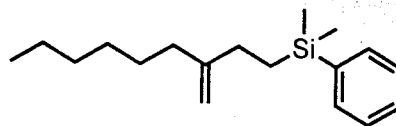
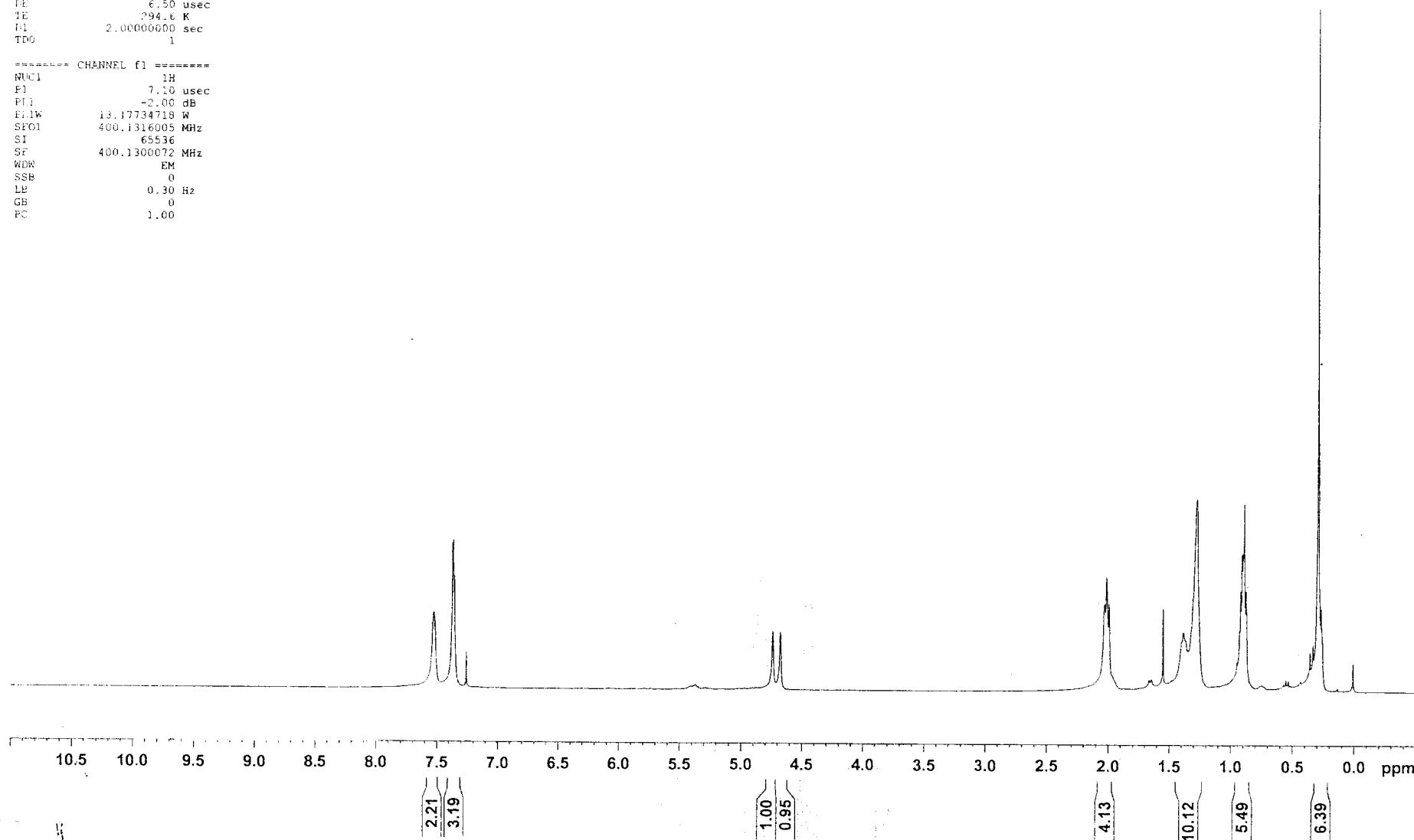


NAME 12_156 Ph t7
EXPNO 1
PROCNO 1
Date_ 20100407
Time 18.23
INSTRUM spect
PROBHD 5 mm PABBJ 1H/
PULPROG zg
TD 65536
SOLVENT CDCl3
NS 2
DS 0
SWH 10000.000 Hz
FIDRES 0.192588 Hz
AQ 3.2768500 sec
RG 25.4
PR 50.000 usec
PE 6.50 usec
TE 294.6 K
RL 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
F1LW 13.17734718 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300072 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



Me₂PhSi ~~~~ n-hex



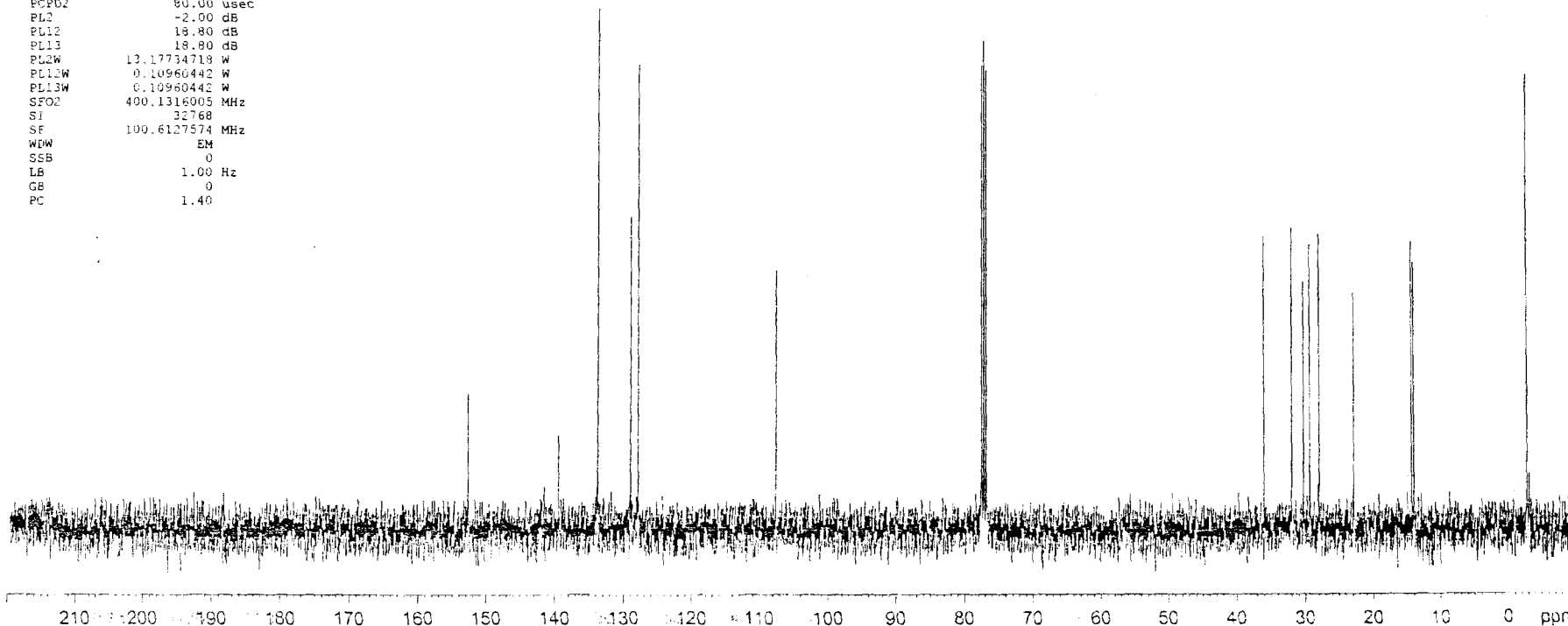
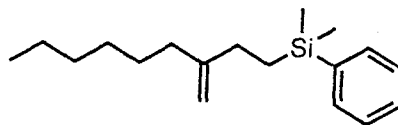


NAME 12_156 Ph t10
EXPNO 2
PROCNO 1
Date_ 20100407
Time 18.19
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 17
DS 4
SWH 24039.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 294.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 14.50 usec
PL1 -4.00 dB
PL1W 99.22689819 W
SFO1 100.6228298 MHz

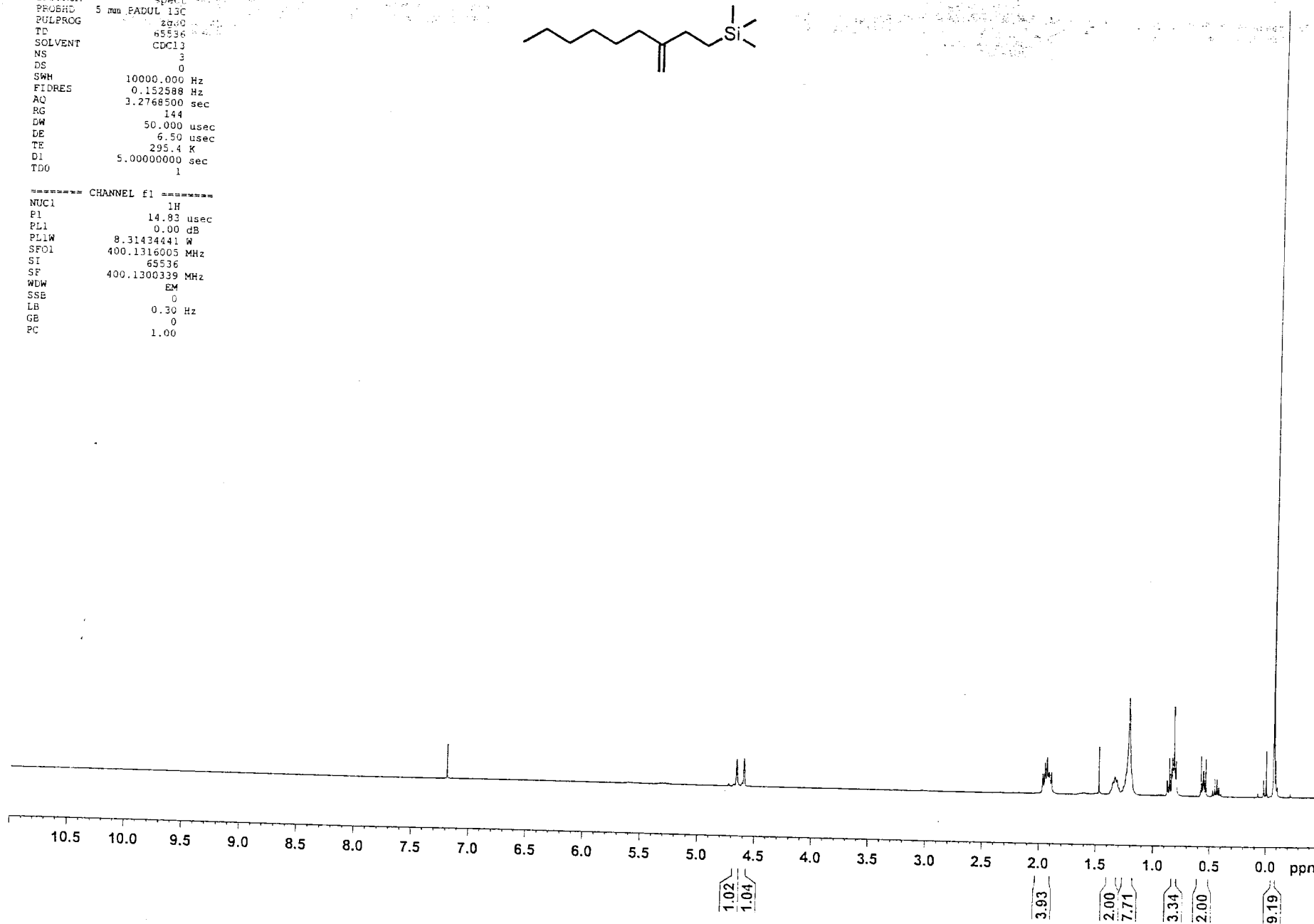
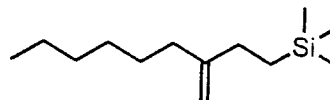
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -2.00 dB
PL12 18.80 dB
PL13 18.80 dB
PL2W 13.17734718 W
PL12W 0.10960442 W
PL13W 0.10960442 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127574 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

152.66
139.42
133.71
128.98
127.88
107.51
77.48
77.16
76.84
35.97
31.93
30.23
29.29
27.91
22.79
14.27
13.91
-2.97



NAME 12_142 t11 pdt
EXPNO 1
PROCNO 1
Date_ 20100310
Time 13.24
INSTRUM spect
PROBHD 5 mm PABUL 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 3
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 144
DM 50.000 usec
DE 6.50 usec
TE 295.4 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.83 usec
PL1 0.00 dB
PL1W 8.31434441 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300339 MHz
WDW EM
SSE 0
LB 0.30 Hz
GB 0
PC 1.00



12-142 t11 pdt. 7MS n-hex.



NAME 12_142 t11 pdr
EXPNO 2
PROCNO 1
Date_ 20100310
Time_ 13.27
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 36
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 296.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.68 usec
PL1 -0.60 dB
PL1W 41.24164963 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 0.00 dB
PL12 15.66 dB
PL13 15.92 dB
PL2W 8.31434441 W
PL12W 0.22585411 W
PL13W 0.21272963 W
SFO2 400.1316005 MHz
S1 32768
SF 100.6127534 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

153.00

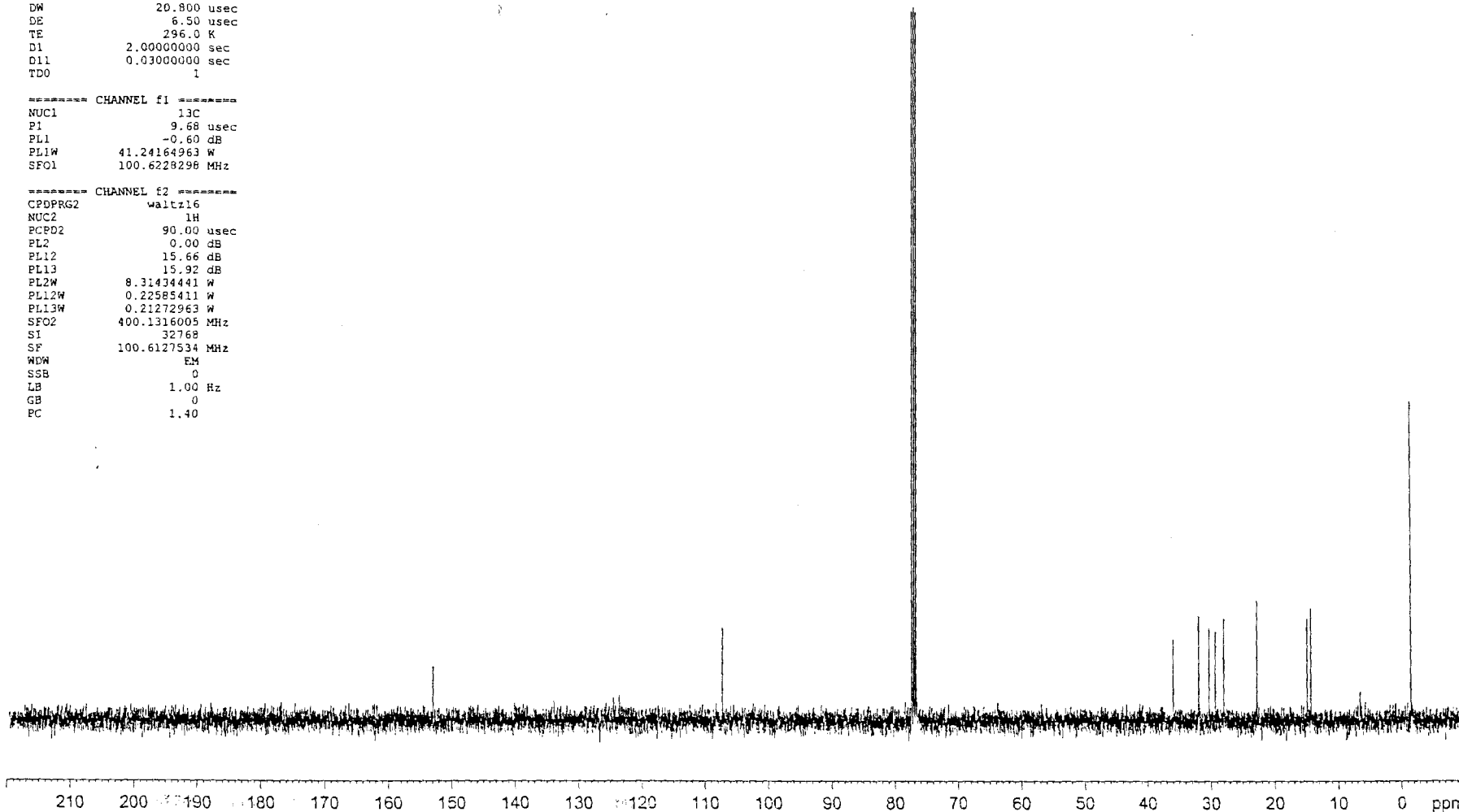
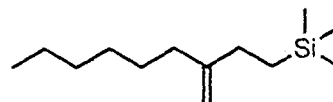
107.34

77.48
77.16
76.84

35.99
31.96
30.32
29.33
27.97
22.81

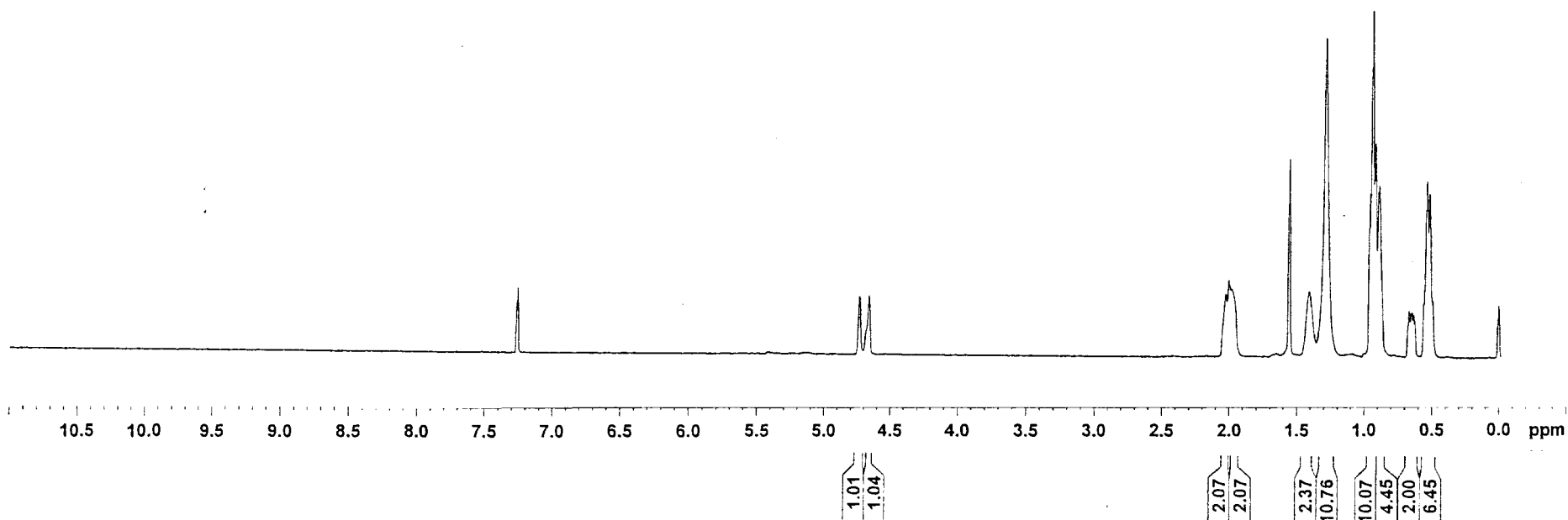
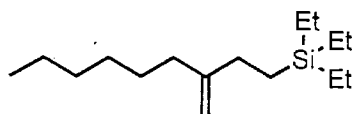
14.87
14.27

-1.60



NAME hls-2-TES t11,12
EXPNO 11
PROCNO 1
Date_ 20100903
Time 13.22
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 3
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 4
DW 60.800 usec
DE 6.50 usec
TE 297.8 K
D1 1.00000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SFO1 400.1924713 MHz
SI 32768
SF 400.1900147 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



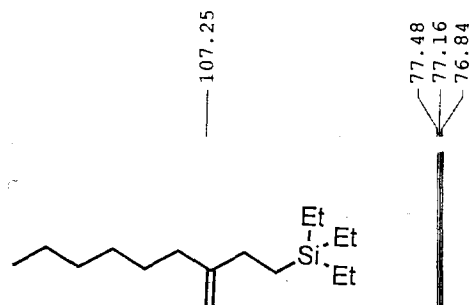
EtSi(CH₃)₃-n-hex



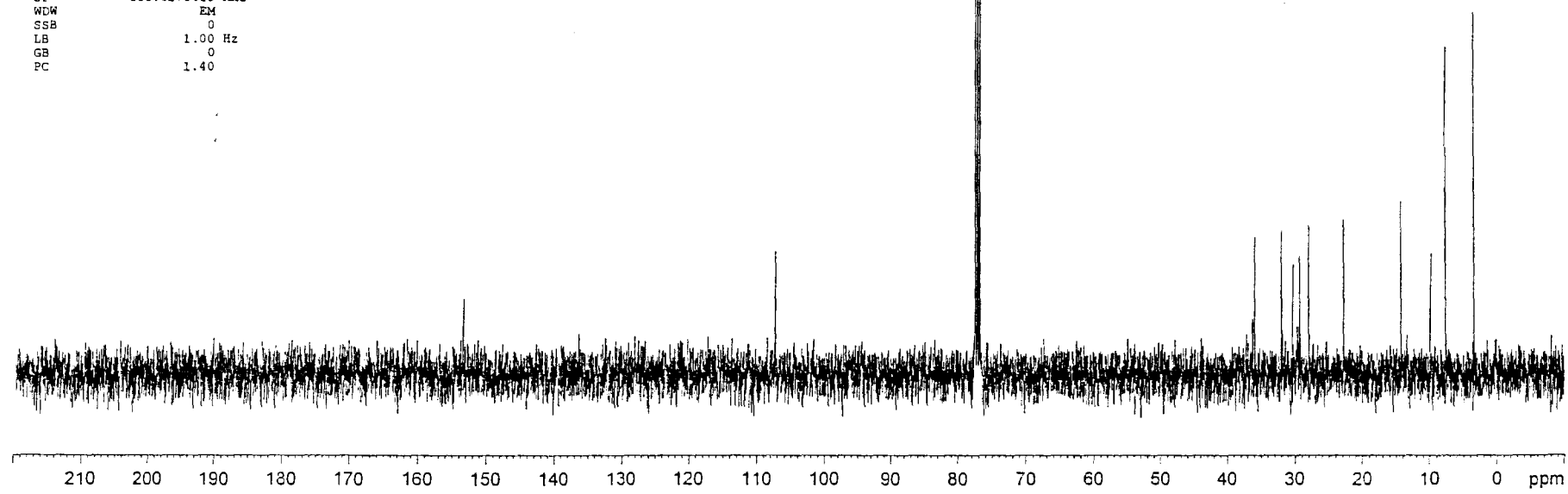
NAME his-2-TES t11.12
EXNO 22
PROCNO 1
Date_ 20100903
Time 13.13
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 48
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278419 MHz
WDM EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



35.91
31.95
30.25
29.31
27.98
22.80
14.25
9.76
7.60
3.40

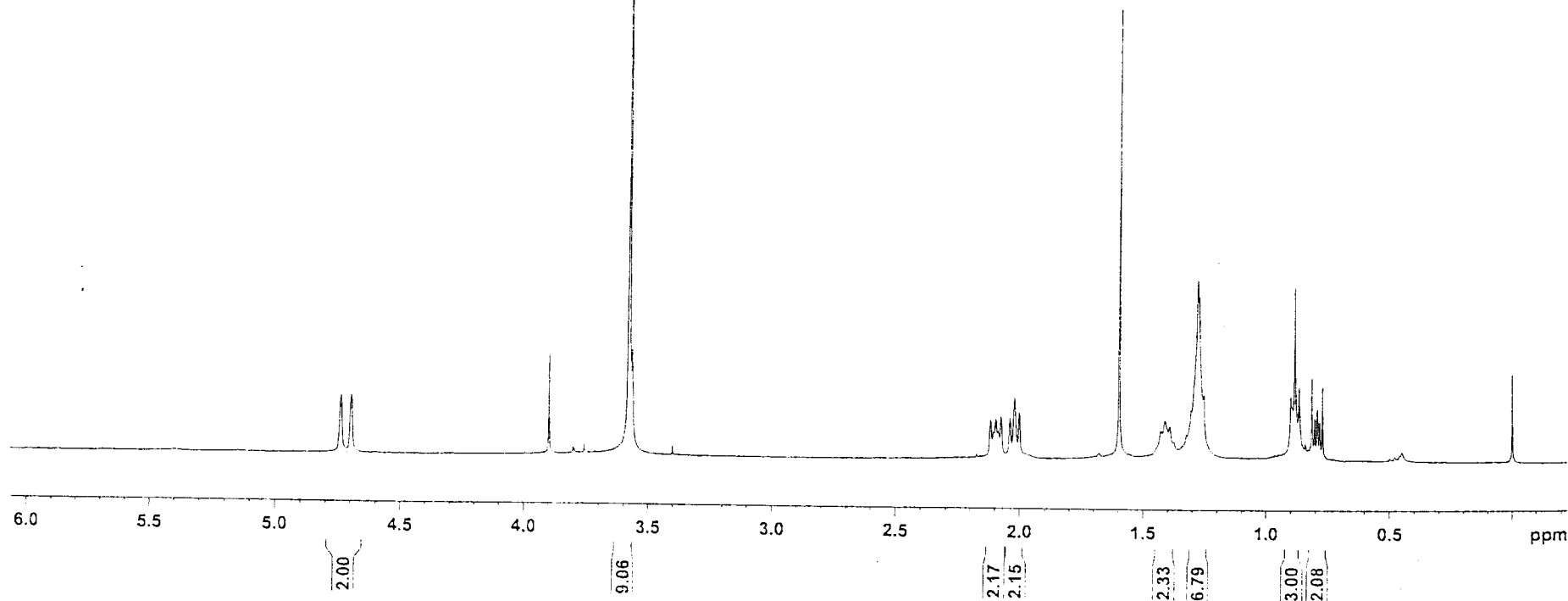
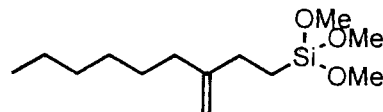


EtSi(CH₃)₃ n-hex

NAME 12_196 OMe c26
EXPNO 11
PROCNO 1
Date_ 2010040
Time 18.55
INSTRUM spect
PROBHD 5 mm PAB61 1H/
PULPROG zg
TE 65536
SOLVENT CDCl3
NS 3
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 64
DW 50.000 usec
DE 6.50 usec
TE 294.6 K
D1 10.00000000 sec
TD0 1

d1 = 10

----- CHANNEL f1 -----
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SF01 400.1316005 MHz
SI 65536
SF 400.1300033 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



