

Supporting Information for:

Preparation of Nucleosides Derived from 2-Nitroimidazole and D-Arabinose, D-Ribose and D-Galactose by the Vorbrüggen Method and their Conversion to Potential Precursors for Tracers to Image Hypoxia

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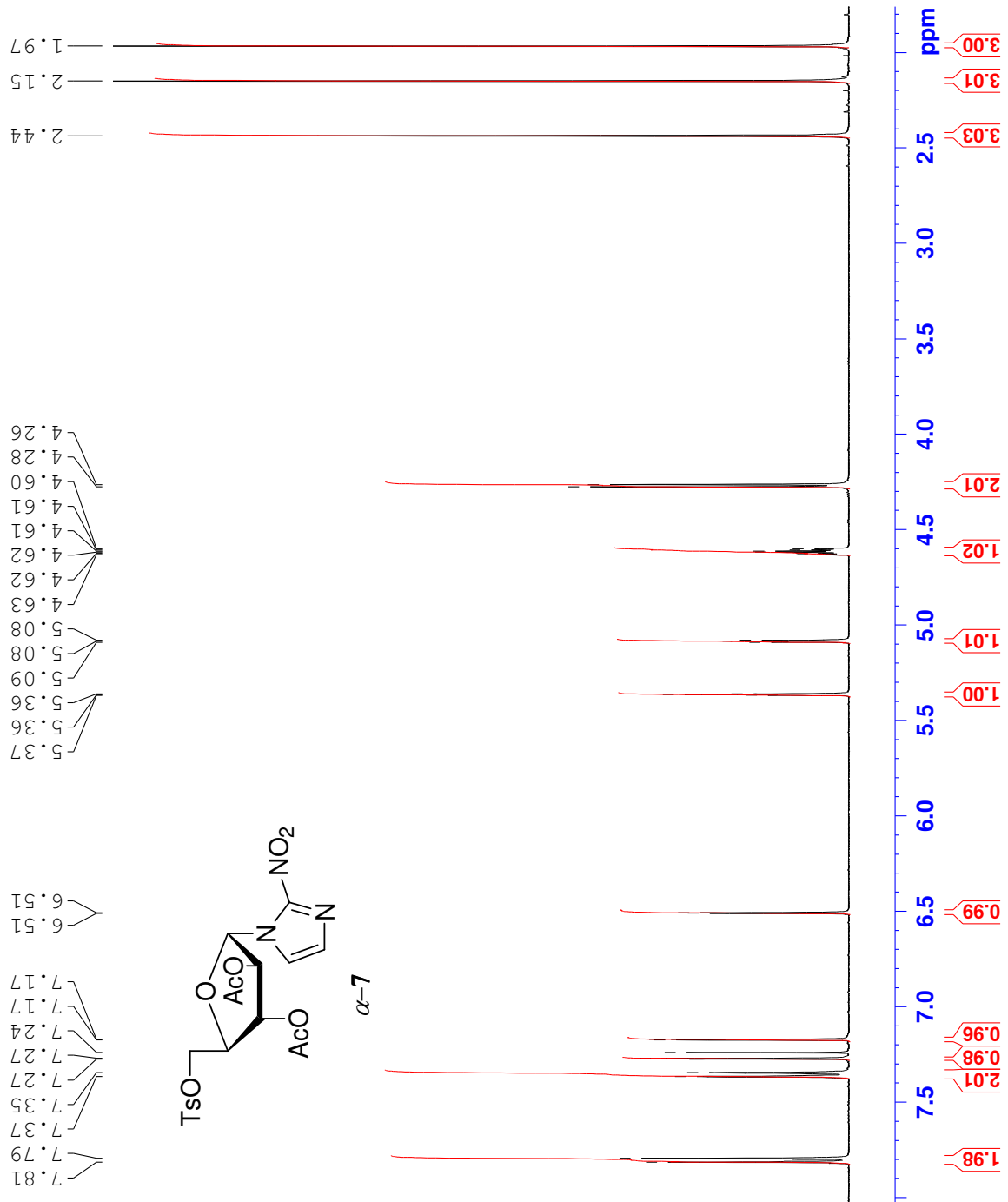
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Current Data Parameters
NAME AW548_Alpha
EXPNO 80
PROCNO 1

F2 - Acquisition Parameters
Date_ 20040819
Time_ 18.27
INSTRUM advance400
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 203.2
DM 60.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

==== CHANNEL f1 =====
NUC1 IH
P1 8.75 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz
F2 - Processing parameters
SI 32768
SF 400.1300173 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.00





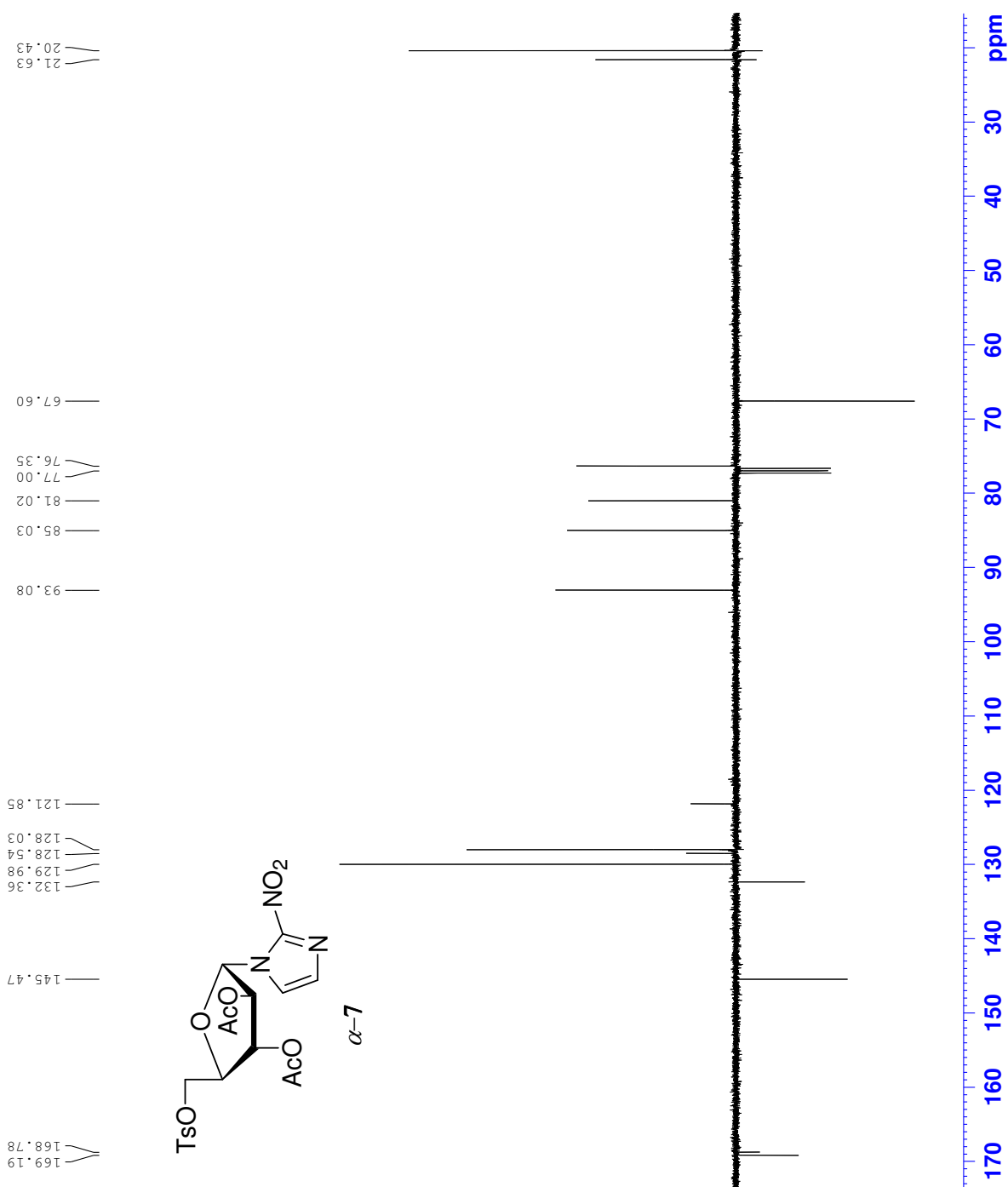
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EXPNO 170
PROCNO 1

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PROBHD 5 mm PABBO BB-
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 800
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 14596.5
DW 19.950 usec
DE 6.00 usec
TE 300.0 K
CNST2 145.000000
CNST11 1.000000
D1 2.0000000 sec
d13 0.0000300 sec
d20 0.00689655 sec
DELTA 0.00001311 sec

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6232933 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127726 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40





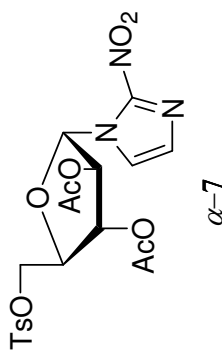
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132.58

145.71

169.44
169.01



Current Data Parameters
 NAME AWS48_Alpha
 EXPNO 171
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20040901
 Time 22.10
 INSTRUM avance400
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDC13
 NS 800
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 7298.2
 DW 20.850 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

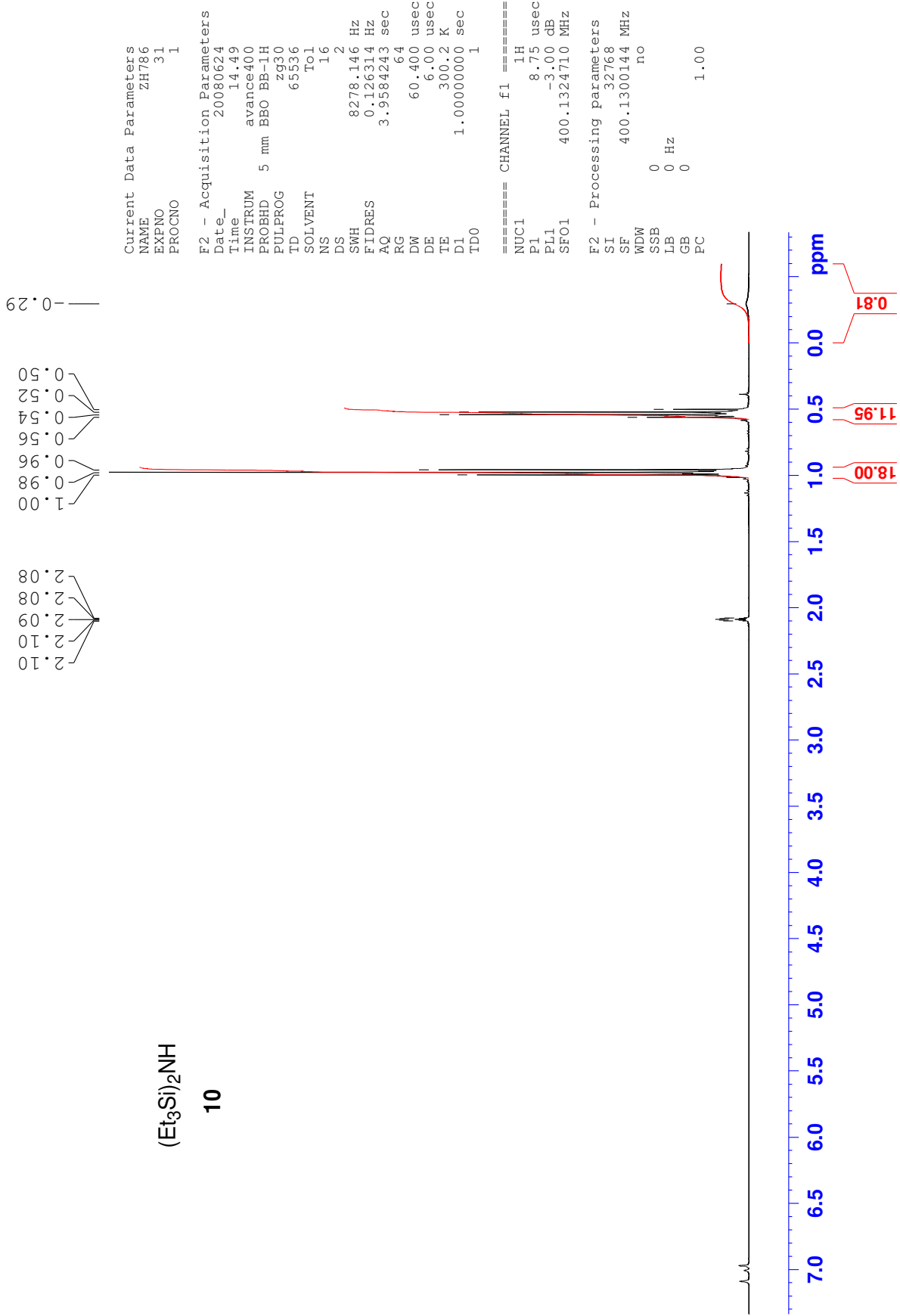
==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 FCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127487 MHz
 WDW no
 SSB 0
 GB 0 Hz
 PC 1.40

ppm

(Et₃Si)₂NH
10





21.78
21.59
21.40
21.21
21.01
8.45
7.97

(Et₃Si)₂NH
10

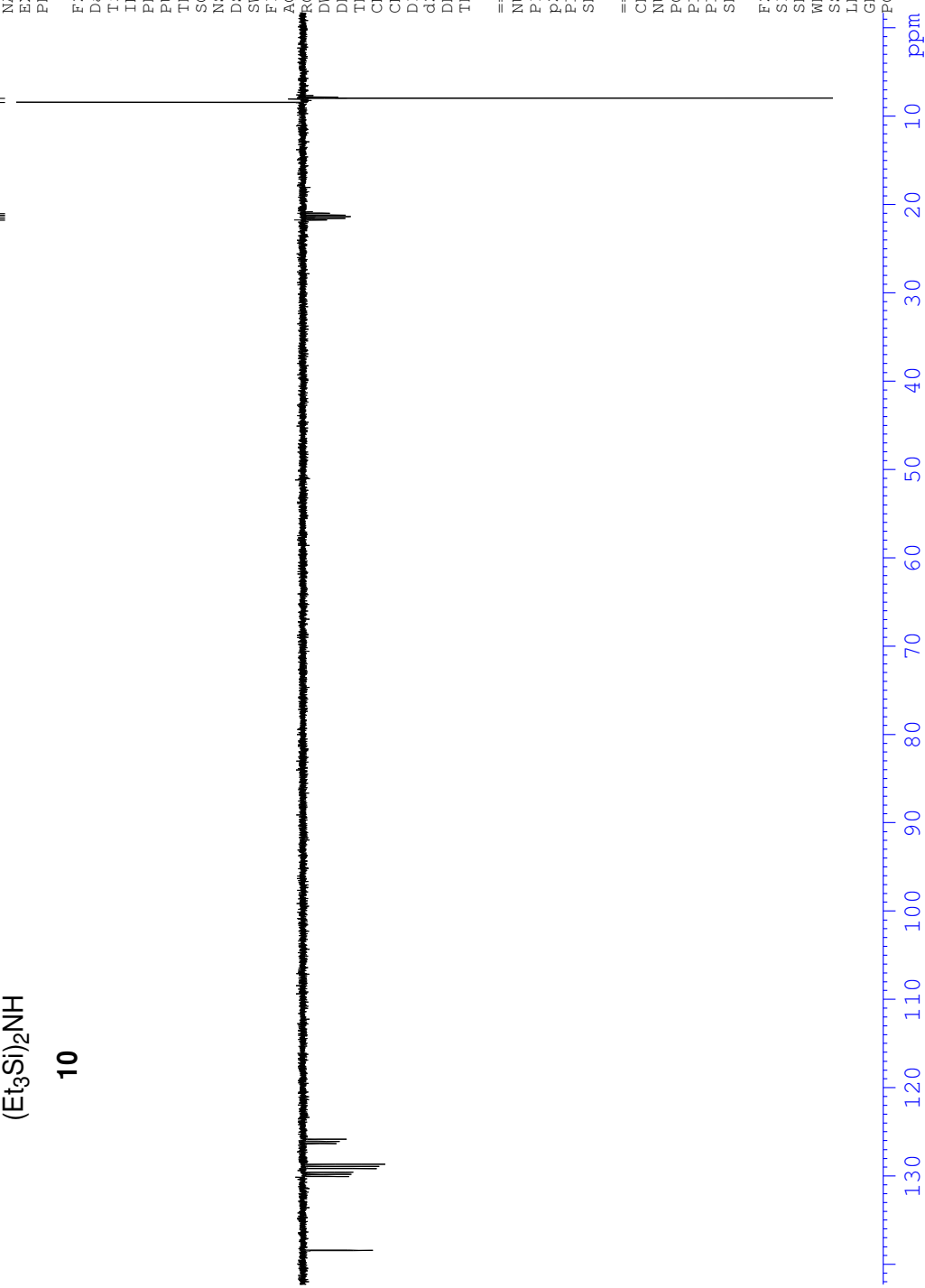
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PROCNO 1

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PULPROG jmod
TD 65536
SOLVENT Tol
NS 121
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 2298.8
DW 19.950 usec
DE 6.00 usec
TE 300.2 K
CNST2 145.0000000
CNST11 1.0000000
D1 2.00000000 sec
d20 0.00689655 sec
DELTA 0.00001311 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6233329 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6126296 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40





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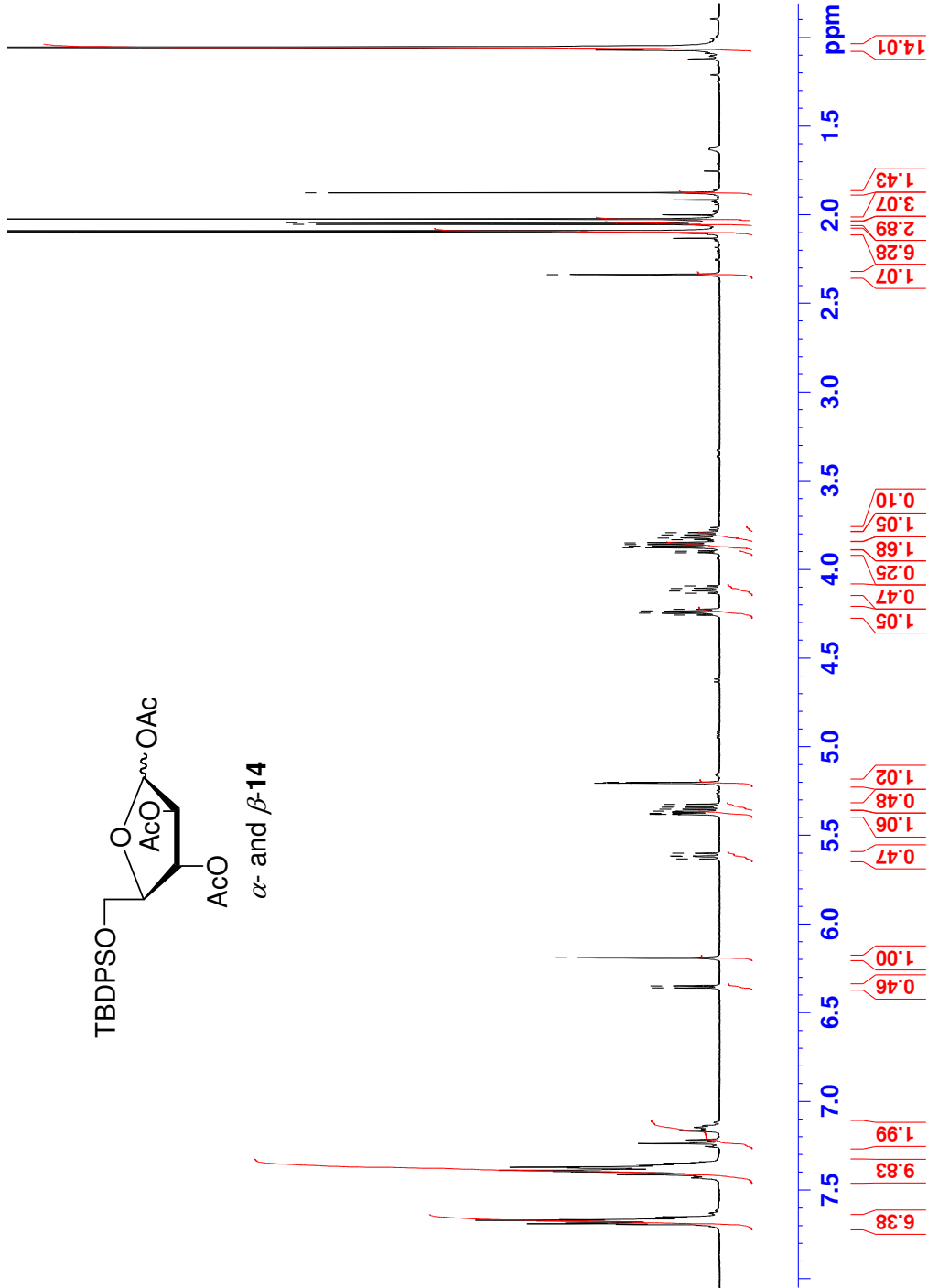
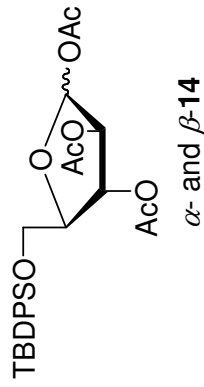
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EXPNO        80
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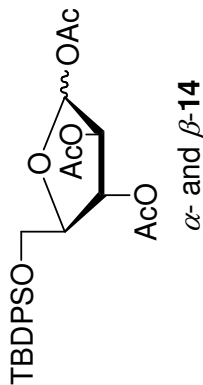
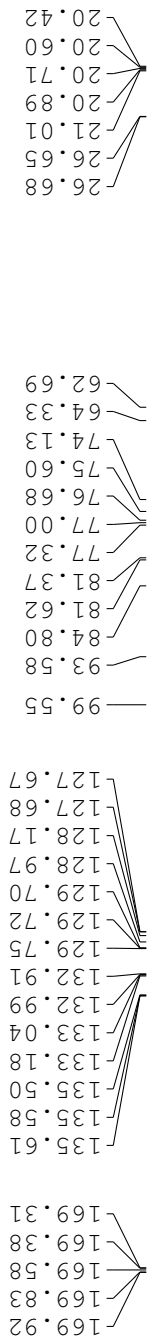
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Time         10.43
INSTRUM      avance400
PROBHD       5 mm PABBO BB-
PULPROG      zg30
TD           65536
SOLVENT      CDCl3
NS           16
DS           2
SWH          8278.146 Hz
FIDRES       0.126314 Hz
AQ           3.9584243 sec
RG           90.5
DW           60.400 usec
DE           6.00 usec
TE           300.0 K
D1           1.00000000 sec

===== CHANNEL f1 =====
NUC1         1H
P1           8.75 usec
PL1         -3.00 dB
SFO1        400.1324710 MHz

