

Supporting Information
for

Amine-linked diglycosides: Synthesis facilitated by the enhanced reactivity of allylic electrophiles, and glycosidase inhibition assays

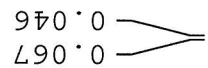
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Inmaculada Robina³, Dominic S. Alonzi⁴ and Terry D. Butters⁴

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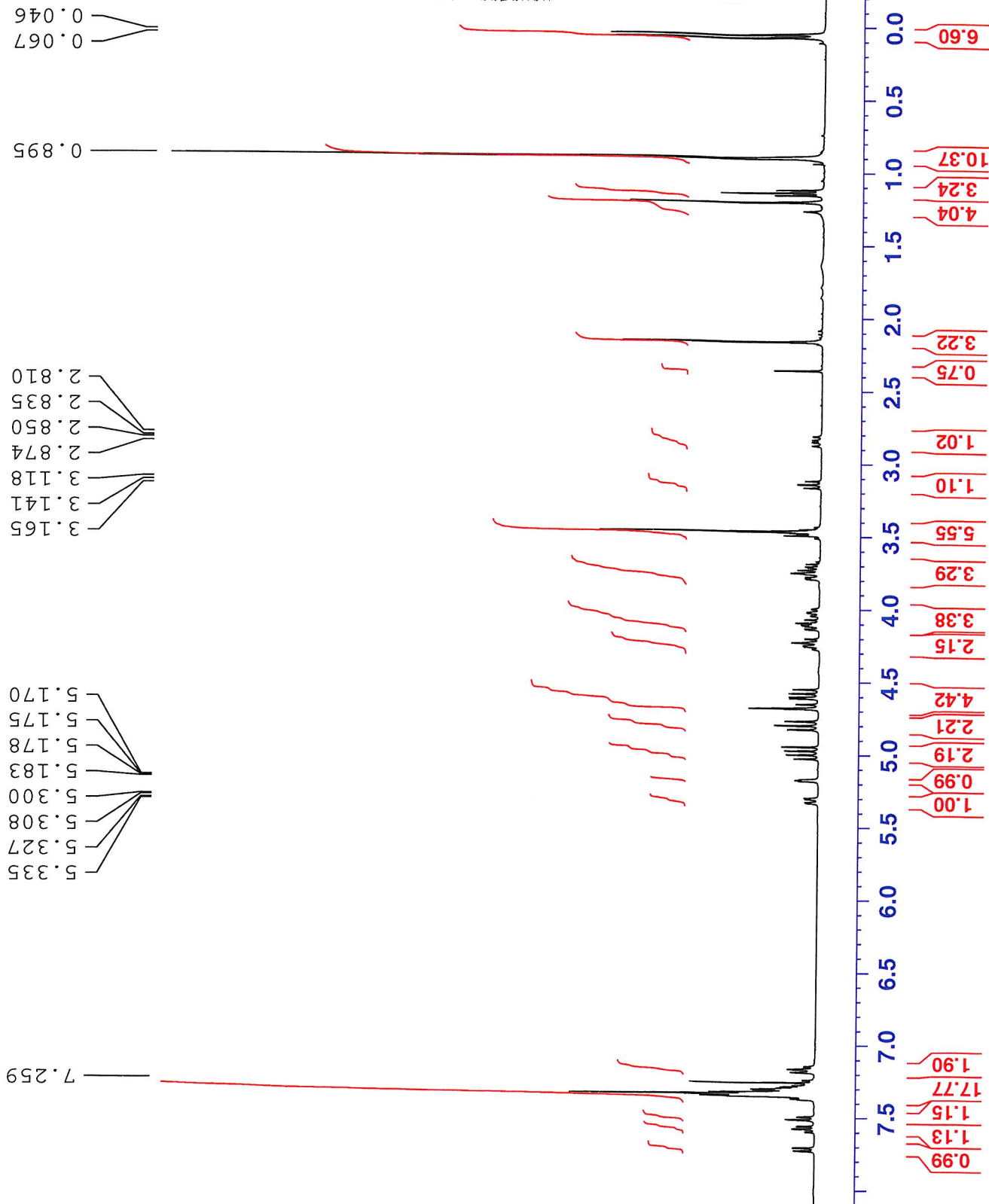
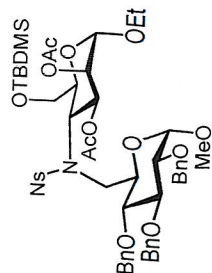
¹H and ¹³C NMR spectra of compounds 18–27



P22 - Acquisition Parameters	
Date_	20090930
Time	5.43
INSTRUM	Spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	2
SWH	8223.685 Hz
FIDRES	0.125403 Hz
AQ	3.3646387 sec
RG	60.800 usec
DE	6.50 usec
TE	297.3 K
D1	1.00000000 sec
DELTA	1

```
===== CHANNEL f1 =====
UCL1      1H
p1         8.90 usec
pL1        -4.00 dB
pL1W       24.73352814 W
FO1        400.1324710 MHz
```

2 - Processing parameters	
FI	32768
FF	400.130097 MHz
FW	EM
SB	0
BB	0.30 Hz
BB	0
CC	1.00





Current Data Parameters
NAME JP-32-20-fr-5-10-diac
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters

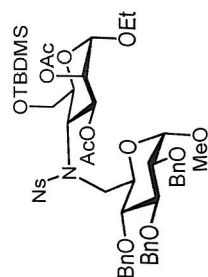
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INSTRUM spect
PROBHD 5 mm PABBO BB
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 3072
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DM 2050 usec
DE 51.93 usec
TE 298.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 6.40 usec
PL1 -2.00 dB
PL1W 69.66502380 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 16.00 dB
PL2W 15.00 dB
PL2W 0.24733528 W
PL2W 0.31137666 W
PL2W 0.31137666 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127580 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

170.53
169.33
148.22
138.82
138.46
138.17
133.40
132.36
131.86
131.00
129.16
128.60
128.54
128.51
128.35
128.17
128.05
127.95
127.92
127.77
127.69
125.42
123.85
98.29
96.41
81.28
81.15
80.07
77.36
75.58
74.73
73.40
71.71
70.10
69.93
66.28
63.91
62.88
56.06
47.13
26.03
21.58
21.05
20.05
18.32
15.05
-4.85
-5.02





1.147
1.129
1.111

5.033
5.015
5.004
4.988
4.842
4.814
4.787
4.782
4.676
4.646
4.581
4.552
4.511
4.503
4.294
4.271
4.247
4.119
4.095
4.072
3.405

7.823
7.804
7.571
7.553
7.503
7.500
7.483
7.480
7.258

Current Data Parameters
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EXPNO 10
PROCNO 1

