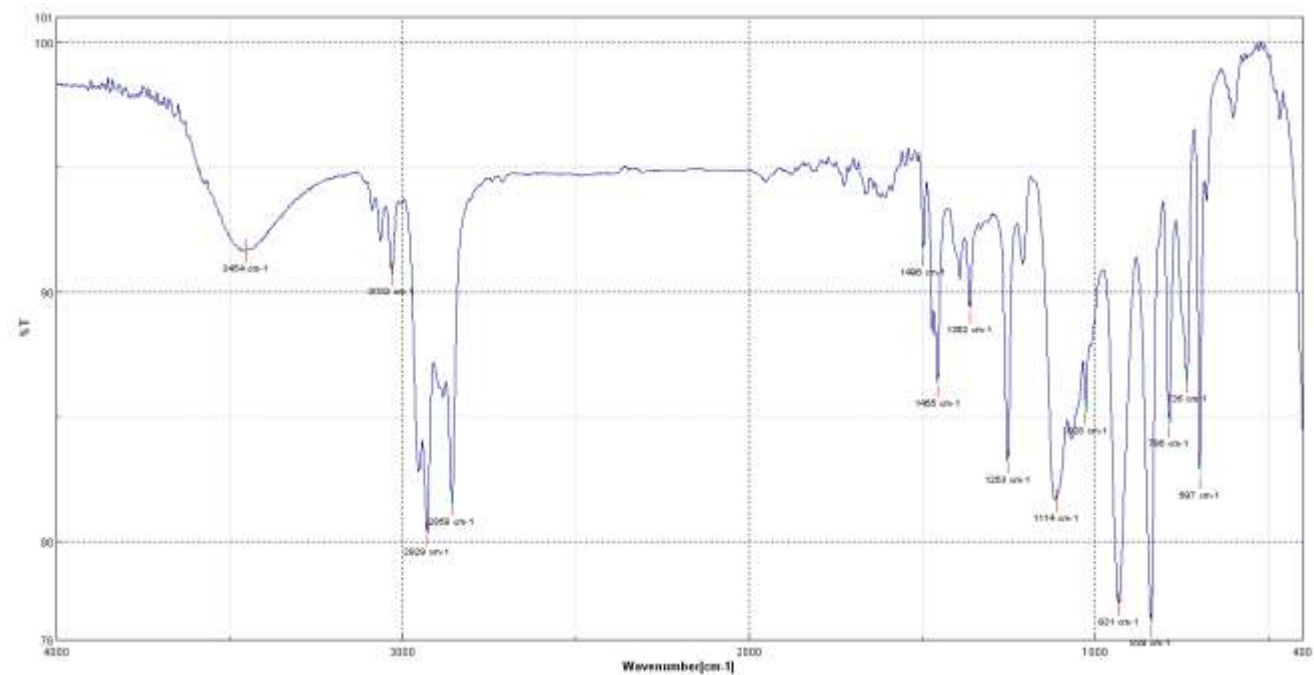
F2 - Acquisition Parameters
Date_     20090729
Time      9.43
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   hsqc1gp
TD         1024
SOLVENT    CDCl3
NS         16
DS         4
SWH        8992.806 Hz
FIDRES     0.780337 Hz
AQ         0.0599844 sec
RG         9195.2
WDW         25.600 usec
DE         6.00 usec
TE         299.5 K
CNST2     145.0000000
d0         0.000000000 sec
d1         1.500000000 sec
d4         0.00172414 sec
d11        0.03000000 sec
d13        0.00000000 sec
d16        0.00020000 sec
DELTA      0.00162000 sec
DELTA1     0.00071614 sec
TNO        0.00000798 sec
MCREST     0.00000000 sec
MCNMR      0.30000001 sec
ST1CNT     128

===== CHANNEL f1 =====
NUC1       1H
P1         7.00 usec
P2         14.00 usec
P2B        1000.00 usec
PL1        1.00 dB
SF01       300.1324010 MHz

===== CHANNEL f2 =====
CPDPRG2    smpo
NUC2       13C
P3         12.50 usec
P4         25.00 usec
PCPD2      75.00 usec
PL2        2.00 dB
PL12       17.96 dB
SF02       75.4733773 MHz

===== GRADIENT CHANNEL =====
GPMNM1     SINE:100
GPMNM2     SINE:100
GPX1       0.00 %
GPX2       0.00 %
GPY1       0.00 %
GPY2       0.00 %
GPZ1       80.00 %
GPZ2       20.10 %
P16        1000.00 usec

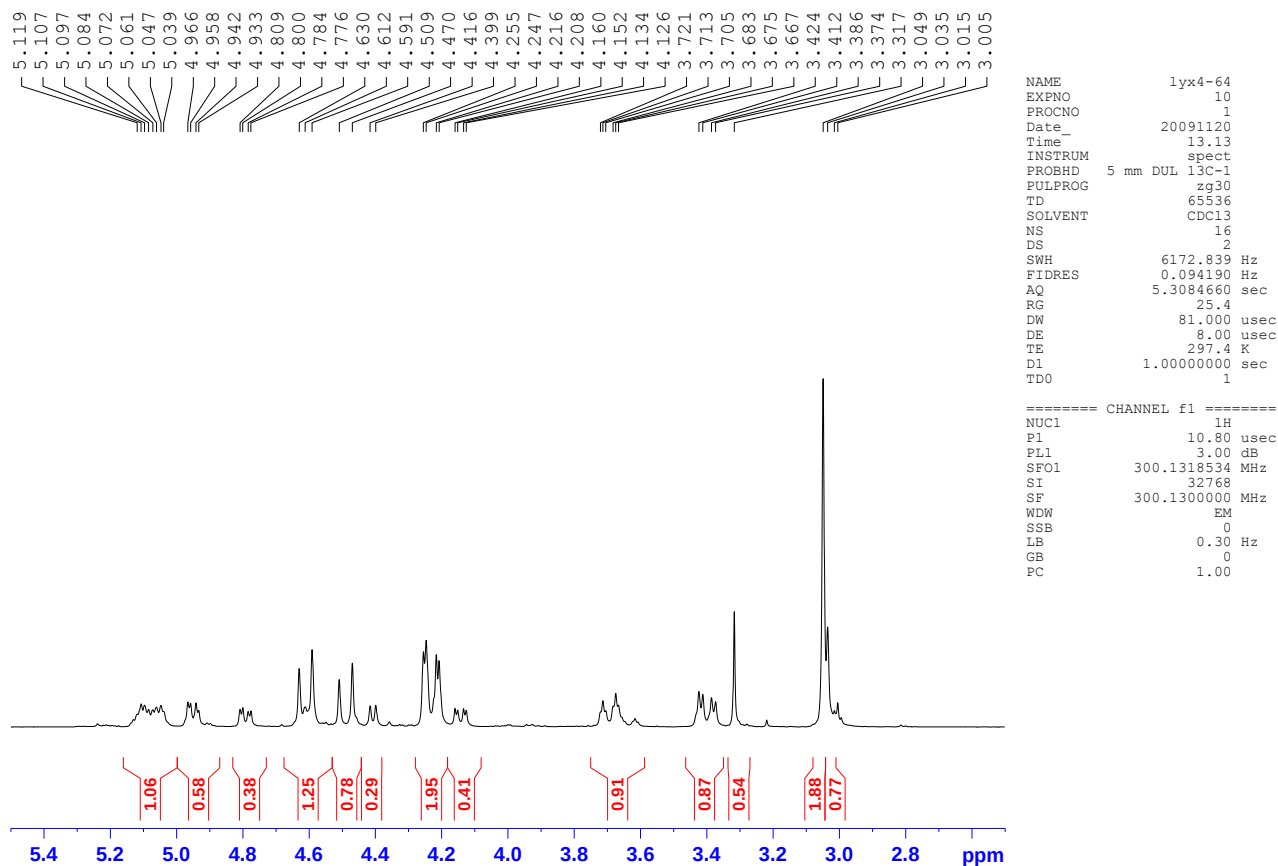
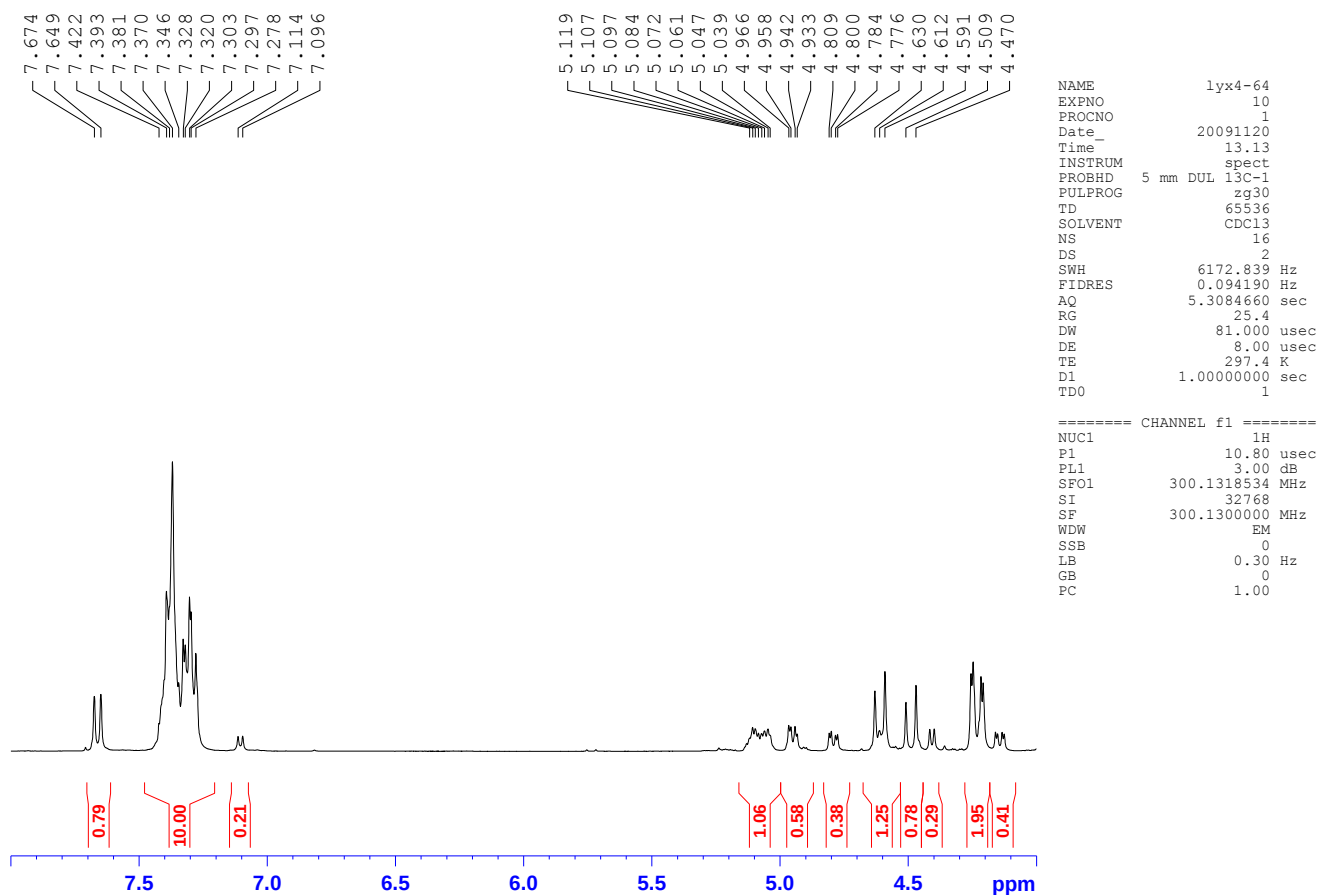
F1 - Acquisition parameters
TD         2
SF01       75.47338 MHz
FIDRES     169.005615 Hz
SN         288.304 ppm
PRMODE     Echo-AntiEcho
    
```

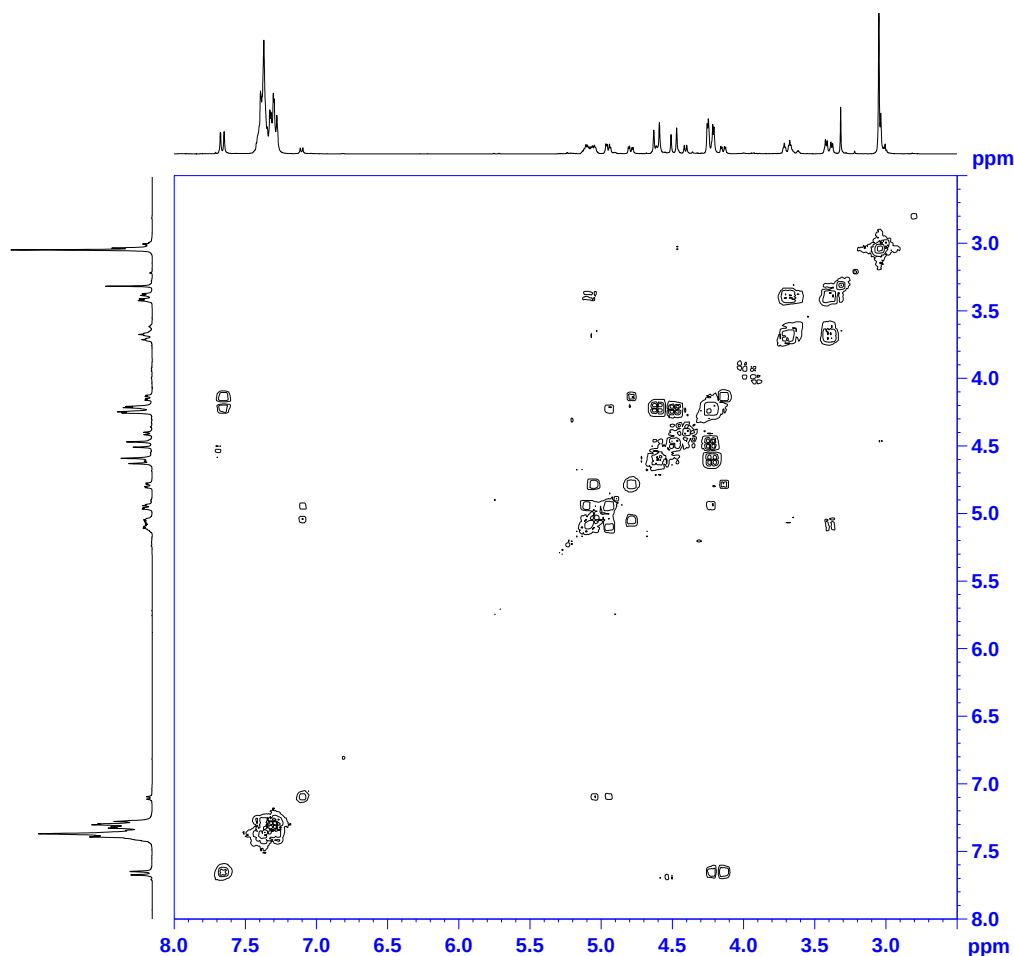


```

NAME          lyx4-64
EXPNO         10
PROCNO        1
Date_         20091120
Time          13.13
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zg30
TD            65536
SOLVENT       CDC13
NS            16
DS            2
SWH           6172.839 Hz
FIDRES        0.094190 Hz
AQ            5.3084660 sec
RG            25.4
DW            81.000 usec
DE            8.00 usec
TE            297.4 K
D1            1.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1           1H
P1            10.80 usec
PL1           3.00 dB
SF01          300.1318534 MHz
SI            32768
SF            300.1300000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```





Current Data Parameters
NAME lyx4-64
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091120
Time 13.15
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG cosygpgf
TD 2048
SOLVENT CDCl3
NS 1
DS 8
SWH 2853.881 Hz
FIDRES 1.393497 Hz
AQ 0.3588596 sec
RG 14.3
DW 175.200 usec
DE 8.00 usec
TE 297.4 K
DO 0.00000300 sec
D1 1.38408196 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00035040 sec

===== CHANNEL f1 =====
NUC1 1H
P1 10.80 usec
PL1 10.80 usec
PL1 3.00 dB
SFO1 300.1311373 MHz

===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
GPZ1 10.00 %
PL6 1000.00 usec

F1 - Acquisition parameters
ND0 1
TD 128
SFO1 300.1311 MHz
FIDRES 22.295948 Hz
SW 9.509 ppm
FMODE QF

F2 - Processing parameters
SI 1024
SF 300.1300000 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 QF
SF 300.1300000 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

152.76
152.66
152.69
150.91
137.06
136.39
136.18
128.87
128.87
128.57
128.54
128.33
128.09
128.04
128.00

93.32
92.23
81.09
80.64
80.63
80.35
80.24
79.97
77.62
77.40
77.20
76.77
73.58
73.47
73.42
73.19
71.86
69.63
69.39
68.47
68.37

38.92
38.40
38.35
26.11
26.00
25.86
25.74
18.27
18.12

-4.56
-5.18
-5.35
-5.29

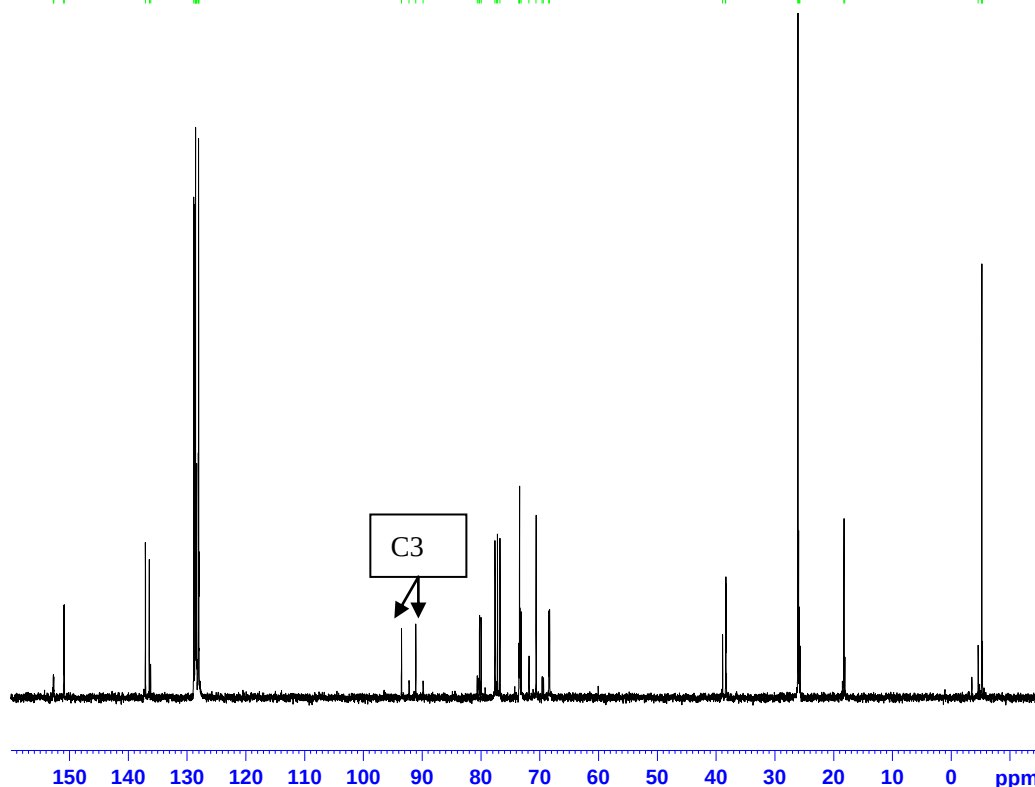
Current Data Parameters
NAME lyx4-64
EXPNO 12
PROCNO 1

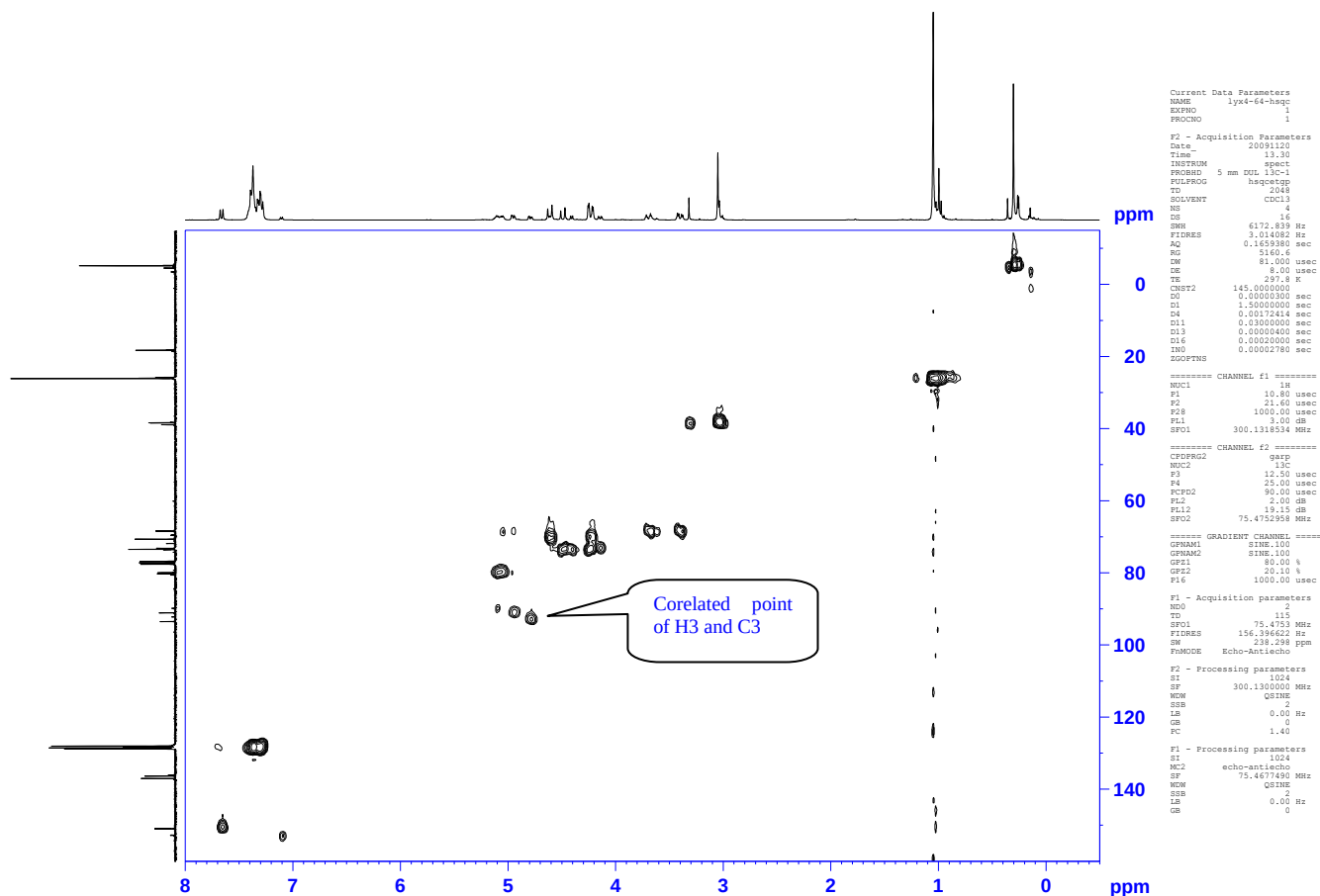
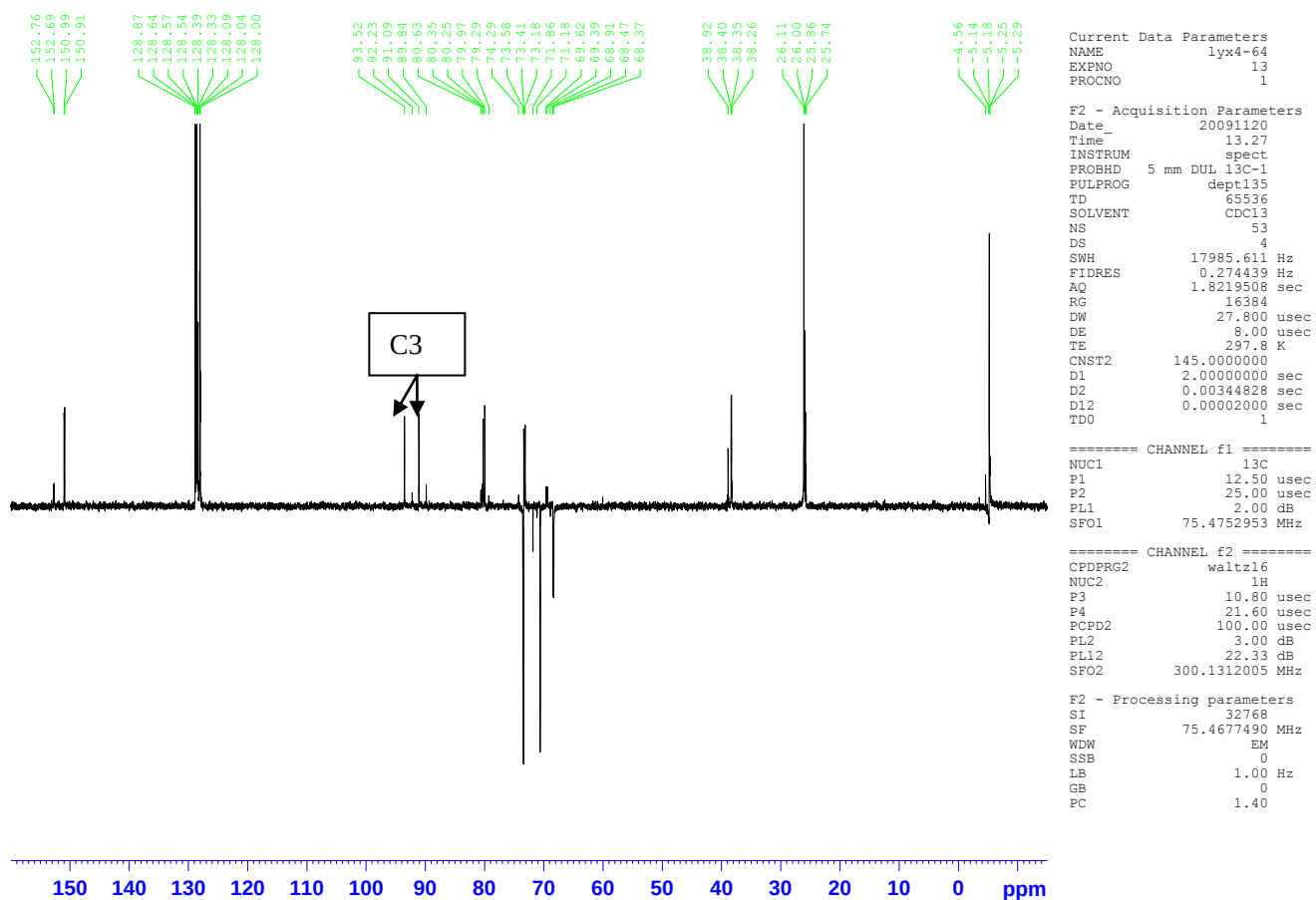
F2 - Acquisition Parameters
Date_ 20091120
Time 13.20
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 69
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 13004
DW 27.800 usec
DE 8.00 usec
TE 297.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

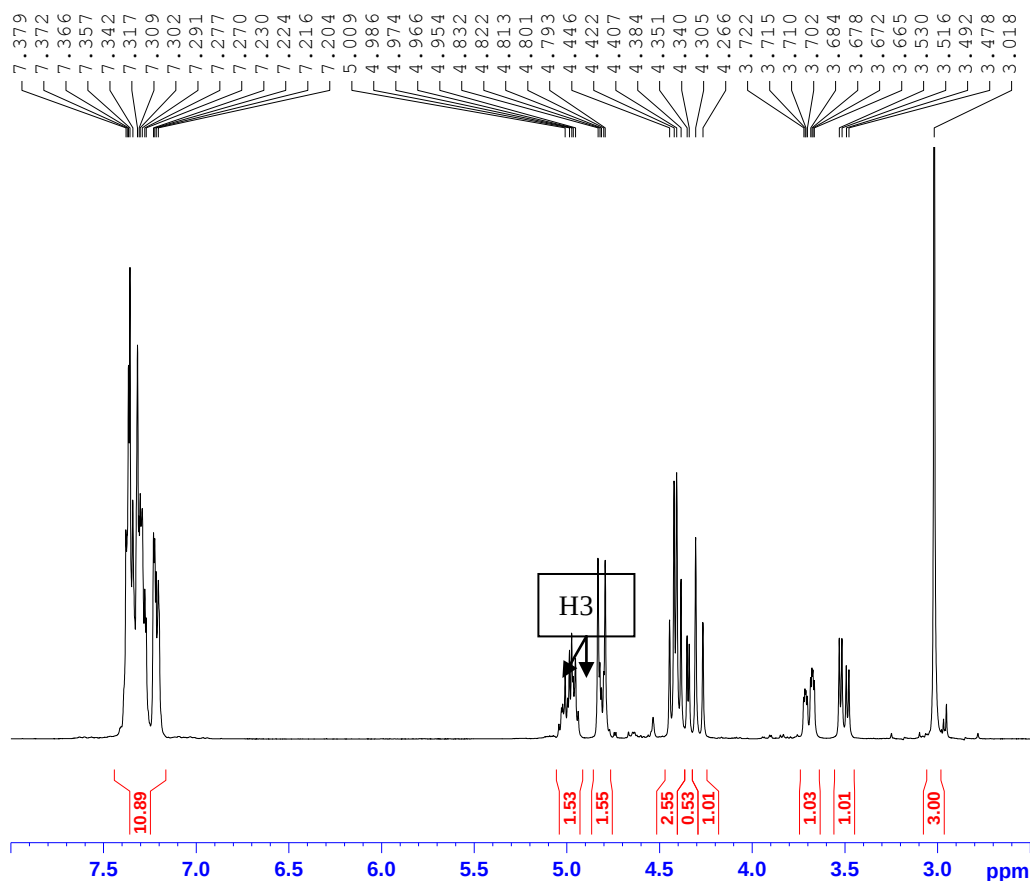
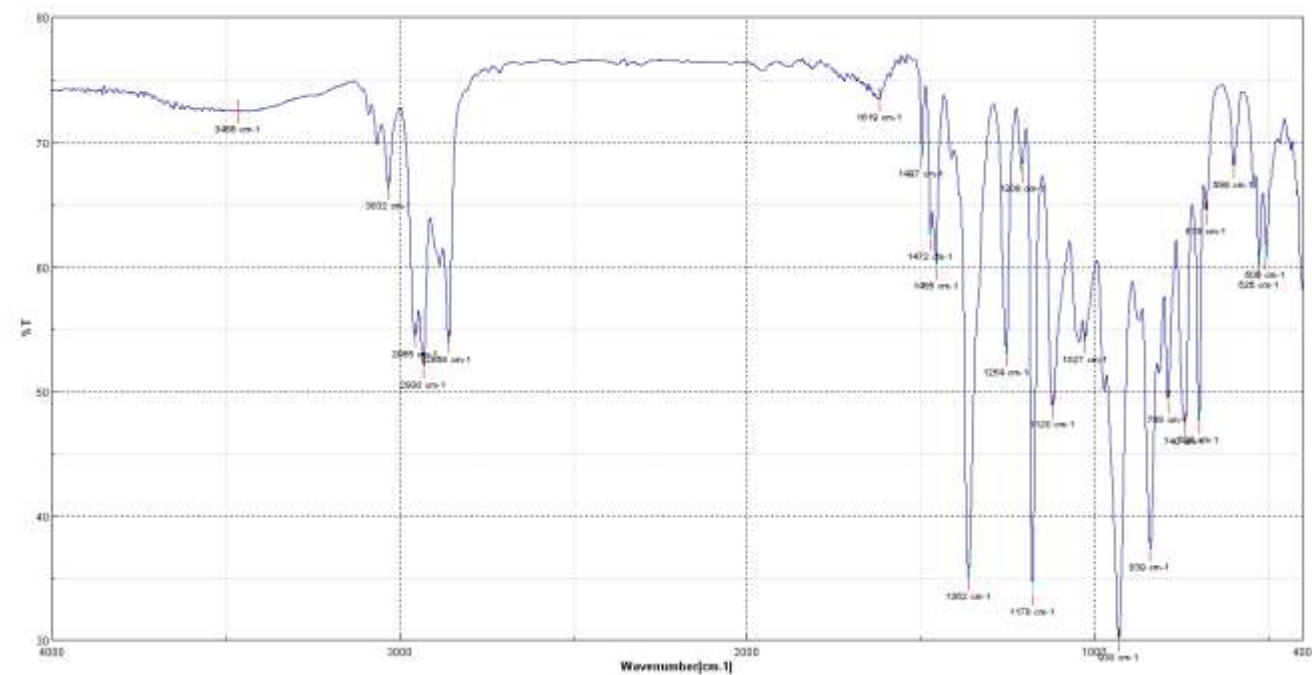
===== CHANNEL f1 =====
NUC1 13C
P1 12.50 usec
PL1 2.00 dB
SFO1 75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 3.00 dB
PL12 22.33 dB
PL13 23.00 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4677490 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





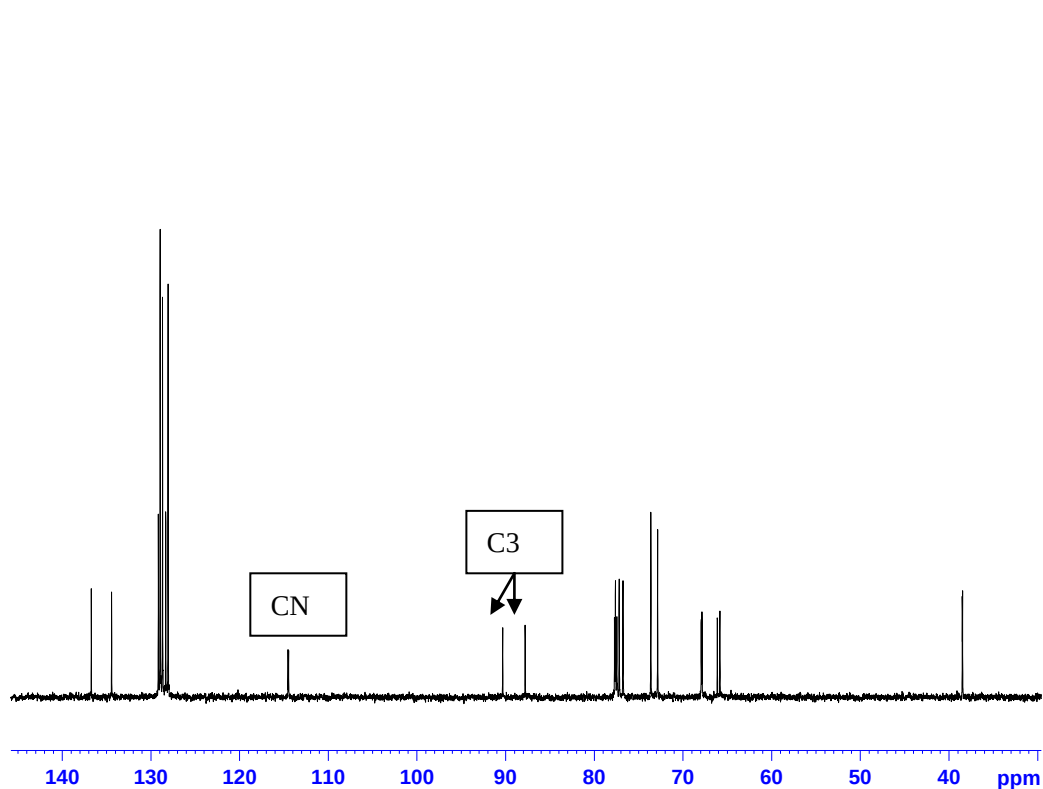
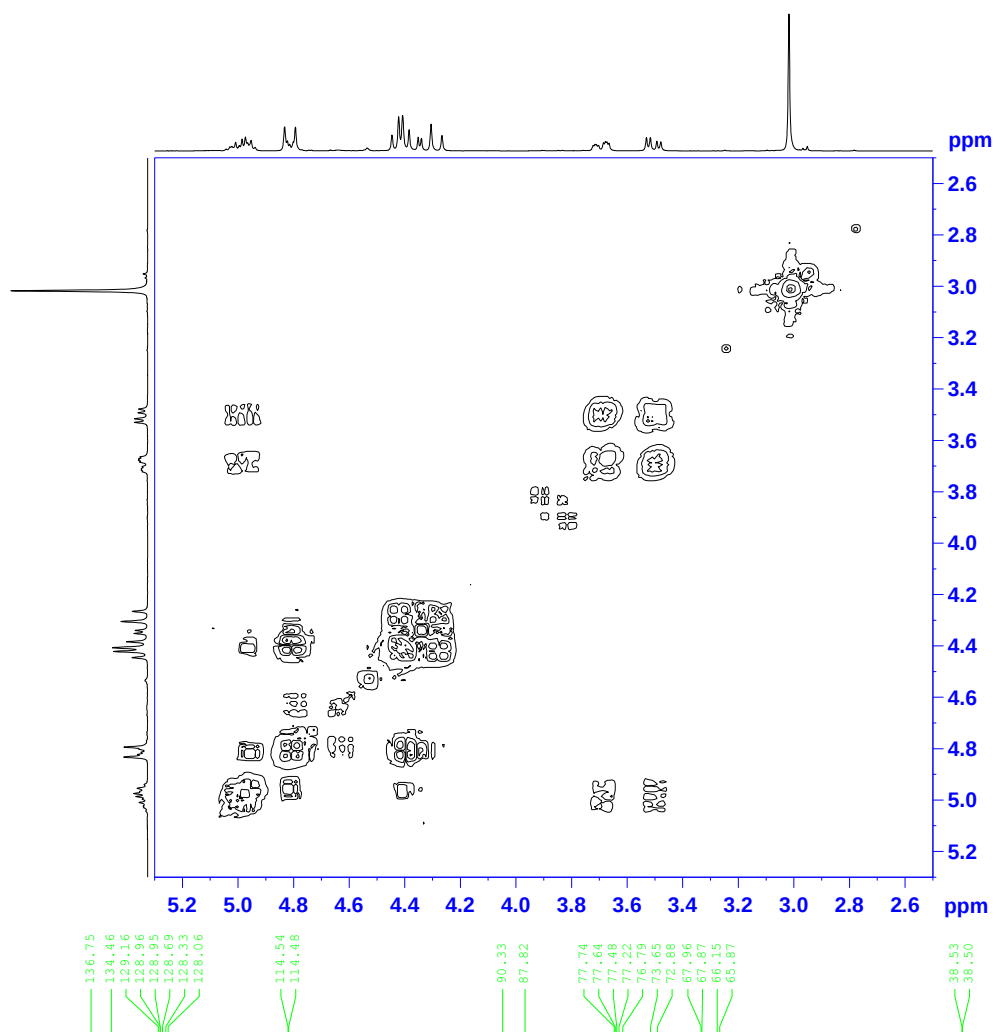