F2 - Processing parameters
SI           32768
SF          400.1300174 MHz
WDW          no
SSB          0
LB           0 Hz
GB           0
PC           1.00
  
```

1.06
 1.88
 2.02
 2.04
 2.05
 2.09
 2.10
 2.10
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 3.81
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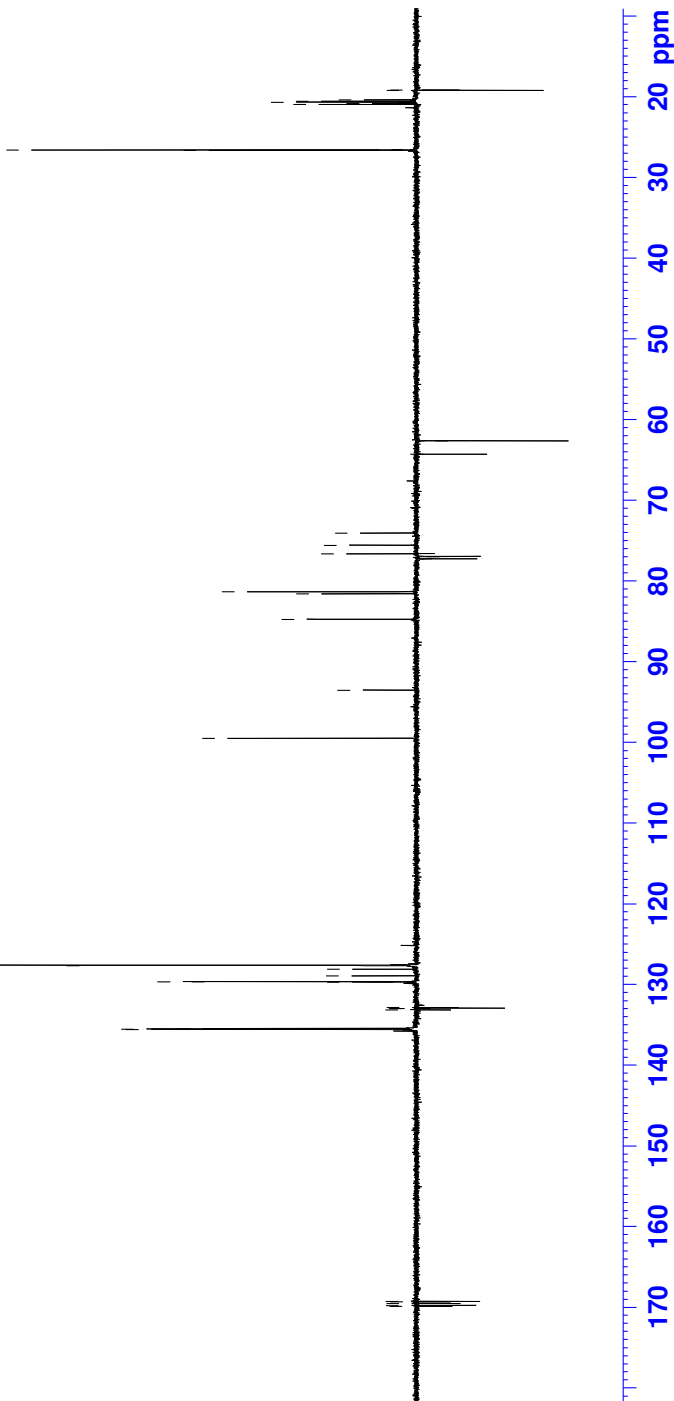
Current Data Parameters
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 EXPNO 81
 PROCNO 1

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 Time_ 11-28
 INSTRUM avance400
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDC13
 NS 800
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 5160.6
 DW 19.950 usec
 DE 6.00 usec
 TE 300.0 K
 CNST2 145.0000000
 CNST11 1.0000000
 d1 2.00000000 sec
 d13 0.00000300 sec
 d20 0.00689655 sec
 DELTA 0.00001311 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 P2 20.60 usec
 PL1 -1.00 dB
 SF01 100.6232933 MHz

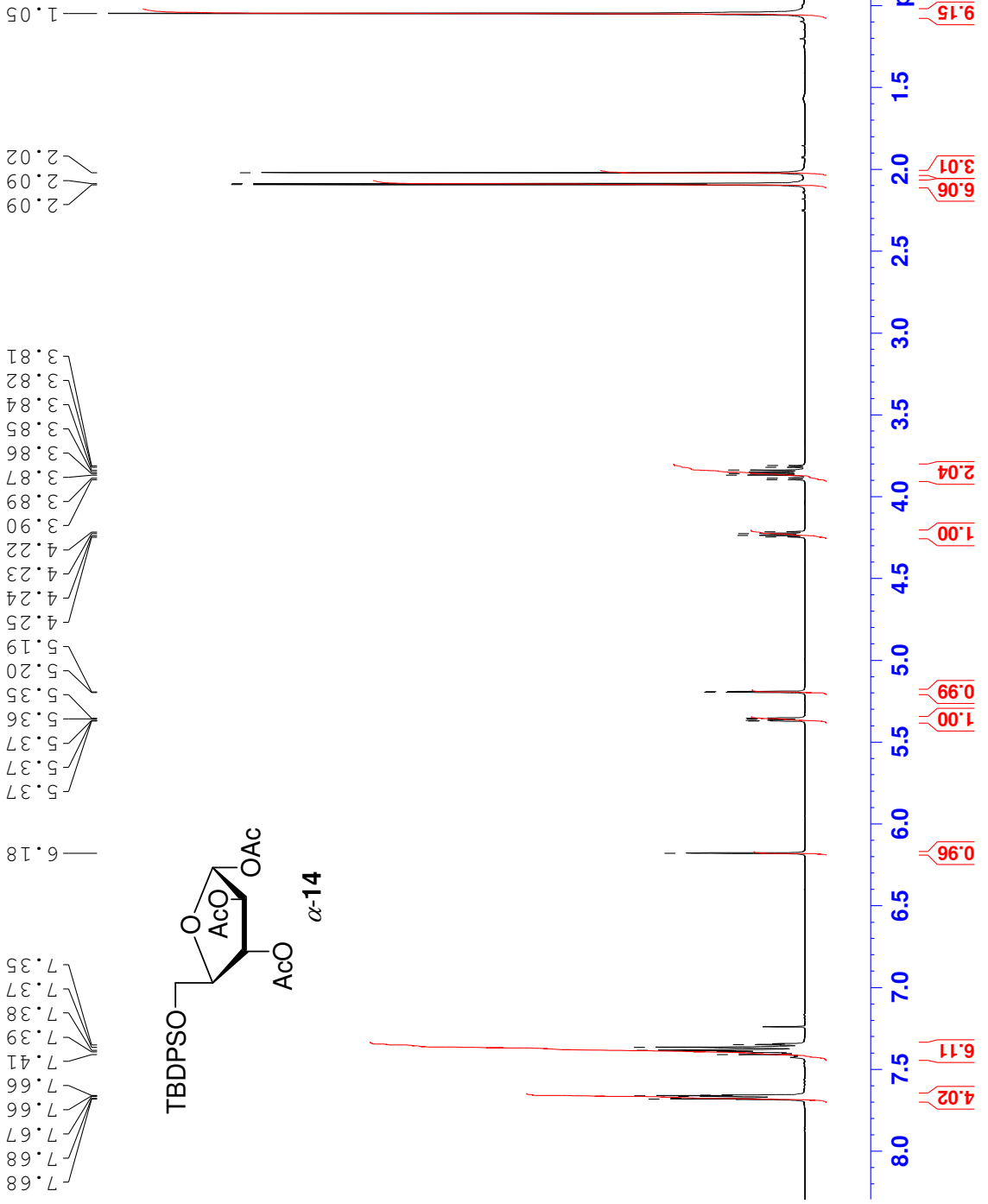
==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 SF02 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127755 MHz
 WDW no
 SSB 0 Hz
 LB 0
 GB 0
 PC 1.40





Current Data Parameters
 NAME AW585_Kristalle
 EXPNO 20
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20071126
 Time 12.10
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 128
 DW 60.400 usec
 DE 6.00 usec
 TE 300.2 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300170 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





Current Data Parameters
NAME AW585_Kristalle
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20071126
Time 12.44
INSTRUM avance400
PROBHD 5 mm BBO BB-IH
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 608
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 13004
DW 19.950 usec
DE 6.00 usec
TE 300.2 K
CNST2 145.000000
CNST11 1.0000000
D1 2.0000000 sec
d20 0.00689655 sec
DELTA 0.00001311 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6233329 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127471 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40

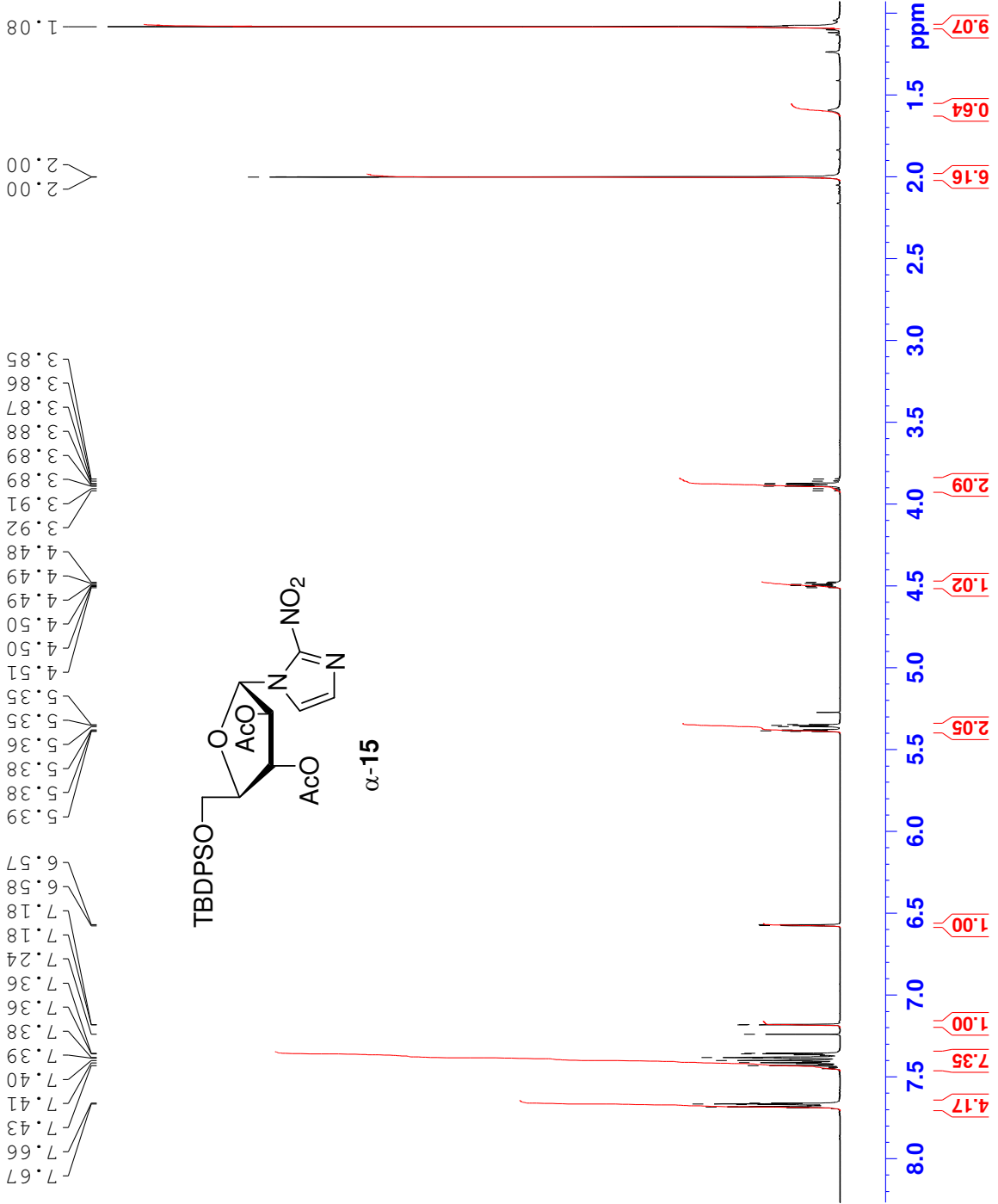


Current Data Parameters
 NAME AW595
 EXPNO 70
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041020
 Time 16.21
 INSTRUM avance400
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 143.7
 DM 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300170 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





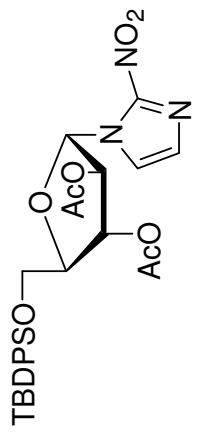
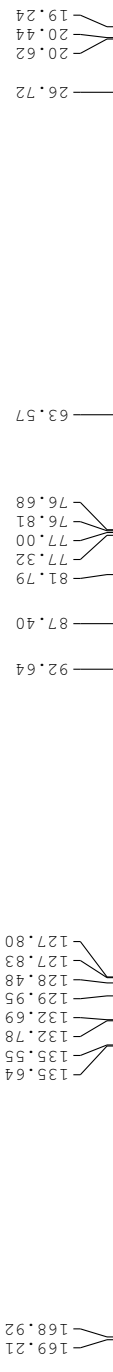
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 NAME AW595
 EXPNO 71
 PROCNO 1

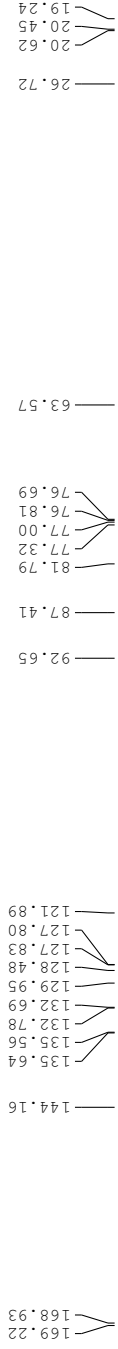
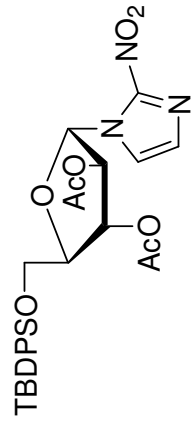
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 Date_ 20041020
 Time 17.29
 INSTRUM advance400
 PROBHD 5 mm PABBO BB-
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1200
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 14596.5
 DW 19.950 usec
 DE 6.00 usec
 TE 300.0 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.0000000 sec
 d13 0.00000300 sec
 d20 0.00689655 sec
 DELTA 0.00001311 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 P2 20.60 usec
 PL1 -1.00 dB
 SFO1 100.6232933 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127719 MHz
 WDM no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40





Current Data Parameters
 NAME AW595
 EXPNO 72
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041021
 Time 9.02
 INSTRUM avance400
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 1024
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 7298.2
 DW 20.850 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127719 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40



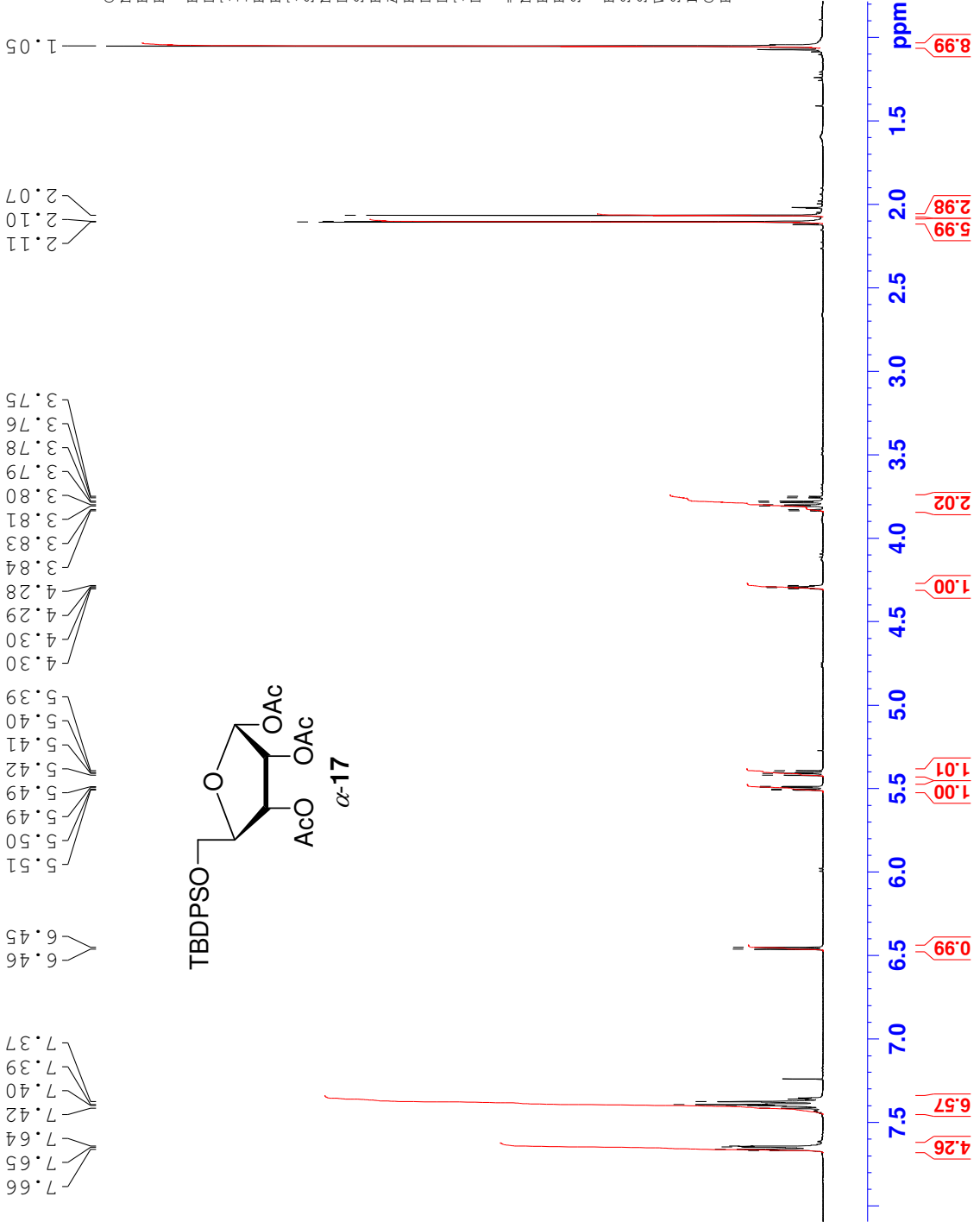


Current Data Parameters
 NAME AW596_W_Alpha
 EXPNO 100
 PROCNO 1

F2 - Acquisition Parameters
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 Time_ 15.12
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 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 114
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300172 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





Current Data Parameters
 NAME AWS96_W_Alpha
 EXPNO 101
 PROCNO 1

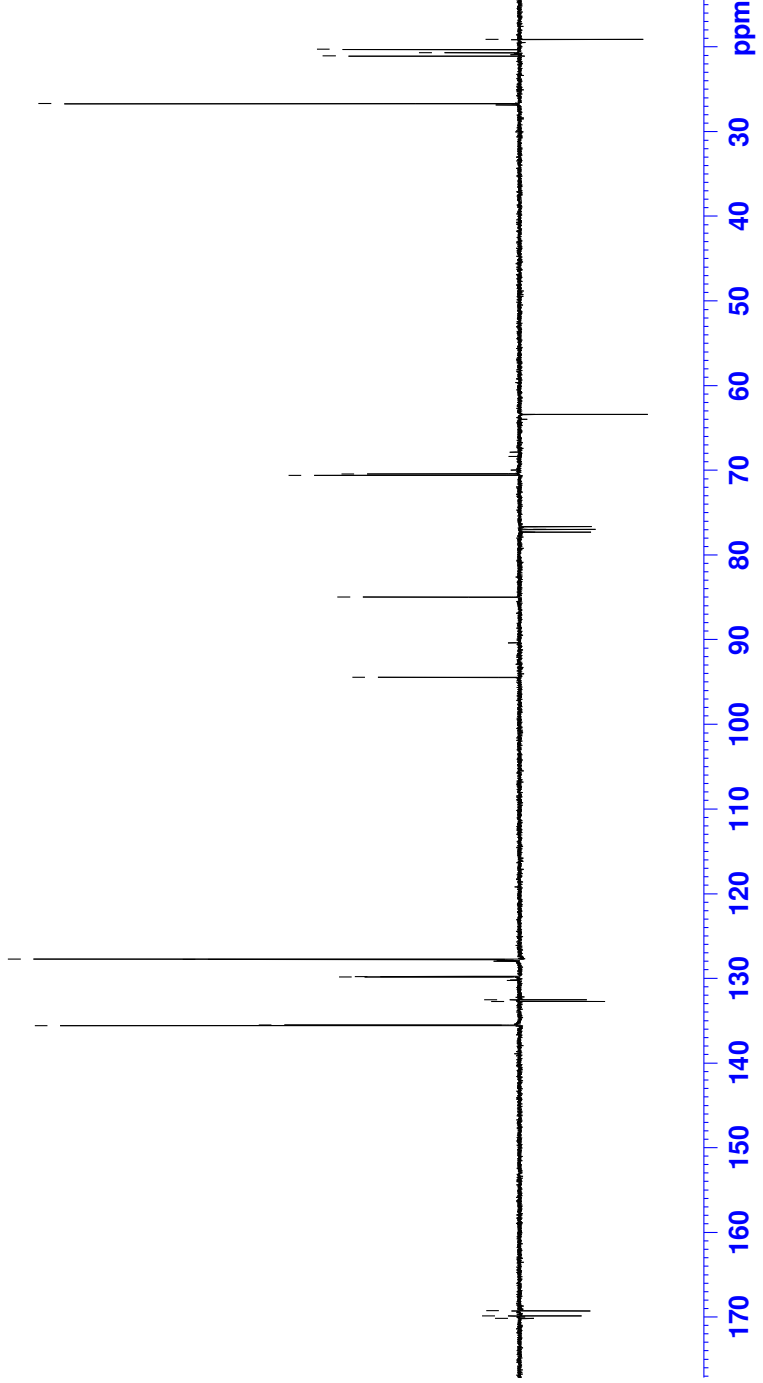
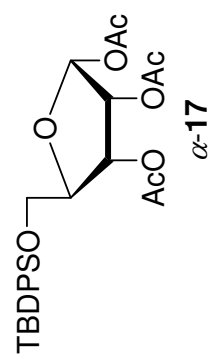