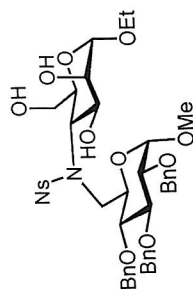
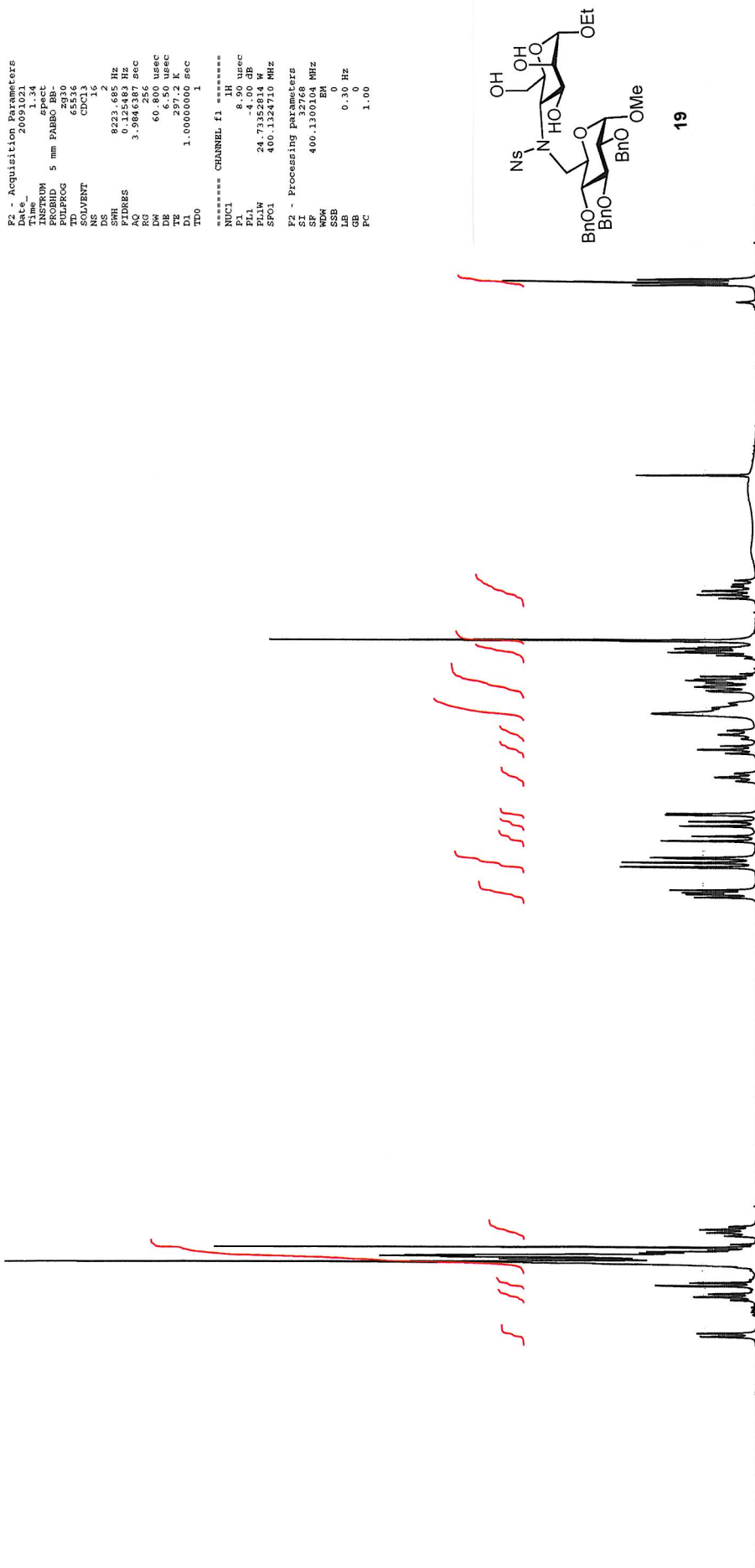
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Time 1.34
INSTRUM spect

PROBHD 5 mm EBBQ BB-
PULPROG zgpg30
TD 65536
FIDRES 0.16
SOLVENT DMSO-d6
NS 2
DS 2

SWH 8223.685 Hz
FIDRES 0.16448 Hz
AQ 3.5004587 sec
RG 256
DW 60.800 usec
DE 6.50 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 8.50 usec
PL1 -4.00 dB
PL1W 24.73325814 W
SFO1 400.132410 MHz

F2 - Processing parameters
SI 32768
SF 400.1300104 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



19

ppm

3.00

2.17

3.08

2.19

3.28

4.09

1.08

1.08

1.01

1.04

1.06

1.12

3.13

2.04

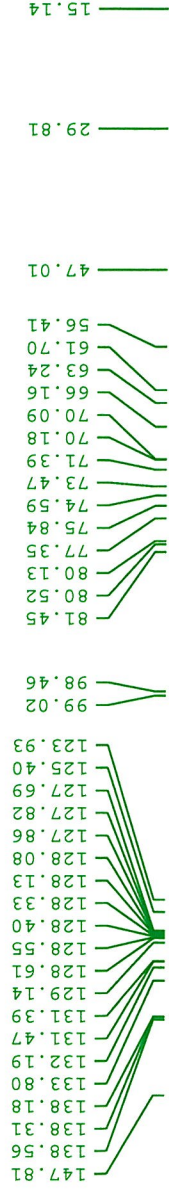
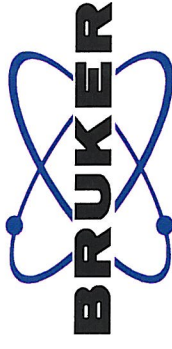
1.56

16.92

1.23

1.16

1.00



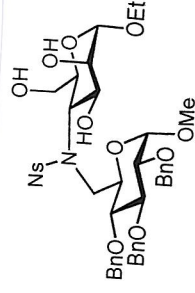
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NAME JF-38-30-fr-7-30-desilylation
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20101006
Time 14:22
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
ZGPG30 1
SOLVENT CDCl3
NS 3072
DS 4
SWH 24038.46 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
GB 25.80 usec
DB 15.00 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 13C
PL1 6.00 usec
PL1 3.00 dB
PL1W 69.66502380 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 15.00 dB
PL2 15.00 dB
PL2 15.00 dB
PL2W 0.2473528 W
PL2W 0.2473528 W
PL2W 0.2473528 W
PL2W 0.2473528 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127595 MHz
WDW EM
SSB 0
GB 1.00 Hz
PC 1.40



19

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 ppm



Current Data Parameters
NAME JF-38-08-fr-8-20-desilylation
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