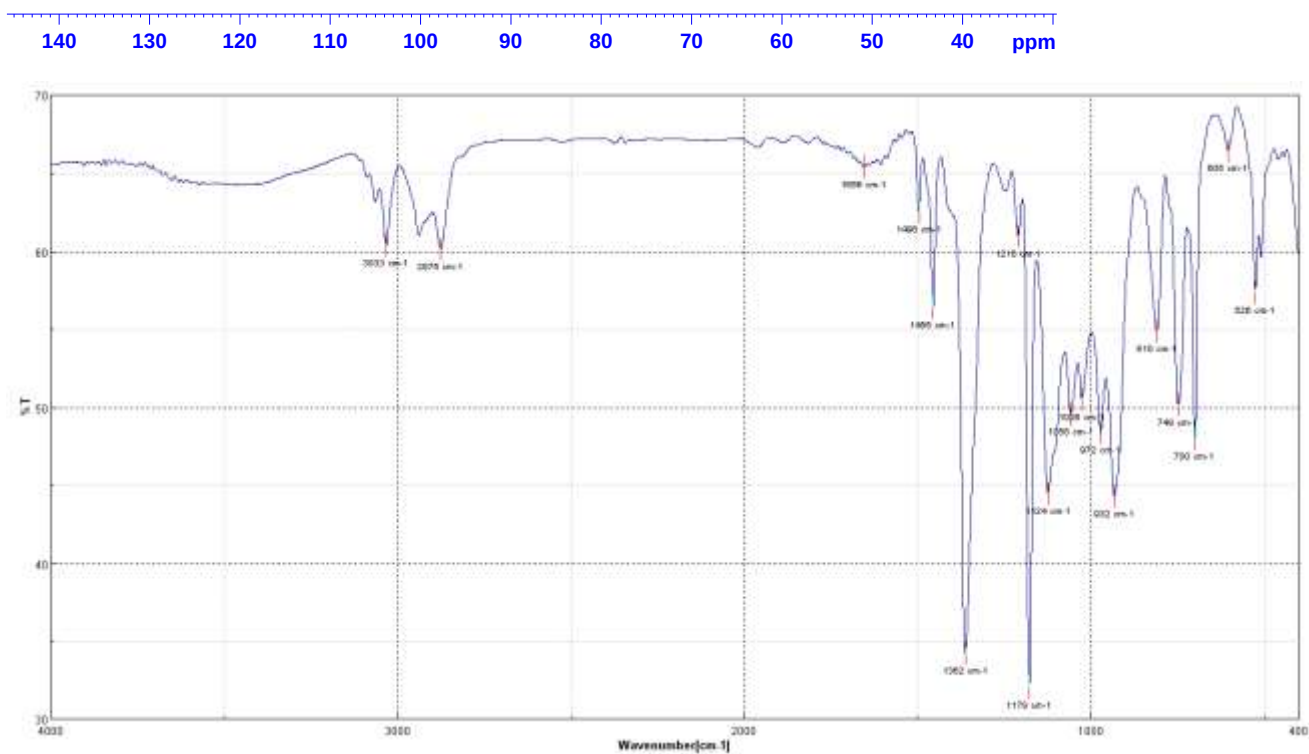
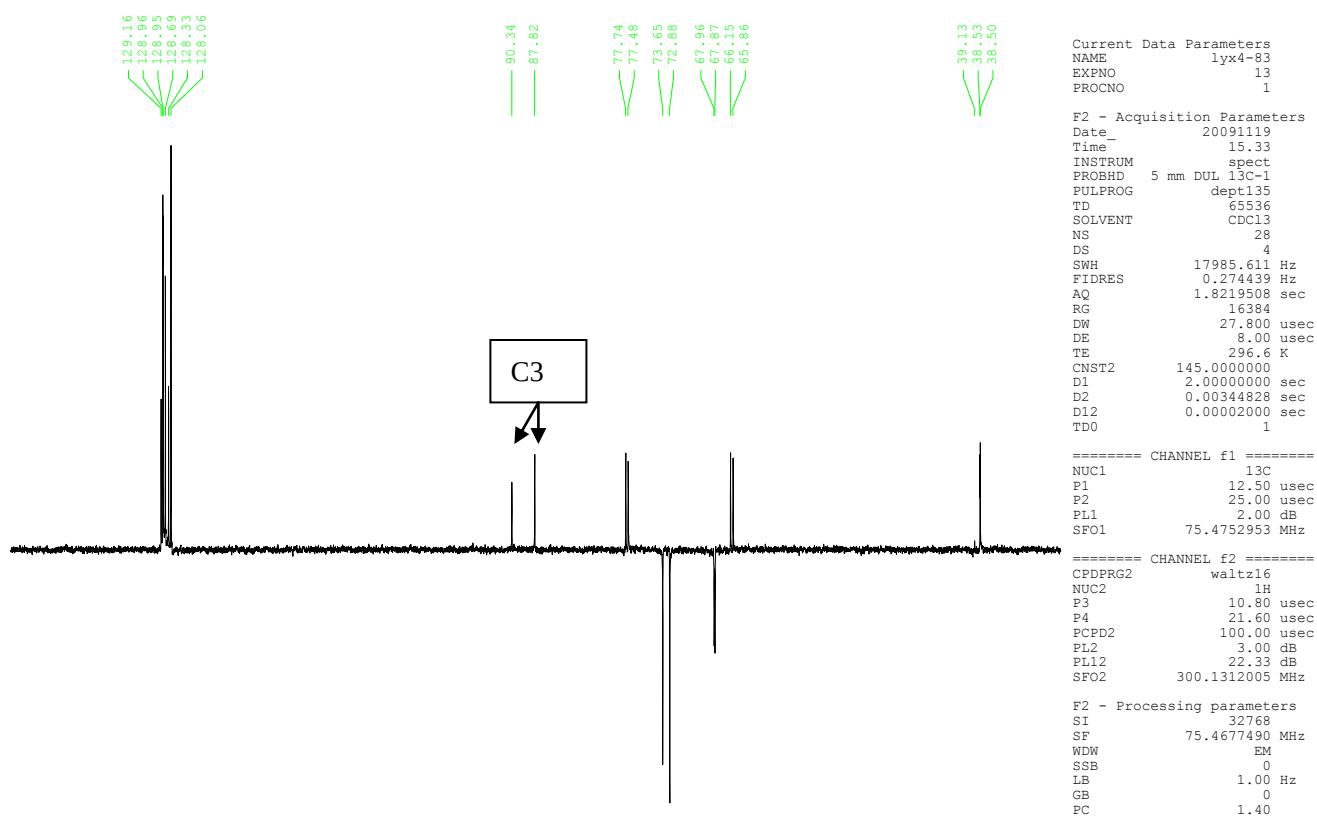
Current Data Parameters
NAME lyx4-83
EXPNO 10
PROCNO 1

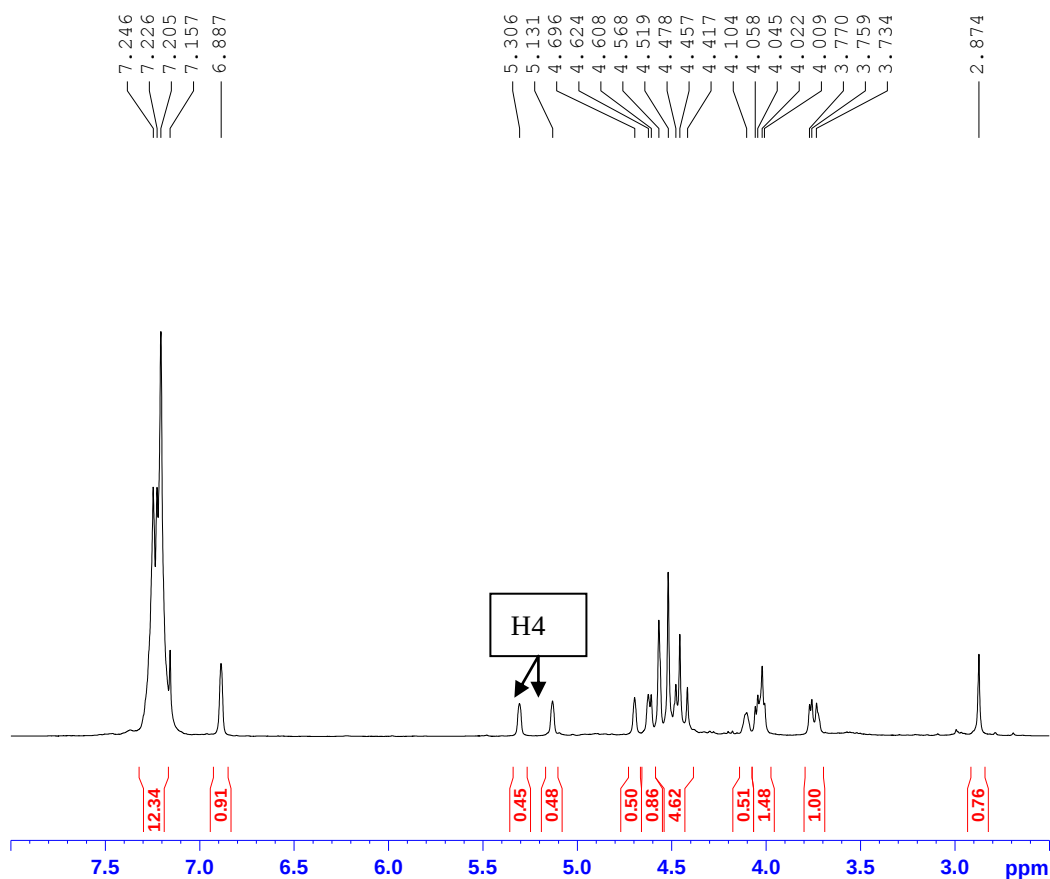
F2 - Acquisition Parameters
Date_ 20091119
Time_ 15.23
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 11
DS 2
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 40.3
DM 81.000 usec
DE 8.00 usec
TE 296.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.80 usec
PL1 3.00 dB
SFO1 300.1318534 MHz

F2 - Processing parameters
SI 32768
SF 300.1300188 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





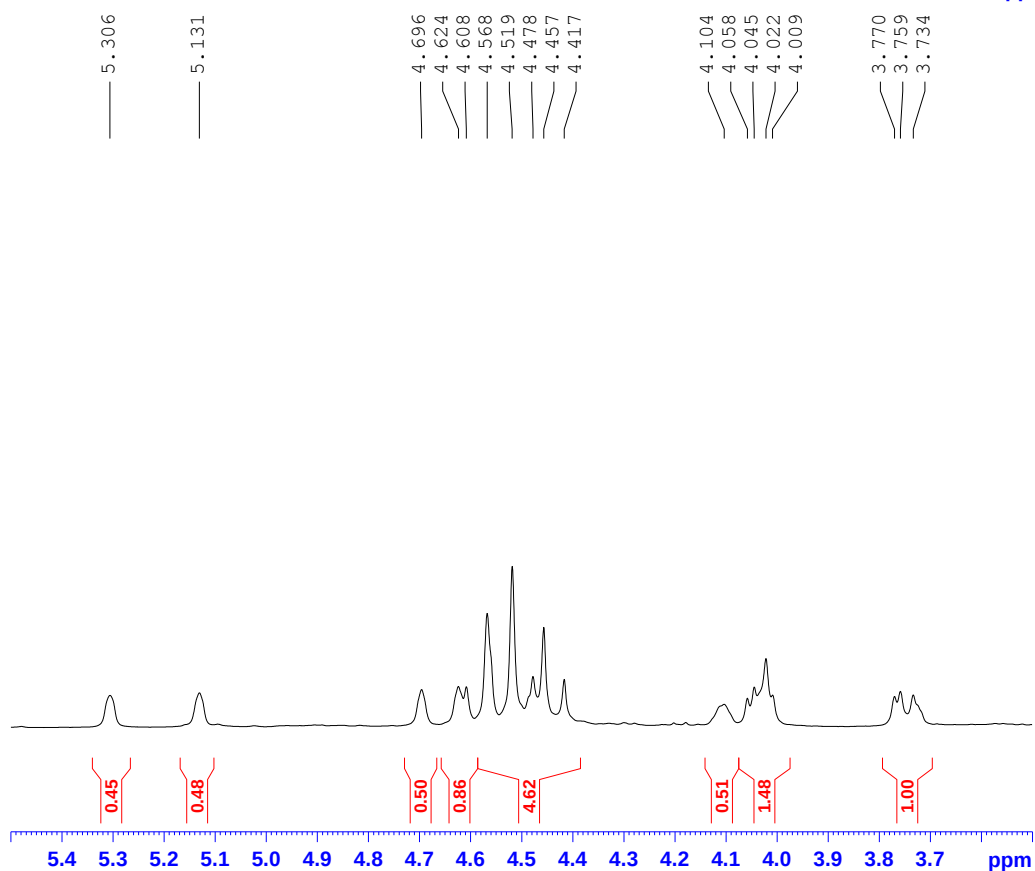


Current Data Parameters
NAME lyx4-66
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091126
Time_ 22.51
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 7
DS 2
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 57
DW 81.000 usec
DE 8.00 usec
TE 297.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.80 usec
PL1 3.00 dB
SFO1 300.1318534 MHz

F2 - Processing parameters
SI 32768
SF 300.1300368 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

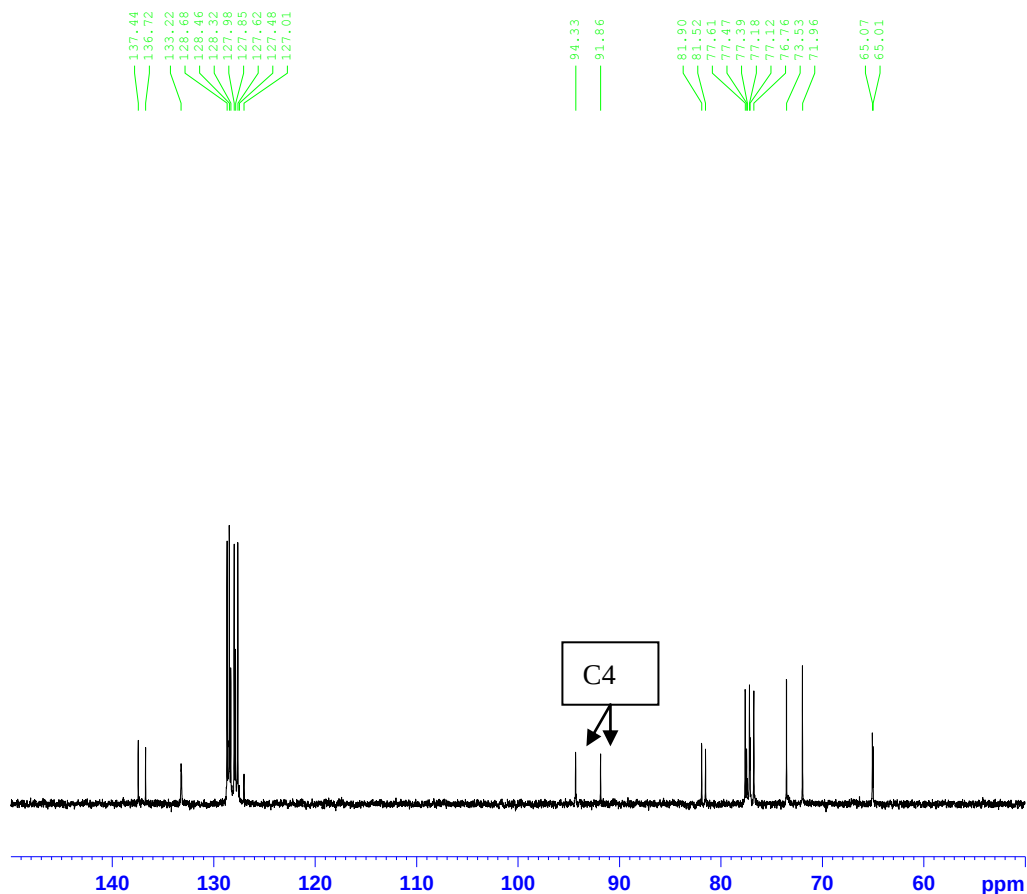
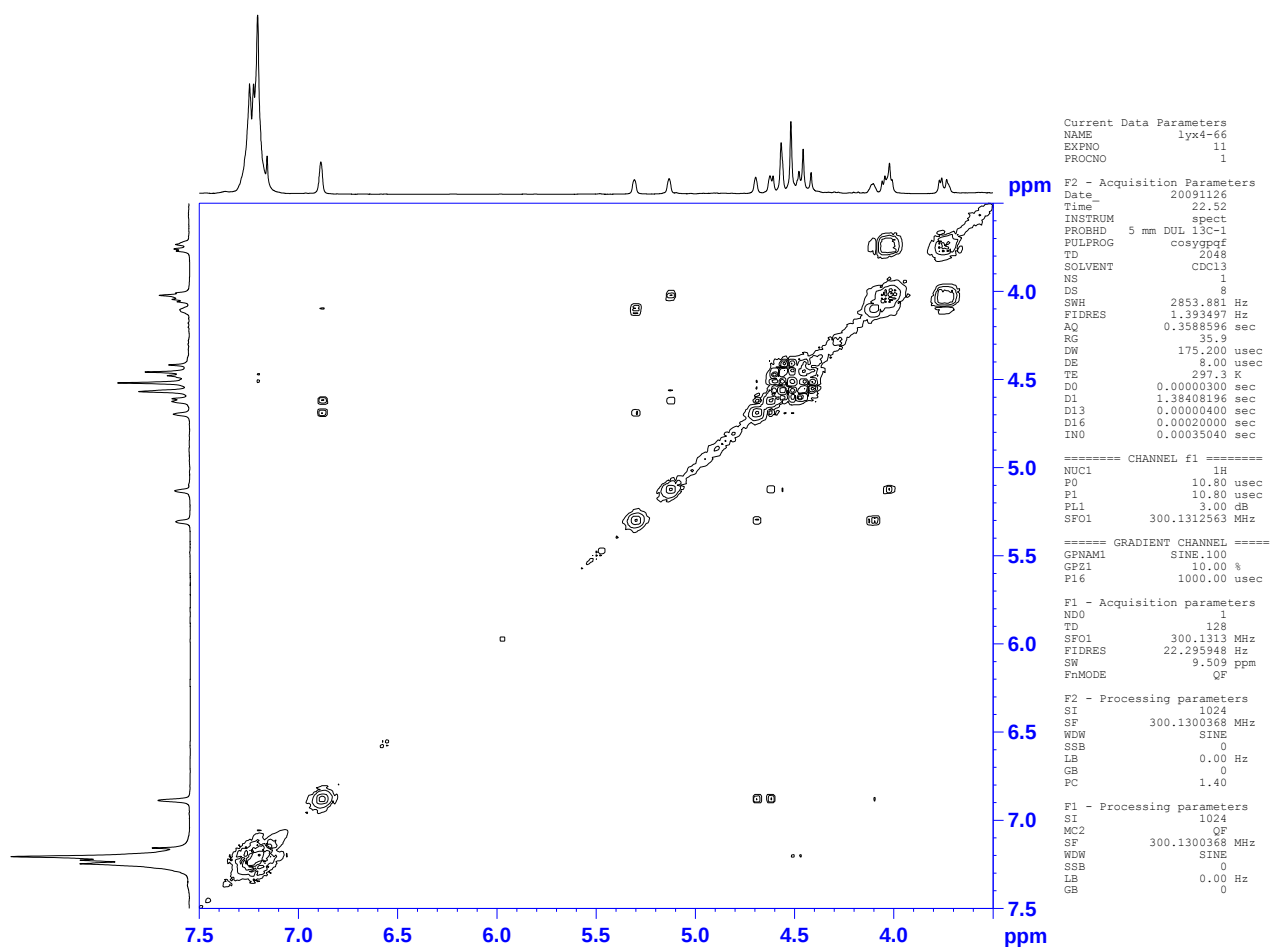


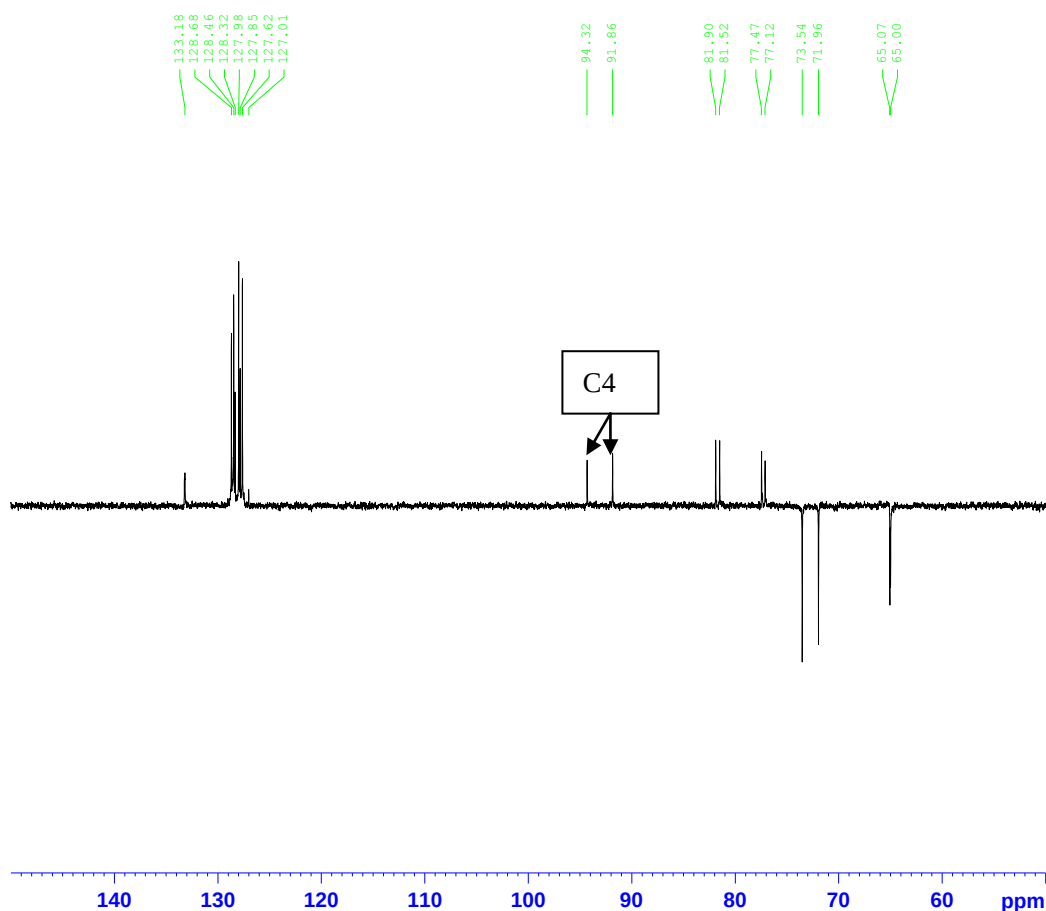
Current Data Parameters
NAME lyx4-66
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091126
Time_ 22.51
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 7
DS 2
SWH 6172.839 Hz
FIDRES 0.094190 Hz
AQ 5.3084660 sec
RG 57
DW 81.000 usec
DE 8.00 usec
TE 297.3 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 10.80 usec
PL1 3.00 dB
SFO1 300.1318534 MHz

F2 - Processing parameters
SI 32768
SF 300.1300368 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





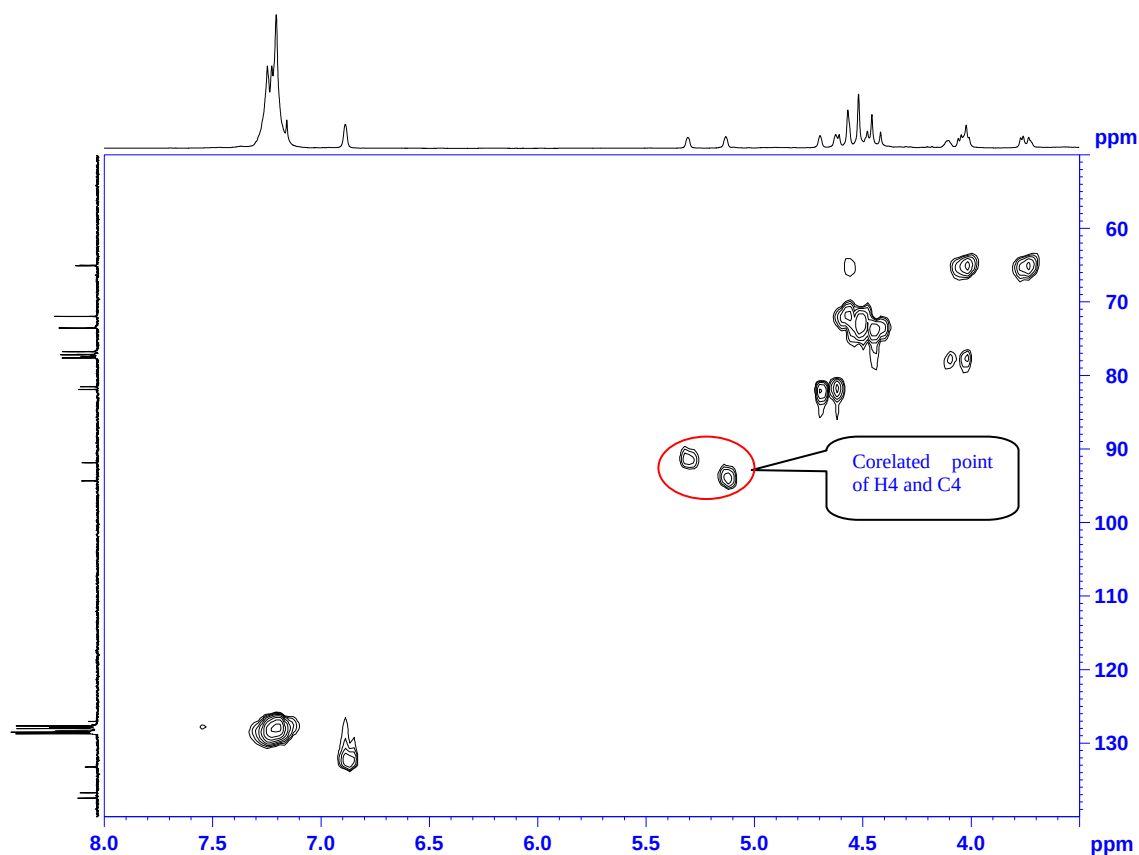
Current Data Parameters
NAME lyx4-66
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091126
Time 23.02
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG dept135
TD 65536
SOLVENT CDCl3
NS 48
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 16384
DW 27.800 usec
DE 8.00 usec
TE 297.6 K
CNST2 145.0000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 12.50 usec
P2 25.00 usec
PL1 2.00 dB
SFO1 75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 10.80 usec
P4 21.60 usec
PCPD2 100.00 usec
PL2 3.00 dB
PL12 22.33 dB
SFO2 300.1312005 MHz

F2 - Processing parameters
SI 32768
SF 75.4677490 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters
NAME lyx4-66-hsc
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20091127
Time 13.03
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG hsqcetpp
TD 2048
SOLVENT CDCl3
NS 4
DS 16
SWH 6172.839 Hz
FIDRES 3.014082 Hz
AQ 0.1659380 sec
RG 16384
DW 81.000 usec
DE 8.00 usec
TE 296.7 K
CNST2 145.0000000
D0 0.00000300 sec
D1 1.50000000 sec
D11 0.00172414 sec
D13 0.03000000 sec
D16 0.00000400 sec
D18 0.00002000 sec
INO 0.00002780 sec
ZGPGTNS

===== CHANNEL f1 =====
NUC1 1H
P1 10.80 usec
P2 21.60 usec
P3 10.00 usec
PL1 3.00 dB
SFO1 300.1318534 MHz

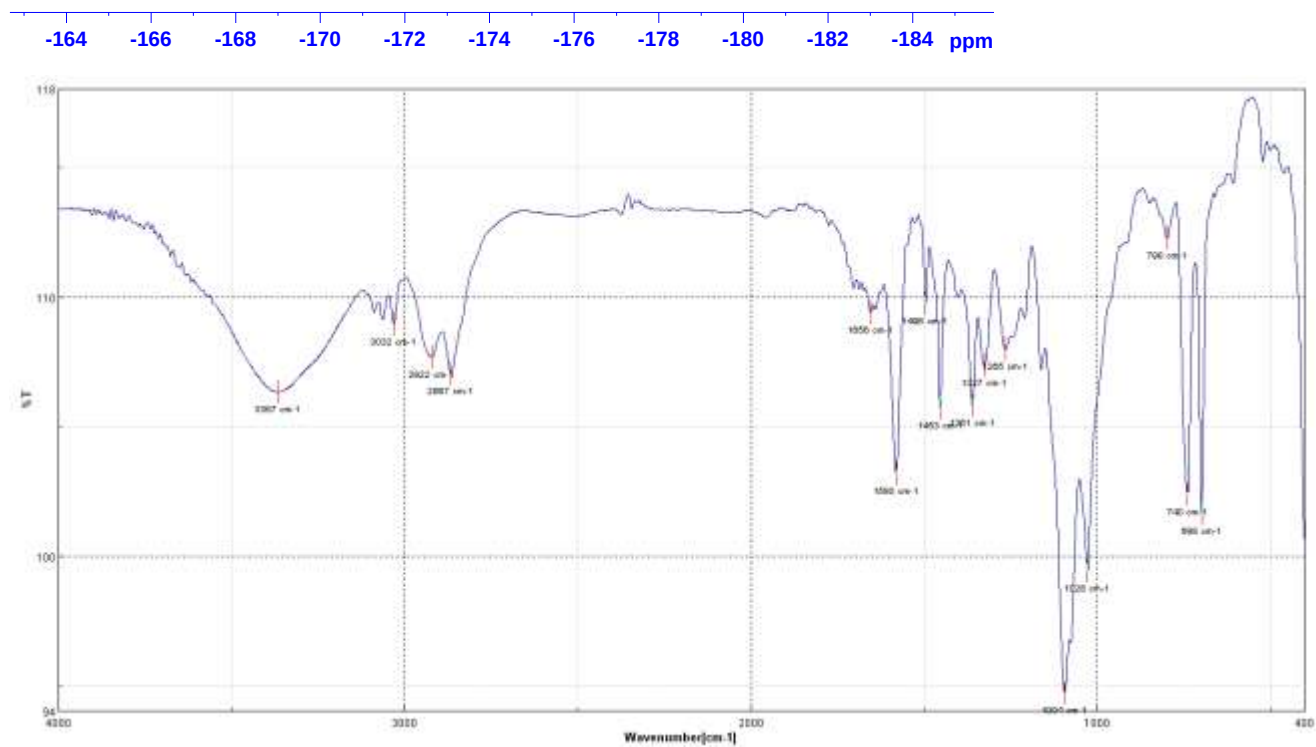
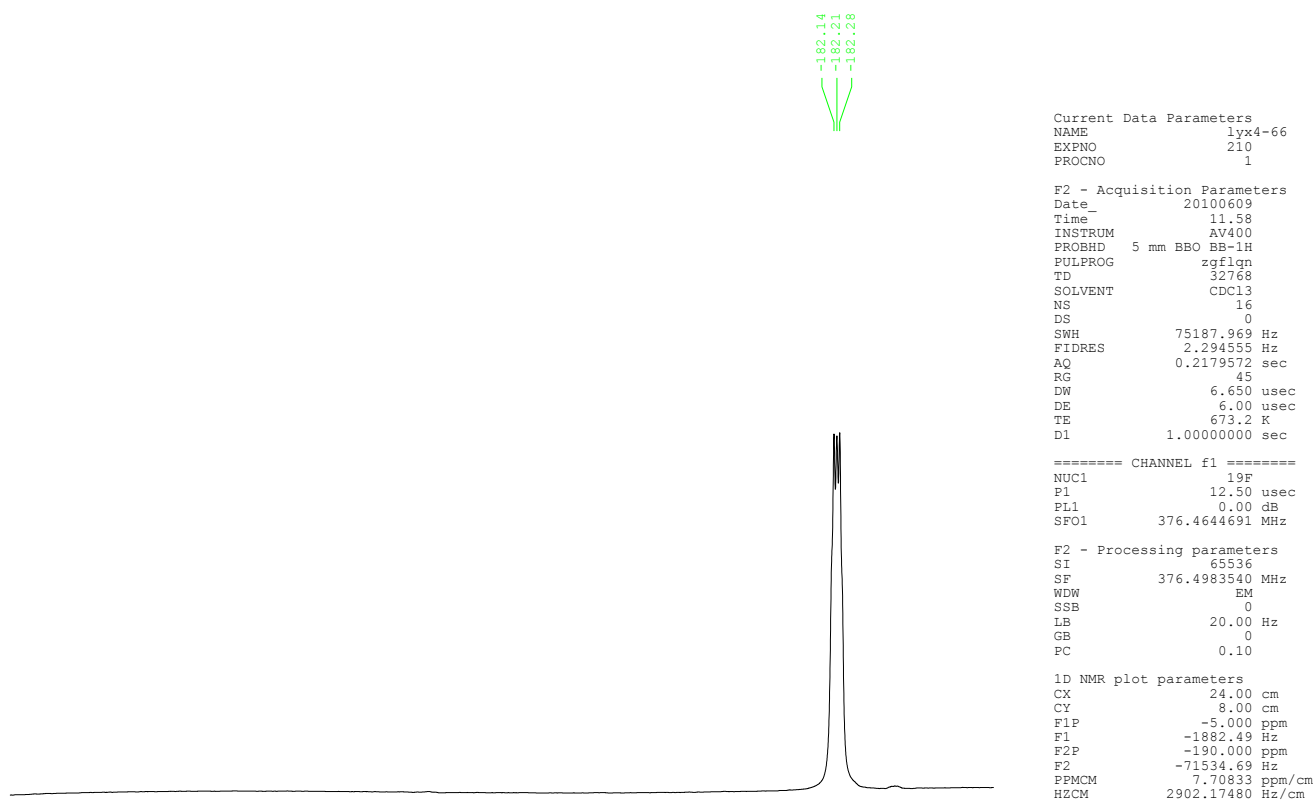
===== CHANNEL f2 =====
CPDPRG2 gsp
NUC2 13C
P4 12.50 usec
P5 25.00 usec
PCPD2 90.00 usec
PL2 2.00 dB
PL12 19.15 dB
SFO2 75.4752958 MHz

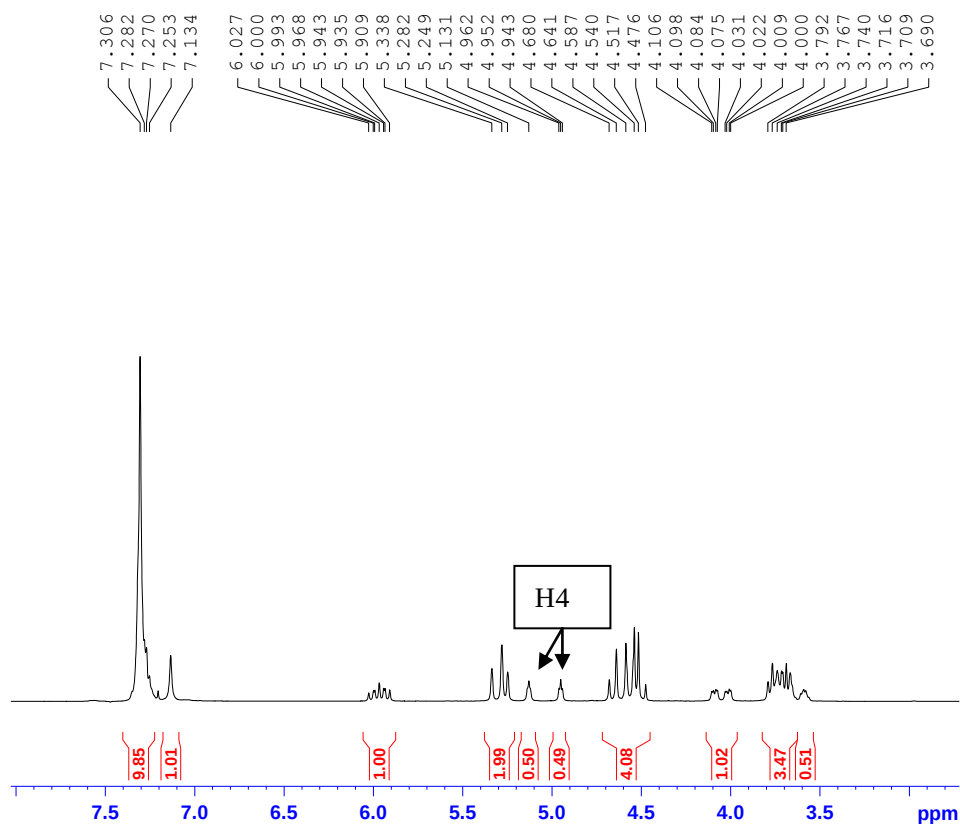
===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
GPNAM2 SINE.100
GP1 80.00 %
GP2 20.10 %
F16 1000.00 usec

F1 - Acquisition parameters
ND0 2
TD 128
SFO1 75.4753 MHz
FIDRES 140.512589 Hz
SW 238.298 ppm
FeMODE Echo-Antiecho

F2 - Processing parameters
SI 1024
SF 300.1300168 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 echo-antiecho
SF 75.4677480 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0



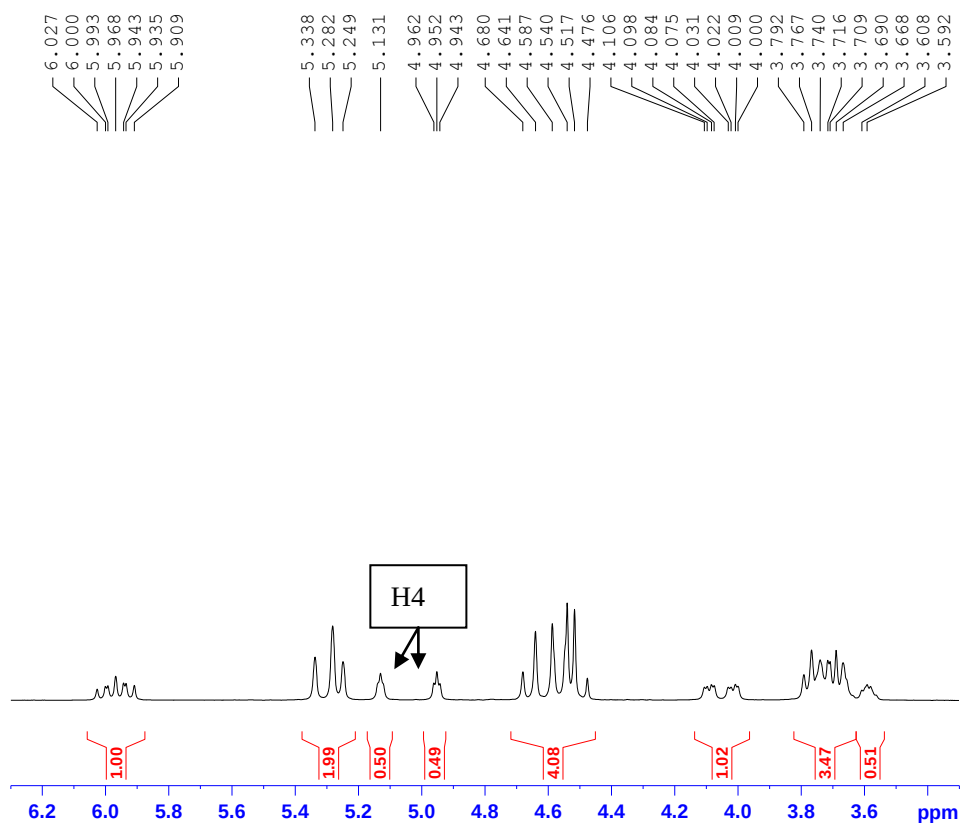


```

NAME      lyx4-108
EXPNO     10
PROCNO    1
Date_     20100401
Time      22.52
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         3
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         45.3
DW         55.600 usec
DE         8.00 usec
TE         296.2 K
D1         1.00000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1      1H
P1         10.80 usec
PL1        3.00 dB
SFO1      300.1324010 MHz
SI         32768
SF         300.1300223 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
  