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 Time 16.09
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 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1000
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 16384
 DW 19.950 usec
 DE 6.00 usec
 TE 300.0 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.0000000 sec
 d13 0.00000300 sec
 d20 0.00689655 sec
 DELTA 0.00001311 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 P2 20.60 usec
 PL1 -1.00 dB
 SFO1 100.6232933 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127724 MHz
 WDW no
 SSB 0 Hz
 LB 0
 GB 0
 PC 1.40

26.72
21.09
20.71
20.31

94.48
85.02
77.32
77.00
76.68
70.61
70.45
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127.78



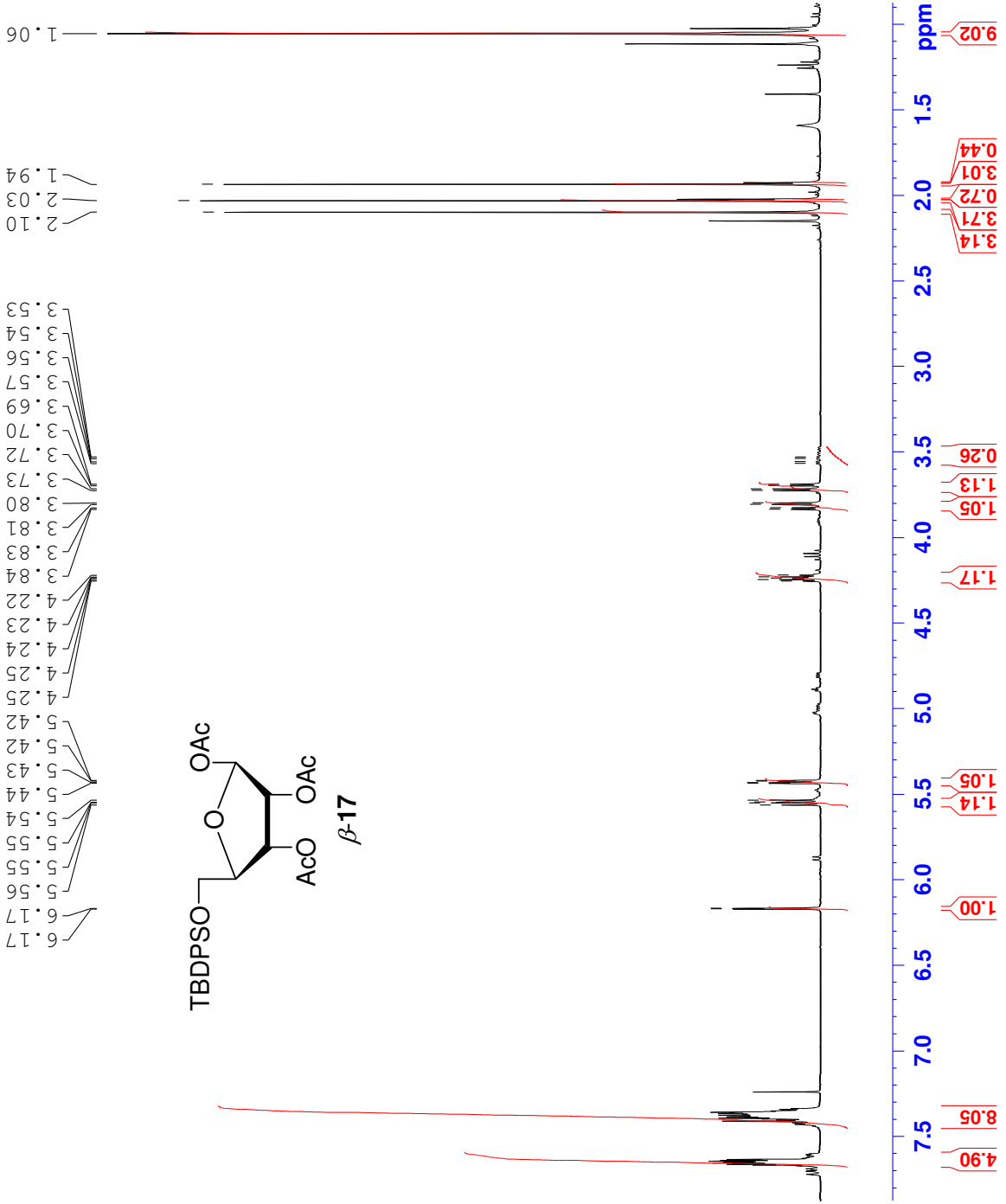


Current Data Parameters
 NAME AW596_W_Beta
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
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 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 128
 DW 60.400 usec
 DE 6.00 usec
 TE 300.2 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300173 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 1.00



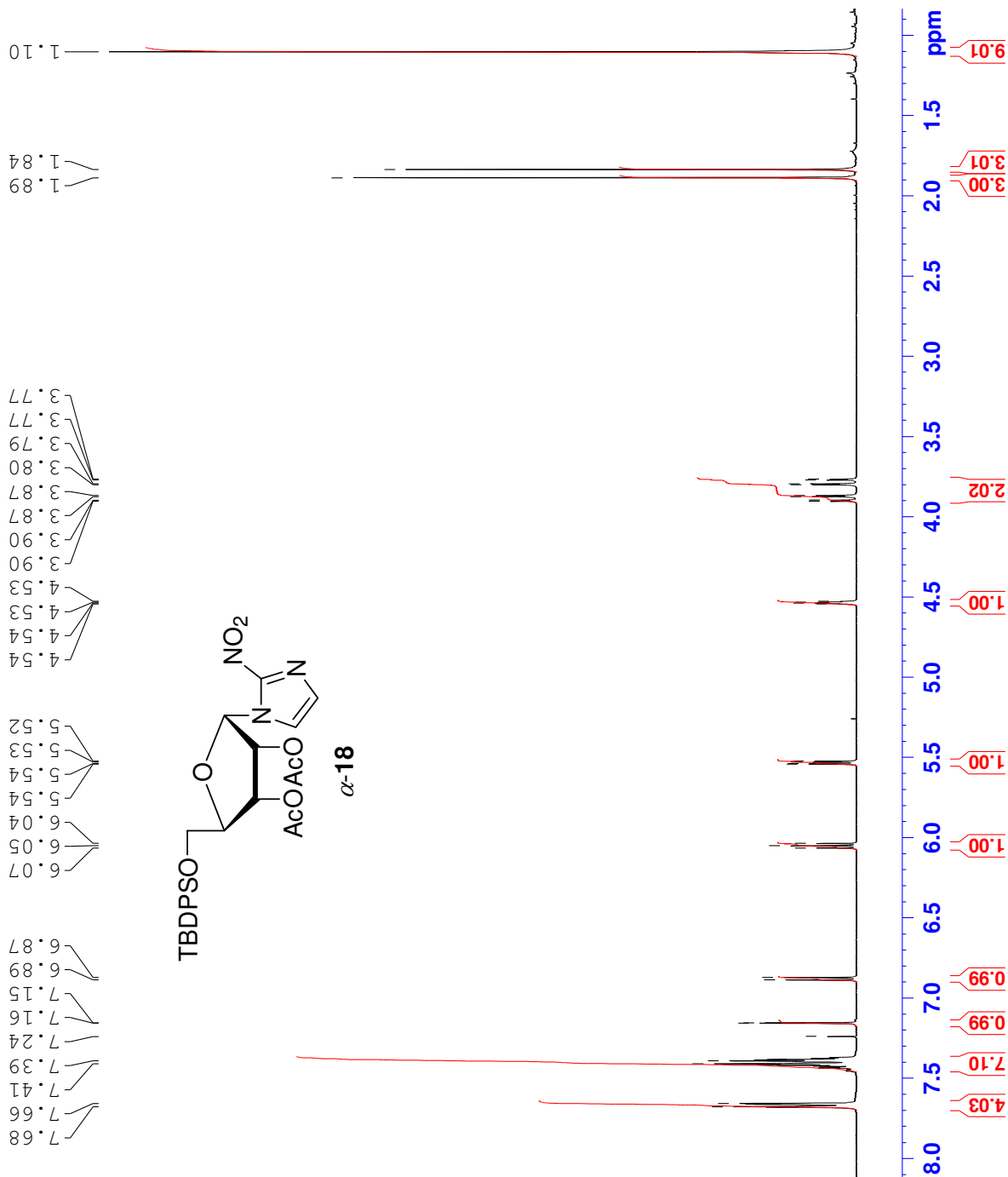


Current Data Parameters
 NAME AW580_W_Alpha
 EXPNO 80
 PROCNO 1

F2 - Acquisition Parameters
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 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 64
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300168 MHz
 WDW no
 SSB 0 Hz
 LB 0
 GB 0
 PC 1.00





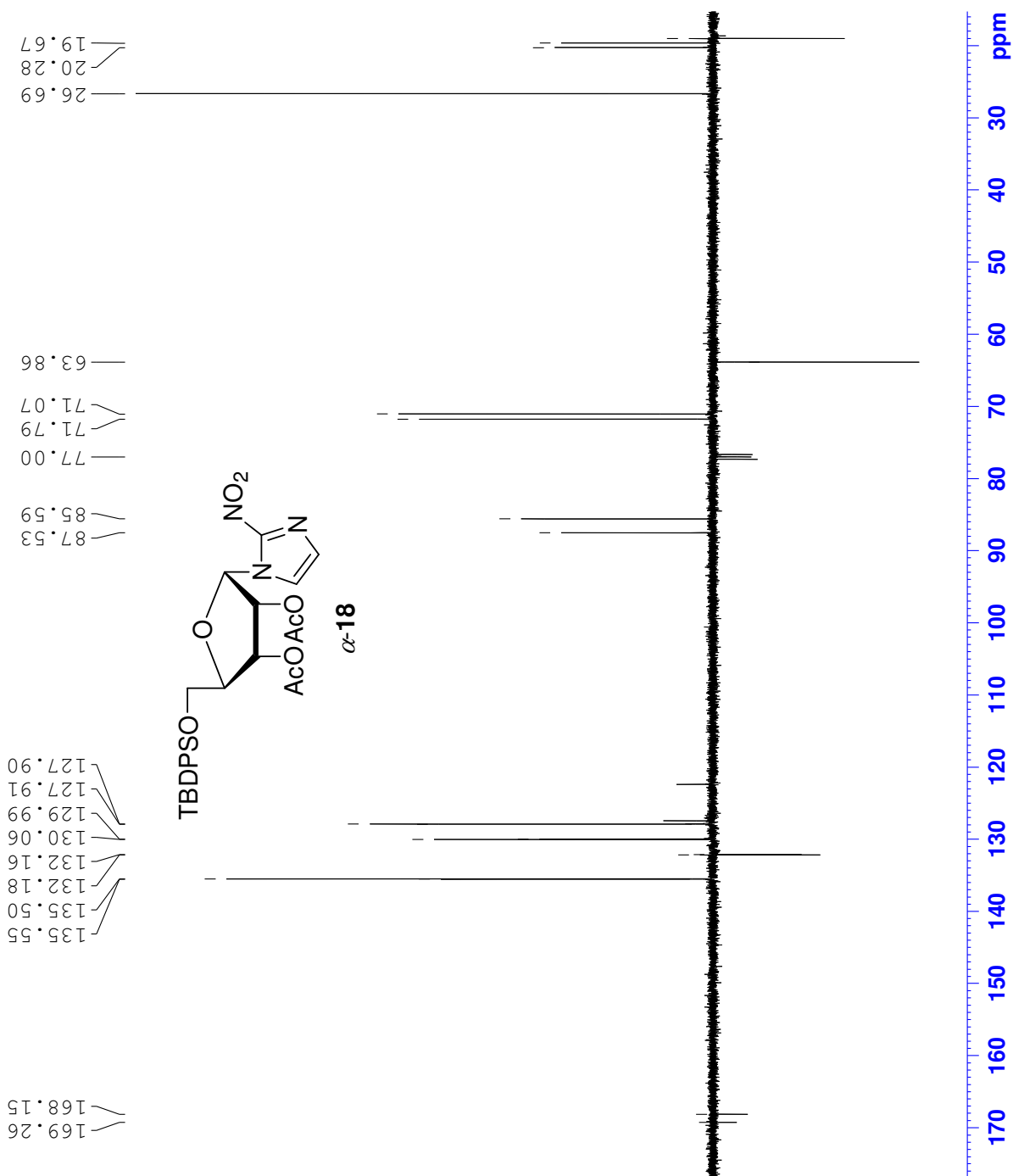
Current Data Parameters
NAME AW580_W_Alpha
EXPNO 81
PROCNO 1

F2 - Acquisition Parameters
Date_ 20040915
Time 16.00
INSTRUM avance400
PROBHD 5 mm PABBO BB-
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 129
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 10321.3
DW 19.950 usec
DE 6.00 usec
TE 300.0 K
CNST2 145.0000000
CNST11 1.0000000
D1 2.0000000 sec
d13 0.0000300 sec
d20 0.00689655 sec
DELTA 0.00001311 sec

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6232933 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127769 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40





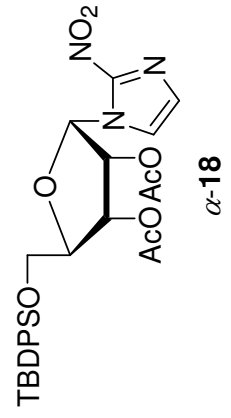
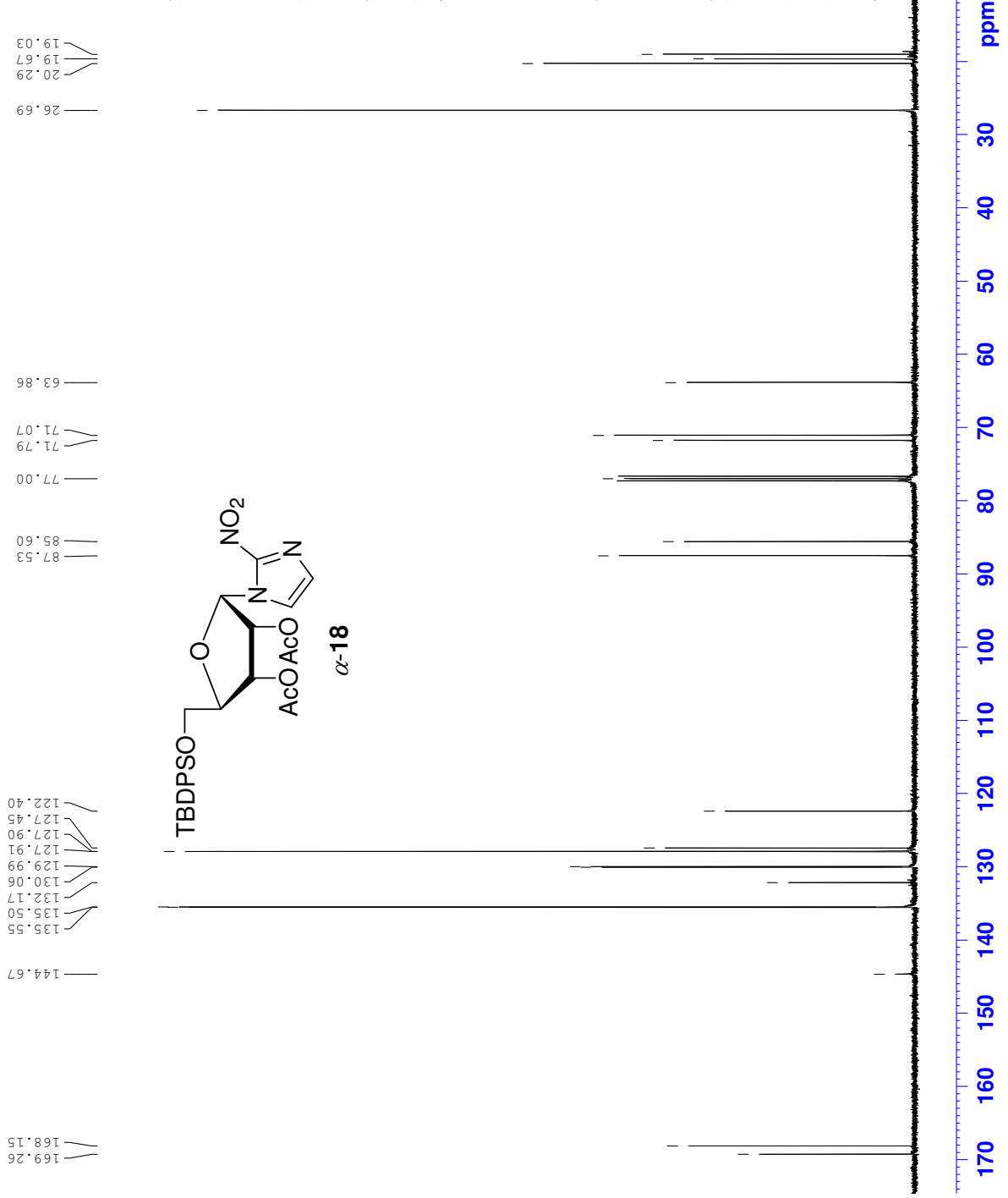
Current Data Parameters
 NAME AW580_W_Alpha
 EXPNO 82
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20040915
 Time 16.55
 INSTRUM advance400
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 800
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 4096
 DW 20.850 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127769 MHz
 WDW EM
 SSB 0
 GB 0
 PC 1.40



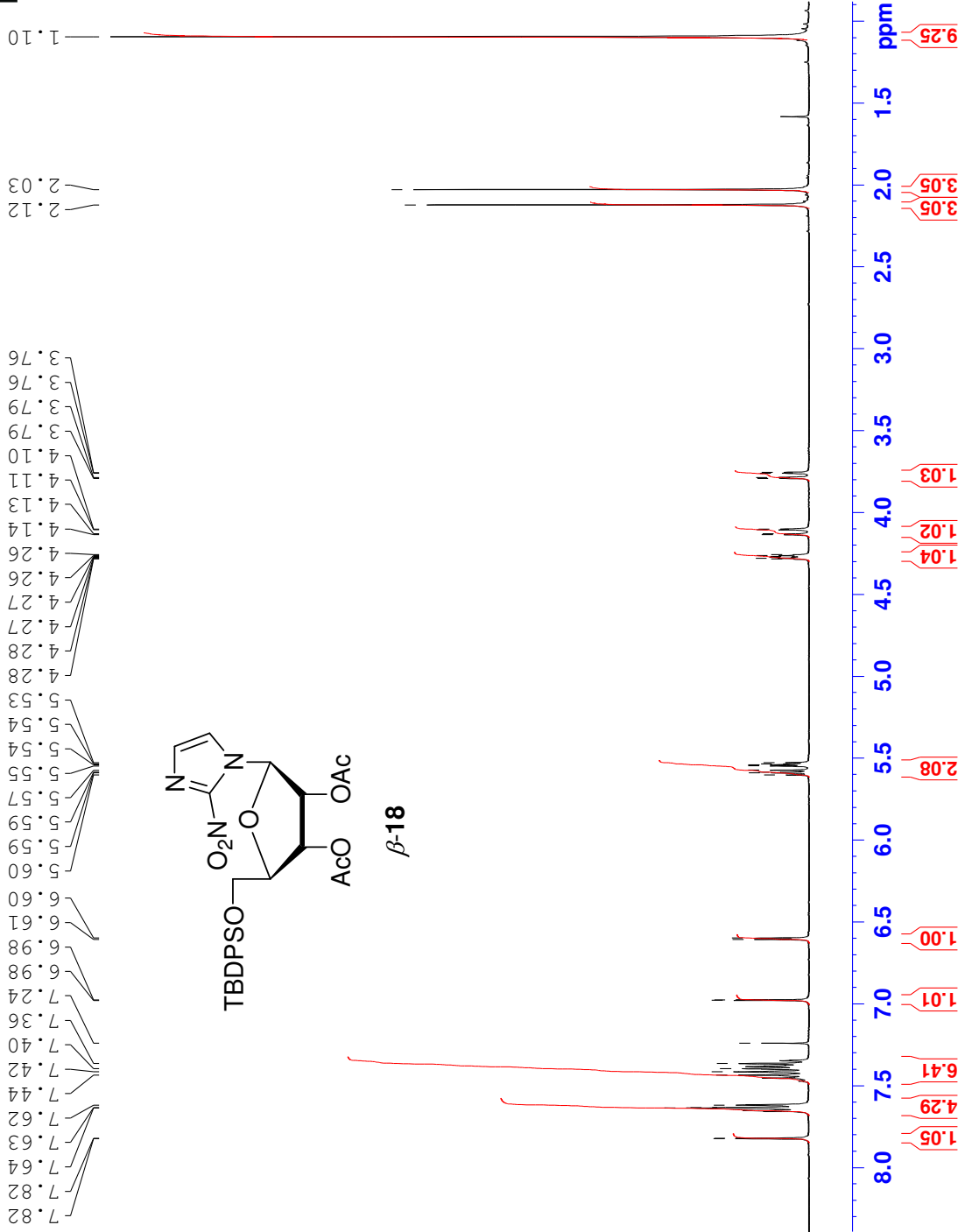


Current Data Parameters
 NAME AW597_W_Beta
 EXPNO 30
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041116
 Time 9.41
 INSTRUM advance400
 PROBHD 5 mm Multinucl
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 101.6
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.0000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 9.80 usec
 PL1 3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300167 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00

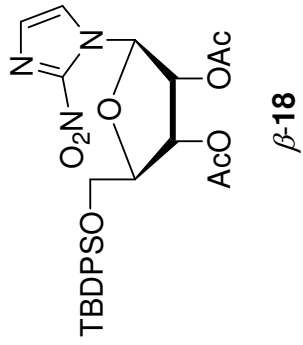
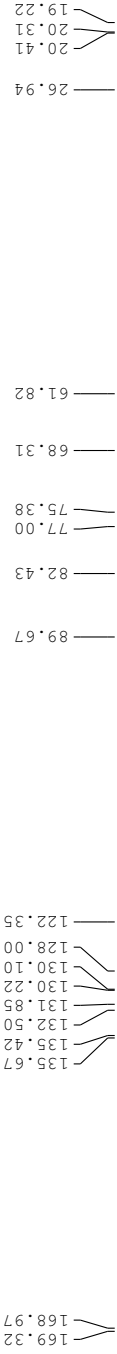




Current Data Parameters
 NAME AW597_W_Beta
 EXPNO 32
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041116
 Time 11.49
 INSTRUM advance400
 PROBHD 5 mm Multinucl
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1020
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 10321.3
 DW 19.950 usec
 DE 6.00 usec
 TE 300.0 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.00000000 sec
 d13 0.00000300 sec
 d20 0.00689655 sec
 DELTA 0.00001401 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 11.00 usec
 P2 22.00 usec
 PL1 -6.00 dB
 SF01 100.6232933 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 3.00 dB
 PL12 22.00 dB
 SF02 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127714 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40





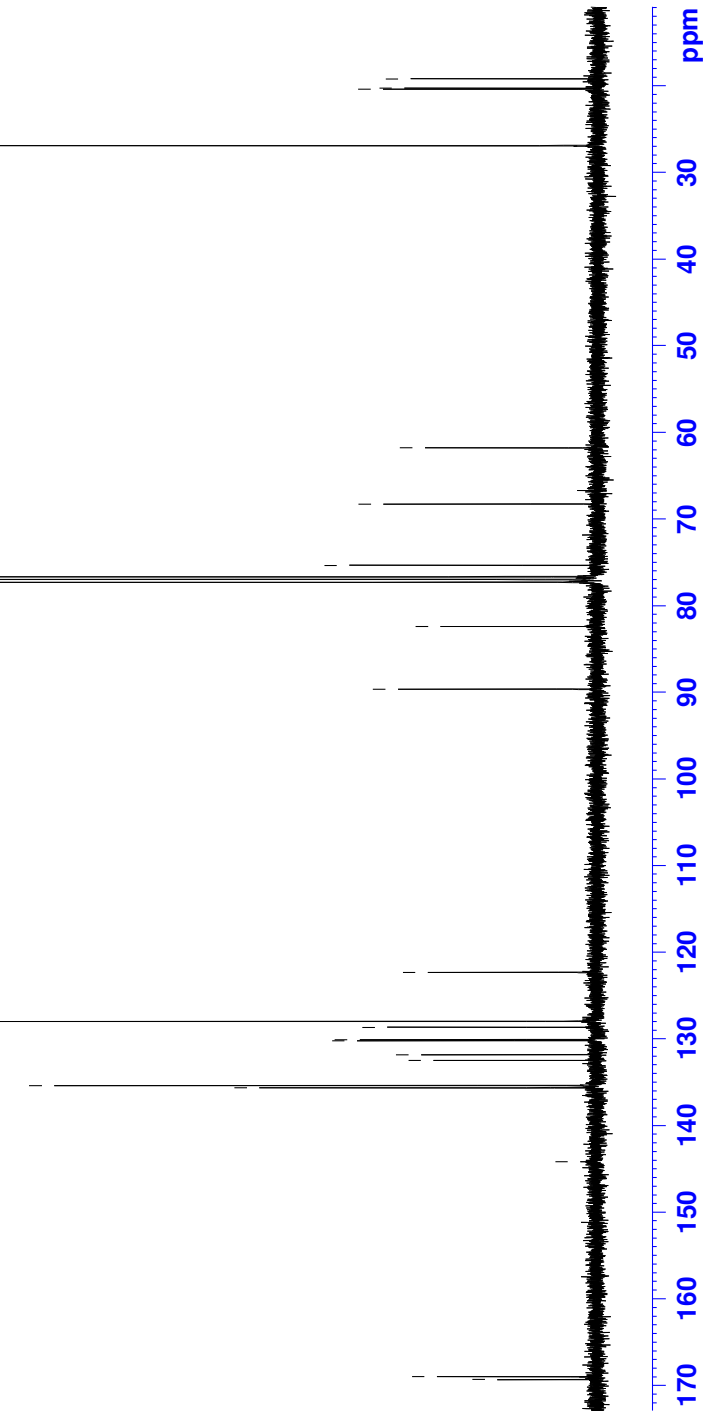
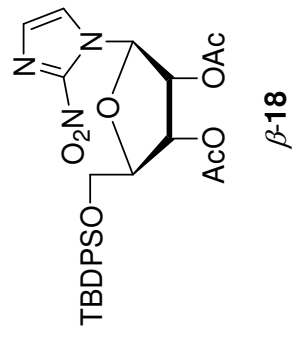
Current Data Parameters
 NAME AW597_W_Beta
 EXPNO 31
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041116
 Time 10.52
 INSTRUM advance400
 PROBHD 5 mm Multinucl
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 1200