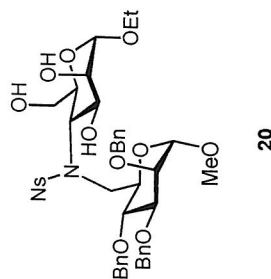
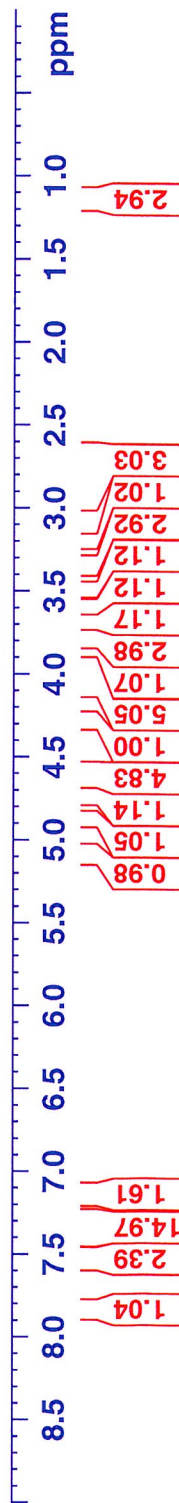
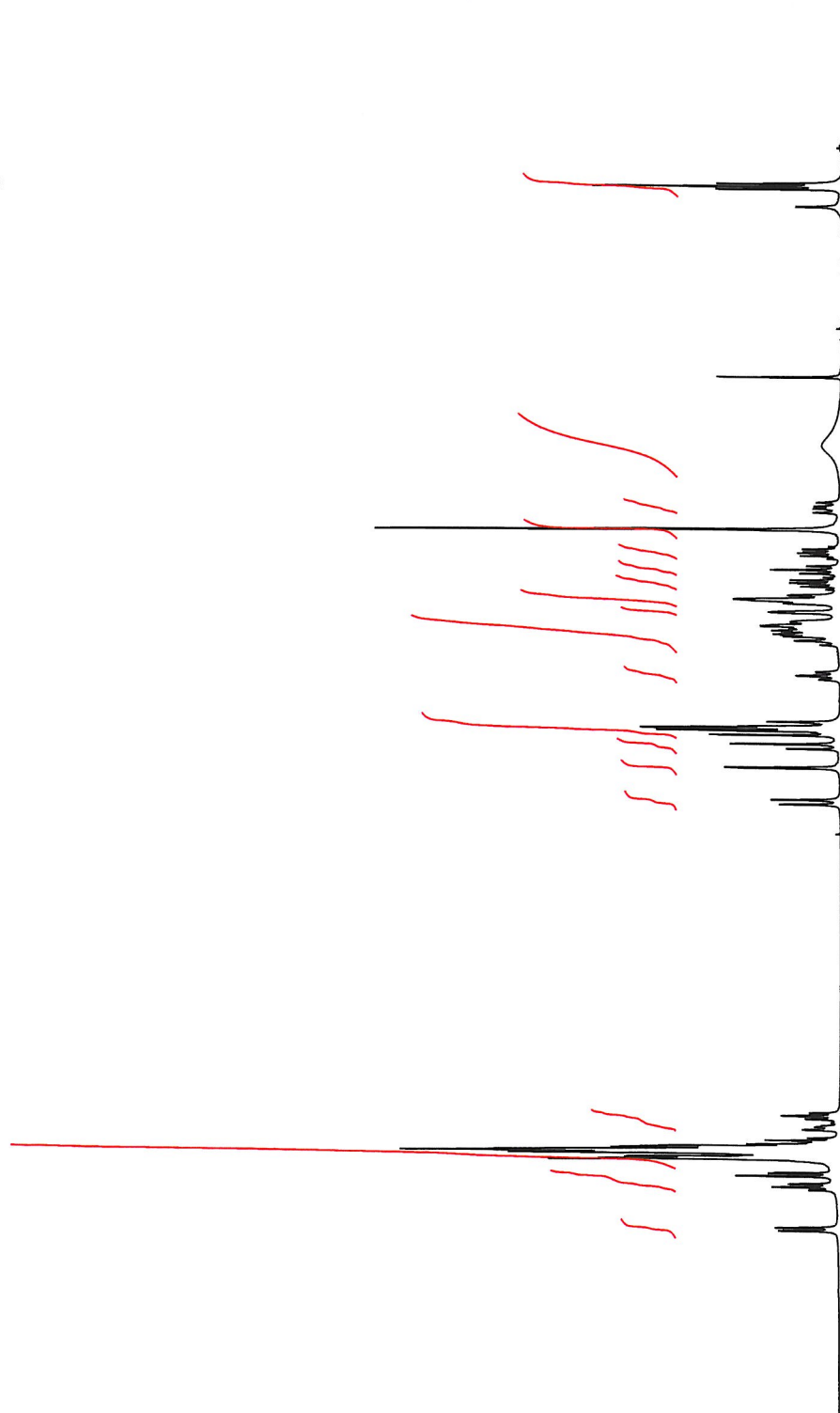
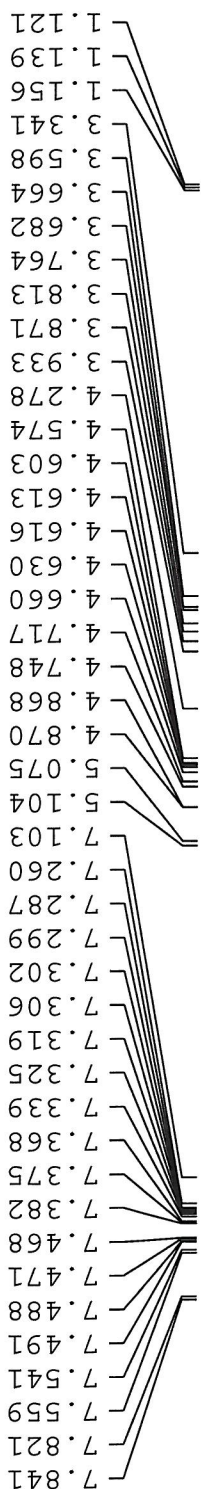
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Time 10.23
PULPROG zgpg30
PCPDPRD 5 mm PABBO BB
TD 65536
SOLVENT CDCl₃
NS 16
DS 2
SWH 8233.685 Hz
FIDRES 0.15549 Hz
AQ 3.9046387 sec
RG 161
DM 60.800 usec
DE 18.50 usec
TE 29.0 usec
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====