```

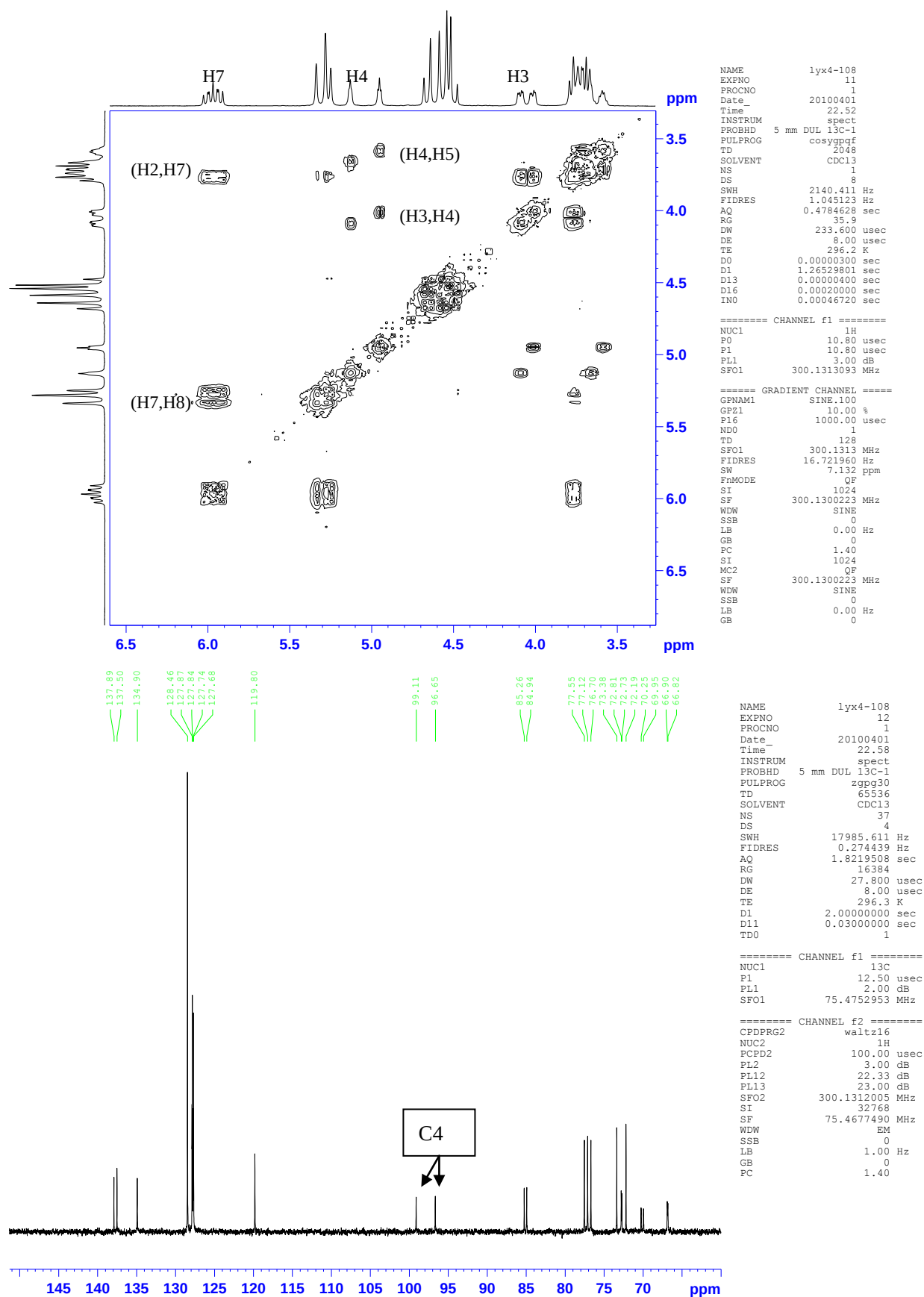


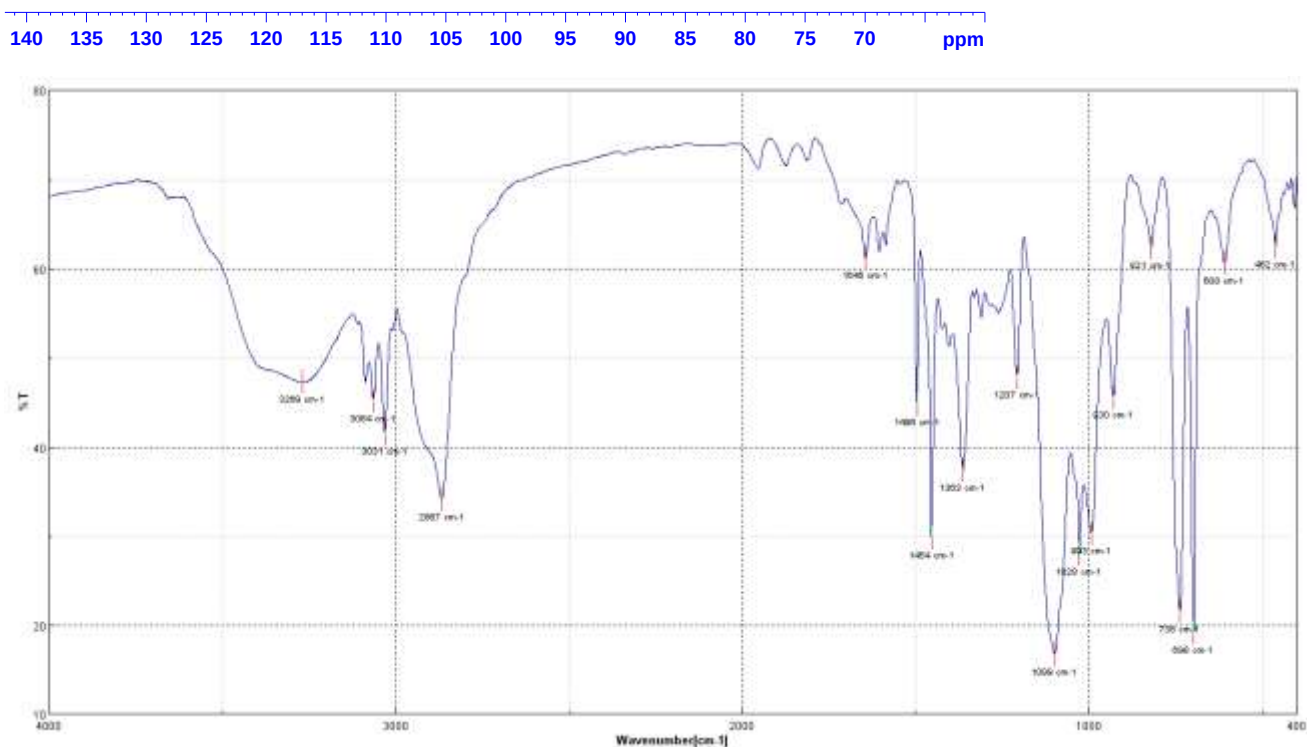
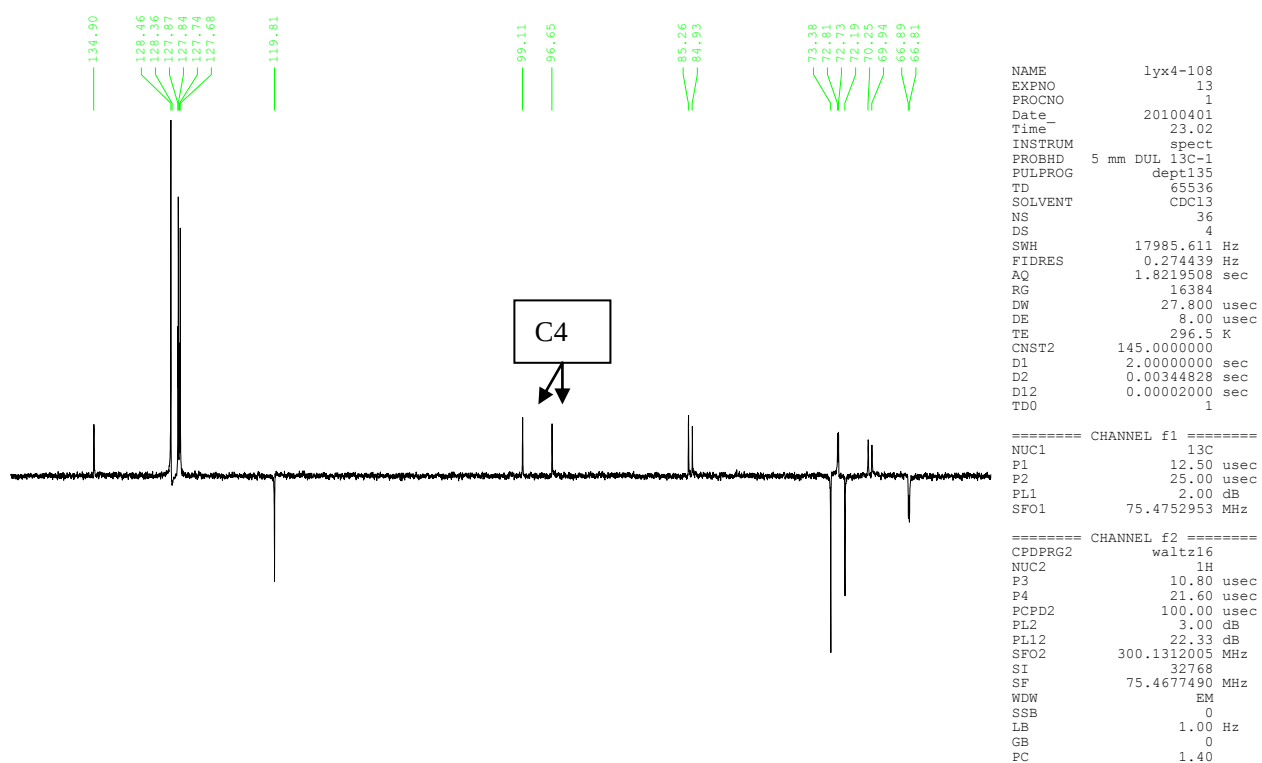
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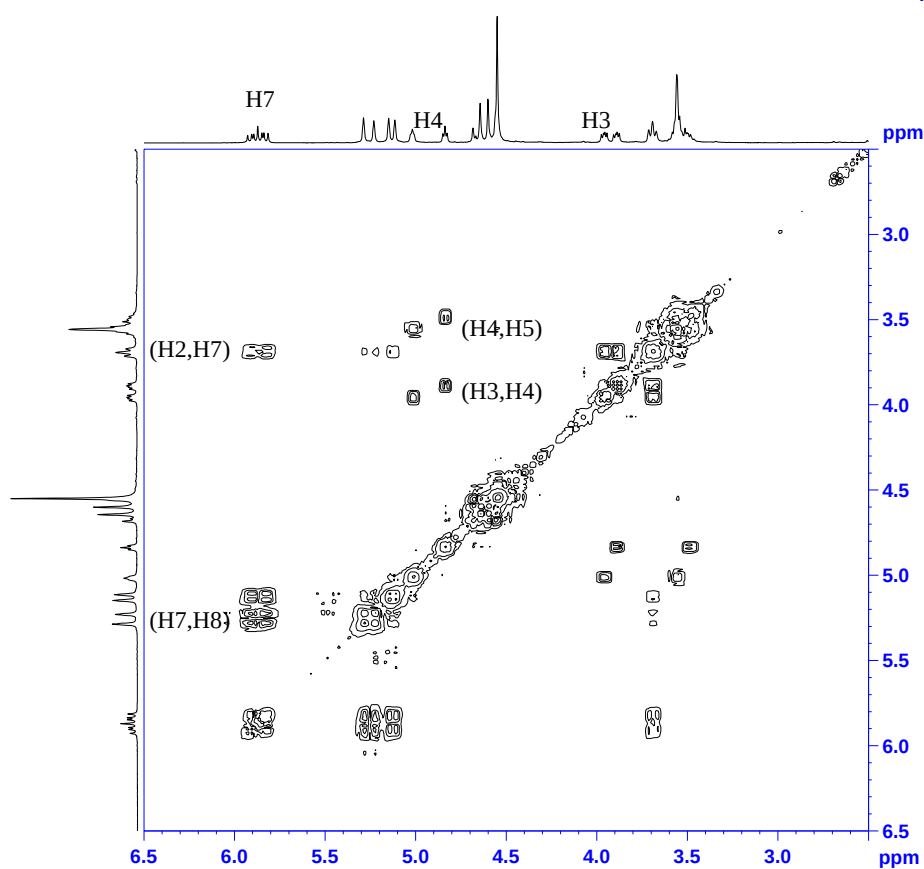
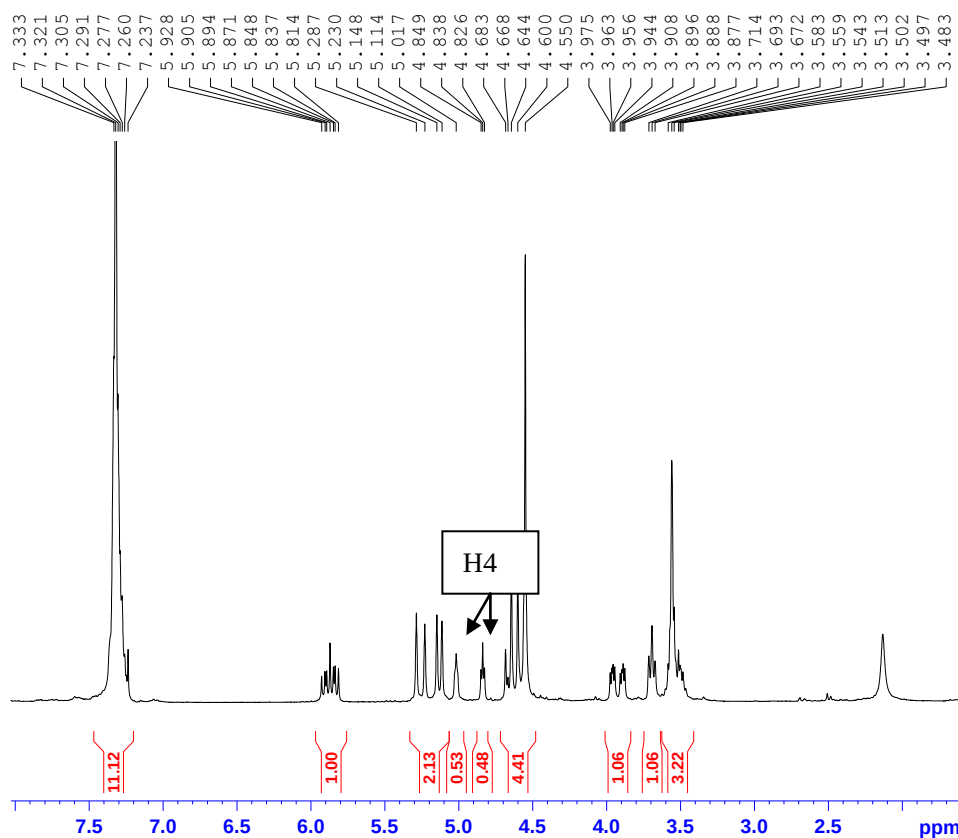
NAME      lyx4-108
EXPNO     10
PROCNO    1
Date_     20100401
Time      22.52
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         3
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         45.3
DW         55.600 usec
DE         8.00 usec
TE         296.2 K
D1         1.00000000 sec
TD0        1
  
```

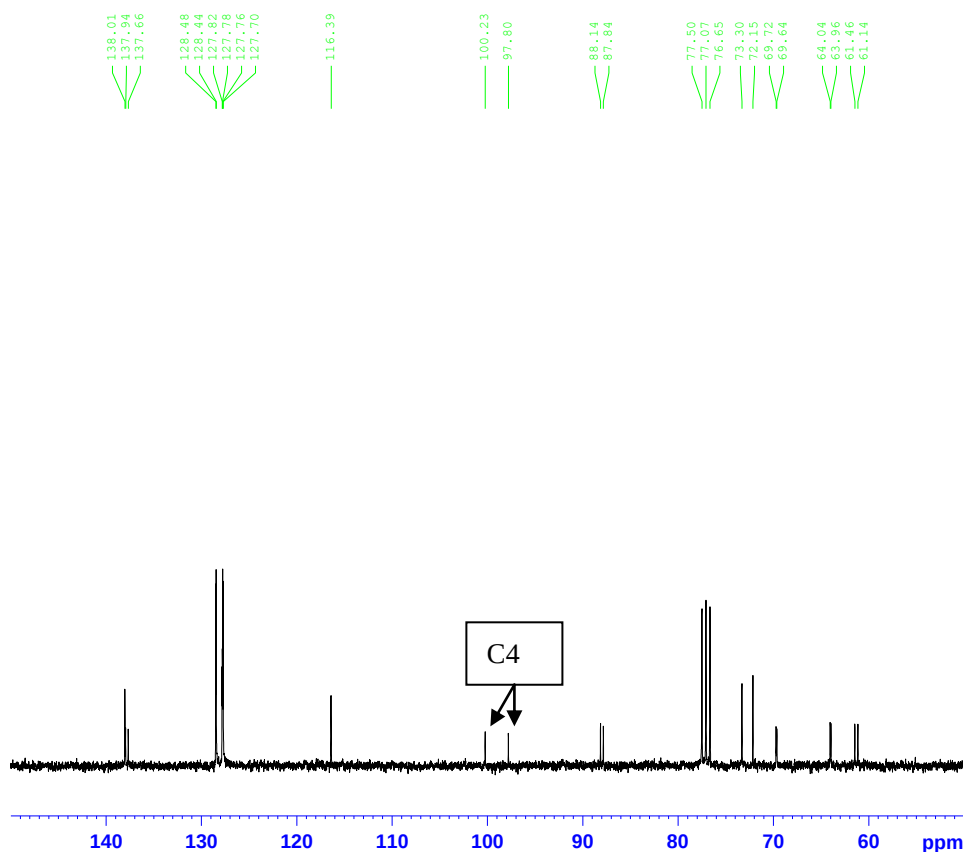
```

===== CHANNEL f1 =====
NUC1      1H
P1         10.80 usec
PL1        3.00 dB
SFO1      300.1324010 MHz
SI         32768
SF         300.1300223 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
  
```









```

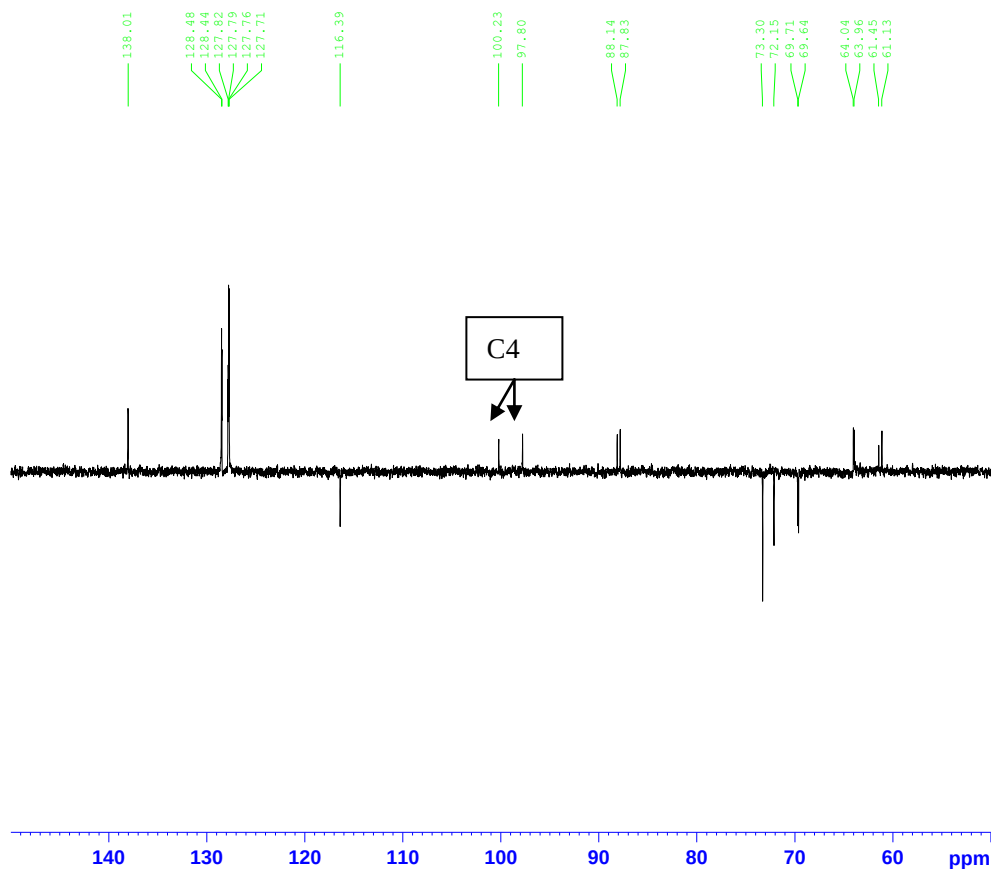
NAME      lyx4-109
EXPNO     12
PROCNO    1
Date_     20100401
Time      23.16
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         48
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         9195.2
DW         27.800 usec
DE         8.00 usec
TE         296.5 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SFO1       75.4752953 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2        1H
PCPD2       100.00 usec
PL2         3.00 dB
PL12        22.33 dB
PL13        23.00 dB
SFO2        300.1312005 MHz
SI          32768
SF          75.4677490 MHz
WDW         EM
SSB         0
LB          1.00 Hz
GB          0
PC          1.40
  
```



```

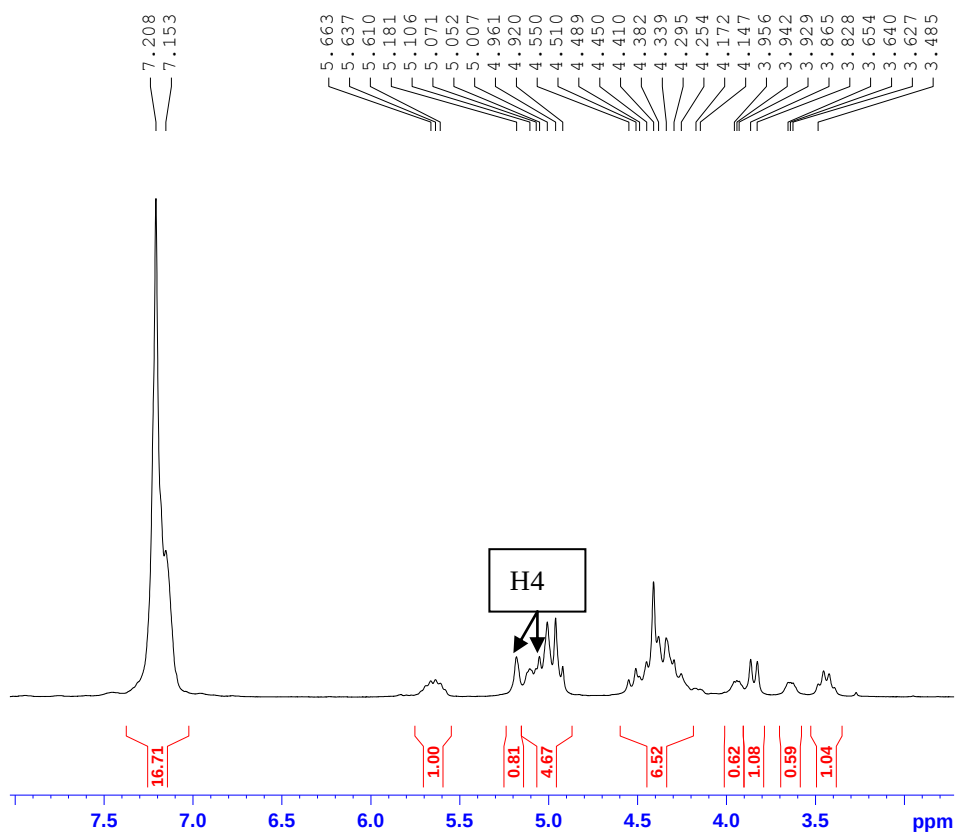
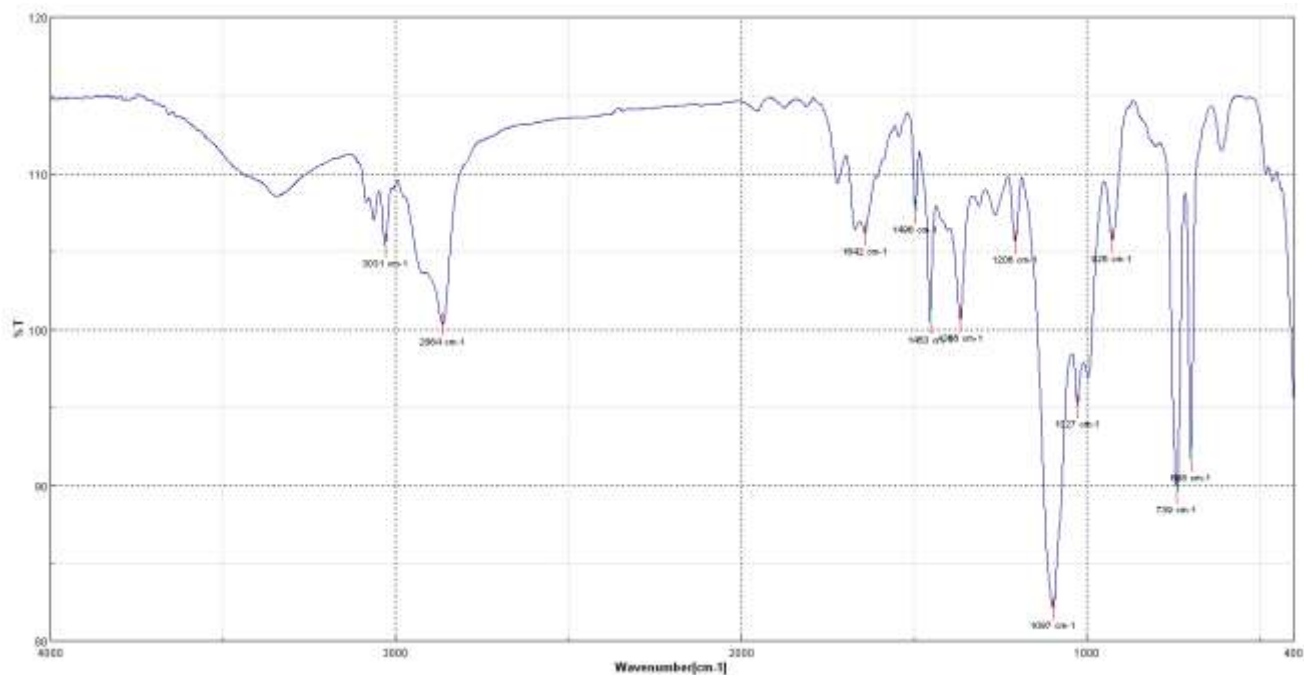
NAME      lyx4-109
EXPNO     13
PROCNO    1
Date_     20100401
Time      23.19
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   dept135
TD         65536
SOLVENT   CDCl3
NS         41
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         16384
DW         27.800 usec
DE         8.00 usec
TE         296.5 K
CNST2     145.0000000
D1         2.00000000 sec
D2         0.00344828 sec
D12        0.00002000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       13C
P1         12.50 usec
P2         25.00 usec
PL1        2.00 dB
SFO1       75.4752953 MHz
  
```

```

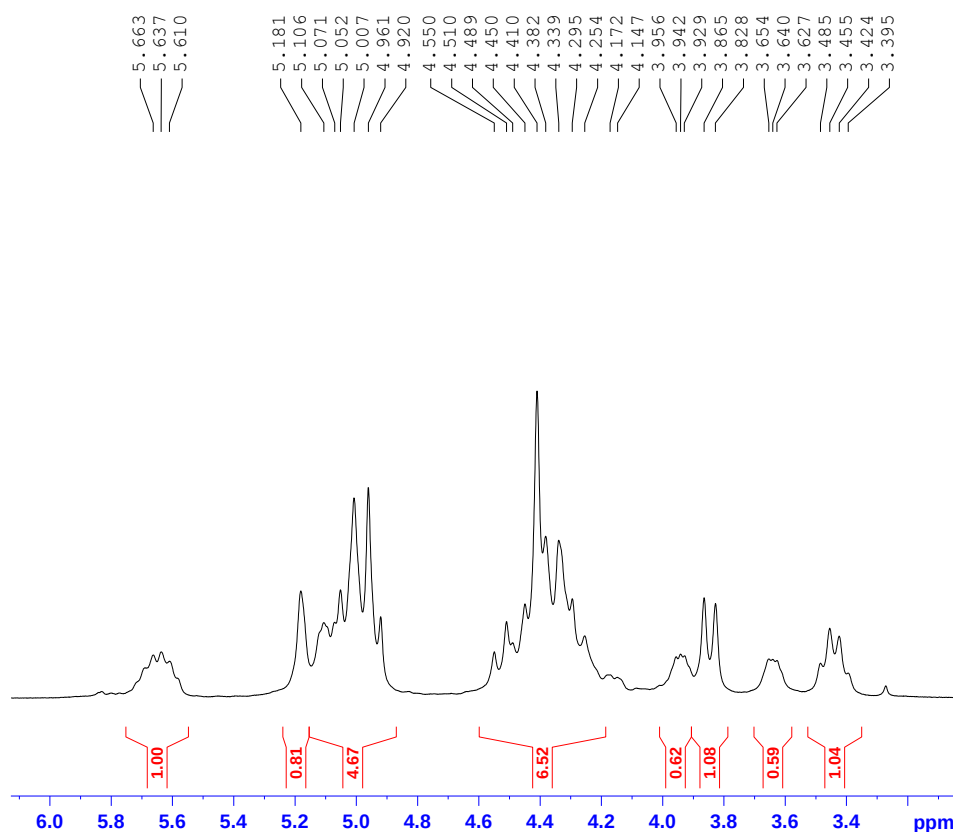
===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2        1H
P3          10.80 usec
P4          21.60 usec
PCPD2       100.00 usec
PL2         3.00 dB
PL12        22.33 dB
SFO2        300.1312005 MHz
SI          32768
SF          75.4677490 MHz
WDW         EM
SSB         0
LB          1.00 Hz
GB          0
PC          1.40
  
```



```

NAME          lyx4-110
EXPNO         20
PROCNO        1
Date_         20100318
Time          15.31
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            2
DS            0
SWH           8992.806 Hz
FIDRES        0.137219 Hz
AQ            3.6438515 sec
RG            35.9
DW            55.600 usec
DE            8.00 usec
TE            295.7 K
D1            1.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            10.80 usec
PL1           3.00 dB
SFO1          300.1324010 MHz
SI            32768
SF            300.1300555 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```



```

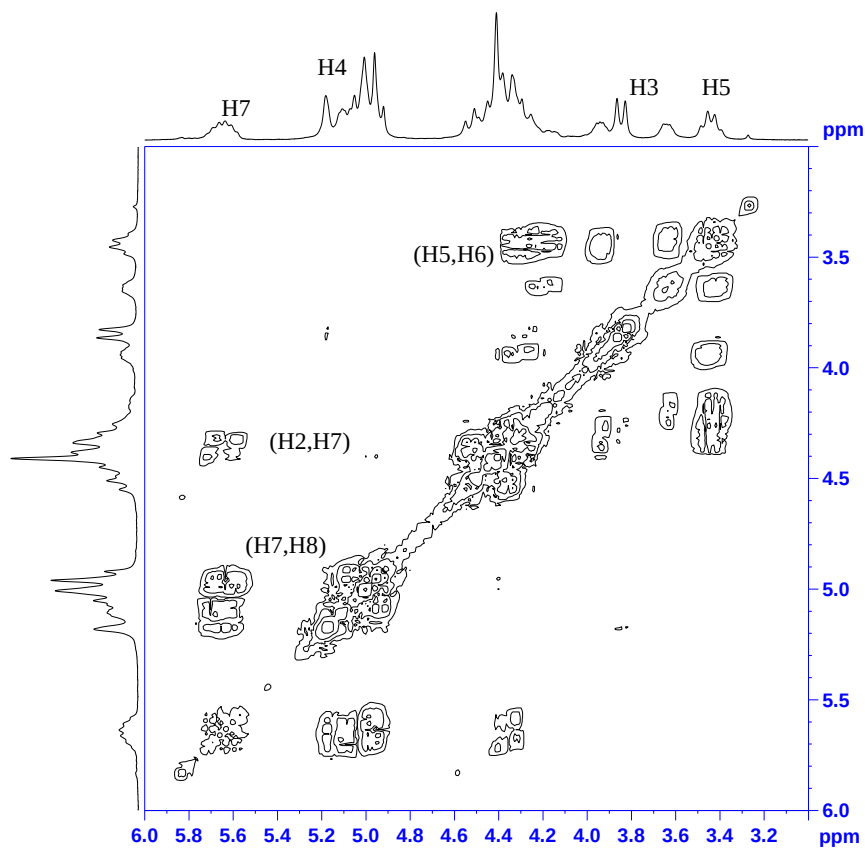
NAME      1yx4-110
EXPNO     20
PROCNO    1
Date_     20100318
Time      15.31
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         2
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         35.9
DW         55.600 usec
DE         8.00 usec
TE         295.7 K
D1         1.00000000 sec
D10        1

```

```

===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1324010 MHz
SI         32768
SF         300.1300555 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00

```



```

NAME      1yx4-110
EXPNO     21
PROCNO    1
Date_     20100318
Time      15.32
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   cosygpgqf
TD         2048
SOLVENT   CDCl3
NS         1
DS         8
SWH        2913.753 Hz
FIDRES     1.422731 Hz
AQ         0.3514868 sec
RG         28.5
DW         171.600 usec
DE         8.00 usec
TE         295.7 K
DO         0.00000300 sec
D1         1.39227402 sec
D13        0.00000400 sec
D16        0.00020000 sec
IN0        0.00034320 sec

```

```

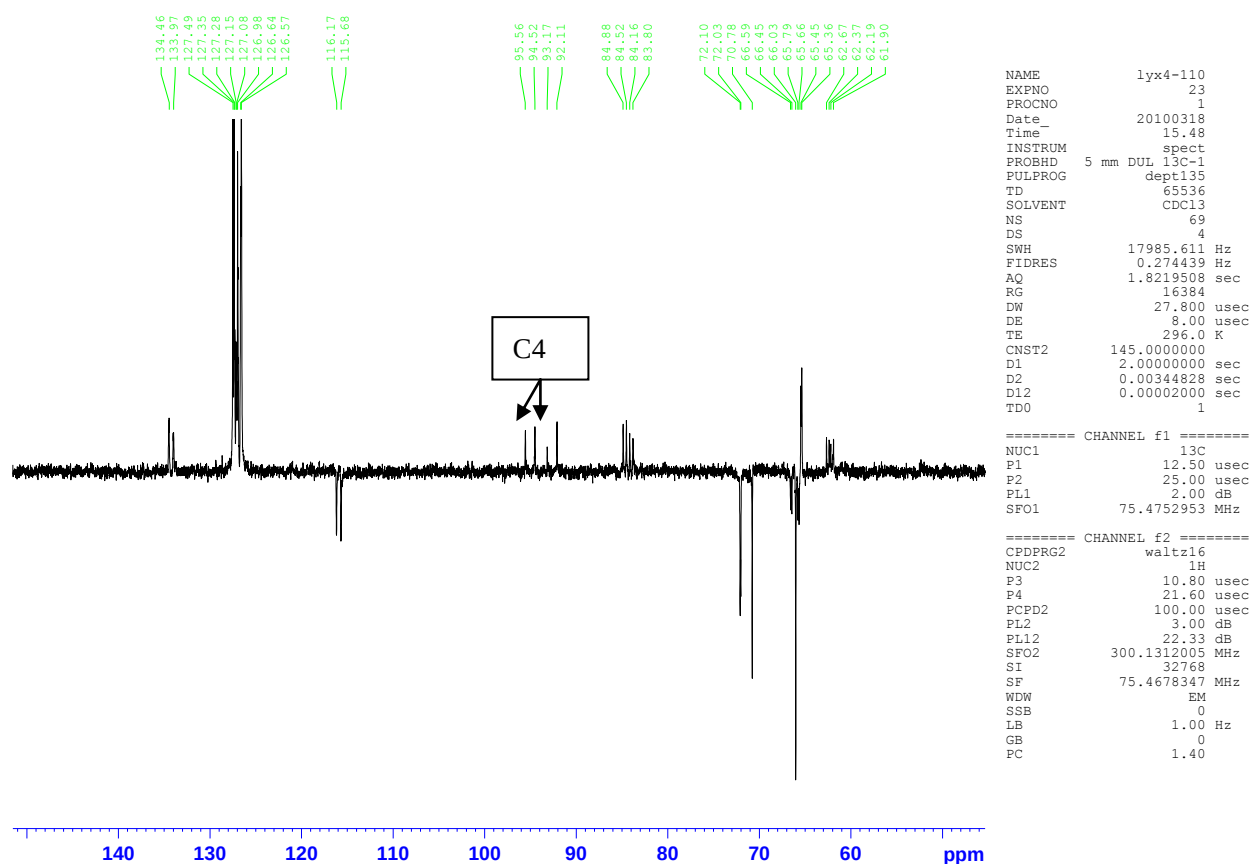
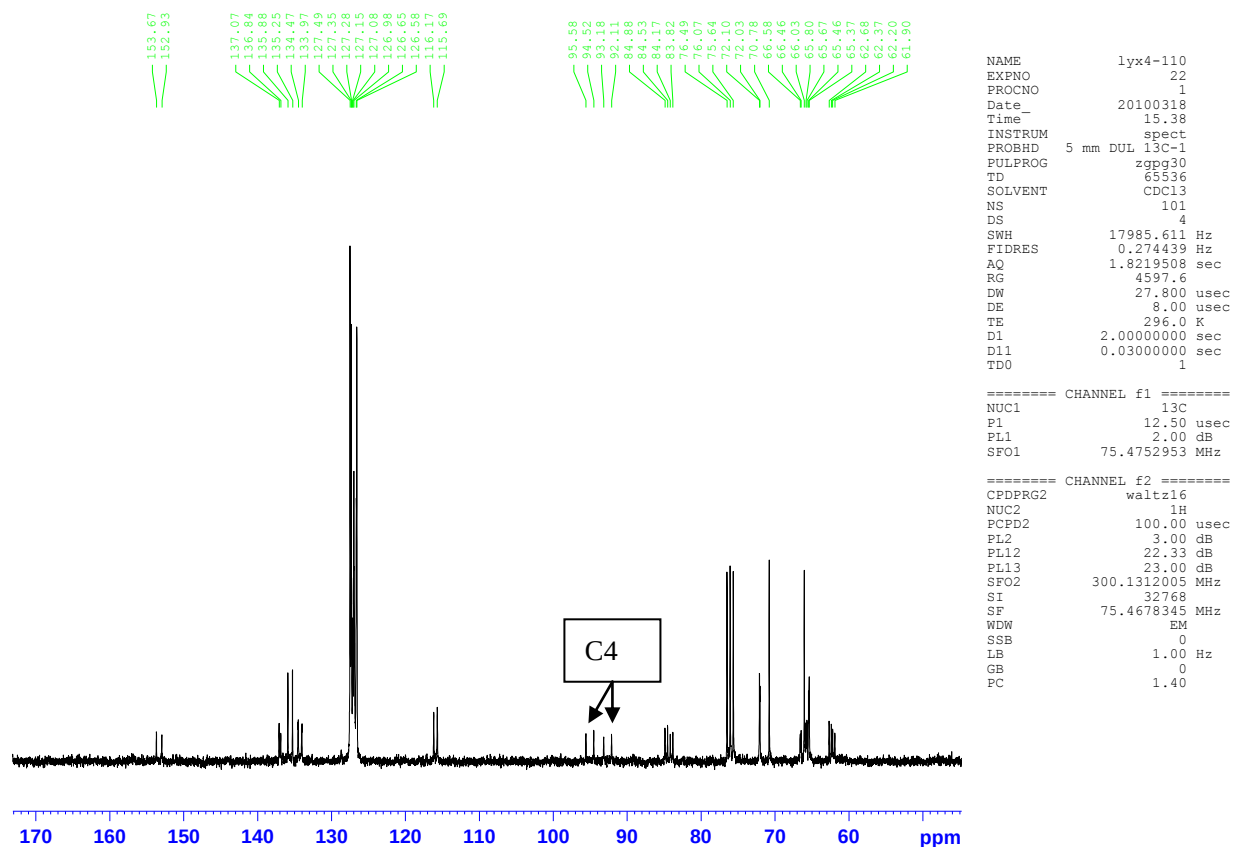
===== CHANNEL f1 =====
NUC1       1H
P0         10.80 usec
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1312501 MHz

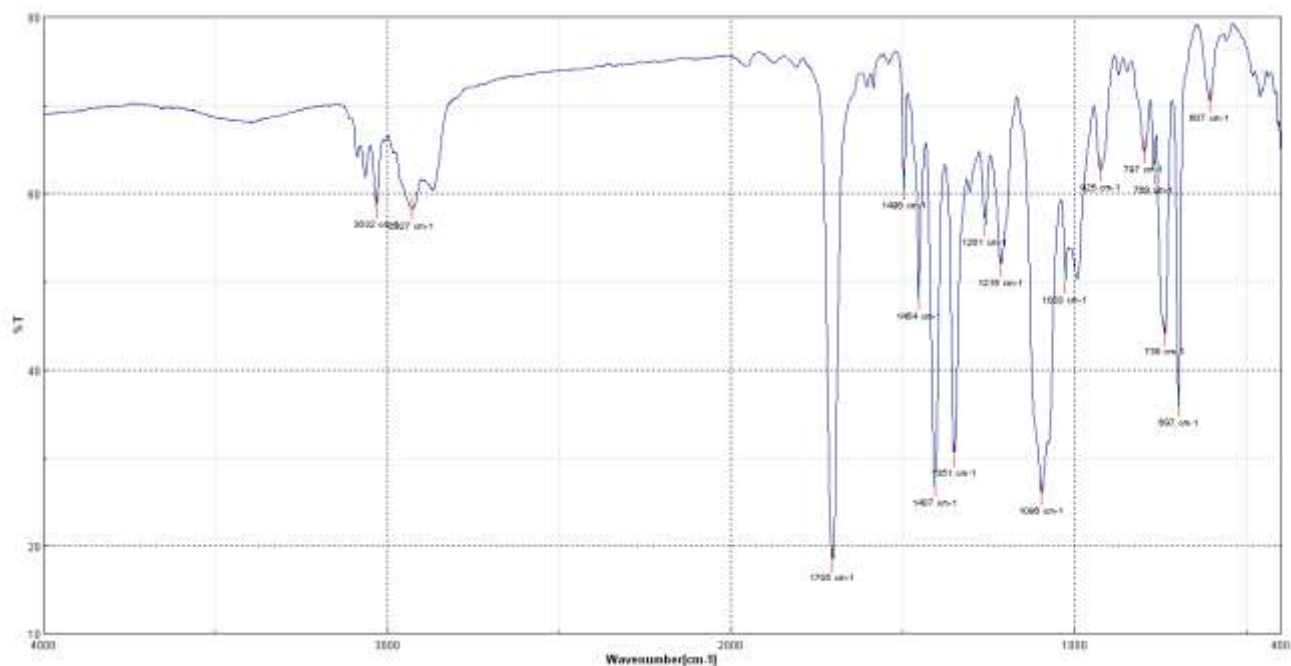
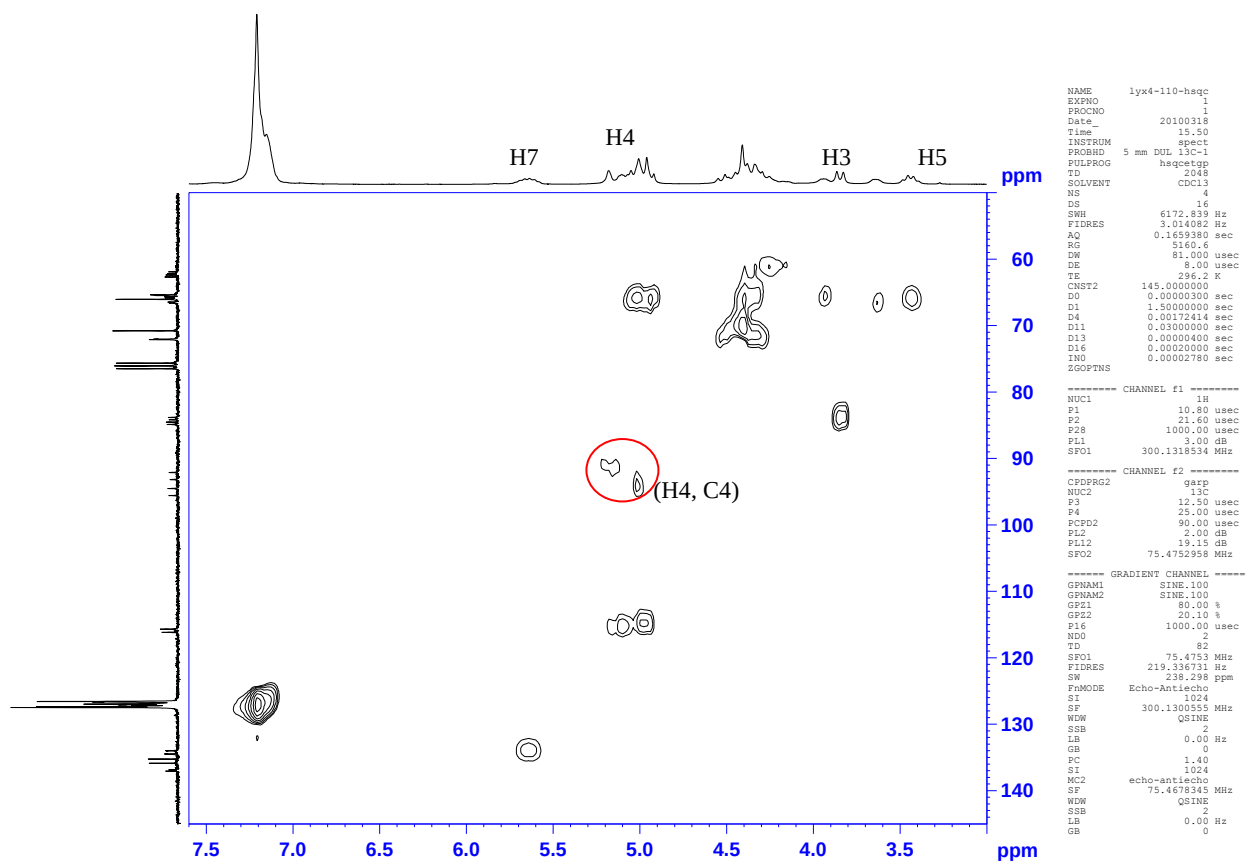
```

