

Supporting Information

**Formal Synthesis of *cis*-Solamin: Acid-Catalyzed One-Step Construction of 2,5-
Disubstituted Tetrahydrofuran**

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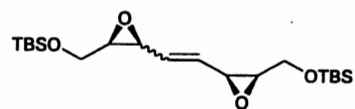
E-mail: miyaokah@toyaku.ac.jp

Tel: +81-42-676-3080

¹H and ¹³C NMR spectra of new compounds and synthetic triol **2**

S2–S24

Current Data Parameters
NAME Compound.4 (EZ)
EXPNO 1
PROCNO 1

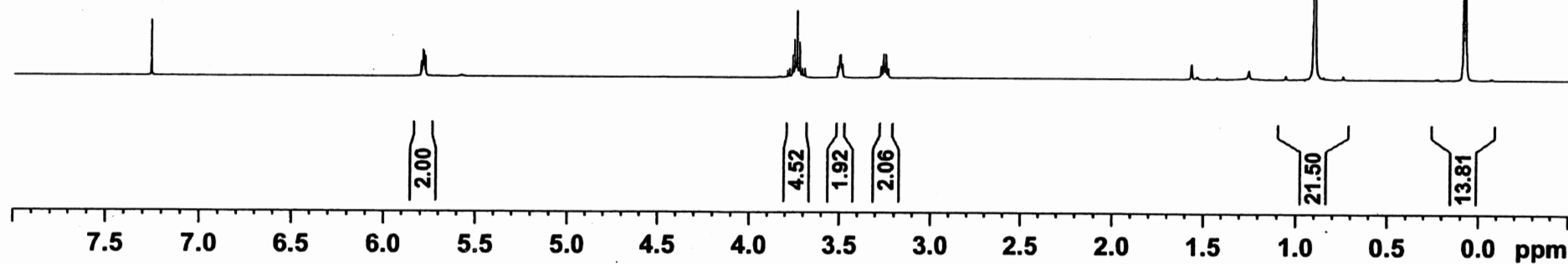
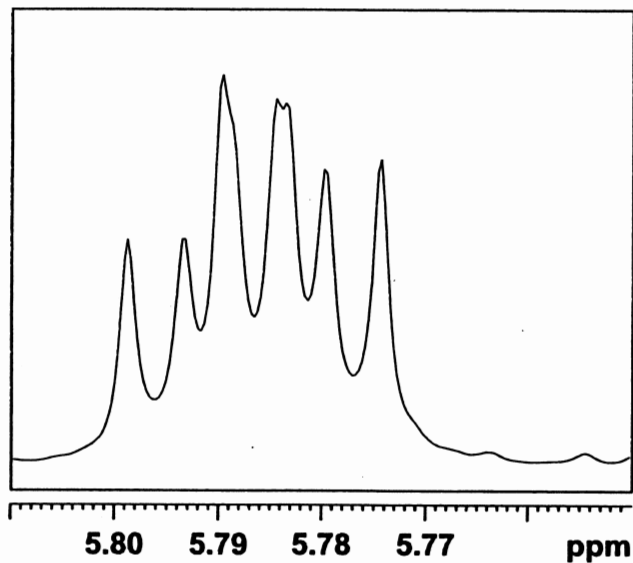


4 (EZ = 1:1)

F2 - Acquisition Parameters
Date_ 20170727
Time_ 17.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 66.62
DW 62.400 usec
DE 6.50 usec
TE 300.2 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters
SI 65536
SF 400.1800093 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



S2

Current Data Parameters
NAME Compound.4 (EZ)
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20170727
Time 17.51
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 512
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 300.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
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NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

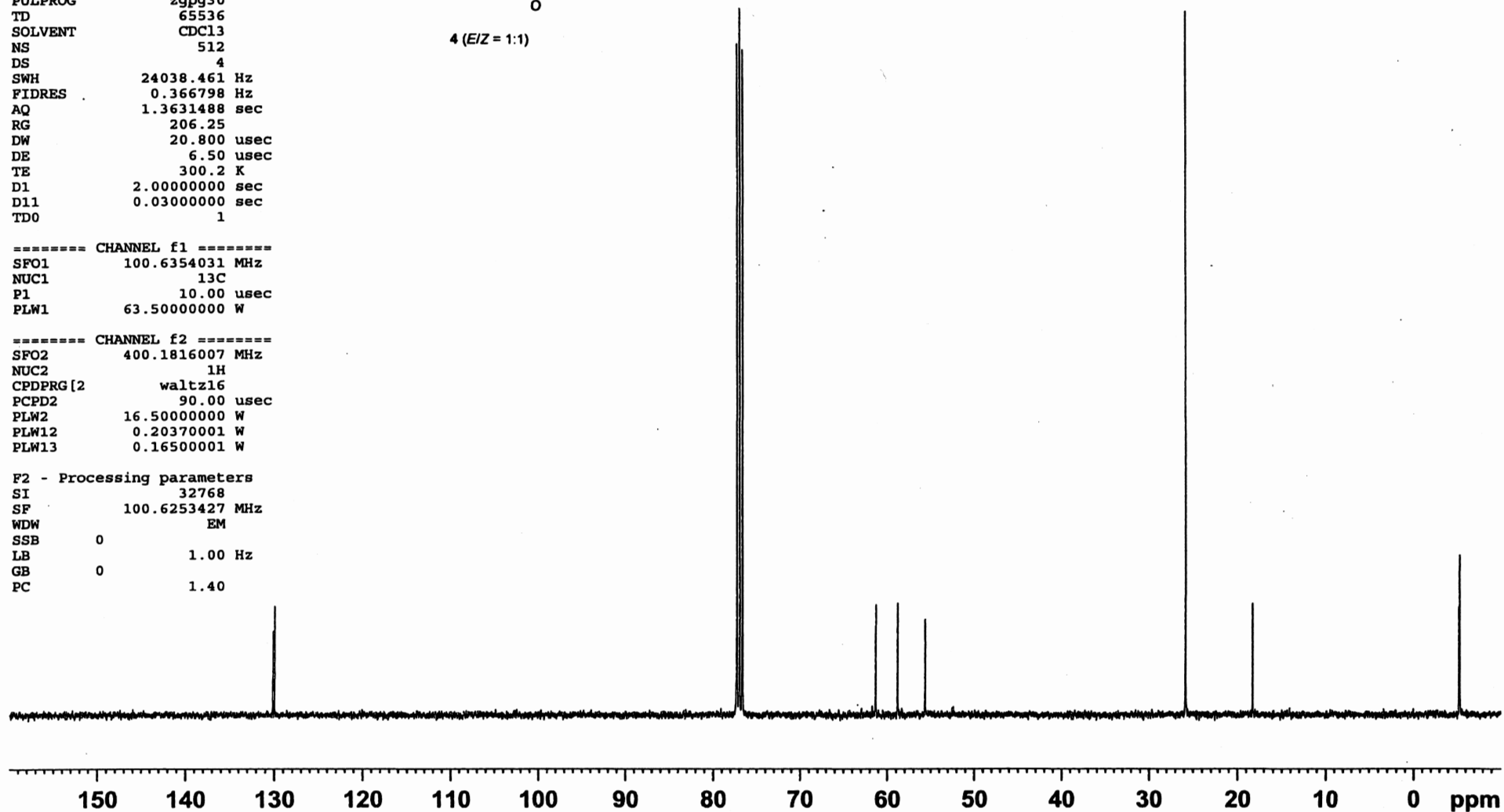
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SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters

SI 32768
SF 100.6253427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



4 (E/Z = 1:1)



Current Data Parameters
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EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

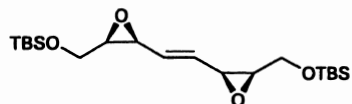
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Time_ 8.43
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PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 7500
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 37.09
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

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

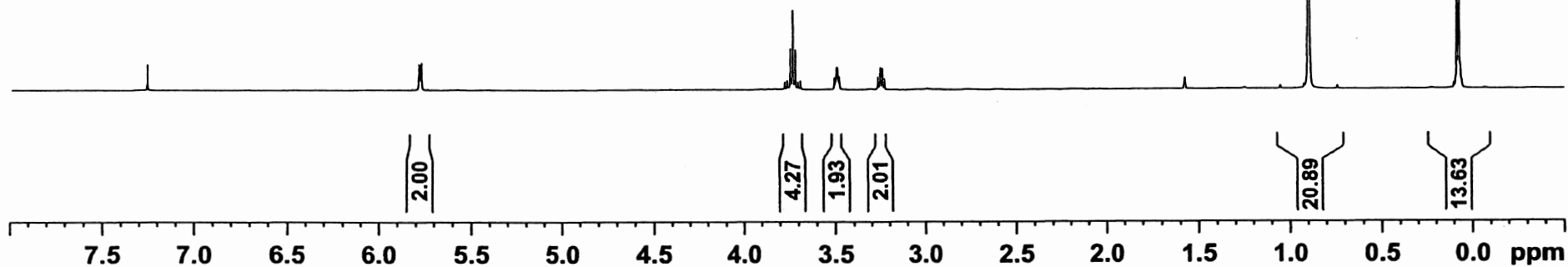
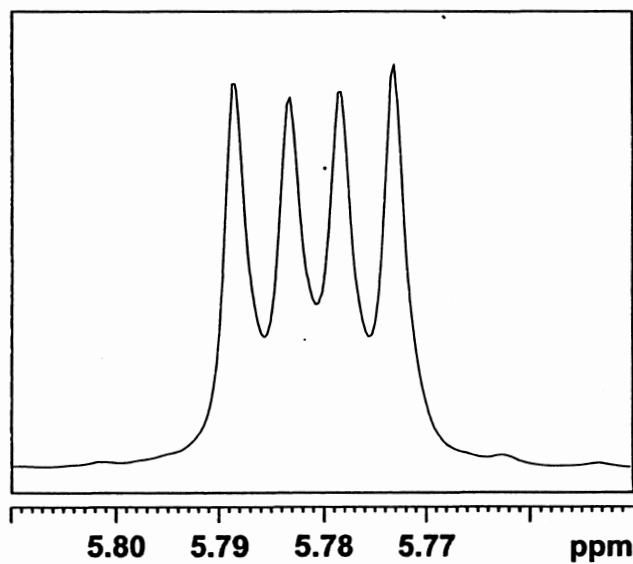
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NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters

SI 65536
SF 400.1800093 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



4 (E isomer)