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 3251
 DW 20.850 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 11.00 usec
 PL1 -6.00 dB
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P2 100.00 usec
 PL2 3.00 dB
 PL12 22.00 dB
 PL13 24.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127719 MHz
 WDW EM
 SSB 0
 LB 0 0.30 Hz
 GB 0
 PC 1.40



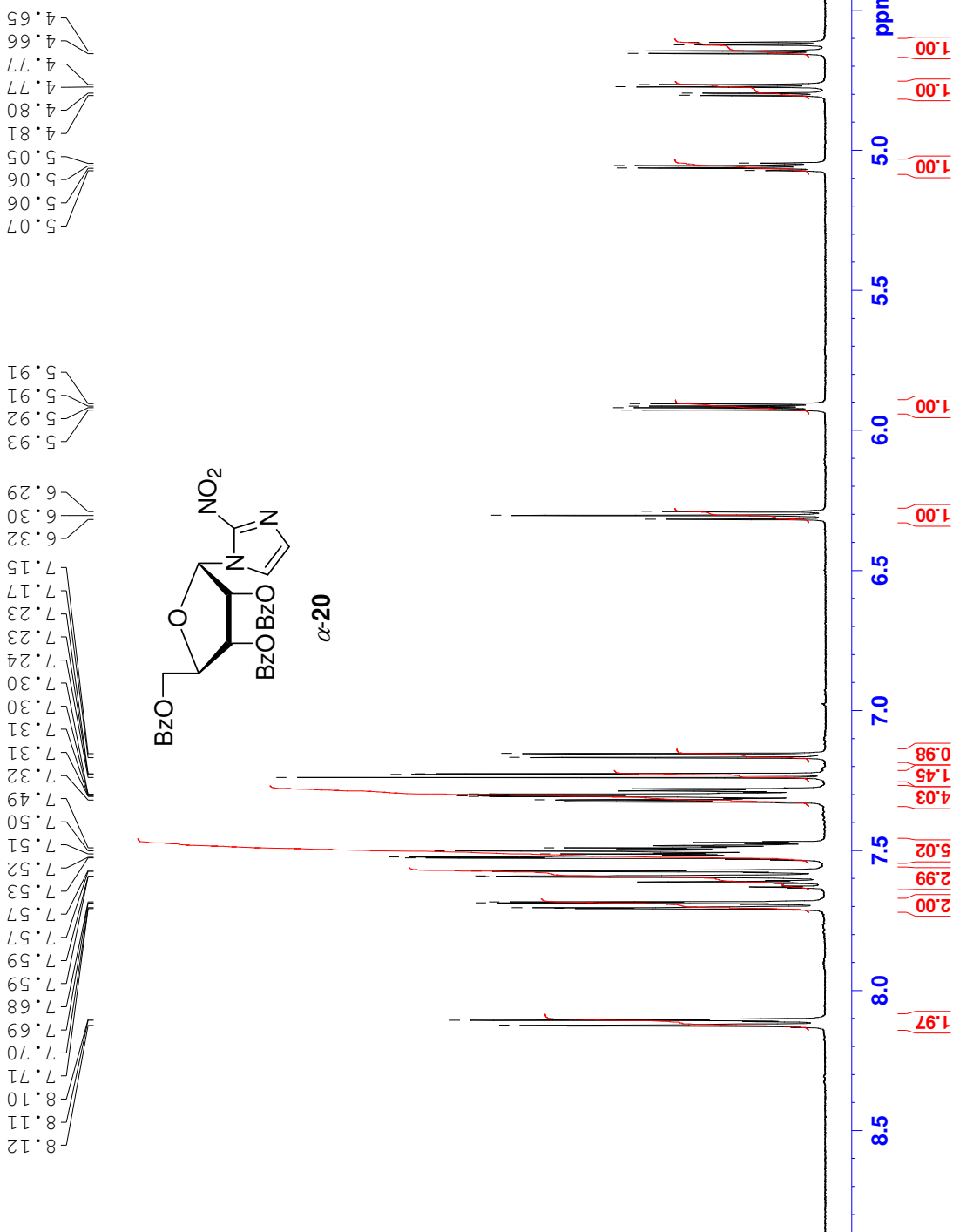


Current Data Parameters
NAME AW574
EXPNO 90
PROCNO 1

F2 - Acquisition Parameters
Date_ 20040812
Time 22.27
INSTRUM avance400
PROBHD 5 mm FAPBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 256
DW 60.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

==== CHANNEL f1 =====
NUC1 1H
P1 8.75 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300171 MHz
WDW no
SSB 0 Hz
LB 0 Hz
GB 0
PC 1.00





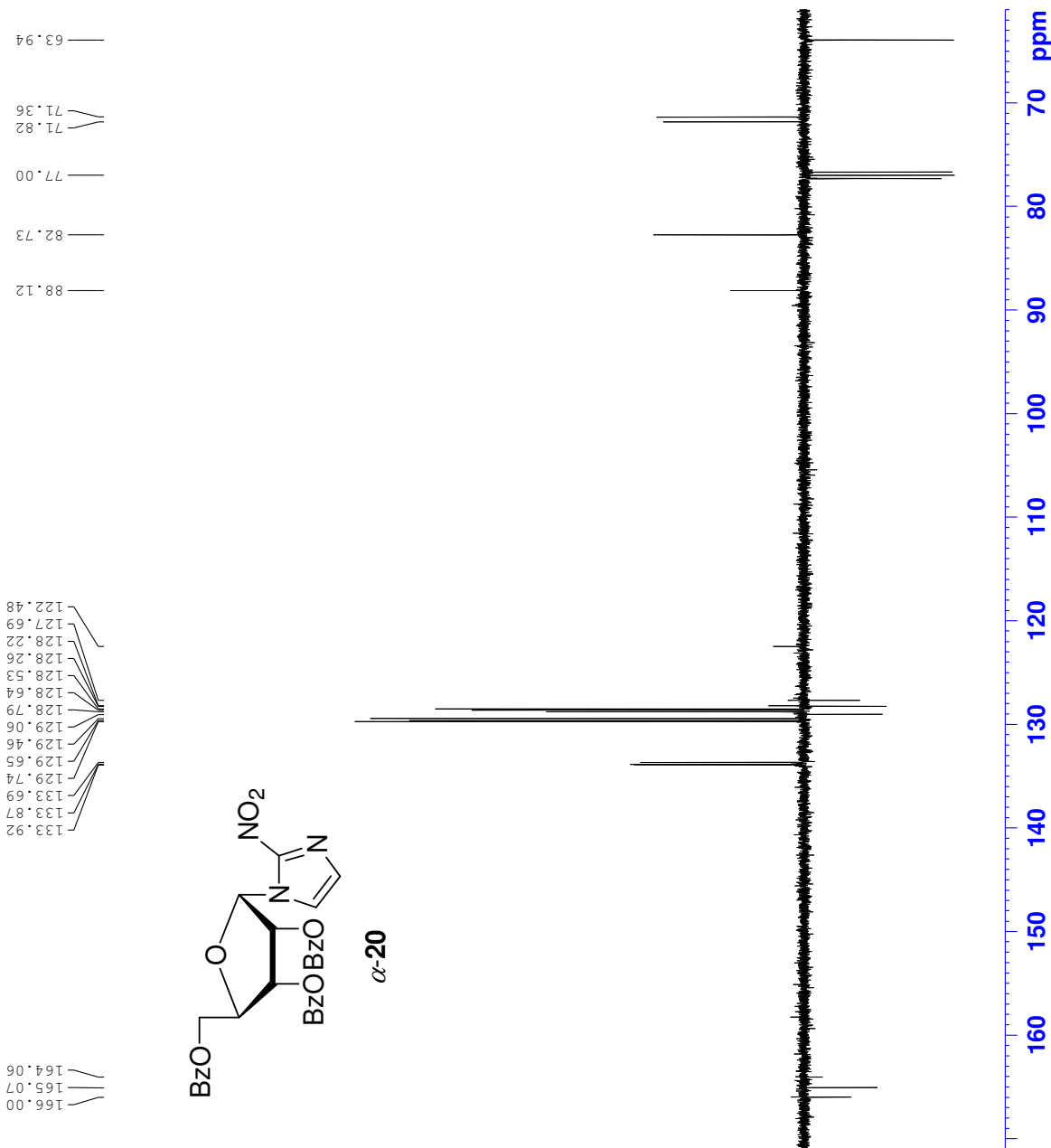
Current Data Parameters
NAME AW574
EXPNO 91
PROCNO 1

F2 - Acquisition Parameters
Date_ 20040812
Time 23.13
INSTRUM avance400
PROBHD 5 mm PABBO BB-
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 800
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 13004
DW 19.950 usec
DE 6.00 usec
TE 300.0 K
CNST2 145.0000000
CNST11 1.0000000
d1 2.00000000 sec
d13 0.00000300 sec
d20 0.00689655 sec
DELTA 0.00001311 sec

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6232933 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127704 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40





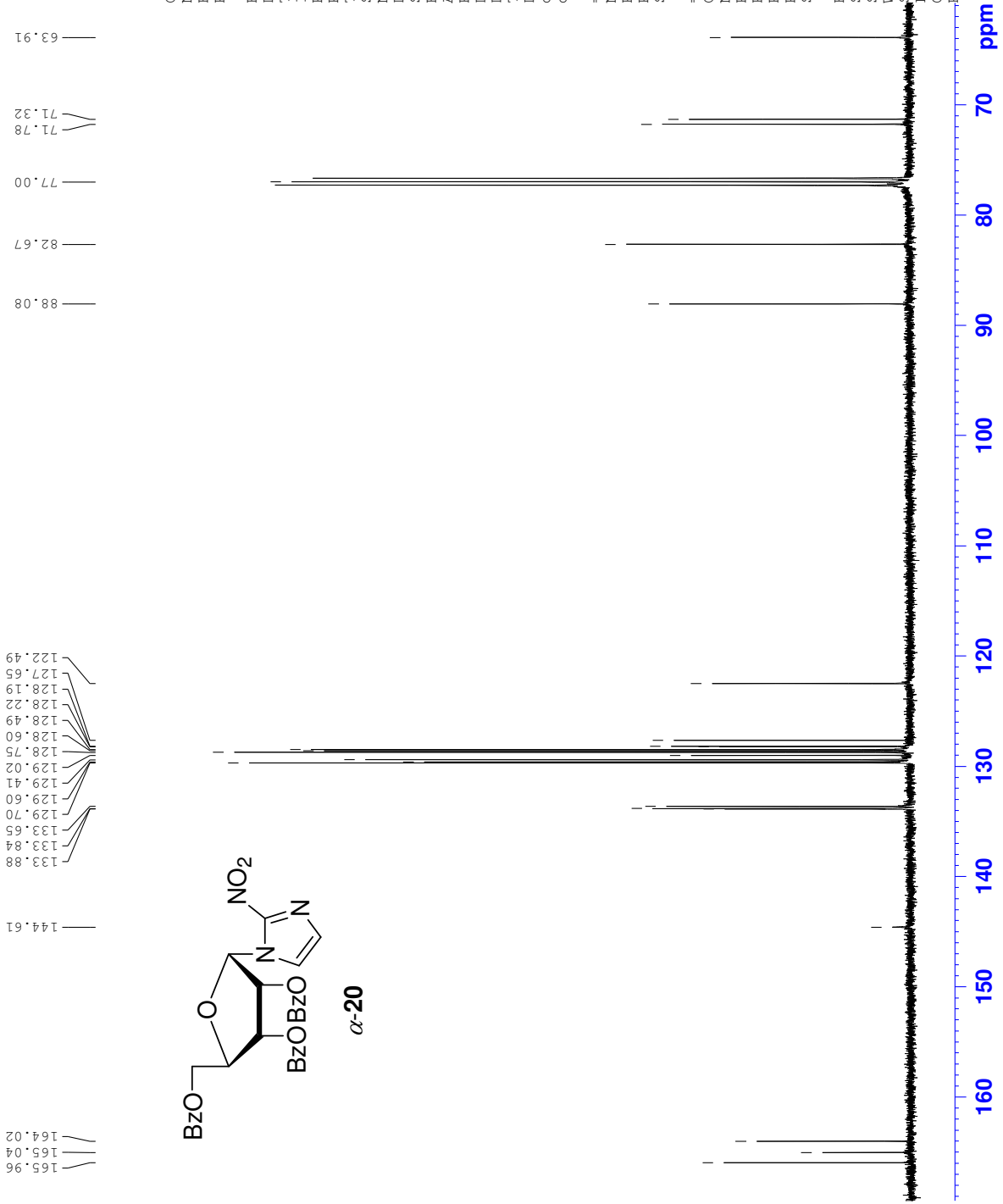
Current Data Parameters
 NAME AW574
 EXPNO 41
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20040817
 Time 9.41
 INSTRUM avance400
 PROBHD 5 mm FAPBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 800
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 3251
 DW 20.850 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.0000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127741 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 1.40

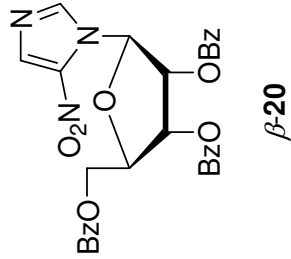




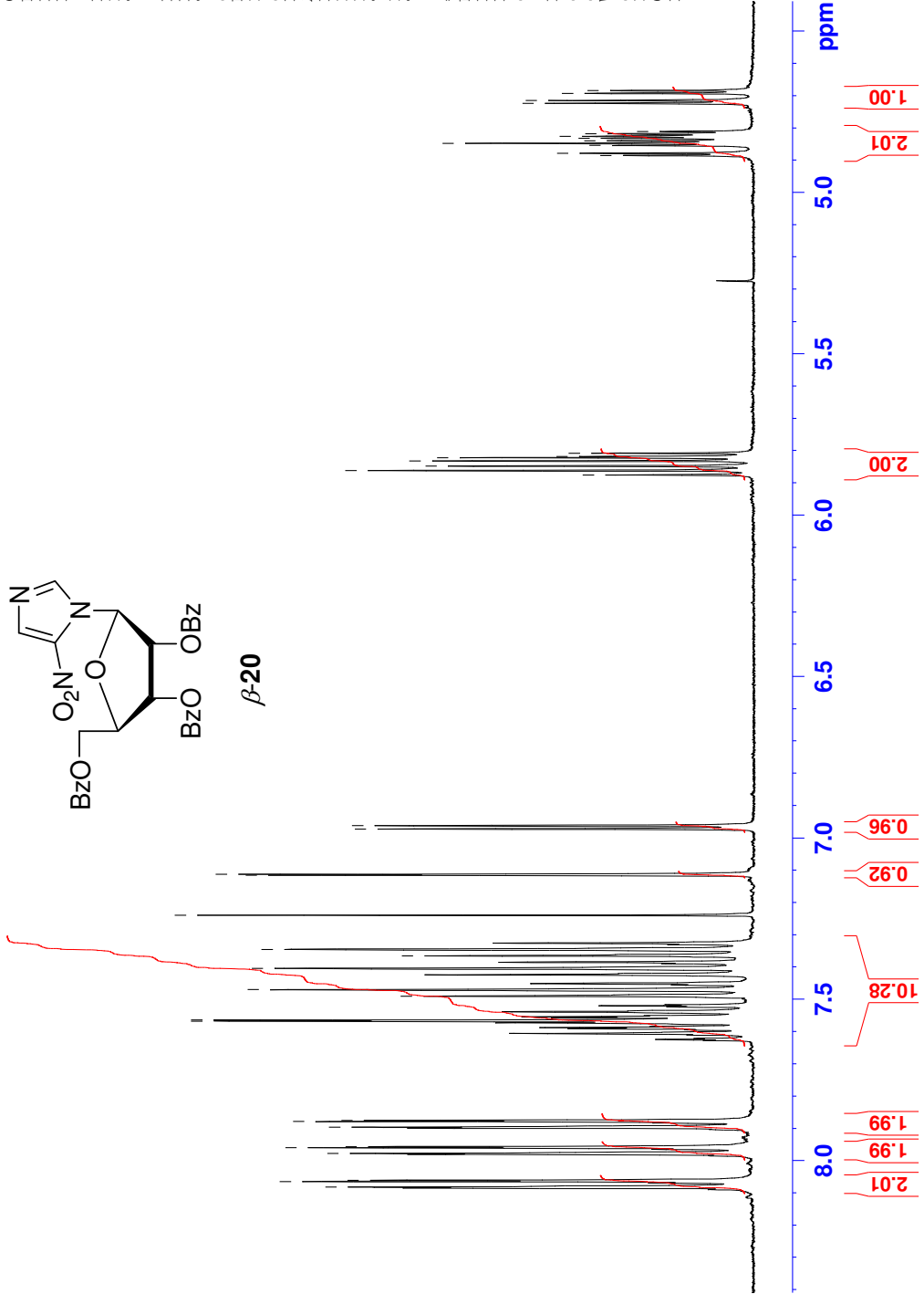
4.89
4.88
4.86
4.85
4.84
4.83
4.83
4.82
4.81
4.72
4.72

5.88
5.86
5.85
5.83
5.82
5.82
5.81

8.07
8.06
7.98
7.96
7.96
7.96
7.90
7.88
7.88
7.57
7.57
7.49
7.47
7.41
7.37
7.35
7.24
7.12
7.11
6.97
6.96



Current Data Parameters
 NAME AW718
 EXPNO 10
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20080924
 Time_ 10.57
 INSTRUM advance400
 PROBHD 5 mm BBO BB-IH
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 287.4
 DW 60.400 usec
 DE 6.00 usec
 TE 300.2 K
 D1 1.00000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SF01 400.1324710 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300173 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





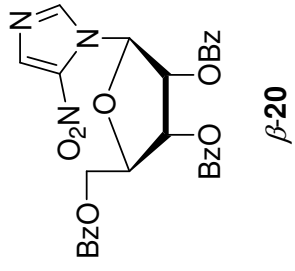
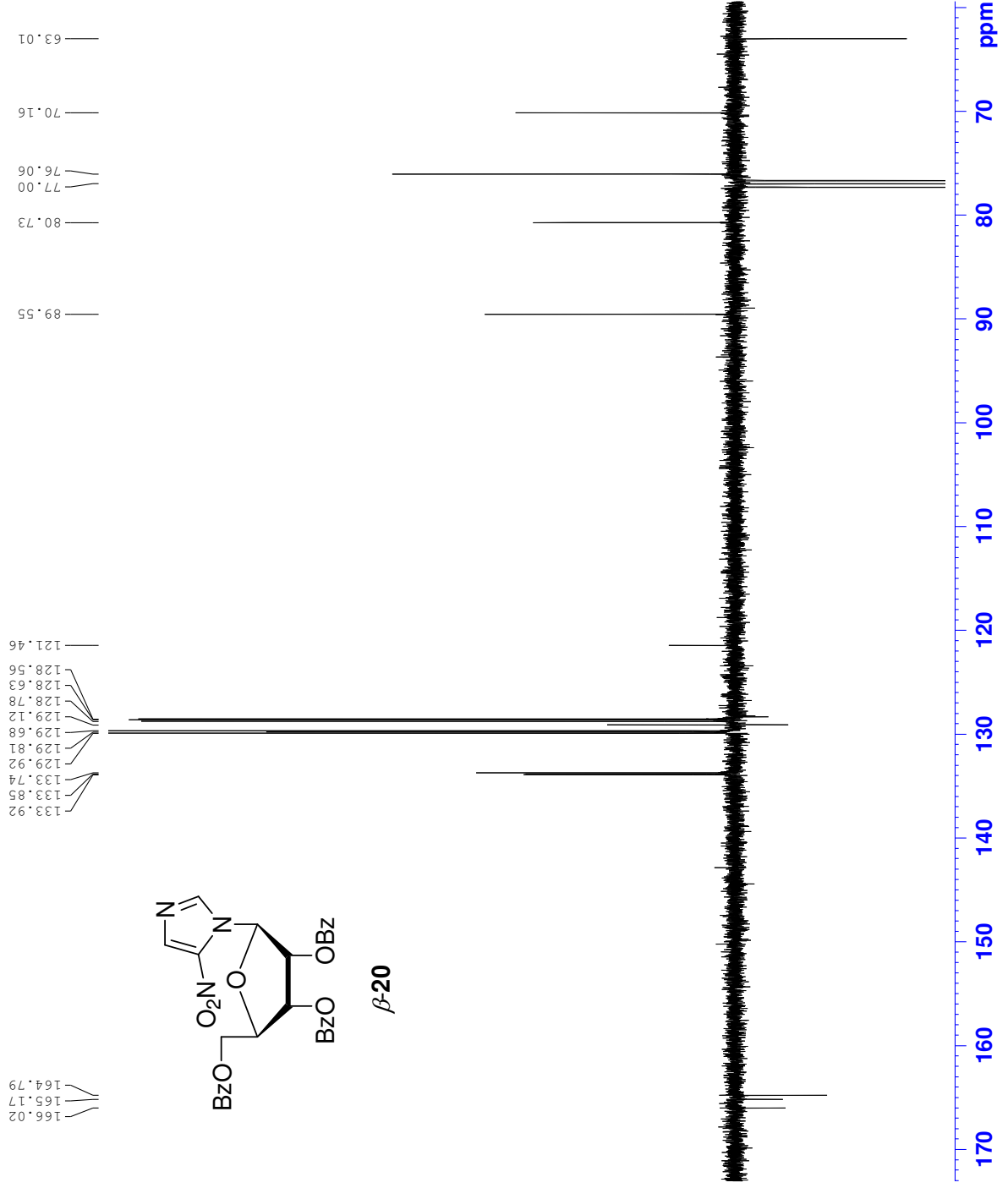
Current Data Parameters
 NAME AW718
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20080924
 Time 12.06
 INSTRUM avance400
 PROBHD 5 mm BBO BB-IH
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1200
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 7298.2
 DW 19.950 usec
 DE 6.00 usec
 TE 300.2 K
 CNST2 145.000000
 CNST11 1.0000000
 D1 2.0000000 sec
 d20 0.0068965 sec
 DELTA 0.00001311 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 P2 20.60 usec
 PL1 -1.00 dB
 SFO1 100.6233329 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P1 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127707 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40





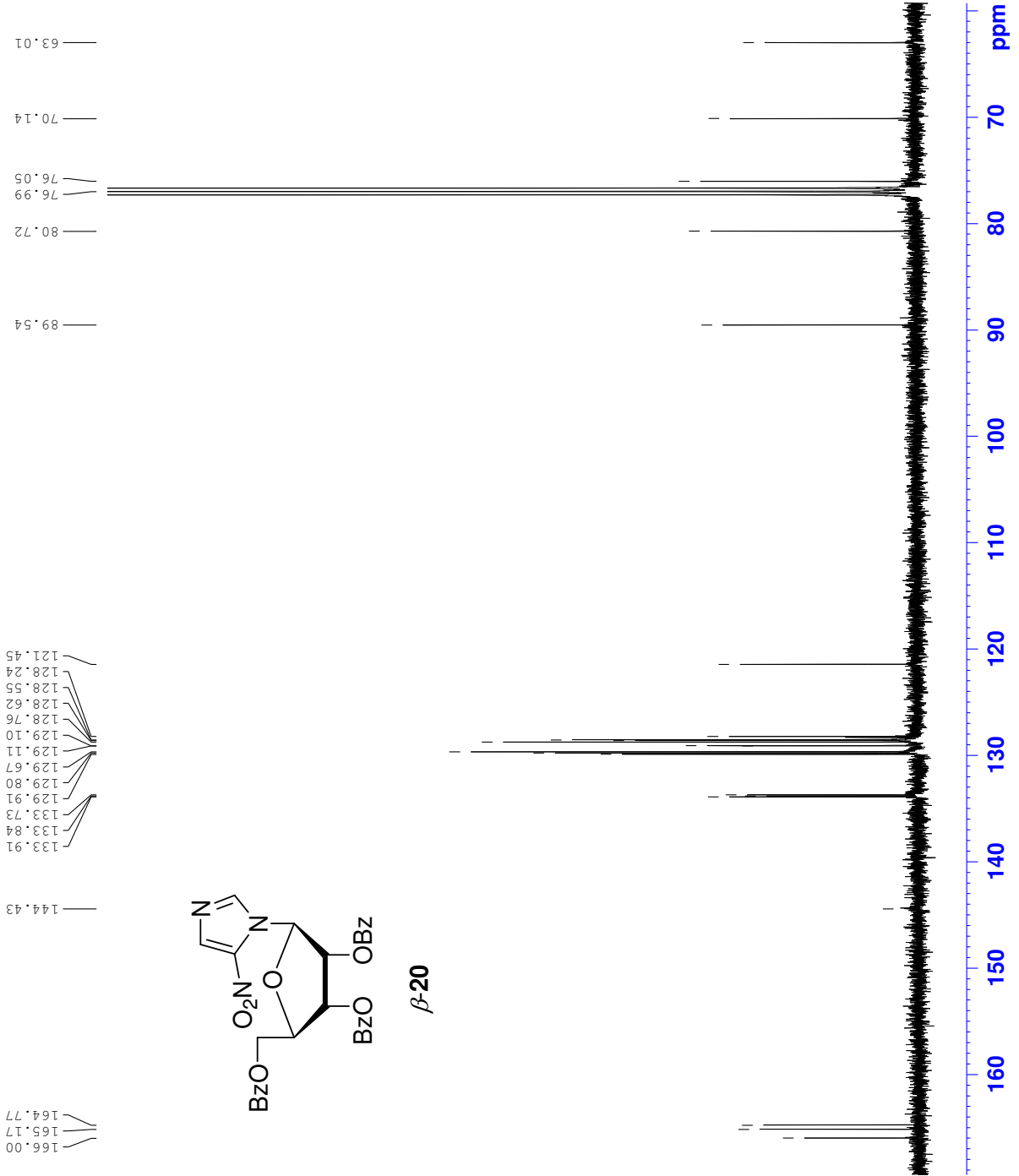
Current Data Parameters
 NAME AW718
 EXPNO 90
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20080925
 Time 15.21
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 ID 65536
 SOLVENT CDC13
 NS 1024
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.36664756 sec
 RG 8192
 DW 20.850 usec
 DE 6.00 usec
 TE 300.2 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127716 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40



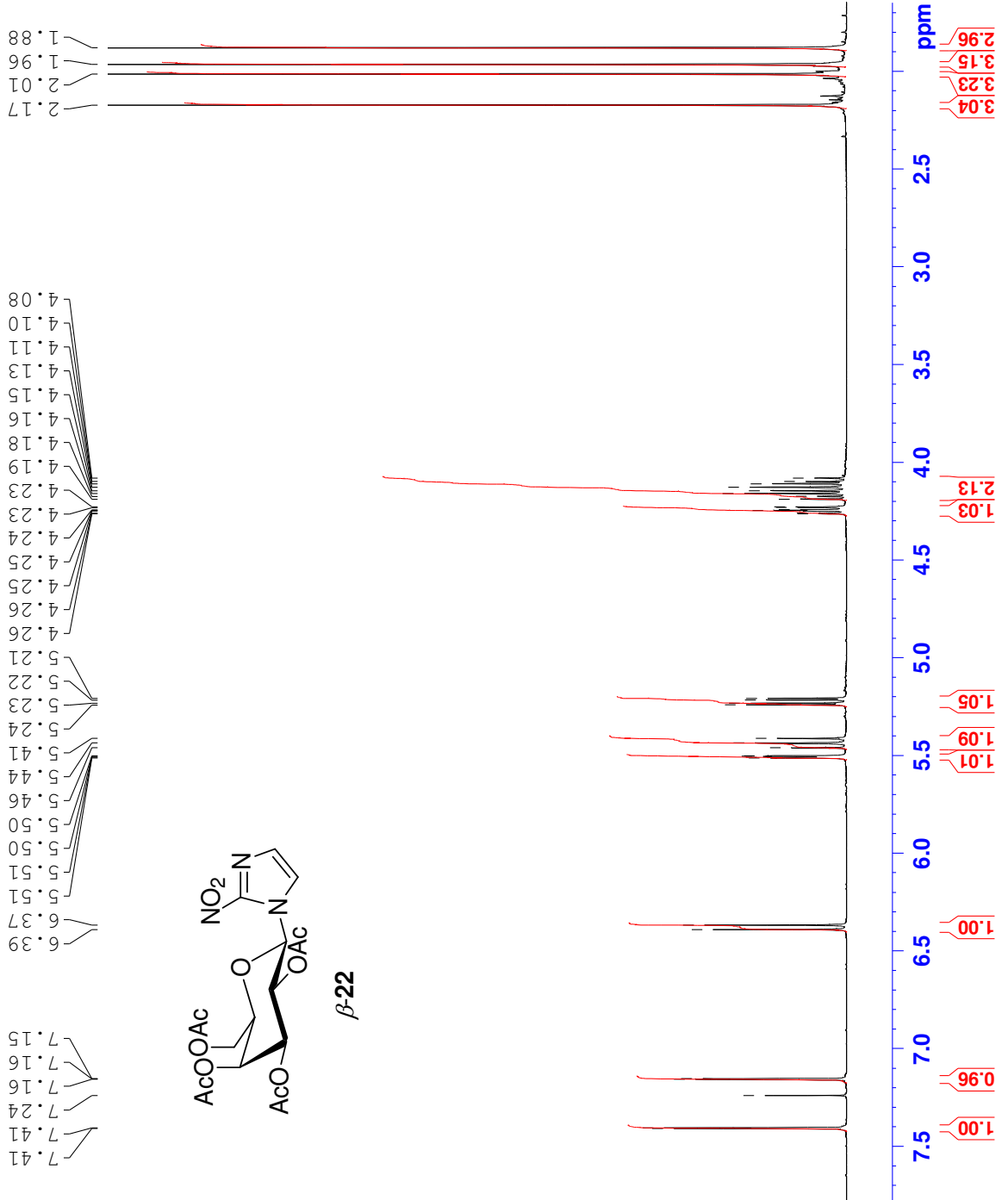


Current Data Parameters
 NAME AM642
 EXPNO 110
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20050413
 Time_ 17.14
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 128
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300173 MHz
 WDW no
 SSB 0 Hz
 LB 0
 GB 0
 PC 1.00