NUC1 1H
P1 8.90 usec
PL1 -4.00 dB
PR1 24.73350000 MHz
SFO1 400.1324710 MHz

F2 - Processing parameters

SI 32768
SF 400.1300000 MHz
WDW EM
SSB 0
GB 0
PC 1.00



20



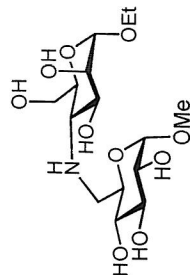
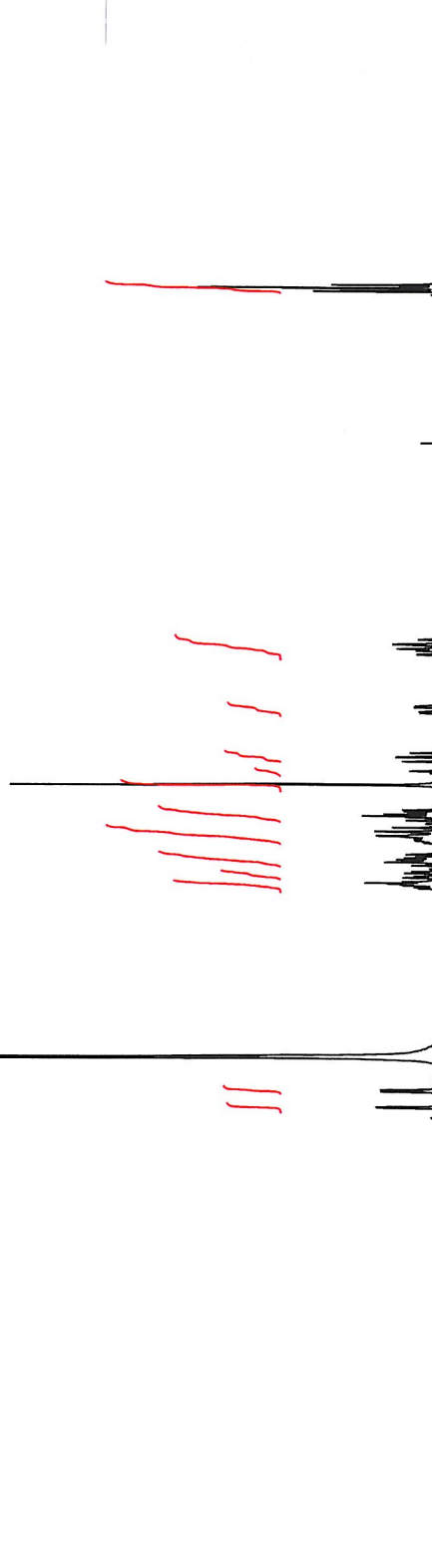
Current Data Parameters
NAME JF-32-44-FL2-fr-28-33
EXPNO 10
PROCNO 10

F2 - Acquisition Parameters
Date_ 20100906
Time 2.40
INSTRUM spect
PROBHD 5 mm PABBO-1H-1
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 16
DS 0
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 0.122266 sec
RG 327.680
DE 62.400 usec
TE 308.2 K
D1 2.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 11.80 usec
PL1 0.00 dB
PL1W 15.76948765 W
SFO1 500.1325007 MHz

F2 - Processing parameters
SI 32768
SF 500.1300065 MHz
WDW EM
SSB 0
LB -0.10 Hz
GB 0
PC 1.00

4.918
4.915
4.846
4.838
3.931
3.924
3.920
3.917
3.913
3.907
3.889
3.882
3.868
3.862
3.834
3.820
3.814
3.808
3.800
3.785
3.723
3.717
3.707
3.702
3.682
3.664
3.632
3.618
3.613
3.605
3.598
3.593
3.586
3.474
3.368
3.350
3.349
3.331
3.127
3.121
2.874
2.865
2.845
1.267
1.252
1.238



21

6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm



Current Data Parameters
NAME JF-32-41-FLZ-15-28-33
EXPNO 40
PROCNO 10

F2 - Acquisition Parameters
Date_ 20100906
Time 4.01
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 32768
SOLVENT D2O
NS 1536
DS 0
SWH 27573.529 Hz
FIDRES 0.841477 Hz
AQ 0.5942430 sec
RG 2050
RW 19.133 usec
DE 12.00 usec
TE 308.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 6

===== CHANNEL f1 =====
NUC1 13C
P1 7.50 usec
PL1 0.00 dB
RF1 83.8970017 MHz
SF01 125.7703648 MHz

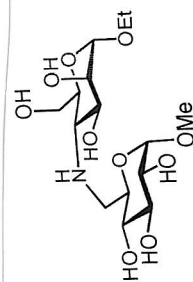
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 2.00 dB
PL12 18.62 dB
PL13 21.00 dB
PL14 15.7697775 MHz
PL15 0.34341794 W
PL16 0.19852860 W
PL17 500.1321306 MHz
SF02

F2 - Processing parameters
SI 32768
SF 125.7577839 MHz
WDW EM
SSB 0
AB 1.00 Hz
GB 0
PC 1.40

14.17

73.12
72.19
71.85
71.40
70.75
69.70
69.12
63.63
61.91
56.01
55.48
49.06

99.67
99.50



21

200 180 160 140 120 100 80 60 40 20 ppm

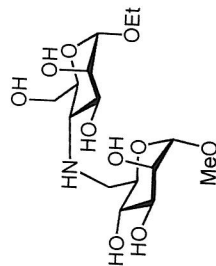
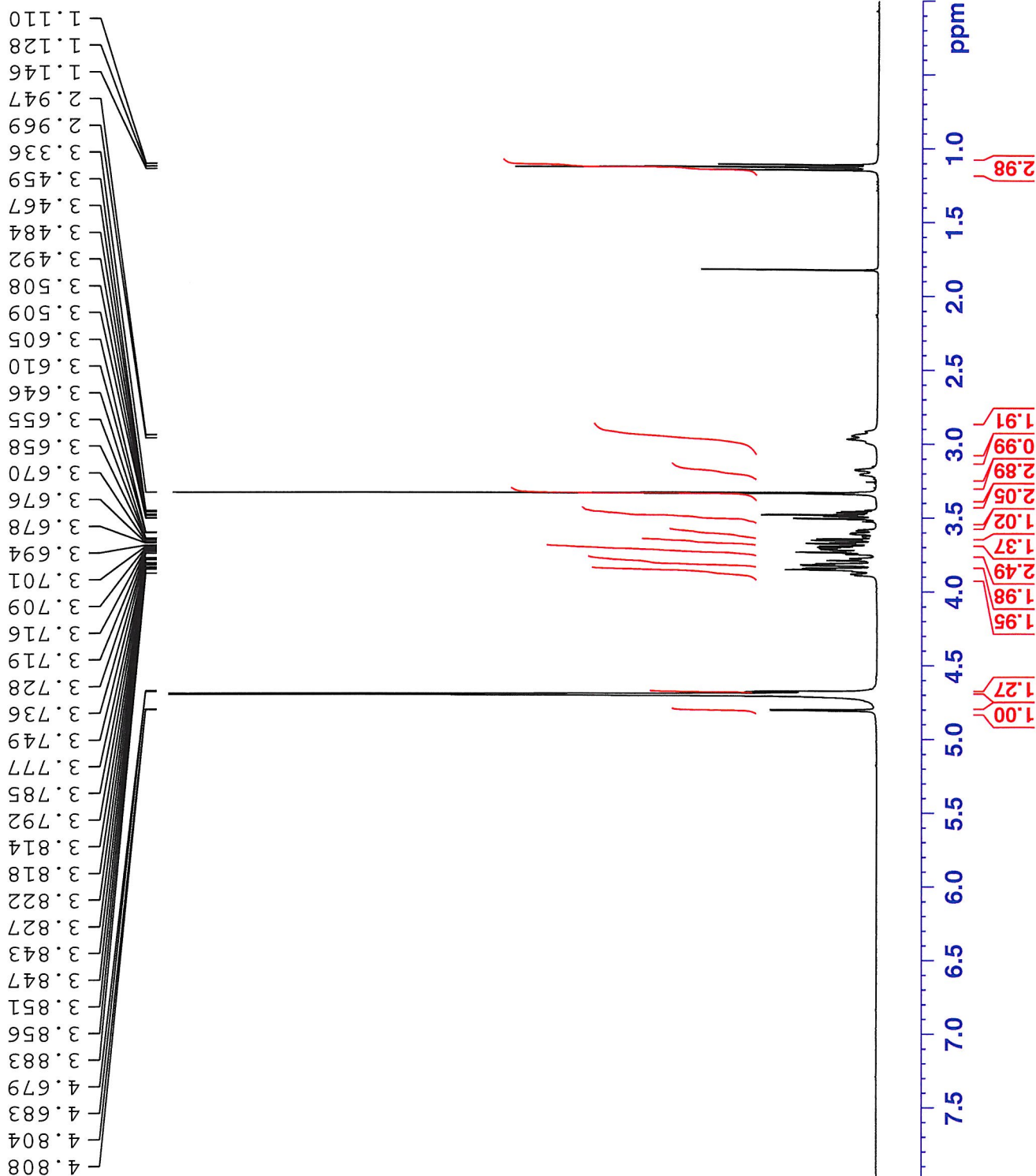