(MeO)₃Si-CH₂-CH=CH-CH₂-CH₂-CH₂-CH₃



```

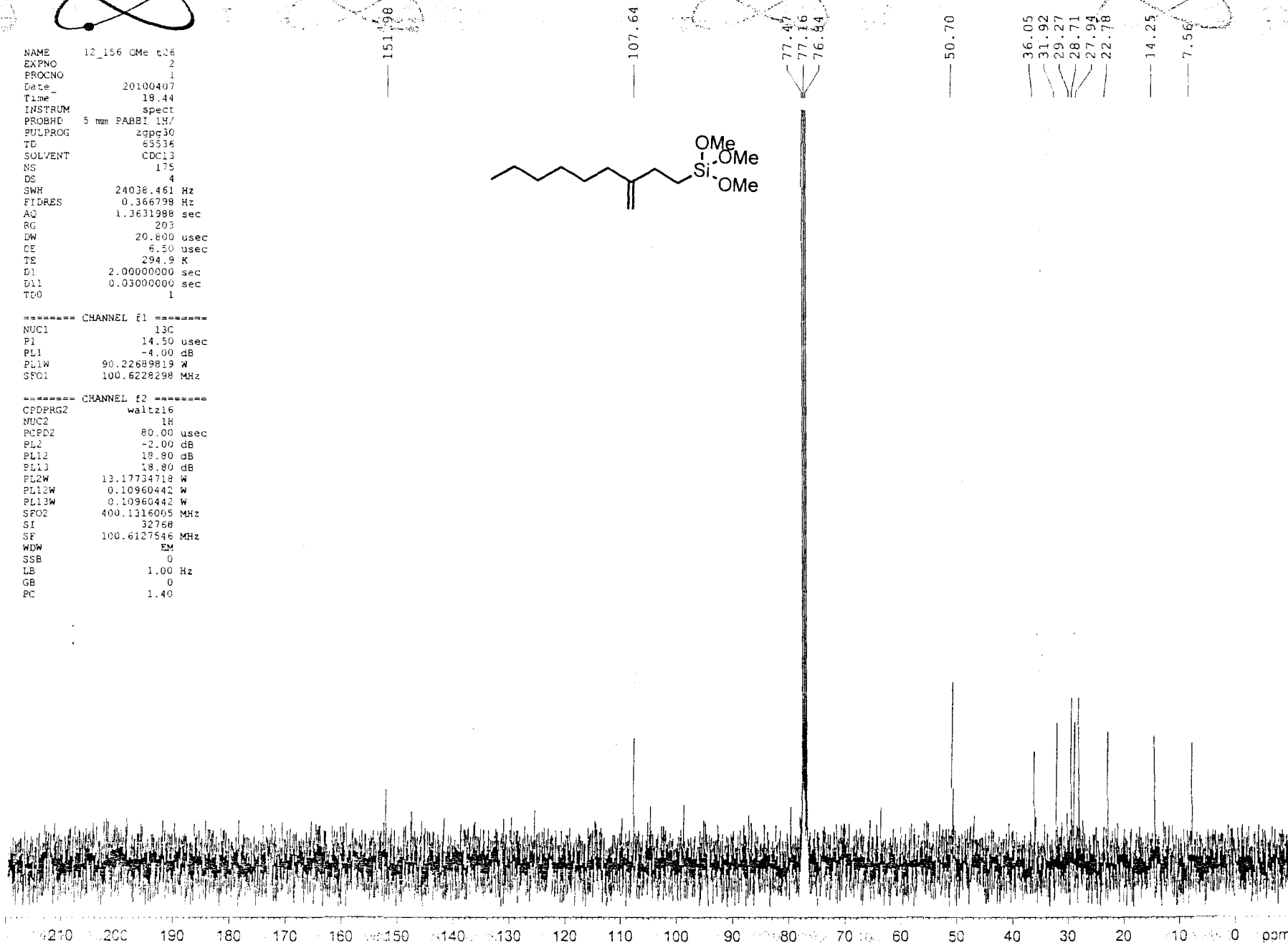
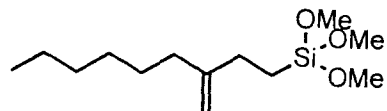
NAME      12_156 OMe t06
EXPNO     2
PROCNO    1
Date_     20100407
Time      18.44
INSTRUM   spect
PROBHD    5 mm PABBI 1H/
PULPROG   zgpg30
TD        65536
SOLVENT   CDCl3
NS        175
DS        4
SWH       24038.461 Hz
FIDRES    0.366798 Hz
AQ        1.3631988 sec
RG        203
DW        20.800 usec
DE        6.50 usec
TE        294.9 K
D1        2.00000000 sec
D11       0.03000000 sec
T0        1
  
```

```

===== CHANNEL f1 =====
NUC1       13C
P1         14.50 usec
PL1        -4.00 dB
PL1W       90.22689819 W
SFO1       100.6228298 MHz
  
```

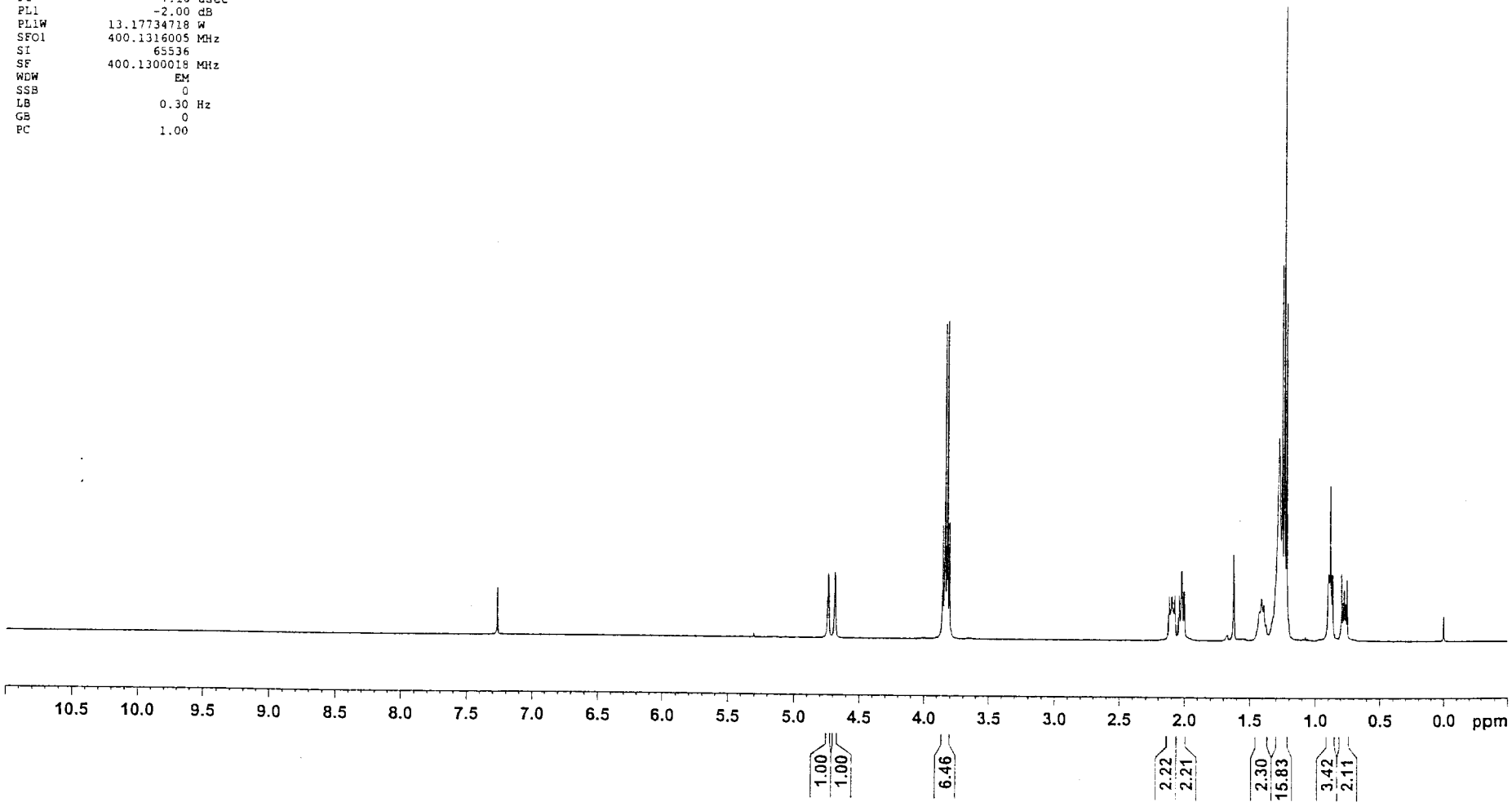
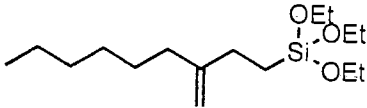
```

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -2.00 dB
PL12       19.90 dB
PL13       18.80 dB
PL2W       13.17734718 W
PL12W      0.10960442 W
PL13W      0.10960442 W
SFO2       400.1316005 MHz
SI         32768
SF         100.6127546 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
  
```



NAME hls-i-248-7a-t61
EXPNO 1
PROCNO 1
Date_ 20100621
Time_ 21.17
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 1
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 45.2
DW 50.000 usec
DE 6.50 usec
TE 294.3 K
D1 5.00000000 sec
TD0 1

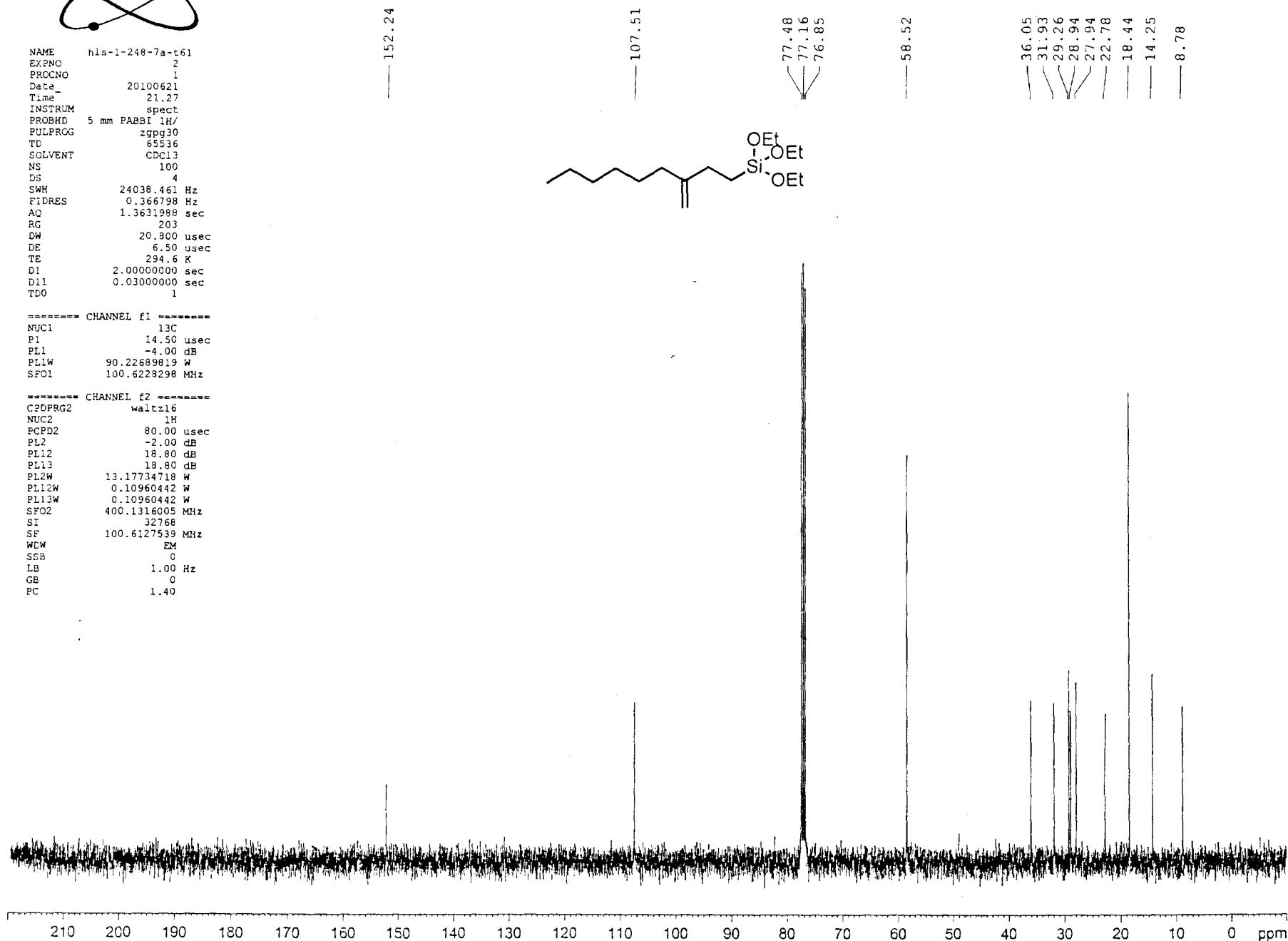
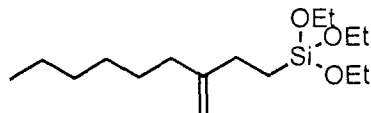
===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300018 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



```

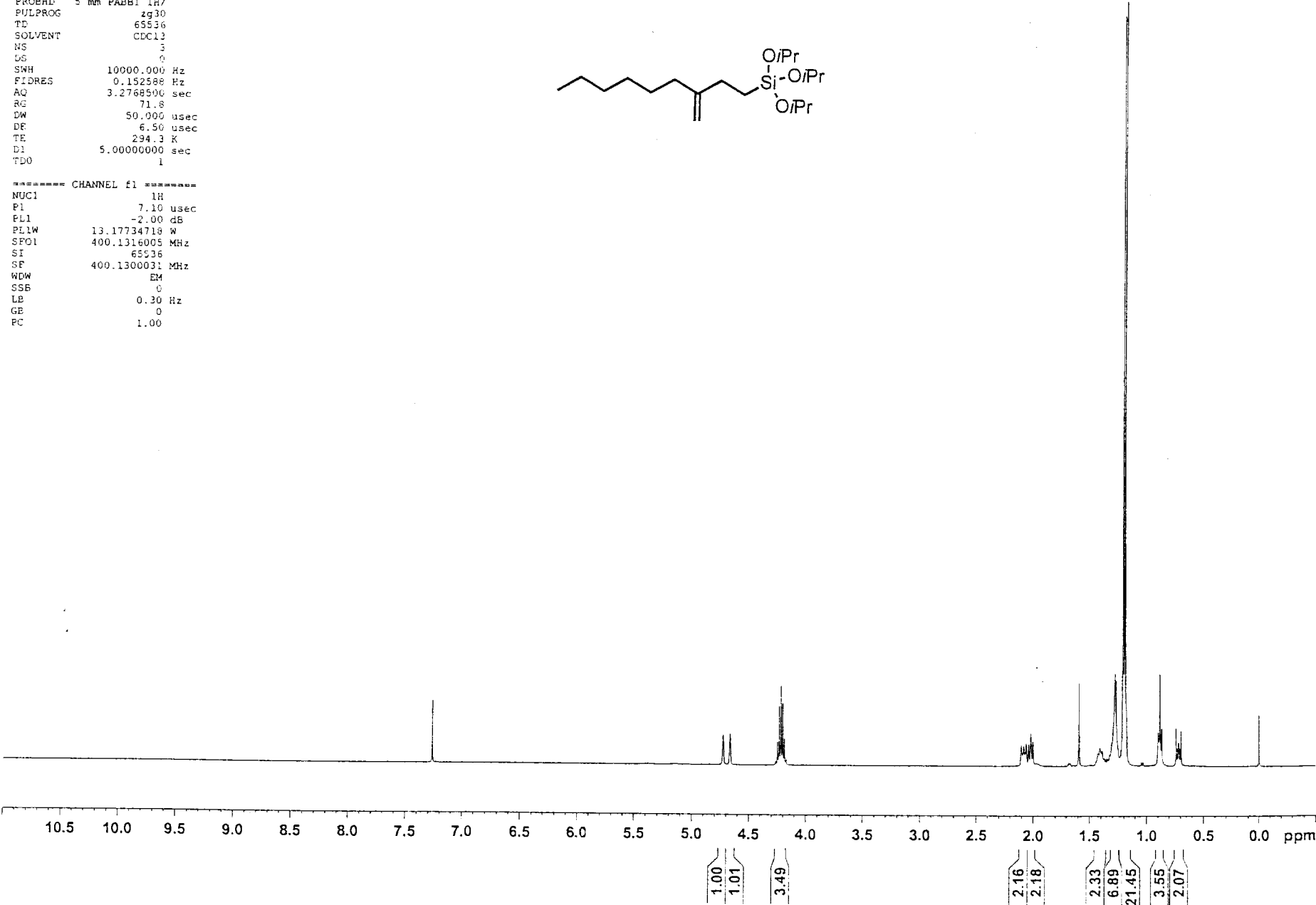
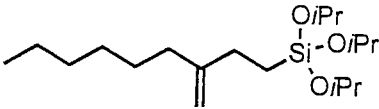
***** CHANNEL f2 *****
C2DPRG2          wait:16
NUC2              1M
PCPD2            80.00 usec
PL2              -2.00 dB
PL12             18.80 dB
PL13             18.80 dB
PL2W             13.17734718 W
PL12W            0.10960442 W
PL13W            0.10960442 W
SFO2             400.1316005 MHz
SI               32768
SF               100.6127539 MHz
WDW              EM
SSB              0
LB               1.00 Hz
GB               0
PC               1.40

```



NAME hls-2-3-1-t25
EXPNO 1
PROCNO 1
Date_ 20100806
Time 20.32
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 3
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 71.8
DW 50.000 usec
DE 6.50 usec
TE 294.3 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300031 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME his-2-3-1-t25
EXPNO 2
PROCNO 1
Date_ 20100806
Time 18.19
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TE 65536
SOLVENT CDCl3
NS 40
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 294.7 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 14.50 usec
PL1 -4.00 dB
PL1W 90.22689819 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -2.00 dB
PL12 18.80 dB
PL13 18.80 dB
PL2W 13.17734718 W
PL12W 0.10960442 W
PL13W 0.10960442 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127531 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

152.61

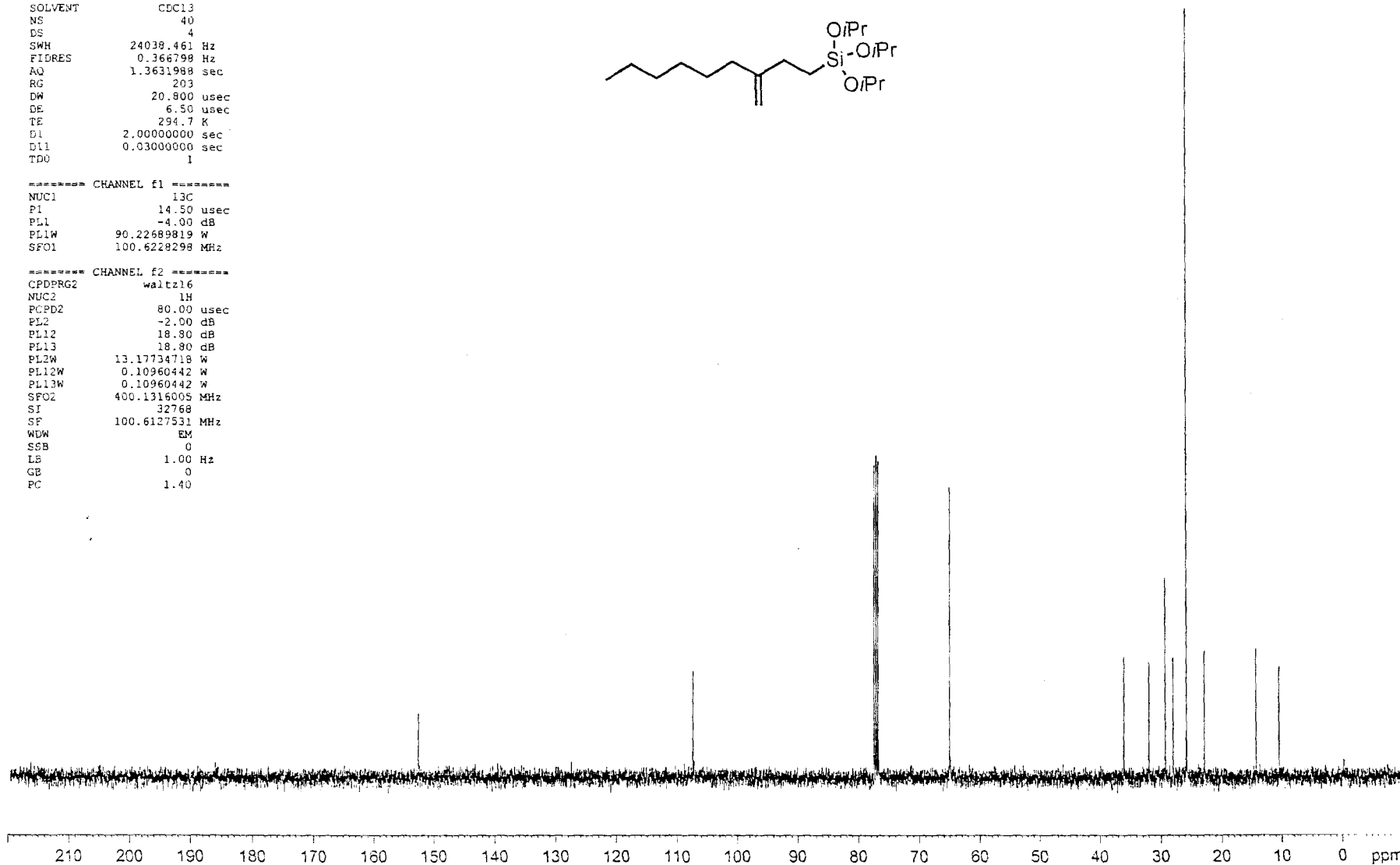
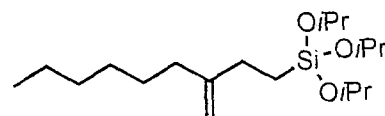
107.35

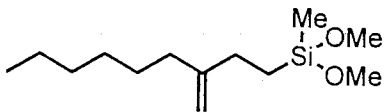
77.48
77.16
76.84

65.03

36.01
31.94
29.25
27.95
25.70
22.79

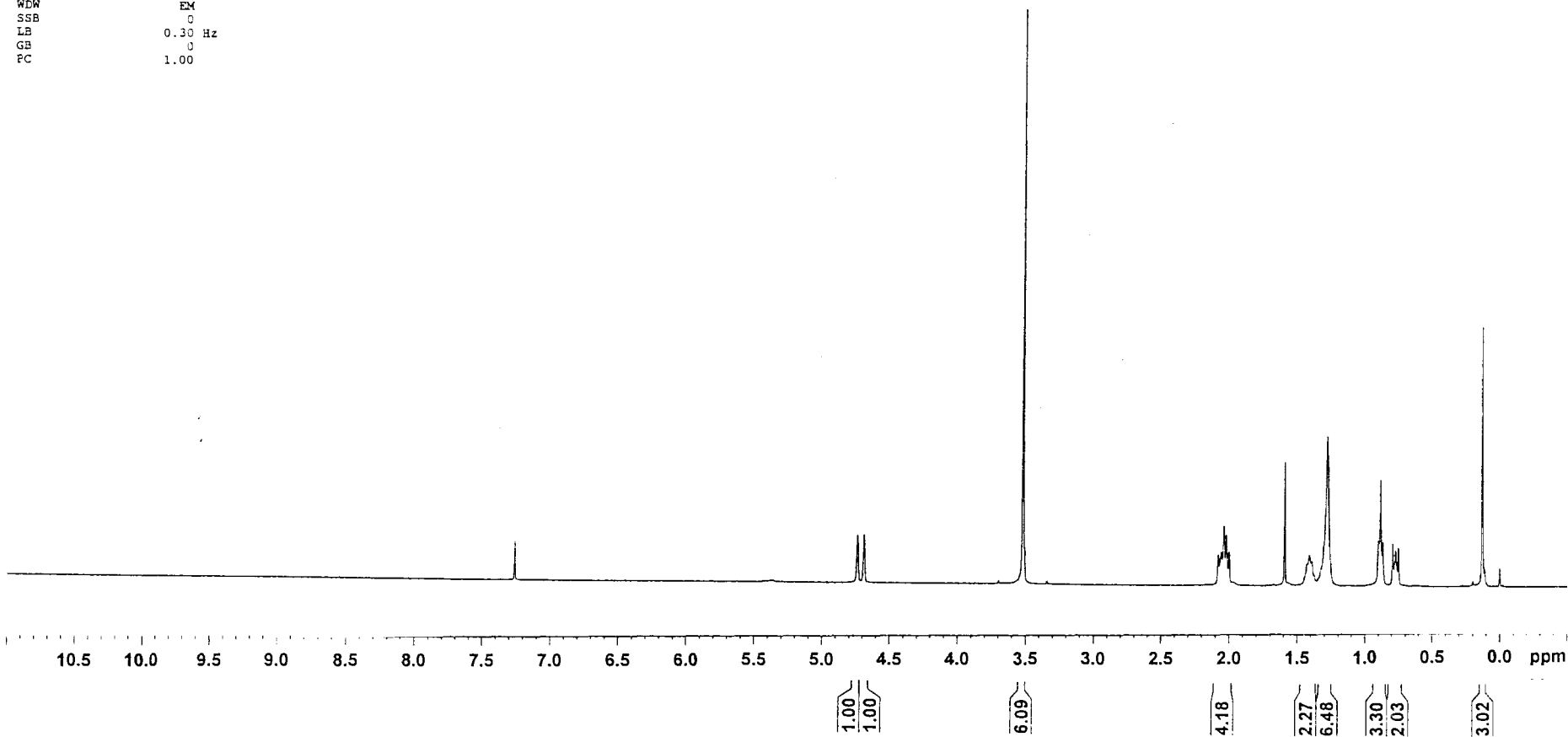
14.25
10.42





NAME his-2-7-5-c3233
EXPNO 1
PROCNO 1
Date_ 20100826
Time 14.06
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 11
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846397 sec
RG 71.8
DW 60.800 usec
DE 6.50 usec
TE 300.7 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SFO1 400.1924713 MHz
SI 32768
SF 400.1900132 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME hls-2-7-5-t3233
EXPNO 2
PROCNO 1
Date_ 20100826
Time 14.13
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 60
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 181
DW 20.800 usec
DE 6.50 usec
TE 300.6 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
S1 32768
SF 100.6278412 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

152.13

107.68

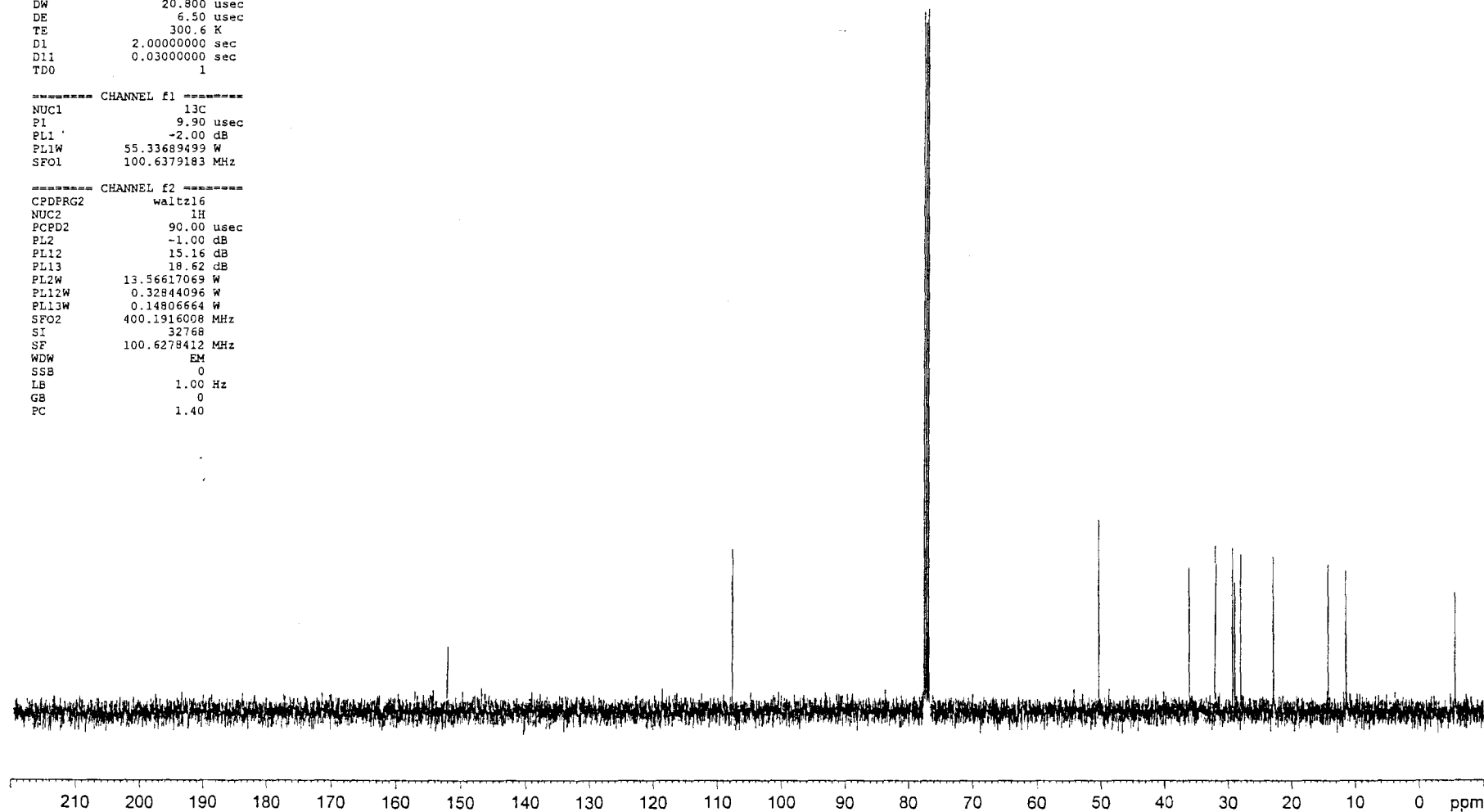
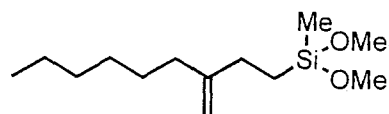
77.48
77.16
76.85