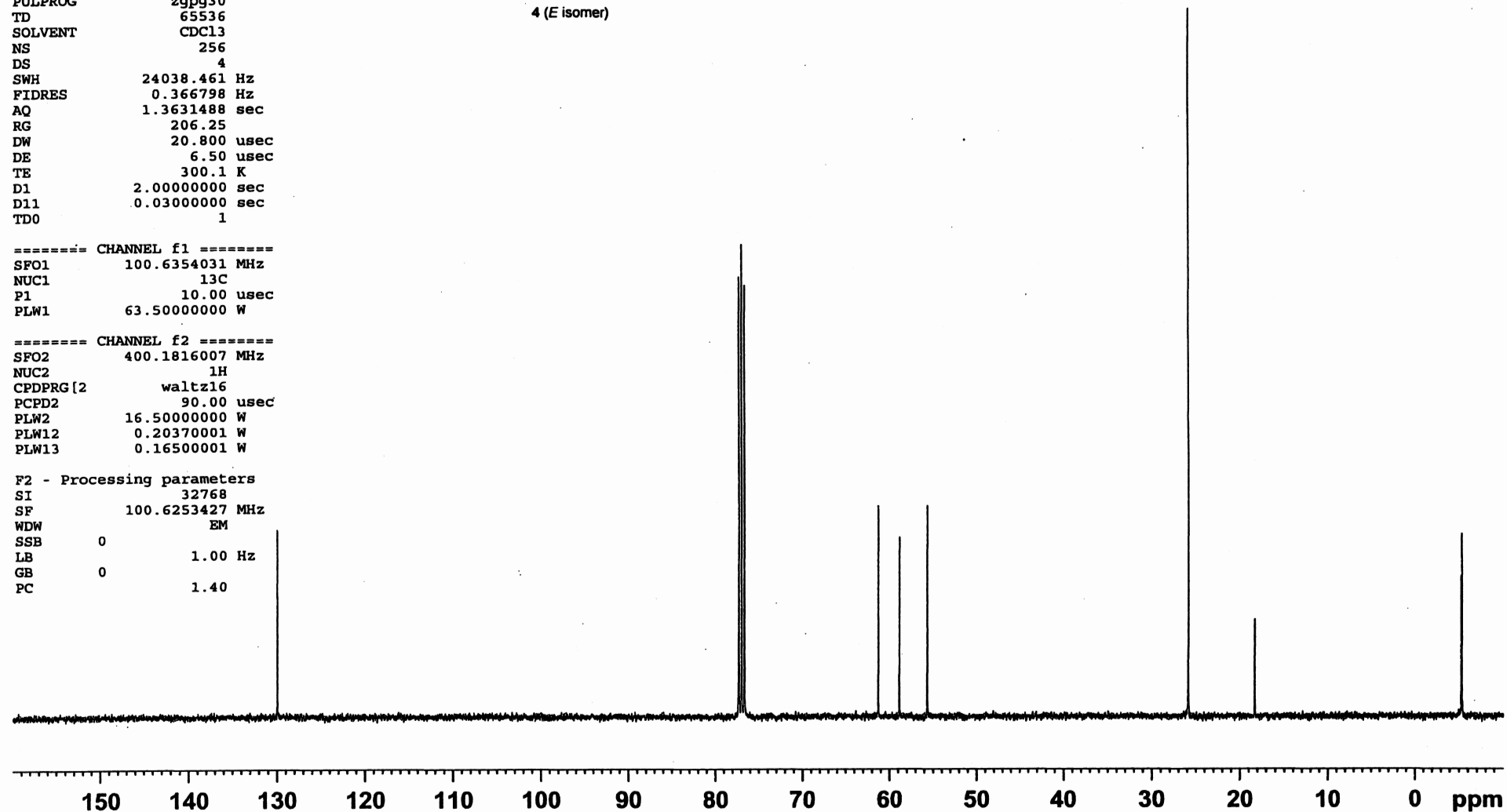
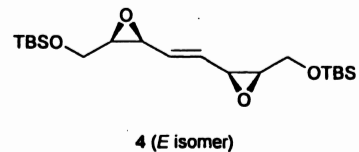
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EXPNO 1
PROCNO 1

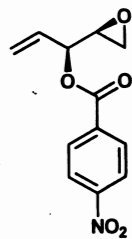
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PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 300.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters
SI 32768
SF 100.6253427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





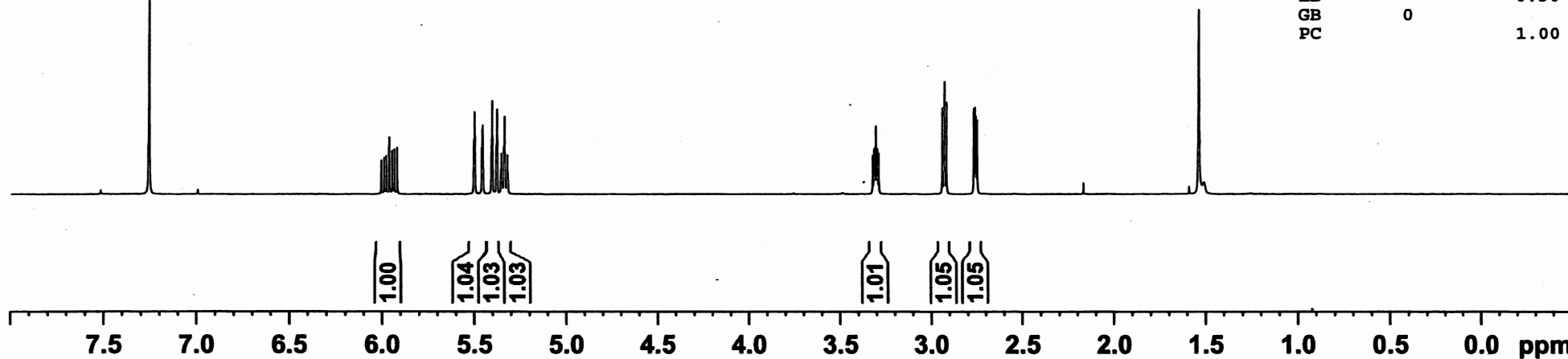
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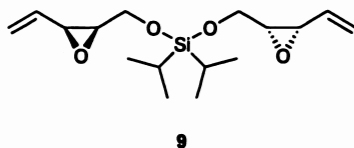
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NAME Compound.7
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170202
Time_ 20.48
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PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 104.97
DW 62.400 usec
DE 6.50 usec
TE 299.9 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters
SI 65536
SF 400.180097 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



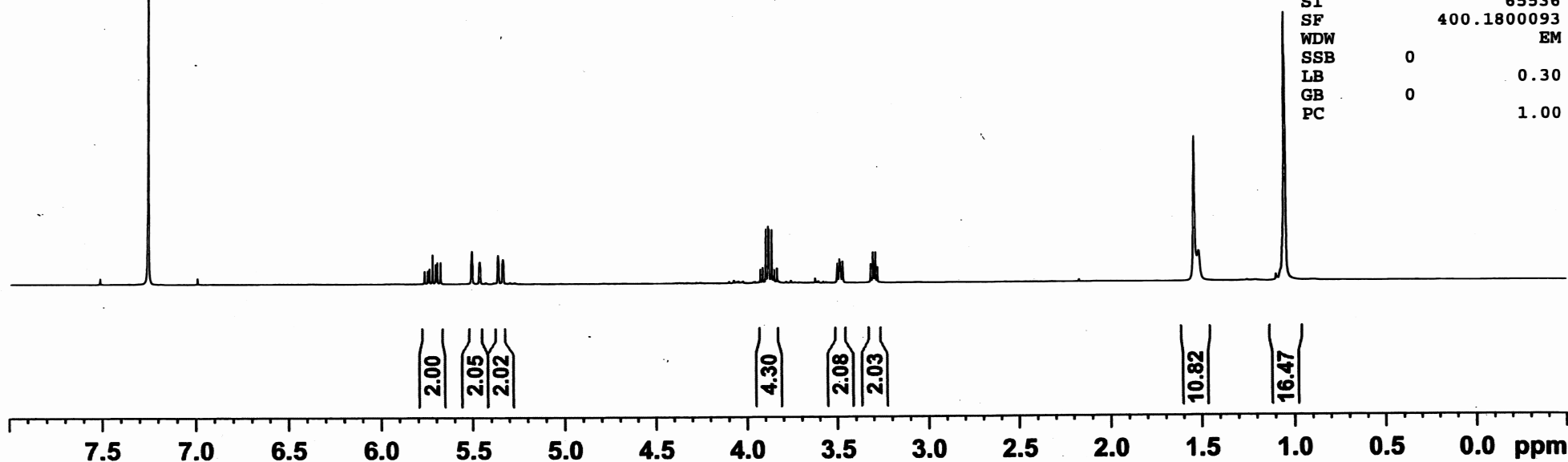


Current Data Parameters
 NAME Compound.9
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20170513
 Time 13.19
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 184.75
 DW 62.400 usec
 DE 6.50 usec
 TE 296.9 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 400.1824713 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.50000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1800093 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters
NAME Compound.9
EXPNO 1
PROCNO 1

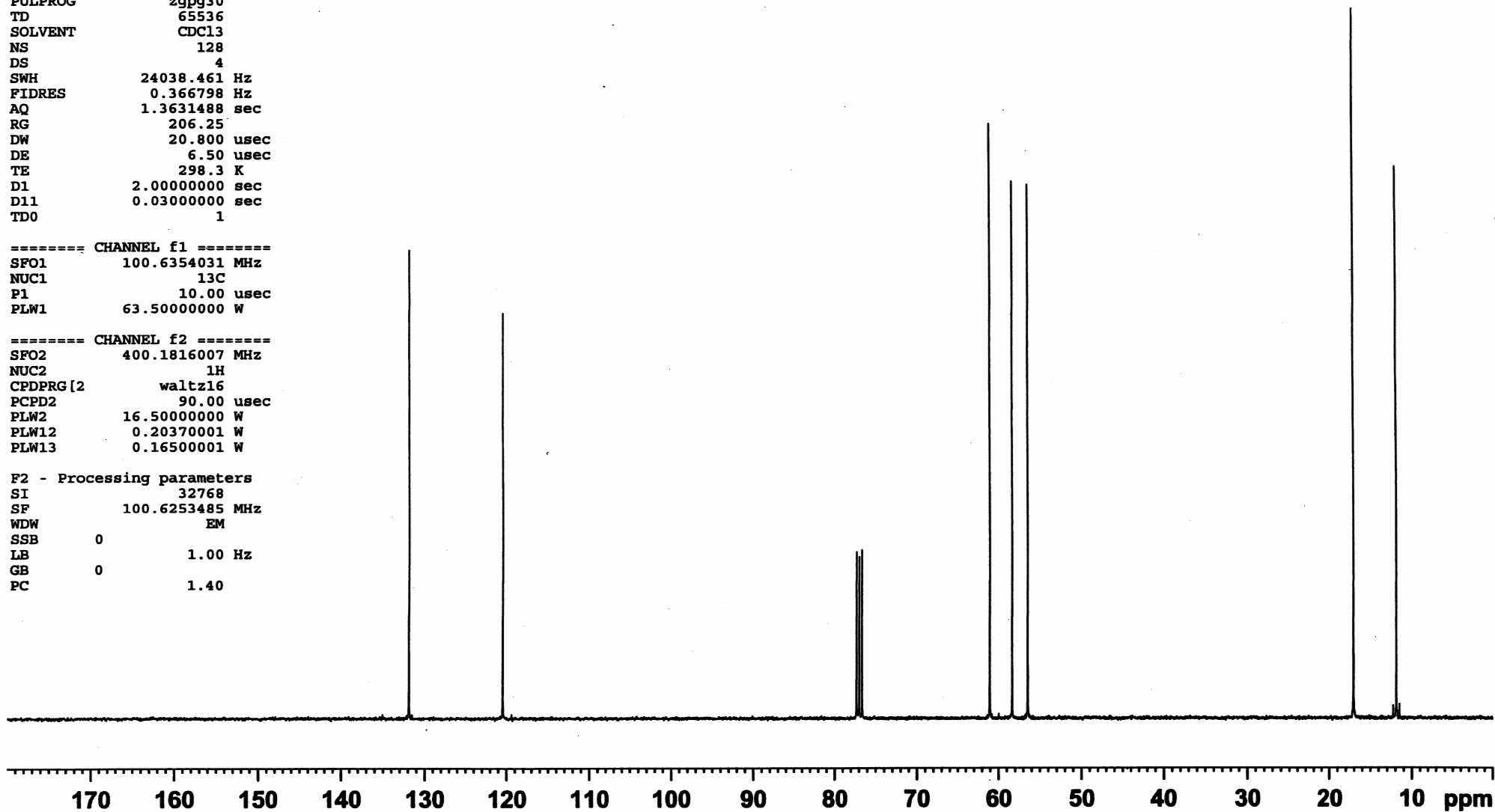
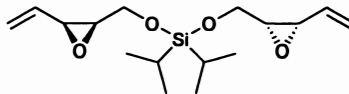
F2 - Acquisition Parameters