Current Data Parameters
NAME JF-38-18-FL3-fr-8-12
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100906
Time 13:48
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65788
SOLVENT D2O
NS 64
DS 0
SWH 8223.685 Hz
FIDRES 0.125003 Hz
AQ 3.9999604 sec
RG 327.874
DM 60.800 usec
DE 6.000 usec
TE 297.0 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 8.30 usec
PL1 -4.00 dB
PL1W 24.73352814 W
SF01 400.1320007 MHz

F2 - Processing parameters
SI 32768
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





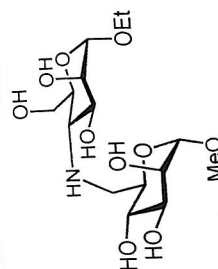
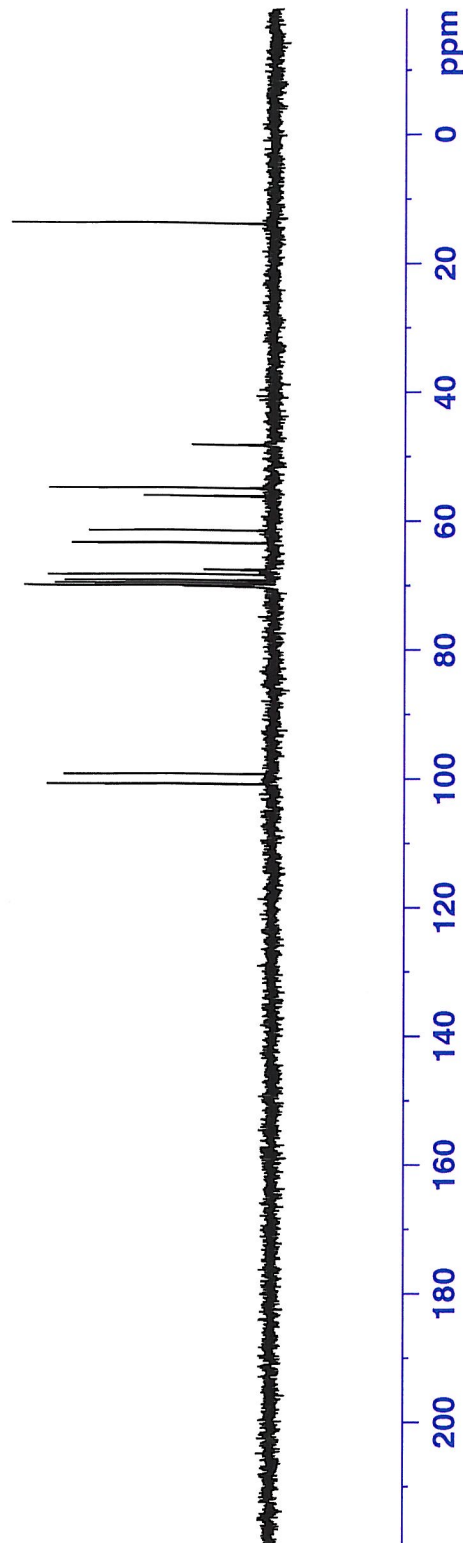
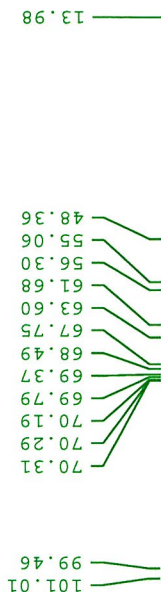
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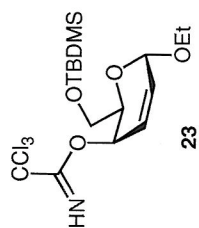
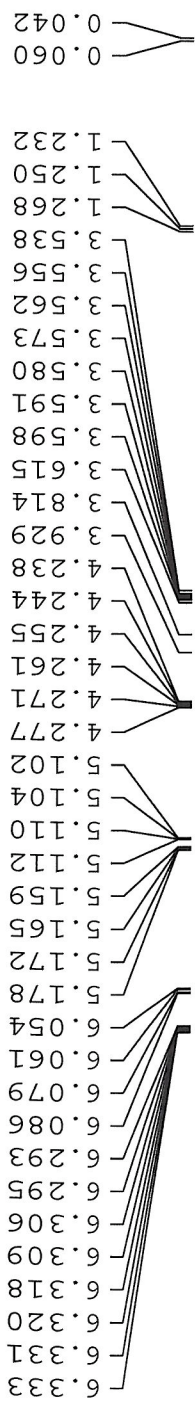
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Date_ 20100906
Time_ 18.47
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT D2O
NS 3072
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 51.93 usec
TE 297.7 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 6.43
PL1 -3.00 dB
PL1W 69.66502380 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 16.00 dB
PL2W 15.00 dB
PL3 15.00 dB
PL3W 0.24733528 W
PL4W 0.31137666 W
PL13W 0.31137666 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
GB 2.00 Hz
CB 0
PC 1.40