50.34

36.04
31.93
29.29
28.92
27.98
22.79

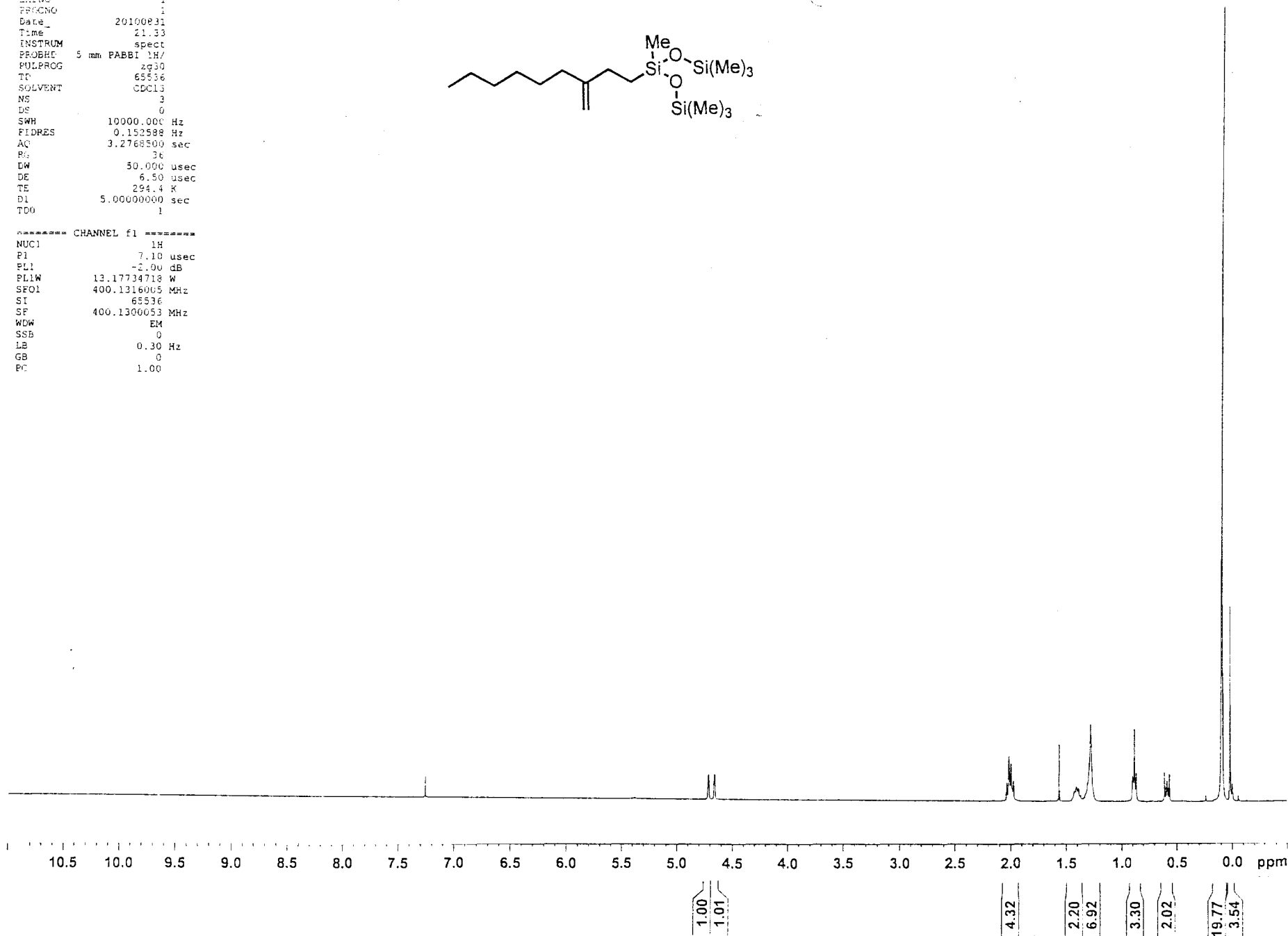
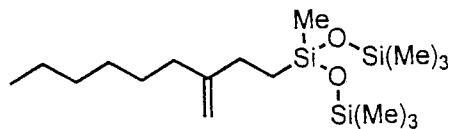
14.24
11.39

5.67



NAME his-2-11-4-t11
EXNO 1
PROCNO 1
Date 20100831
Time 21.33
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 3
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 36
LW 50.000 usec
DE 6.50 usec
TE 294.4 K
D1 5.0000000 sec
TDO 1

***** CHANNEL f1 *****
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300053 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME hls-2-11-4-r11
 EXPNO 2
 PROCNO 1
 Date_ 20100831
 Time_ 21.39
 INSTRUM spect
 PROBHD 5 mm PABBI LH/
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 56
 DS 4
 SWH 24038.461 Hz
 FIDRES 0.366798 Hz
 AQ 1.3631988 sec
 RG 203
 DW 20.800 usec
 DE 6.50 usec
 TE 294.6 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 13C
 P1 14.50 usec
 PL1 -4.00 dB
 PL1W 90.22689819 W
 SFO1 100.6228298 MHz

===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -2.00 dB
 PL12 18.80 dB
 PL13 18.80 dB
 PL2W 13.17734718 W
 PL12W 0.10960442 W
 PL13W 0.10960442 W
 SFO2 400.1316005 MHz
 SI 32768
 SF 100.6127531 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GE 0
 PC 1.40

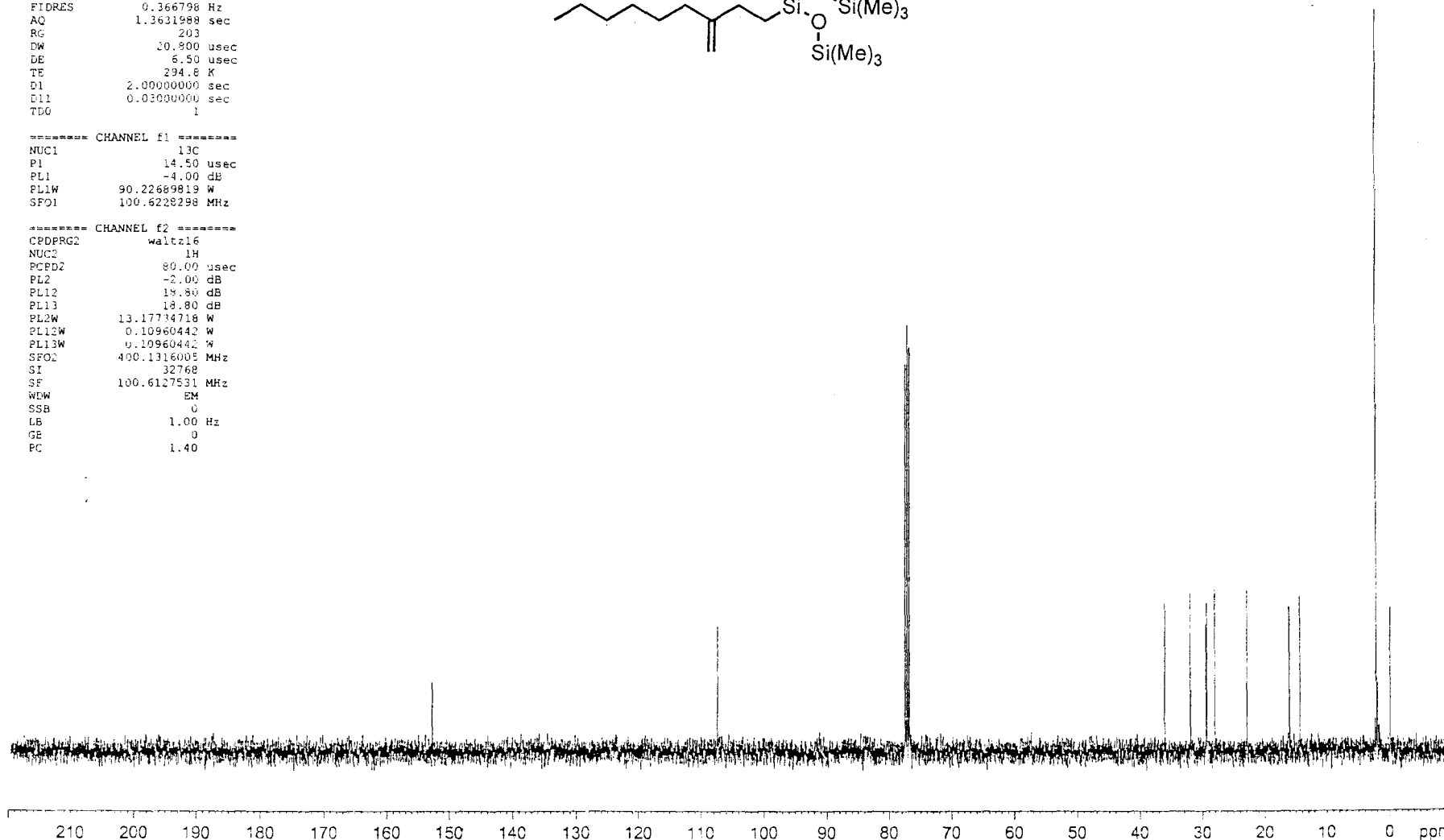
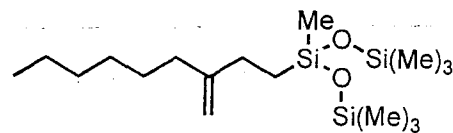
152.73

107.38

77.48
 77.16
 76.84

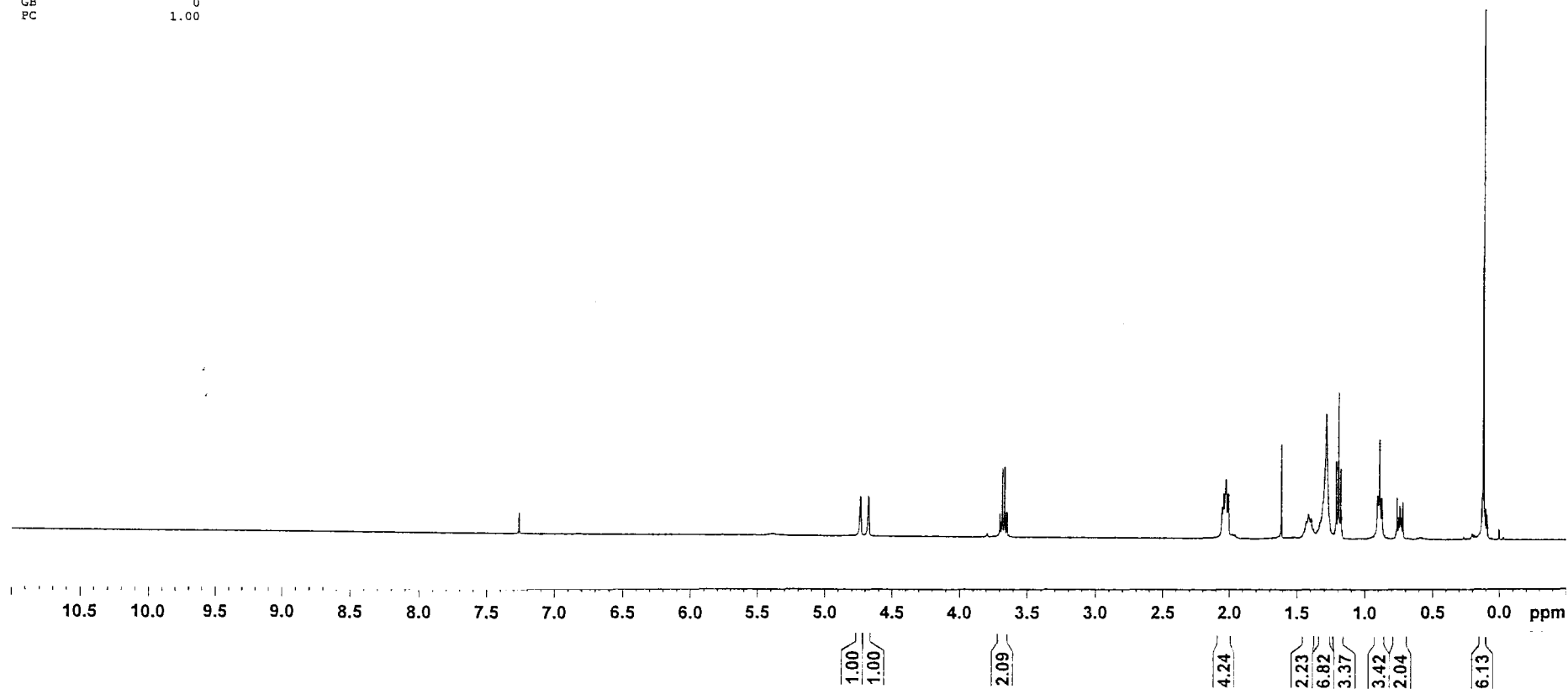
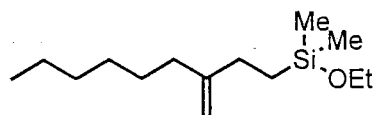
35.99
 31.96
 29.42
 29.28
 27.96
 22.80
 15.99
 14.27

2.01
 -0.21



NAME hls-2-7-4-t19
EXPNO 1
PROCNO 1
Date_ 20100826
Time 14.20
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 6
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 45.2
DW 60.800 usec
DE 6.50 usec
TE 300.1 K
D1 1.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SFO1 400.1924713 MHz
SI 32768
SF 400.1900133 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

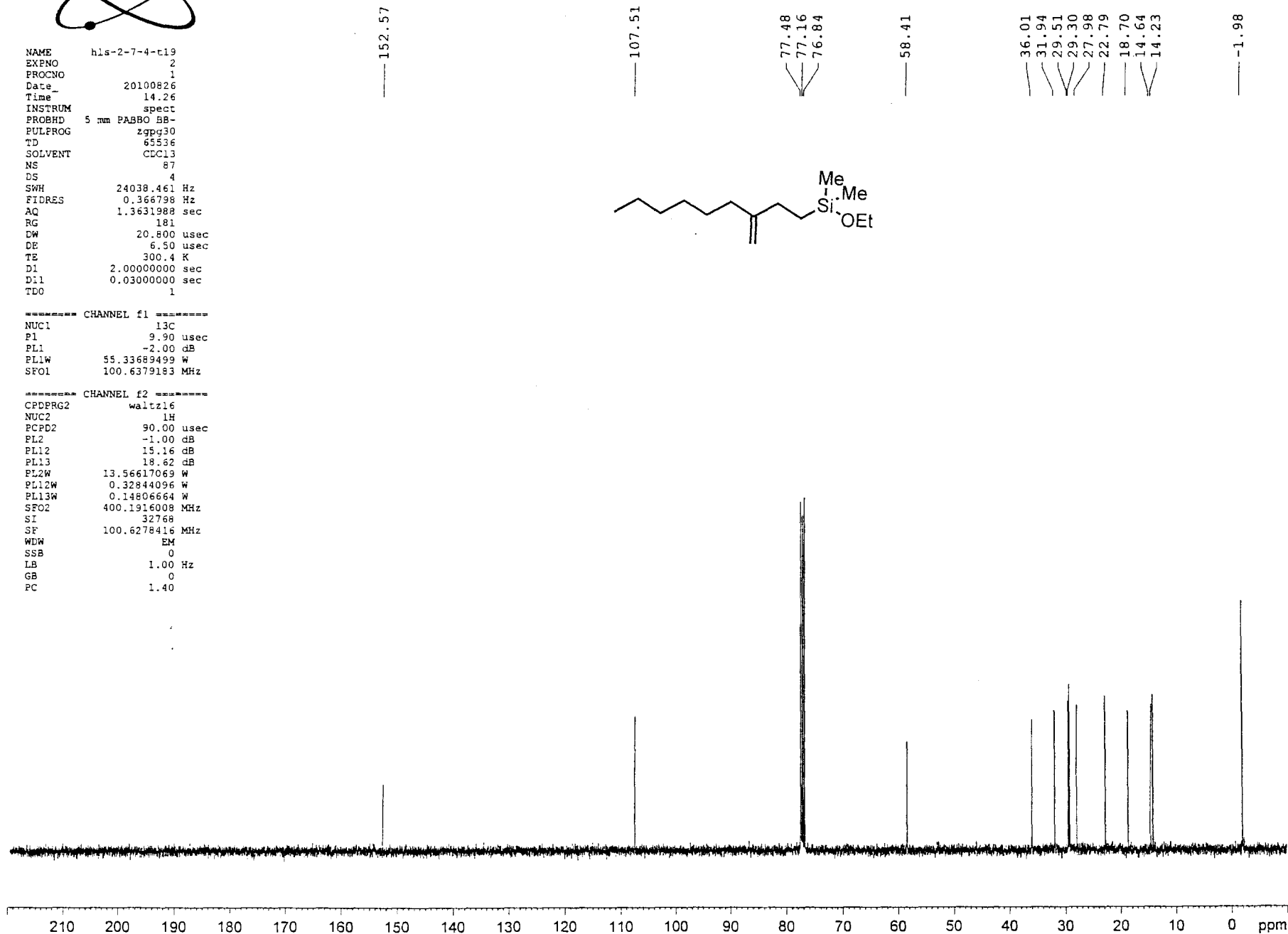
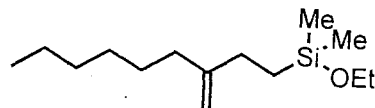




NAME hls-2-7-4-t19
EXNO 2
PROCNO 1
Date 20100826
Time 14.26
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 87
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 181
CW 20.800 usec
DE 6.50 usec
TE 300.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

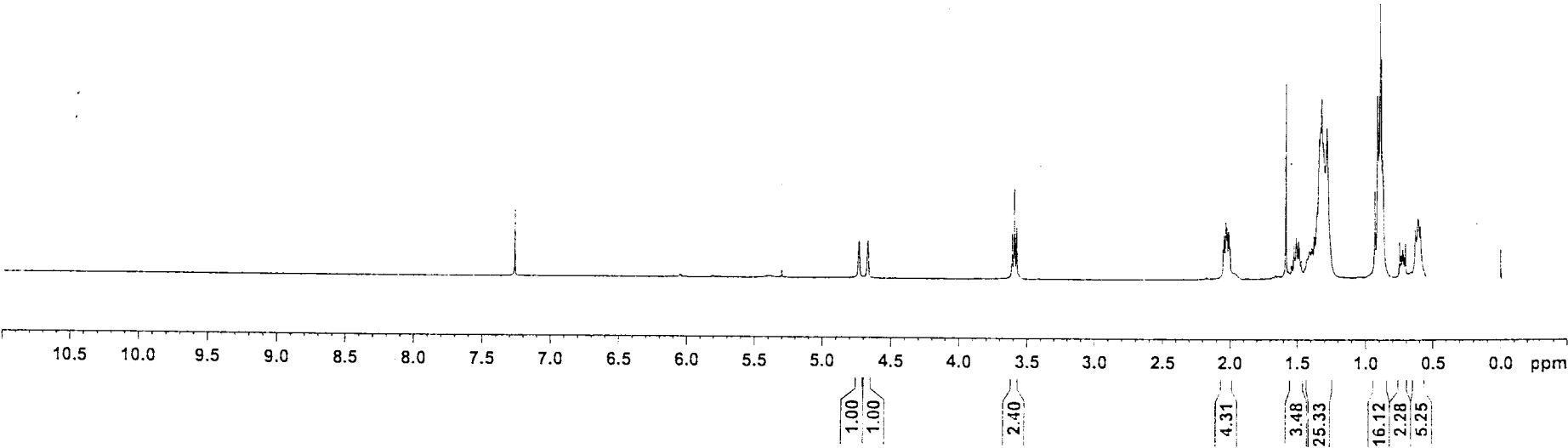
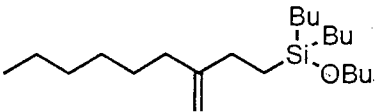
----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278416 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



NAME his-1-249-2-t16
EXPNO 1
PROCNO 1
Date_ 20100914
Time 18.19
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 6
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 64
DW 50.000 usec
DE 6.50 usec
TE 296.0 K
D1 5.00000000 sec
TDG 1

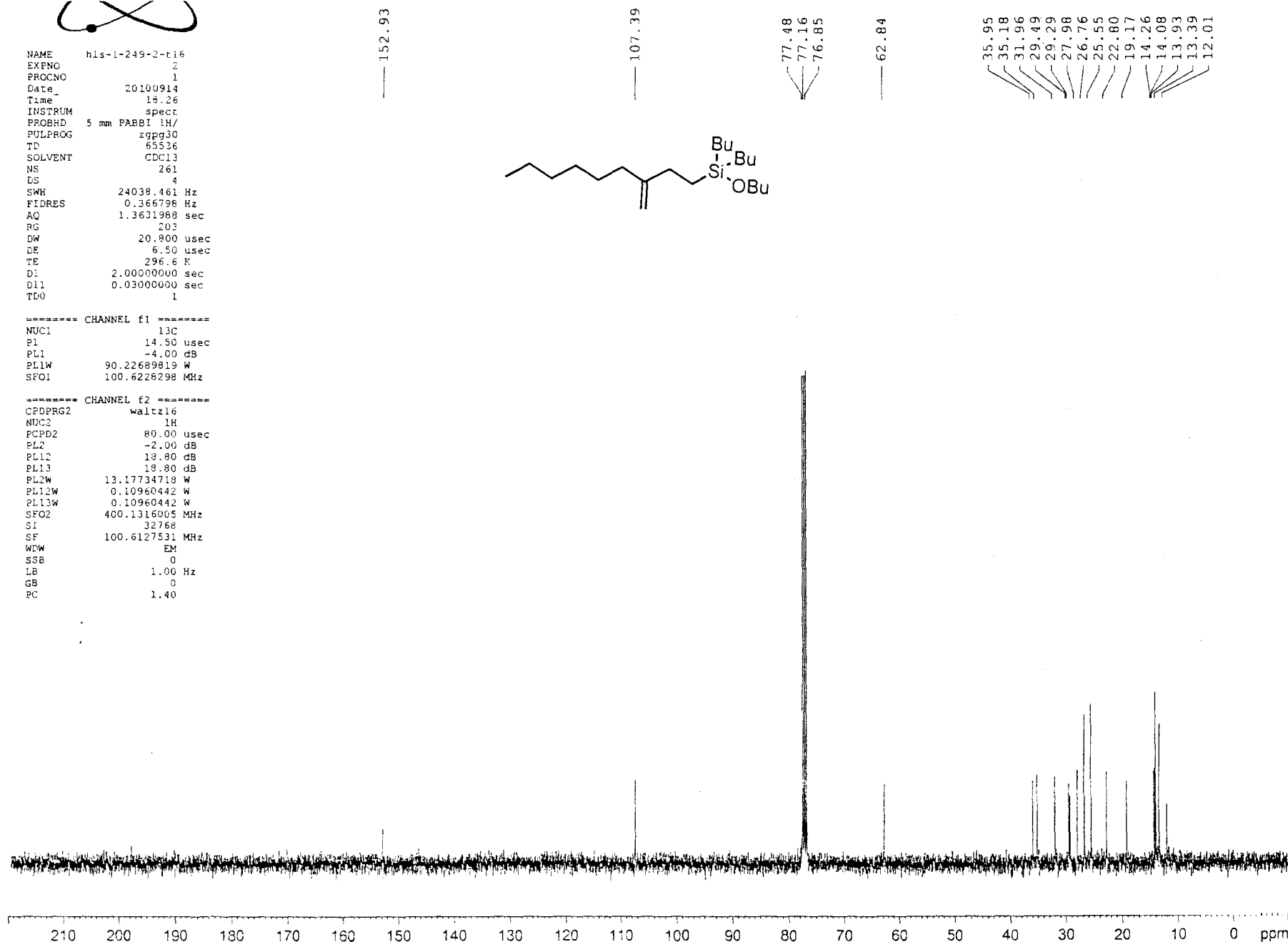
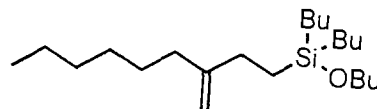
===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300050 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

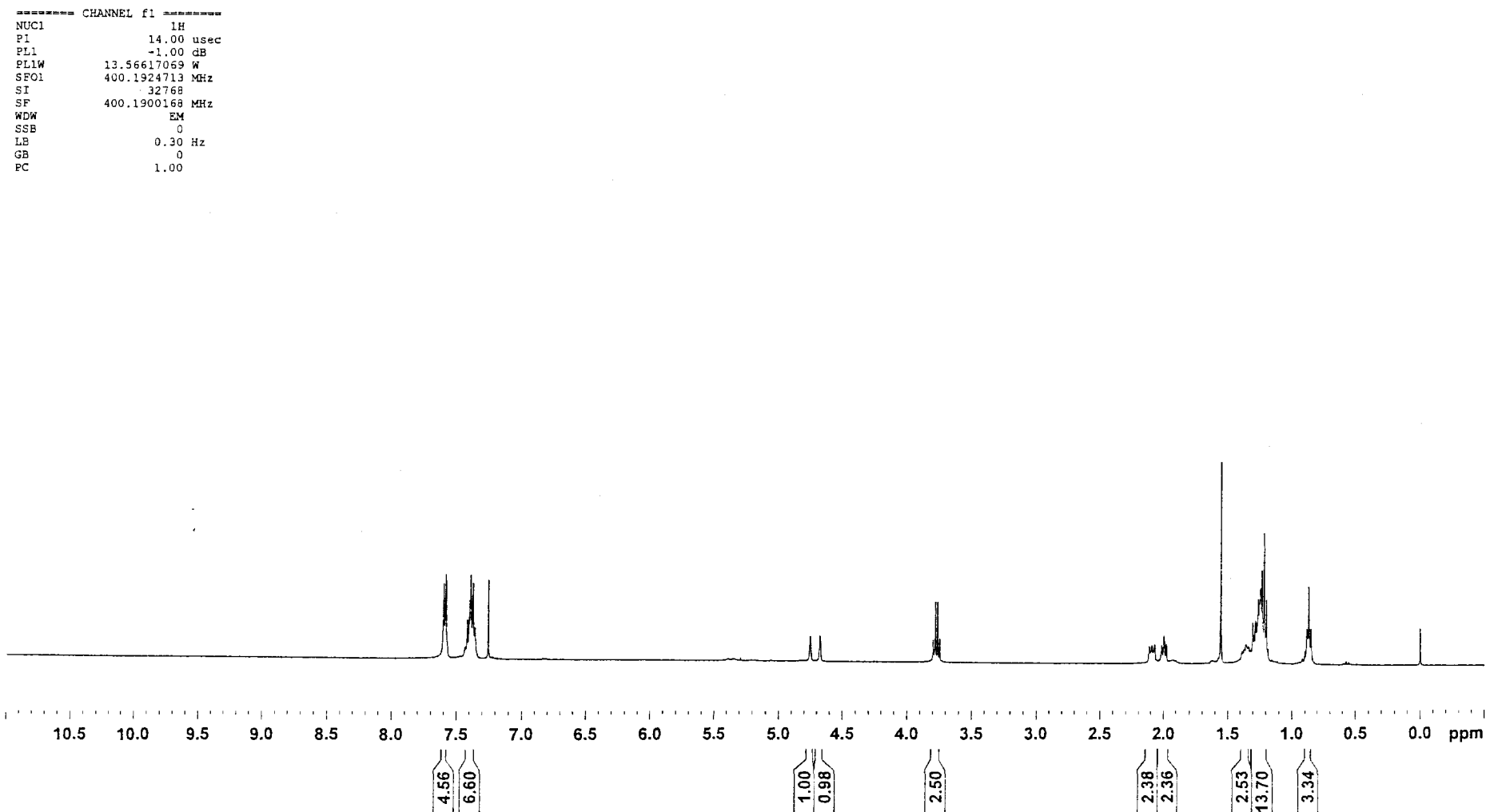
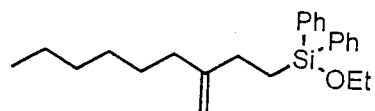


```

===== CHANNEL f2 =====
CPDPRG2          wait216
NUC2              1H
PCPD2            80.00 usec
PL2              -2.00 dB
PL1C             18.80 dB
PL13             18.80 dB
PL2W             13.17734718 W
PL12W            0.10960442 W
PL13W            0.10960442 W
SFO2             400.1316005 MHz
SI               32768
SF               100.6127531 MHz
WDW              EM
SSB              0
LB               1.00 Hz
GB               0
PC               1.40