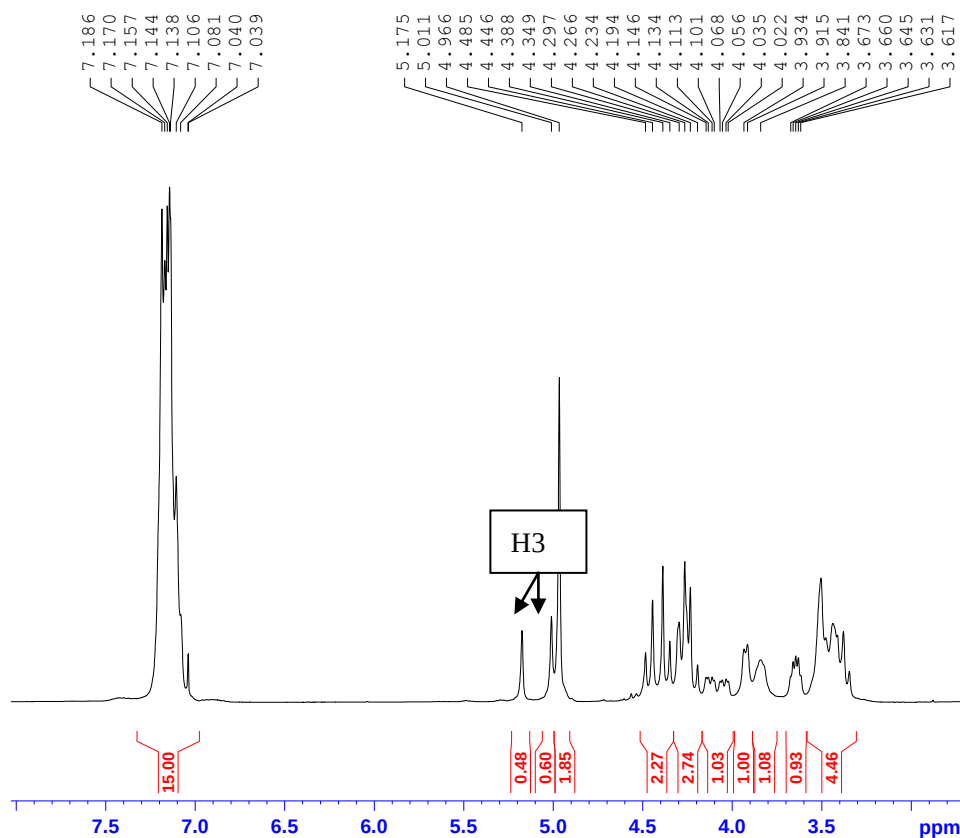
```

===== GRADIENT CHANNEL =====
GPNAM1     SINE.100
GP21       10.00 %
P16        1000.00 usec
ND0        1
TD         128
SFO1       300.1313 MHz
FIDRES     22.763695 Hz
SW         9.708 ppm
FnmODE     QF
SI         1024
SF         300.1300554 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
PC         1.40
SI         1024
MC2        QF
SF         300.1300554 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0

```





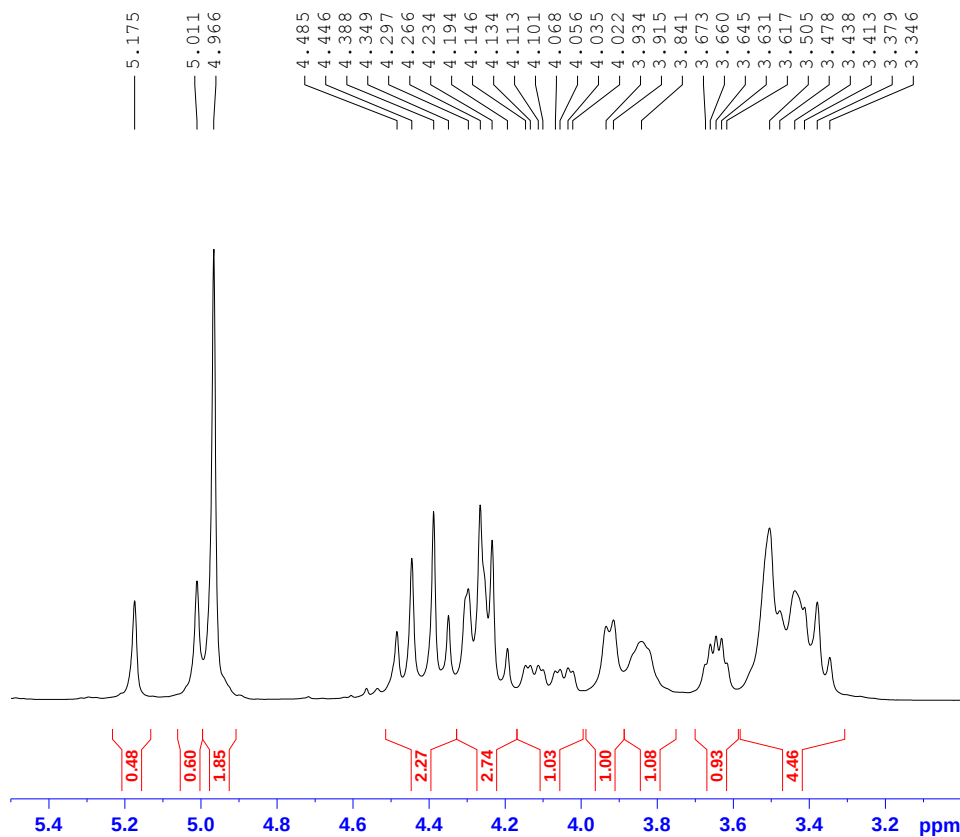


```

NAME      lyx4-115a
EXPNO     11
PROCNO    1
Date_     20100409
Time      9.52
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         14
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         25.4
DW         55.600 usec
DE         8.00 usec
TE         298.4 K
D1         1.00000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1      1H
P1        10.80 usec
PL1       3.00 dB
SFO1      300.1324010 MHz
SI        32768
SF        300.1300712 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
  
```

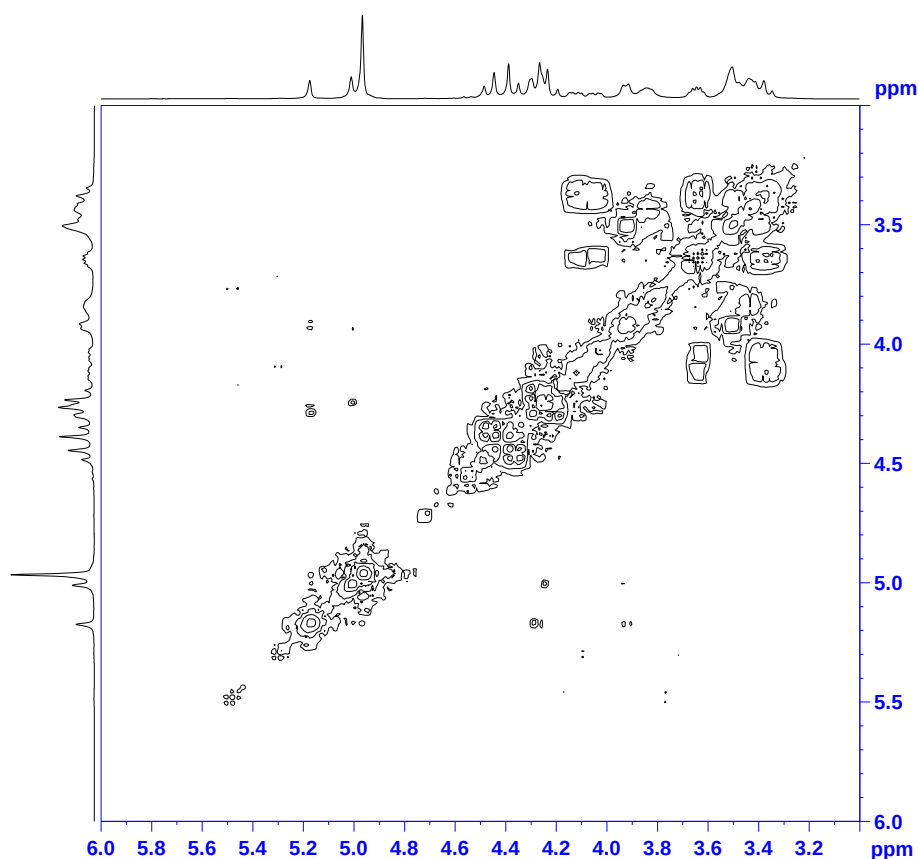


```

NAME      lyx4-115a
EXPNO     11
PROCNO    1
Date_     20100409
Time      9.52
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         14
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         25.4
DW         55.600 usec
DE         8.00 usec
TE         298.4 K
D1         1.00000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1      1H
P1        10.80 usec
PL1       3.00 dB
SFO1      300.1324010 MHz
SI        32768
SF        300.1300712 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
  
```



```

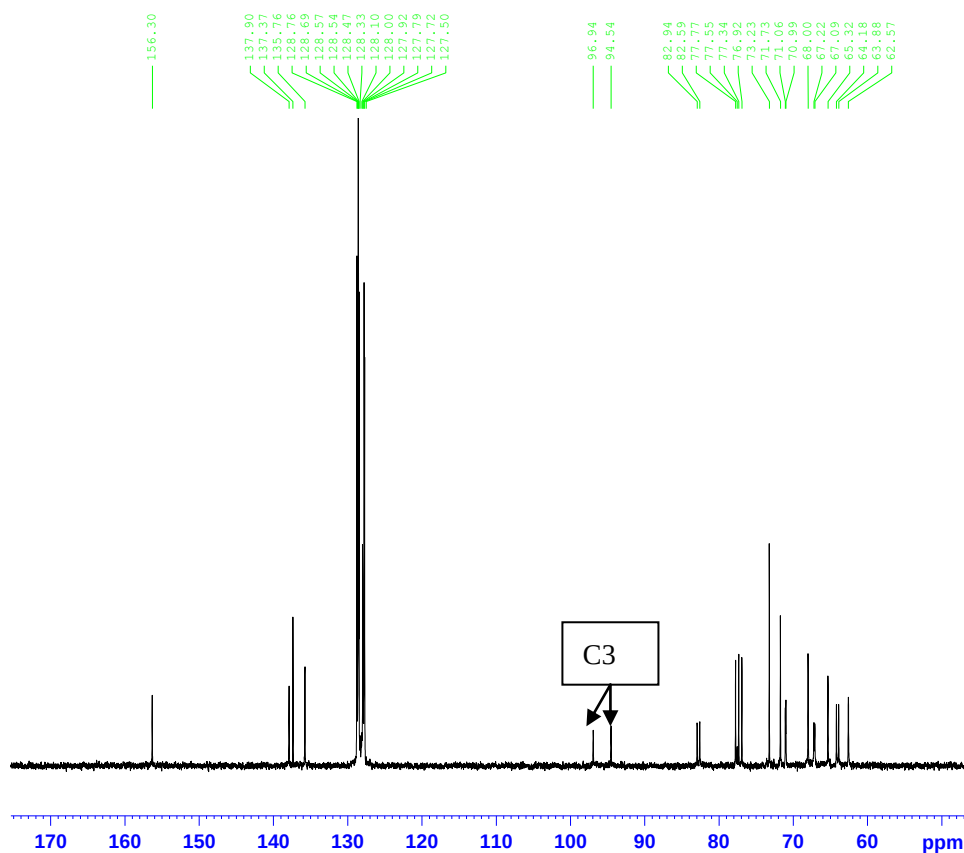
NAME      lyx4-115a
EXPNO     12
PROCNO    1
Date_     20100409
Time      9.53
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         2048
SOLVENT   CDCl3
NS         1
DS         8
SWH        2637.131 Hz
FIDRES     1.287662 Hz
AQ         0.3883508 sec
RG         14.3
DW         189.600 usec
DE         8.00 usec
TE         298.4 K
D0         0.00000300 sec
D1         1.35336196 sec
D13        0.00000400 sec
D16        0.00020000 sec
IN0        0.00037920 sec
  
```

```

===== CHANNEL f1 =====
NUC1       1H
P0         10.80 usec
PL1        10.80 usec
PL11       3.00 dB
SFO1       300.1315328 MHz
  
```

```

===== GRADIENT CHANNEL =====
GPNAM1     SINE.100
GP21       10.00 %
P16        1000.00 usec
ND0        1
TD         128
SFO1       300.1315 MHz
FIDRES     20.602585 Hz
SW         8.787 ppm
FnMODE     QF
SI         1024
SF         300.1300712 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
PC         1.40
SI         1024
MC2        QF
SF         300.1300712 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
  
```



```

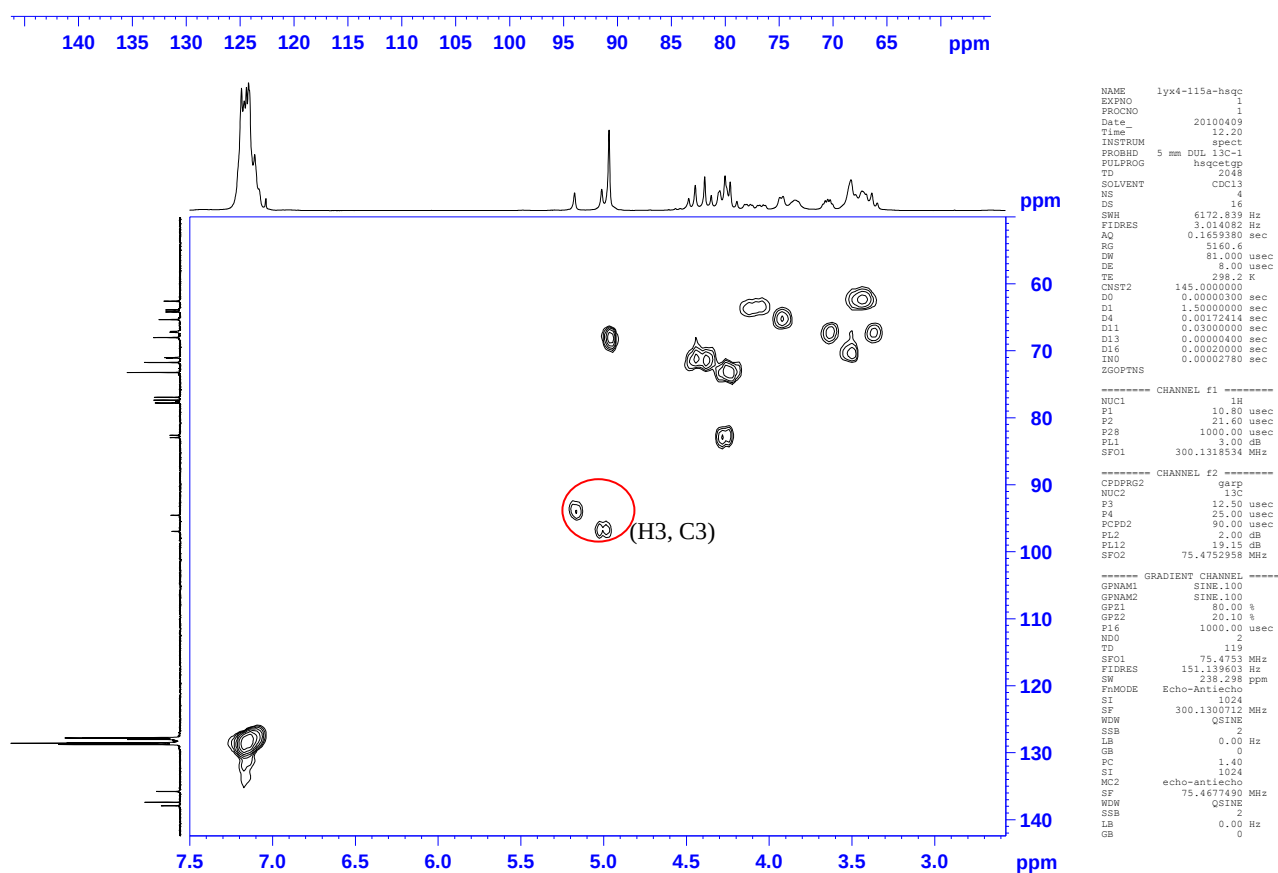
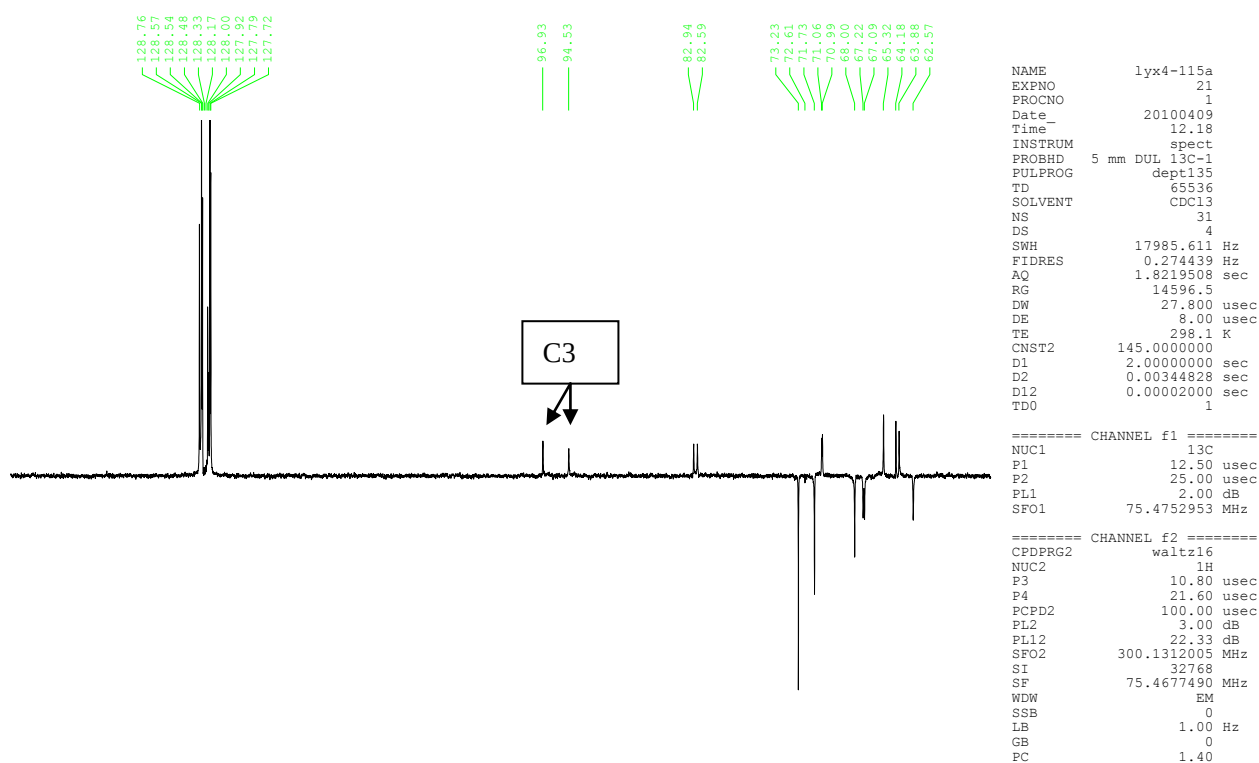
NAME      lyx4-115a
EXPNO     20
PROCNO    1
Date_     20100409
Time      12.14
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         47
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         9195.2
DW         27.800 usec
DE         8.00 usec
TE         298.1 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
  
```

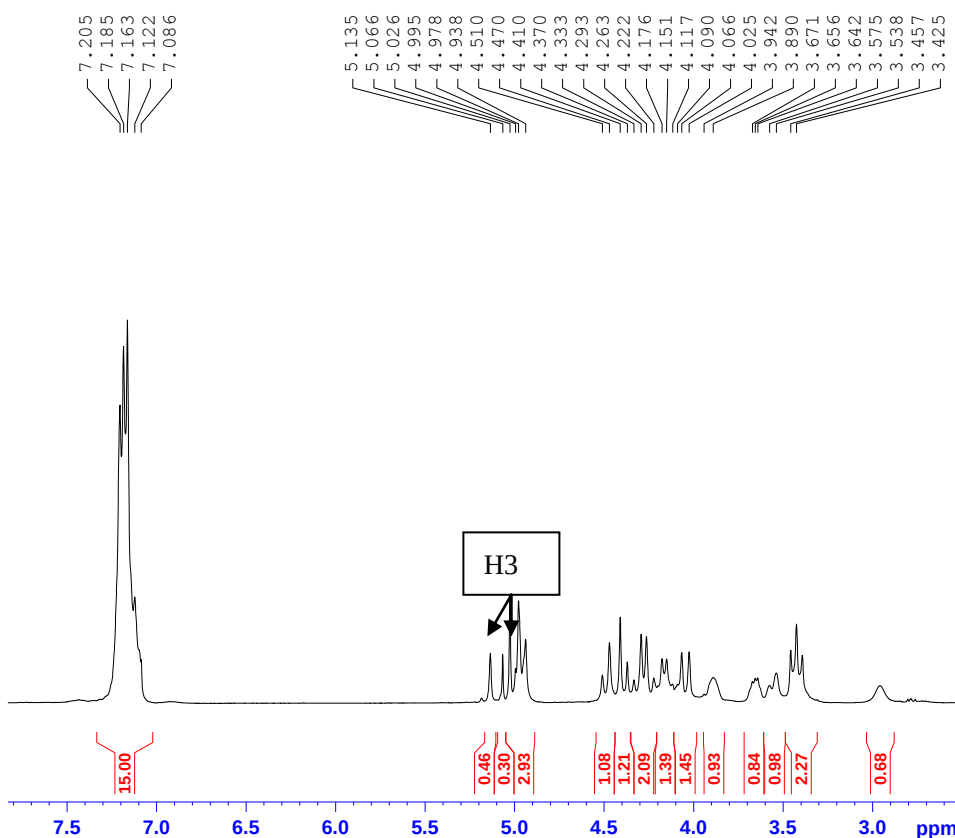
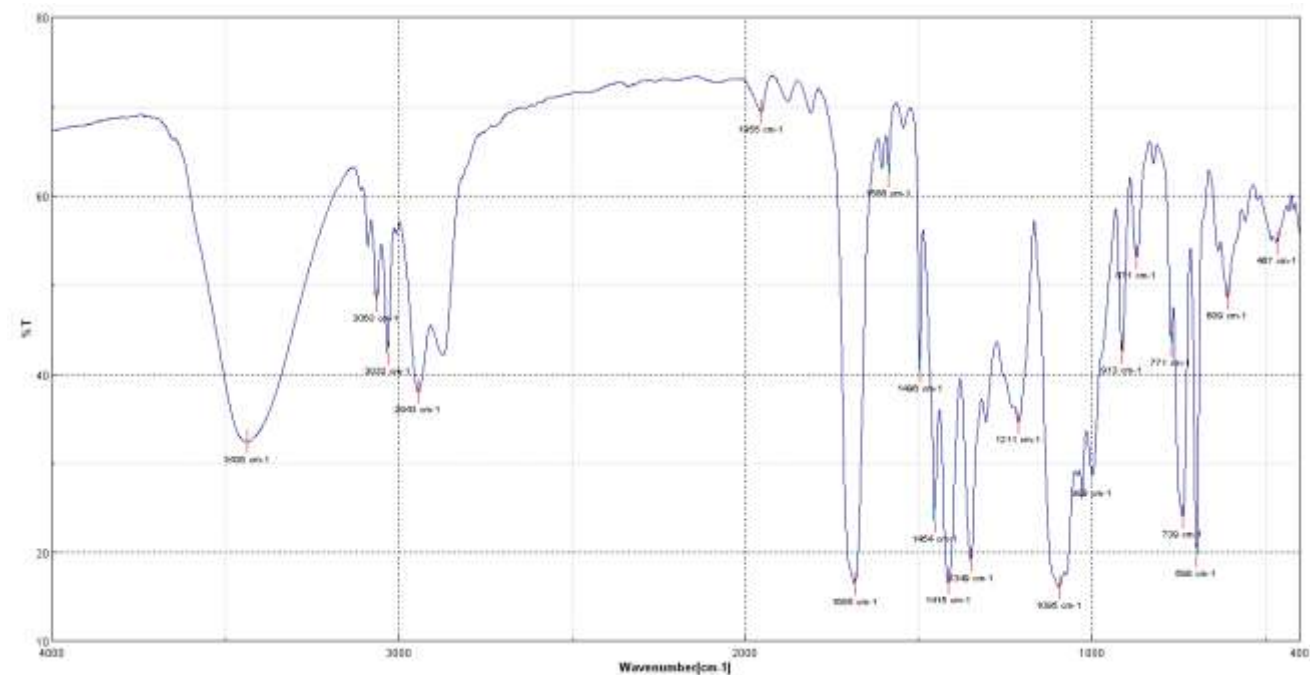
```

===== CHANNEL f1 =====
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SFO1       75.4752953 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      100.00 usec
PL2        3.00 dB
PL12       22.33 dB
PL13       23.00 dB
SFO2       300.1312005 MHz
SI         32768
SF         75.4677490 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
  
```

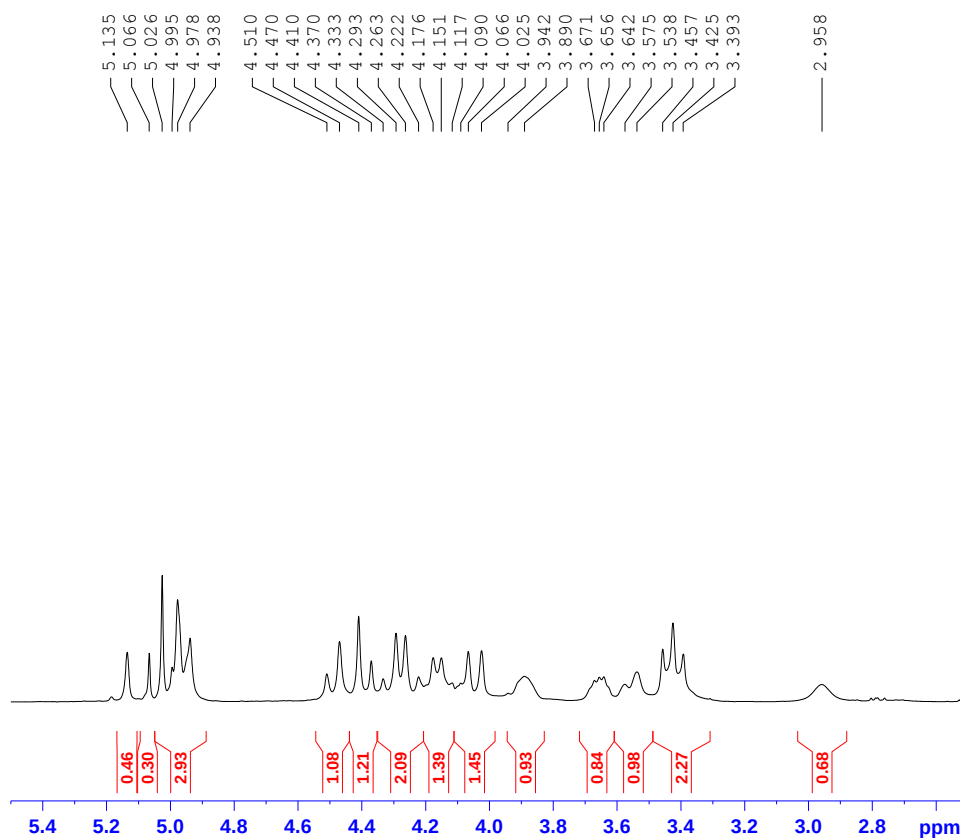





```

NAME          1yx4-115b
EXPNO         10
PROCNO        1
Date_         20100409
Time         10.01
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            2
DS            0
SWH           8992.806 Hz
FIDRES        0.137219 Hz
AQ            3.6438515 sec
RG            32
DW            55.600 usec
DE            8.00 usec
TE            298.4 K
D1            1.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            10.80 usec
PL1           3.00 dB
SFO1          300.1324010 MHz
SI            32768
SF            300.1300581 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```



```

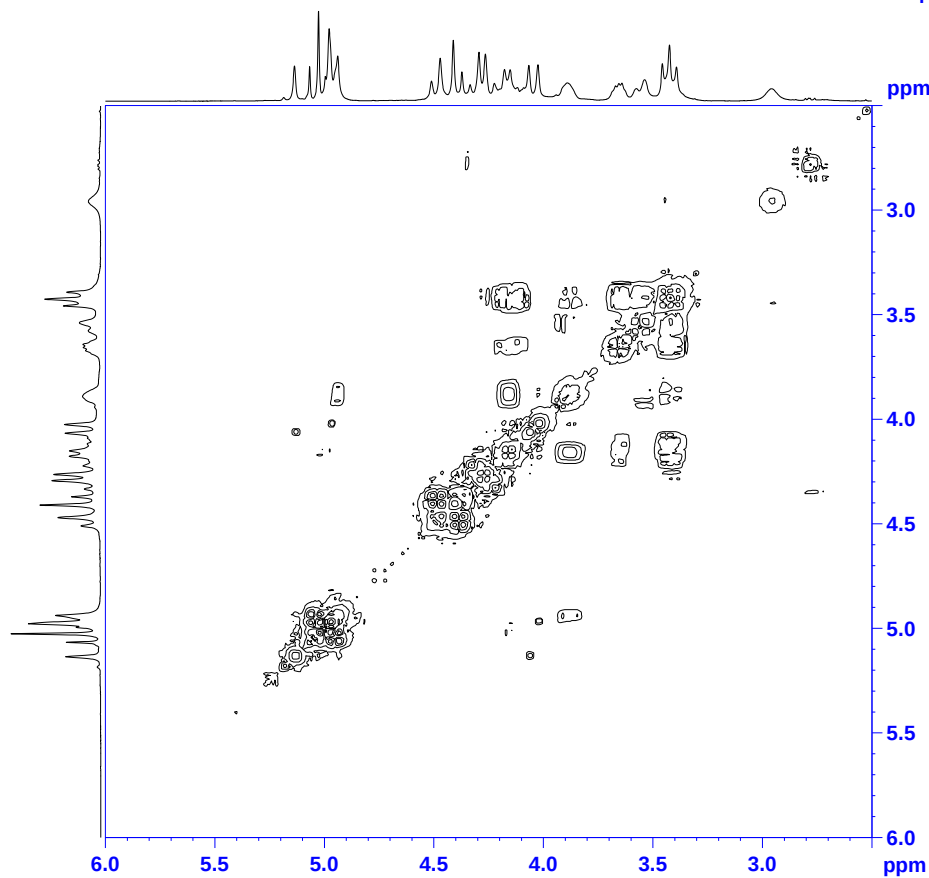
NAME      lyx4-115b
EXPNO     10
PROCNO    1
Date_     20100409
Time      10.01
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD        65536
SOLVENT   CDCl3
NS         2
DS         0
SWH       8992.806 Hz
FIDRES    0.137219 Hz
AQ        3.6438515 sec
RG         32
DW        55.600 usec
DE         8.00 usec
TE        298.4 K
D1        1.00000000 sec
D10       1

```

```

===== CHANNEL f1 =====
NUC1      1H
P1        10.80 usec
PL1       3.00 dB
SFO1     300.1324010 MHz
SI        32768
SF        300.1300581 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00

```



```

NAME      lyx4-115b
EXPNO     11
PROCNO    1
Date_     20100409
Time      10.02
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   cosygpgf
TD        2048
SOLVENT   CDCl3
NS         1
DS         8
SWH       2556.237 Hz
FIDRES    1.248163 Hz
AQ        0.4006388 sec
RG         20.2
DW        195.600 usec
DE         8.00 usec
TE        298.4 K
D0        0.00000300 sec
D1        1.34312201 sec
D13       0.00000400 sec
D16       0.00020000 sec
INO       0.00039120 sec

```

```

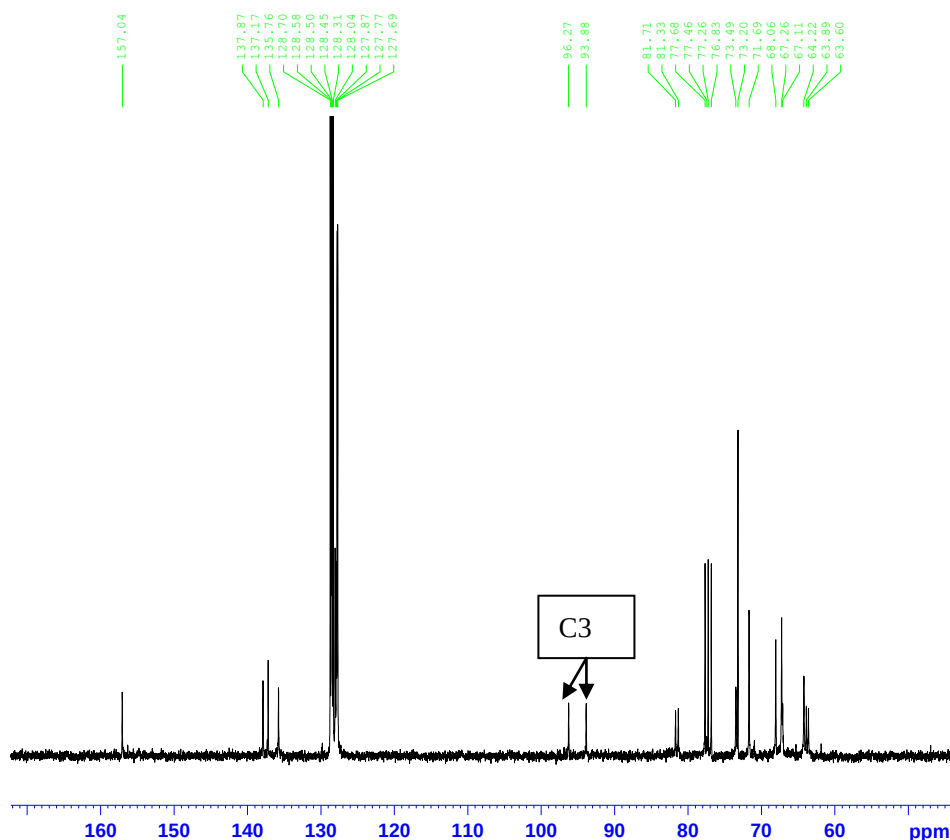
===== CHANNEL f1 =====
NUC1      1H
P0        10.80 usec
P1        10.80 usec
PL1       3.00 dB
SFO1     300.1314752 MHz

```