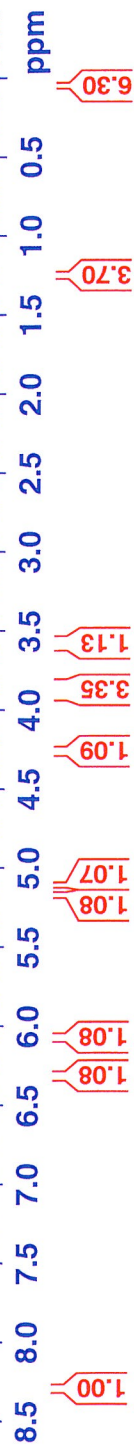


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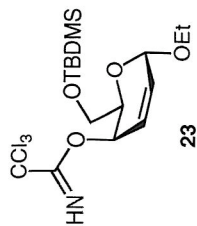
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 Date_ 20090525
 Time 8.58
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDC13
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 181
 DW 60.800 usec
 DE 6.50 usec
 TE 298.3 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 8.90 usec
 PL1 -4.00 dB
 PL1W 24.73352814 W
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300094 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



162.11 131.69 124.41 93.89 91.60 70.13 67.52 63.89 61.98 25.93 18.30 15.40 5.26 5.30



Current Data Parameters
NAME PEP-30-30
EXPNO 10
PROCNO 1

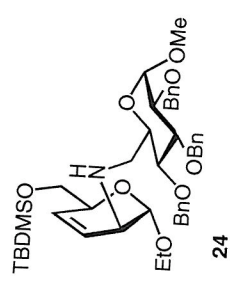
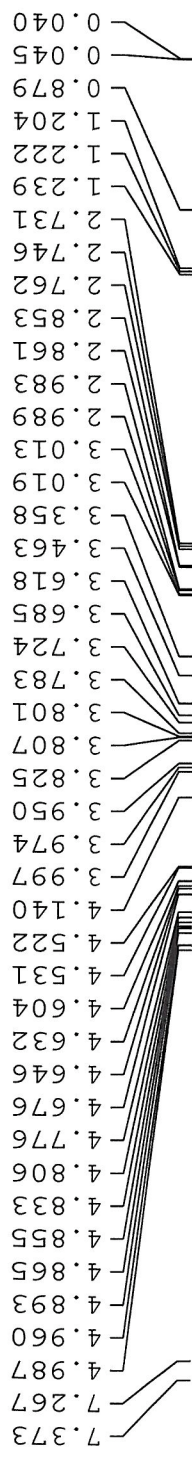
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Date_ 20090526
Time 20.06
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 51.93 usec
TE 299.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 6.43 usec
PL1 -3.00 dB
PL1W 69.66502380 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 16.00 dB
PL12 15.00 dB
PL13 15.00 dB
PL2W 0.24733528 W
PL12W 0.31137666 W
PL13W 0.31137666 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127534 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm

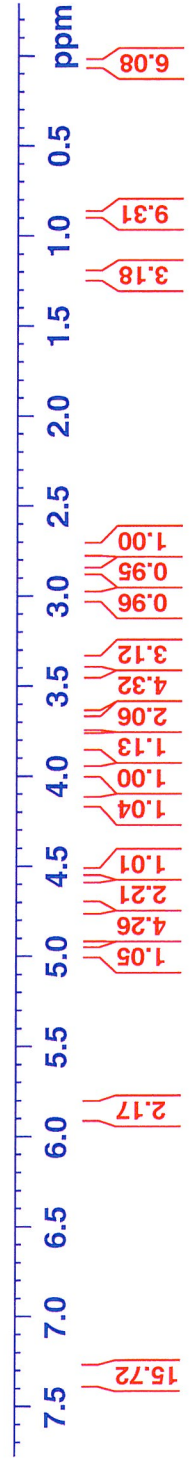


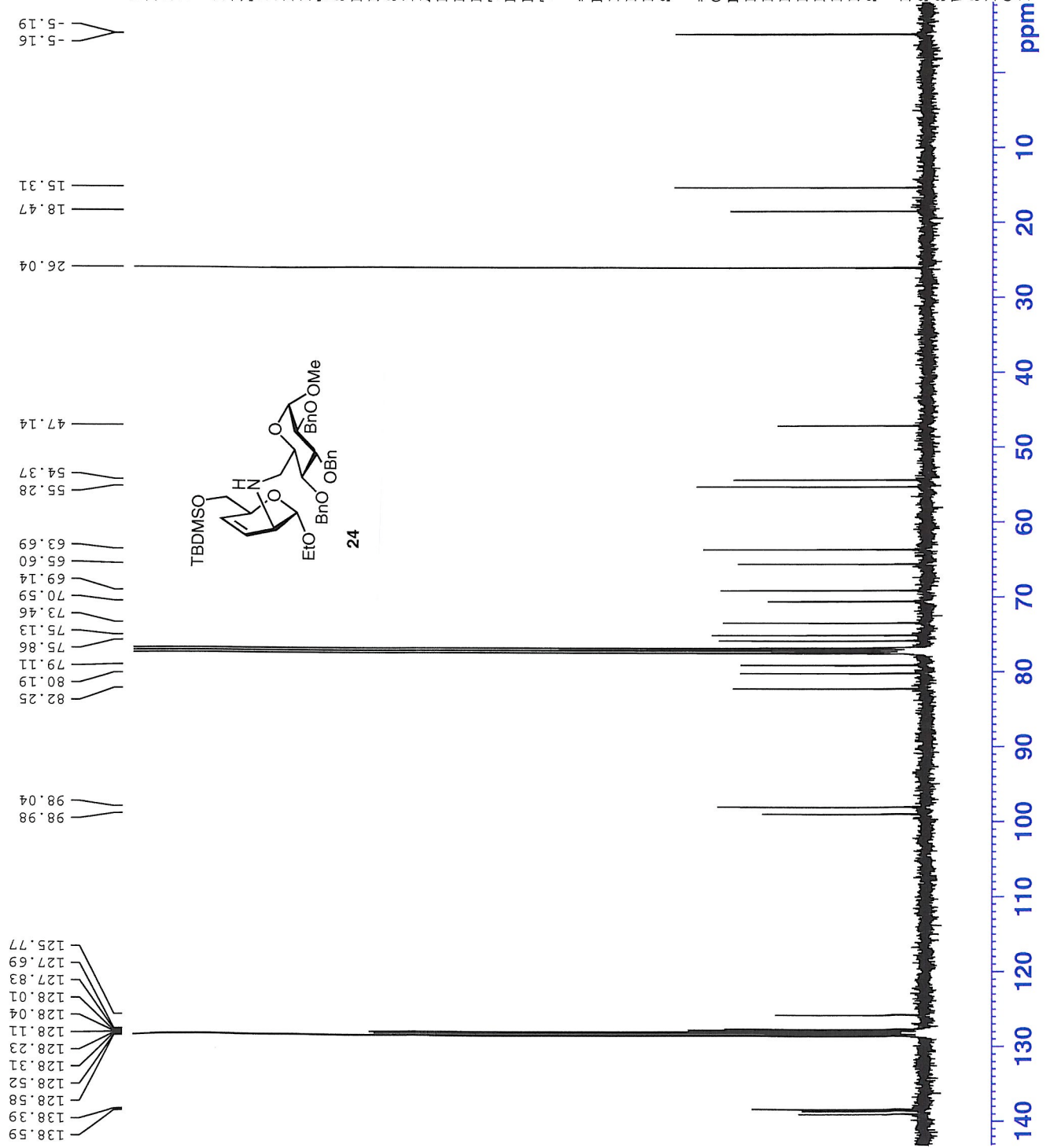
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NAME PEP-30-31-t-33-49
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090528
Time_ 20.01
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 114
DW 60.800 usec
DE 6.50 usec
TE 297.3 K
D1 1.0000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 8.90 usec
PL1 -4.00 dB
PL1W 24.73352814 W
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