```







NAME hls-2-20-1-t20
EXPNO 2
PROCNO 1
Date_ 20100926
Time 15.44
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 163
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 181
DW 20.800 usec
DE 6.50 usec
TE 298.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

152.45

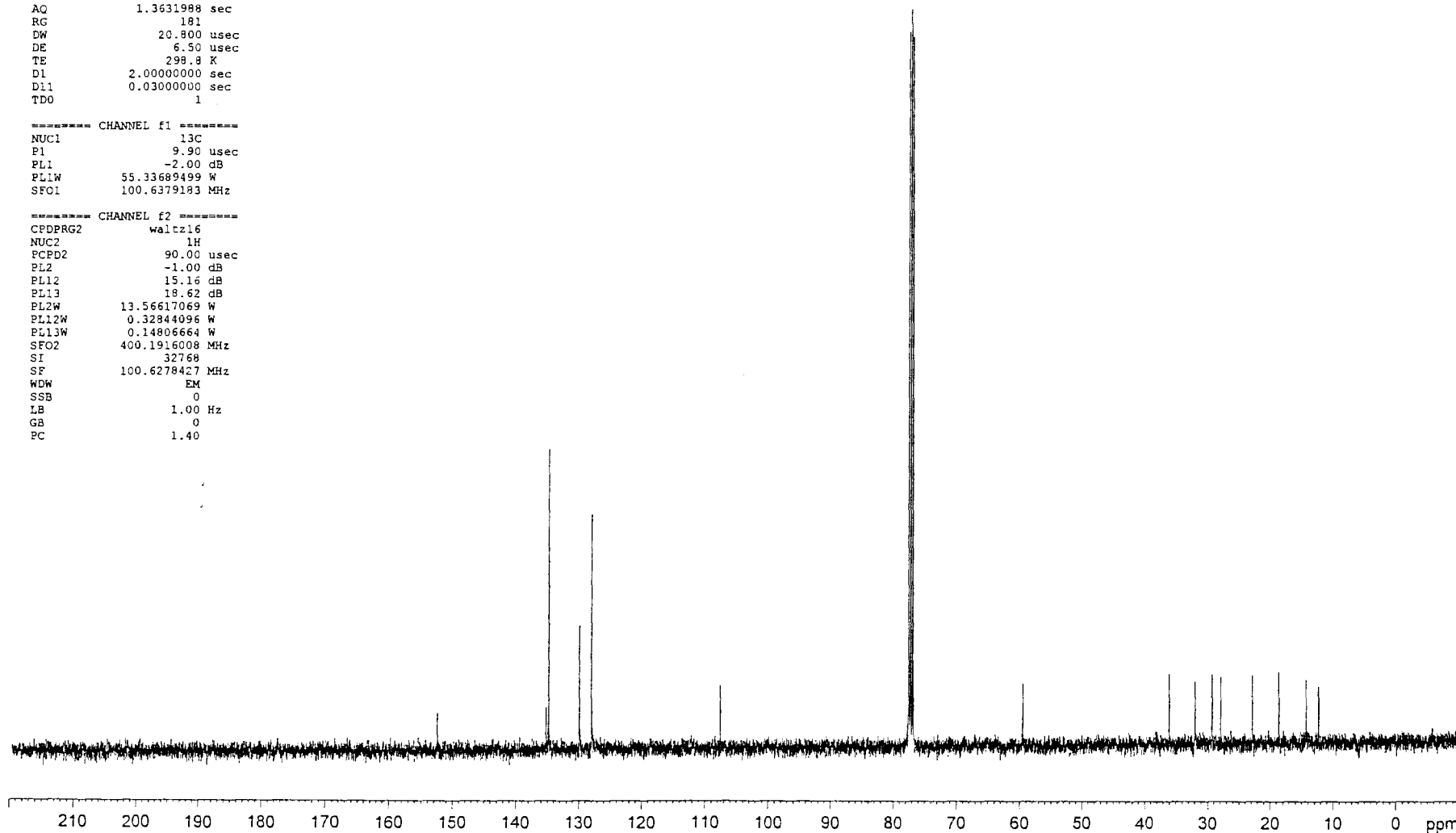
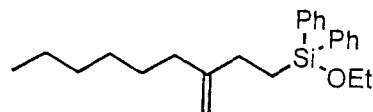
135.24
134.81
129.94
127.99
127.93

107.56

77.48
77.16
76.84

59.45

36.00
31.90
29.26
29.24
27.89
22.76
18.56
14.24
12.27



```

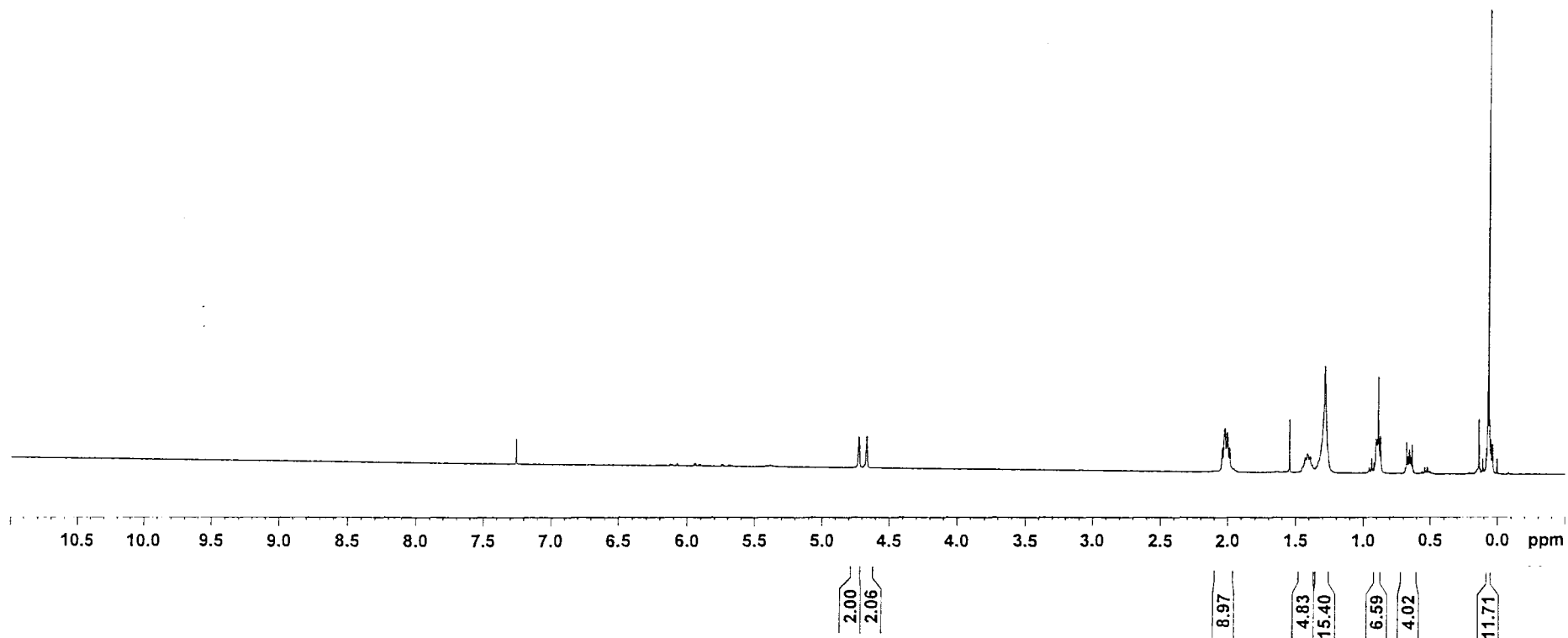
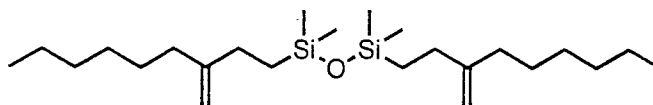
NAME      119-5224-1
EXPNO     1
PROCNO     1
Date_      20101006
Time       21.54
INSTRUM    spect
PROBHD     5 mm PABBO BB-
PULPROG    zg30
TD         65536
SOLVENT     CDCl3
NS         5
DS         1
SWH        8223.685 Hz
FIDRES     0.125483 Hz
AQ         3.9846387 sec
RG         40.3
DW         60.800 usec
DE         6.50 usec
TE         297.9 K
D1         5.00000000 sec
TD0        1

```

```

===== CHANNEL f1 =====
NUC1       1H
P1         14.00 usec
PL1        -1.00 dB
PL1W       13.56617069 W
SFO1       400.1924713 MHz
SI         32768
SF         400.1900156 MHz
WDW        EM
SSB        0
LB         0.30 Hz
GB         0
PC         1.00