```

===== GRADIENT CHANNEL =====
GPNAM1    SINE.100
GP21      10.00 %
P16       1000.00 usec
ND0       1
TD        128
SFO1     300.1315 MHz
FIDRES    19.970604 Hz
SW        8.517 ppm
FhMODE    QF
SI        1024
SF        300.1300581 MHz
WDW       SINE
SSB       0
LB        0.00 Hz
GB        0
PC        1.40
SI        1024
MC2       QF
SF        300.1300581 MHz
WDW       SINE
SSB       0
LB        0.00 Hz
GB        0

```



```

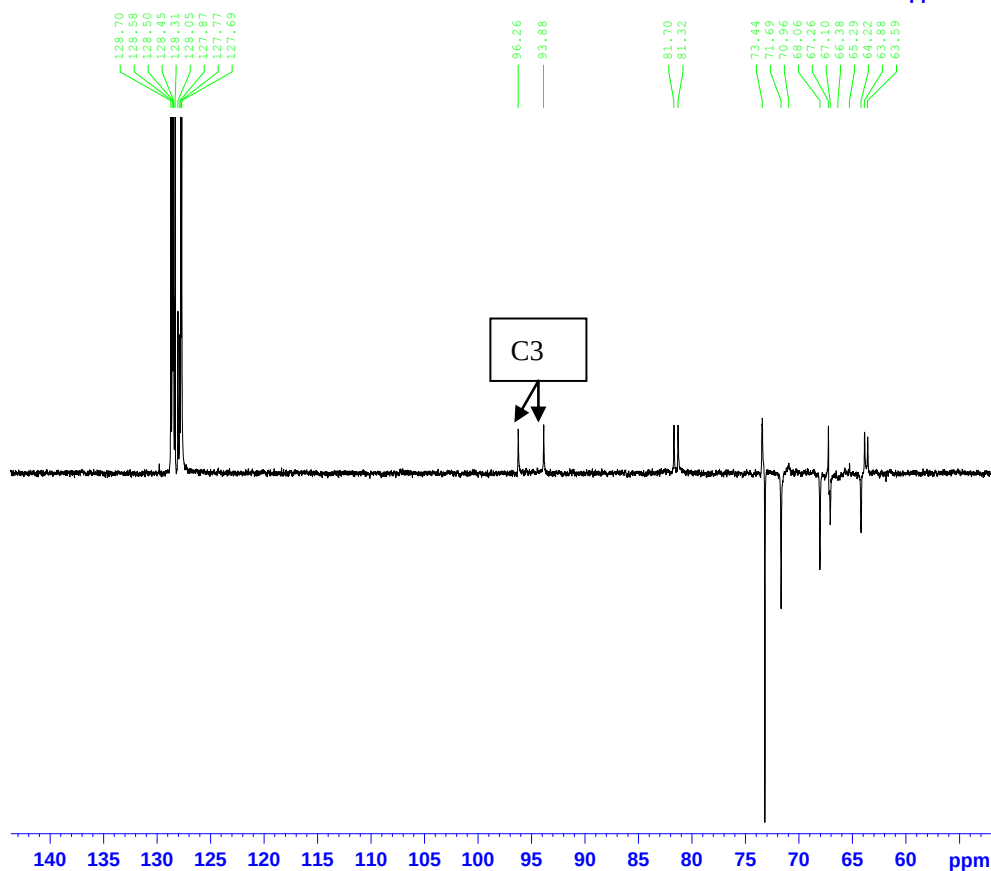
NAME      lyx4-115b
EXPNO     22
PROCNO    1
Date_     20100409
Time      12.43
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         78
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         9195.2
DW         27.800 usec
DE         8.00 usec
TE         298.2 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SFO1       75.4752953 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2        1H
PCPD2      100.00 usec
PL2         3.00 dB
PL12        22.33 dB
PL13        23.00 dB
SFO2       300.1312005 MHz
SI         32768
SF         75.4677490 MHz
WDW         EM
SSB         0
LB          1.00 Hz
GB          0
PC          1.40
  
```



```

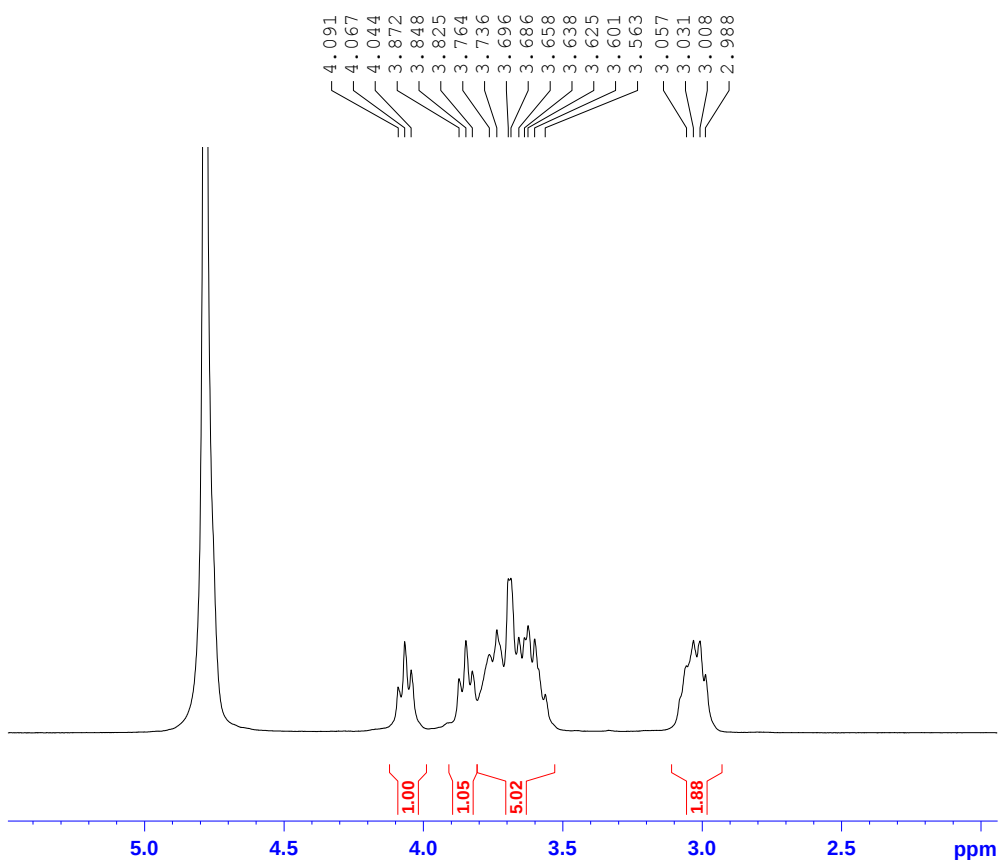
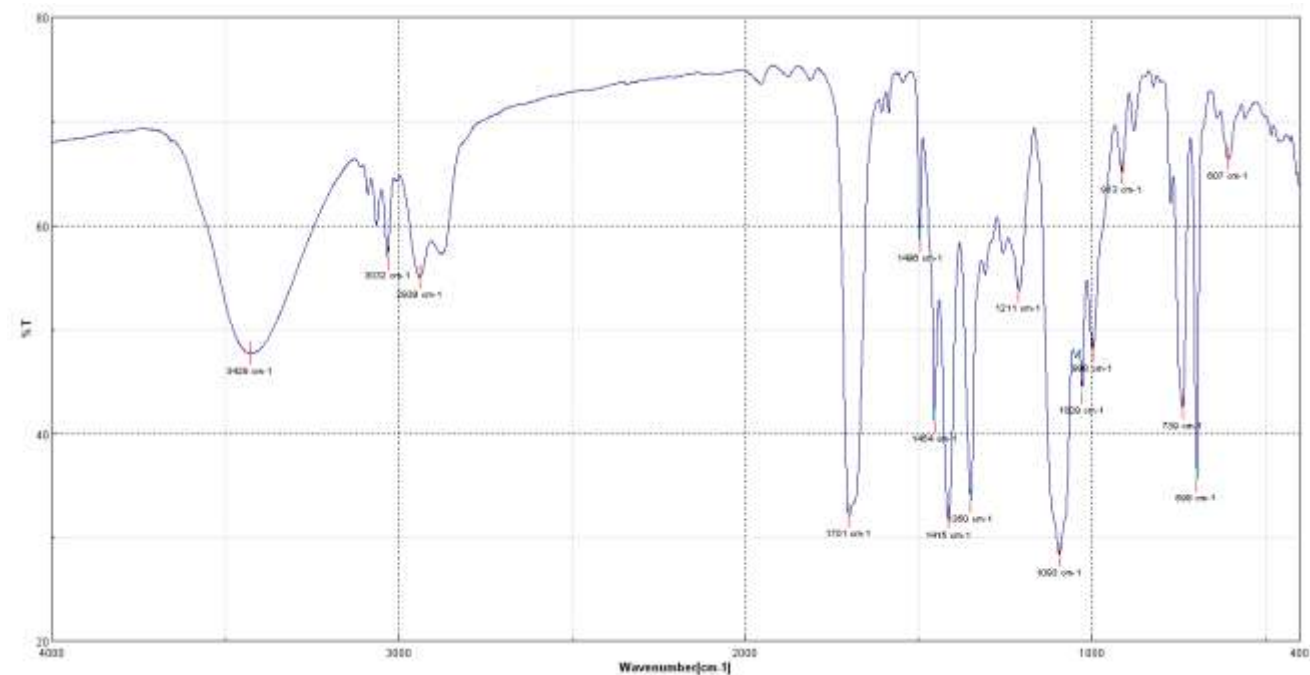
NAME      lyx4-115b
EXPNO     23
PROCNO    1
Date_     20100409
Time      12.51
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   dept135
TD         65536
SOLVENT   CDCl3
NS         86
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         16384
DW         27.800 usec
DE         8.00 usec
TE         298.1 K
CNST2     145.00000000
D1         2.00000000 sec
D2         0.00344828 sec
D12        0.00002000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       13C
P1         12.50 usec
P2         25.00 usec
PL1        2.00 dB
SFO1       75.4752953 MHz
  
```

```

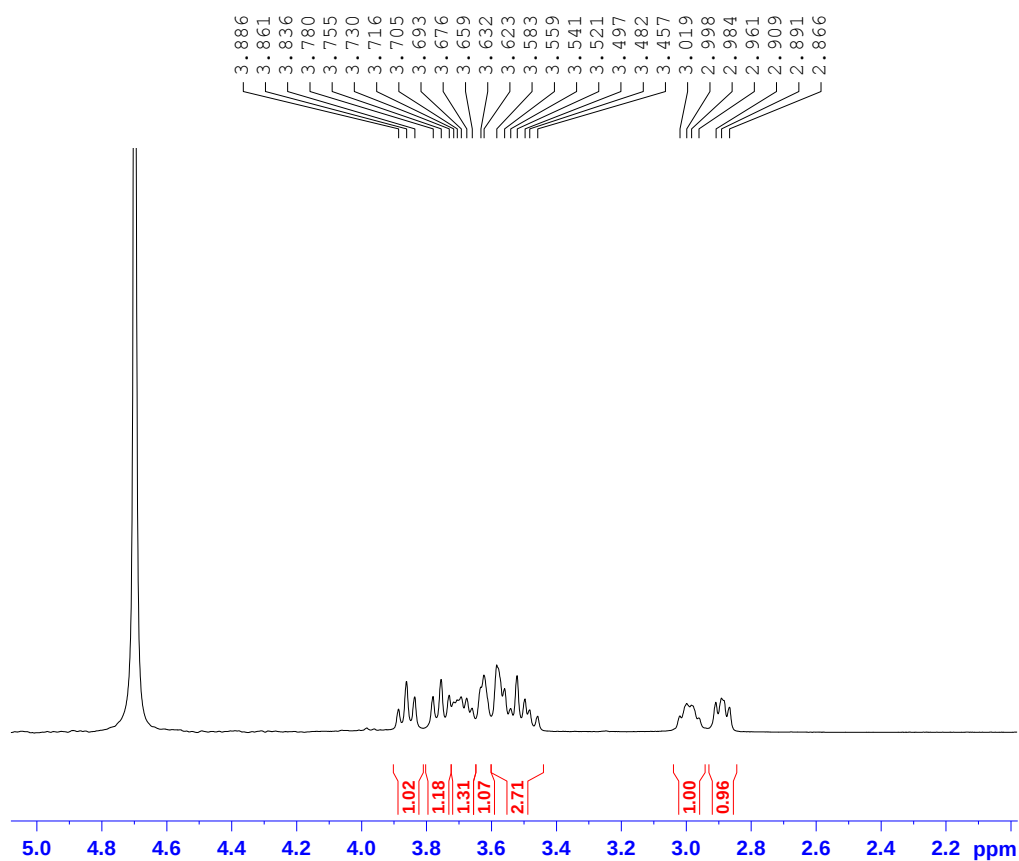
===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2        1H
P3          10.80 usec
P4          21.60 usec
PCPD2      100.00 usec
PL2         3.00 dB
PL12        22.33 dB
SFO2       300.1312005 MHz
SI         32768
SF         75.4677490 MHz
WDW         EM
SSB         0
LB          1.00 Hz
GB          0
PC          1.40
  
```



```

NAME      lyx4-146a
EXPNO     10
PROCNO    1
Date_     20100511
Time      9.17
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         32768
SOLVENT   CDC13
NS         7
DS         0
SWH        8992.806 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         114
RW         55.600 usec
DE         8.00 usec
TE         298.4 K
D1         2.00000000 sec
TD0        1

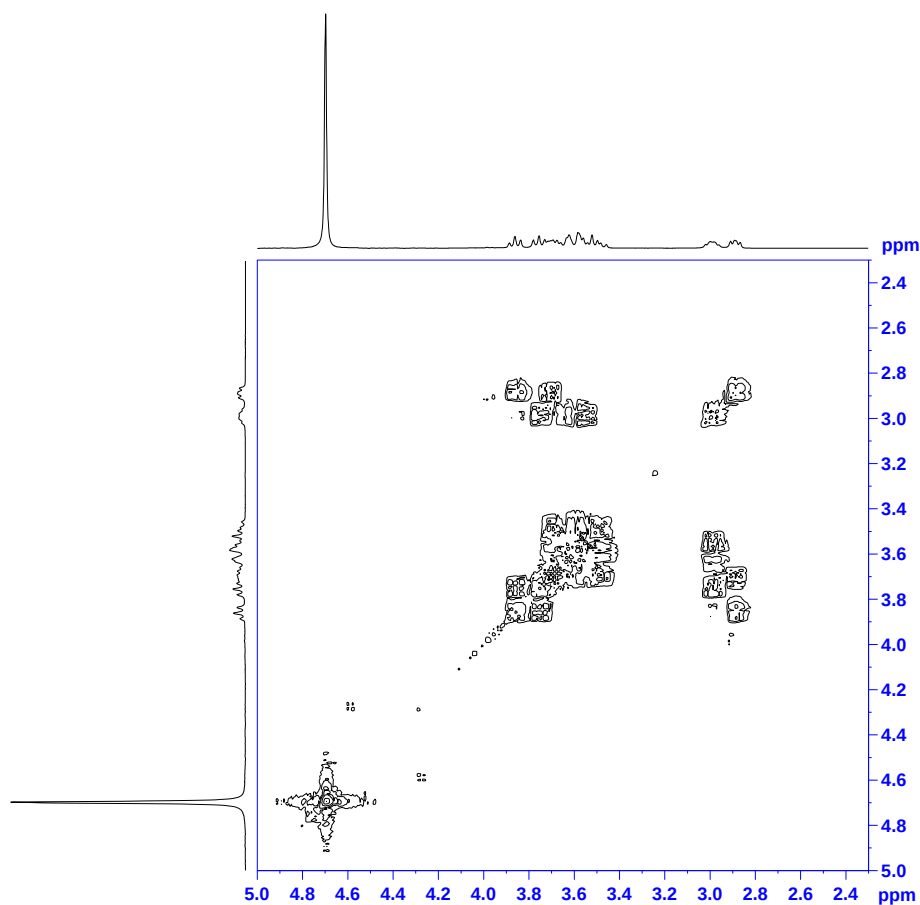
===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1318008 MHz
SI         32768
SF         300.1307370 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
    
```



```

NAME      lyx4-146b
EXPNO     10
PROCNO    1
Date_     20100511
Time_     17.04
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   D2O
NS         3
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         128
DW         55.600 usec
DE         8.00 usec
TE         298.8 K
D1         1.00000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1324010 MHz
SI         32768
SF         300.1300000 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
  
```

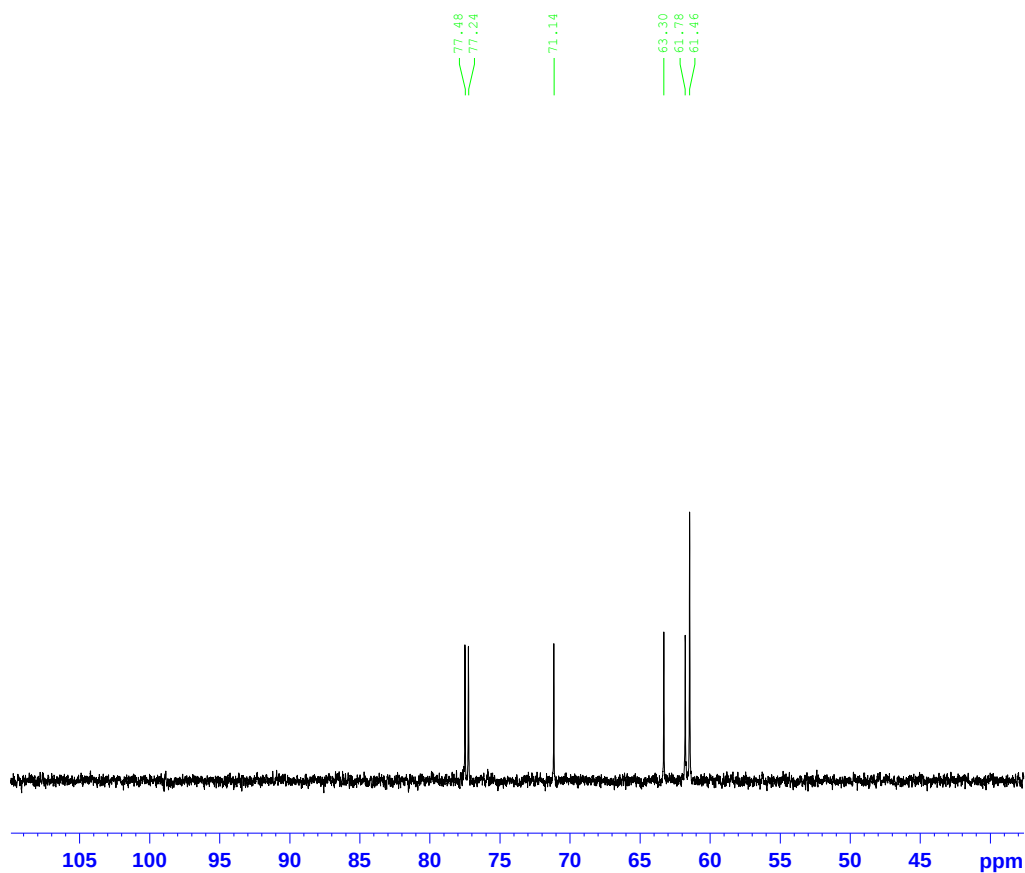


```

NAME      lyx4-146b
EXPNO     11
PROCNO    1
Date_     20100511
Time_     17.05
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   cosygpgf
TD         2048
SOLVENT   D2O
NS         1
DS         8
SWH        1698.370 Hz
FIDRES     0.829282 Hz
AQ         0.6029812 sec
RG         64
DW         294.400 usec
DE         8.00 usec
TE         298.8 K
D0         0.00000300 sec
D1         1.14037001 sec
D13        0.00000400 sec
D16        0.00020000 sec
IN0        0.00058880 sec

===== CHANNEL f1 =====
NUC1       1H
P0         10.80 usec
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1315290 MHz

===== GRADIENT CHANNEL =====
GPNAM1    SINE,100
GP21      10.00 %
P16       1000.00 usec
ND0       1
TD         128
SFO1      300.1315 MHz
FIDRES     13.268512 Hz
SW         5.659 ppm
FMODE     QF
SI         1024
SF         300.1300000 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
PC         1.40
SI         1024
MC2       QF
SF         300.1300000 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
  
```



```

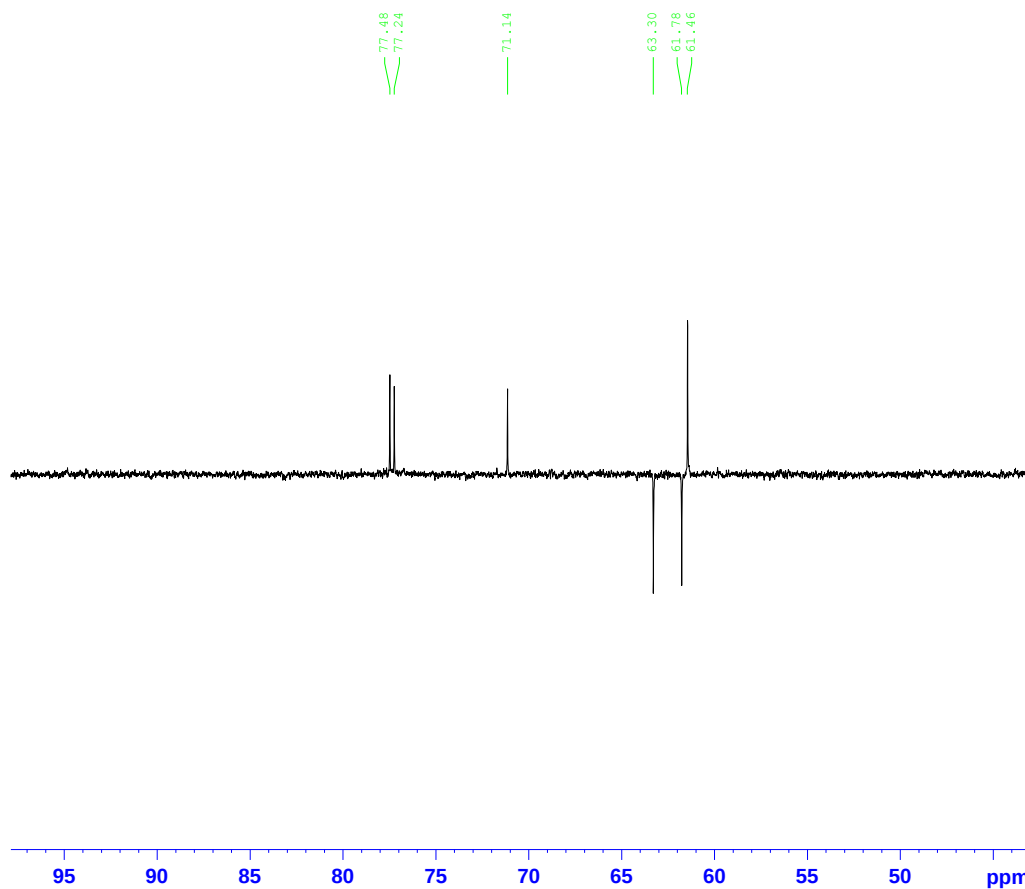
NAME          lyx4-146b
EXPNO         12
PROCNO        1
Date_         20100511
Time          17.10
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zgpg30
TD            65536
SOLVENT       D2O
NS            63
DS            4
SWH           17985.611 Hz
FIDRES        0.274439 Hz
AQ            1.8219508 sec
RG            16384
DW            27.800 usec
DE            8.00 usec
TE            298.8 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1
  
```

```

===== CHANNEL f1 =====
NUC1          13C
P1            12.50 usec
PL1           2.00 dB
SFO1          75.4752953 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         100.00 usec
PL2           3.00 dB
PL12          22.33 dB
PL13          23.00 dB
SFO2          300.1312005 MHz
SI            32768
SF            75.4677490 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40
  
```



```

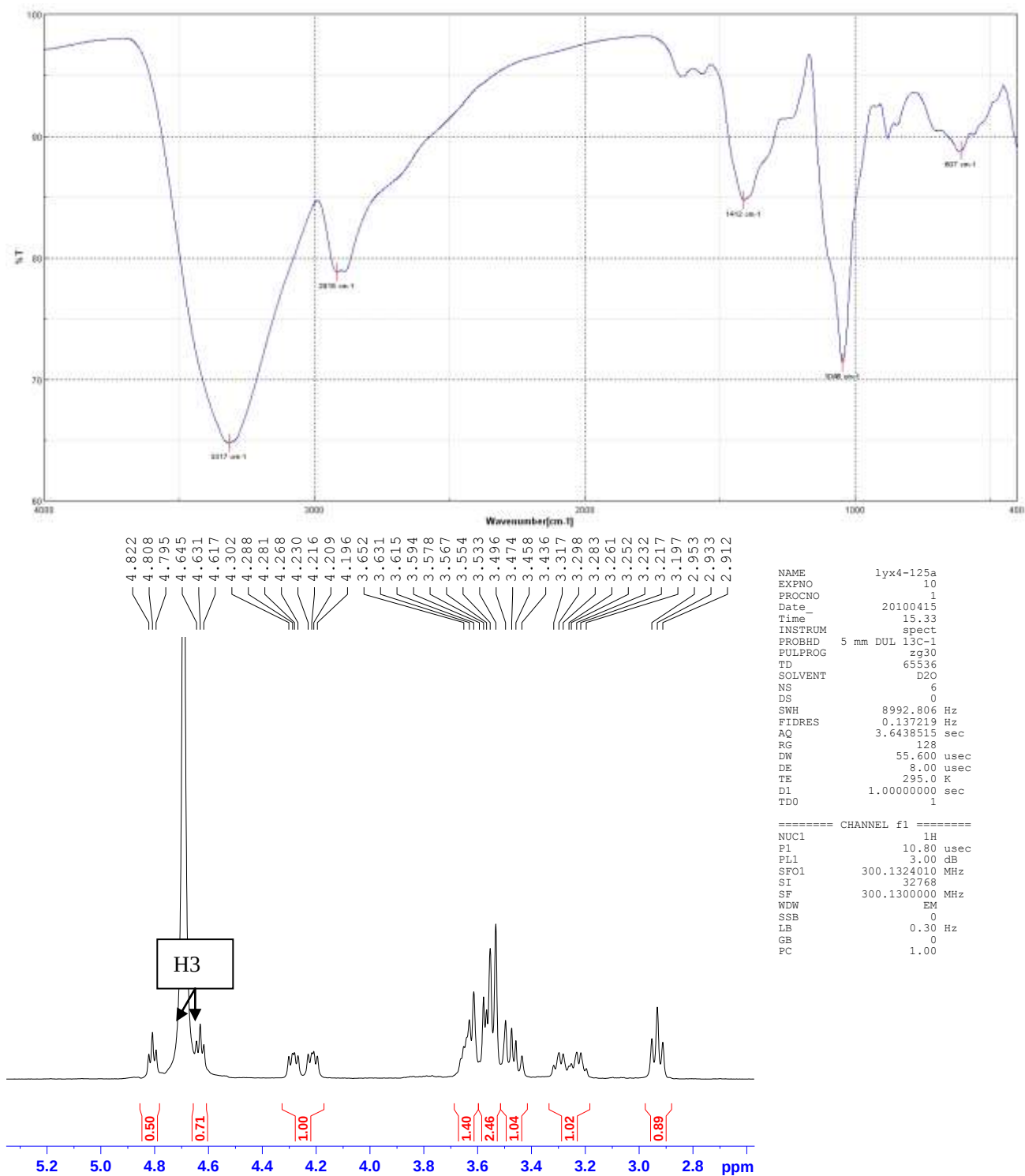
NAME          lyx4-146b
EXPNO         13
PROCNO        1
Date_         20100511
Time          17.15
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       dept135
TD            65536
SOLVENT       D2O
NS            23
DS            4
SWH           17985.611 Hz
FIDRES        0.274439 Hz
AQ            1.8219508 sec
RG            16384
DW            27.800 usec
DE            8.00 usec
TE            299.2 K
CNST2         145.0000000
D1            2.00000000 sec
D2            0.00344828 sec
D12           0.00002000 sec
TD0           1
  
```

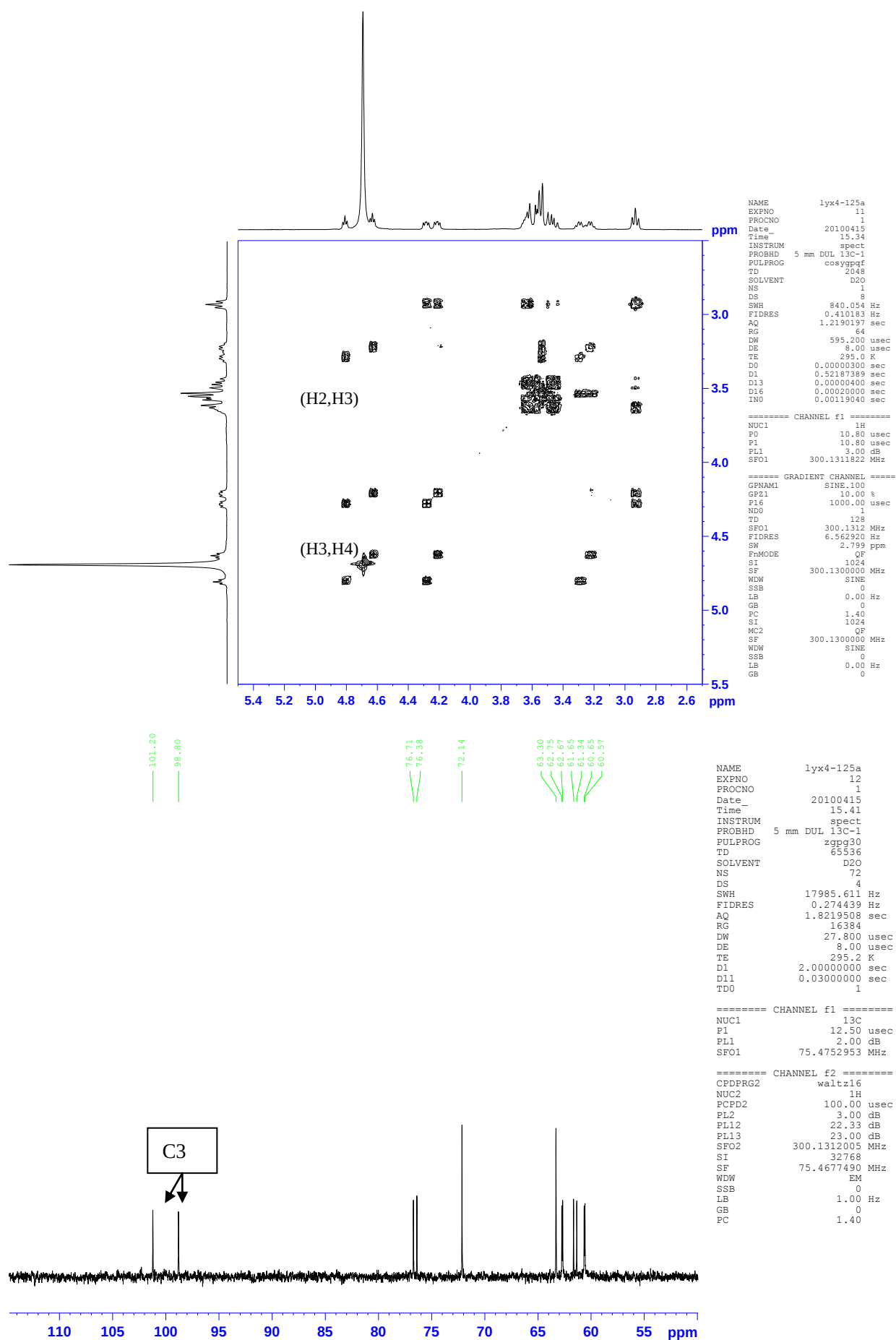
```

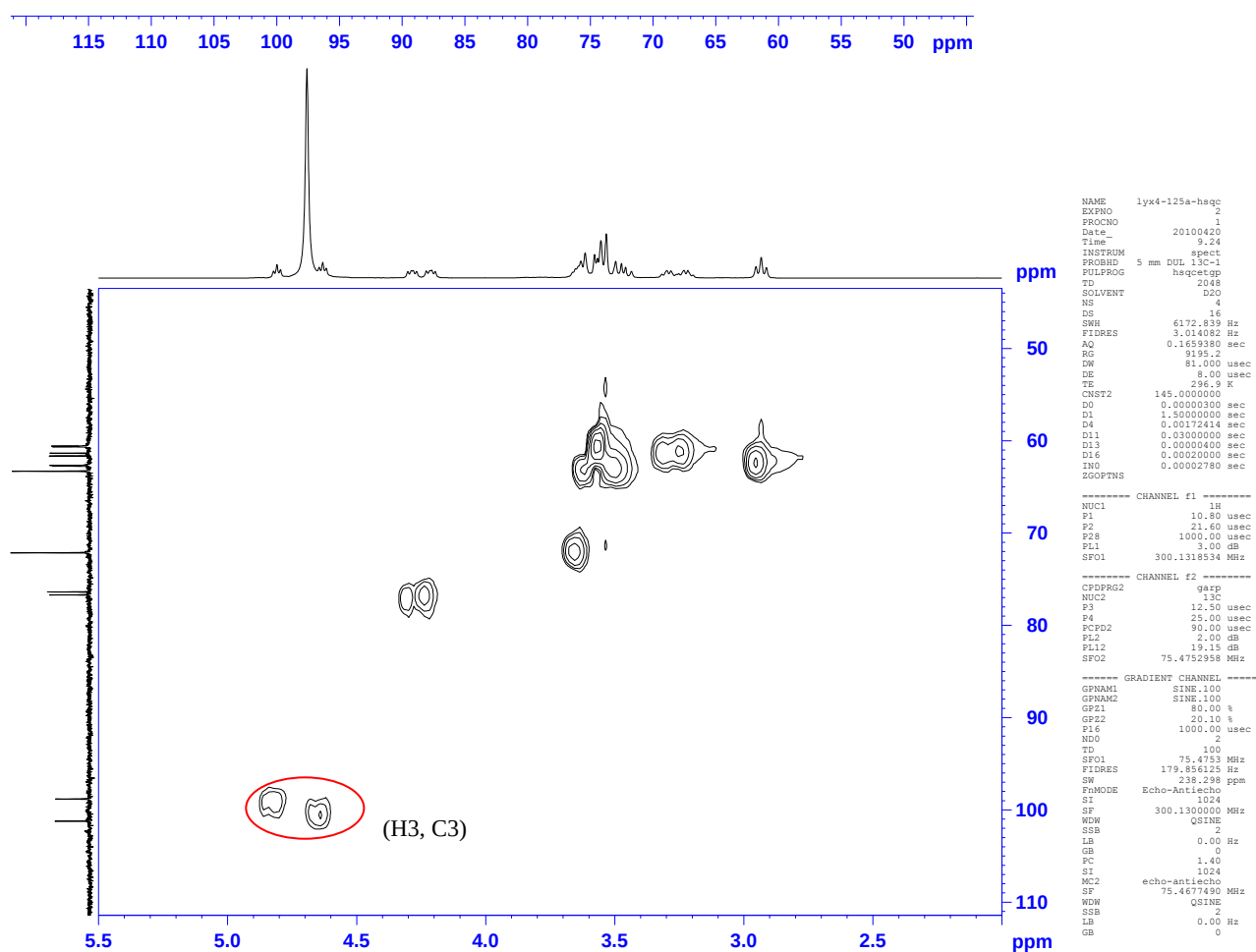
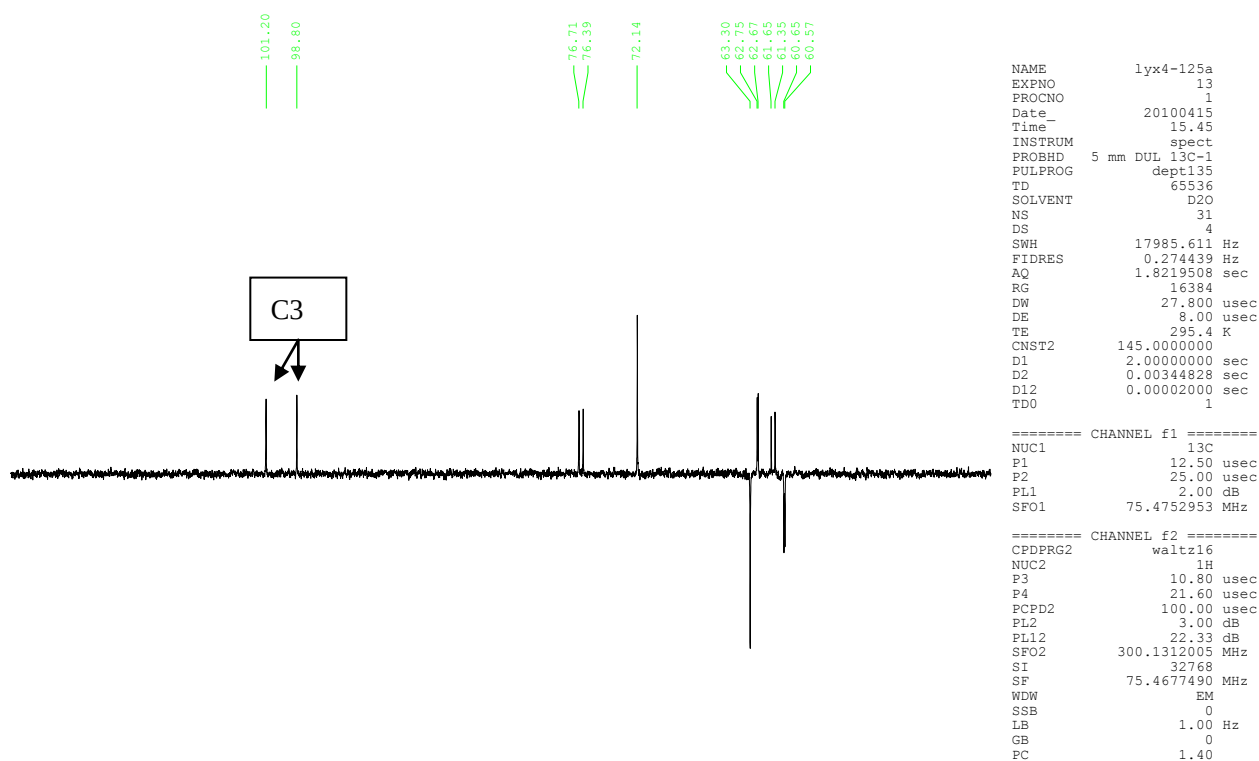
===== CHANNEL f1 =====
NUC1          13C
P1            12.50 usec
P2            25.00 usec
PL1           2.00 dB
SFO1          75.4752953 MHz
  
```

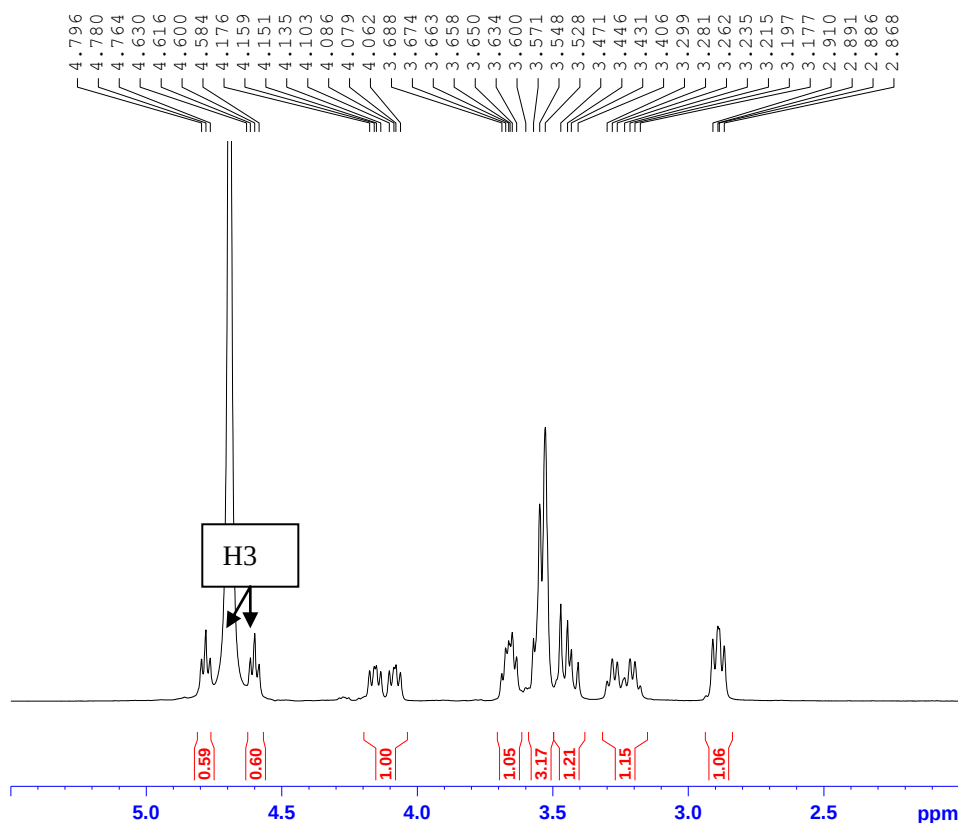
```