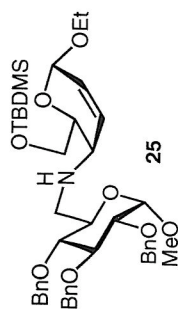
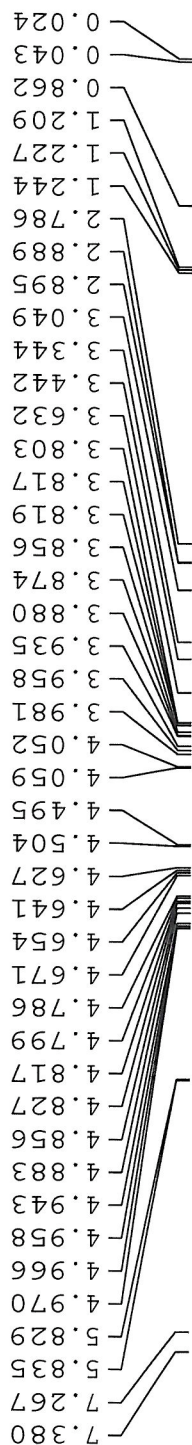
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EXPNO 11
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090528
Time 21.01
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 51.93 usec
TE 299.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 6.43 usec
PL1 -3.00 dB
PL1W 69.66502380 W
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 16.00 dB
PL12 15.00 dB
PL13 15.00 dB
PL2W 0.24733528 W
PL12W 0.31137666 W
PL13W 0.31137666 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127553 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

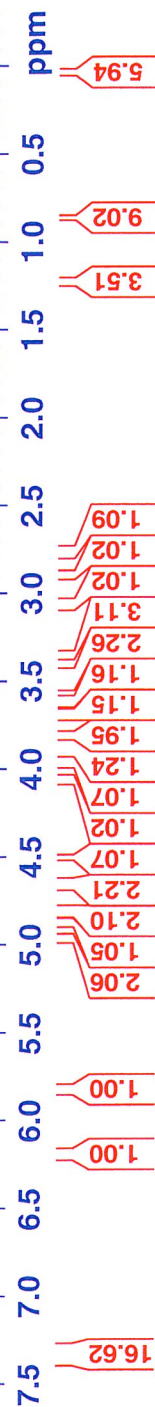


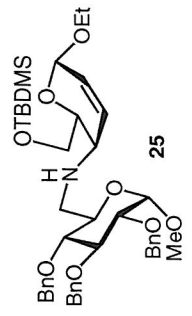
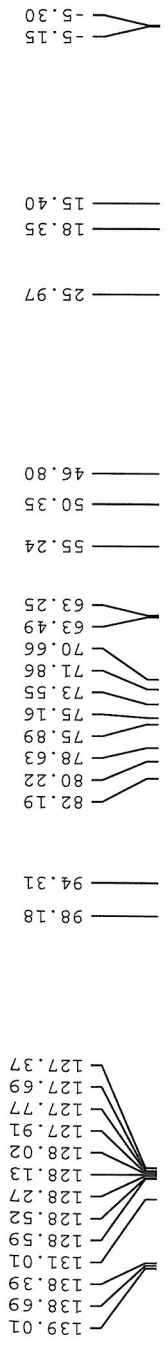
Current Data Parameters
 NAME PEP-30-33-k2-27-51
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20090605
 Time 8.57
 INSTRUM spect
 PROBD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 114
 DW 60.800 usec
 DE 6.50 usec
 TE 297.0 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 8.90 usec
 PL1 -4.00 dB
 PL1W 24.73352814 W
 SFO1 400.1324710 MHz

F2 - Processing parameters
 SI 32768
 SF 400.1300094 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





Current Data Parameters
NAME PEP-30-33-k2-27-51
EXPNO 12
PROCNO 1

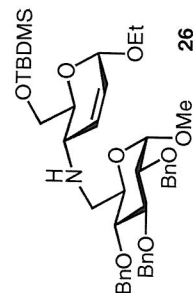
F2 - Acquisition Parameters
Date_ 20090605
Time 21.22
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 51.93 usec
TE 299.2 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 6.43 usec
PL1 -3.00 dB
PL1W 69.66502380 W
SFO1 100.6228298 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 16.00 dB
PL12 15.00 dB
PL13 15.00 dB
PL2W 0.24733528 W
PL12W 0.31137666 W
PL13W 0.31137666 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127559 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

7.371
7.259
5.972
5.947
5.734
5.708
4.989
4.962
4.891
4.863
4.827
4.799
4.766
4.676
4.645
4.597
4.570
4.508
4.500
3.997
3.974
3.951
3.784
3.769
3.741
3.539
3.498
3.486
3.477
3.462
3.453
3.377
3.353
3.339
3.330
3.047
3.044
3.023
3.020
1.241
1.223
1.205
0.880
0.051