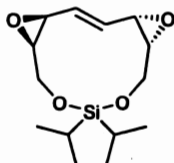
Date_ 20170513
Time_ 13.29
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 128
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 298.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

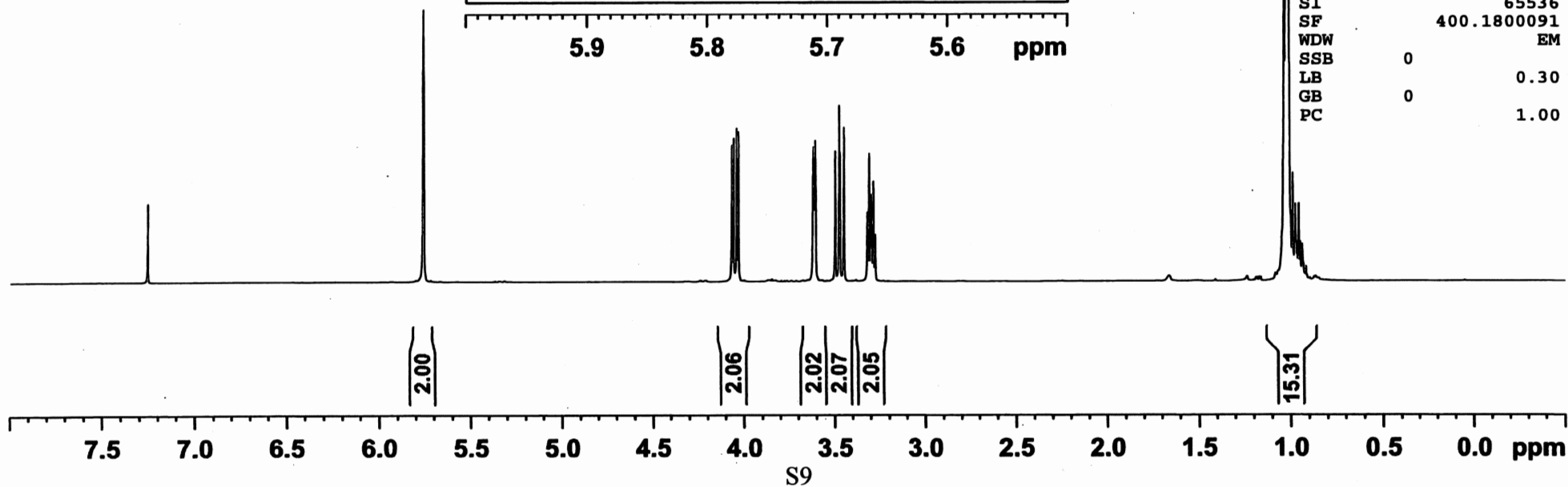
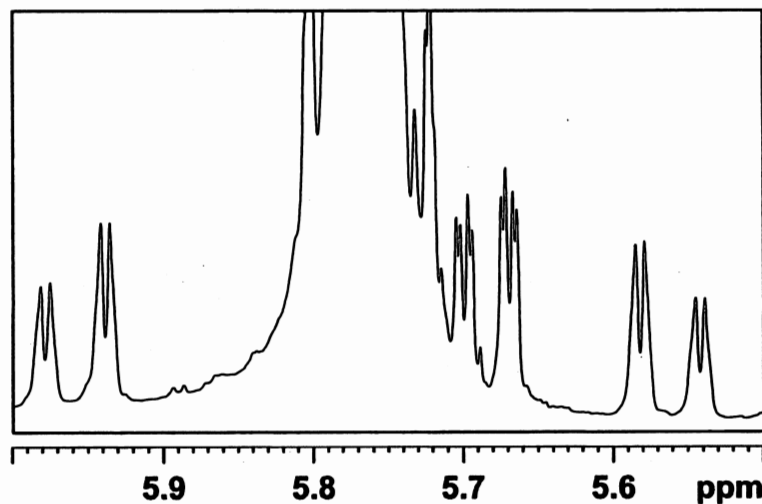
===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters
SI 32768
SF 100.6253485 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





10



Current Data Parameters
NAME Compound.10
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171128
Time 8.03
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 7500
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 20.03
DW 62.400 usec
DE 6.50 usec
TE 299.9 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters
SI 65536
SF 400.1800091 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Current Data Parameters
NAME Compound.10
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

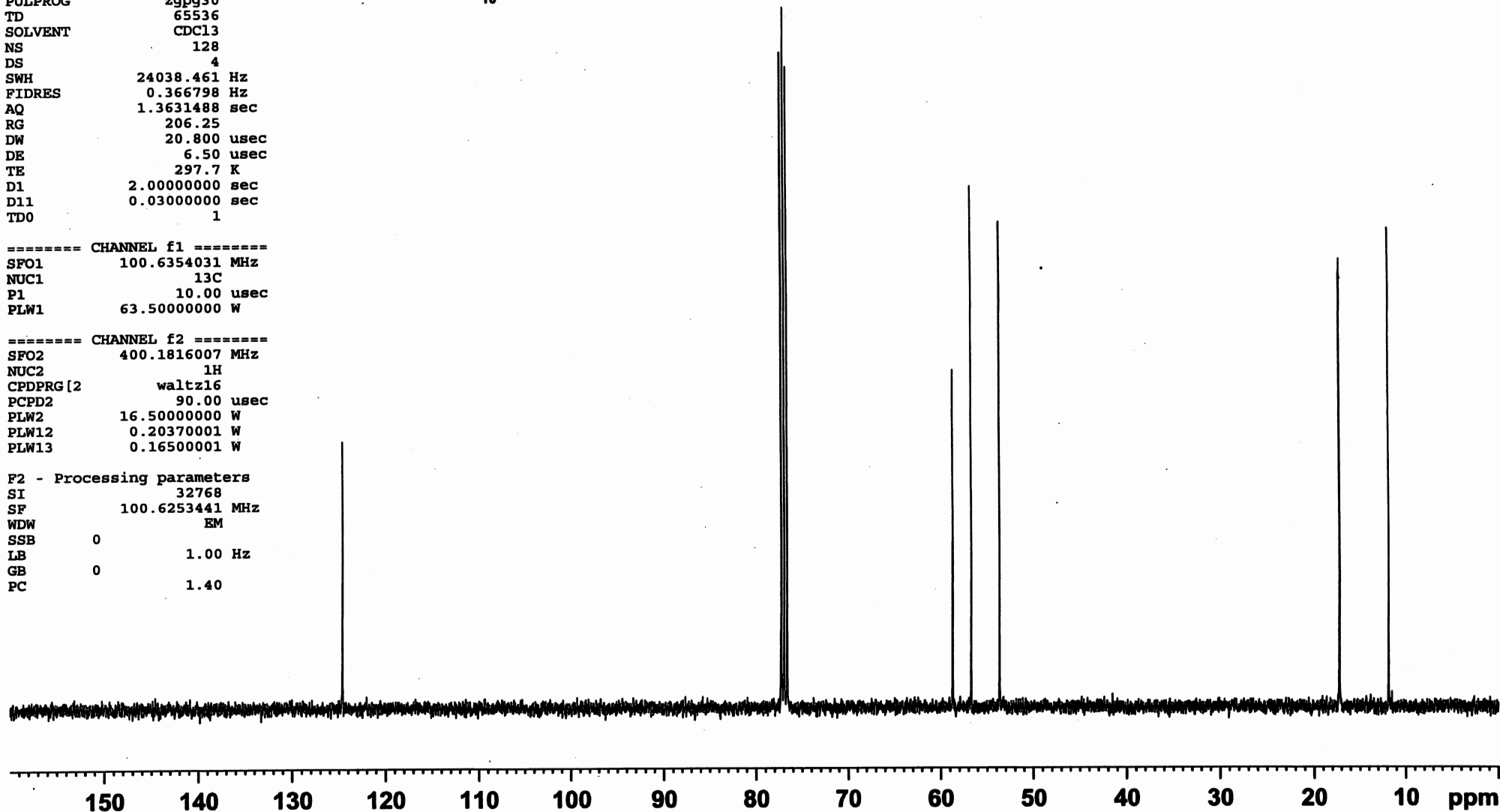
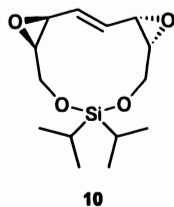
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Time_ 14.58
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PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 128
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 297.7 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

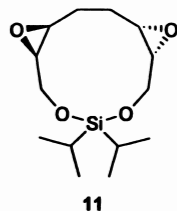
===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters