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
P3            10.80 usec
P4            21.60 usec
PCPD2         100.00 usec
PL2           3.00 dB
PL12          22.33 dB
SFO2          300.1312005 MHz
SI            32768
SF            75.4677490 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40
  
```





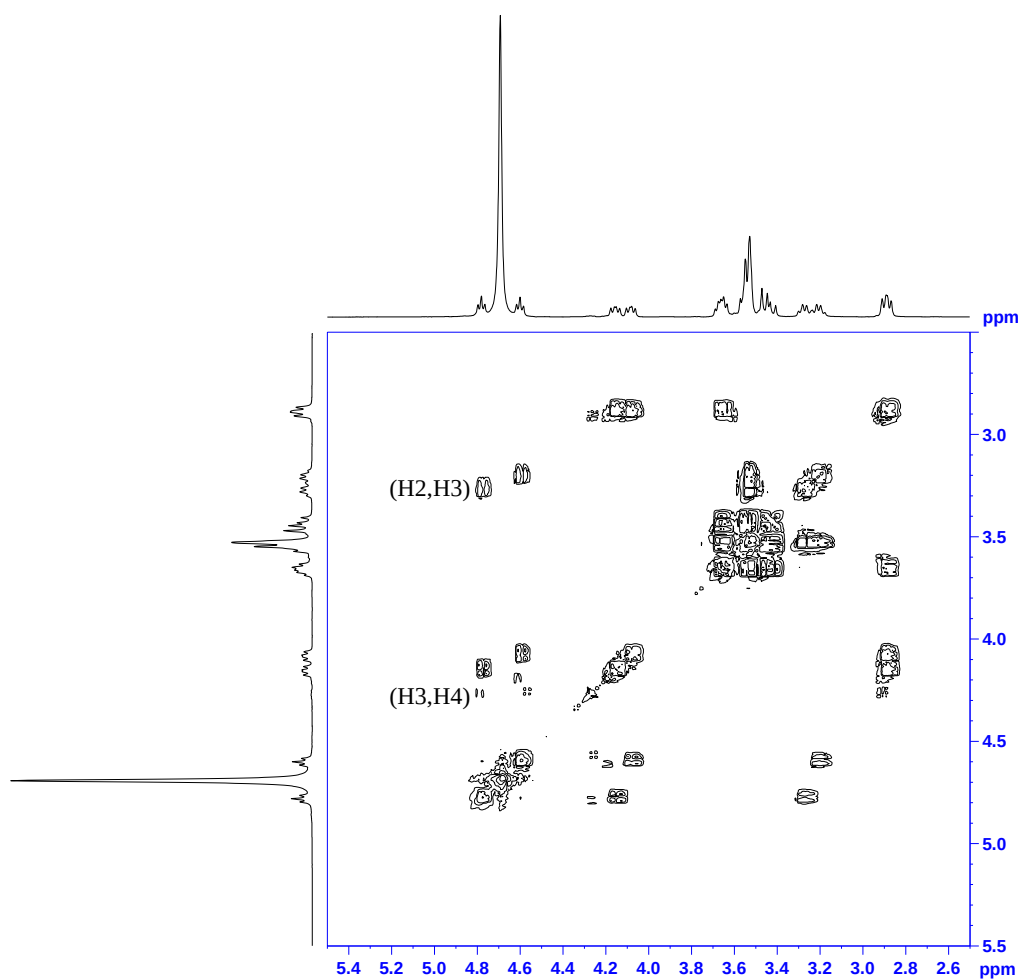




```

NAME          LYX4-125b
EXPNO         10
PROCNO        1
Date_         20100416
Time          9.41
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zg30
TD            65536
SOLVENT       D2O
NS            16
DS            0
SWH           8992.806 Hz
FIDRES        0.137219 Hz
AQ            3.6438515 sec
RG            128
DW            55.600 usec
DE            8.00 usec
TE            293.9 K
D1            1.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            10.80 usec
PL1           3.00 dB
SFO1          300.1324010 MHz
SI            32768
SF            300.1300000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

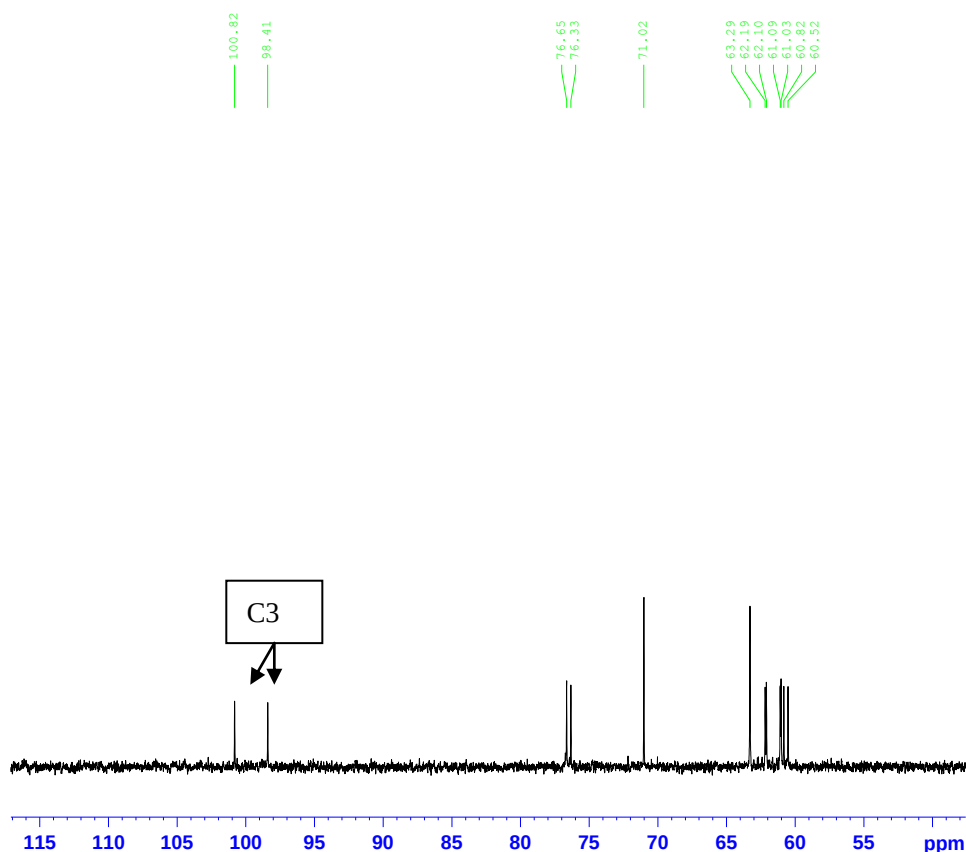


```

NAME          LYX4-125b
EXPNO         11
PROCNO        1
Date_         20100416
Time          9.41
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       cosygpgqf
TD            2048
SOLVENT       D2O
NS            1
DS            8
SWH           1755.618 Hz
FIDRES        0.837235 Hz
AQ            0.5833204 sec
RG            64
DW            284.800 usec
DE            8.00 usec
TE            293.9 K
D0            0.00000300 sec
D1            1.15880203 sec
D13           0.00000400 sec
D16           0.00020000 sec
INO           0.00056960 sec

===== CHANNEL f1 =====
NUC1          1H
P0            10.80 usec
P1            10.80 usec
PL1           3.00 dB
SFO1          300.1309041 MHz

===== GRADIENT CHANNEL =====
GPNAM1        SINE.100
GPZ1          10.00 %
F16           1000.00 usec
ND0           1
TD            128
SFO1          300.1309 MHz
FIDRES        13.715765 Hz
SW            5.850 ppm
FnMODE        QF
SI            1024
SF            300.1300000 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0
PC            1.40
SI            1024
MC2           QF
SF            300.1300000 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0
  
```



```

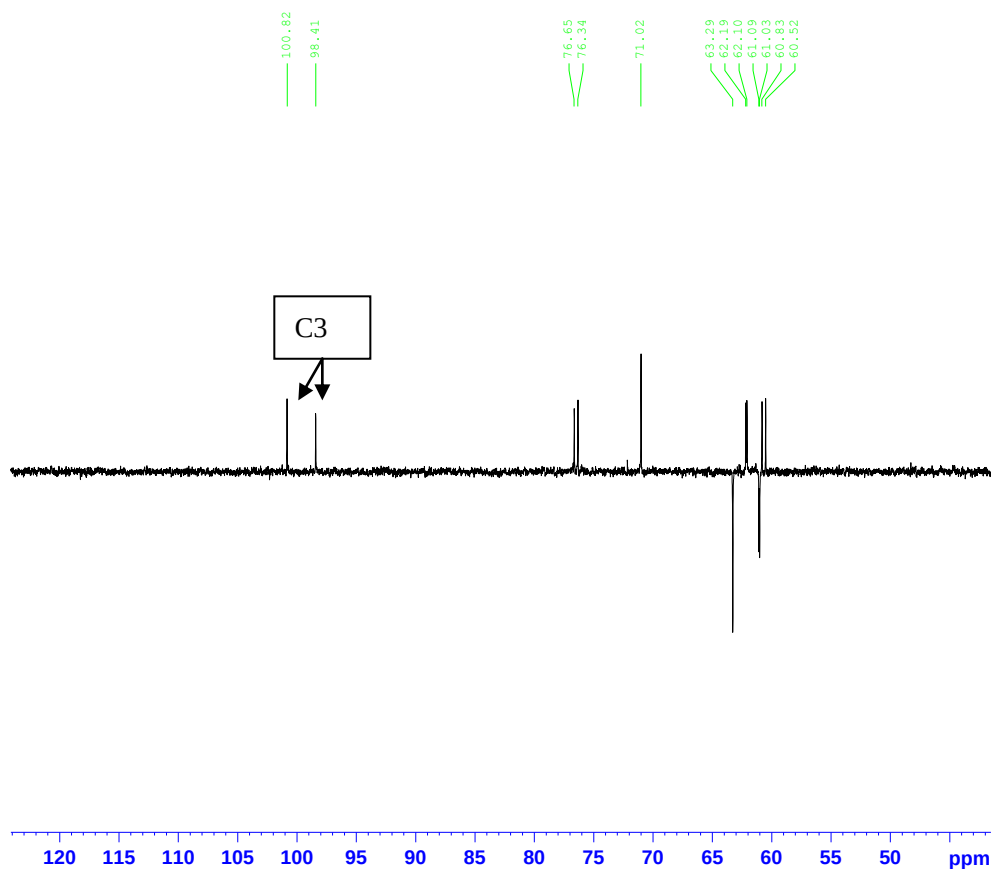
NAME      LYX4-125b
EXPNO     20
PROCNO    1
Date_     20100416
Time      13.12
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   D2O
NS         78
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         16384
DW         27.800 usec
DE         8.00 usec
TE         295.9 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1      13C
P1        12.50 usec
PL1       2.00 dB
SFO1      75.4752953 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
PCPD2     100.00 usec
PL2       3.00 dB
PL12      22.33 dB
PL13      23.00 dB
SFO2      300.1312005 MHz
SI        32768
SF        75.4677490 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
FC        1.40
  
```



```

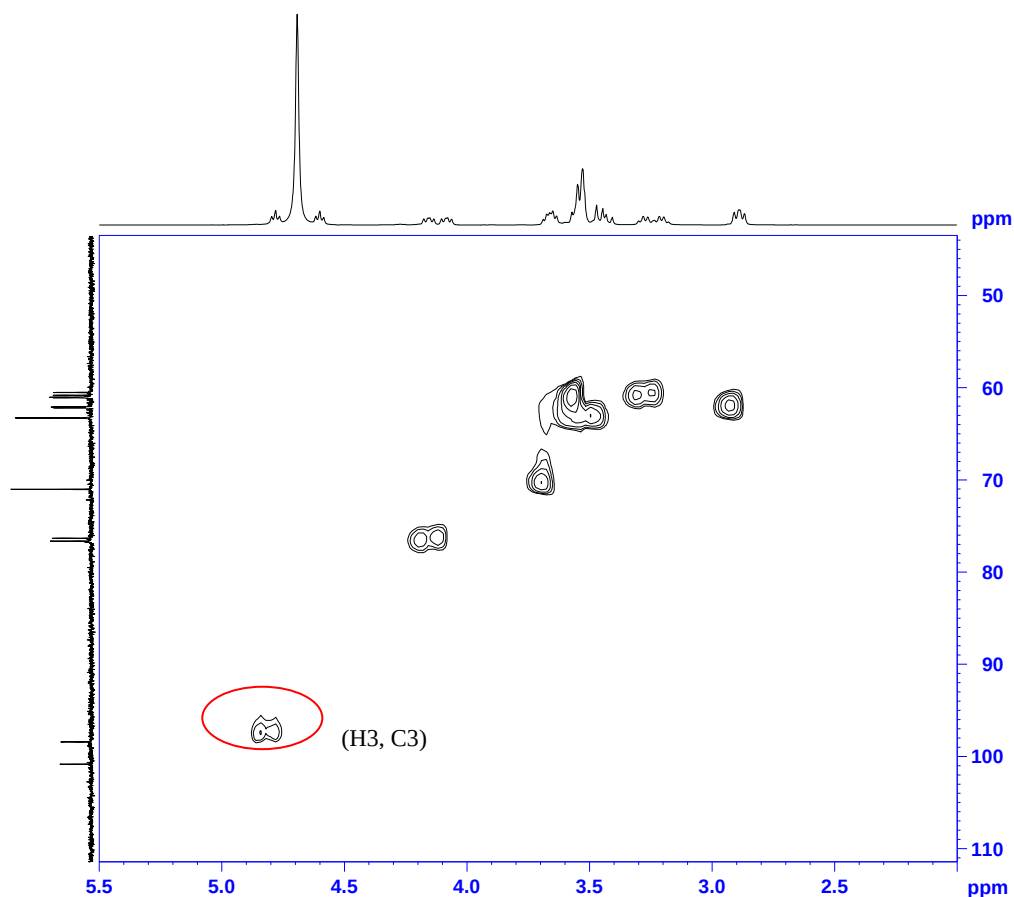
NAME      LYX4-125b
EXPNO     21
PROCNO    1
Date_     20100416
Time      13.14
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   dept135
TD         65536
SOLVENT   D2O
NS         35
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         16384
DW         27.800 usec
DE         8.00 usec
TE         295.8 K
CNST2     145.0000000
D1         2.00000000 sec
D2         0.00344828 sec
D12        0.00002000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1      13C
P1        12.50 usec
P2        25.00 usec
PL1       2.00 dB
SFO1      75.4752953 MHz
  
```

```

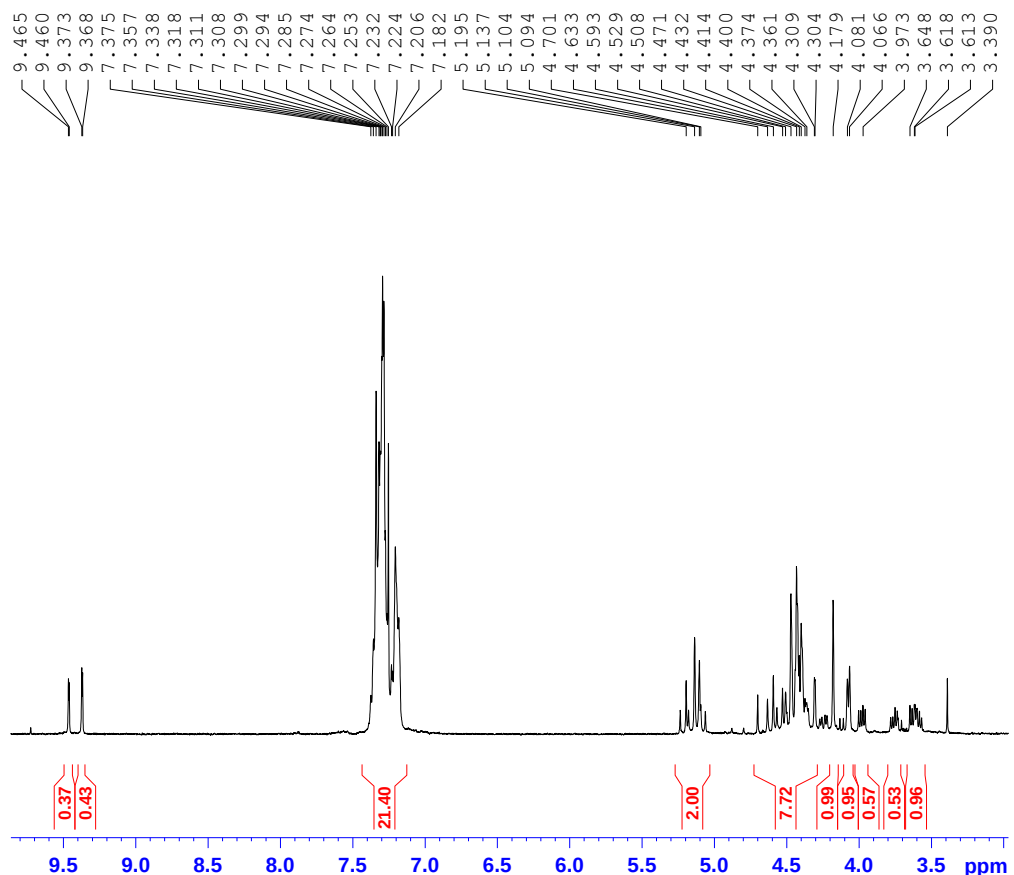
===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
F3        10.80 usec
P4        21.60 usec
PCPD2     100.00 usec
PL2       3.00 dB
PL12      22.33 dB
SFO2      300.1312005 MHz
SI        32768
SF        75.4677490 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
FC        1.40
  
```



```

NAME      lyx4-125b-hsac
EXPNO     1
PROCNO    1
Date_     20100416
Time      13.16
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   D2O
NS         2
DS         0
SWH        6172.839 Hz
FIDRES     0.1659380 sec
AQ         9195.2
RG         81.000
DE         8.00 usec
TE         295.8 K
CNET2     145.0000000
D0         0.0000300 sec
D1         1.5000000 sec
D4         0.0017244 sec
D11        0.0300000 sec
D13        0.0000040 sec
D16        0.0002000 sec
INO        0.00002780 sec
===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
P2         21.60 usec
P2B        1000.00 usec
PL1        3.00 dB
PL2        3.00 dB
SFO1       300.1318534 MHz
===== CHANNEL f2 =====
CPDPRG2    gpg30
NUC2       13C
P3         12.50 usec
P4         25.00 usec
PCPD2      90.00 usec
PL2        2.00 dB
PL12       19.15 dB
SFO2       75.4752958 MHz
===== GRADIENT CHANNEL =====
GPNAM1     SINE.100
GPNAM2     SINE.100
GP21       80.00 %
GP22       20.10 %
P16        1000.00 usec
ND0        2
TD         11
SFO1       75.4753 MHz
FIDRES     151.139603 Hz
SW         238.238 ppm
FMODE      Echo-Antiecho
SI         1024
SF         300.1300000 MHz
WDW         QSINE
SSB         2
LB         0.00 Hz
GB         0
SI         1024
PC         1.40
MC2        echo-antiecho
SF         75.4677490 MHz
WDW         QSINE
SSB         2
LB         0.00 Hz
GB         0

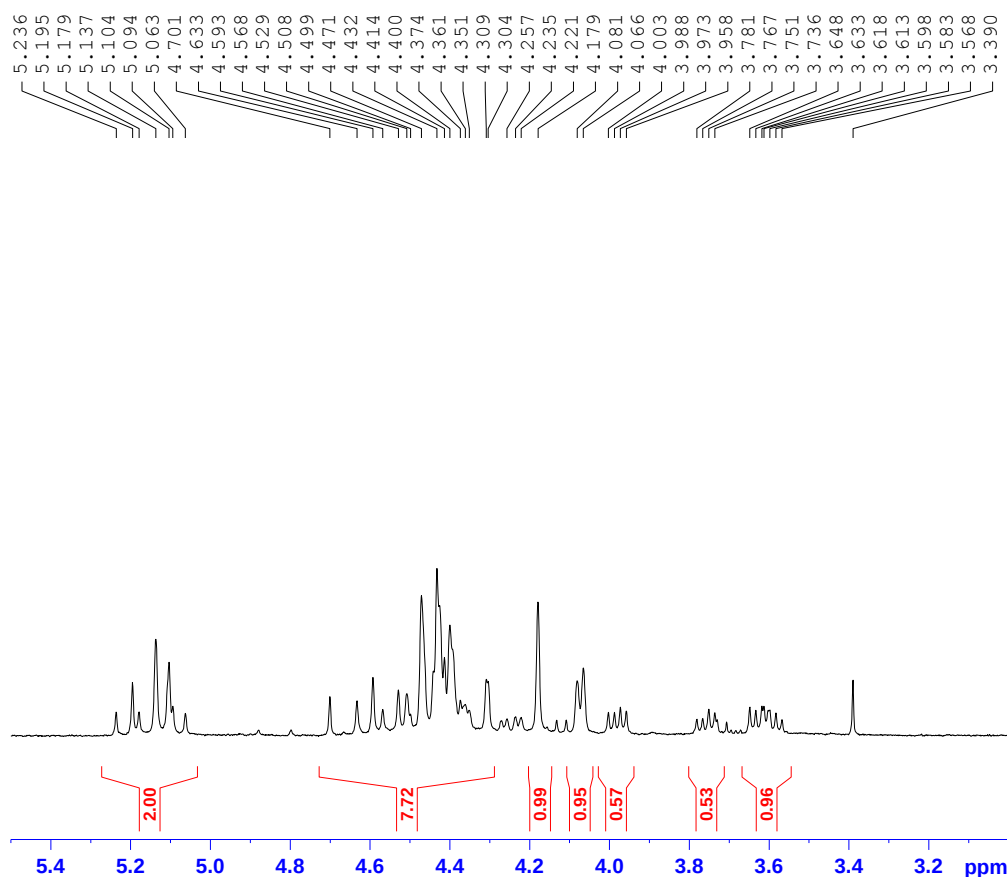
```



```

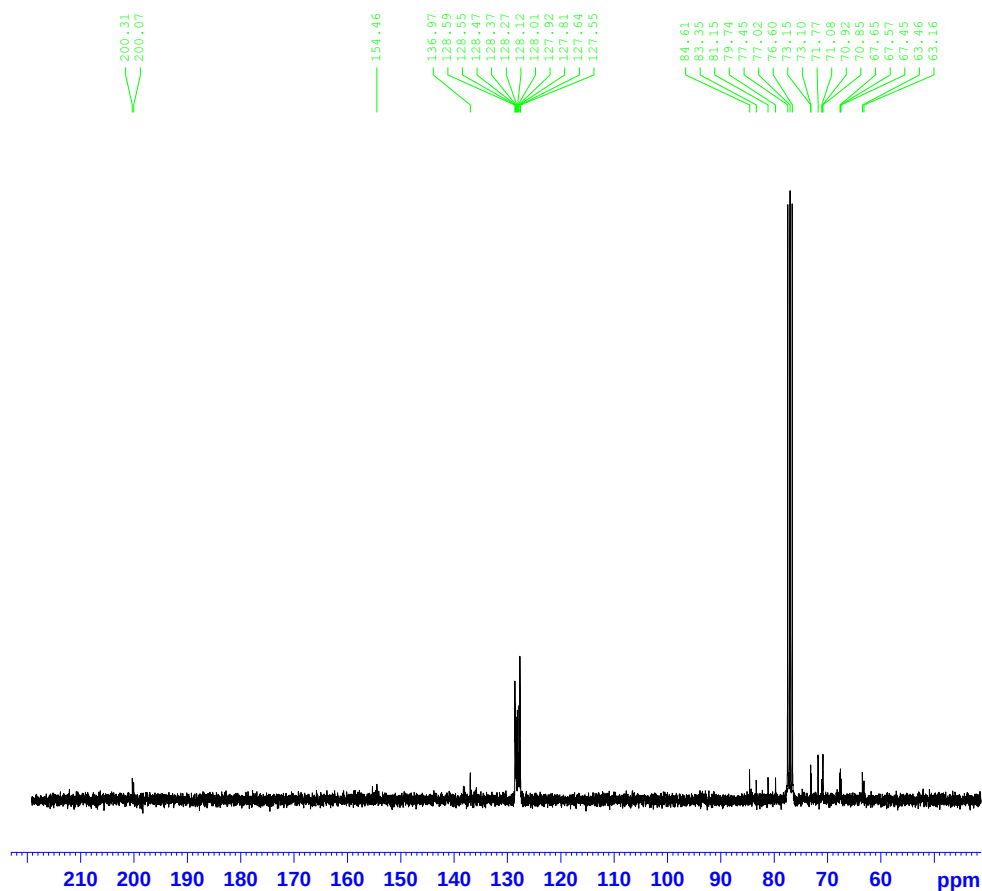
NAME      lyx4-184
EXPNO     10
PROCNO    1
Date_     20101108
Time      9.23
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         2
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         322.5
DE         55.600 usec
TE         298.2 K
D1         1.00000000 sec
TD0        1
===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1324010 MHz
SI         32768
SF         300.1300079 MHz
WDW         EM
SSB         0
LB         0.30 Hz
GB         0
PC         1.00

```



NAME lyx4-184
EXPNO 10
PROCNO 1
Date_ 20101108
Time 9.23
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 2
DS 0
SWH 8992.806 Hz
FIDRES 0.137219 Hz
AQ 3.6438515 sec
RG 322.5
DW 55.600 usec
DE 8.00 usec
TE 298.2 K
D1 1.00000000 sec
TD0 1

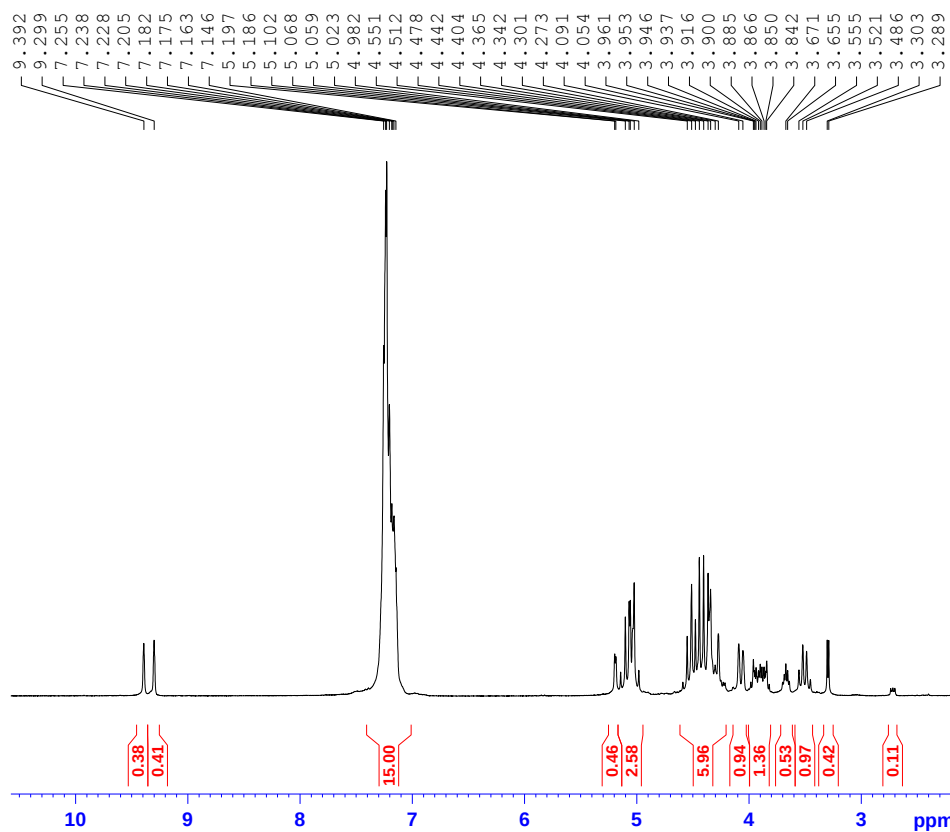
===== CHANNEL f1 =====
NUC1 1H
P1 10.80 usec
PL1 3.00 dB
SFO1 300.1324010 MHz
SI 32768
SF 300.1300079 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



NAME lyx4-184
EXPNO 11
PROCNO 1
Date_ 20101108
Time 9.27
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 411
DS 4
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 5160.6
DW 27.800 usec
DE 8.00 usec
TE 298.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 12.50 usec
PL1 2.00 dB
SFO1 75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 3.00 dB
PL12 22.33 dB
PL13 23.00 dB
SFO2 300.1312005 MHz
SI 32768
SF 75.4677490 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

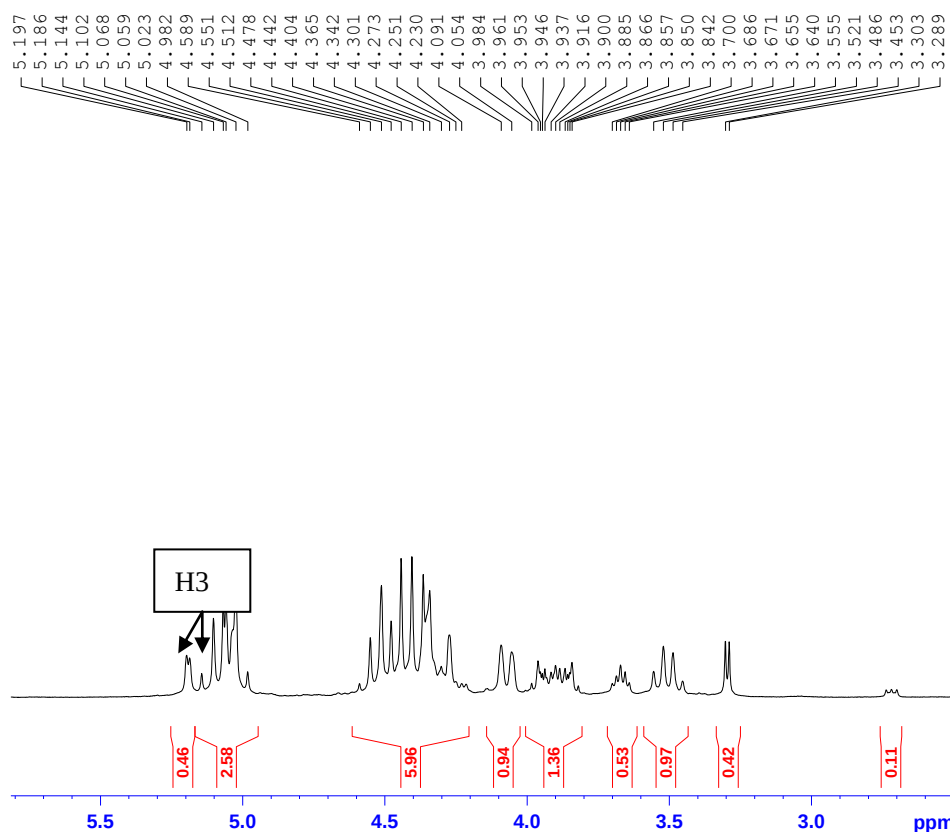


```

NAME      1yx4-135a
EXPNO     10
PROCNO    1
Date_     20100424
Time      15.45
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         3
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         71.8
DW         55.600 usec
DE         8.00 usec
TE         299.7 K
D1         1.00000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1324010 MHz
SI         32768
SF         300.1300401 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
  
```

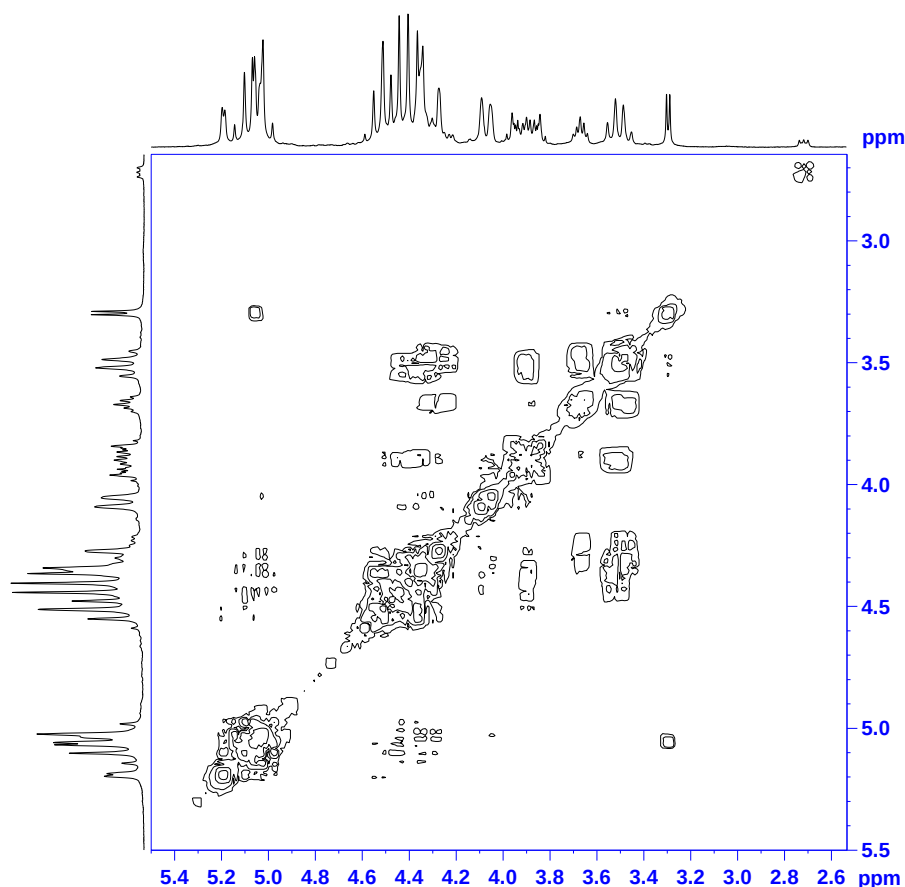


```

NAME      1yx4-135a
EXPNO     10
PROCNO    1
Date_     20100424
Time      15.45
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         3
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         71.8
DW         55.600 usec
DE         8.00 usec
TE         299.7 K
D1         1.00000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1324010 MHz
SI         32768
SF         300.1300401 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
  
```



```

NAME      lyx4-135a
EXPNO     21
PROCNO    1
Date_     20100427
Time      9.14
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   cosygpcpf
TD         2048
SOLVENT   CDCl3
NS         1
DS         8
SWH        3306.878 Hz
FIDRES     1.614687 Hz
AQ         0.3097076 sec
RG         45.3
DW         151.200 usec
DE         8.00 usec
TE         295.7 K
D0         0.00000300 sec
D1         1.43323398 sec
D13        0.00000400 sec
D16        0.00020000 sec
INO        0.00030240 sec
  
```

```

===== CHANNEL f1 =====
NUC1       1H
P0         10.80 usec
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1314834 MHz
  
```

```

===== GRADIENT CHANNEL =====
GP21       SINE.100
GP21       10.00 %
P16        1000.00 usec
ND0        1
TD         128
SFO1       300.1315 MHz
FIDRES     25.834988 Hz
SW         11.018 ppm
FnMODE     QF
SI         1024
SF         300.1300403 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
PC         1.40
SI         1024
MC2        QF
SF         300.1300403 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
  
```

198.90
198.79

154.96
154.11
137.89
137.70
136.32
136.29
135.83
135.83
128.87
128.49
128.44
128.32
128.30
128.22
125.91
125.91
127.86
127.81
127.76
127.67
102.05
95.75
94.16
93.36
92.18
83.50
83.09
82.49
82.08
77.54
76.63
76.63
73.33
73.26
72.23
72.18
70.79
67.87
67.16
67.16
67.03
66.50
66.37
65.73
63.99
63.70

```

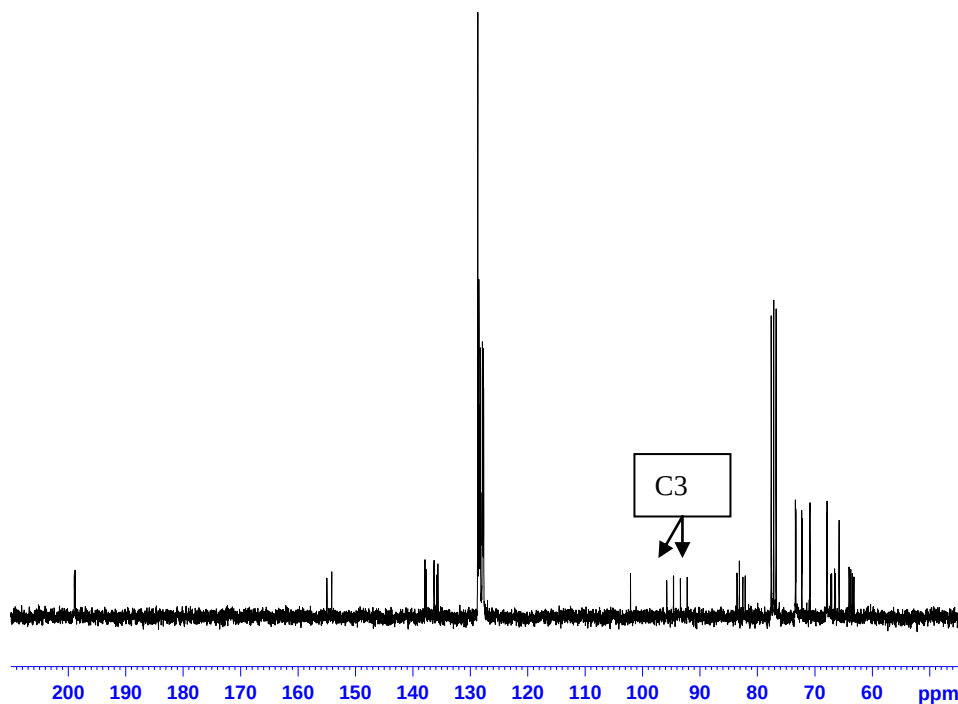
NAME      lyx4-135a
EXPNO     22
PROCNO    1
Date_     20100427
Time      9.20
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         88
DS         4
SWH        17985.611 Hz
FIDRES     0.274439 Hz
AQ         1.8219508 sec
RG         4597.6
DW         27.800 usec
DE         8.00 usec
TE         295.8 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
  