```

Current Data Parameters
NAME          AW642
EXPNO         111
PROCNO        1

F2 - Acquisition Parameters
Date_         20050413
Time          18.11
INSTRUM       avance400
PROBHD        5 mm BBO BB-1H
PULPROG       jmod
TD            65536
SOLVENT       CDCl3
NS            1000
DS            2
SMH           25062.656 Hz
FIDRES        0.382426 Hz
AQ            1.3074932 sec
RG            6502
DW            19.950 usec
DE            6.00 usec
TE            300.0 K
CNST2         145.0000000
CNST11        1.0000000
d1            2.00000000 sec
d13           0.00000300 sec
d20           0.00689655 sec
DELTA         0.00001311 sec

===== CHANNEL f1 =====
NUC1          13C
P1            10.30 usec
P2            20.60 usec
PL1           -1.00 dB
SFO1         100.6232933 MHz

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         100.00 usec
PL2           -3.00 dB
PL12          16.00 dB
SFO2         400.1316005 MHz

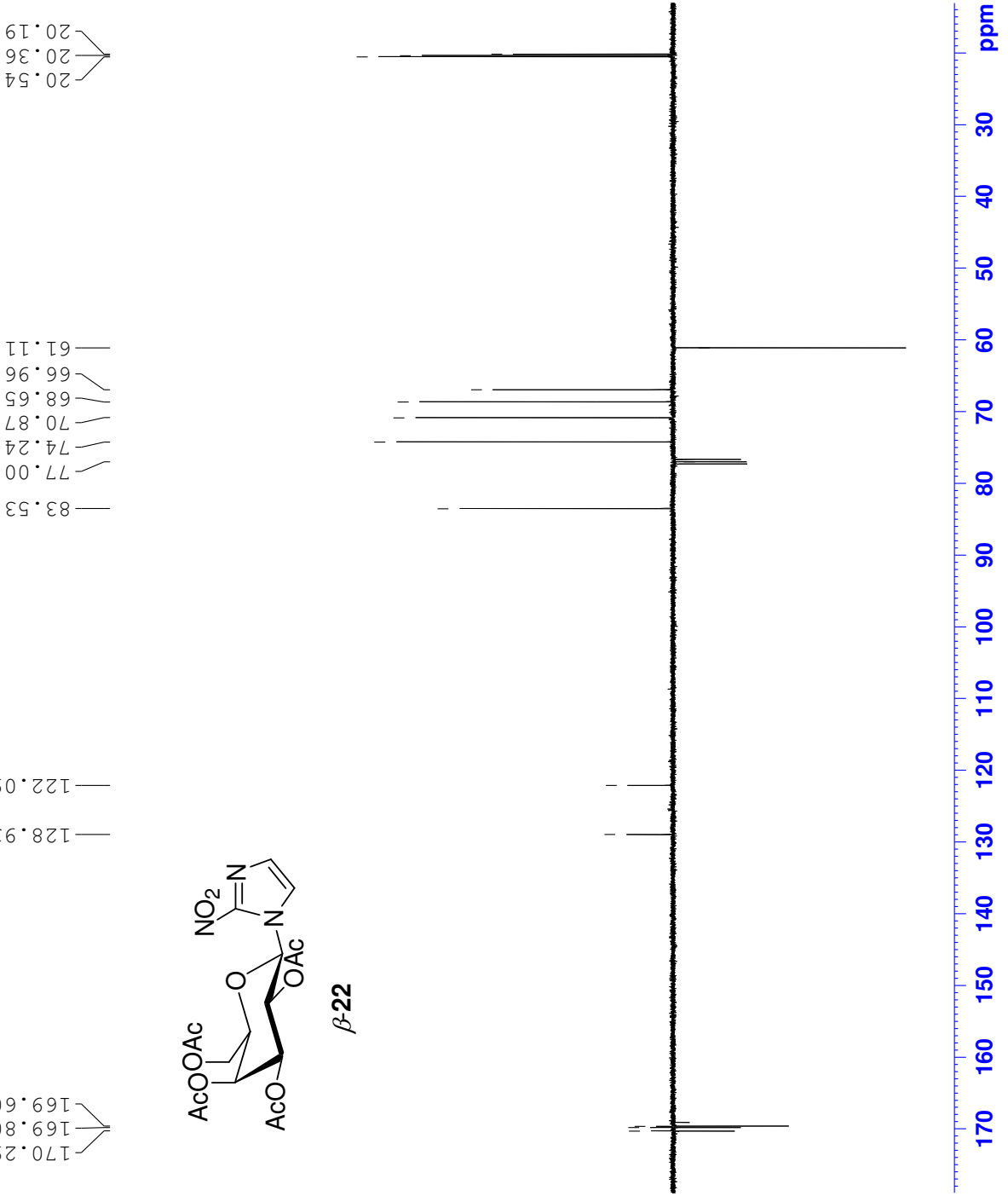
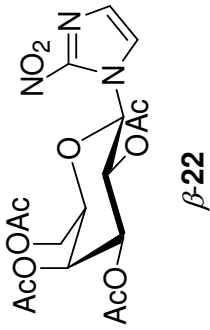
F2 - Processing parameters
SI            32768
SF            100.6127733 MHz
WDW           no
SSB           0
LB            0 Hz
GB            0
PC            1.40
    
```

20.54
20.36
20.19

83.53
77.00
74.24
70.87
68.65
66.96
61.11

128.93
122.09

170.29
169.80
169.60





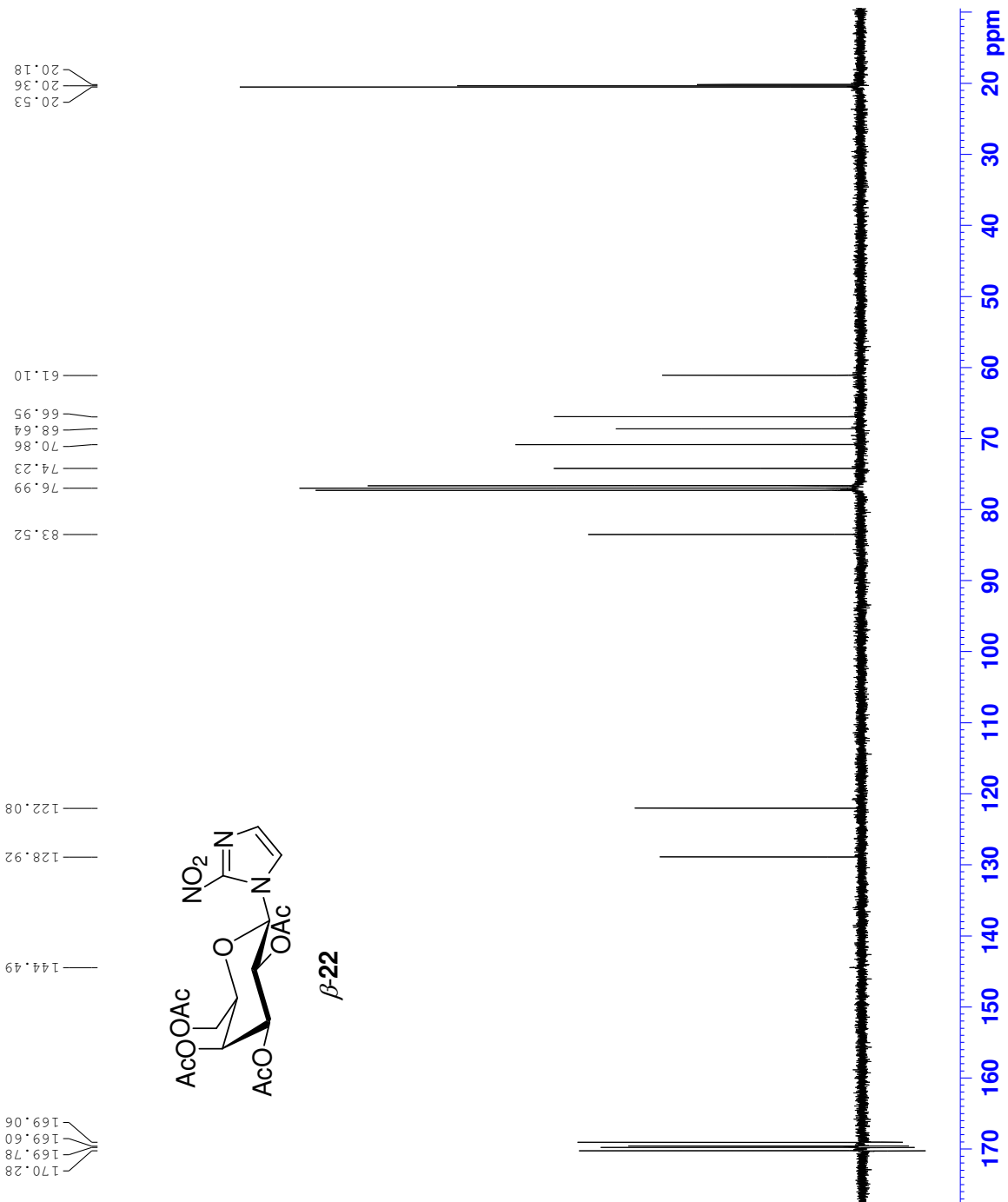
Current Data Parameters
NAME AW642
EXPNO 112
PROCNO 1

F2 - Acquisition Parameters
Date_ 20050413
Time 19.11
INSTRUM avance400
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1024
DS 4
SMH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 3649.1
DW 20.850 usec
DE 6.00 usec
TE 300.0 K
D1 2.0000000 sec
d11 0.0300000 sec
d12 0.0000200 sec

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
PL1 -1.00 dB
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 20.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127741 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40





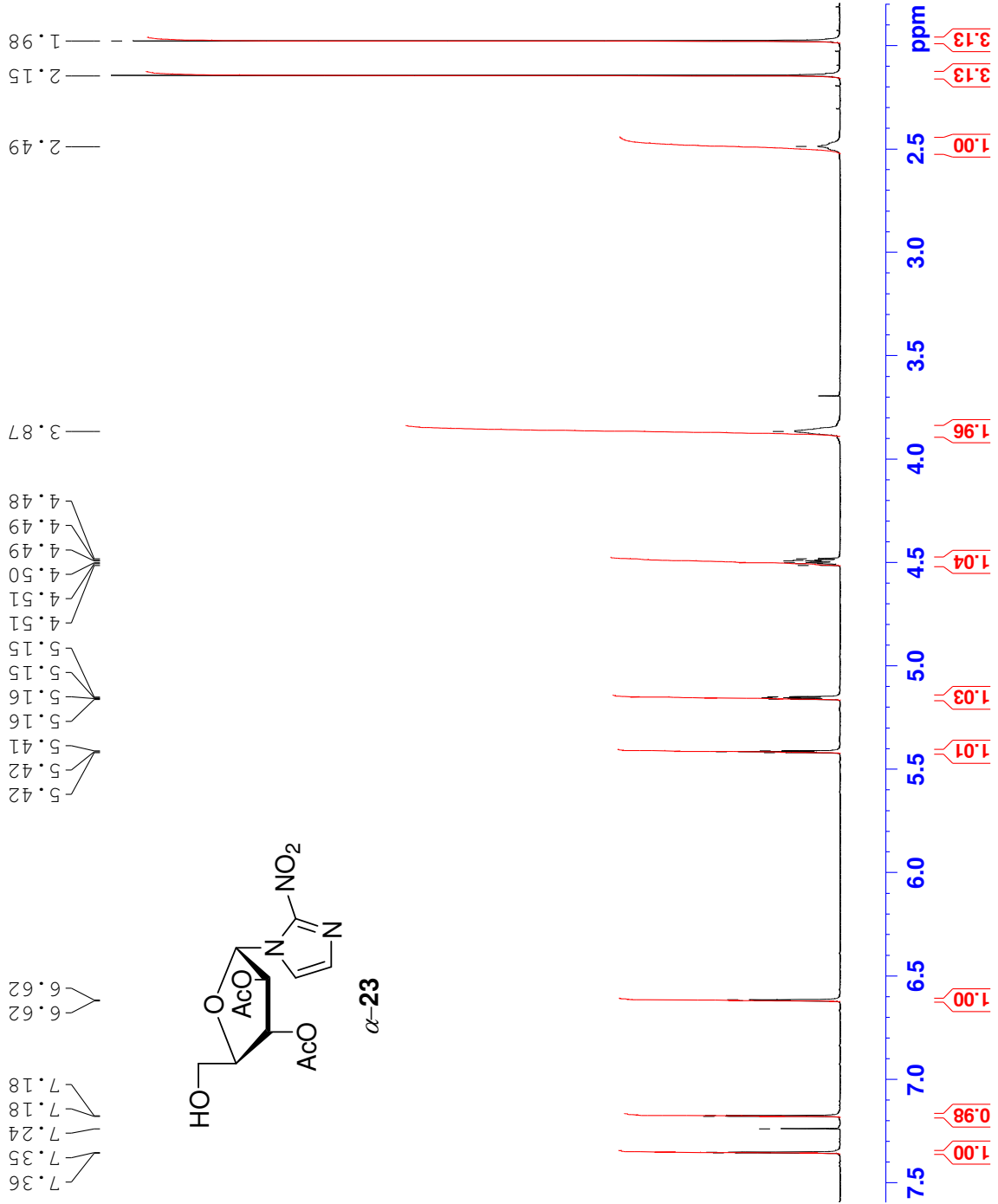
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Current Data Parameters
NAME      AW567
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20050913
Time     10.33
INSTRUM  avance400
PROBHD   5 mm BBO BB-1H
PULPROG  zg30
TD       65536
SOLVENT  CDCl3
NS       16
DS       2
SWH      8278.146 Hz
FIDRES   0.126314 Hz
AQ       3.9584243 sec
RG       181
DE       60.400 usec
TE       300.2 K
D1       1.00000000 sec
TD0      1

===== CHANNEL f1 =====
NUC1     1H
P1       8.75 usec
PL1      -3.00 dB
SFO1     400.1324710 MHz

F2 - Processing parameters
SI       32768
SF       400.1300173 MHz
WDW      no
SSB      0
LB       0 Hz
GB       0
PC       1.00
    
```





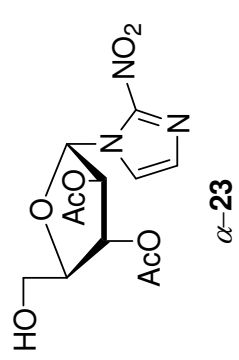
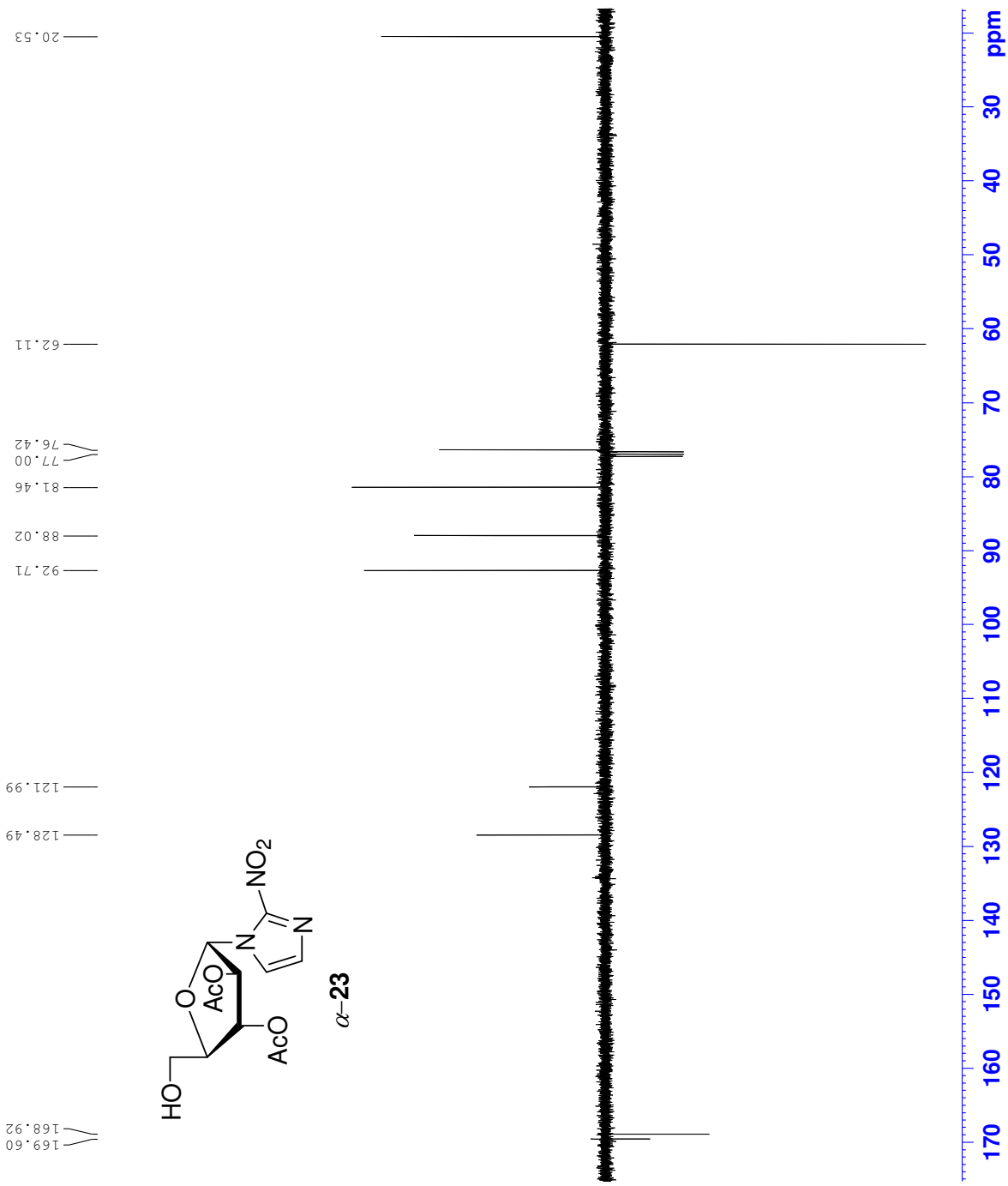
Current Data Parameters
NAME AW567
EXENO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20050913
Time_ 10.40
INSRUM avance400
PROBHD 5 mm BBO BB-LH
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 121
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 7298.2
DE 19.950 usec
TE 300.2 K
CNS12 145.000000
CNS11 1.0000000
D1 2.0000000 sec
d20 0.00689655 sec
DELTA 0.00001311 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6233329 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127737 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40





20.55
20.54

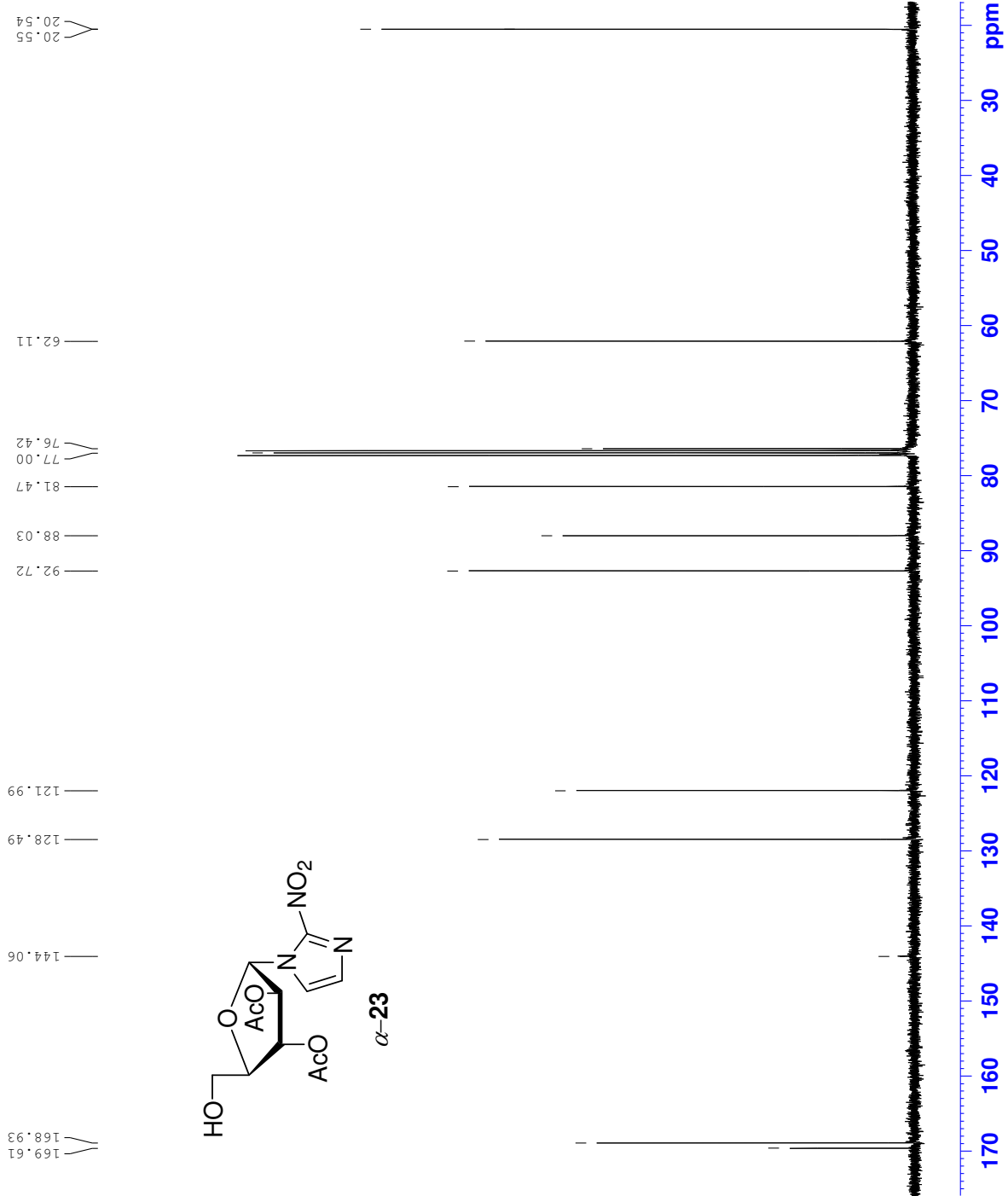
Current Data Parameters
NAME AW567_W1
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters
Date_ 20050913
Time 10.43
INSTRUM avance400
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 622
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 4096
DW 20.850 usec
DE 6.00 usec
TE 300.2 K
D1 2.0000000 sec
d11 0.0300000 sec
DELTA 1.8999998 sec
TDO 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
PL1 -1.00 dB
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 20.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127731 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.40



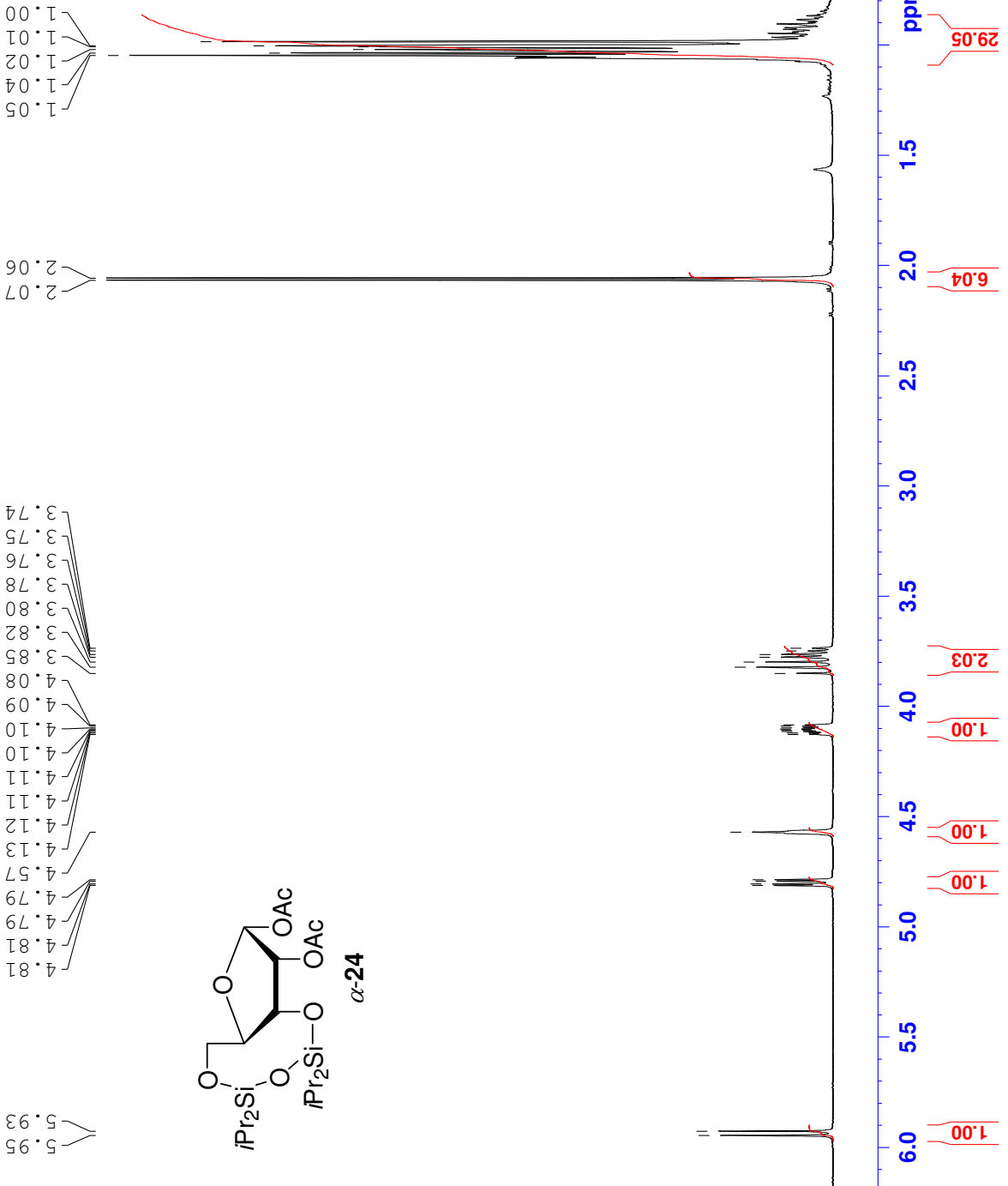


Current Data Parameters
 NAME ZH 813W alpha
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20090317
 Time 11.20
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 114
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300170 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