SI 32768
SF 100.6253441 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



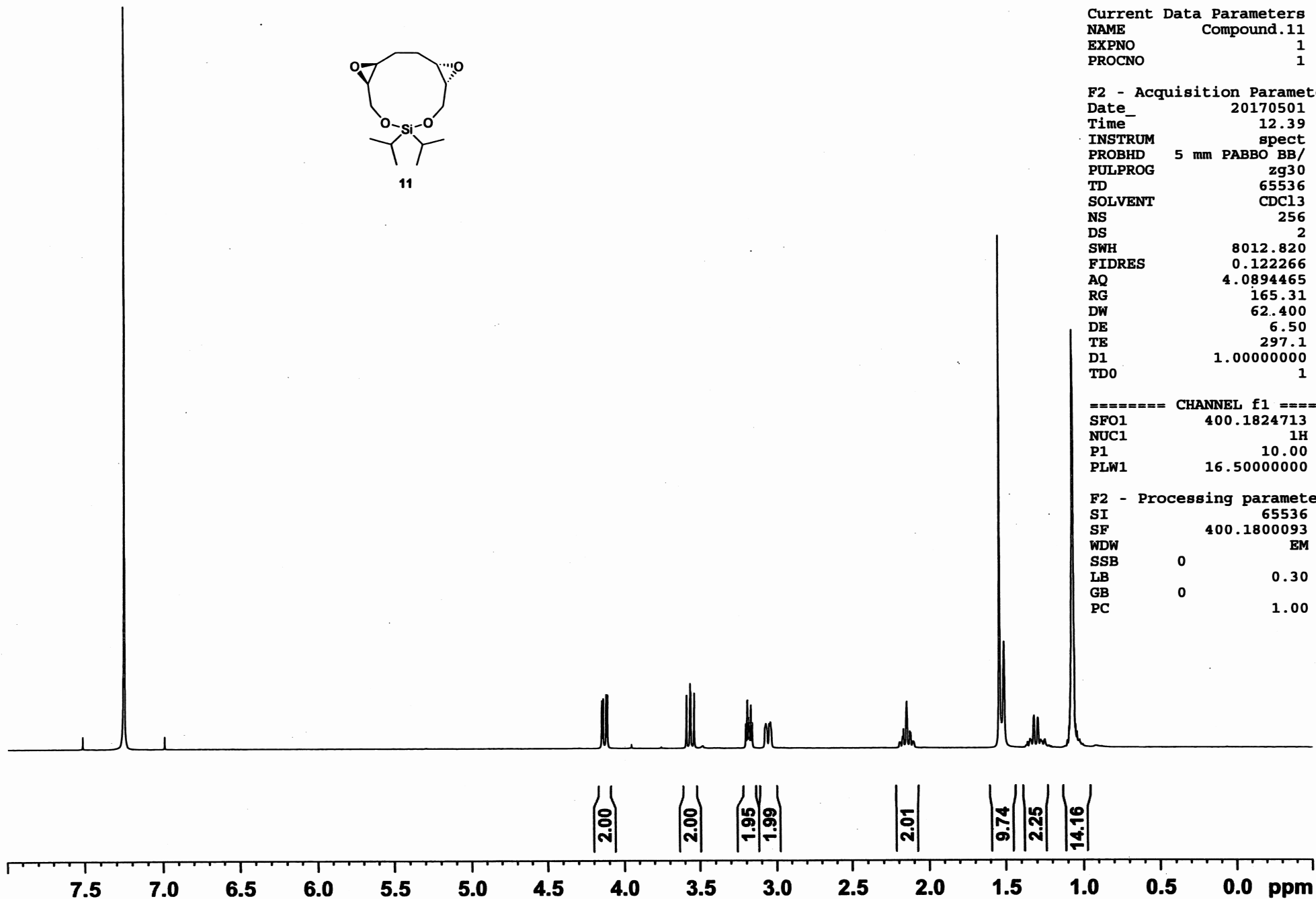


Current Data Parameters
 NAME Compound.11
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20170501
 Time 12.39
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 256
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 165.31
 DW 62.400 usec
 DE 6.50 usec
 TE 297.1 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 400.1824713 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.50000000 W

F2 - Processing parameters
 SI 65536
 SF 400.180093 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



Current Data Parameters

NAME Compound.11
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20170501
Time_ 12.04
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 128
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 297.5 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----

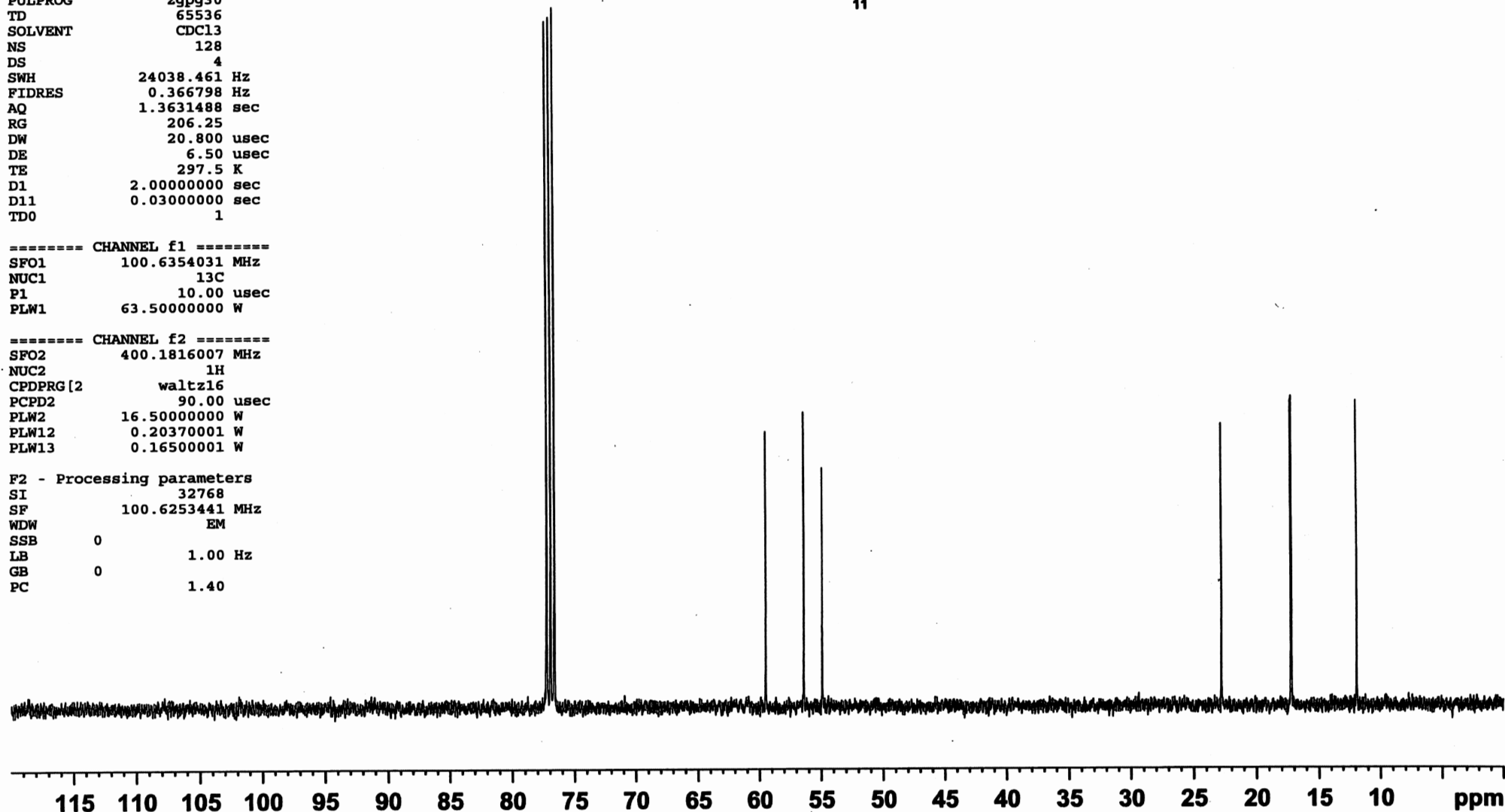
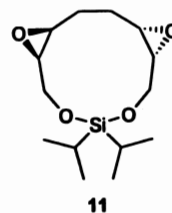
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

----- CHANNEL f2 -----

SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters

SI 32768
SF 100.6253441 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



Current Data Parameters

NAME Compound.12
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

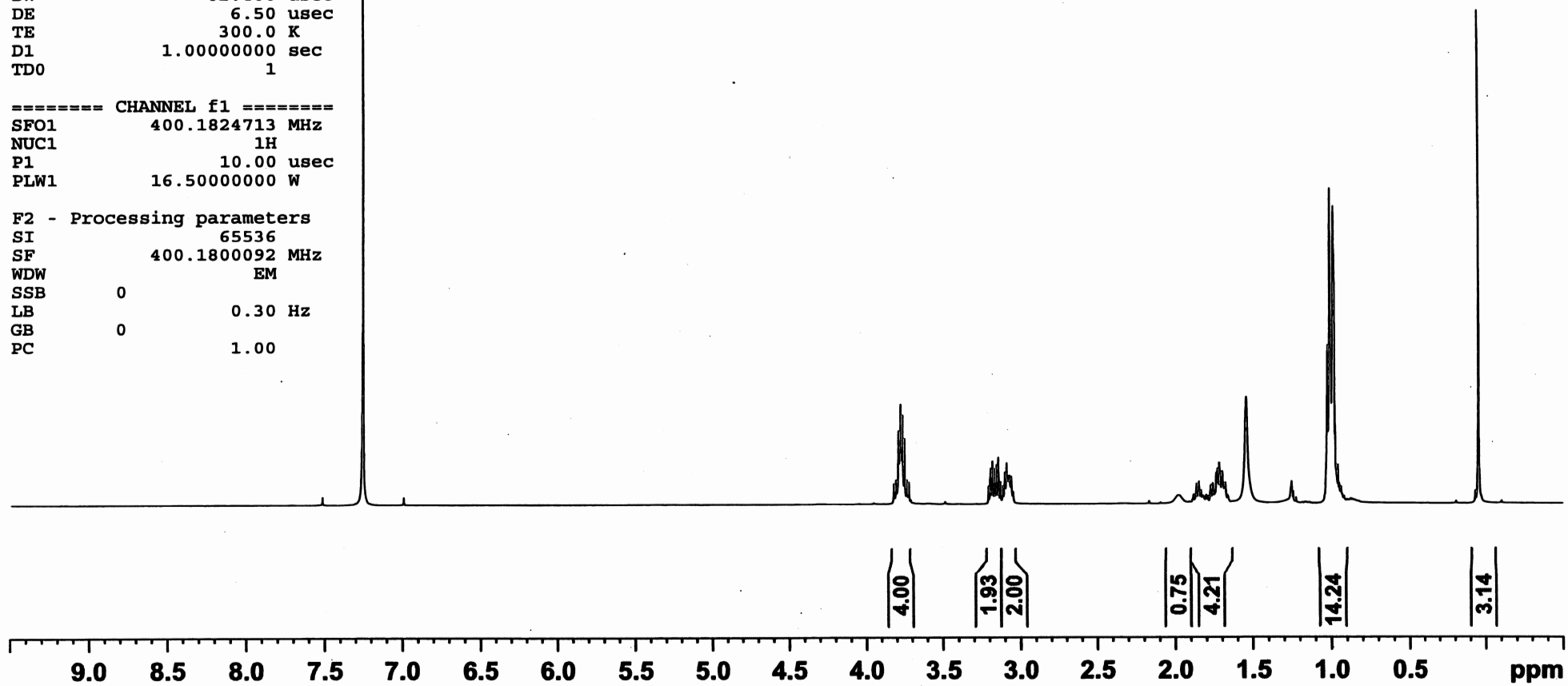
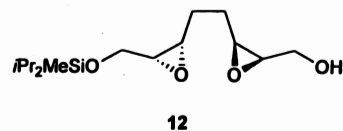
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Time 15.46
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PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 256
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 104.97
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