```

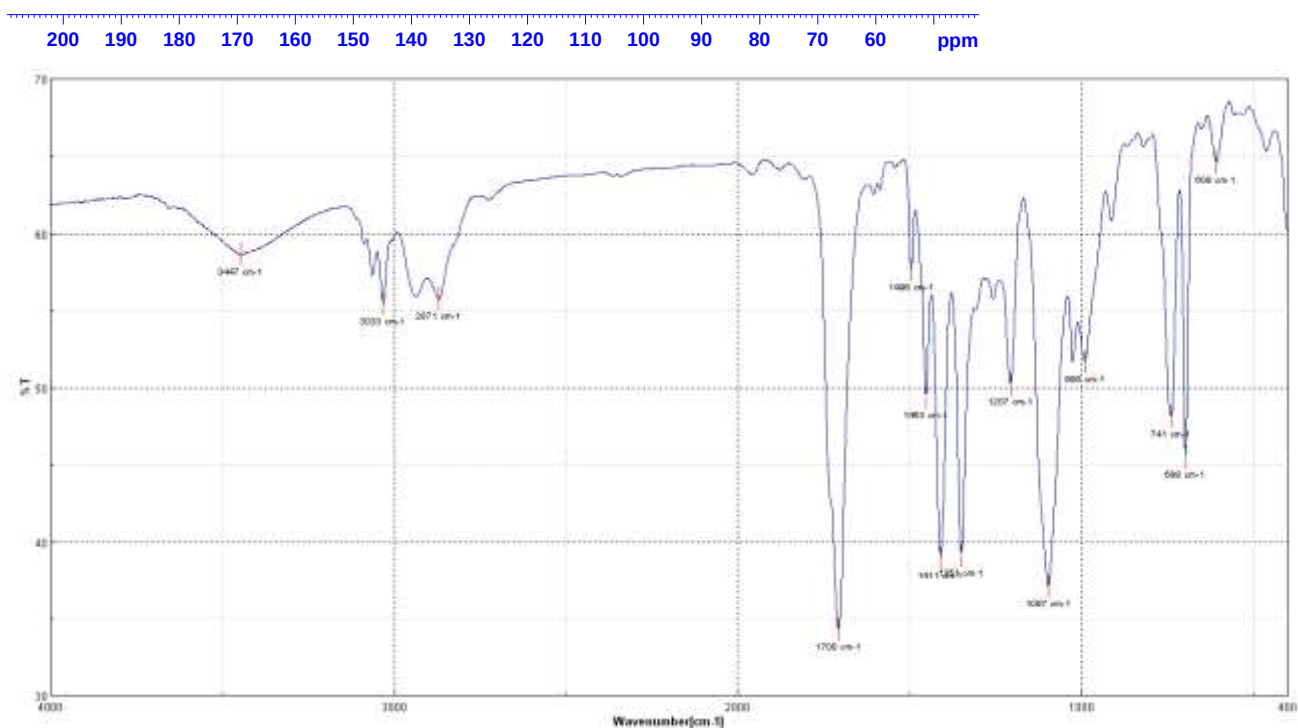
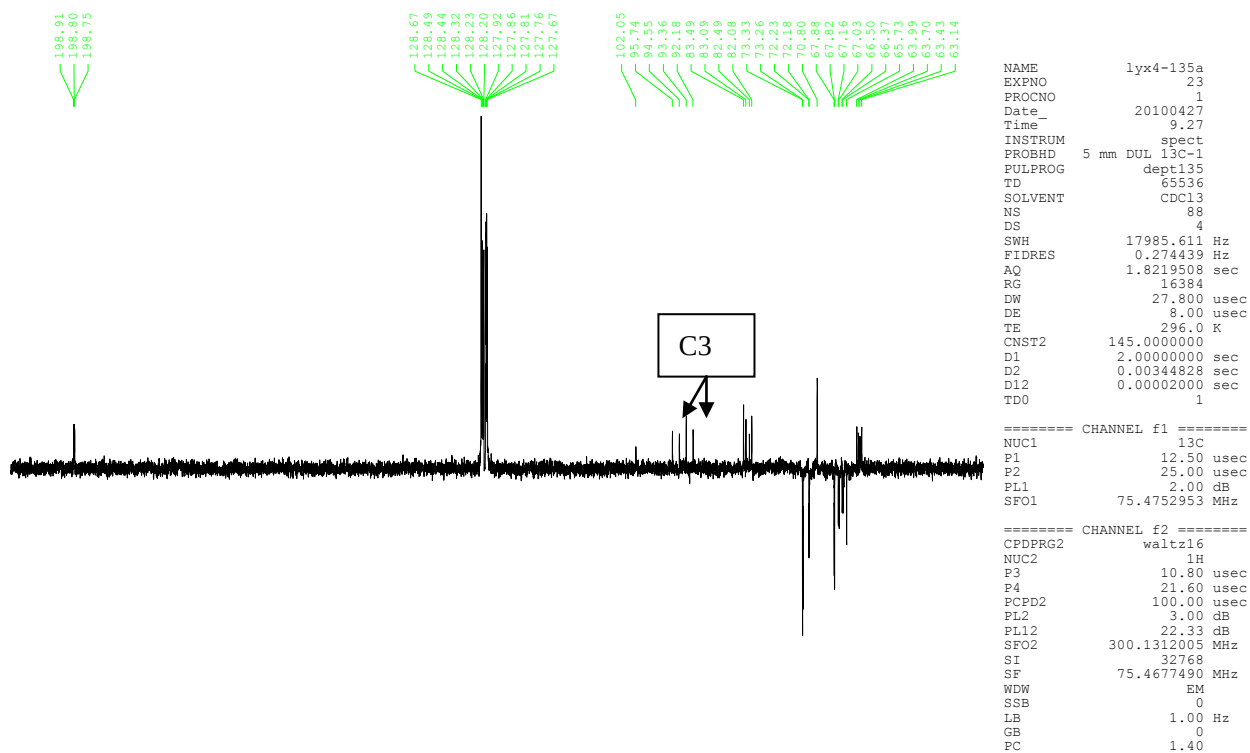
```

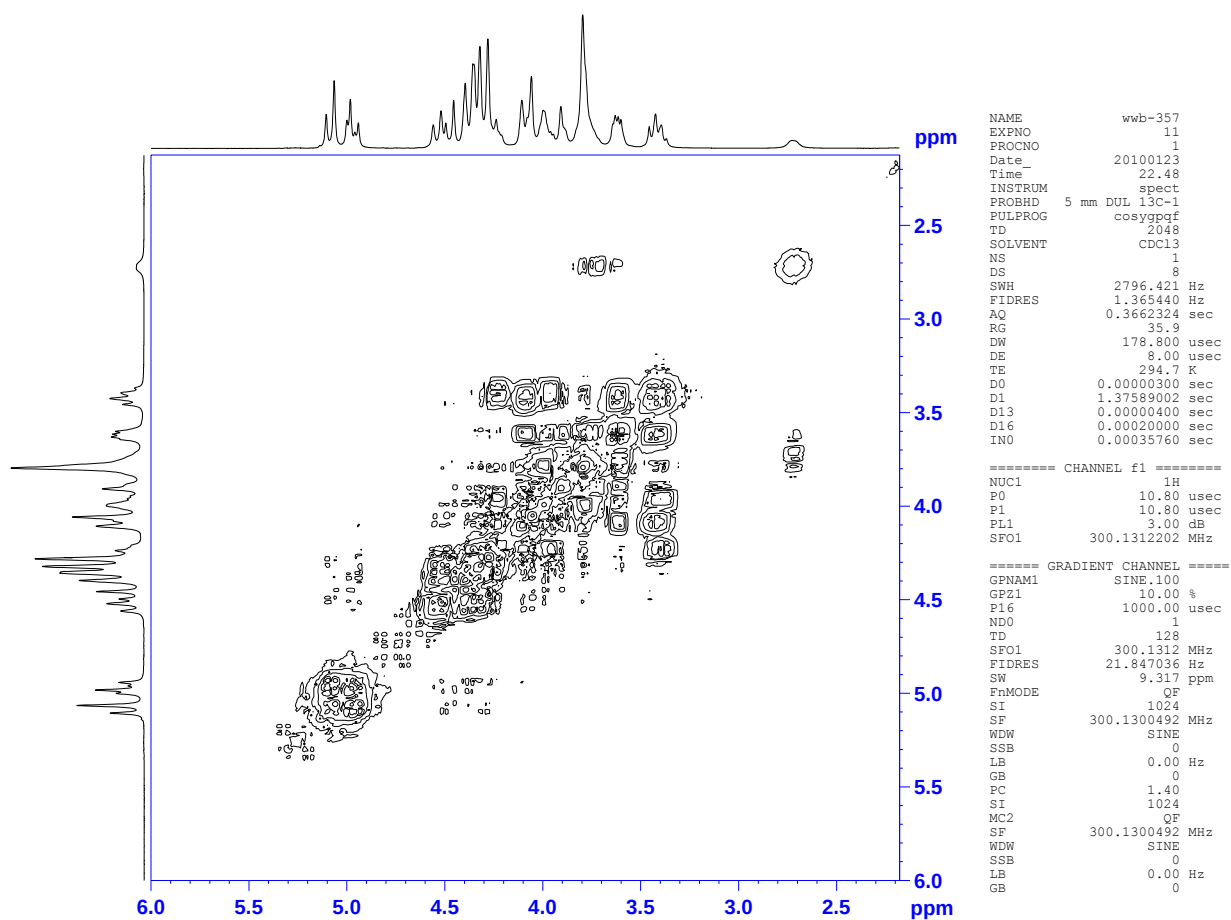
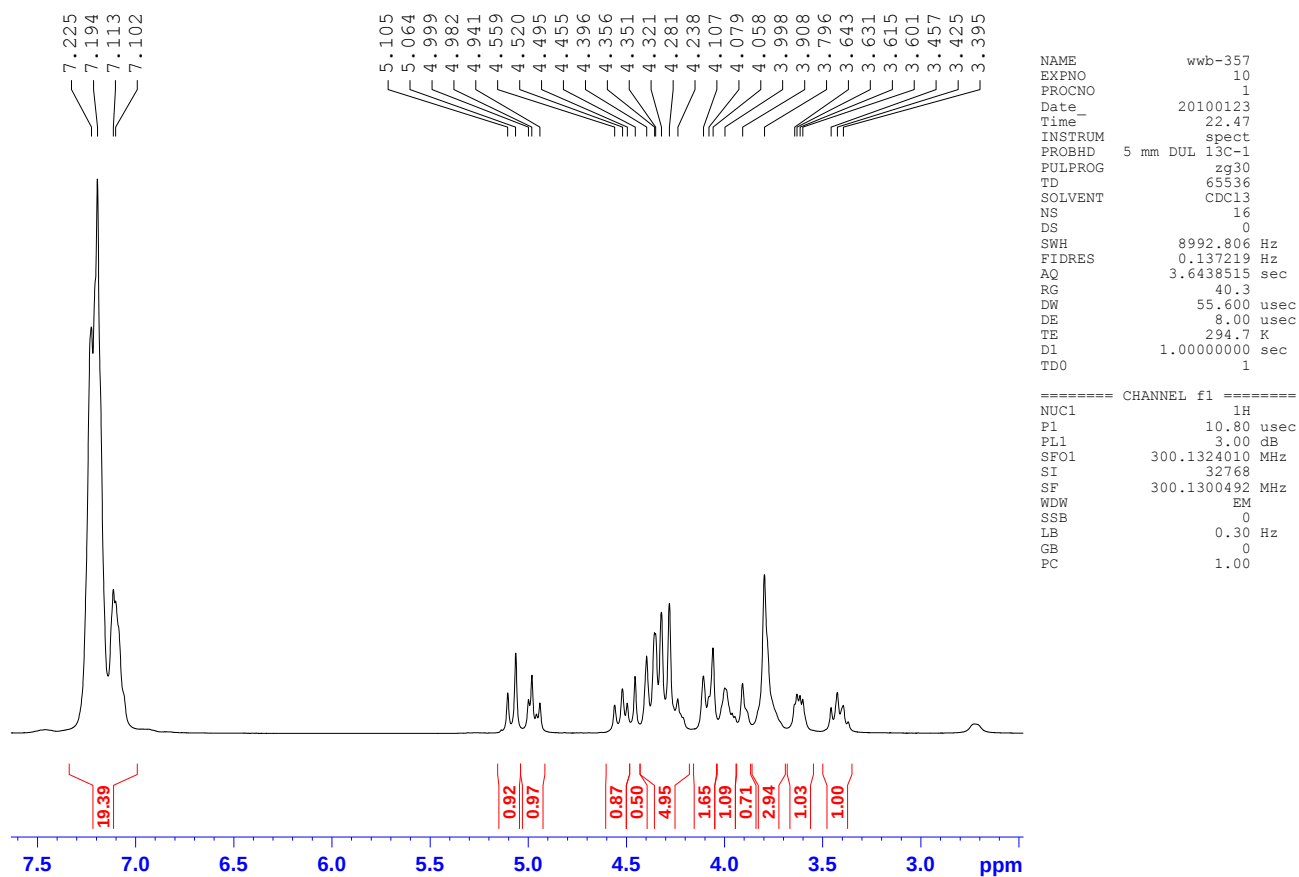
===== CHANNEL f1 =====
NUC1       13C
P1         12.50 usec
PL1        2.00 dB
SFO1       75.4752953 MHz
  
```

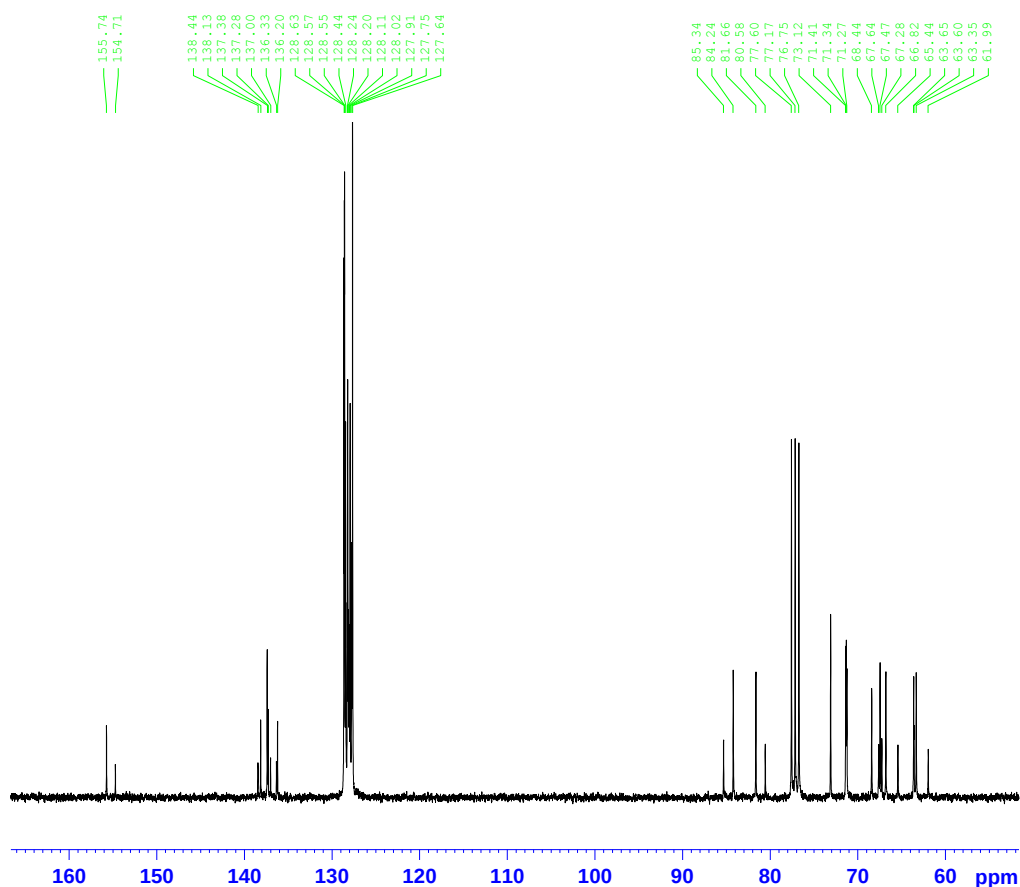
```

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      100.00 usec
PL2         3.00 dB
PL12       22.33 dB
PL13       23.00 dB
SFO2       300.1312005 MHz
SI         32768
SF         75.4677490 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
  
```







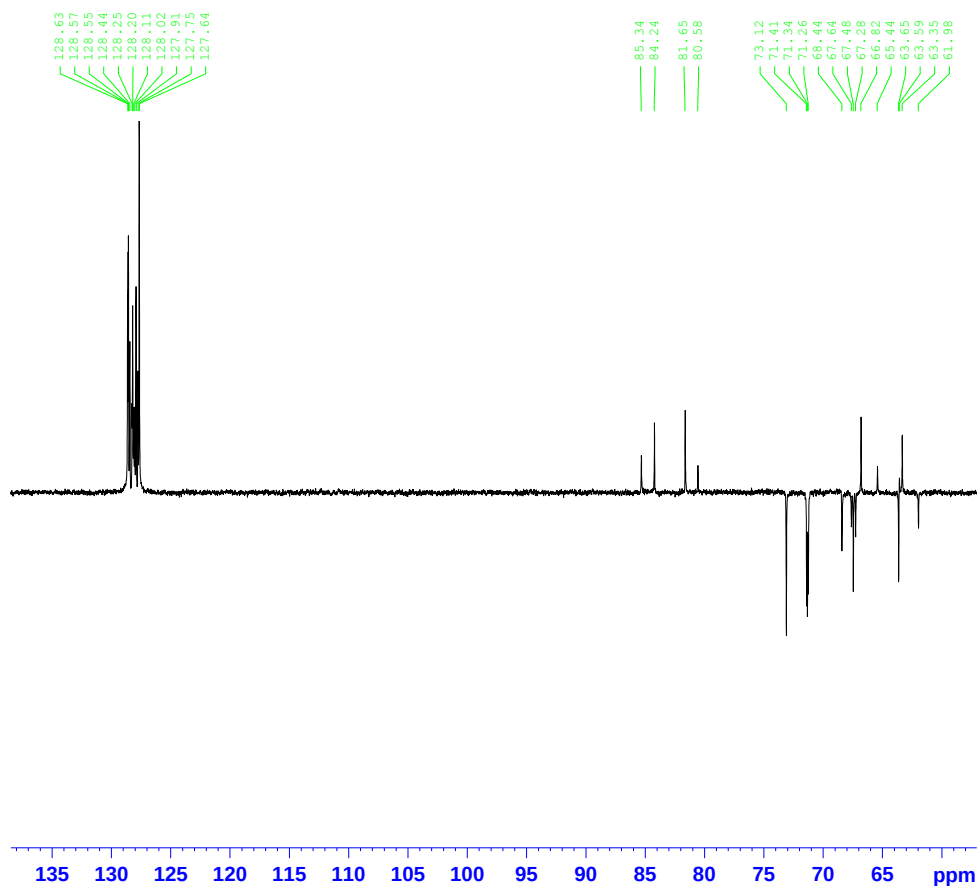


```

NAME          wwdb-357
EXPNO         12
PROCNO        1
Date_         20100123
Time_         22.56
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zgpg30
TD            65536
SOLVENT       CDC13
NS            319
DS            4
SWH           17985.611 Hz
FIDRES        0.274439 Hz
AQ            1.8219508 sec
RG            16384
DW            27.800 usec
DE            8.00 usec
TE            294.9 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            12.50 usec
PL1           2.00 dB
SFO1          75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         100.00 usec
PL2           3.00 dB
PL12          22.33 dB
PL13          23.00 dB
SFO2          300.1312005 MHz
SI            32768
SF            75.4677490 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40
  
```

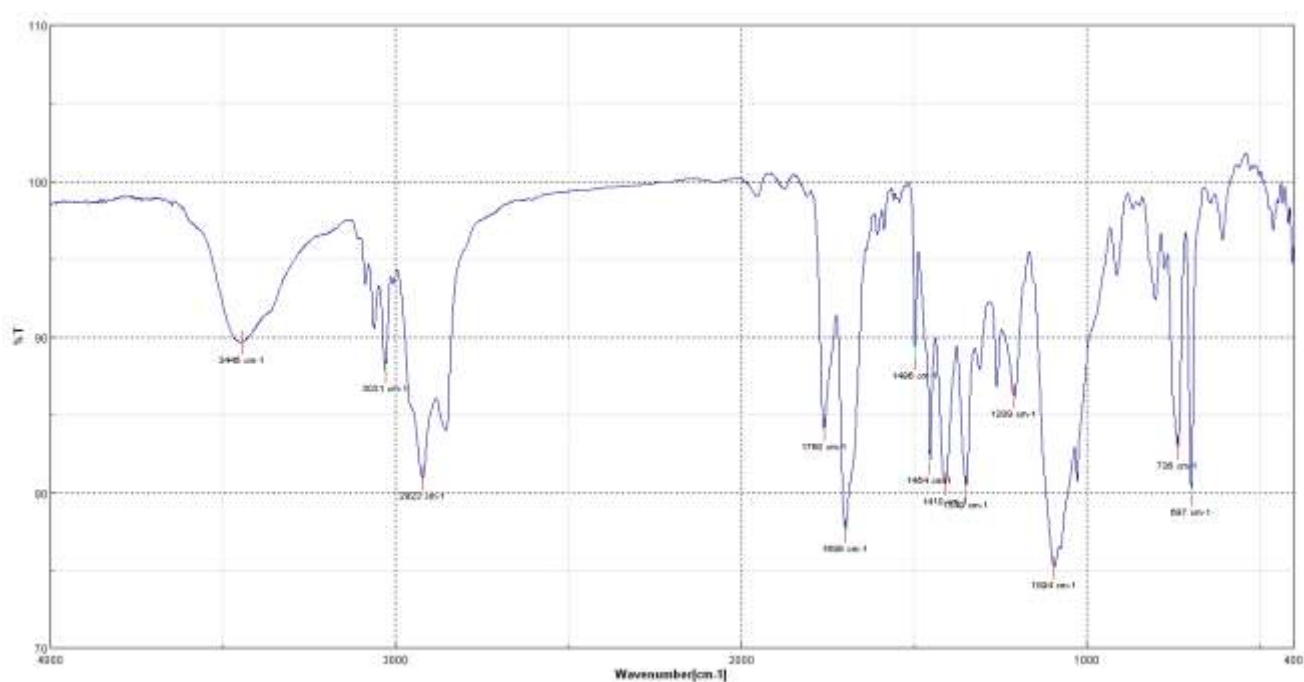
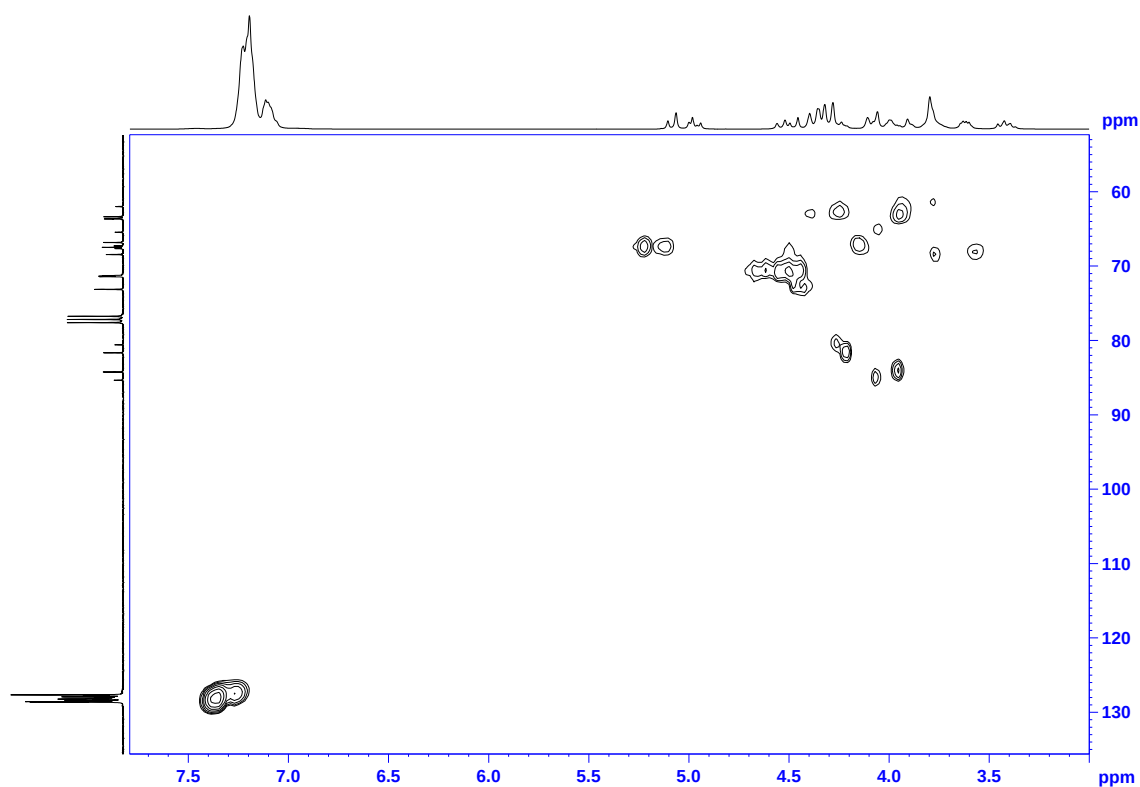


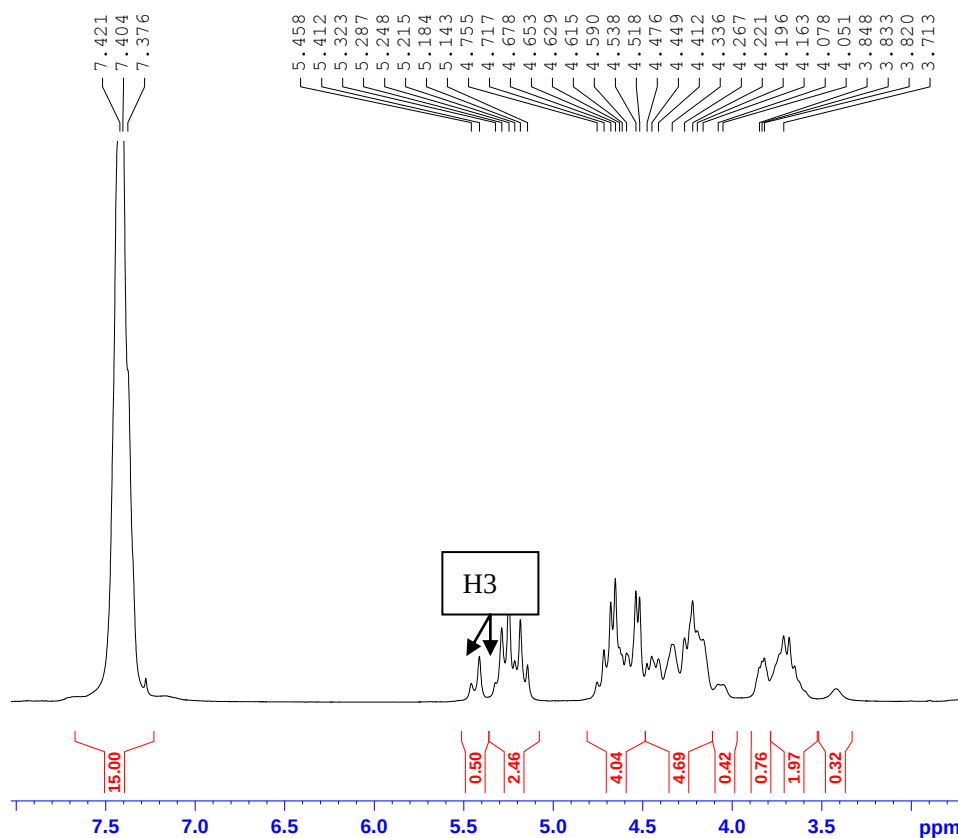
```

NAME          wwdb-357
EXPNO         13
PROCNO        1
Date_         20100123
Time_         23.17
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       dept135
TD            65536
SOLVENT       CDC13
NS            135
DS            4
SWH           17985.611 Hz
FIDRES        0.274439 Hz
AQ            1.8219508 sec
RG            16384
DW            27.800 usec
DE            8.00 usec
TE            294.8 K
CNST2         145.0000000
D1            2.00000000 sec
D2            0.00344828 sec
D12           0.00002000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            12.50 usec
P2            25.00 usec
PL1           2.00 dB
SFO1          75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
P3            10.80 usec
P4            21.60 usec
PCPD2         100.00 usec
PL2           3.00 dB
PL12          22.33 dB
SFO2          300.1312005 MHz
SI            32768
SF            75.4677490 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40
  
```



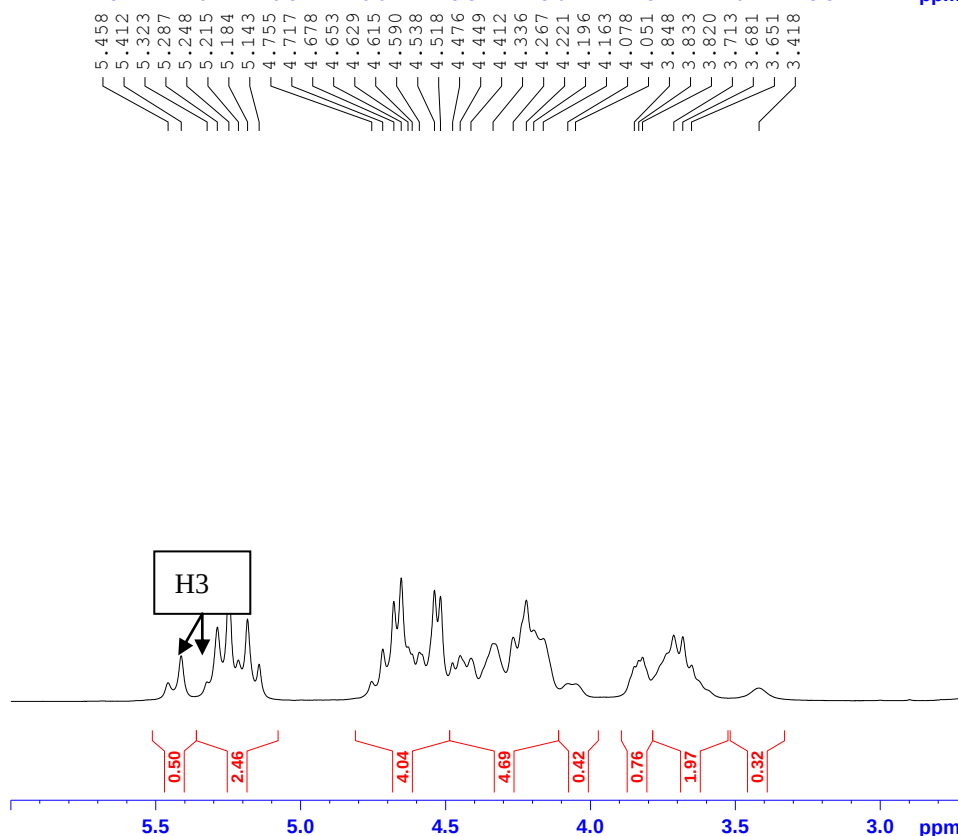


```

NAME      lyx4-123
EXPNO     10
PROCNO    1
Date_     20100409
Time      22.16
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDC13
NS         3
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         22.6
DW         55.600 usec
DE         8.00 usec
TE         297.2 K
D1         1.00000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1324010 MHz
SI         32768
SF         300.1300000 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
  
```

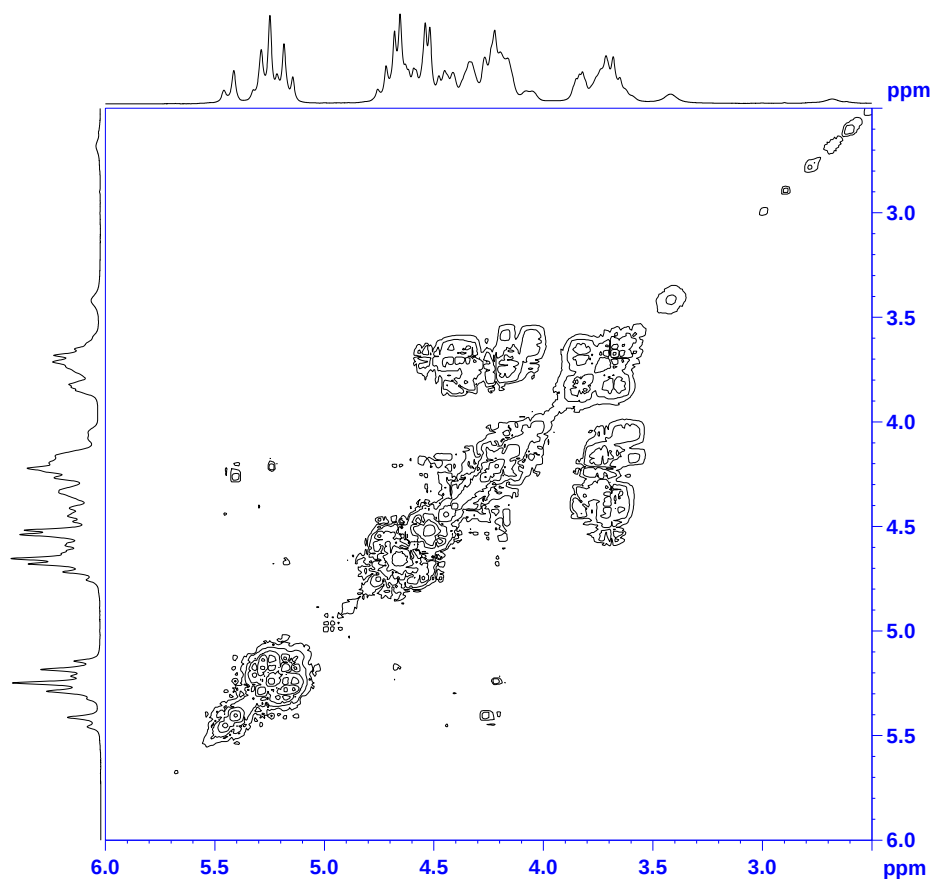


```

NAME      lyx4-123
EXPNO     10
PROCNO    1
Date_     20100409
Time      22.16
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zg30
TD         65536
SOLVENT   CDC13
NS         3
DS         0
SWH        8992.806 Hz
FIDRES     0.137219 Hz
AQ         3.6438515 sec
RG         22.6
DW         55.600 usec
DE         8.00 usec
TE         297.2 K
D1         1.00000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       1H
P1         10.80 usec
PL1        3.00 dB
SFO1       300.1324010 MHz
SI         32768
SF         300.1300000 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
  
```



```

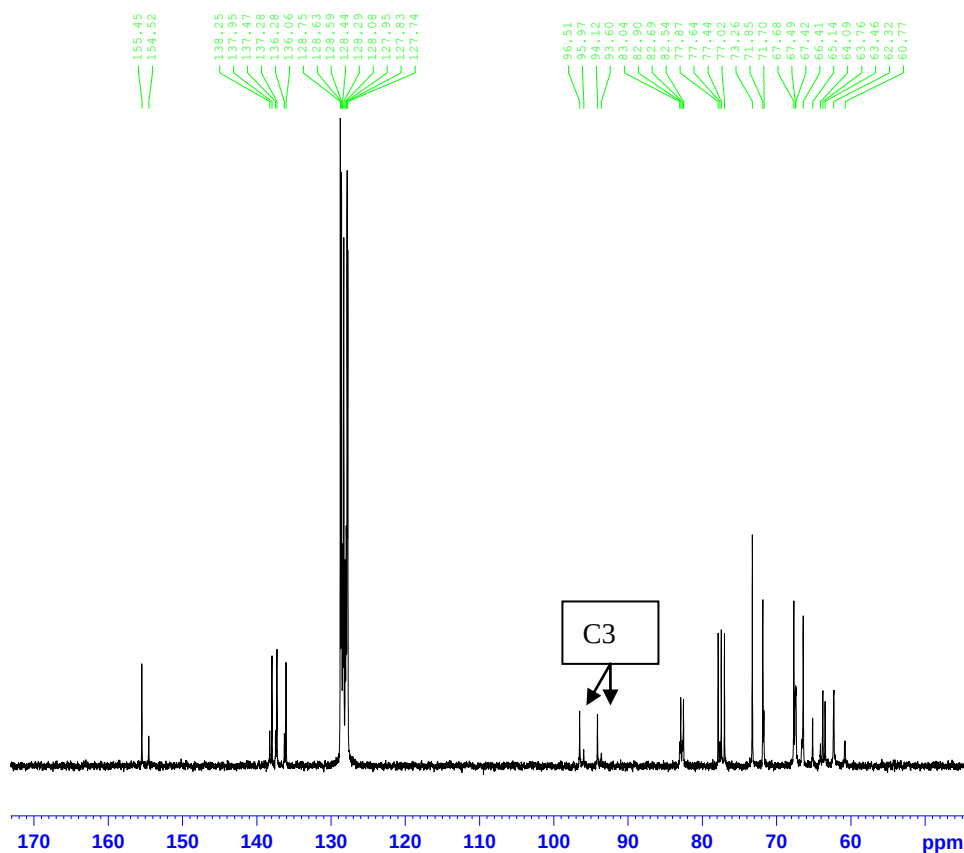
NAME      lyx4-123
EXPNO    11
PROCNO    1
Date_     20100409
Time      22.16
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   cosygpgqf
TD        2048
SOLVENT   CDCl3
NS         1
DS         8
SWH       2540.650 Hz
FIDRES    1.240552 Hz
AQ        0.4030964 sec
RG        11.3
DW        196.800 usec
DE        8.00 usec
TE        297.1 K
D0        0.00000300 sec
D1        1.33902597 sec
D13       0.00000400 sec
D16       0.00020000 sec
INO       0.00039360 sec
  
```

```

===== CHANNEL f1 =====
NUC1      1H
P0        10.80 usec
P1        10.80 usec
PL1       3.00 dB
SFO1      300.1313854 MHz
  
```

```

===== GRADIENT CHANNEL =====
GPNAM1    SINE.100
GP21      10.00 %
P16       1000.00 usec
ND0       1
TD        128
SFO1      300.1314 MHz
FIDRES    19.848831 Hz
SW        8.465 ppm
FnMODE    QF
SI        1024
SF        300.1300000 MHz
WDW       SINE
SSB       0
LB        0.00 Hz
GB        0
PC        1.40
SI        1024
MC2       QF
SF        300.1300000 MHz
WDW       SINE
SSB       0
LB        0.00 Hz
GB        0
  