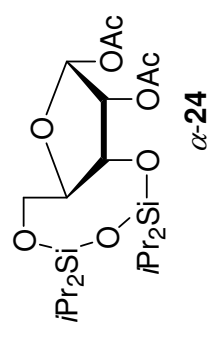
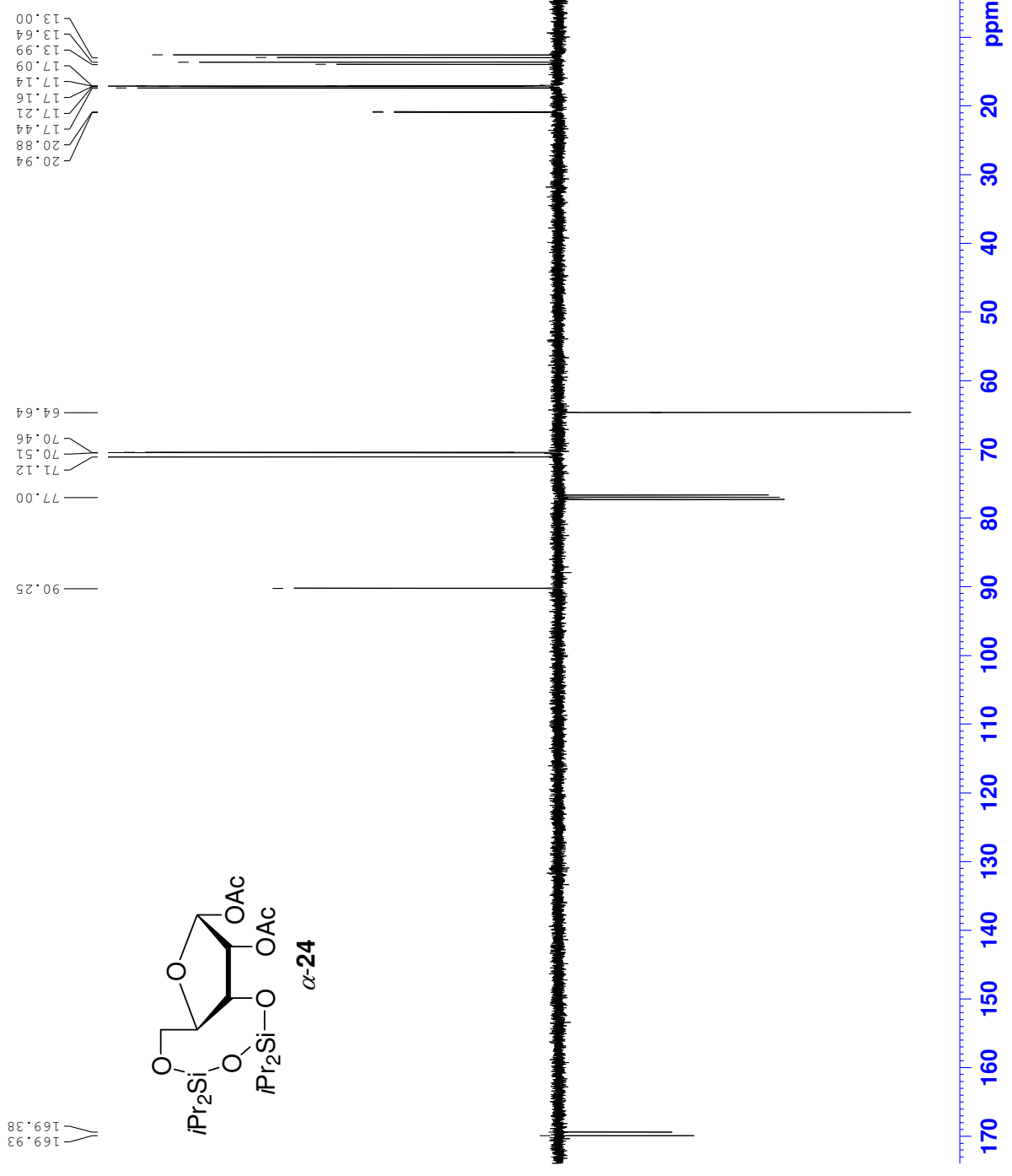
Current Data Parameters
NAME ZH 813W alpha
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090317
Time 11.57
INSTRUM avances400
PROBHD 5 mm BBO BB-1H
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 648
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 4597.6
DW 19.950 usec
DE 6.00 usec
TE 300.2 K
CNS12 145.0000000
CNS11 1.0000000
D1 2.0000000 sec
d20 0.00689655 sec
DELTA 0.00001311 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6233329 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127703 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.40





Current Data Parameters
 NAME AM699_Alpha
 EXPNO 70
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20060119
 Time 15.49
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 114
 DW 60.400 usec
 DE 6.00 usec
 TE 300.2 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

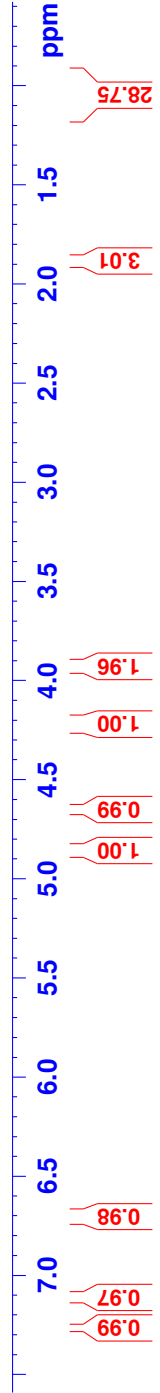
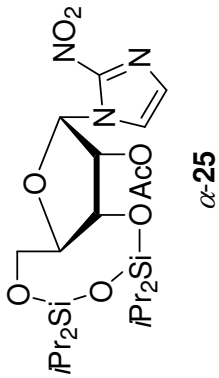
F2 - Processing parameters
 SI 32768
 SF 400.1300171 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1.11
1.04
1.03
1.02
1.01
1.01

1.89

4.87
4.85
4.84
4.65
4.65
4.64
4.25
4.25
4.24
4.23
4.22
4.21
4.20
3.94
3.92

7.26
7.26
7.24
7.11
7.11
7.11
6.72
6.69





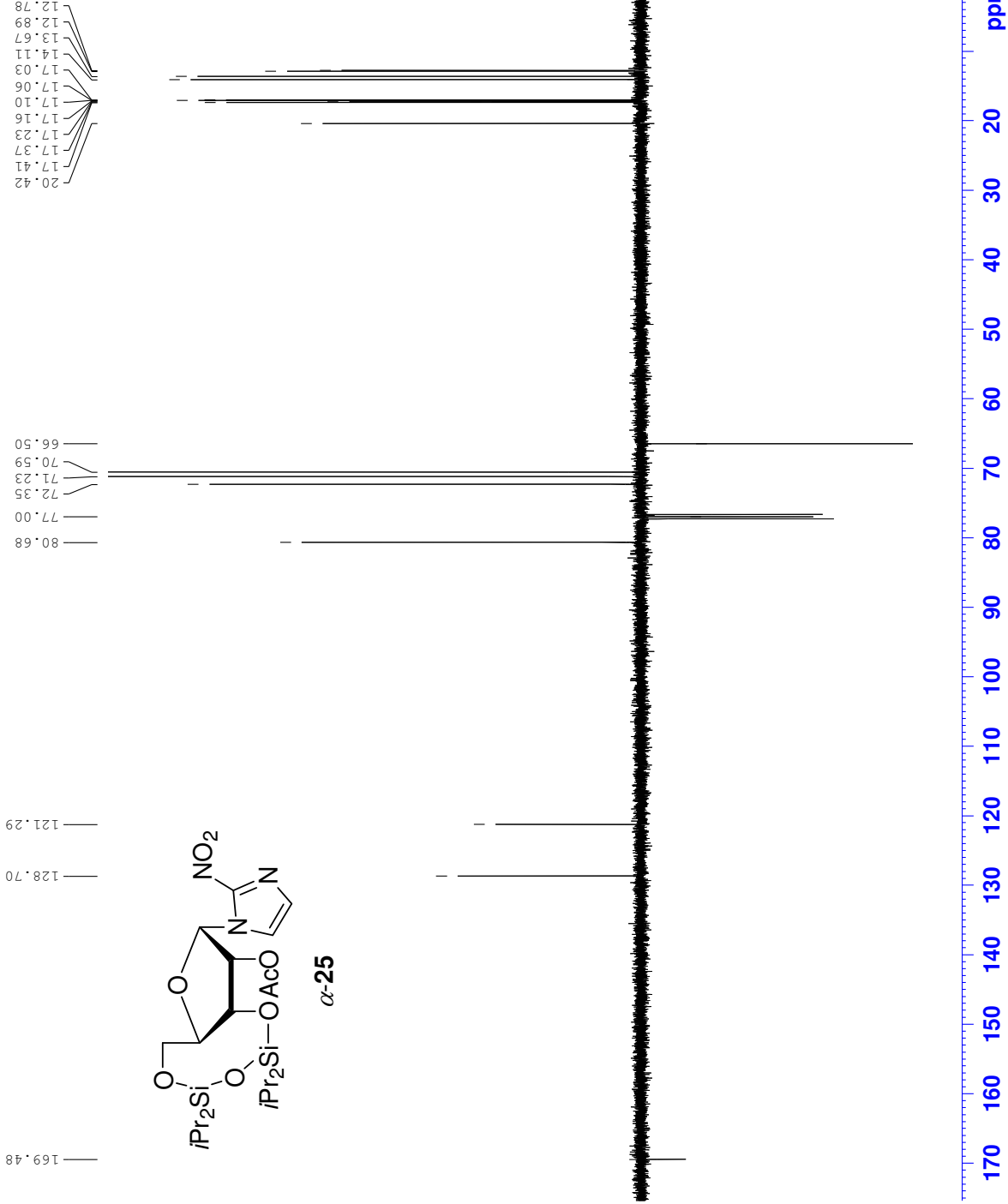
Current Data Parameters
 NAME AW699_Alpha
 EXPNO 71
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20060119
 Time 16.36
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 800
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 14596.5
 DW 19.950 usec
 DE 6.00 usec
 TE 300.2 K
 CNST2 145.000000
 CNST11 1.000000
 D1 2.0000000 sec
 d20 0.00689655 sec
 DELTA 0.00001311 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 20.60 usec
 PL2 -1.00 dB
 SFO1 100.6233329 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127709 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40

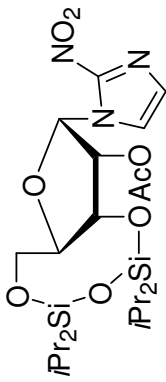




12.89
13.67
14.11
17.02
17.06
17.10
17.16
17.22
17.37
17.40
20.42

66.49
70.59
71.22
72.35
77.00
80.68

121.29
128.70
144.88
169.49

 α -25

Current Data Parameters
 NAME AW699_Alpha
 EXPNO 72
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20060119
 Time 17.22
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 800
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 3649.1
 DM 20.850 usec
 DE 6.00 usec
 TE 300.2 K
 d1 2.0000000 sec
 d11 0.0300000 sec
 DELTA 1.8999998 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127712 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 1.40

ppm



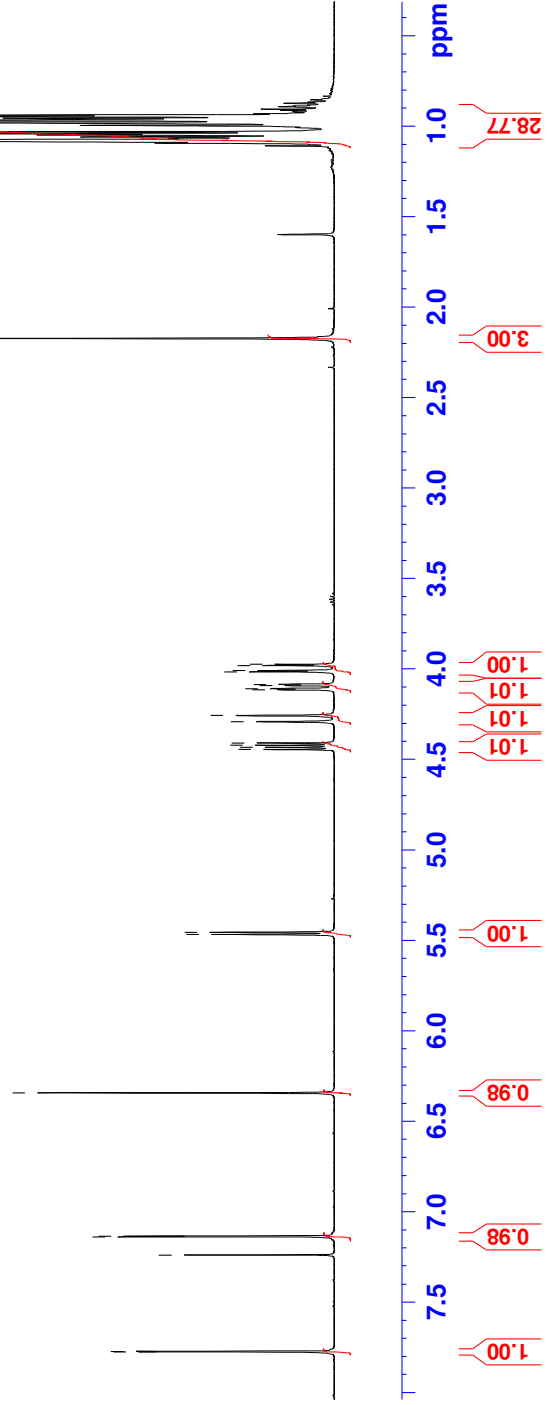
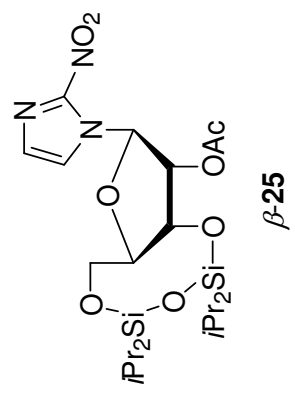
Current Data Parameters
NAME AM699_Beta
EXPNO 150
PROCNO 1

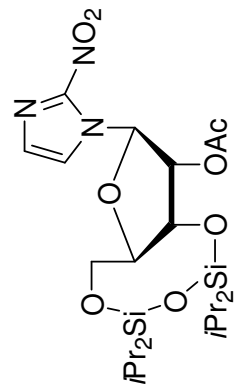
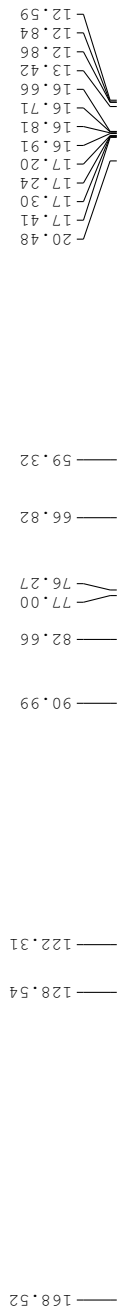
F2 - Acquisition Parameters
Date_ 20060119
Time 2.02
INSTRUM advance400
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 128
DW 60.400 usec
DE 6.00 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 8.75 usec
PL1 -3.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.00

7.78
7.77
7.24
7.14
7.14
6.34
5.47
5.46
4.45
4.43
4.42
4.41
4.29
4.26
4.12
4.11
4.09
4.09
4.02
4.01
3.98
3.98
1.08
1.08
1.08
1.04
1.03
0.98
0.98
0.97
0.96
0.95





Current Data Parameters
 NAME AW699_Beta
 EXPNO 151
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20060119
 Time 2.48
 INSTRUM avance400
 PROBHD 5 mm BBO BB-1H
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 800
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 14596.5
 DW 19.950 usec
 DE 6.00 usec
 TE 300.2 K
 CNST2 145.0000000
 CNST11 1.0000000
 D1 2.0000000 sec
 d20 0.00689655 sec
 DELTA 0.00001311 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 P2 20.60 usec
 PL1 -1.00 dB
 SFO1 100.6233329 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127708 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.40



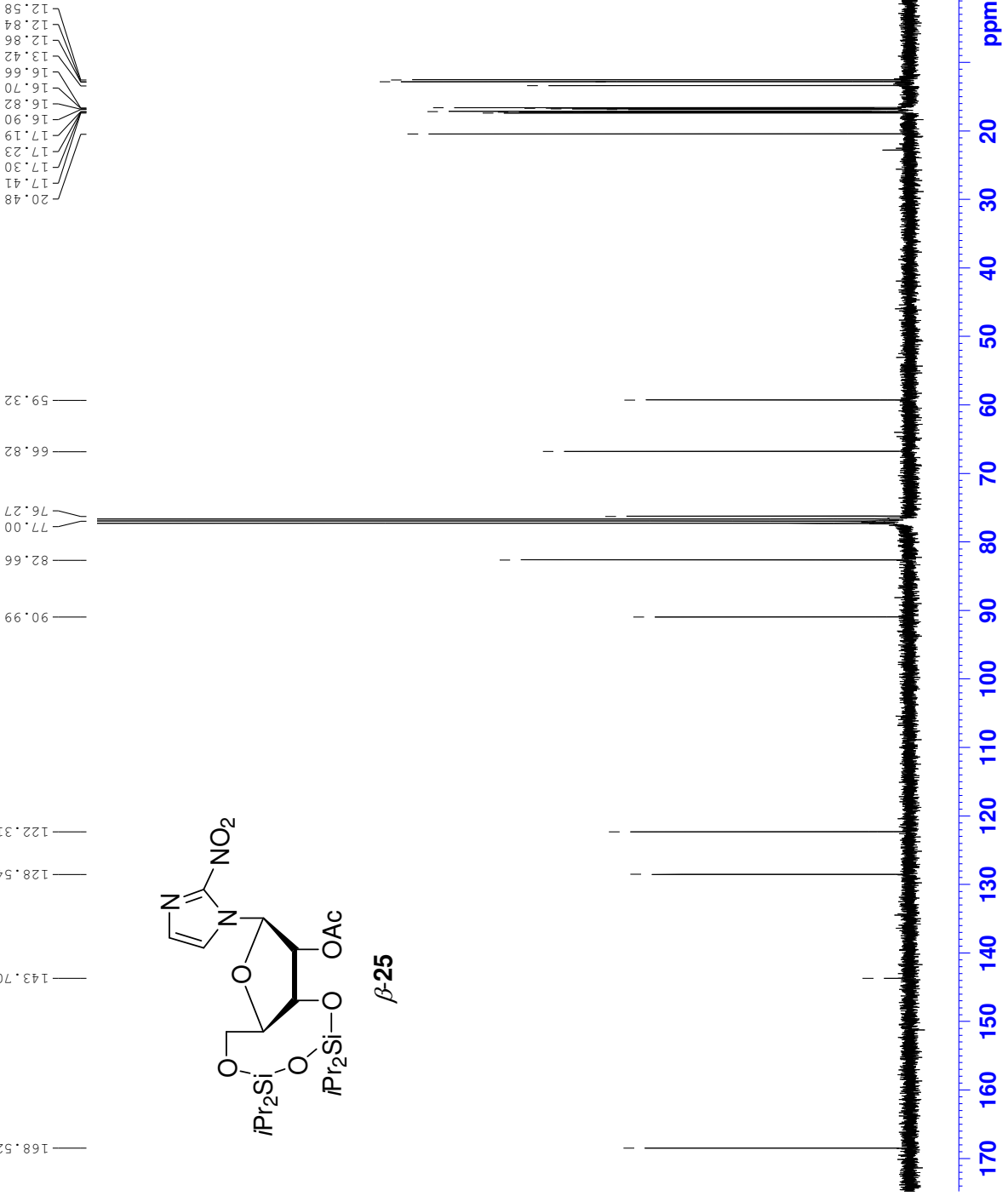
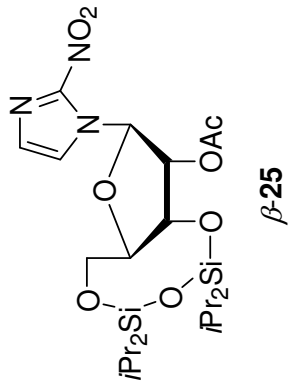
20.48
17.41
17.30
17.23
17.19
16.90
16.82
16.70
16.66
13.42
12.86
12.84
12.58

90.99
82.66
77.00
76.27
66.82
59.32

168.52
143.70
128.54
122.31

Current Data Parameters
 NAME AW699_Beta
 EXPNO 152
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20060119
 Time 3.35
 INSTRUM advance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 800
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 10321.3
 DW 20.850 usec
 DE 6.00 usec
 TE 300.2 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127711 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40



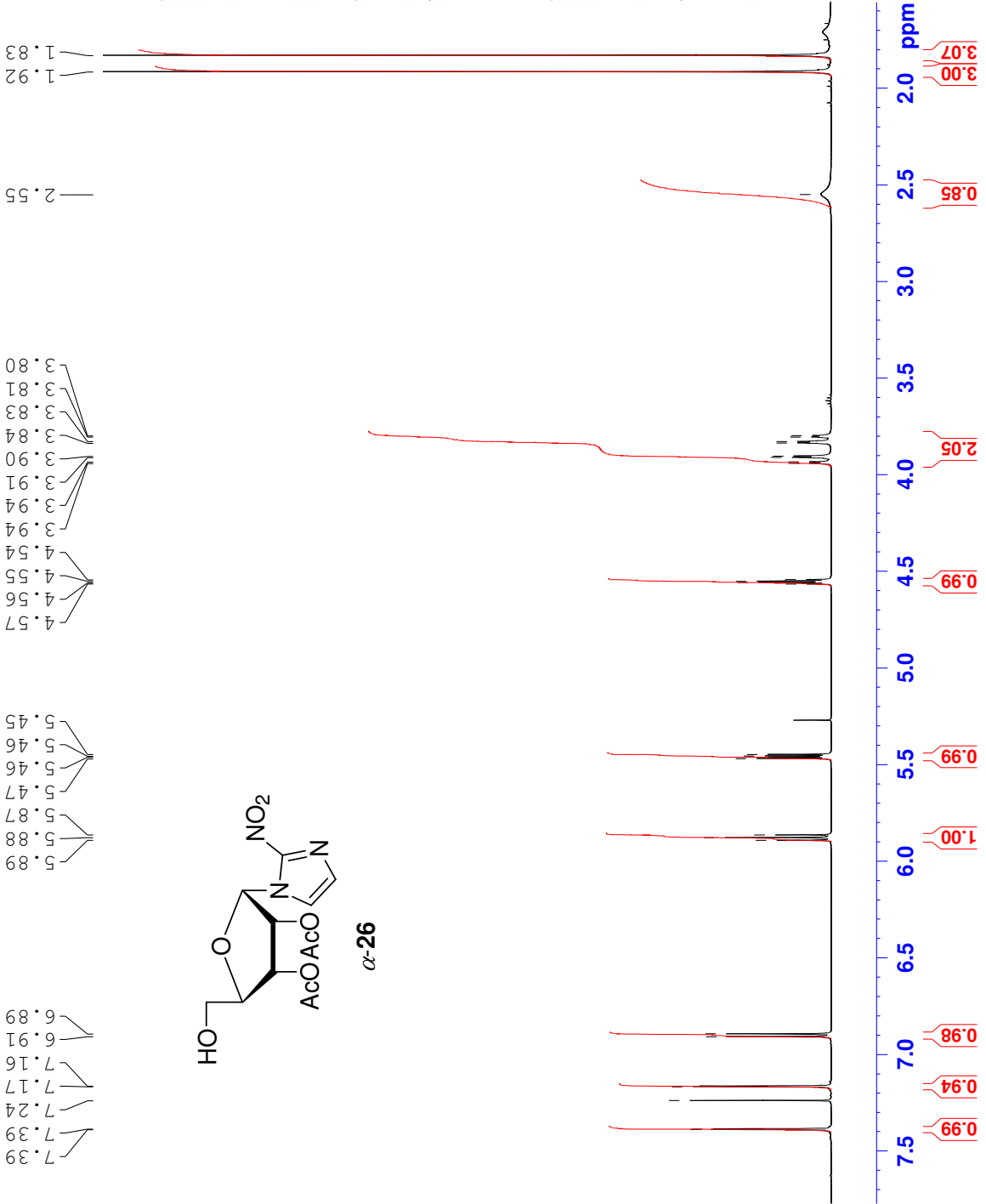


Current Data Parameters
 NAME AW581_W_Alpha
 EXNO 110
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20040923
 Time_ 13.31
 INSTRUM avance400
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 203.2
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300173 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