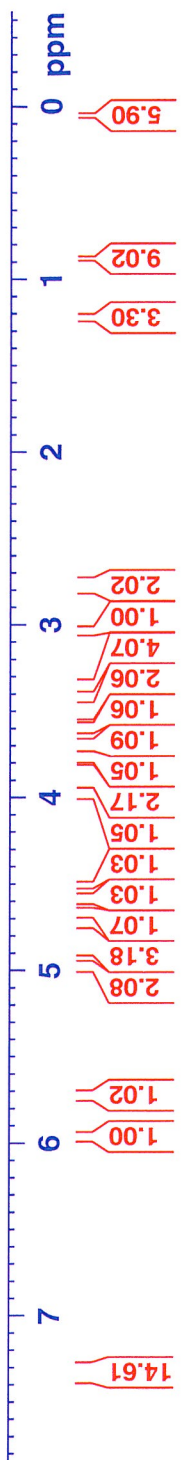


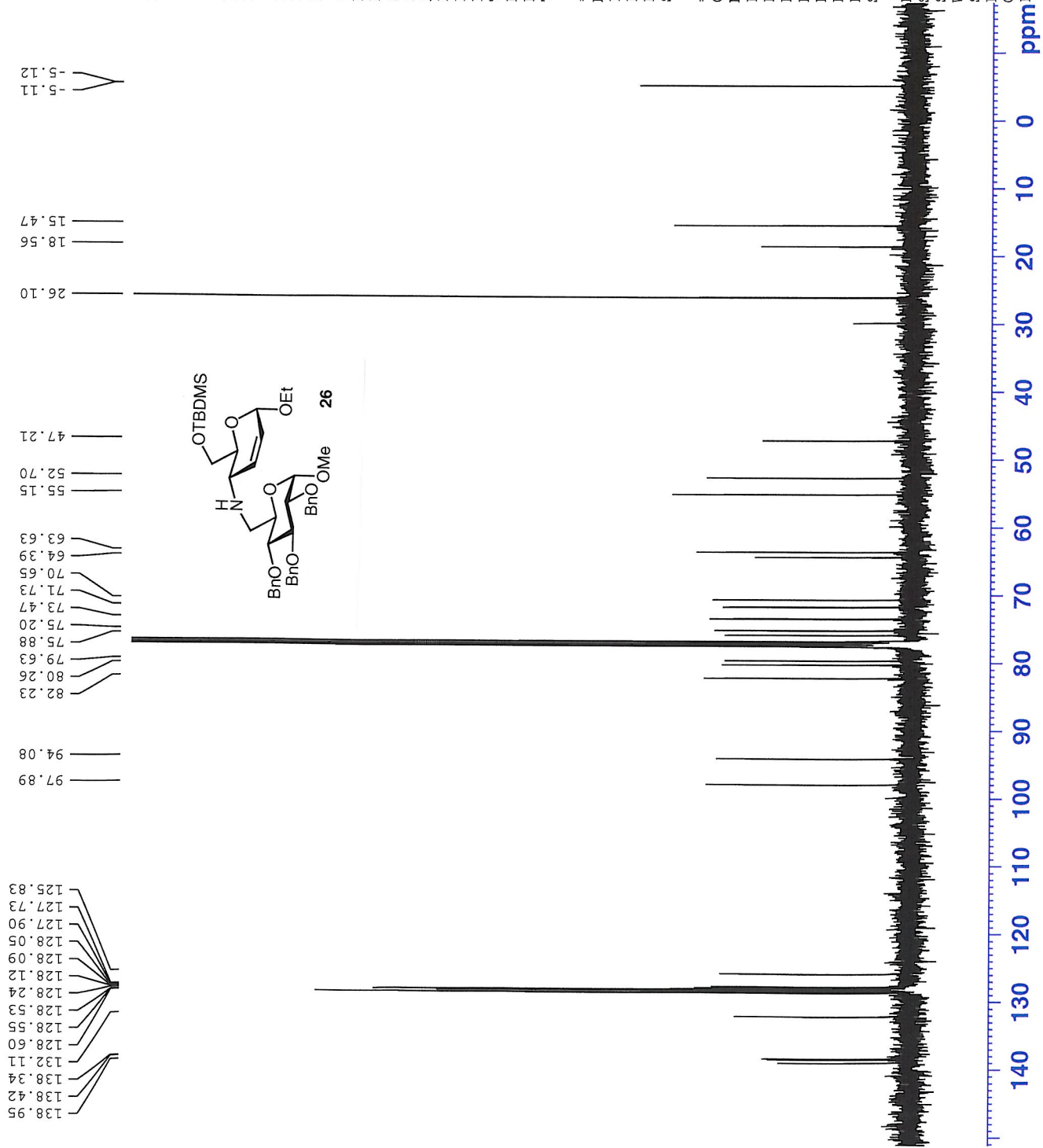
Current Data Parameters
 NAME PEP-30-33-k2-16-25
 EXENO 10
 PROCNO 1

 F2 - Acquisition Parameters
 Date_ 20090604
 Time_ 6.18
 INSTRUM spect
 PROBD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 8223.685 Hz
 FIDRES 0.125483 Hz
 AQ 3.9846387 sec
 RG 181
 DW 60.800 usec
 DE 6.50 usec
 TE 296.9 K
 D1 1.00000000 sec
 TD0 1

 ===== CHANNEL f1 =====
 NUC1 1H
 P1 8.90 usec
 PL1 -4.00 dB
 PL1W 24.73352814 W
 SFO1 400.1324710 MHz

 F2 - Processing parameters
 SI 32768
 SF 400.1300100 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





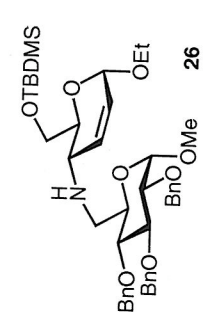
138.95
138.42
138.34
132.11
128.60
128.55
128.53
128.24
128.12
128.09
128.05
127.90
127.73
125.83

97.89
94.08

82.23
80.26
79.63
75.88
75.20
73.47
71.73
70.65
64.39
63.63
55.15
52.70
47.21

26.10
18.56
15.47

5.11
5.12



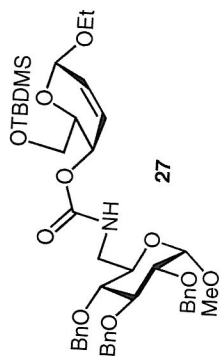
26

Current Data Parameters
NAME PEP-30-33-k2-16-25
EXPNO 12
PROCNO 1
F2 - Acquisition Parameters
Date_ 20090604
Time 12.03
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 2050
DW 20.800 usec
DE 51.93 usec
TE 299.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 6.43 usec
PL1 -3.00 dB
PL1W 69.66502380 W
SFO1 100.6228298 MHz
==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 16.00 dB
PL12 15.00 dB
PL13 15.00 dB
PL2W 0.24733528 W
PL12W 0.31137666 W
PL13W 0.31137666 W
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127541 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

7.363
7.273
6.165
6.152
6.140
6.127
6.000
5.992
5.975
5.967
5.048
5.042
4.997
4.970
4.963
4.957
4.950
4.944
4.857
4.830
4.800
4.769
4.664
4.634
4.615
4.589
4.506
4.497
4.002
3.978
3.956
3.795
3.726
3.461
3.428
3.330
3.304
3.280
1.250
1.231
1.214
0.863
0.041
0.021



Current Data Parameters
NAME PEP-30-33-k2-7-10
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090604
Time 4.57
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 287
DW 60.800 usec
DE 6.50 usec
TE 297.0 K
D1 1.0000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 8.90 usec
PL1 -4.00 dB
PL1W 24.73352814 W
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1300094 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