```



```

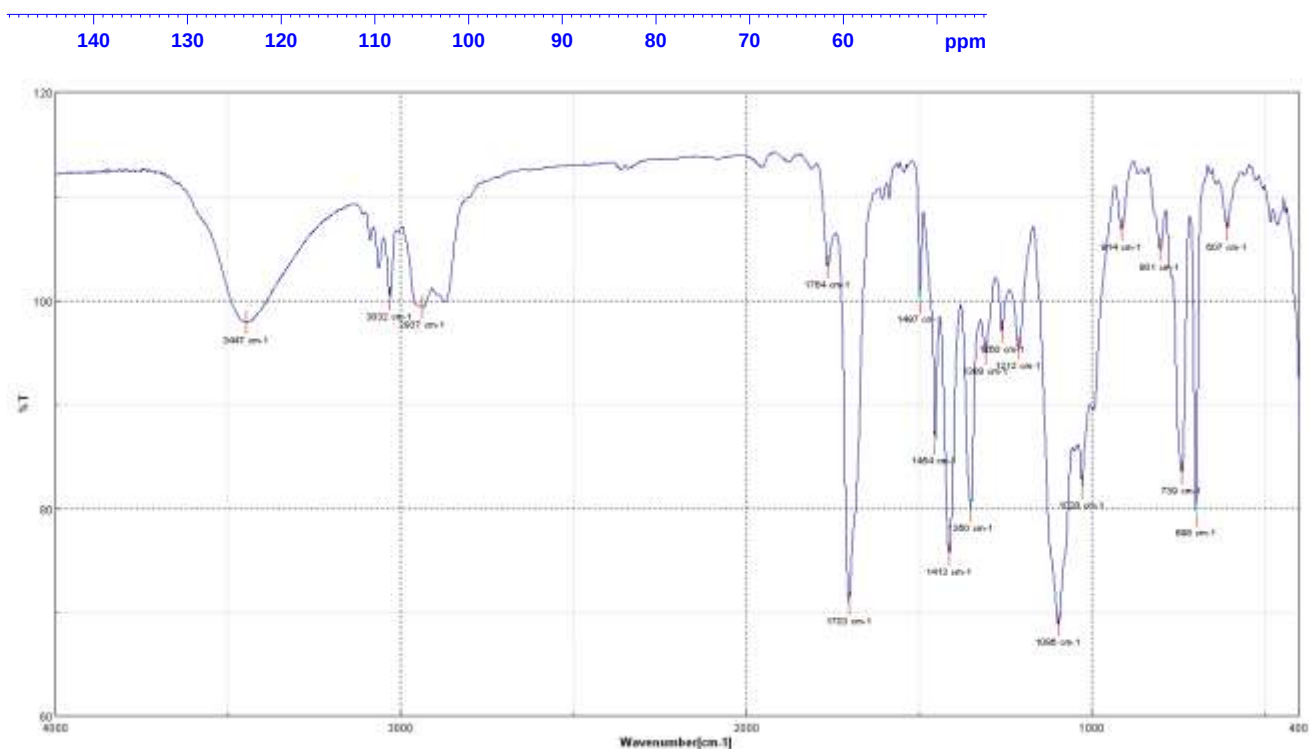
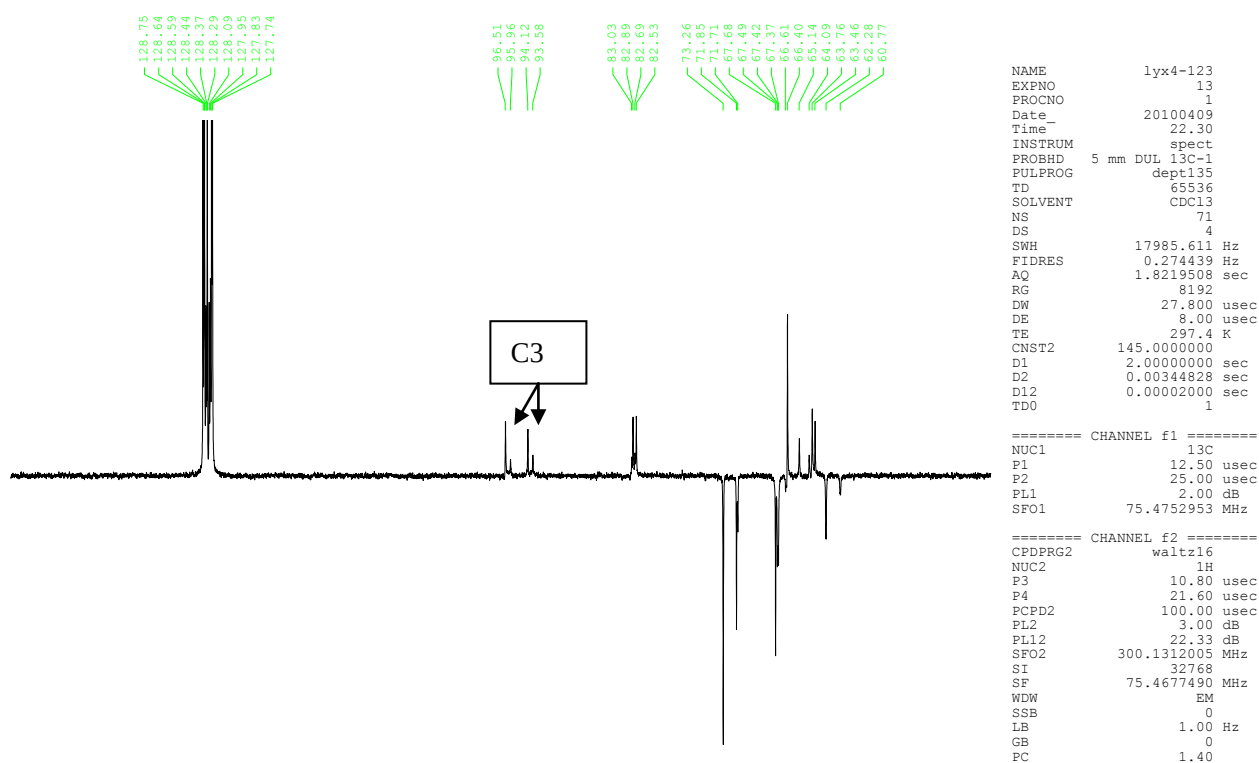
NAME      lyx4-123
EXPNO    12
PROCNO    1
Date_     20100409
Time      22.22
INSTRUM   spect
PROBHD    5 mm DUL 13C-1
PULPROG   zgpg30
TD        65536
SOLVENT   CDCl3
NS         70
DS         4
SWH       17985.611 Hz
FIDRES    0.274439 Hz
AQ        1.8219508 sec
RG        9195.2
DW        27.800 usec
DE        8.00 usec
TE        297.3 K
D1        2.00000000 sec
D11       0.03000000 sec
TD0       1
  
```

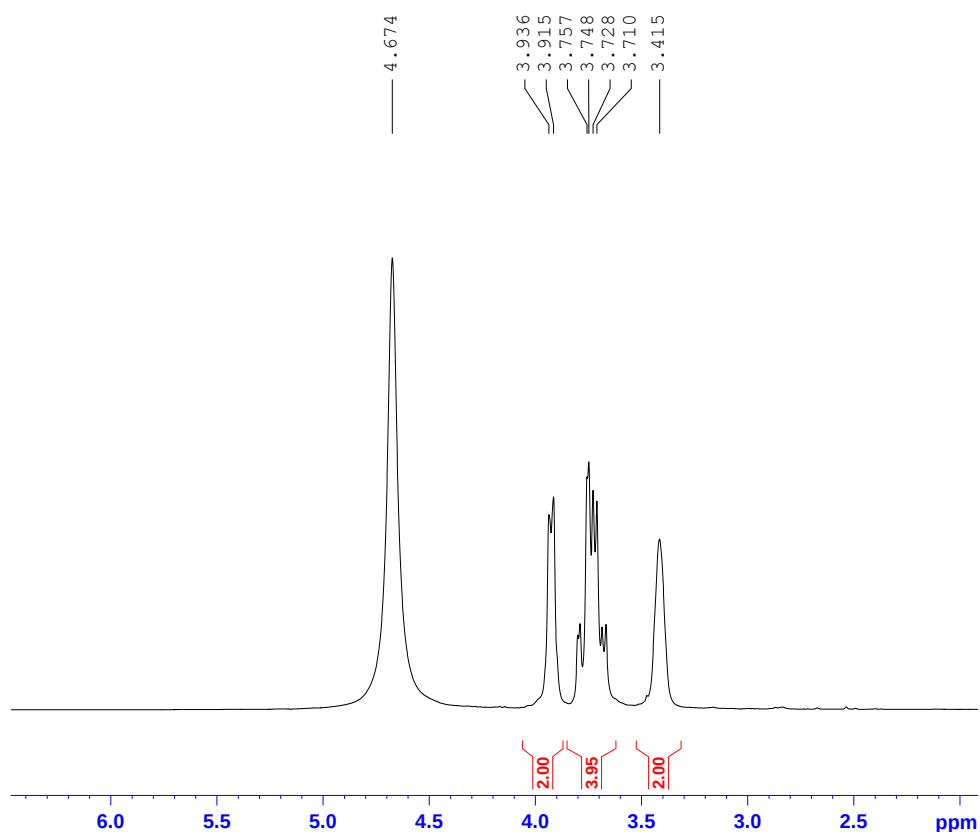
```

===== CHANNEL f1 =====
NUC1      13C
P1        12.50 usec
PL1       2.00 dB
SFO1      75.4752953 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
PCPD2     100.00 usec
PL2       3.00 dB
PL12      22.33 dB
PL13      23.00 dB
SFO2      300.1312005 MHz
SI        32768
SF        75.4677490 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.40
  
```

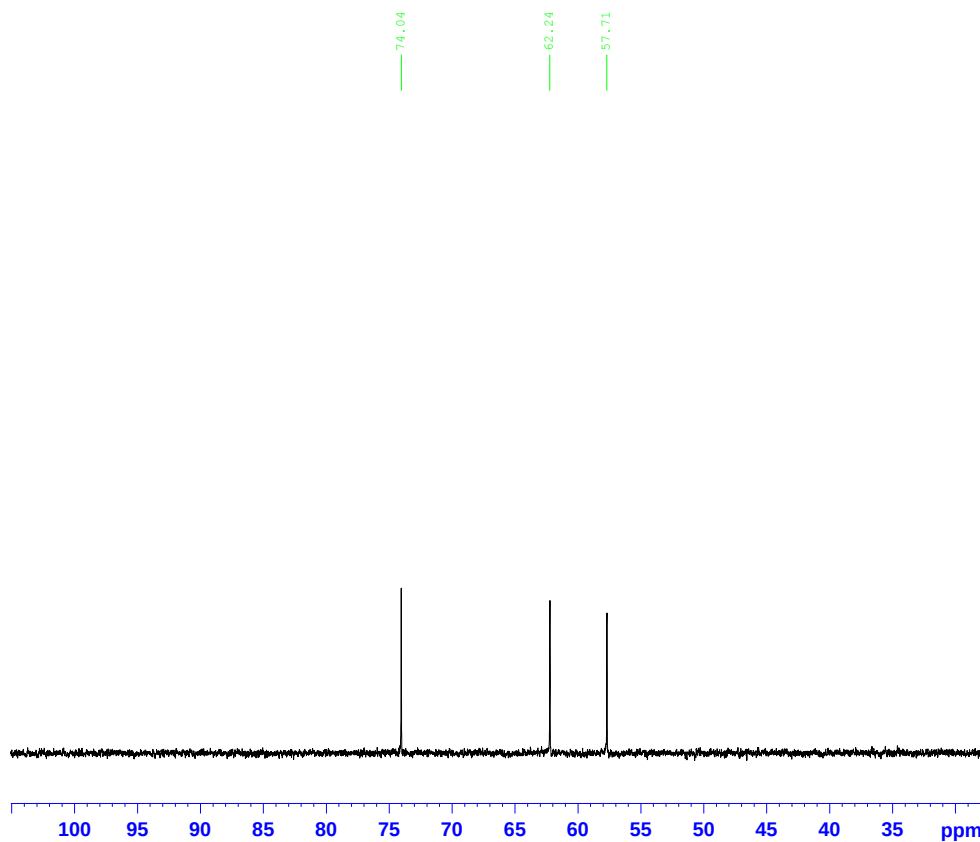




```

NAME          wwb-360
EXPNO         10
PROCNO        1
Date_         20100128
Time_         22.09
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zg30
TD            32768
SOLVENT       D2O
NS            16
DS            0
SWH           8992.806 Hz
FIDRES        0.274439 Hz
AQ            1.8219508 sec
RG            40.3
DW            55.600 usec
DE            8.00 usec
TE            294.3 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            10.80 usec
PL1           3.00 dB
SFO1          300.1318008 MHz
SI            32768
SF            300.1300000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```



```

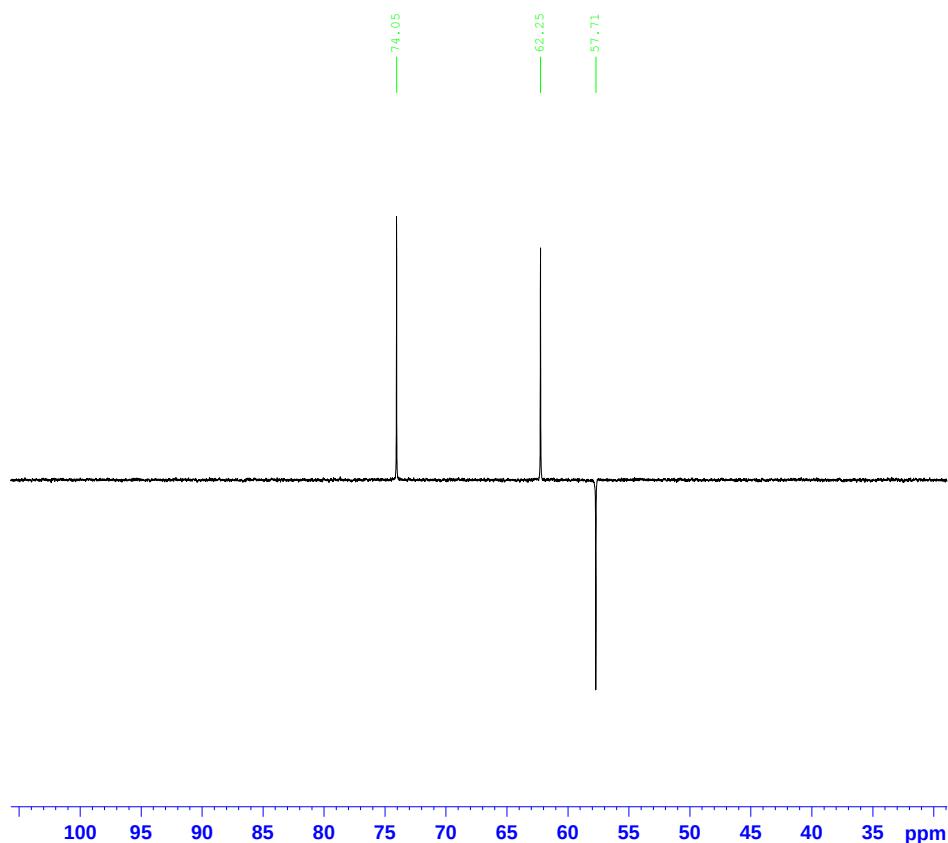
Current Data Parameters
NAME          wwb-360
EXPNO         11
PROCNO        1

F2 - Acquisition Parameters
Date_         20100128
Time_         22.10
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zgig30
TD            32768
SOLVENT       D2O
NS            39
DS            0
SWH           18832.393 Hz
FIDRES        0.574719 Hz
AQ            0.8700404 sec
RG            18390.4
DW            26.550 usec
DE            8.00 usec
TE            294.3 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            12.50 usec
PL1           2.00 dB
SFO1          75.4752953 MHz

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         100.00 usec
PL2           3.00 dB
PL12          22.33 dB
SFO2          300.1312005 MHz

F2 - Processing parameters
SI            32768
SF            75.4677490 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40
  
```

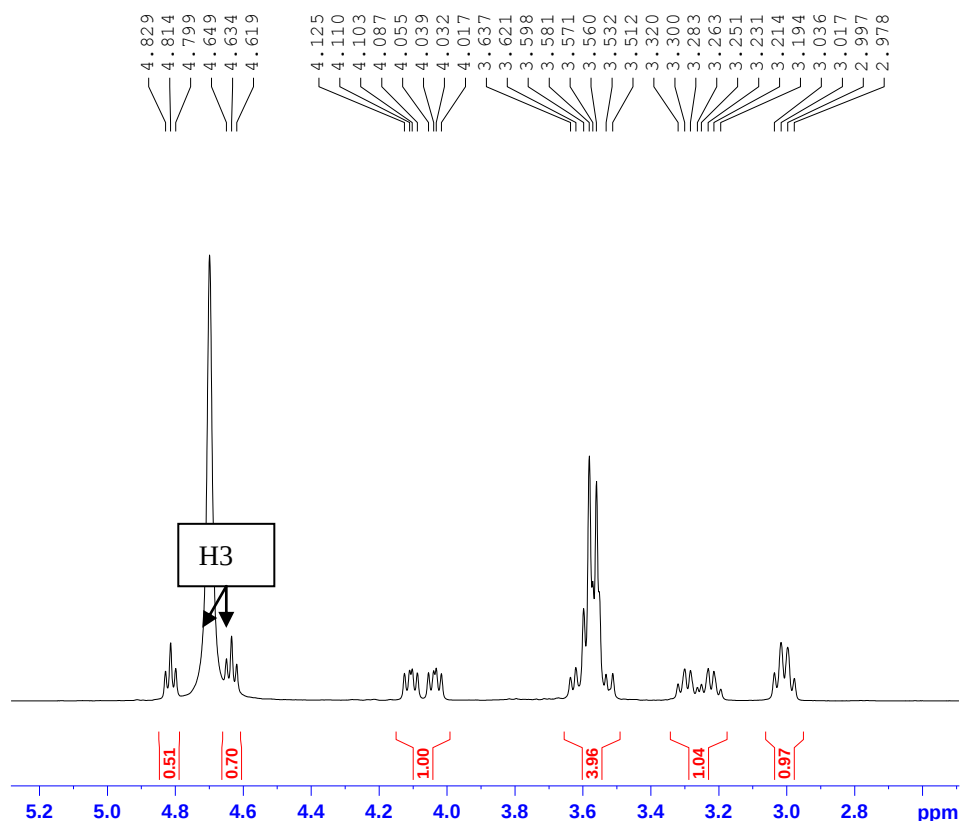
```

NAME          wwb-360
EXPNO         21
PROCNO        1
Date_         20100119
Time          13.19
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       dept135
TD            32768
SOLVENT       D2O
NS            23
DS            0
SWH           18832.393 Hz
FIDRES        0.574719 Hz
AQ            0.8700404 sec
RG            16384
DW            26.550 usec
DE            8.00 usec
TE            294.8 K
CNST2         145.0000000
D1            1.50000000 sec
D2            0.00344828 sec
D12           0.00002000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            12.50 usec
P2            25.00 usec
PL1           2.00 dB
SFO1          75.4752958 MHz

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
P3            10.80 usec
P4            21.60 usec
PCPD2         100.00 usec
PL2           3.00 dB
PL12          22.33 dB
SFO2          300.1312005 MHz
SI            32768
SF            75.4677490 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40

```

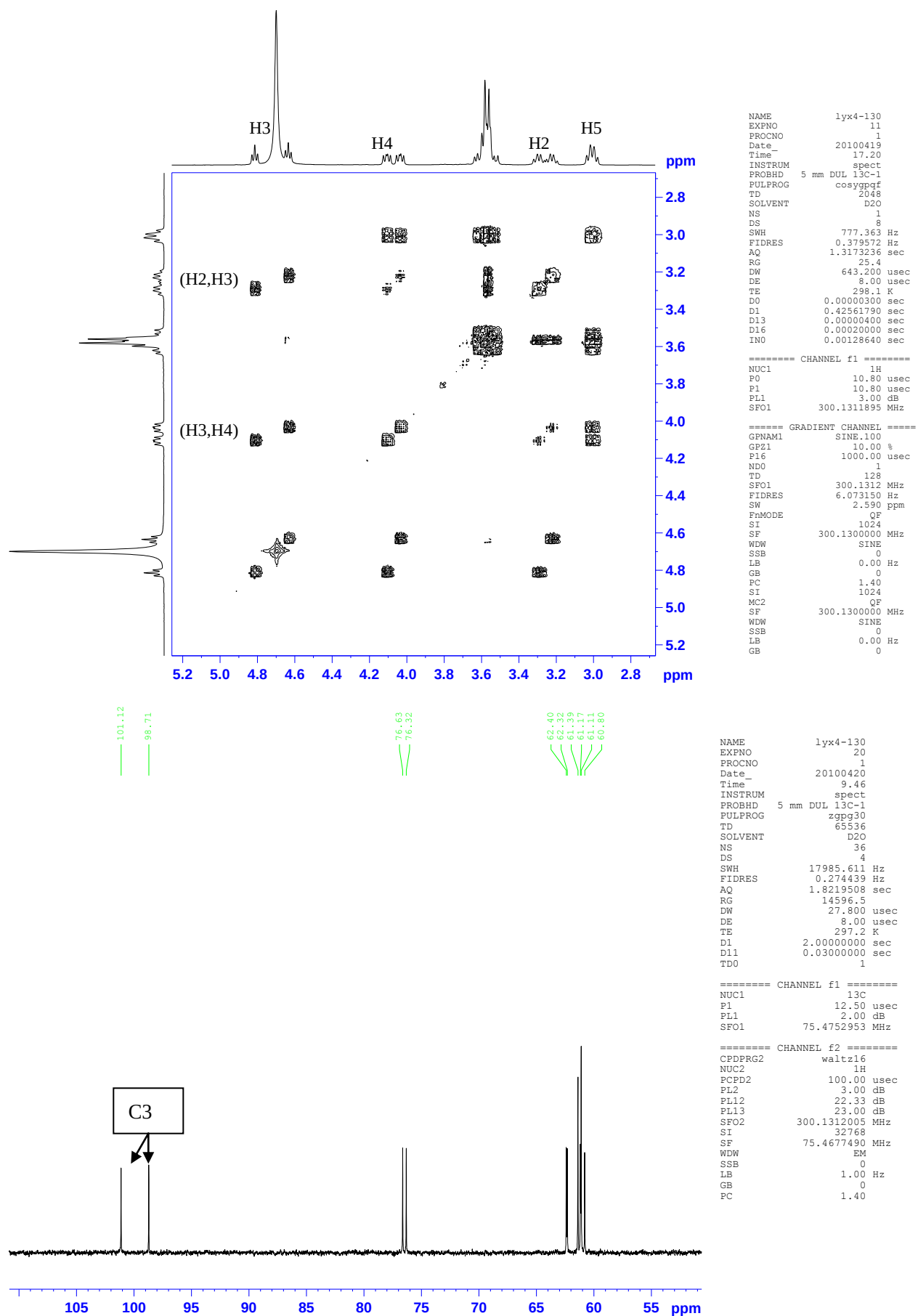


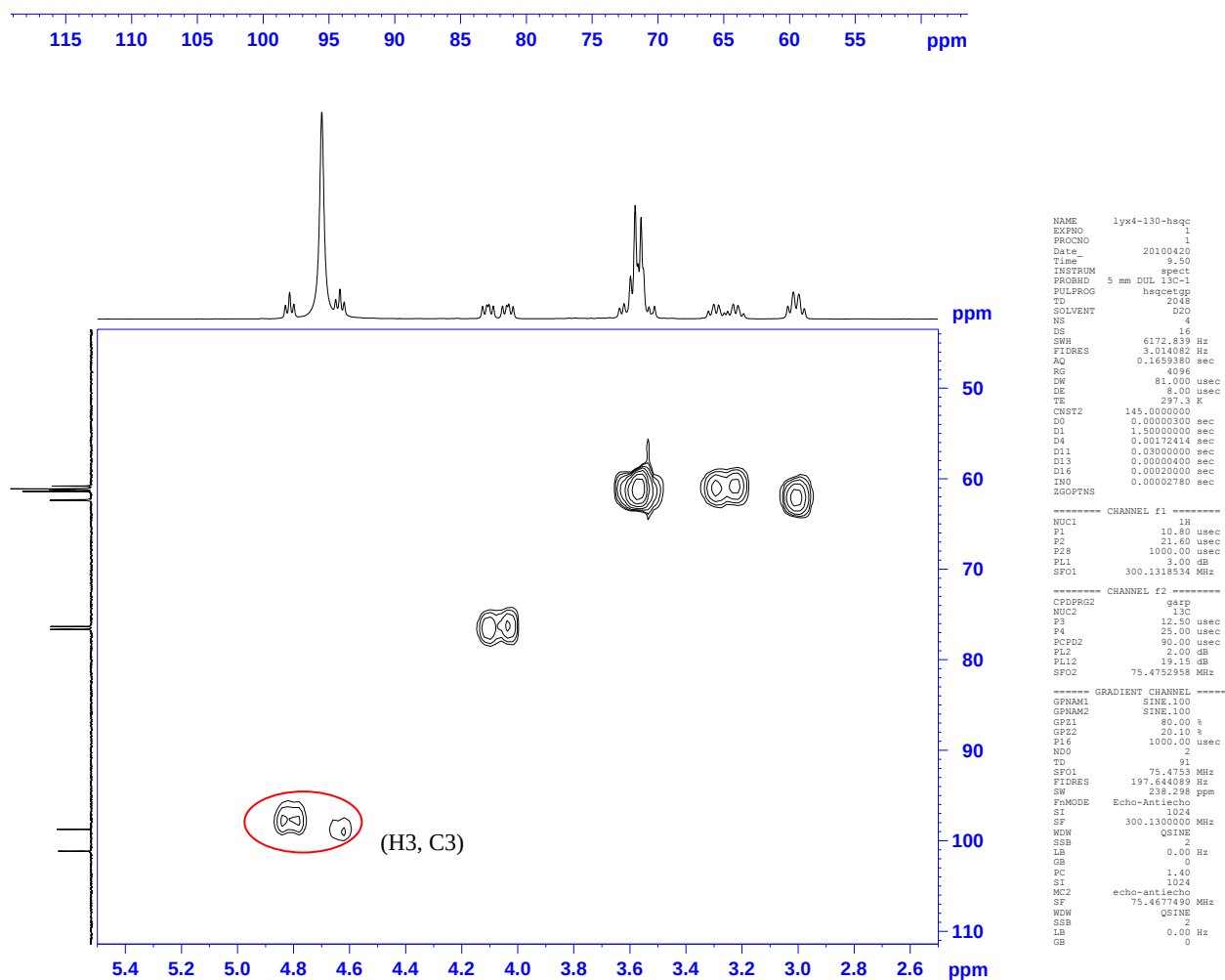
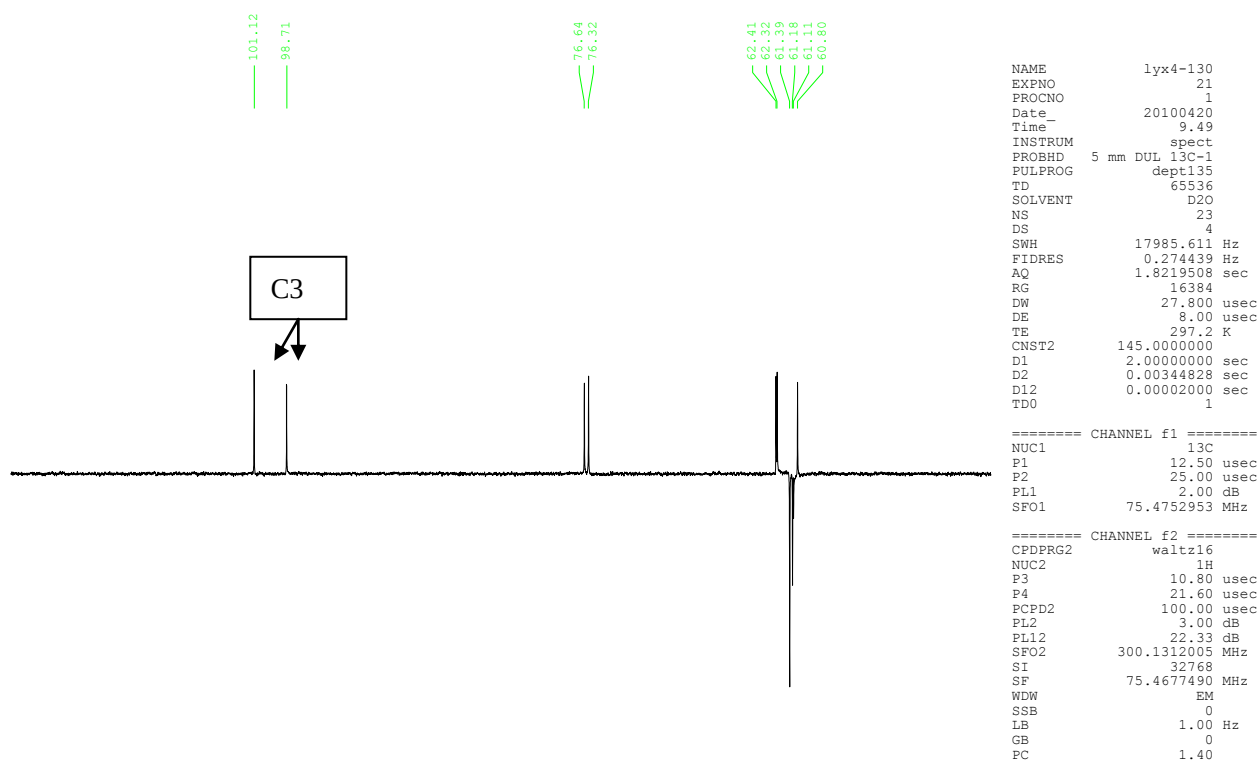
```

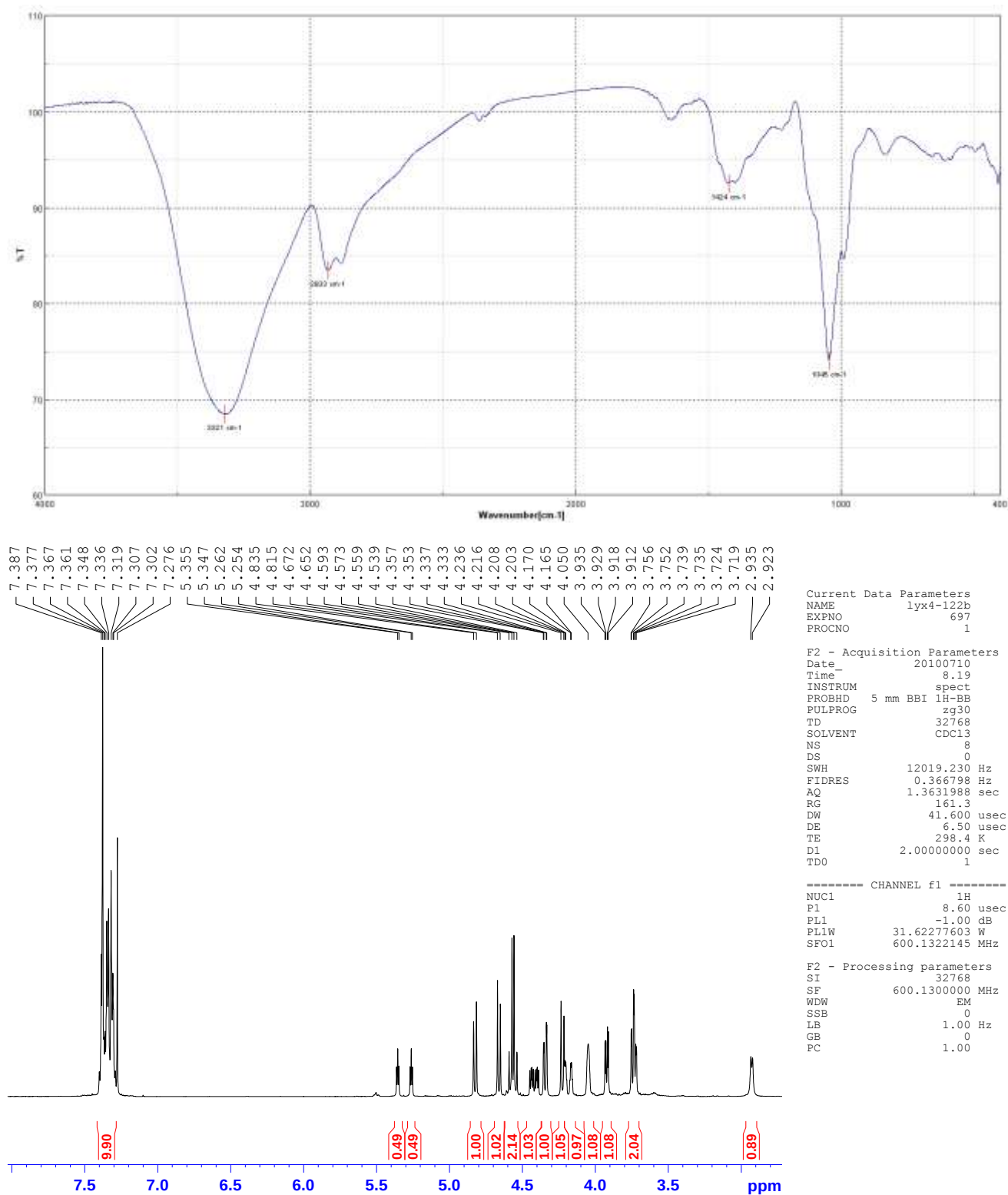
NAME          lyx4-130
EXPNO         10
PROCNO        1
Date_         20100419
Time          17.20
INSTRUM       spect
PROBHD        5 mm DUL 13C-1
PULPROG       zg30
TD            65536
SOLVENT       D2O
NS            2
DS            0
SWH           8992.806 Hz
FIDRES        0.137219 Hz
AQ            3.6438515 sec
RG            35.9
DW            55.600 usec
DE            8.00 usec
TE            298.1 K
D1            1.00000000 sec
TD0           1

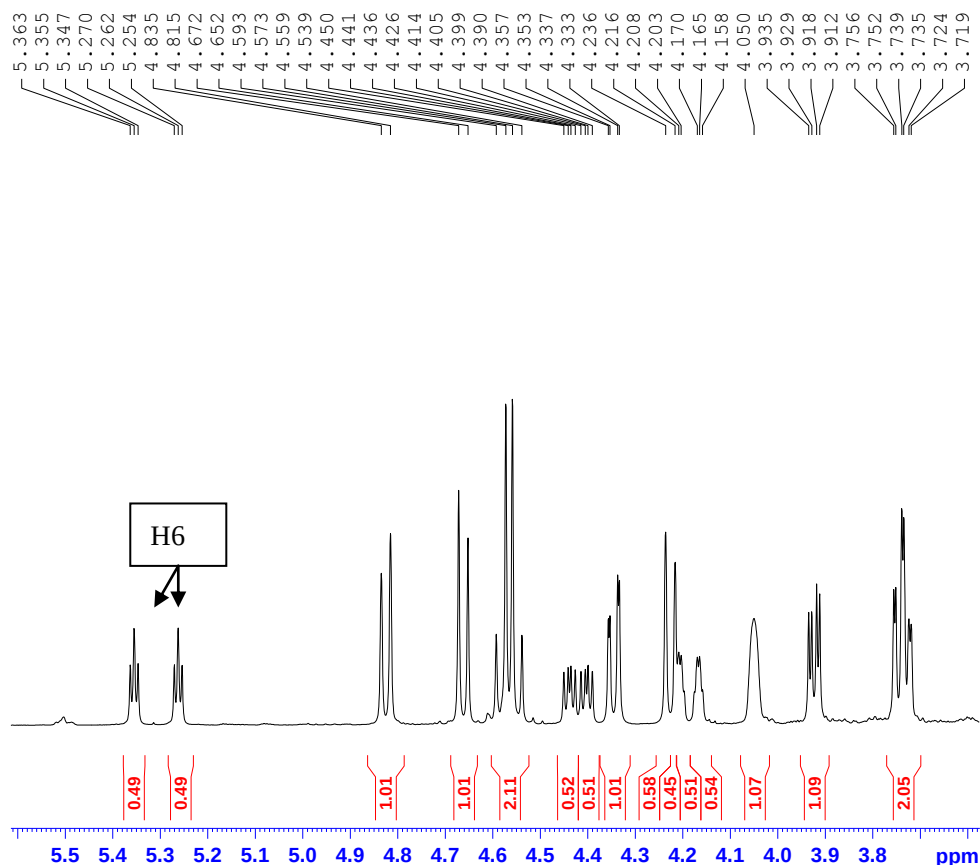
===== CHANNEL f1 =====
NUC1          1H
P1            10.80 usec
PL1           3.00 dB
SFO1          300.1324010 MHz
SI            32768
SF            300.1300000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00

```







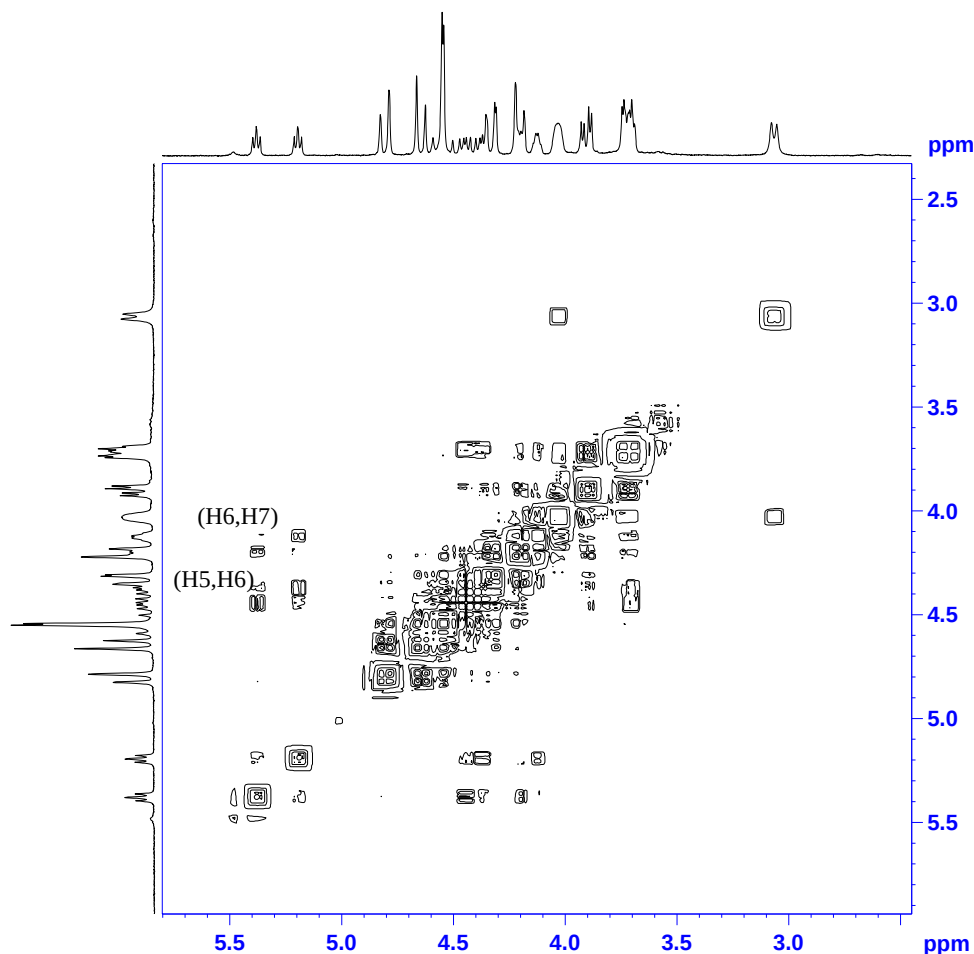


Current Data Parameters
NAME 1yx4-122b
EXPNO 697
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100710
Time_ 8.19
INSTRUM spect
PROBHD 5 mm BBI 1H-BB
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 8
DS 0
SWH 12019.230 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 161.3
DW 41.600 usec
DE 6.50 usec
TE 298.4 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 8.60 usec
PL1 -1.00 dB
PL1W 31.62277603 W
SF01 600.1322145 MHz

F2 - Processing parameters
SI 32768
SF 600.1300000 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.00



NAME 1yx4-122b
EXPNO 11
PROCNO 1
Date_ 20100706
Time_ 9.30
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG cosygpgf
TD 2048
SOLVENT CDCl3
NS 4
DS 8
SWH 2653.928 Hz
FIDRES 1.295863 Hz
AQ 0.3858932 sec
RG 228.1
DW 188.400 usec
DE 8.00 usec
TE 299.6 K
D0 0.00000300 sec
D1 1.41152501 sec
D13 0.00000400 sec
D16 0.00020000 sec
IN0 0.00037680 sec

===== CHANNEL f1 =====
NUC1 1H
P0 10.80 usec
P1 10.80 usec
PL1 3.00 dB
SF01 300.1311626 MHz

===== GRADIENT CHANNEL =====
GPNAM1 SINE.100
GPZ1 10.00 %
P16 1000.00 usec
ND0 1
TD 39
SF01 300.1312 MHz
FIDRES 68.049431 Hz
SW 8.843 ppm
FnMODE QF
SI 1024
SF 300.1300068 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.40
SI 1024
MC2 QF
SF 300.1300068 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