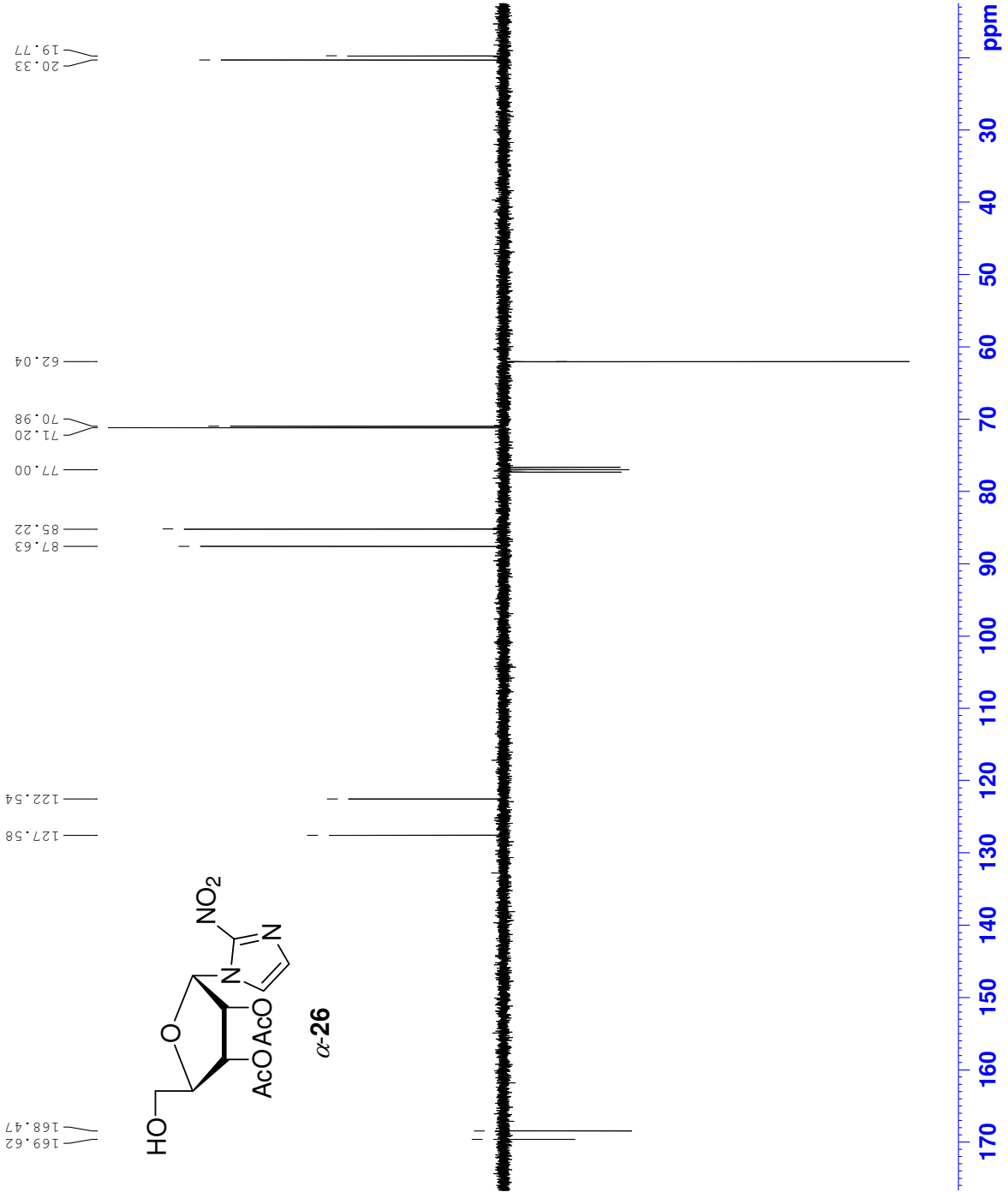
Current Data Parameters
NAME AW581_W_Alpha
EXPNO 41
PROCNO 1

F2 - Acquisition Parameters
Date_ 20060403
Time 14.44
INSTRUM advance400
PROBHD 5 mm BBO BB-1H
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 394
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 9195.2
DW 19.950 usec
DE 6.00 usec
TE 300.2 K
CNS12 145.0000000
CNS11 1.0000000
D1 2.00000000 sec
d20 0.00689655 sec
DELTA 0.00001311 sec
TDO 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6233329 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127728 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40





Current Data Parameters
NAME AW581_W_Alpha
EXPNO 42
PROCNO 1
F2 - Acquisition Parameters
Date_ 20060403
Time_ 15.10
INSTRUM avance400
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 448
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 2896.3
DW 20.850 usec
DE 6.00 usec
TE 300.2 K
D1 2.0000000 sec
d11 0.0300000 sec
DELTA 1.8999998 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
PL1 -1.00 dB
SFO1 100.6228298 MHz
==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 20.00 dB
SFO2 400.1316005 MHz
F2 - Processing parameters
SI 32768
SF 100.6127734 MHz
WDW no
SSB 0
GB 0 Hz
PC 0

20.33
19.77

62.04

71.19
70.98
77.00

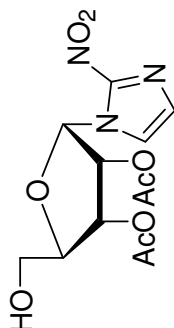
85.22
87.62

122.54

127.58

144.64

168.47
169.61



170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 ppm



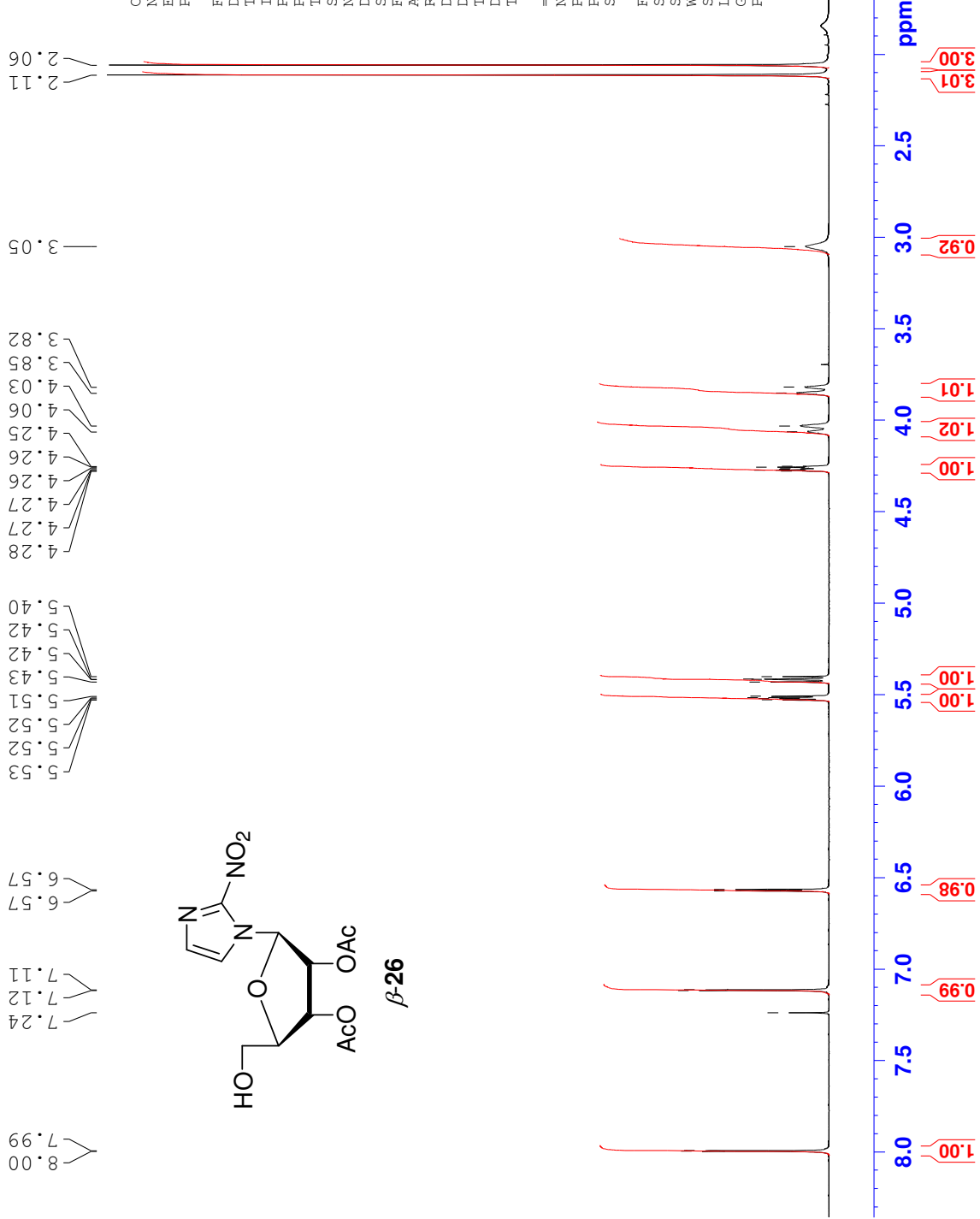
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Current Data Parameters
NAME      AW602_W1
EXPNO     100
PROCNO    1

F2 - Acquisition Parameters
Date_     20050719
Time      11.42
INSTRUM   avance400
PROBHD    5 mm BBO BB-1H
PULPROG   zg30
TD         65536
SOLVENT   CDCl3
NS         16
DS         2
SWH        8278.146 Hz
FIDRES     0.126314 Hz
AQ         3.9584243 sec
RG         181
DW         60.400 usec
DE         6.00 usec
TE         300.2 K
D1         1.00000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1       1H
P1         8.75 usec
PL1        -3.00 dB
SFO1       400.1324710 MHz

F2 - Processing parameters
SI         32768
SF         400.1300174 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00
    