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

SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters

SI 65536
SF 400.1800092 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



Current Data Parameters
NAME Compound.12
EXPNO 1
PROCNO 1

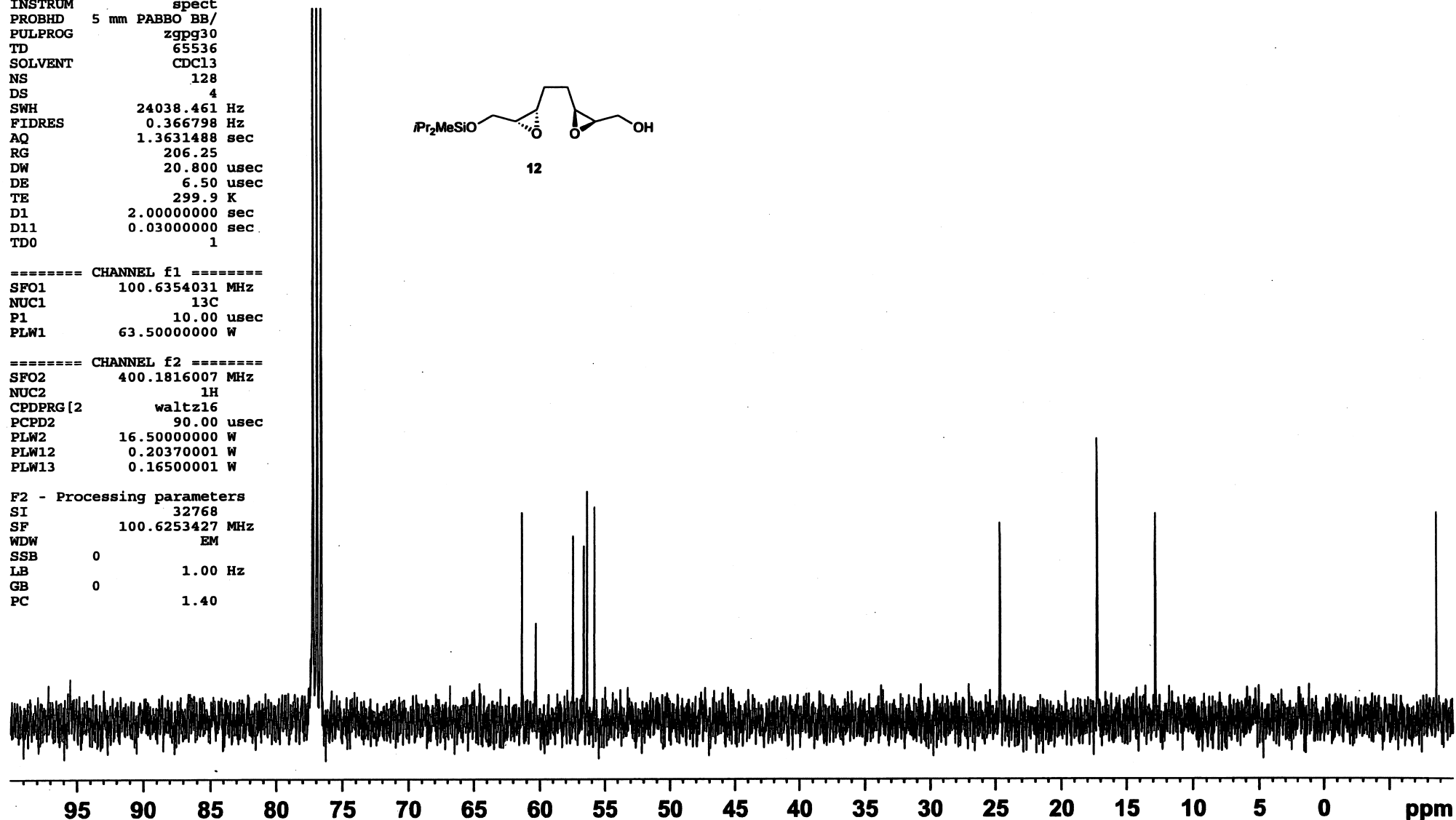
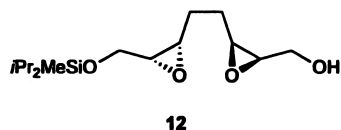
F2 - Acquisition Parameters

Date_ 20170624
Time 15.57
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PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 128
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 299.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters
SI 32768
SF 100.6253427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





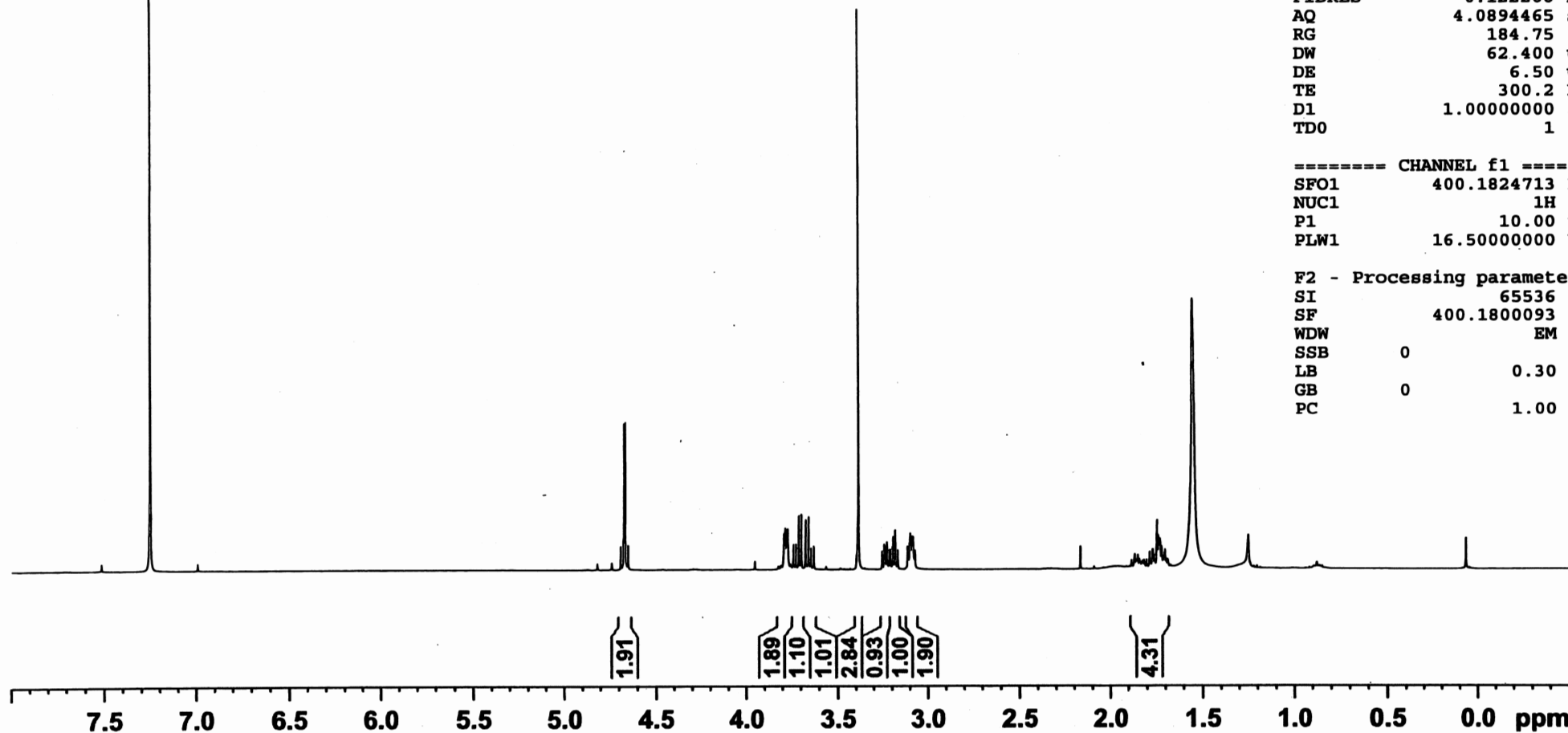
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Current Data Parameters
NAME Compound.13
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170624
Time_ 15.12
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 256
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 184.75
DW 62.400 usec
DE 6.50 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters
SI 65536
SF 400.1800093 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



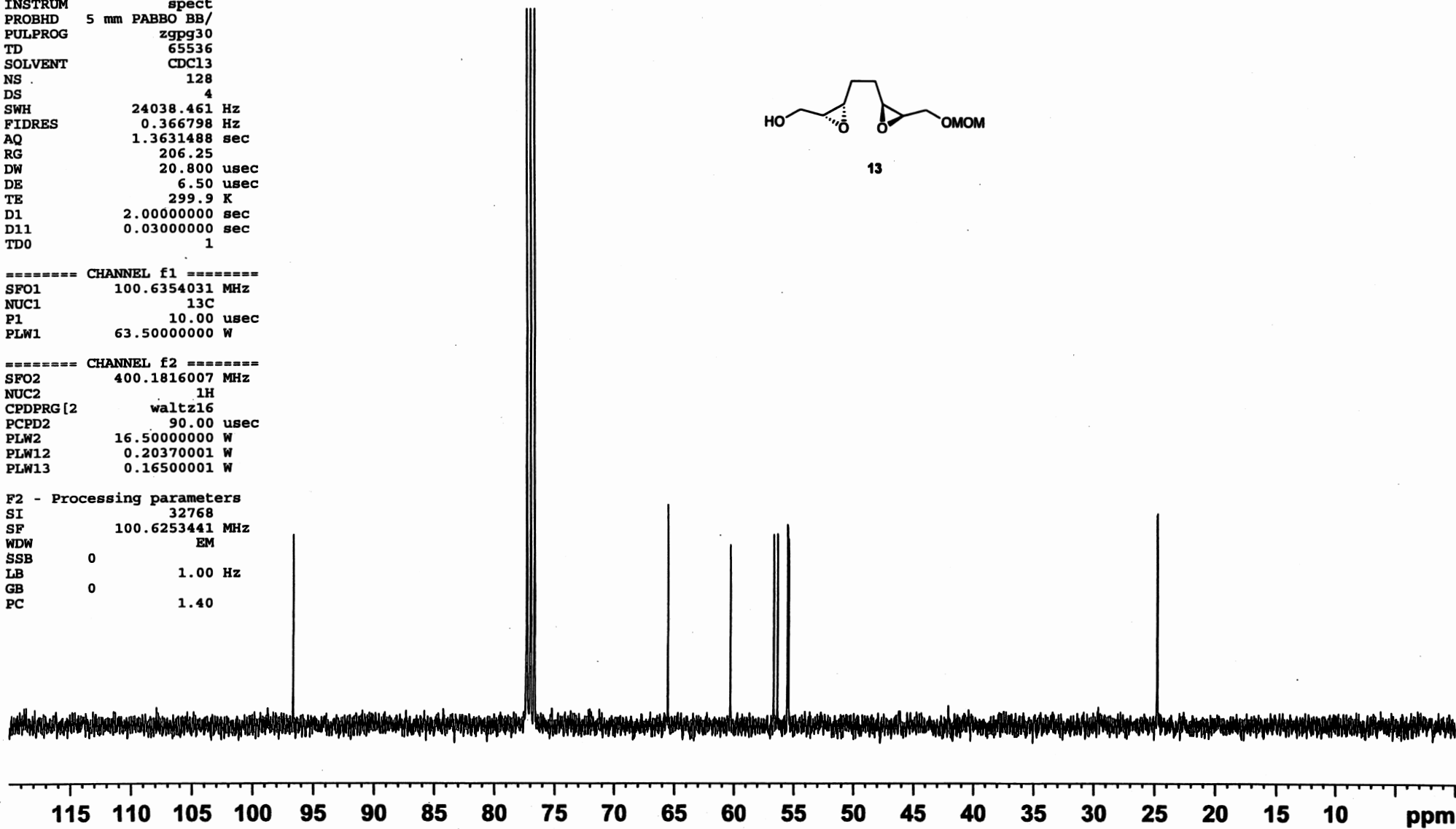
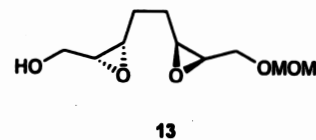
Current Data Parameters
NAME Compound.13
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
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Time 14.36
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PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 128
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 299.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters
SI 32768
SF 100.6253441 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