```





```
NAME      his-2-21-2-t8
EXPNO     2
PROCNO    1
Date_     20101008
Time      15.24
INSTRUM    spect
PROBHD     5 mm PABBI 1H/
PULPROG    zgpg30
TD         65536
SOLVENT    CDCl3
NS         802
DS         4
SWH        24039.461 Hz
FIDRES     0.366798 Hz
AQ         1.3631988 sec
RG         203
DW         20.800 usec
DE         6.50 usec
TE         294.7 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
```

```
===== CHANNEL f1 =====
NUC1       13C
P1         14.50 usec
PL1        -4.00 dB
PL1W       90.22689819 W
SFO1       100.6228298 MHz
```

```
===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      80.00 usec
PL2        -2.00 dB
PL12       18.80 dB
PL13       18.80 dB
PL2W       13.17734718 W
PL12W      0.10960442 W
PL13W      0.10960442 W
SFO2       400.1316005 MHz
SI         32768
SF         100.6127538 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```

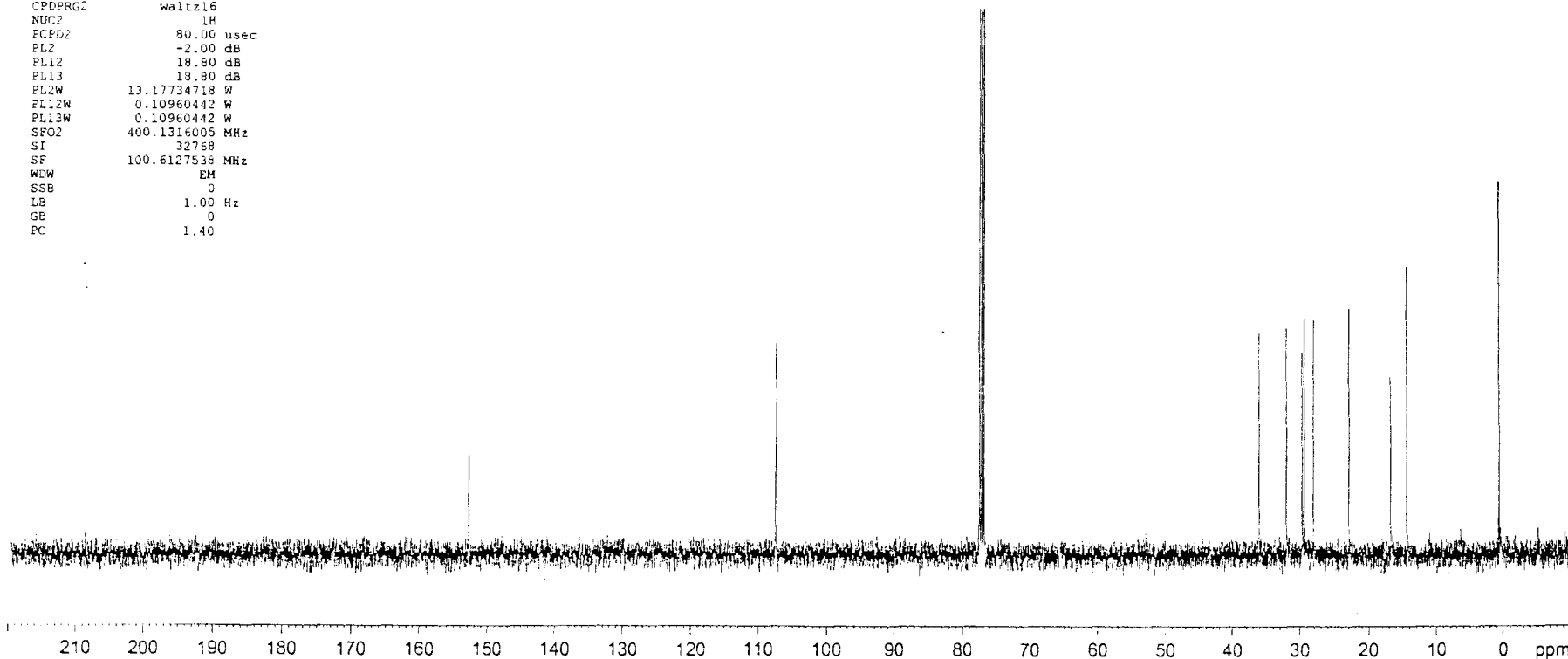
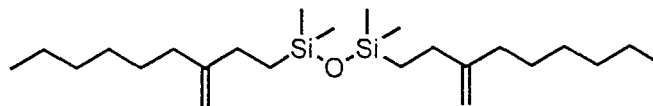
152.76

107.40

77.48
77.16
76.84

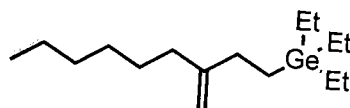
36.00
31.96
29.64
29.31
27.97
22.81
16.64
14.26

0.45

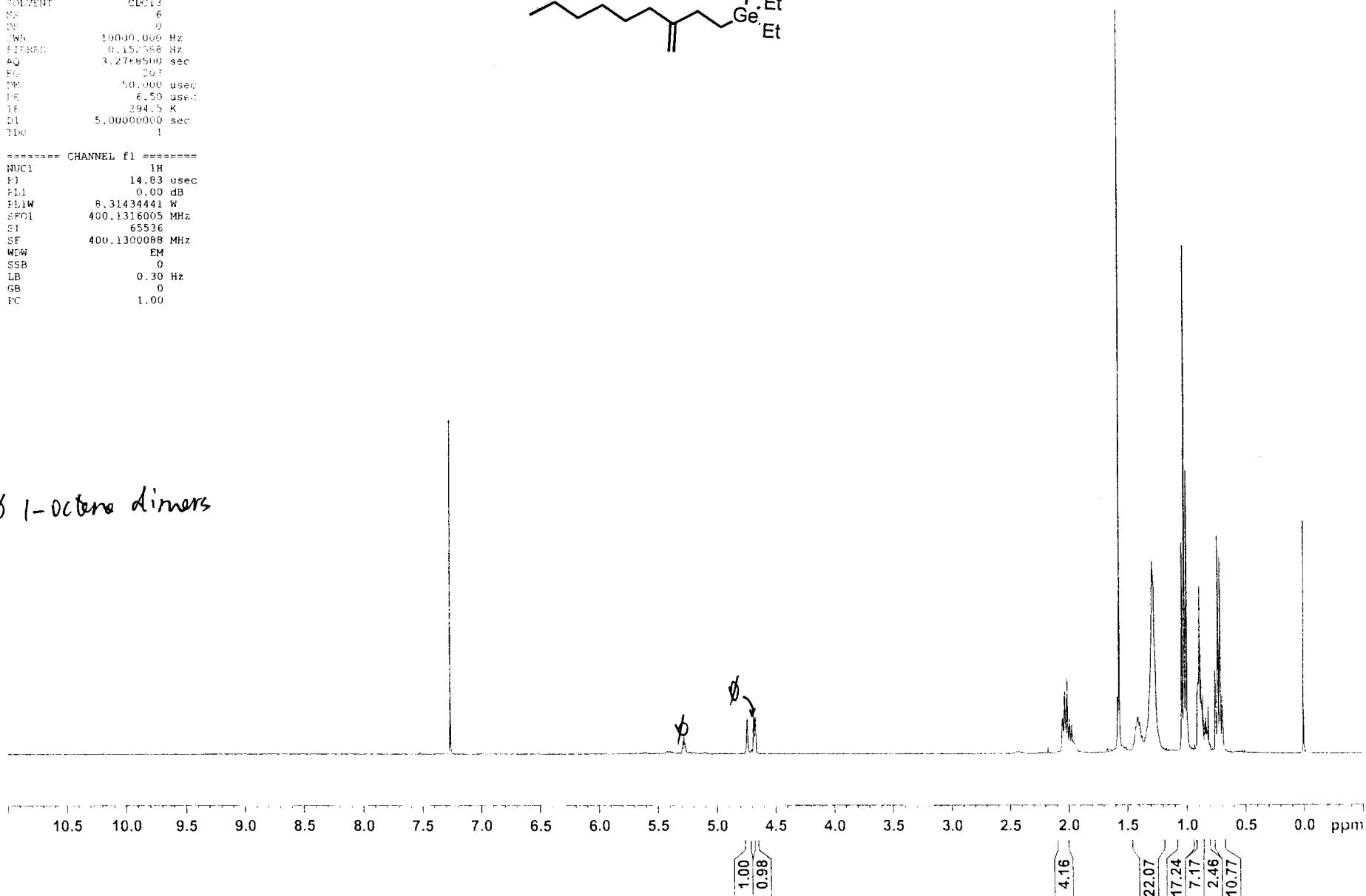


NAME nis-2-26-3-113c
EXNO 1
PROCNO 1
Date 20101016
Time 11.12
INSTRUM spect
PROBHD 5 mm EASY 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 6
DS 0
SWH 10000.000 Hz
FIDRES 0.157588 Hz
AQ 3.2788500 sec
RG 203
DE 50.000 usec
TE 6.50 usec
TE 294.5 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.83 usec
PL1 0.00 dB
PL1W 6.31434441 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300088 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



Ø 1-octene dimers





NAME hls-2-26-3-t13c
EXFNO 2
PROCNO 1
Date_ 20101016
Time 11.18
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 3871
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
LW 20.800 usec
DE 6.50 usec
TE 294.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.68 usec
PL1 -0.60 dB
PL1W 41.24164963 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 0.00 dB
PL12 15.66 dB
PL13 15.92 dB
PL1W 8.31434441 W
PL12W 0.22585411 W
PL13W 0.21272963 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127546 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

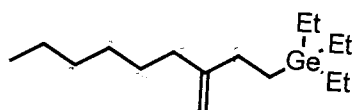
153.23

107.40

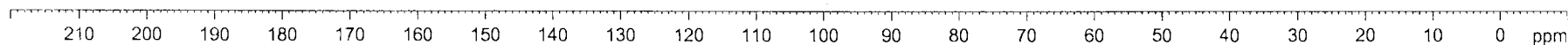
77.48
77.16
76.84

35.91
31.95
31.53
29.31
27.97
22.80

14.26
9.84
9.13
3.97

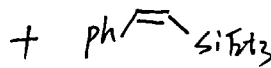
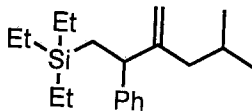


1-octene dimers

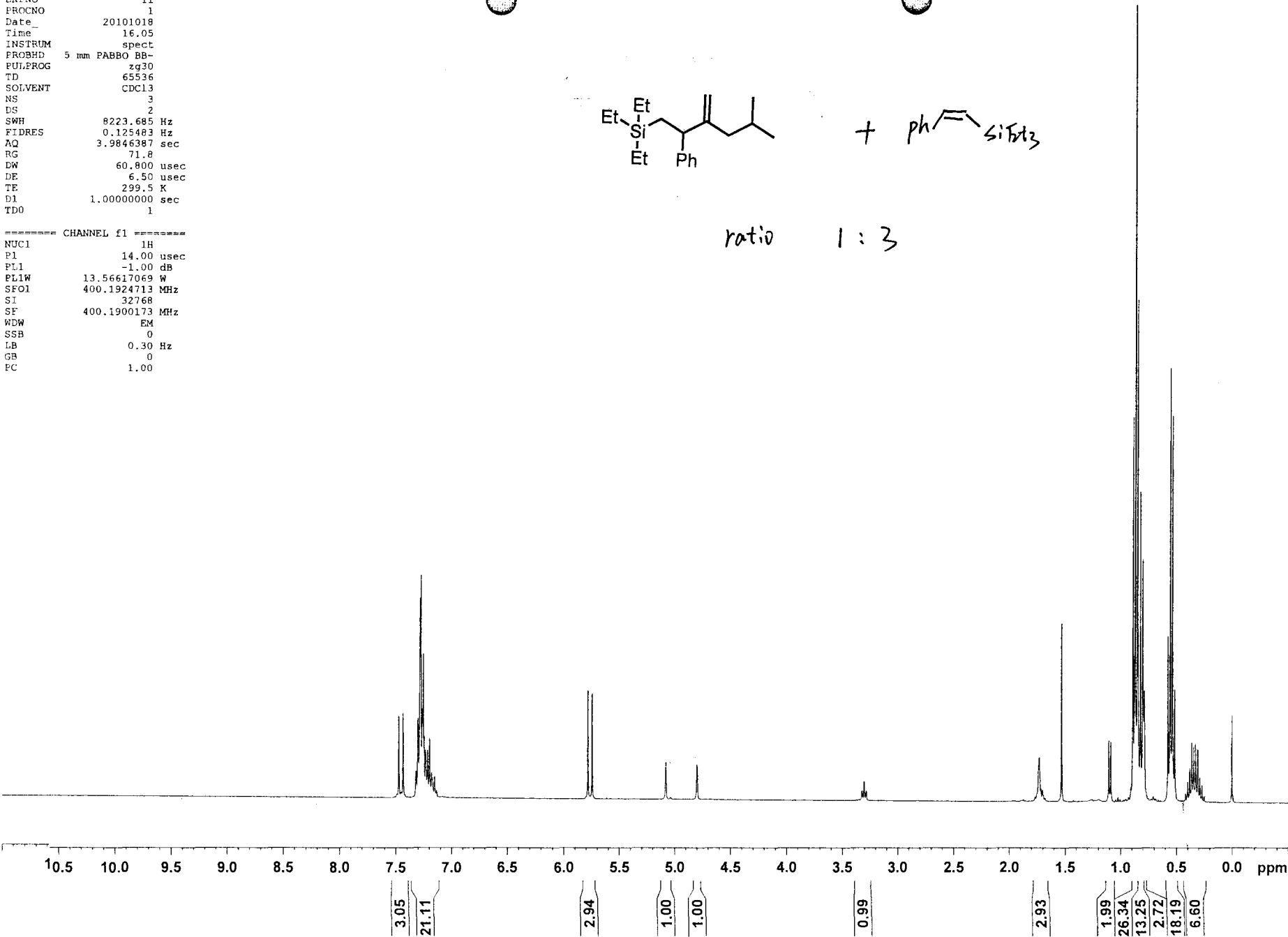


NAME hls-2-7-1 t9
EXPNO 11
PROCNO 1
Date_ 20101018
Time 16.05
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 3
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 71.8
DW 60.800 usec
DE 6.50 usec
TE 299.5 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SFO1 400.1924713 MHz
SI 32768
SF 400.1900173 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



ratio 1 : 3





NAME hls-2-7-1 t9
EXPNO 2
PROCNO 1
Date_ 20101018
Time 18.11
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 342
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 161
DW 20.800 usec
DE 6.50 usec
TE 299.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

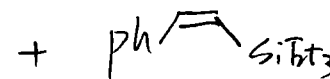
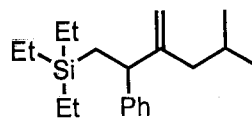
153.66
147.85
140.66
129.60
128.19
128.12
127.98
127.45
126.19
109.25

77.47
77.16
76.84

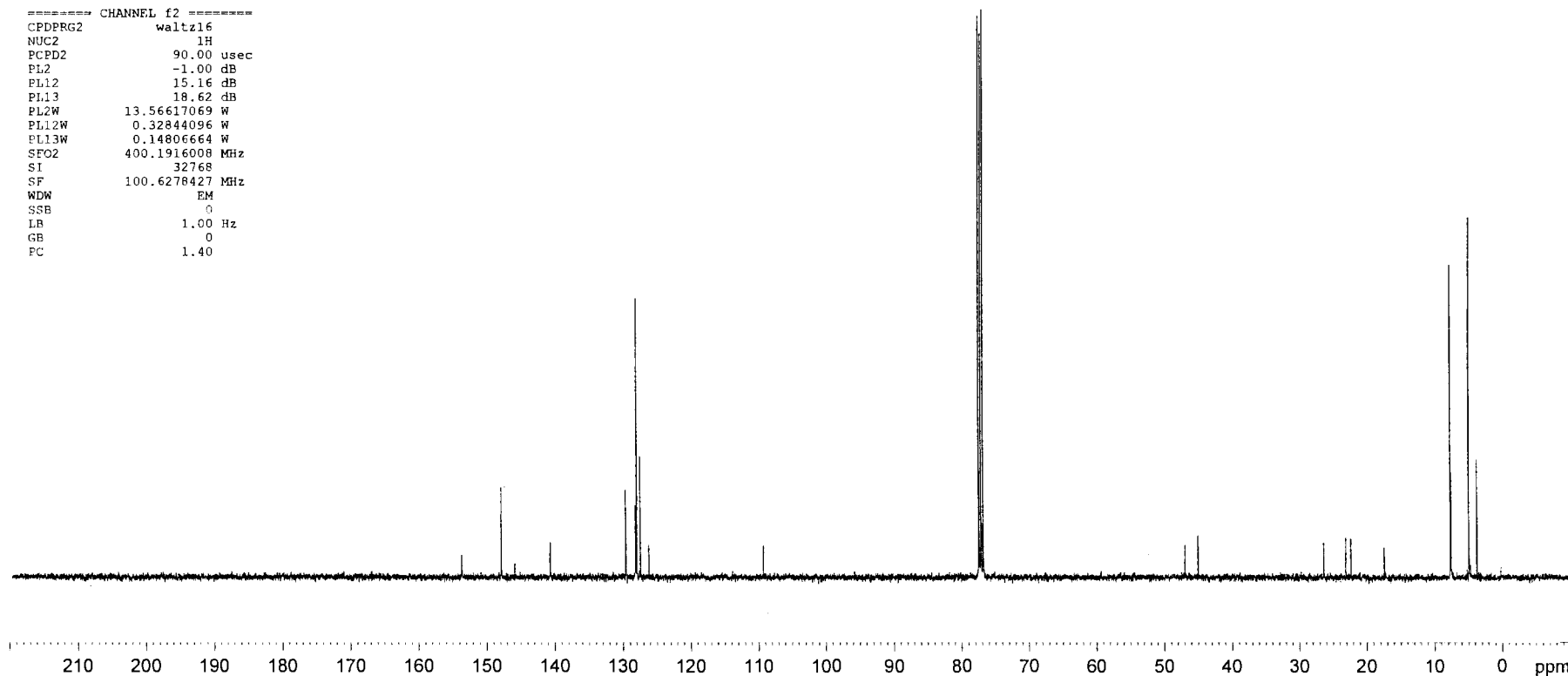
46.92
45.00

26.37
23.05
22.31
17.42

7.61
7.49
4.88
3.69

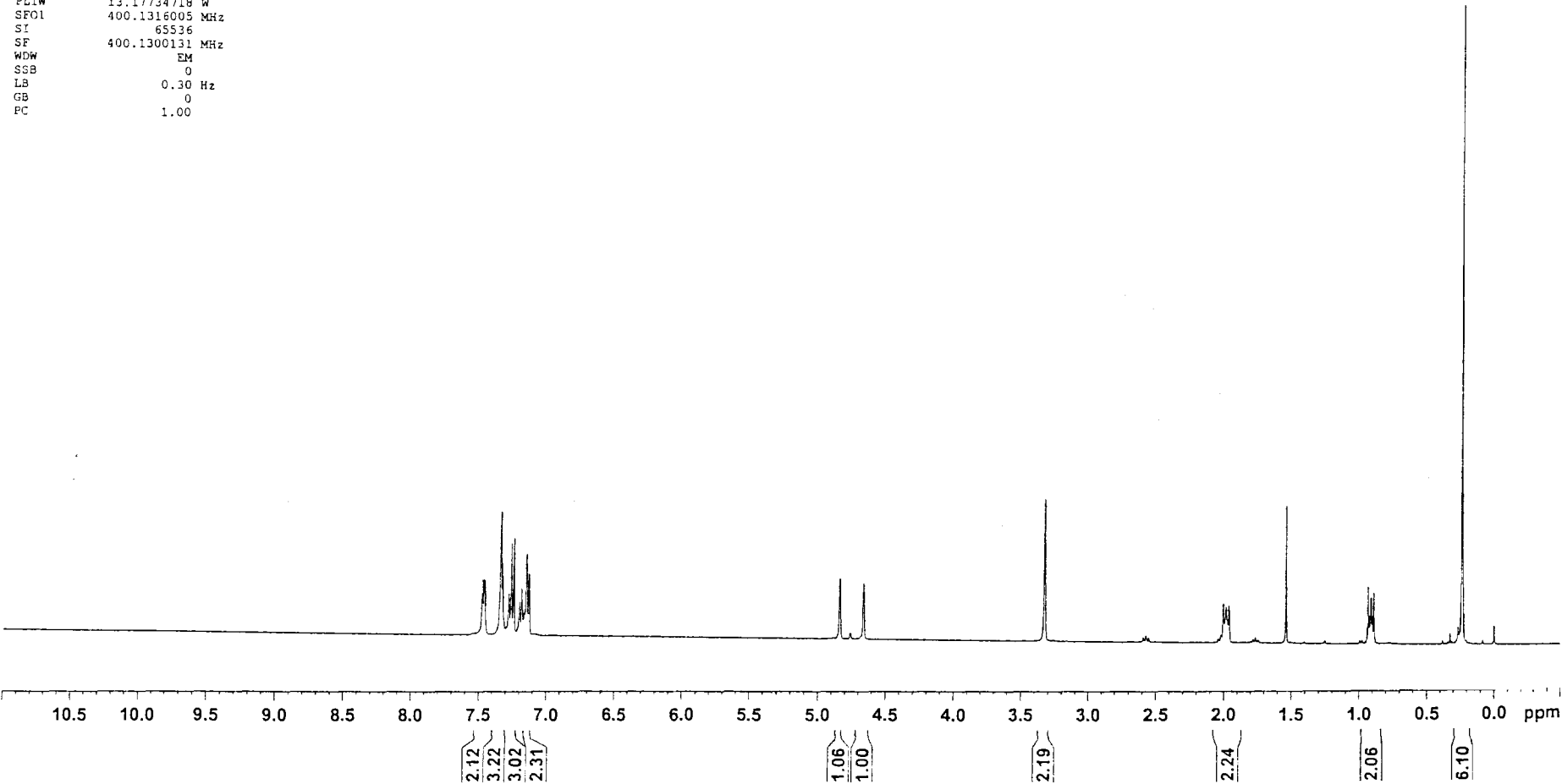
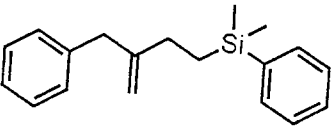


ratio 1 : 3



NAME hls-1-246-3-t30
EXPNO 1
PROCNO 1
Date_ 20100616
Time 20.08
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 2
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 80.6
DW 50.000 usec
DE 6.50 usec
TE 297.2 K
D1 5.0000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SF01 400.1316005 MHz
SI 65536
SF 400.1300131 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME hls-1-246-3-t30
EXPNO 2
PROCNO 1
Date_ 20100616
Time_ 20.55
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 100
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 297.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 14.50 usec
PL1 -4.00 dB
PL1W 90.22689819 W
SFO1 100.6228298 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -2.00 dB
PL12 18.80 dB
PL13 18.80 dB
PL2W 13.17734718 W
PL12W 0.10960442 W
PL13W 0.10960442 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127553 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

151.65
139.96
133.69
129.17
128.99
128.37
127.88
126.11

110.11

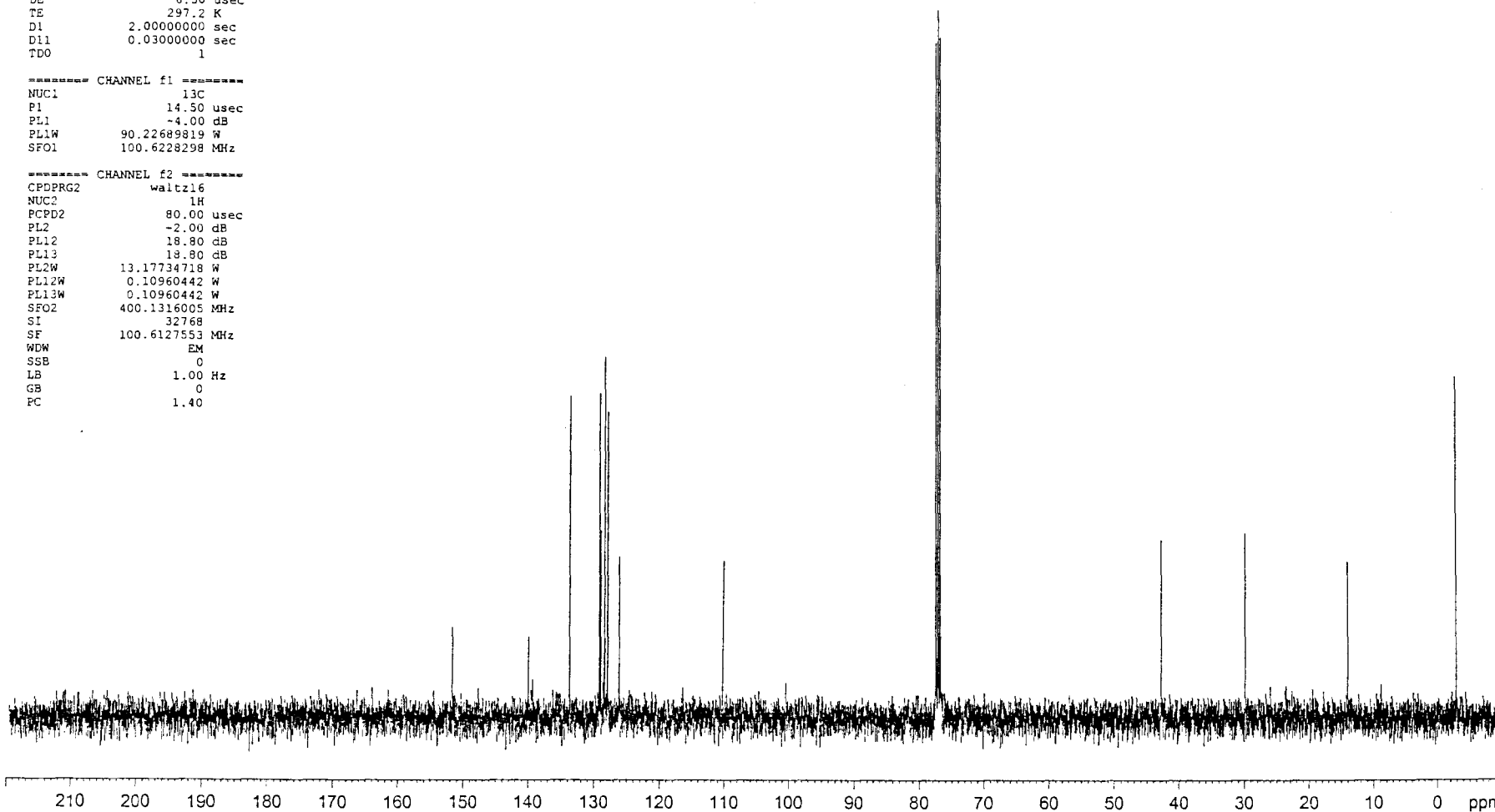
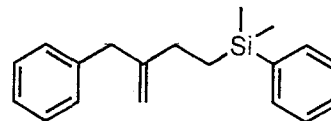
77.48
77.16
76.84

42.73

29.80

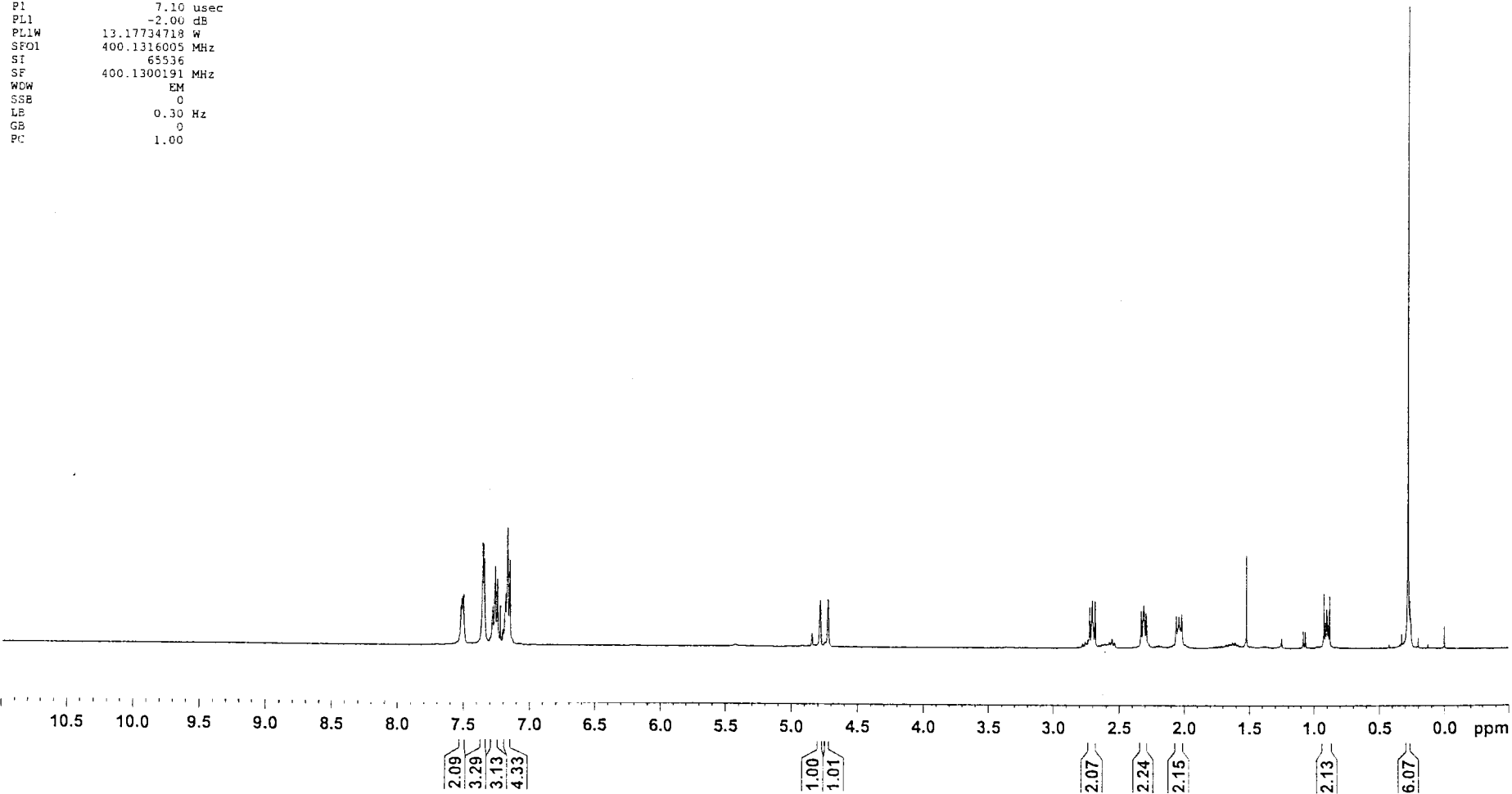
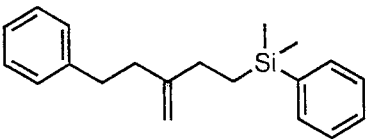
13.91

-2.99



NAME his-1-232-3-t2526
EXPNO 1
PROCNO 1
Date_ 20100526
Time 20.11
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 11
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 50.8
DW 50.000 usec
DE 6.50 usec
TE 294.4 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300191 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME his-1-238-1-t2926
EXPNO 2
PROCNO 1
Date_ 20100526
Time_ 21.28
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 46
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 295.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 14.50 usec
PL1 -4.00 dB
PL1W 90.22689819 W
SFO1 100.6228298 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -2.00 dB
PL12 18.80 dB
PL13 18.80 dB
PL2W 13.17734718 W
PL12W 0.10960442 W
PL13W 0.10960442 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127583 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

151.79
142.43
139.29
133.70
129.02
128.45
128.42
127.90
125.89

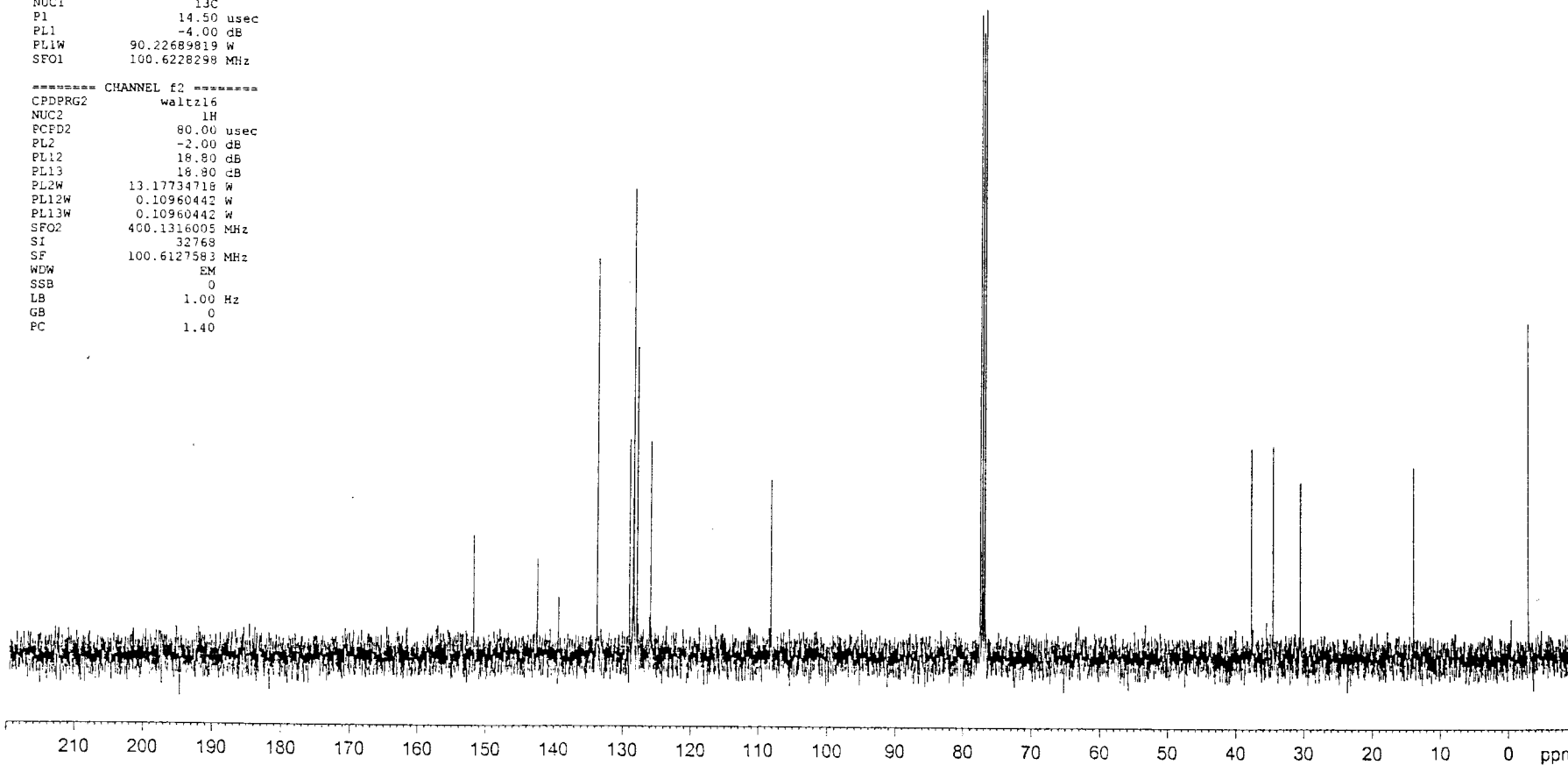
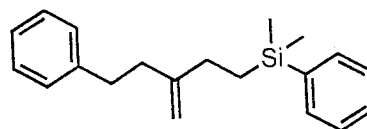
108.14

77.47
77.16
76.84

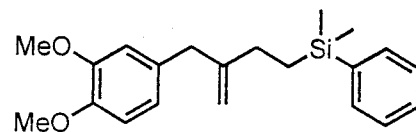
37.71
34.51
30.53

13.94

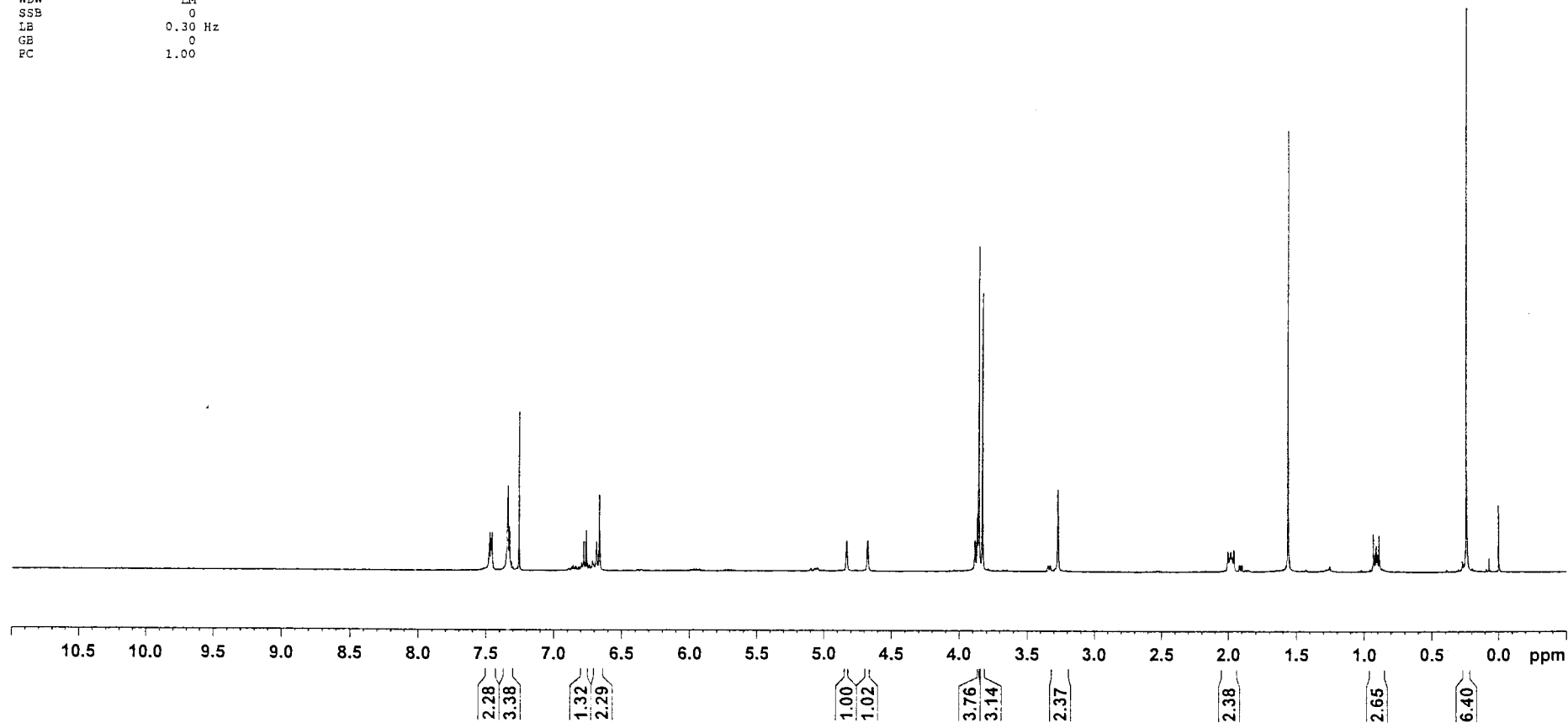
-2.99



NAME his-2-17-2-t15
EXPNO 1
PROCNO 1
Date_ 20101009
Time 12.30
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 2
DS 1
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 128
DW 60.800 usec
DE 6.50 usec
TE 298.3 K
D1 5.00000000 sec
TD0 1



===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SF01 400.1924713 MHz
SI 32768
SF 400.1900147 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



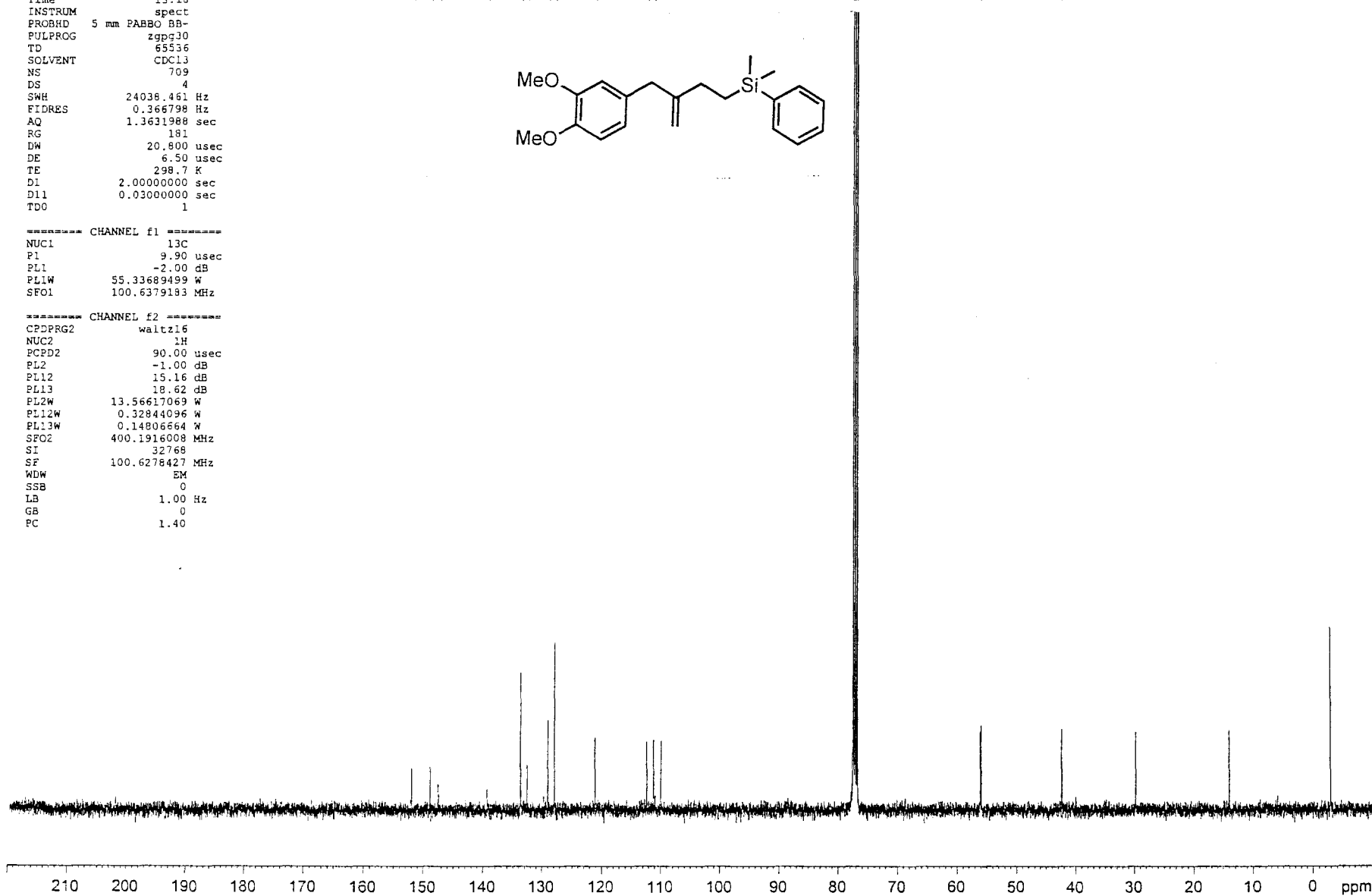
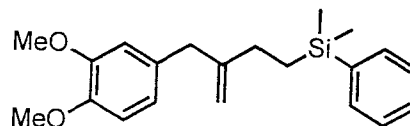


NAME hls-2-17-2-t15
EXPNO 2
PROCNO 1
Date_ 20101009
Time 13.18
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 709
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 181
DW 20.800 usec
DE 6.50 usec
TE 298.7 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

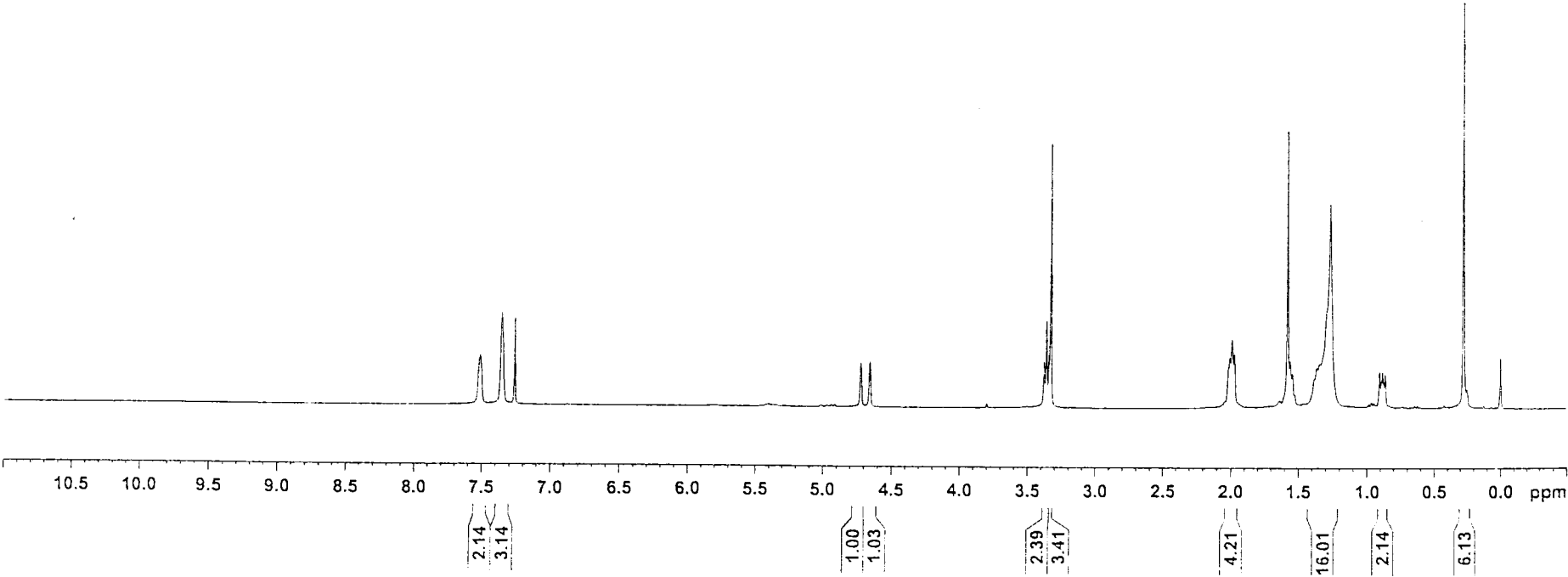
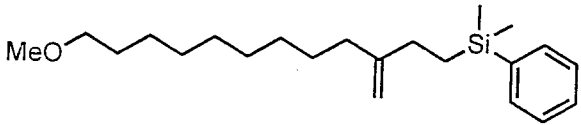
----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916003 MHz
SI 32768
SF 100.6278427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

151.90
148.90
147.46
139.31
133.68
132.55
129.00
127.88
121.13
112.35
111.21
109.90
77.48
77.16
76.84
56.05
55.93
42.36
29.73
13.95
-2.97



NAME his-2-11-5-c30
EXPNO 1
PROCNO 1
Date_ 20100905
Time_ 18.14
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 5
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 203
EW 50.000 usec
DE 6.50 usec
TE 296.3 K
D1 5.00000000 sec
TDC 1

----- CHANNEL f1 -----
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734719 W
SFO1 400.1316003 MHz
SI 65536
SF 400.1300051 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

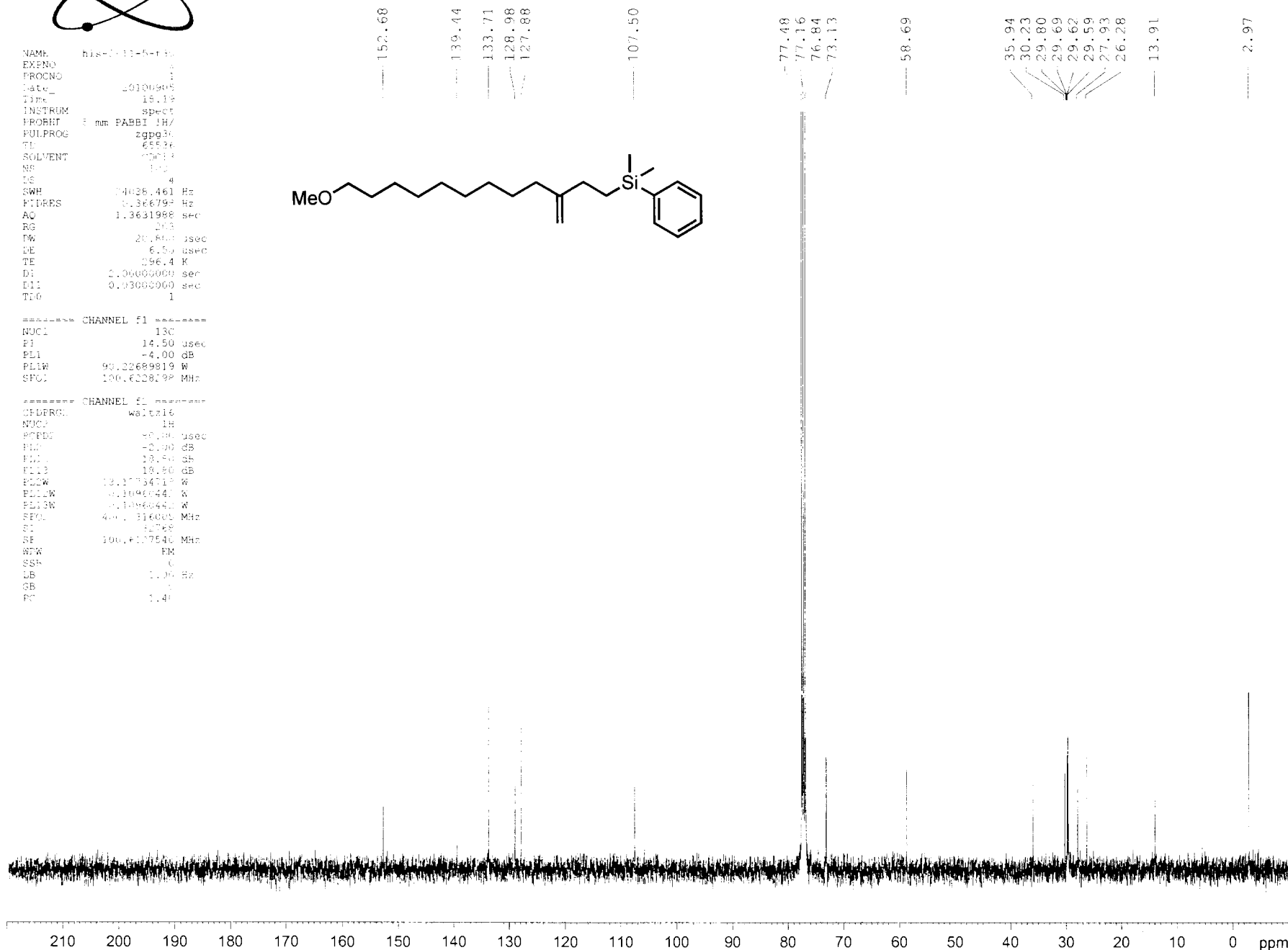
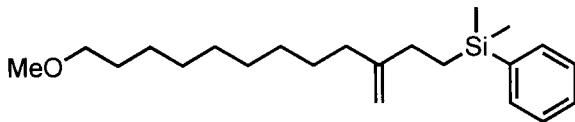




NAME: bis-13-5-13-5
EXPNO: 4
PROCNO: 1
Date_: 20100905
Time: 15.18
INSTRUM: spect
PROBHD: 5 mm PABBI 1H/
PULPROG: zgpg30
TE: 300.2
SOLVENT: DMSO-d6
NS: 1024
DS: 4
SWH: 24038.461 Hz
FIDRES: 0.366799 Hz
AQ: 1.3631988 sec
RG: 203
RW: 20.800 usec
DE: 6.50 usec
TE: 296.4 K
DI: 2.0000000 sec
EI: 0.0300000 sec
TD: 1

===== CHANNEL f1 =====
NUC1: 13C
P1: 14.50 usec
PL1: -4.00 dB
PL1W: 99.22689819 W
SFO1: 100.6228199 MHz

===== CHANNEL f2 =====
SFO2: 400.146001 MHz
NUC2: 1H
P2: 12.00 usec
PL2: -2.00 dB
PL21: 13.00 dB
PL22: 13.00 dB
PL23: 13.00 dB
PL2W: 13.10734719 W
PL21W: 99.10900441 W
PL22W: 99.10900441 W
SFO2: 400.146001 MHz
SI: 1.768
SE: 100.6170540 MHz
W2W: FM
SSB: 0
LB: 1.00 Hz
GB: 0
PC: 1.40