```





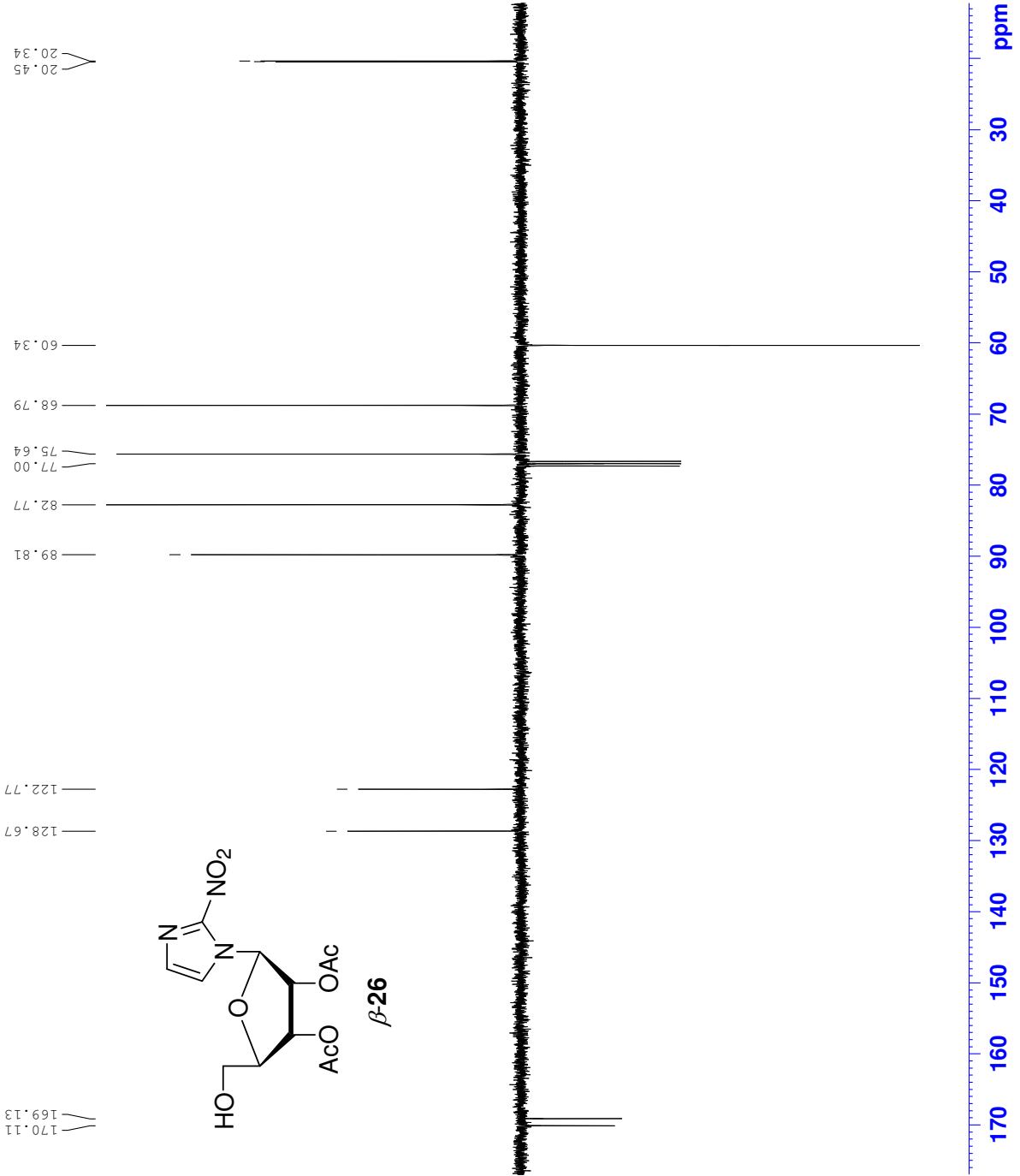
Current Data Parameters
NAME AW602_W1
EXNO 101
PROCNO 1

F2 - Acquisition Parameters
Date_ 20050719
Time_ 11.49
INSTRUM avance400
PROBHD 5 mm BBO BB-IH
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 204
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 5160.6
DW 19.950 usec
DE 6.00 usec
TE 300.2 K
CNST2 145.0000000
CNST11 1.0000000
D1 2.00000000 sec
d20 0.00689655 sec
DELTA 0.00001311 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6233329 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PLI2 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127733 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
FC 1.40





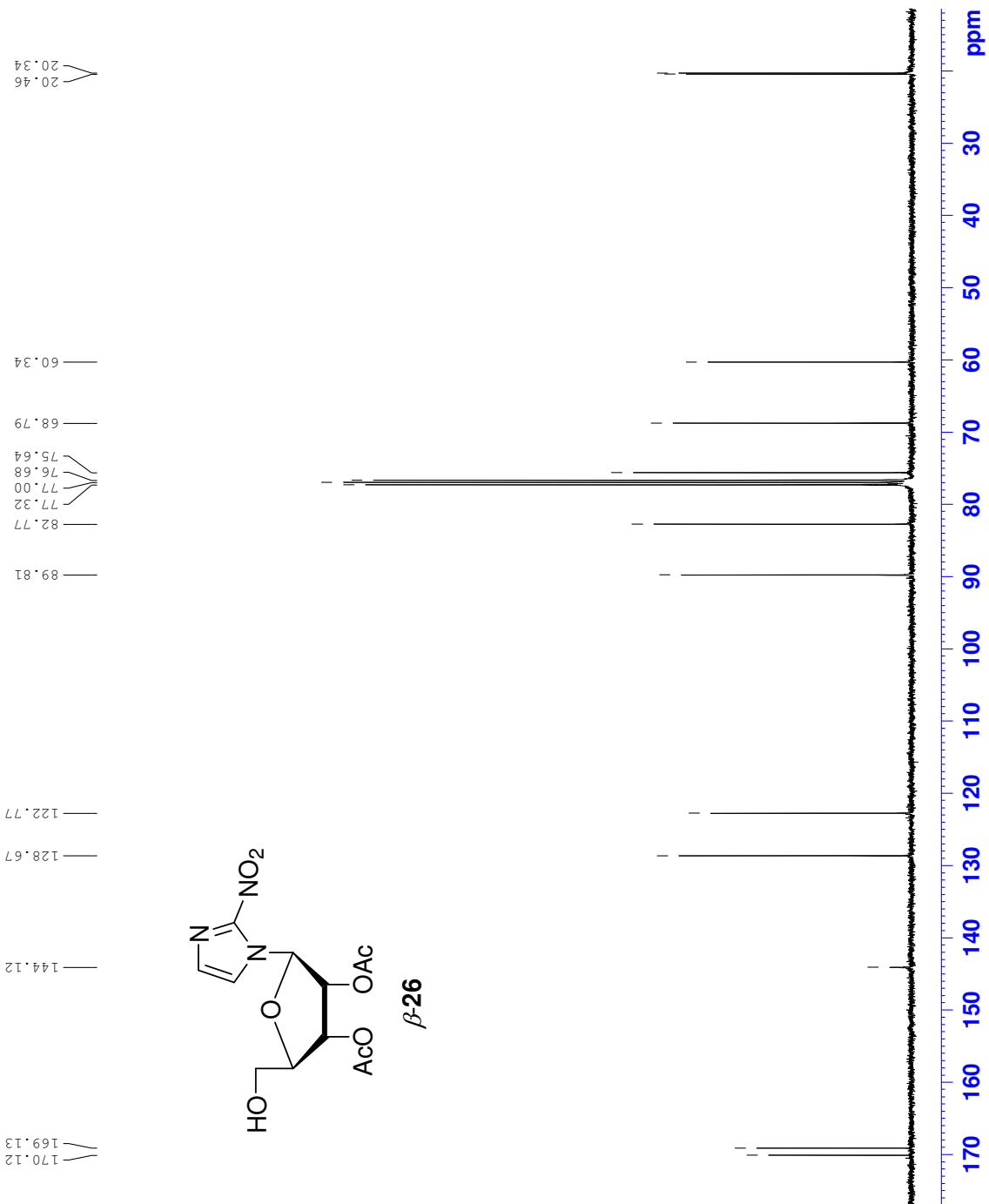
Current Data Parameters
NAME AW602_W1
EXPNO 102
PROCNO 1

F2 - Acquisition Parameters
Date_ 20050719
Time 12.30
INSTRUM avance400
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 800
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 2580.3
DW 20.850 usec
DE 6.00 usec
TE 300.2 K
D1 2.00000000 sec
d11 0.03000000 sec
DELTA 1.89999998 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
PL1 -1.00 dB
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 20.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127734 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



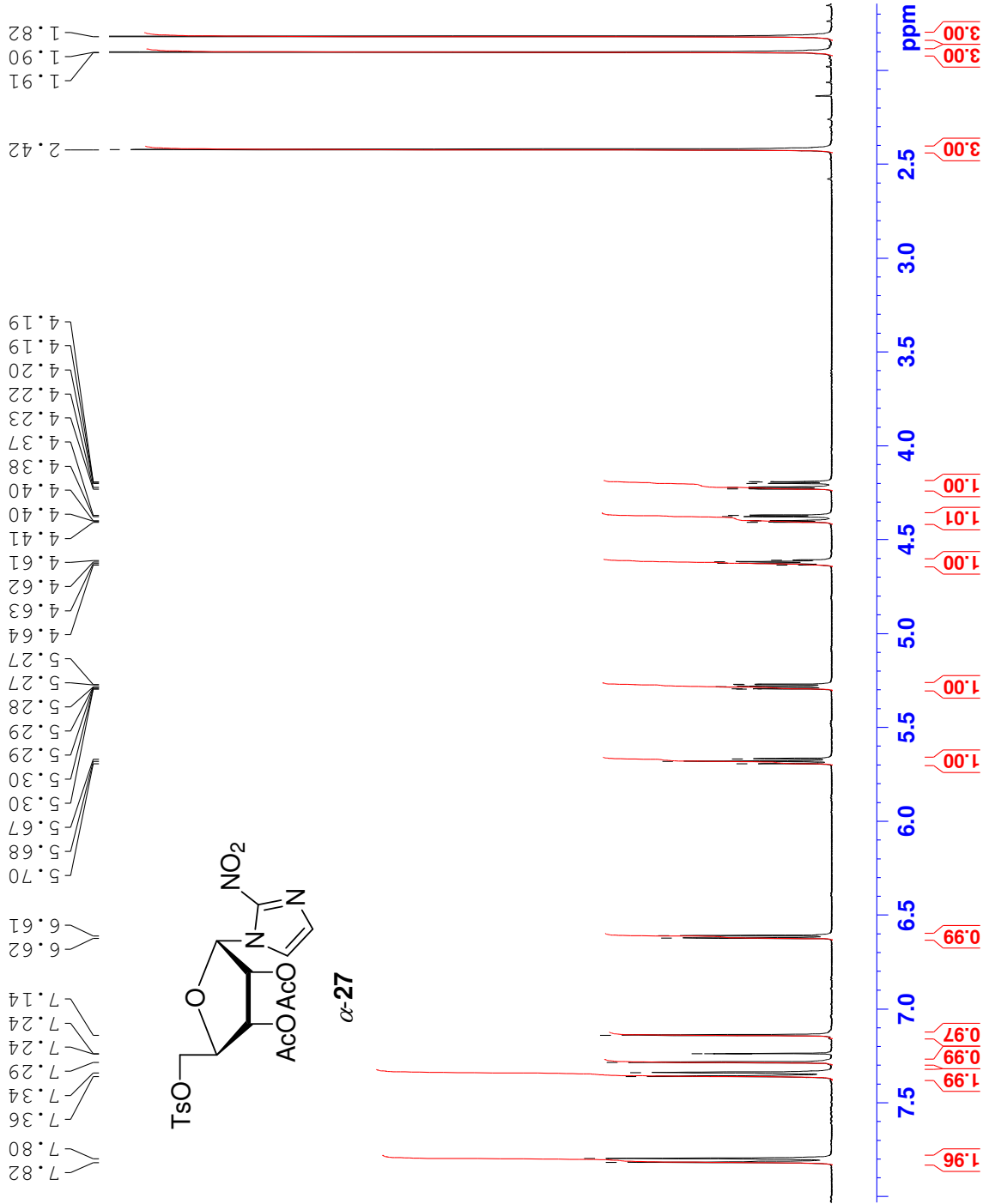


Current Data Parameters
 NAME AW582_W1
 EXPNO 130
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041109
 Time 20.31
 INSTRUM avance400
 PROBHD 5 mm Multinucl
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 143.7
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.0000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 9.80 usec
 PL1 3.00 dB
 SF01 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300174 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





Current Data Parameters
 NAME AW582_W1
 EXPNO 131
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041109
 Time 21.56
 INSTRUM advance400
 PROBDH 5 mm Multinucl
 PULPROG jmod
 TD 65536
 SOLVENT CDCl3
 NS 1500
 DS 2
 SWH 25062.656 Hz
 FIDRES 0.382426 Hz
 AQ 1.3074932 sec
 RG 4096
 DW 19.950 usec
 DE 6.00 usec
 TE 300.0 K
 CNST2 145.0000000
 CNST11 1.0000000
 d1 2.0000000 sec
 d13 0.00000300 sec
 d20 0.00689655 sec
 DELTA 0.00001401 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 11.00 usec
 P2 22.00 usec
 PL1 -6.00 dB
 SFO1 100.6232933 MHz

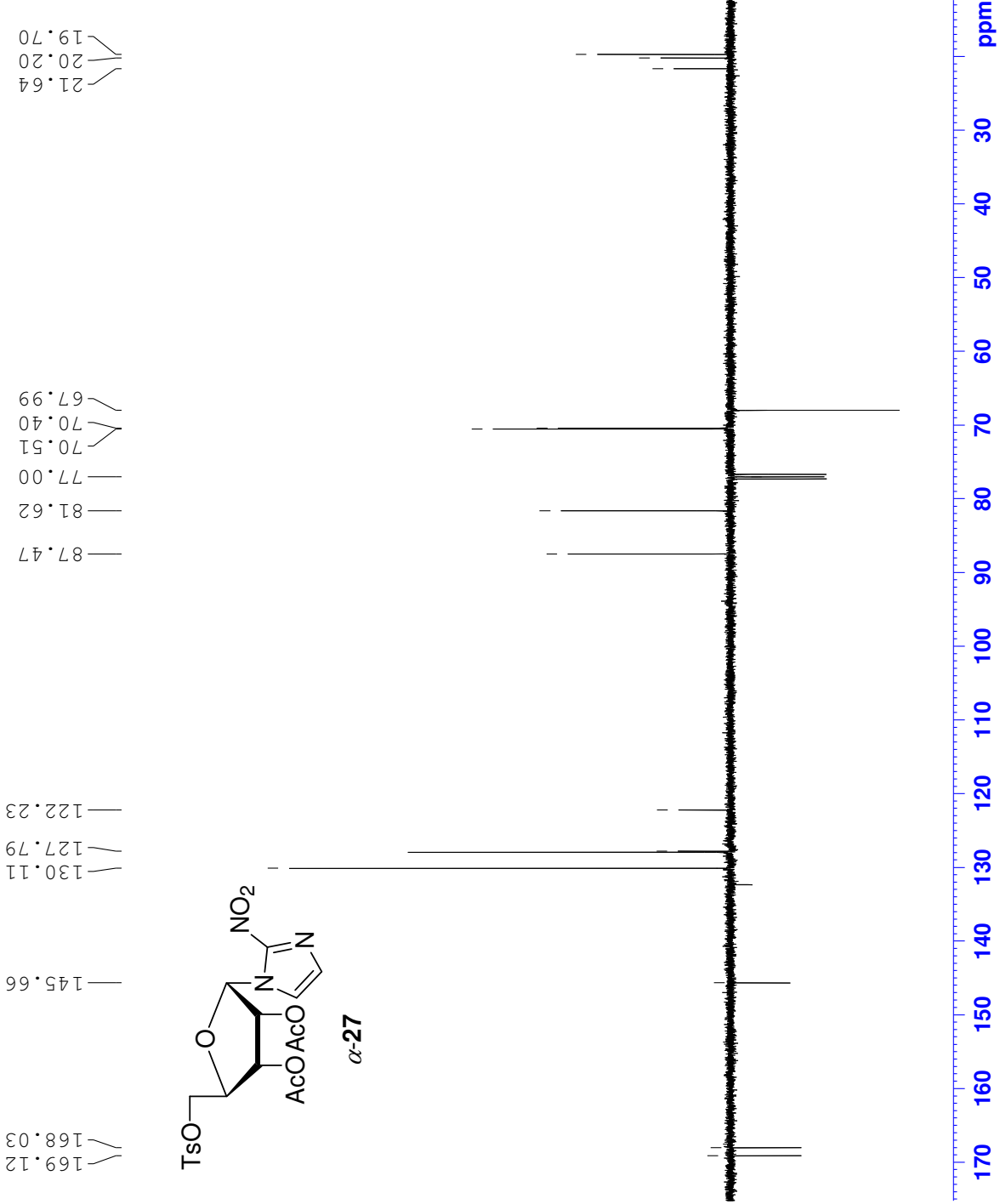
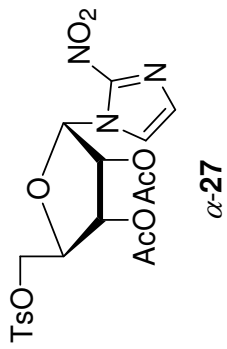
==== CHANNEL f2 =====
 CPDPRG2 wa1tz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 3.00 dB
 PL12 22.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127718 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40

21.64
20.20
19.70

87.47
81.62
77.00
70.51
70.40
67.99

169.12
168.03
145.66
130.11
127.79
122.23





Current Data Parameters
 NAME AW582_W1
 EXPNO 50
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20041111
 Time_ 12.49
 INSTRUM advance400
 PROBHD 5 mm Dual 13C/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 600
 DS 4
 SMH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 3649.1
 DW 20.850 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.00 usec
 PL1 0 dB
 SF01 100.6228298 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -4.00 dB
 PL12 14.00 dB
 PL13 16.00 dB
 SF02 400.1316005 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6127731 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40

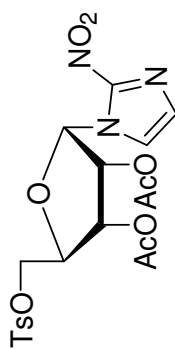
21.63
 20.19
 19.70

70.50
 70.38
 67.99

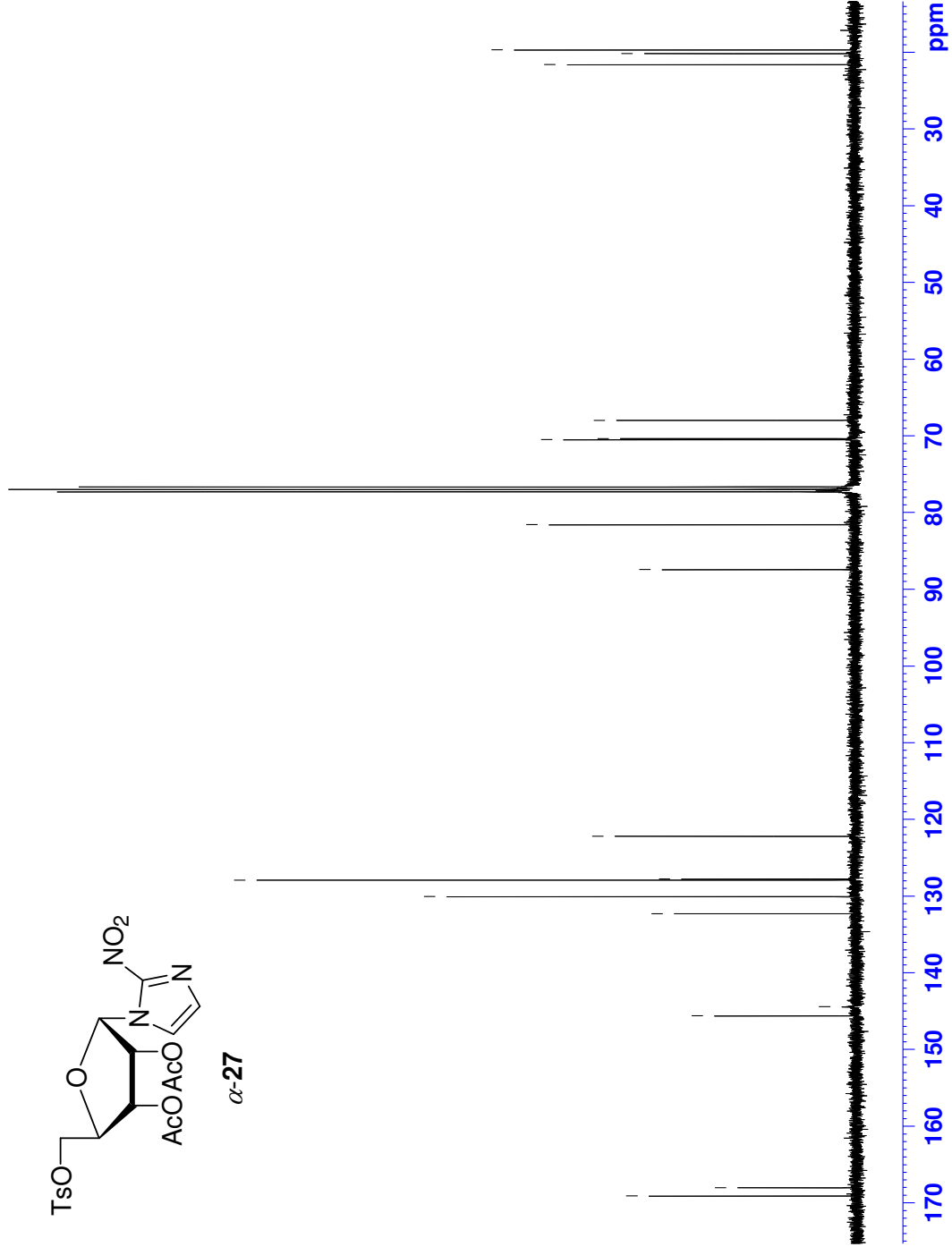
132.32
 130.10
 127.93
 127.78
 122.23

145.65
 144.46

169.12
 168.03



α -27



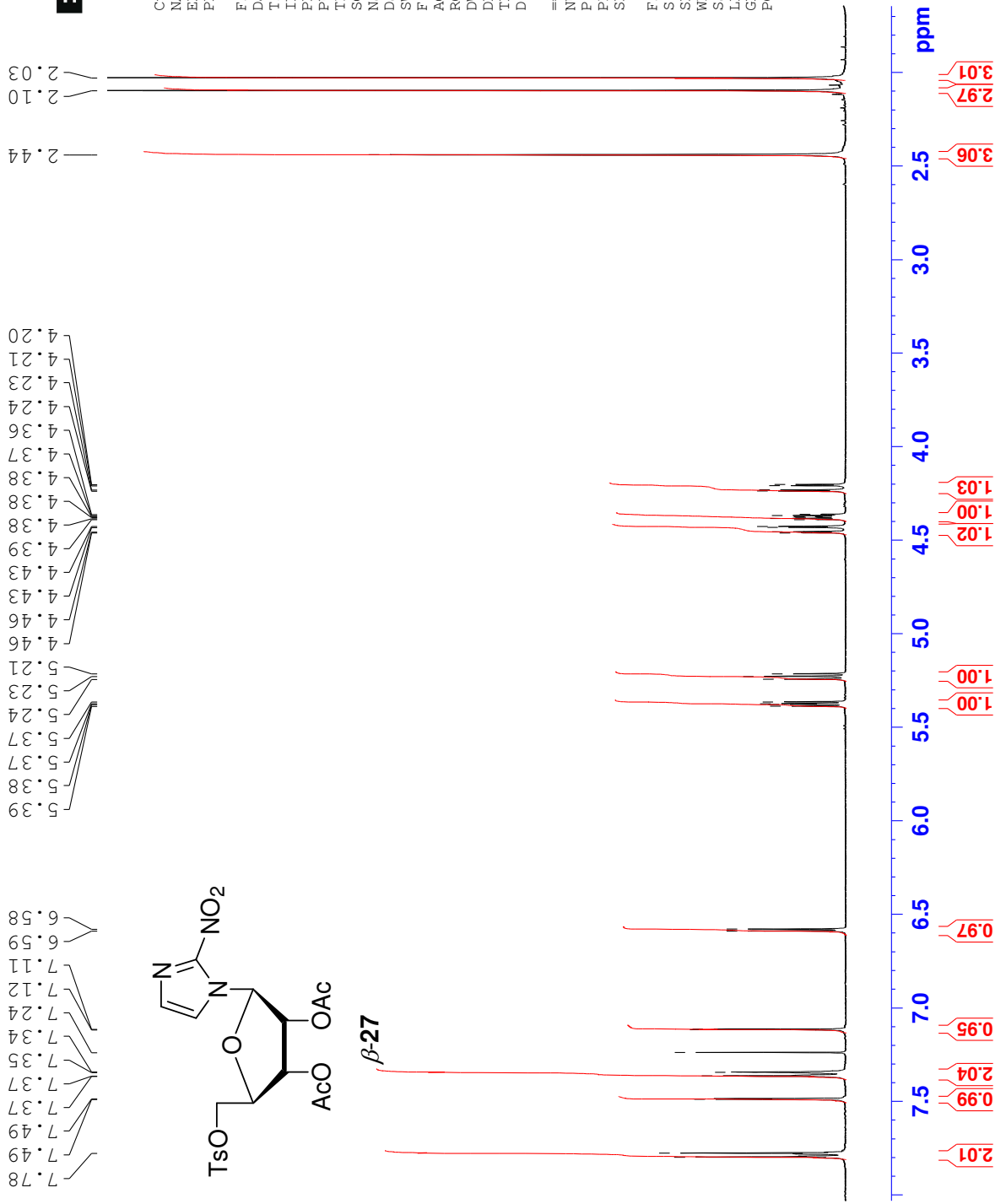


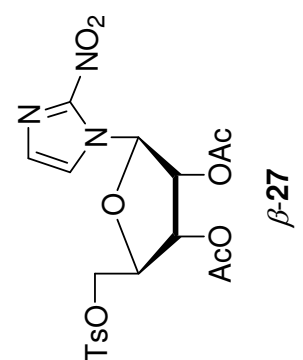
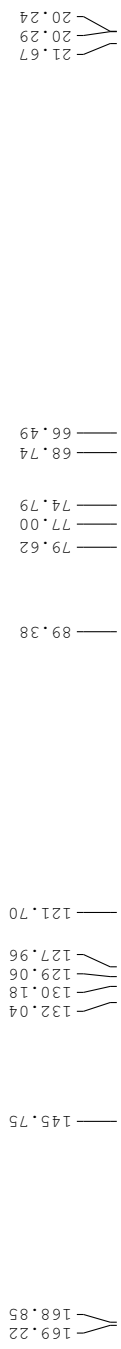
Current Data Parameters
 NAME AW604_W
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20050118
 Time_ 10.43
 INSTRUM advance400
 PROBHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 256
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.0000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300173 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





Current Data Parameters
NAME AW604_W
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20050118
Time 10.50
INSTRUM avance400
PROBHD 5 mm BBO BB-IH
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 449
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 2580.3
DW 19.950 usec
DE 6.00 usec
TE 300.0 K
CNST2 145.000000
CNST11 1.000000
D1 2.00000000 sec
d13 0.0000300 sec
d20 0.00689655 sec
DELTA 0.00001311 sec

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6232933 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127713 MHz
WDW EM
SSB 0
LB 0
GB 0
PC 1.40



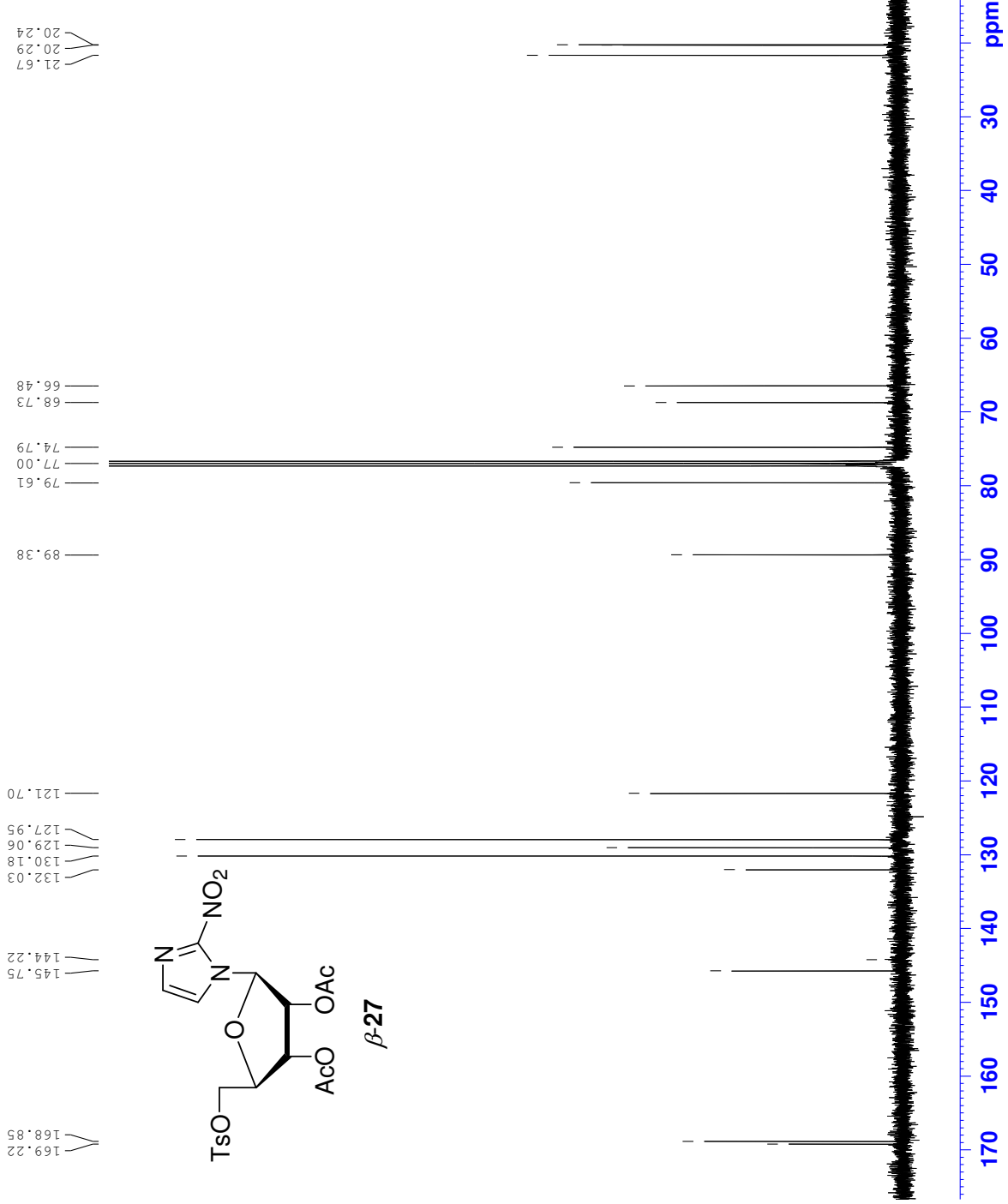
Current Data Parameters
 NAME AW604_W
 EXPNO 50
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20050119
 Time 14.00
 INSTRUM avance400
 PROBHD 5 mm BBO BB-IH
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 600
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 4096
 DW 20.850 usec
 DE 6.00 usec
 TE 300.0 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 d12 0.00002000 sec

==== CHANNEL f1 =====
 NUC1 13C
 P1 10.30 usec
 PL1 -1.00 dB
 SFO1 100.6228298 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 20.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6127717 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.40



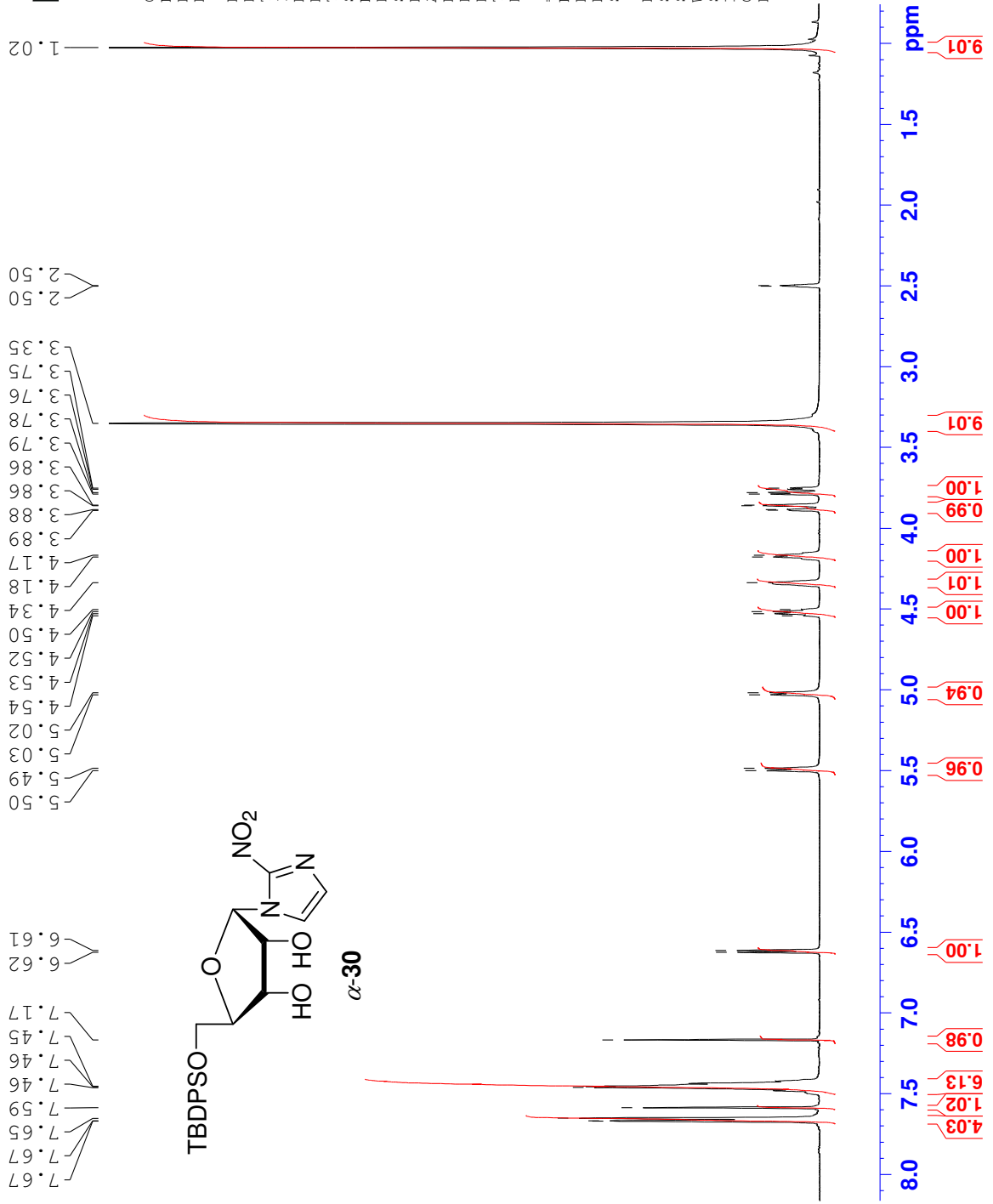


Current Data Parameters
 NAME AW579_W_Alpha
 EXPNO 191
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20040908
 Time 16.20
 INSTRUM avance400
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 ID 65536
 SOLVENT DMSO
 NS 16
 DS 2
 SWH 8278.146 Hz
 FIDRES 0.126314 Hz
 AQ 3.9584243 sec
 RG 90.5
 DW 60.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.0000000 sec

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.75 usec
 PL1 -3.00 dB
 SF01 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300029 MHz
 WDW no
 SSB 0
 LB 0 Hz
 GB 0
 PC 1.00





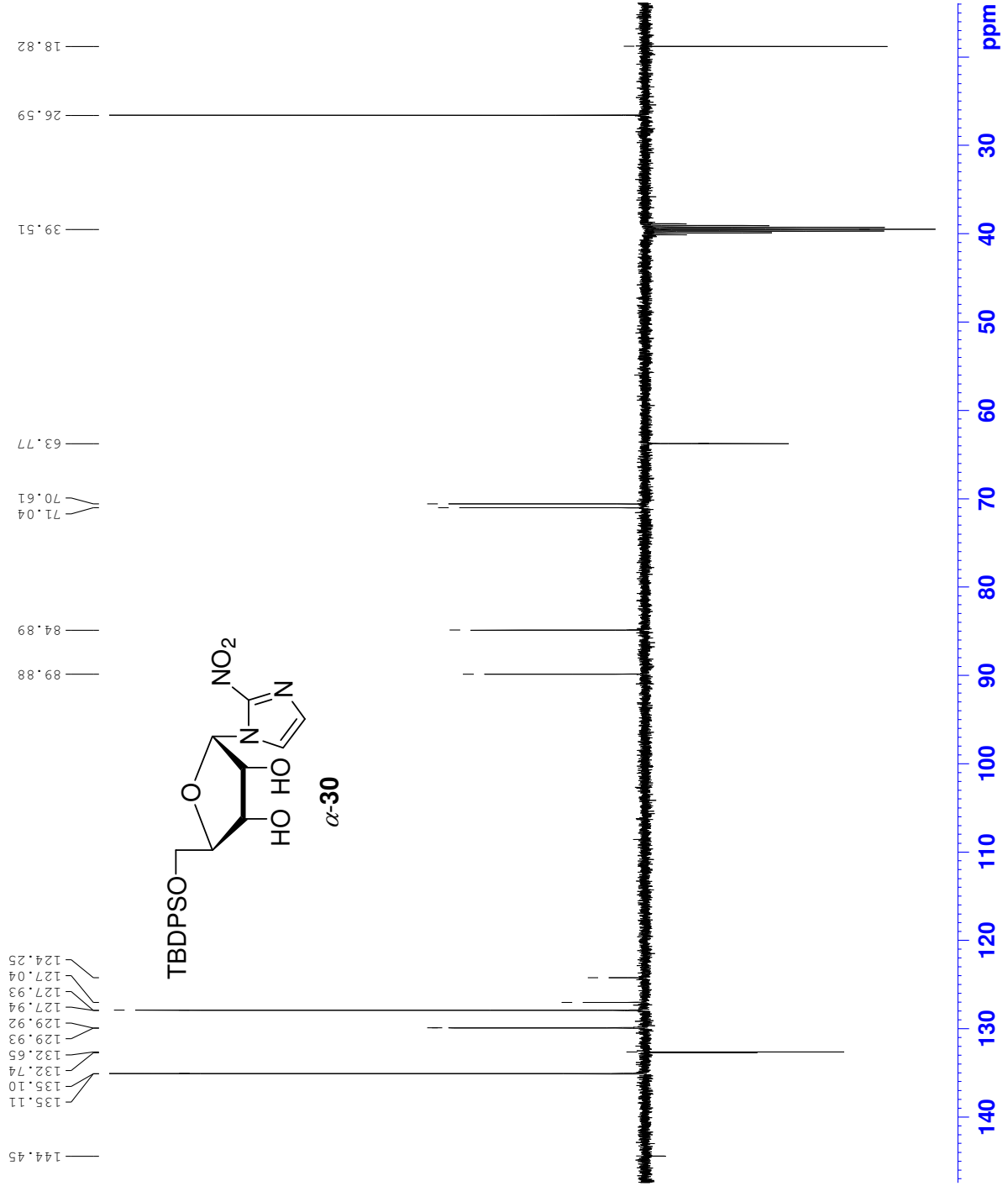
Current Data Parameters
NAME AWS79_W_Alpha
EXPNO 190
PROCNO 1

F2 - Acquisition Parameters
Date_ 20040908
Time 16.17
INSTRUM avance400
PROBHD 5 mm PABBO BB-
PULPROG jmod
TD 65536
SOLVENT DMSO
NS 800
DS 2
SWH 25062.656 Hz
FIDRES 0.382426 Hz
AQ 1.3074932 sec
RG 13004
DW 19.950 usec
DE 6.00 usec
TE 300.0 K
CNST2 145.000000
CNST11 1.000000
D1 2.0000000 sec
d13 0.00000300 sec
d20 0.00689655 sec
DELTA 0.00001311 sec

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
P2 20.60 usec
PL1 -1.00 dB
SFO1 100.6232933 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128167 MHz
WDW no
SSB 0 Hz
LB 0
GB 0
PC 1.40





Current Data Parameters
NAME AW579_W_Alpha
EXPNO 192
PROCNO 1

F2 - Acquisition Parameters
Date_ 20040908
Time_ 17.06
INSTRUM avance400
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 800
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 2048
DE 20.850 usec
TE 300.0 K
D1 2.0000000 sec
d11 0.0300000 sec
d12 0.0000200 sec

==== CHANNEL f1 =====
NUC1 13C
P1 10.30 usec
PL1 -1.00 dB
SFO1 100.628298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 20.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6128168 MHz
WDW no
SSB 0
LB 0 Hz
GB 0
PC 1.40