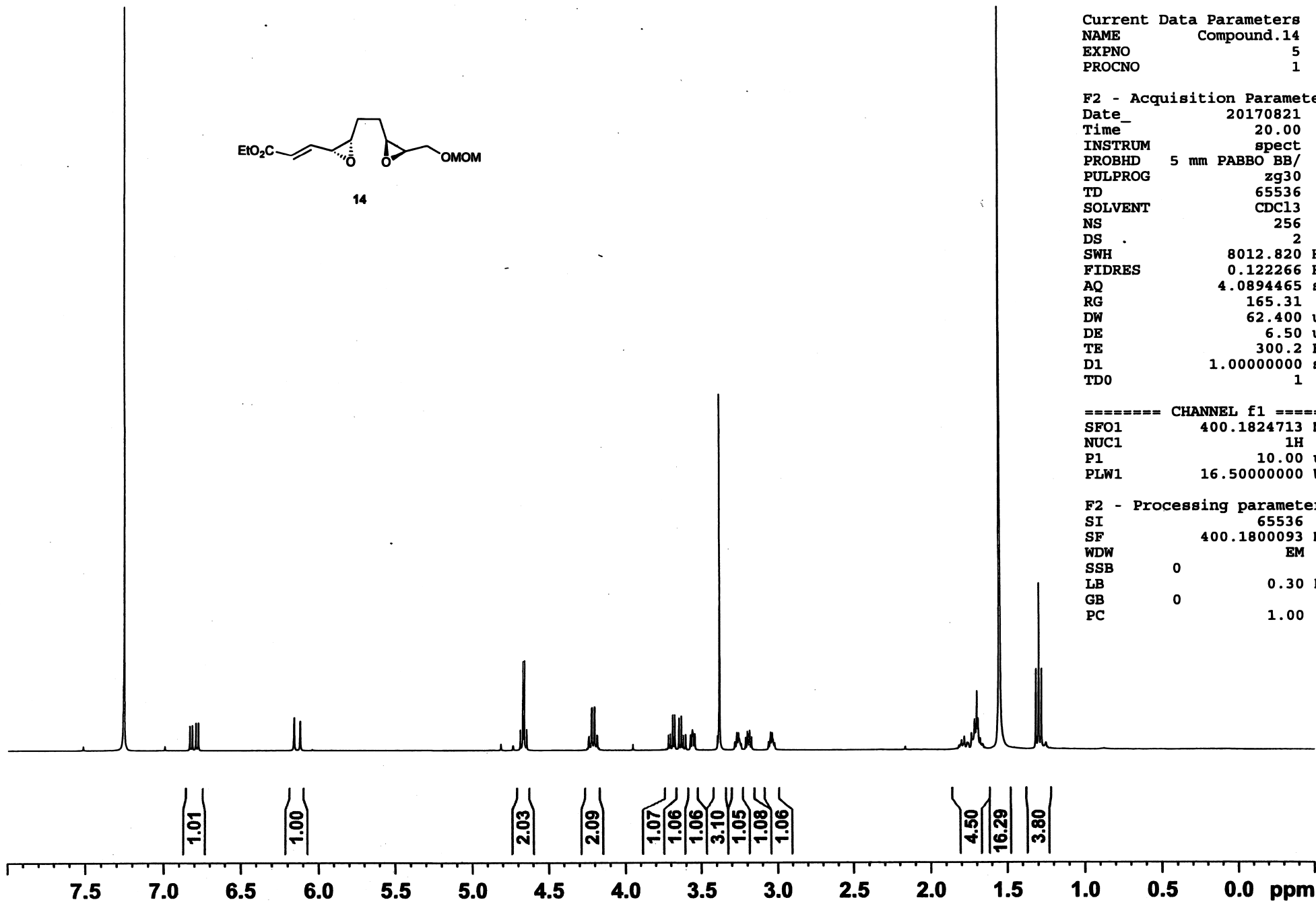
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Current Data Parameters
NAME Compound.14
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170821
Time 20.00
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 256
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 165.31
DW 62.400 usec
DE 6.50 usec
TE 300.2 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters
SI 65536
SF 400.1800093 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



S17

Current Data Parameters
NAME Compound.14
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170821
Time 16.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 128
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

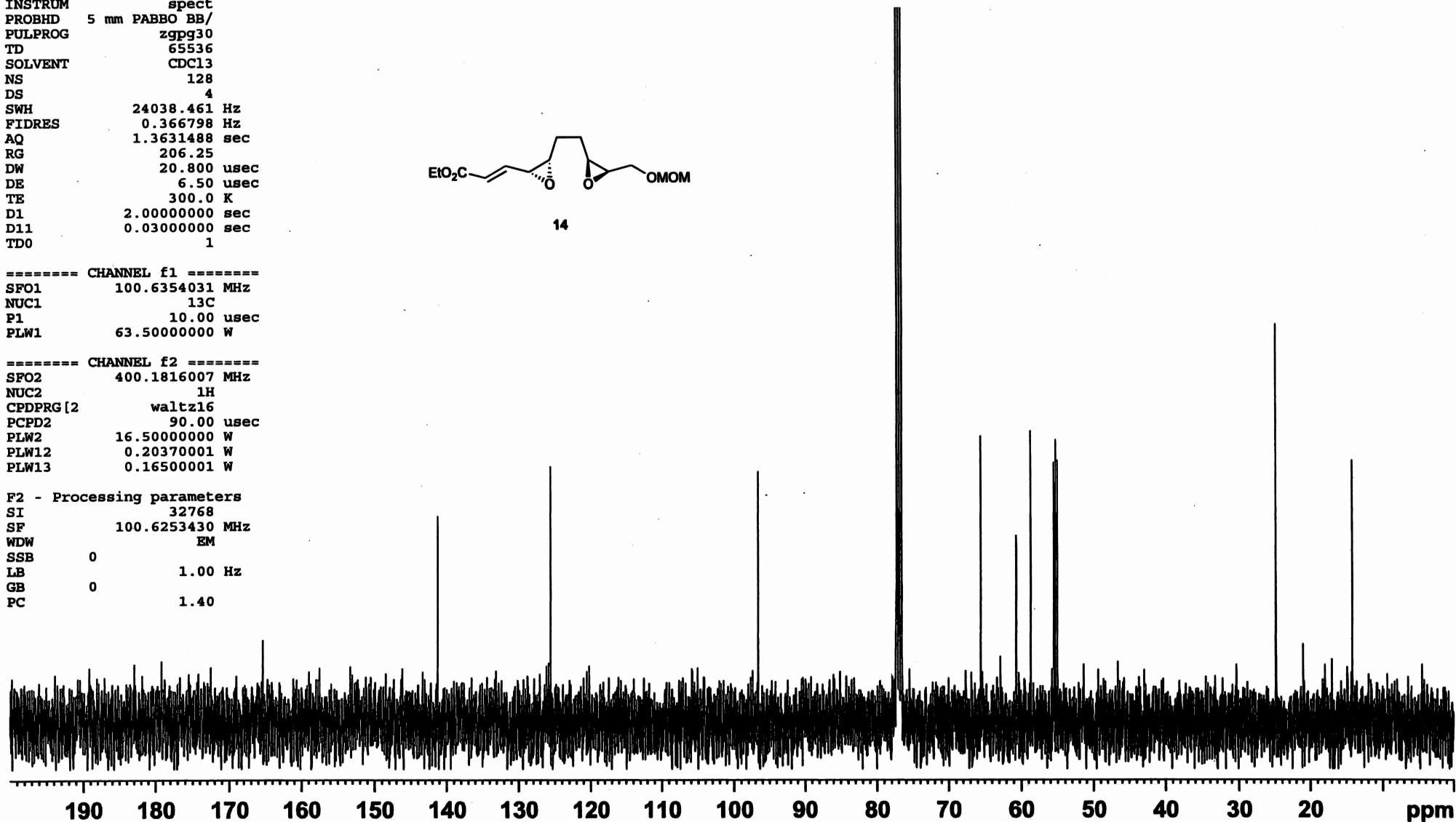


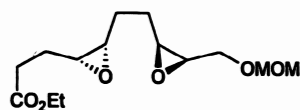
14

===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters
SI 32768
SF 100.6253430 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40





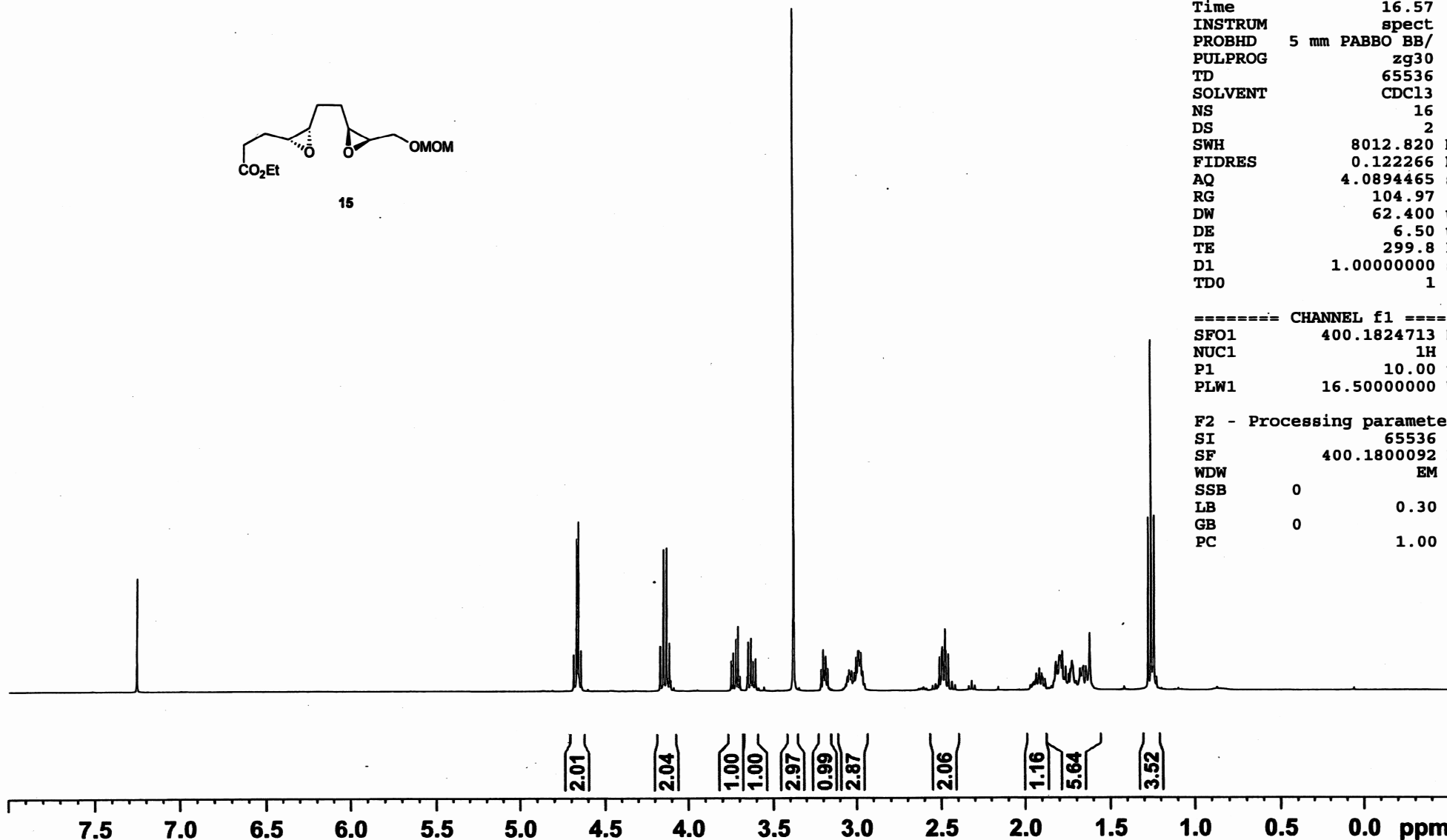
15

Current Data Parameters
NAME Compound.15
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171204
Time 16.57
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 104.97
DW 62.400 usec
DE 6.50 usec
TE 299.8 K
D1 1.00000000 sec
TD0 1