```

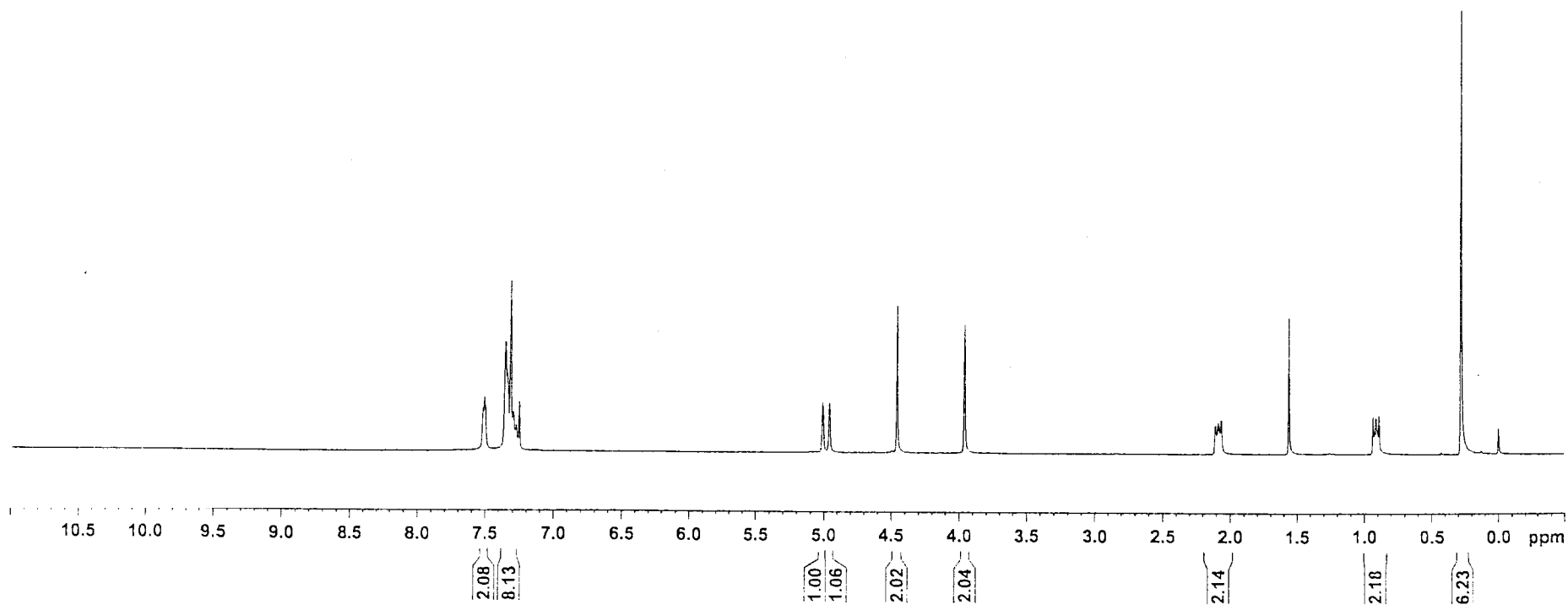
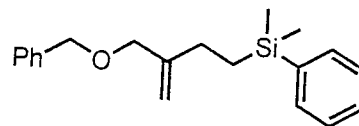
NAME      hls-2-11-6-t18
EXPNO     1
PROCNO    1
Date_     20100905
Time      17.57
INSTRUM   spect
PROBHD    5 mm PABBI 1H/
PULPROG   zg30
TD        65536
SOLVENT   CDCl3
NS        8
DS        0
SWH       10000.000 Hz
FIDRES    0.152588 Hz
AQ        3.2768500 sec
RG        114
DW        50.000 usec
DE        6.50 usec
TE        296.4 K
D1        5.00000000 sec
TD0       1

```

```

===== CHANNEL f1 =====
NUC1      1H
P1        7.10 usec
PL1       -2.00 dB
PL1W      12.17734719 W
SFO1      400.1316005 MHz
SI        65536
SF        400.1300081 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00

```





```

NAME      hls-2-11-6-t18
EXPNO     2
PROCNO    1
Date_     20100905
Time      18.06
INSTRUM   spect
PROBHD    5 mm PABBI 1H/
PULPROG   zgpg30
TD        65536
SOLVENT   CDCl3
NS        1175
DS        4
SWH       24038.461 Hz
FIDRES    0.366798 Hz
AQ        1.3631988 sec
RG        203
DW        20.800 usec
DE        6.50 usec
TE        296.6 K
D1        2.00000000 sec
D11       0.03000000 sec
TD0       1
  
```

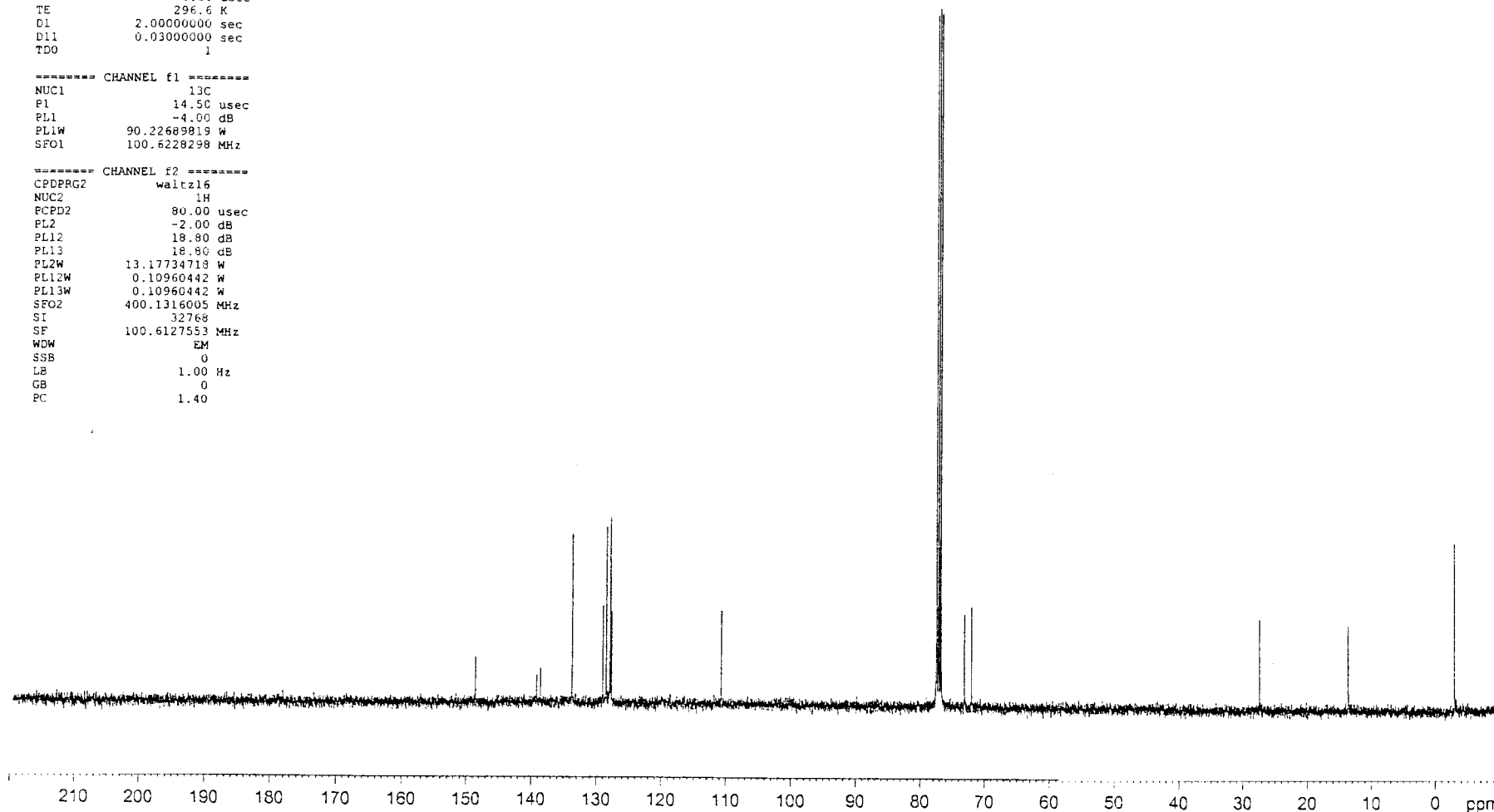
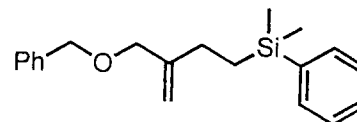
```

===== CHANNEL f1 =====
NUC1      13C
P1        14.50 usec
PL1       -4.00 dB
PL1W      90.22689819 W
SFO1      100.6228298 MHz
  
```

```

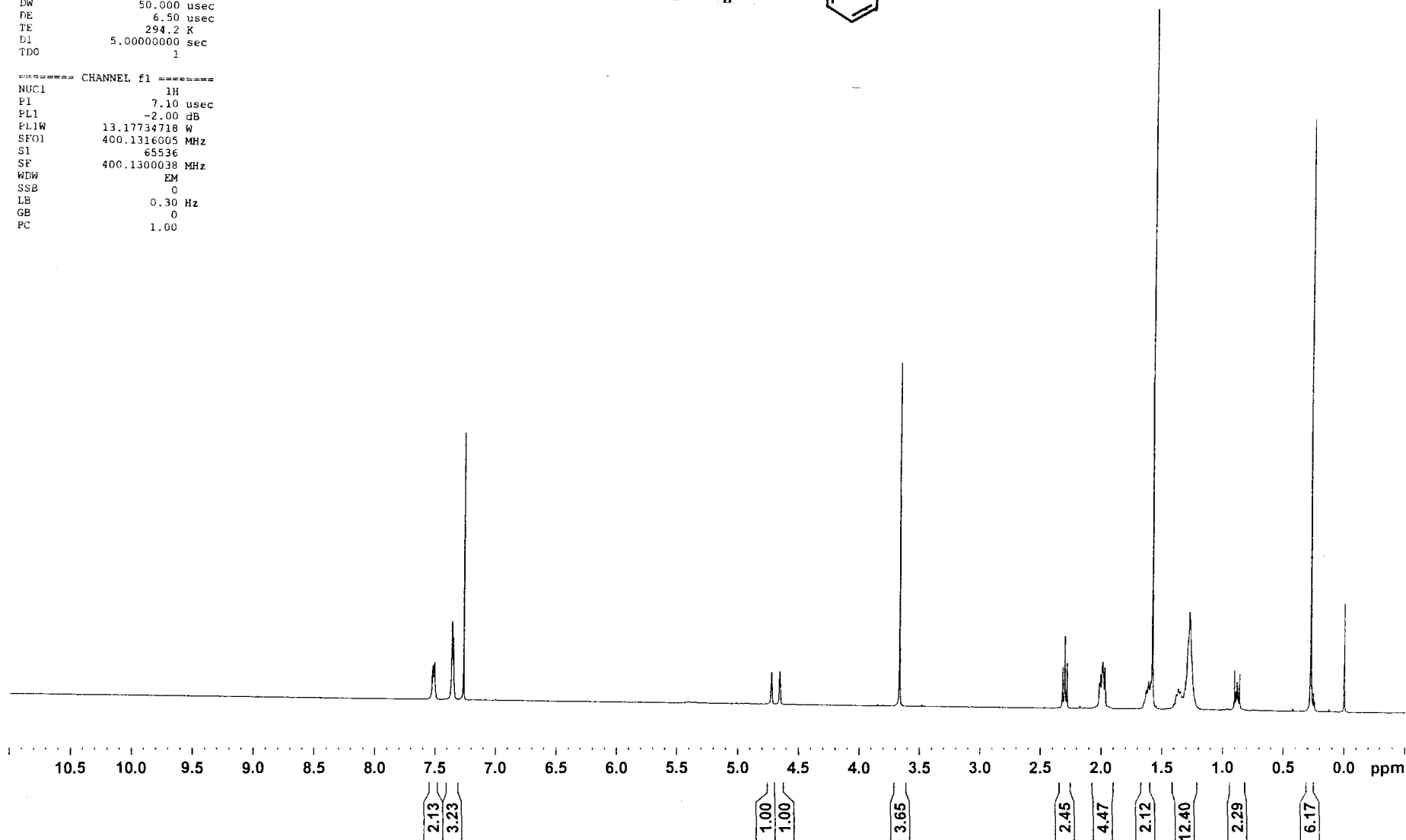
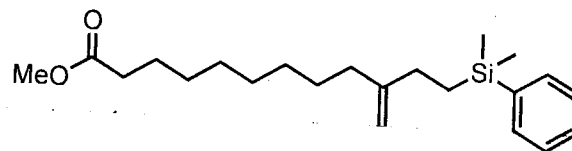
===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
PCPD2     80.00 usec
PL2       -2.00 dB
PL12      18.80 dB
PL13      18.80 dB
PL2W      13.17734718 W
PL12W     0.10960442 W
PL13W     0.10960442 W
SFO2      400.1316005 MHz
SI        32768
SF        100.6127553 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.40
  
```

148.60
 139.22
 138.57
 133.72
 129.03
 128.49
 127.91
 127.85
 127.66
 110.70
 77.47
 77.16
 76.84
 73.09
 72.00



NAME hls-1-247-2-t65
EXPNO 1
PROCNO 1
Date_ 20100618
Time_ 16.05
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 6
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 203
DW 50.000 usec
DE 6.50 usec
TE 294.2 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 13.17734718 W
SFO1 400.1316005 MHz
S1 65536
SF 400.1300038 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

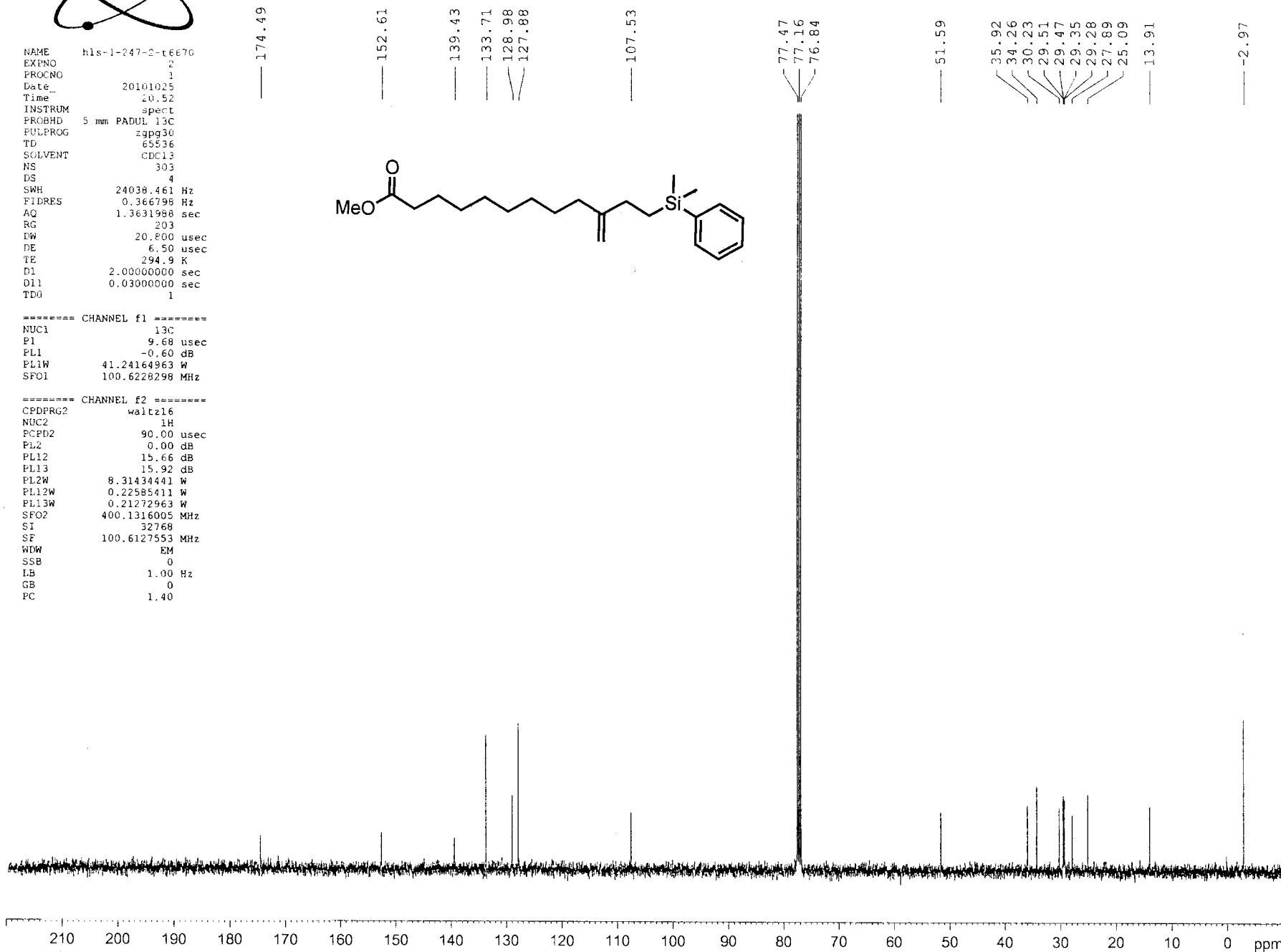
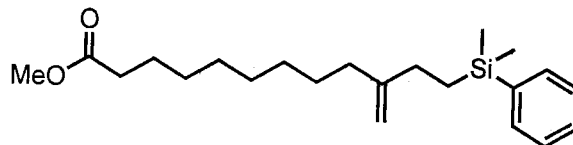




NAME hls-1-247-2-r6670
EXPNO 2
PROCNO 1
Date_ 20101025
Time_ 20.52
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG zgpg30
TD 65536
SOLVENT cdc13
NS 303
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 294.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

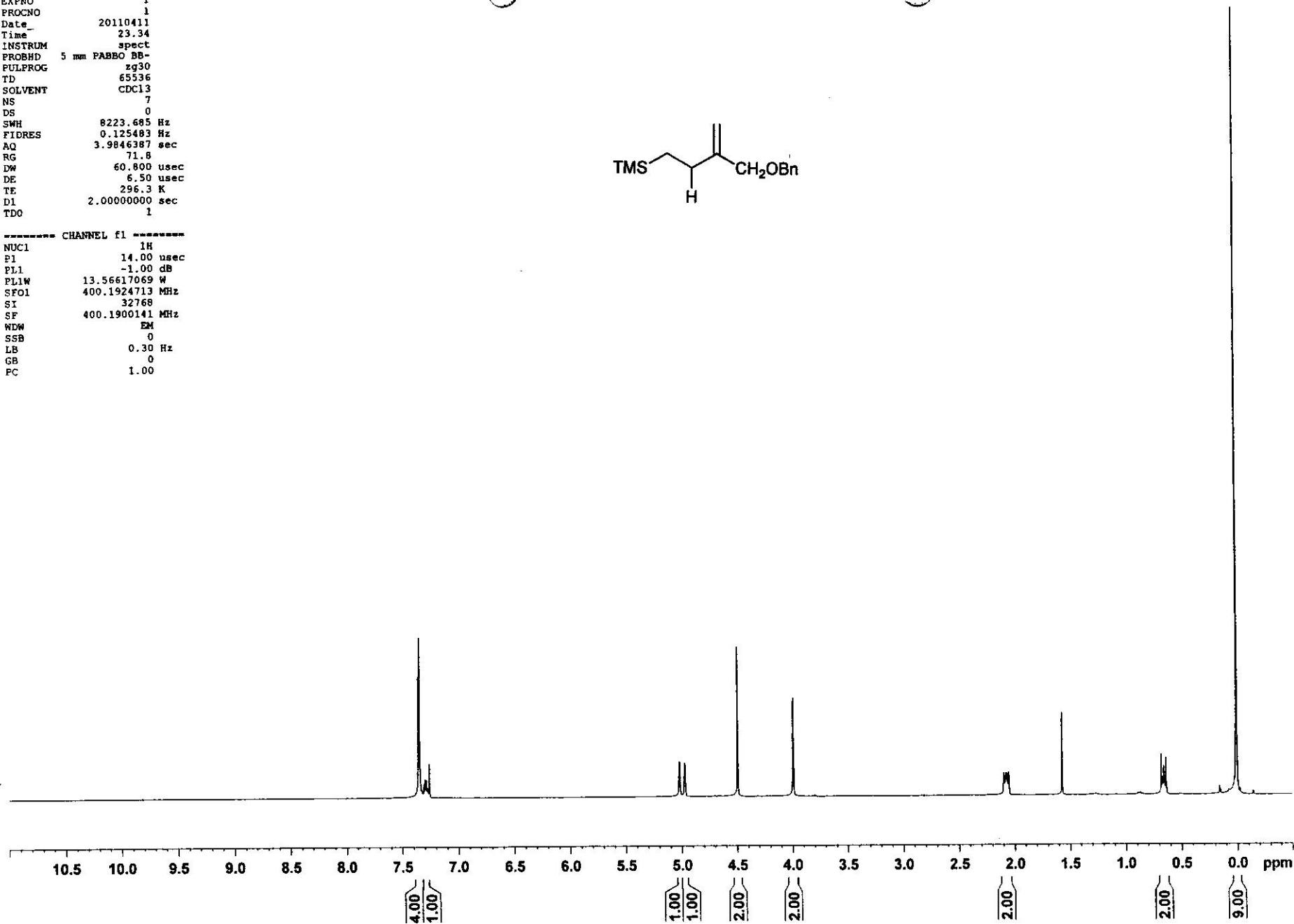
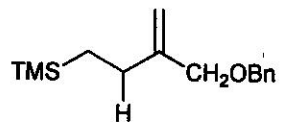
===== CHANNEL f1 =====
NUC1 13C
P1 9.68 usec
PL1 -0.60 dB
PL1W 41.24164963 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 0.00 dB
PL12 15.66 dB
PL13 15.92 dB
PL2W 8.31434441 W
PL12W 0.22585411 W
PL13W 0.21272963 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127553 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



NAME his-2-109-6-t 25
EXPNO 1
PROCNO 1
Date_ 20110411
Time 23.34
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 7
DS 0
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 71.8
DW 60.800 usec
DE 6.50 usec
TE 296.3 K
D1 2.00000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SFO1 400.1924713 MHz
SI 32768
SF 400.1900141 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME h1s-2-109-6-t 25
EXPNO 2
PROCNO 1
Date_ 20110411
Time 23.41
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 93
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 161
LW 20.800 usec
DE 6.50 usec
TE 296.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL12W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
S1 32768
SF 100.6278434 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

148.87

138.64

128.50
127.85
127.67

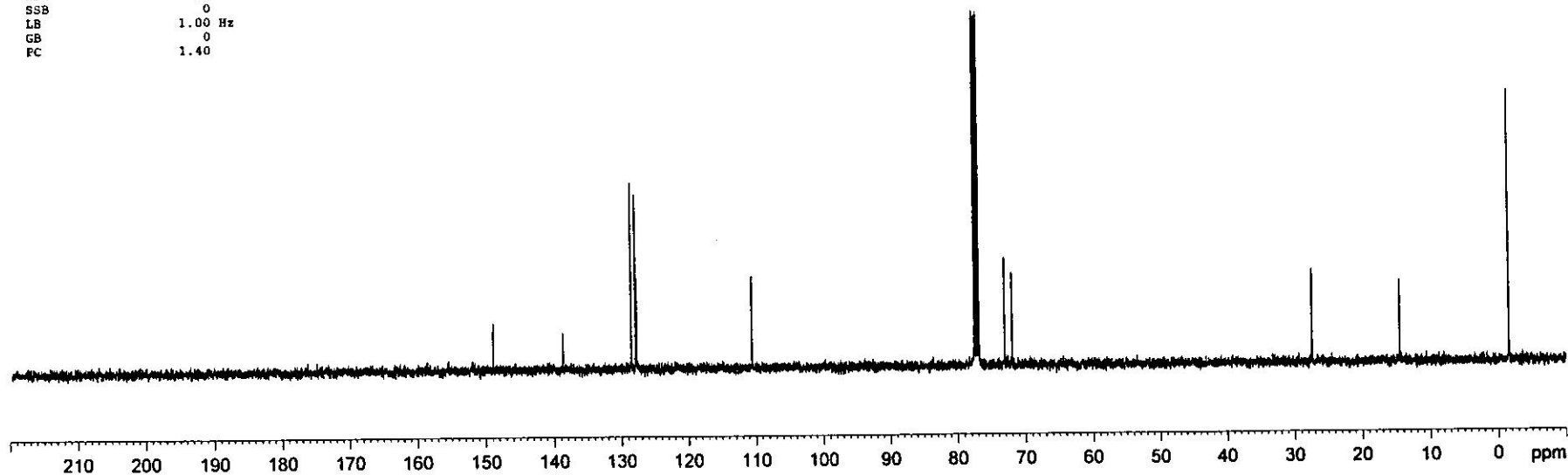
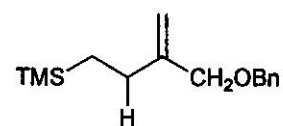
110.55

77.48
77.16
76.85
73.11
72.01

27.46

14.52

-1.62

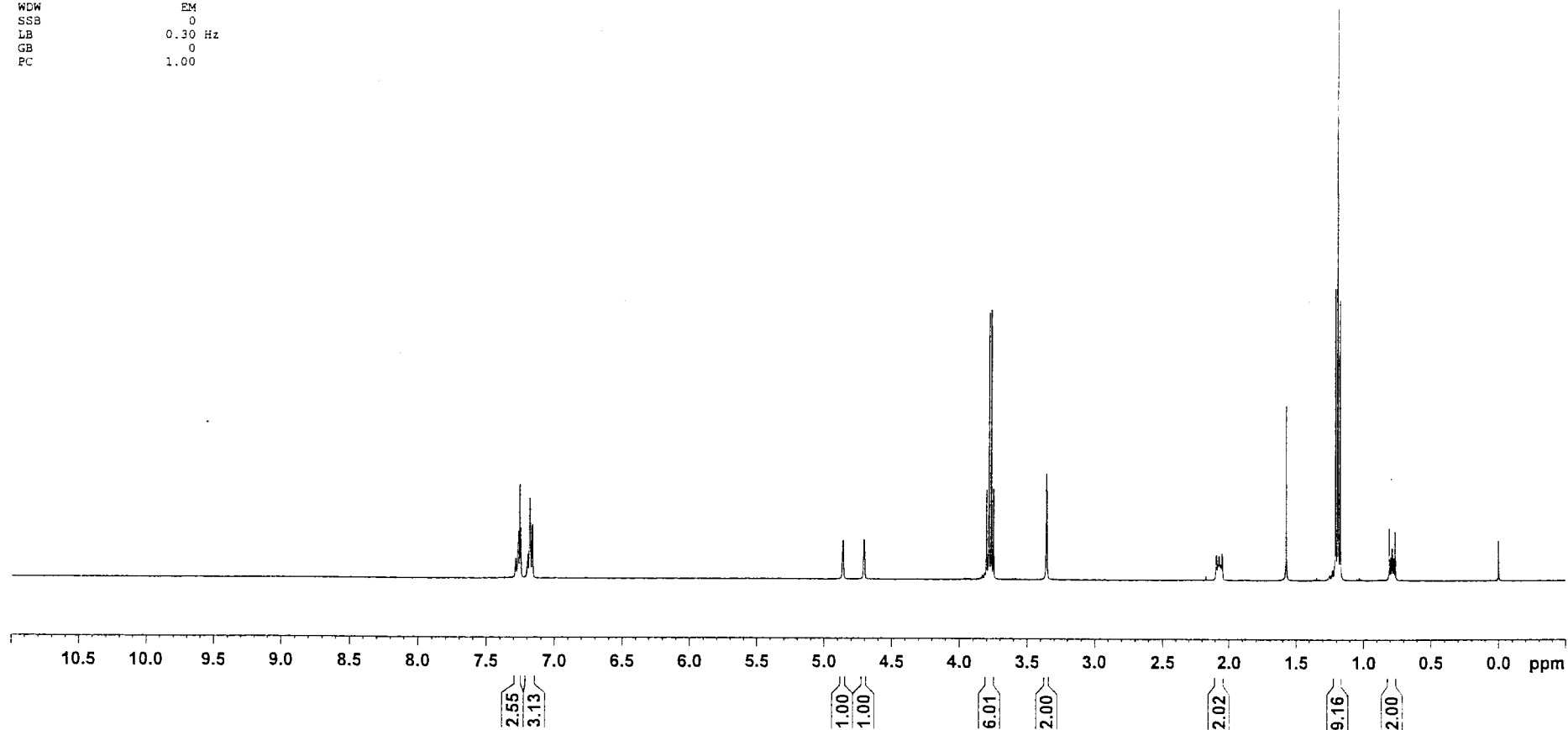
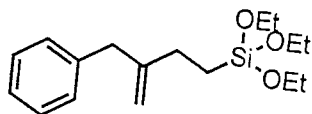