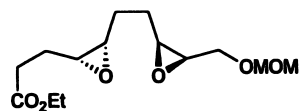
===== CHANNEL f1 =====
SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters
SI 65536
SF 400.1800092 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



Current Data Parameters
NAME Compound.15
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20171204
Time 17.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 299.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

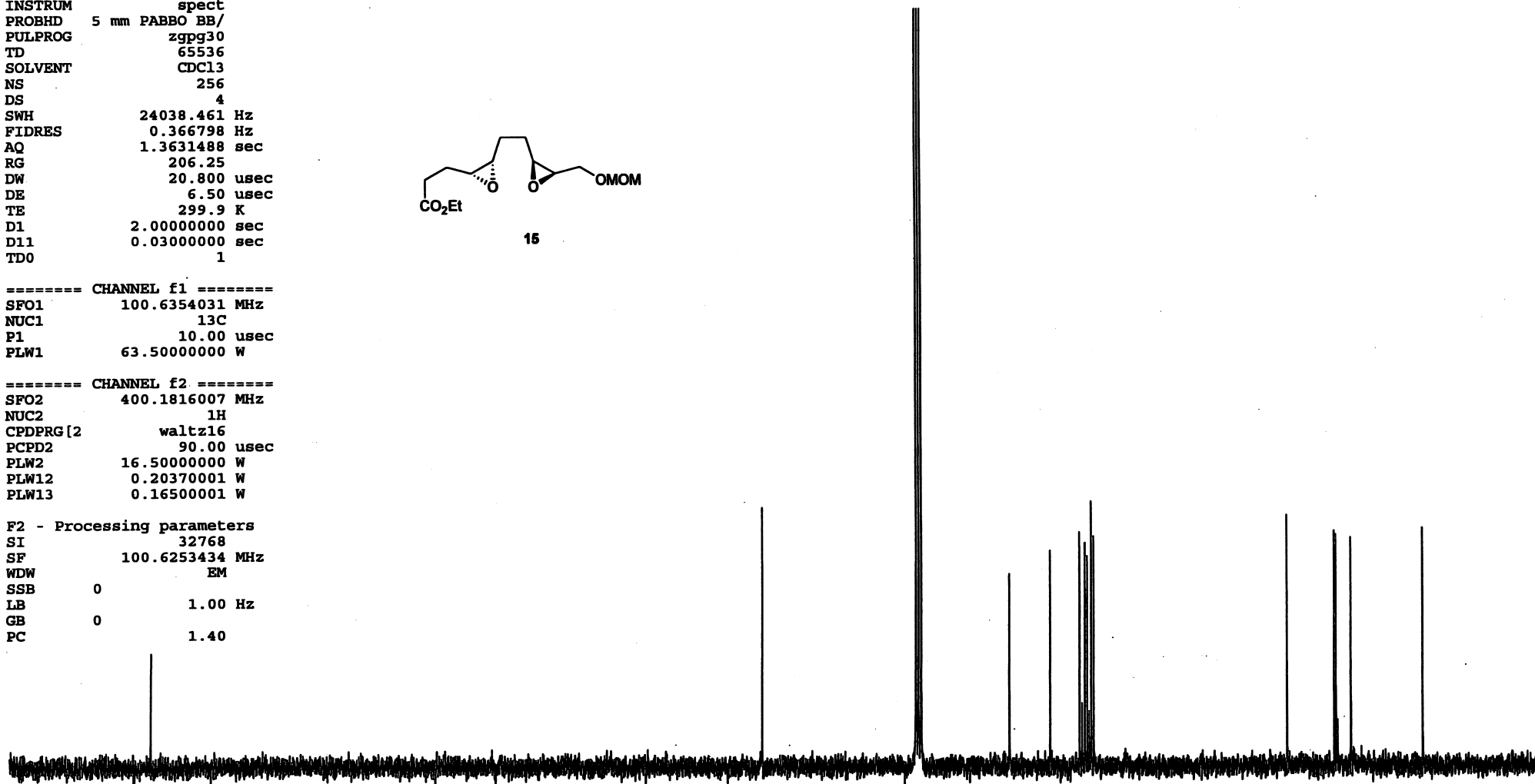


15

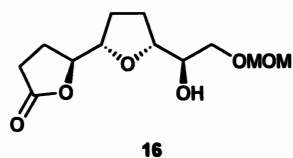
===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters
SI 32768
SF 100.6253434 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm



Current Data Parameters

NAME Compound.16
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

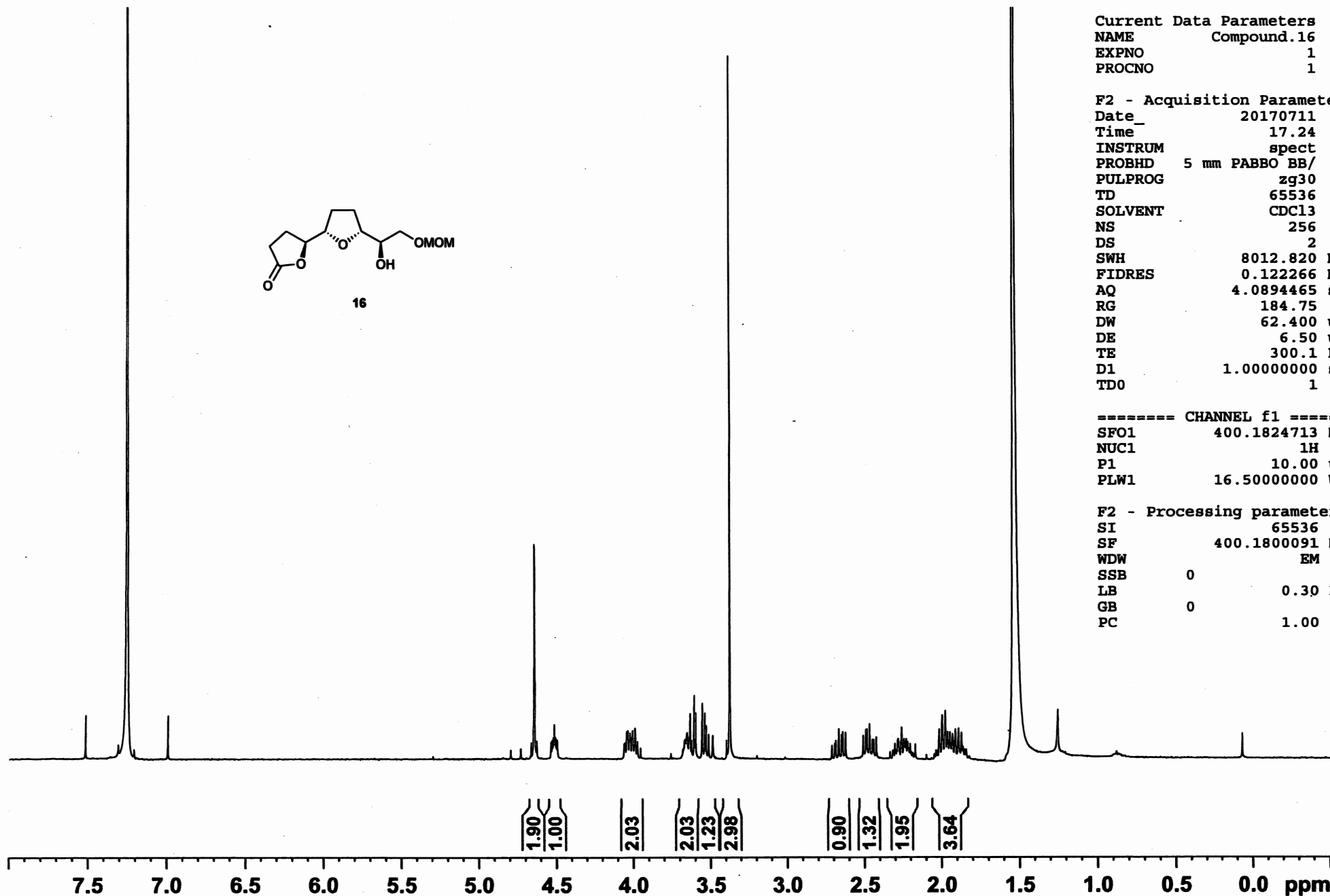
Date_ 20170711
Time 17.24
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 256
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 184.75
DW 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----

SFO1 400.1824713 MHz
NUC1 1H
P1 10.00 usec
PLW1 16.50000000 W

F2 - Processing parameters

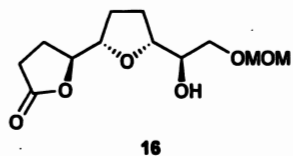
SI 65536
SF 400.1800091 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



Current Data Parameters
NAME Compound.16
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

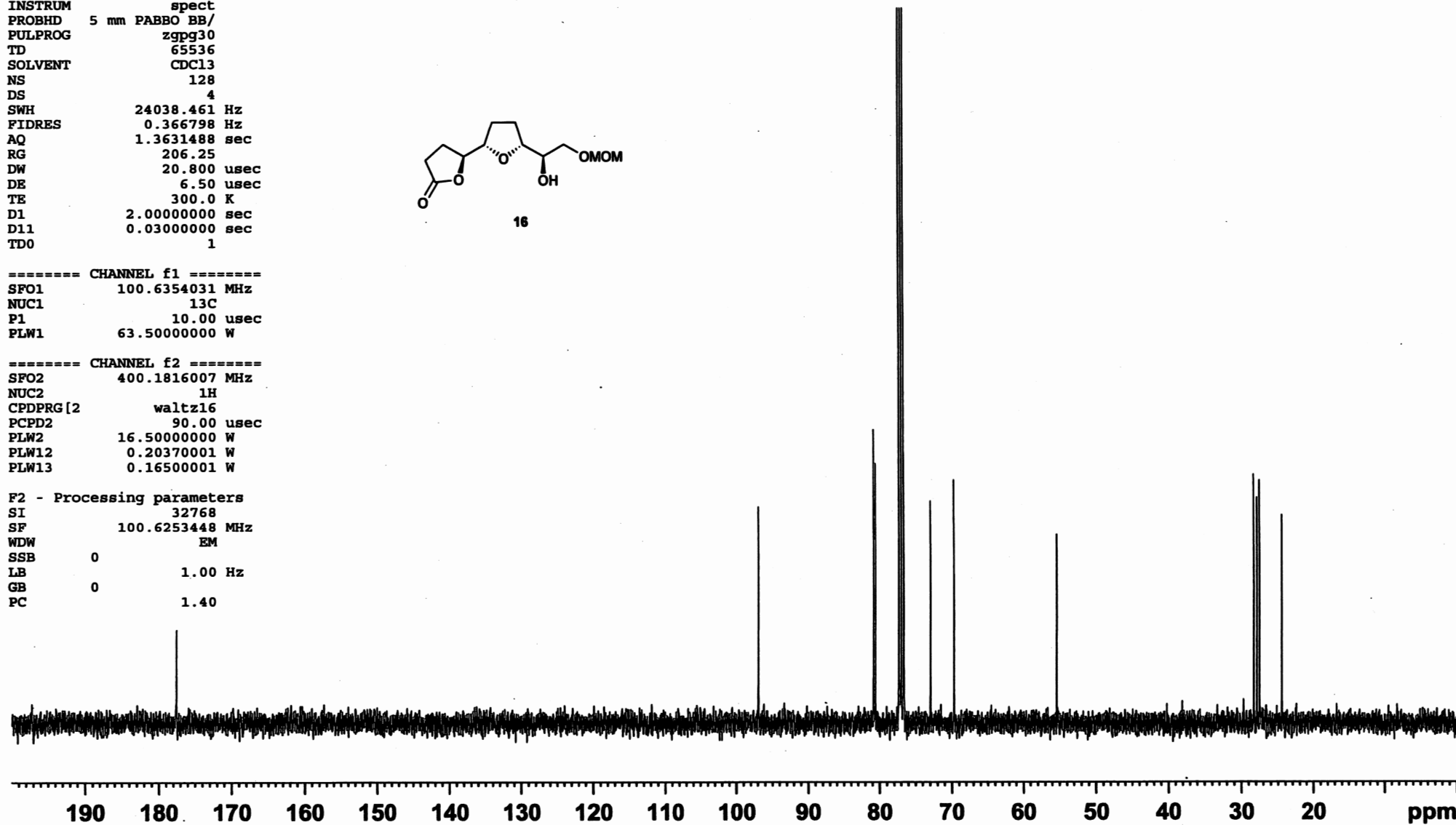
Date_ 20170711
Time 17.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 128
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.25
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