```

NAME      hls-2-27-1b-t25
EXPNO     1
PROCNO    1
Date_     20101013
Time      12.33
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zg30
TD        65536
SOLVENT   CDCl3
NS        4
DS        1
SWH       8223.685 Hz
FIDRES    0.125483 Hz
AQ        3.9846387 sec
RG        90.5
DW        60.900 usec
DE        6.50 usec
TE        298.0 K
D1        5.00000000 sec
TD0       1
  
```

```

===== CHANNEL f1 =====
NUC1      1H
P1        14.00 usec
PL1       -1.00 dB
PL1W      13.56617069 W
SFO1      400.1924713 MHz
SI        32768
SF        400.1900148 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
  
```



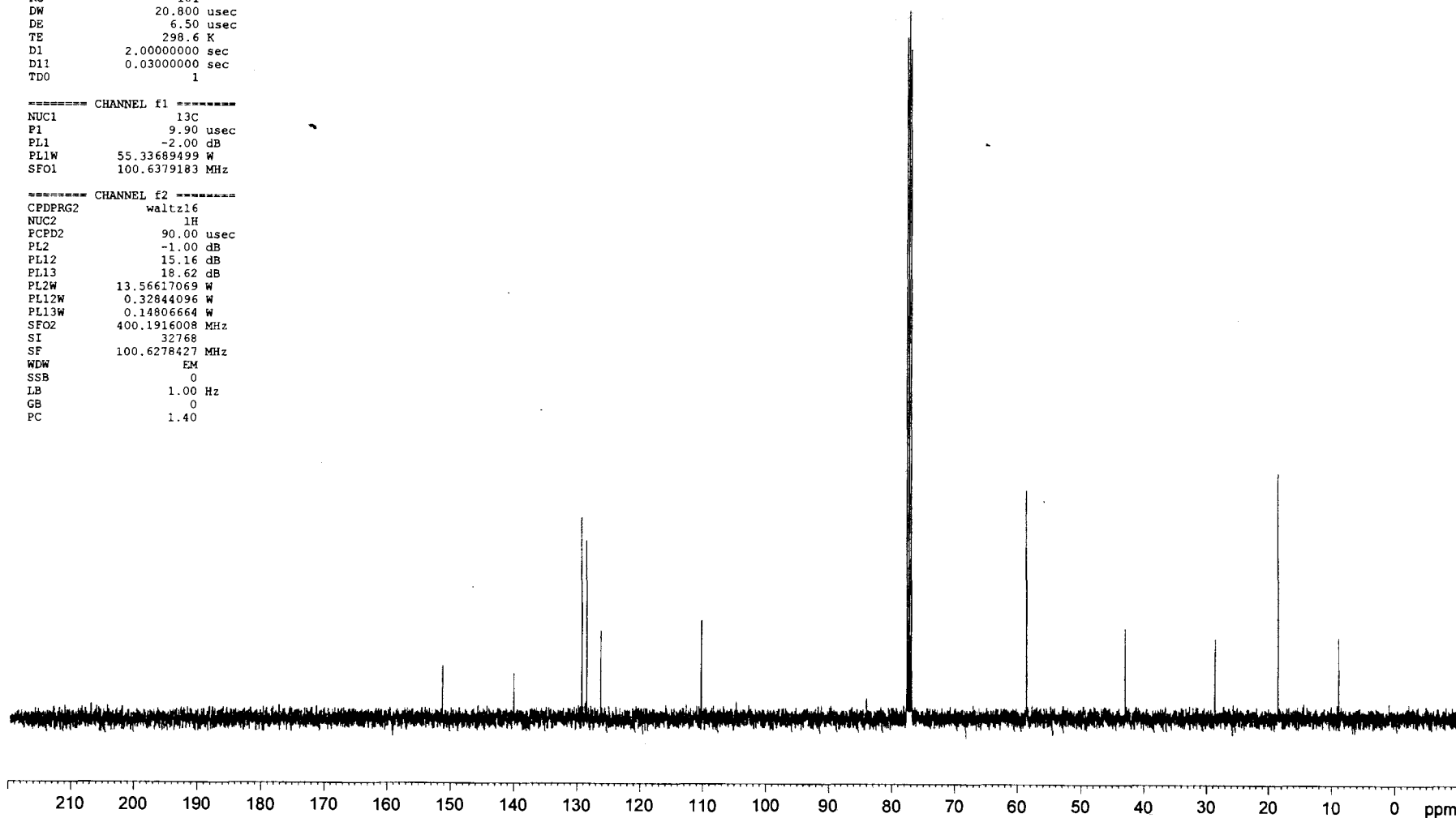
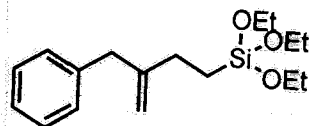


NAME hls-2-27-1b-t25
EXPNO 2
PROCNO 1
Date_ 20101013
Time 12.39
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 70
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 181
DW 20.800 usec
DE 6.50 usec
TE 298.6 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

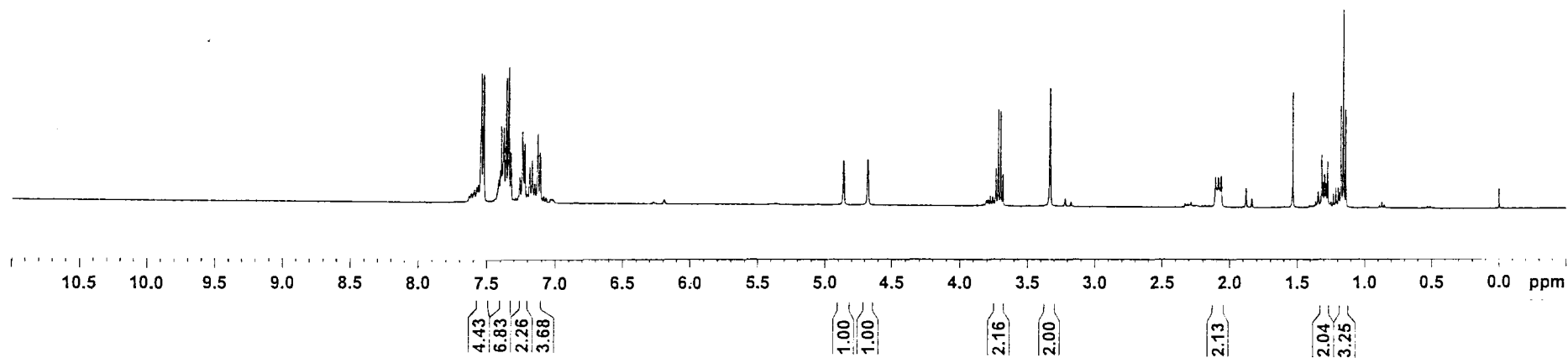
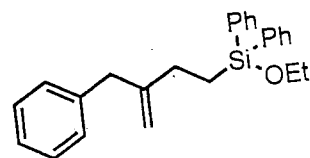
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

151.18
139.94
129.16
128.38
126.13
110.13
77.48
77.16
76.84
58.50
42.88
28.51
18.40
8.77



NAME hls-2-24-3-t29
EXPNO 1
PROCNO 1
Date_ 20101018
Time 17.48
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 3
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 45.2
DW 60.800 usec
DE 6.50 usec
TE 298.7 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SF01 400.1924713 MHz
SI 32768
SF 400.1900248 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



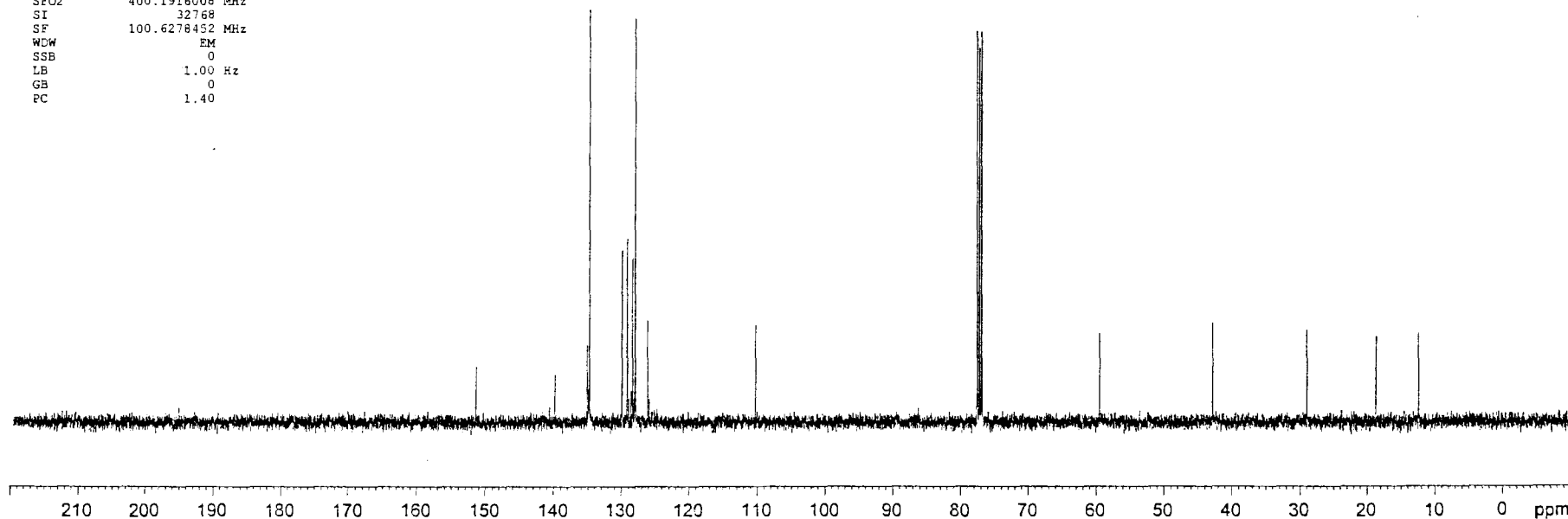
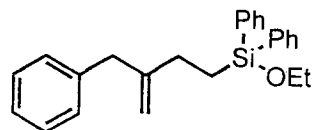


NAME hls-2-24-3-t29
EXPNO 2
PROCNO 1
Date_ 20101018
Time 18.45
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 41
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 161
DW 20.800 usec
DE 6.50 usec
TE 298.9 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278452 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

151.40
139.85
135.12
134.77
129.93
129.18
128.37
127.98
126.12
110.24
77.48
77.16
76.84
59.41
42.74
28.89
18.50
12.33

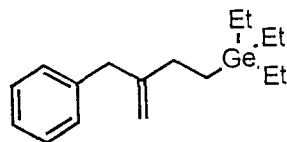




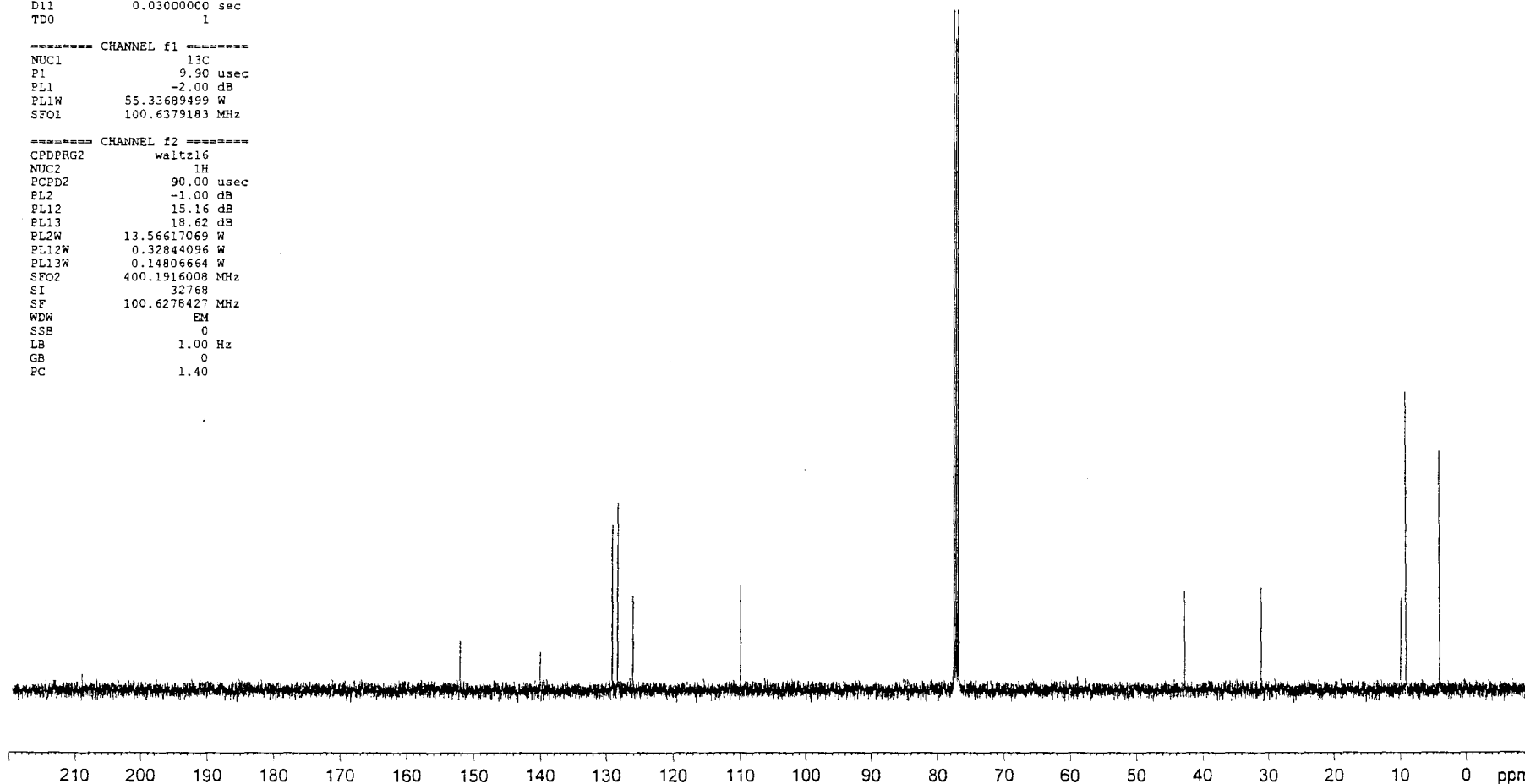
NAME hls-2-26 3c t12
EXPNO 2
PROCNO 1
Date_ 20101011
Time 13.19
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 154
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 228
DW 20.800 usec
DE 6.50 usec
TE 299.1 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

----- CHANNEL f1 -----
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

----- CHANNEL f2 -----
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278427 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

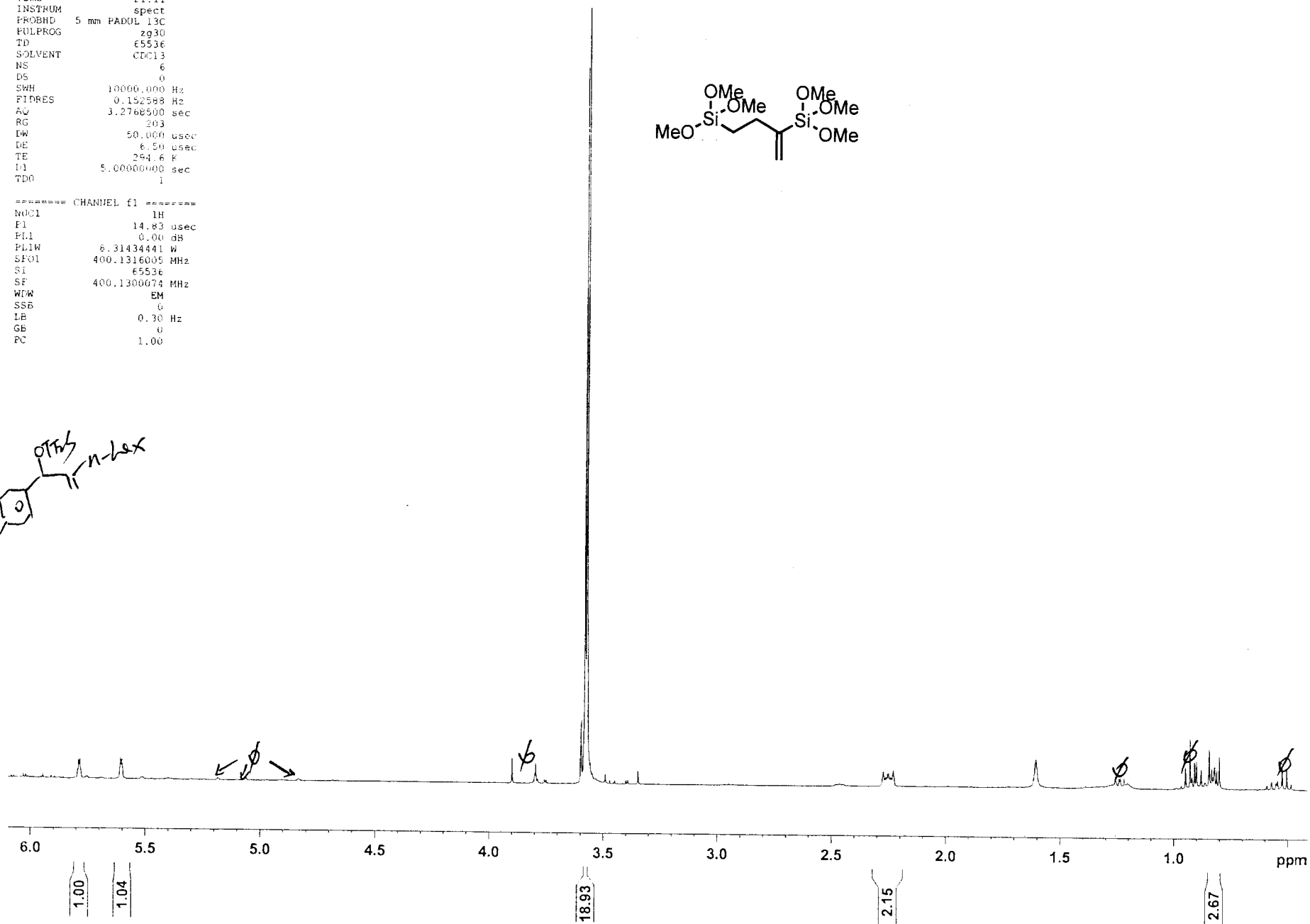
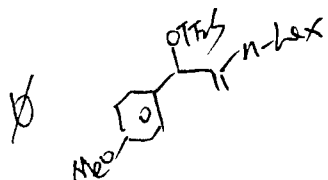
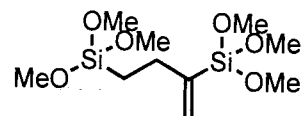


152.18
140.08
129.17
128.37
126.11
109.97
77.47
77.16
76.84
42.72
31.06
9.81
9.08
3.96



NAME his-2-OMehomo
EXPNO 1
PROCNO 1
Date_ 20101025
Time_ 21.11
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 6
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 203
DW 50.000 usec
DE 6.50 usec
TE 294.6 K
F1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.83 usec
PL1 0.00 dB
PL1W 8.31434441 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300674 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

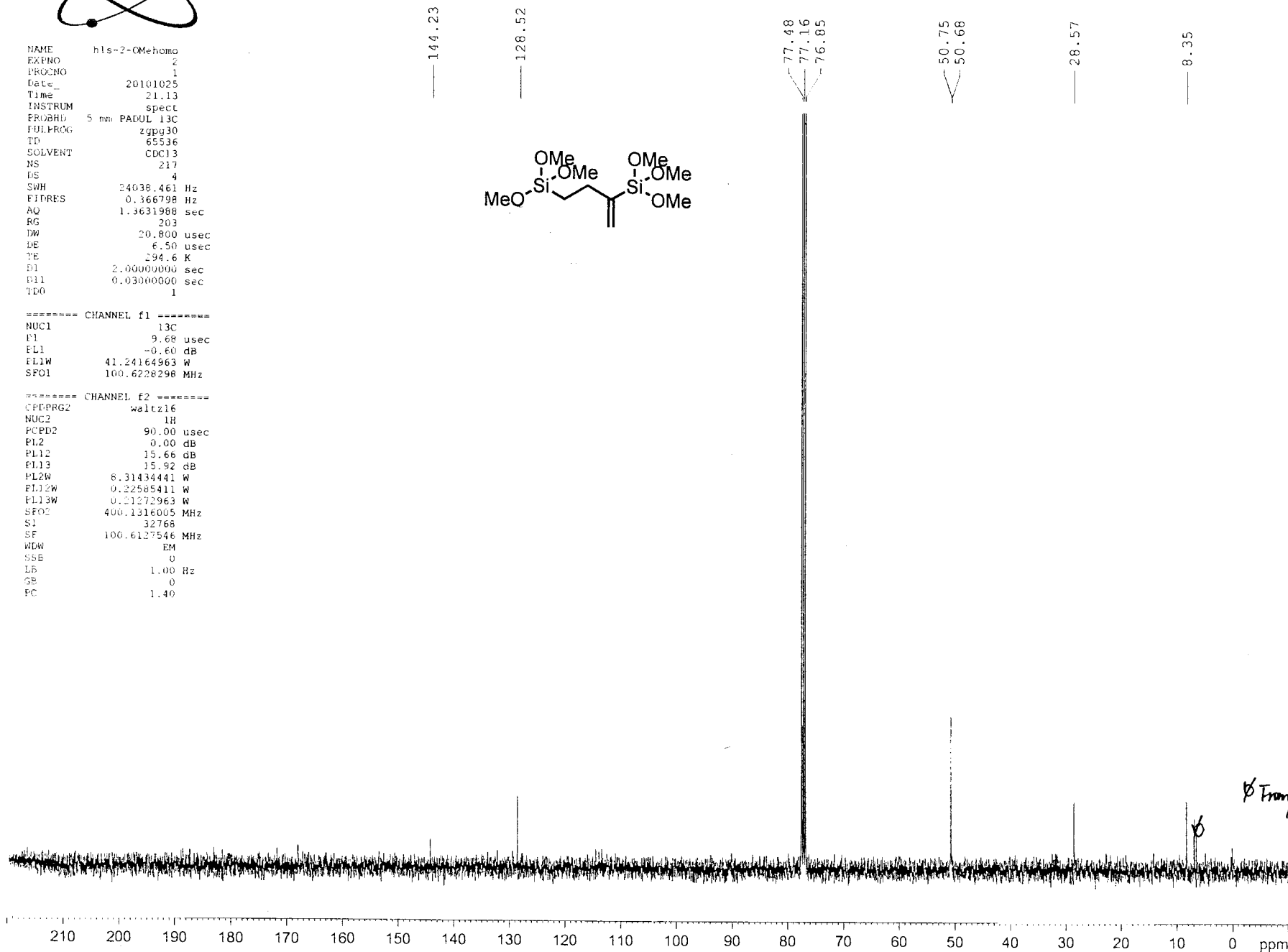
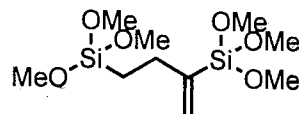




NAME hls-2-OMehomo
EXPNO 2
PROCNO 1
Date_ 20101025
Time_ 21.13
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 217
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 294.6 K
D1 2.00000000 sec
B11 0.03000000 sec
TD0 1

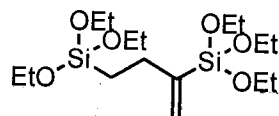
===== CHANNEL f1 =====
NUC1 13C
P1 9.68 usec
PL1 -0.60 dB
PL1W 41.24164963 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 0.00 dB
PL12 15.66 dB
PL13 15.92 dB
PL2W 8.31434441 W
PL12W 0.22585411 W
PL13W 0.21272963 W
SFO2 400.1316005 MHz
S1 32766
SF 100.6137546 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



NAME his-2-26-7a-fior2
EXPNO 1
PROCNO 1
Date_ 20101006
Time_ 22.18
INSTRUM spect
PROBHD 5 mm PABBI 1H/
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 5
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 161
RW 50.000 usec
DE 6.50 usec
TE 294.6 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 7.10 usec
PL1 -2.00 dB
PL1W 15.17734718 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300032 MHz
W1W EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

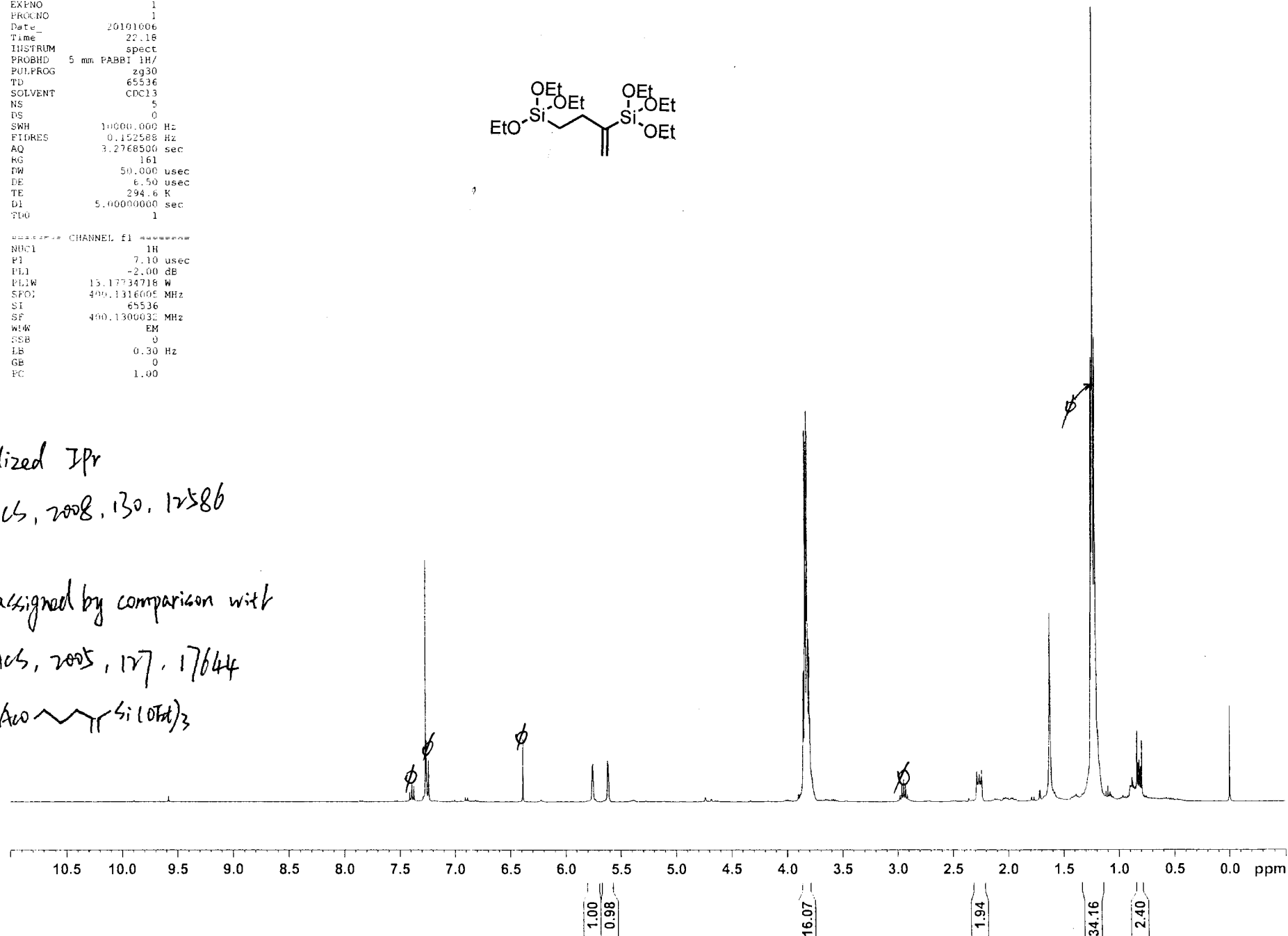
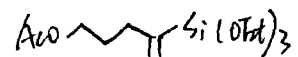


ϕ oxidized IPr

JACS, 2008, 130, 12586

pdt assigned by comparison with

ref: JACS, 2005, 127, 17644

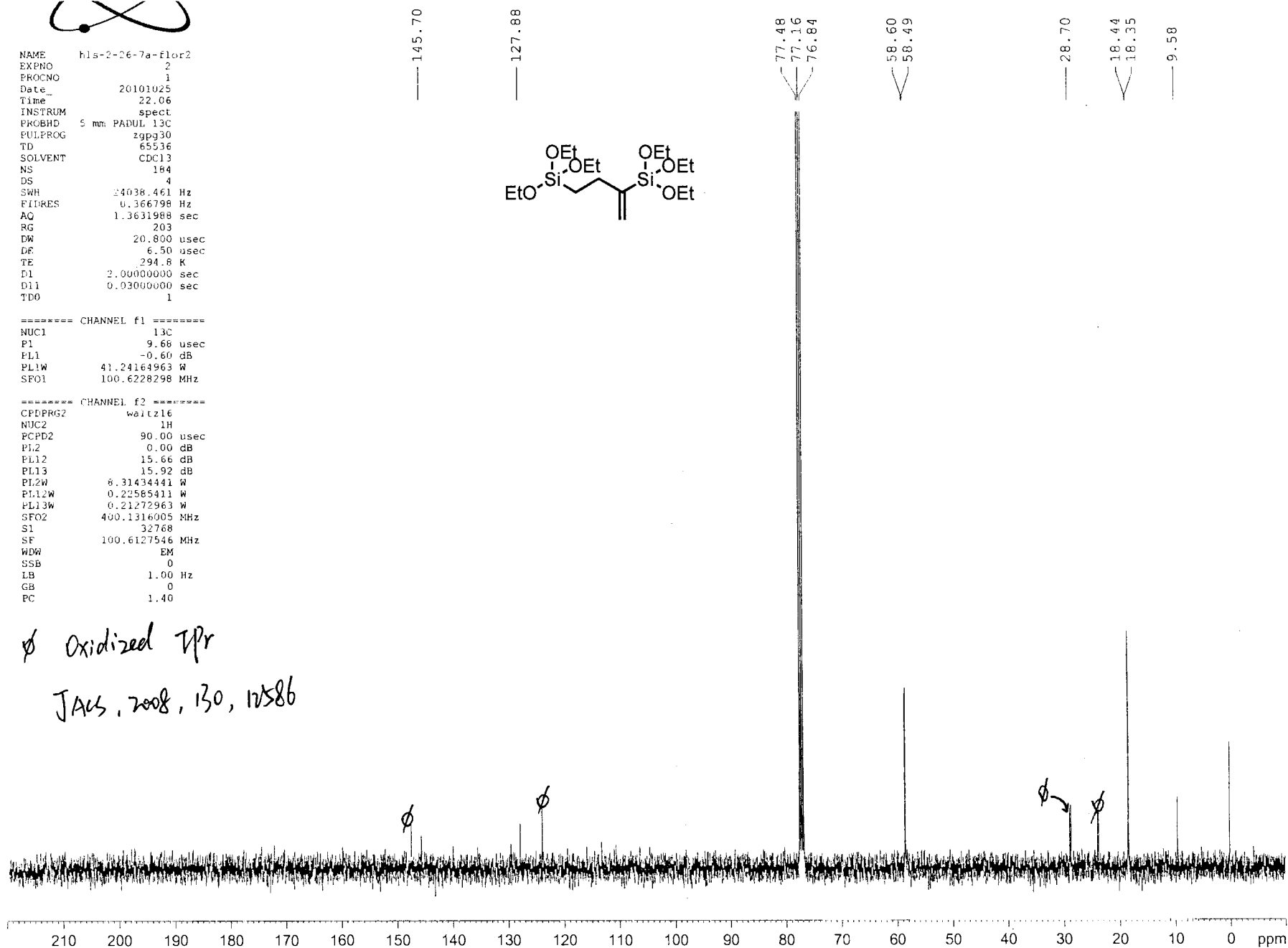
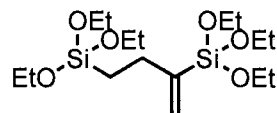




NAME hls-2-26-7a-flor2
EXPNO 2
PROCNO 1
Date_ 20101025
Time_ 22.06
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 164
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 294.8 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

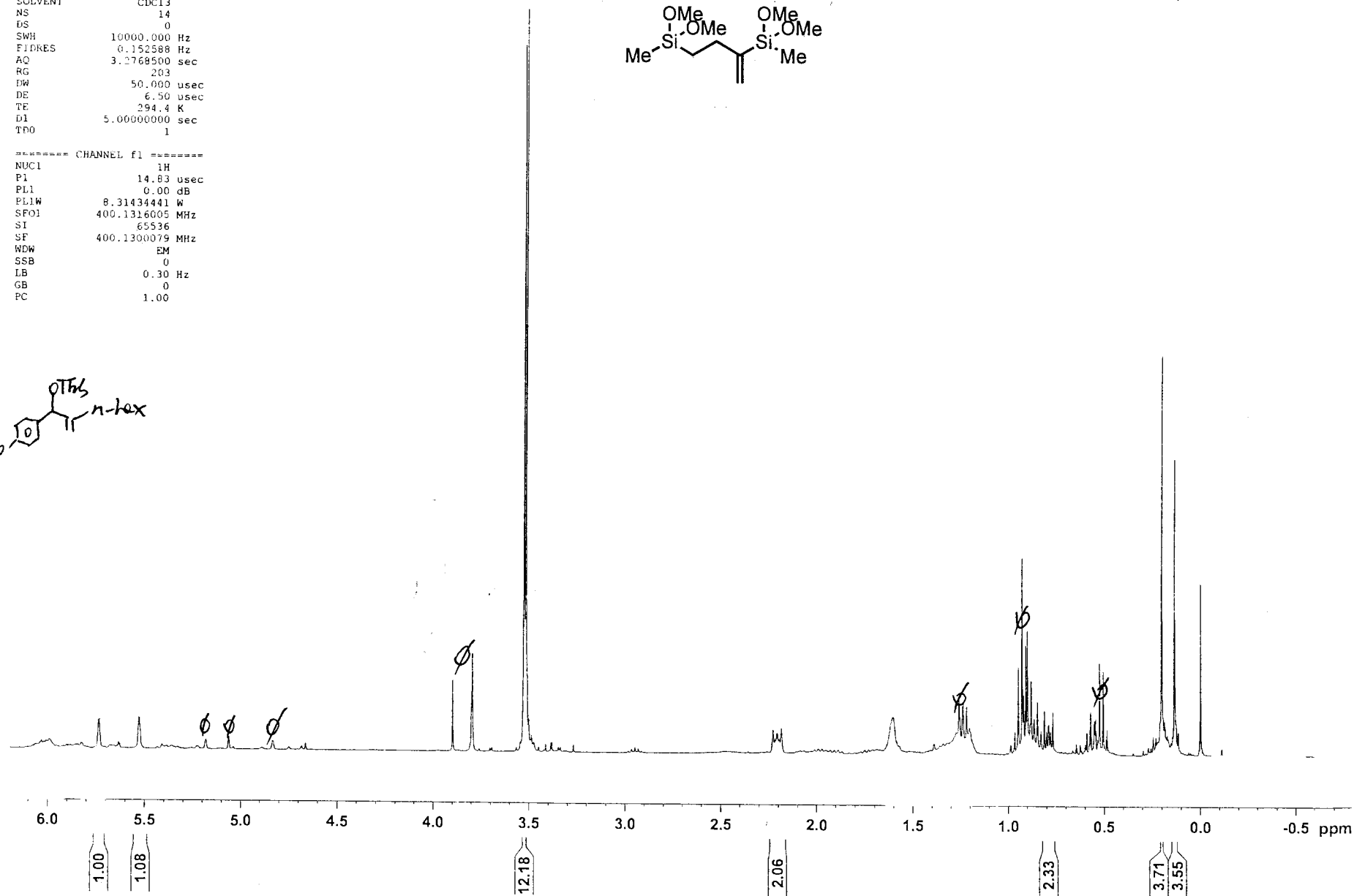
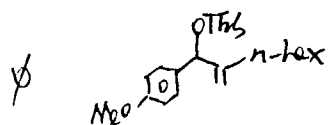
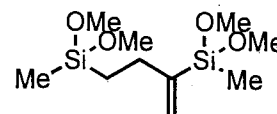
===== CHANNEL f1 =====
NUC1 13C
P1 9.68 usec
PL1 -0.60 dB
PL1W 41.24164963 W
SFO1 100.6228298 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 0.00 dB
PL12 15.66 dB
PL13 15.92 dB
PL2W 8.31434441 W
PL12W 0.22585411 W
PL13W 0.21272963 W
SFO2 400.1316005 MHz
S1 32768
SF 100.6127546 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



NAME hls-2-OMe2homo
EXPNO 1
PROCNO 1
Date_ 20101025
Time_ 21.30
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG zg30
TD 65536
SOLVENT CDC13
NS 14
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 203
DW 50.000 usec
DE 6.50 usec
TE 294.4 K
D1 5.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.83 usec
PL1 0.00 dB
PL1W 8.31434441 W
SFO1 400.1316005 MHz
SI 65536
SF 400.1300079 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