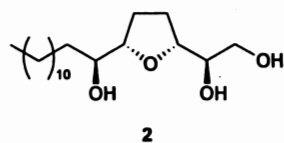


===== CHANNEL f1 =====
SFO1 100.6354031 MHz
NUC1 13C
P1 10.00 usec
PLW1 63.50000000 W

===== CHANNEL f2 =====
SFO2 400.1816007 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 16.50000000 W
PLW12 0.20370001 W
PLW13 0.16500001 W

F2 - Processing parameters
SI 32768
SF 100.6253448 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



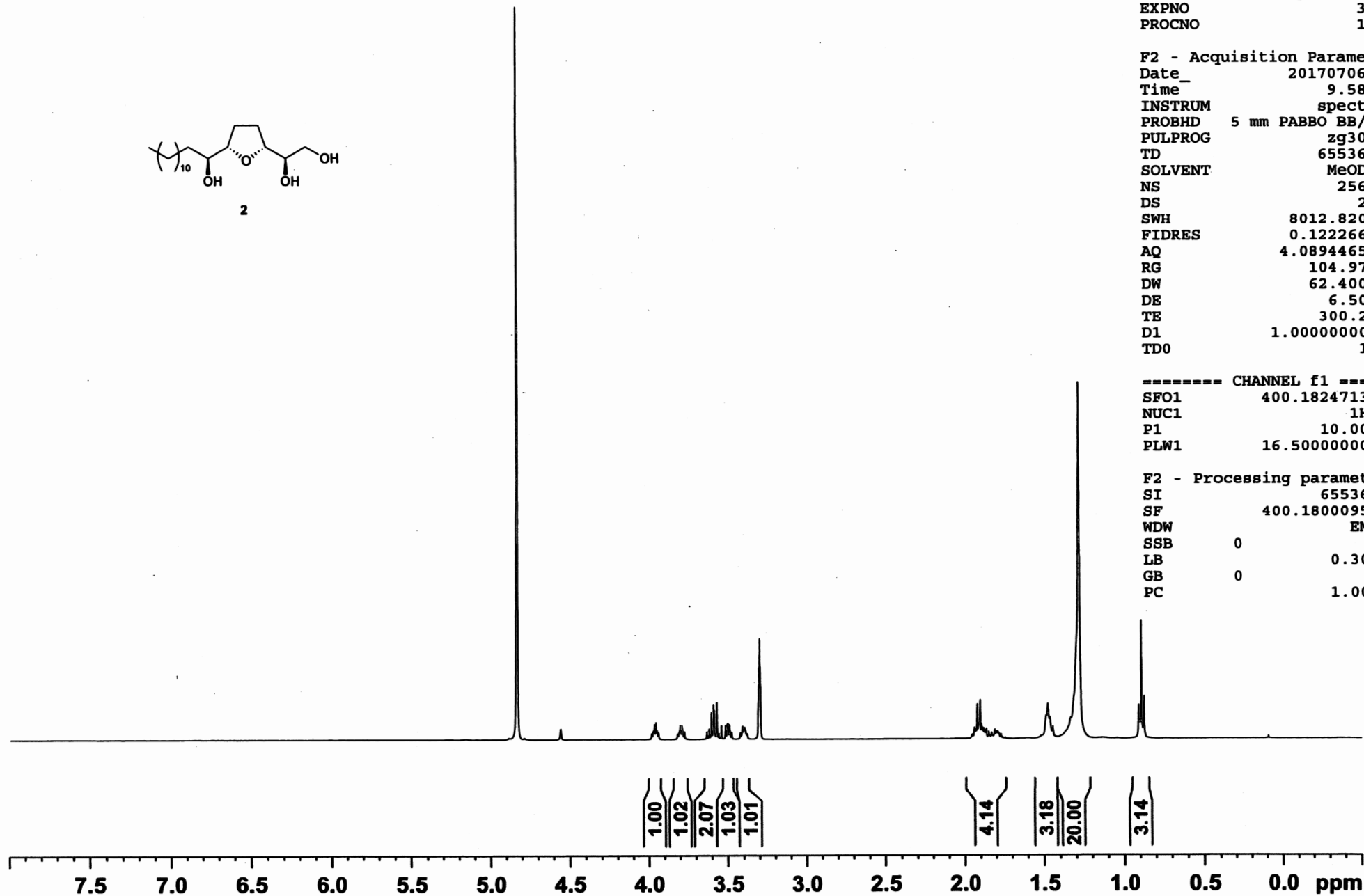


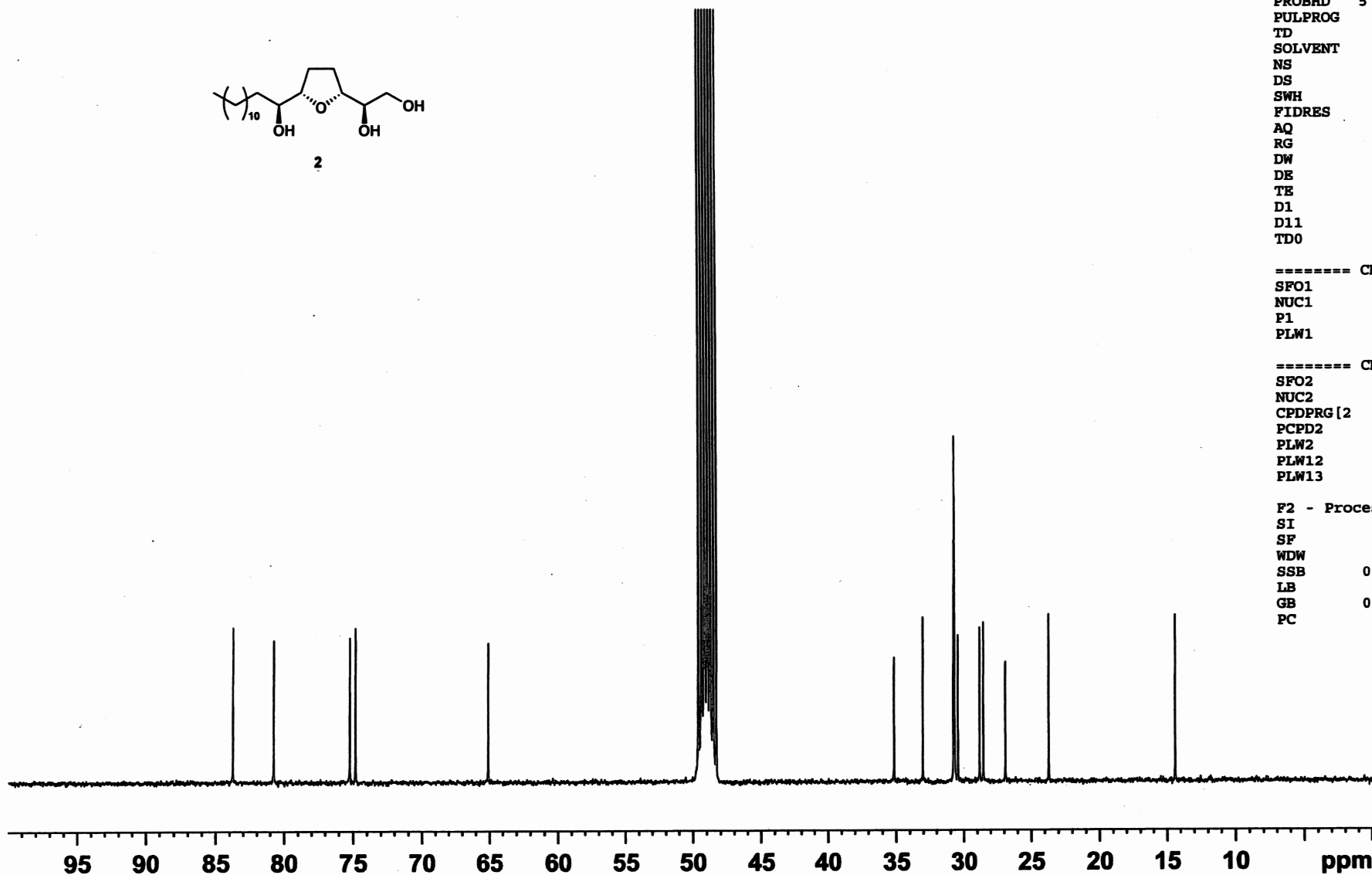
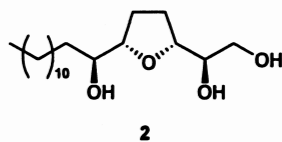
Current Data Parameters
 NAME compound.2
 EXPNO 3
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20170706
 Time_ 9.58
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT MeOD
 NS 256
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 104.97
 DW 62.400 usec
 DE 6.50 usec
 TE 300.2 K
 D1 1.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 SFO1 400.1824713 MHz
 NUC1 1H
 P1 10.00 usec
 PLW1 16.50000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1800095 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00





Current Data Parameters
 NAME compound.2
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20170706
 Time 3.23
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zgpg30
 TD 65536
 SOLVENT MeOD
 NS 6000
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631488 sec
 RG 206.25
 DW 20.800 usec
 DE 6.50 usec
 TE 299.9 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

----- CHANNEL f1 -----
 SFO1 100.6354031 MHz
 NUC1 13C
 P1 10.00 usec
 PLW1 63.50000000 W

----- CHANNEL f2 -----
 SFO2 400.1816007 MHz
 NUC2 1H
 CPDPRG[2] waltz16
 PCPD2 90.00 usec
 PLW2 16.50000000 W
 PLW12 0.20370001 W
 PLW13 0.16500001 W

F2 - Processing parameters
 SI 32768
 SF 100.6252001 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40