```

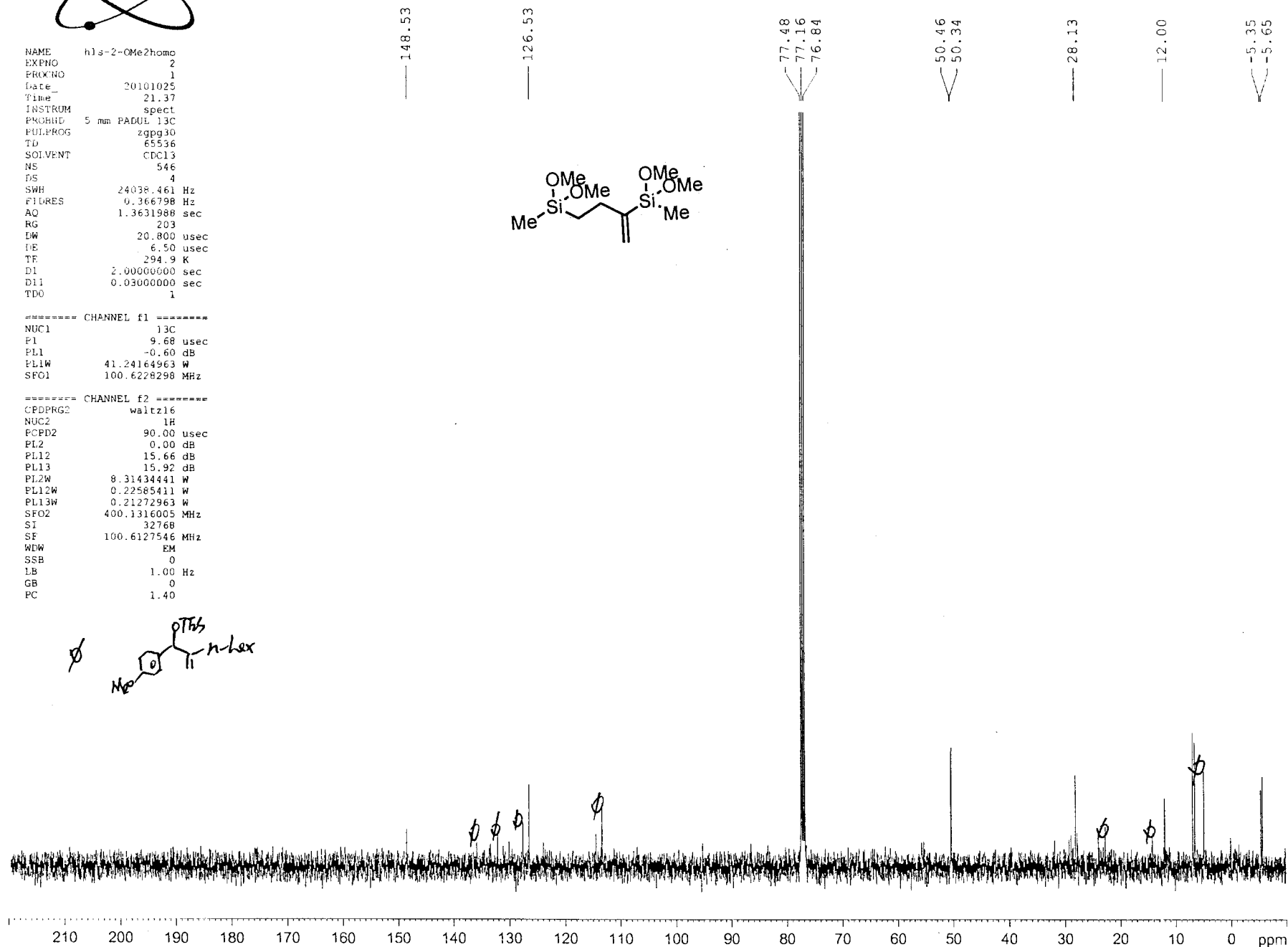
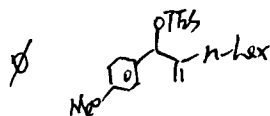
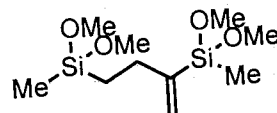
NAME      h1s-2-OMe2homo
EXPNO     2
PROCNO    1
Date_     20101025
Time      21.37
INSTRUM   spect
PROBHD    5 mm PADUL13C
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         546
DS         4
SWH        24038.461 Hz
FIDRES     0.366798 Hz
AQ         1.3631988 sec
RG         203
DW         20.800 usec
DE         6.50 usec
TE         294.9 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
  
```

```

===== CHANNEL f1 =====
NUC1       13C
P1         9.68 usec
PL1        -0.60 dB
PL1W       41.24164963 W
SFO1       100.6228298 MHz
  
```

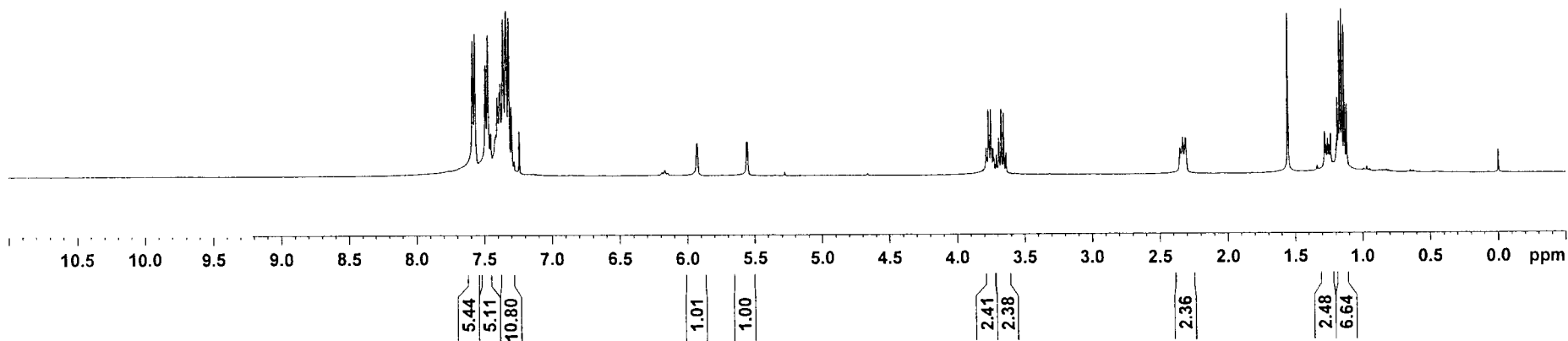
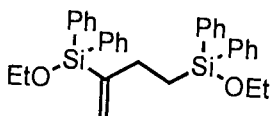
```

===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
PCPD2      90.00 usec
PL2         0.00 dB
PL12       15.66 dB
PL13       15.92 dB
PL2W       8.31434441 W
PL12W      0.22585411 W
PL13W      0.21272963 W
SFO2       400.1316005 MHz
SI         32768
SF         100.6127546 MHz
WDW         EM
SSB         0
LB          1.00 Hz
GB          0
PC          1.40
  
```



hls-2-26-2-t32
NO 1
OCNO 1
Date 20101009
Time 13.41
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 18
DS 1
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 64
Dw 60.800 usec
DE 6.50 usec
TE 298.5 K
P1 5.00000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SP01 400.1924713 MHz
S1 32768
SF 400.1900218 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME hls-2-26-2-t32
EXPNO 2
PROCNO 1
Date_ 20101009
Time 13.47
INSTRUM spect
PROBHD 5 mm PARBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 101
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 181
LW 20.800 usec
DE 6.50 usec
TE 299.1 K
D1 2.00000000 sec
F11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL2W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
SI 32768
SF 100.6278442 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

149.51
135.31
135.24
134.86
134.75
134.61
130.03
129.90
129.83
129.63
128.52
127.95
127.90
127.76

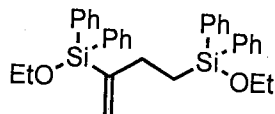
77.48
77.16
76.85

59.72
59.33

29.09

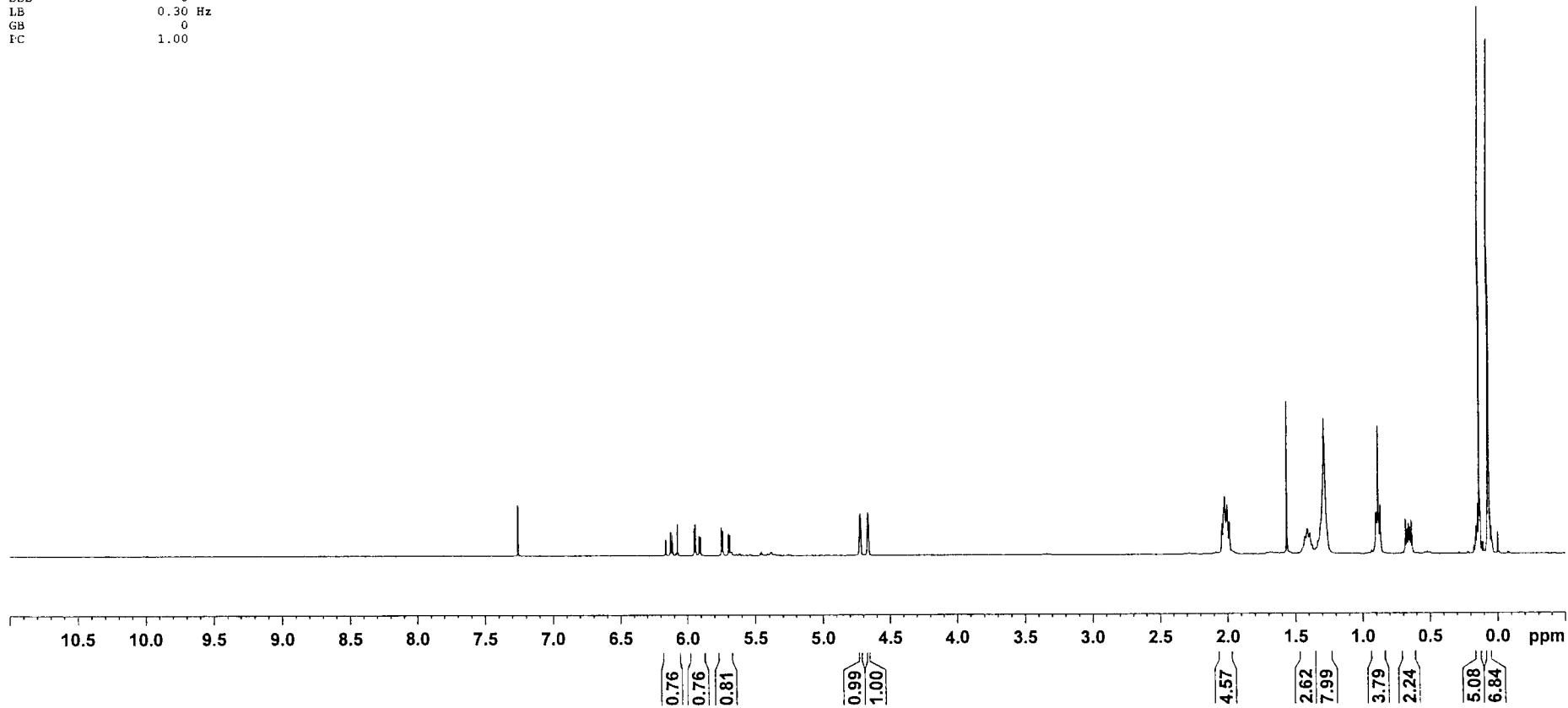
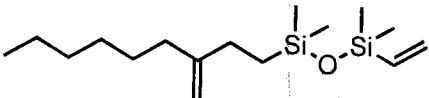
18.49

13.38



NAME hls-2-10-7-t4
EXPNO 1
PROCNO 1
Date_ 20100828
Time 19.36
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 3
DS 2
SWH 8223.685 Hz
FIDRES 0.125483 Hz
AQ 3.9846387 sec
RG 50.8
DW 60.800 usec
DE 6.50 usec
TE 297.9 K
D1 10.00000000 sec
TD0 1

----- CHANNEL f1 -----
NUC1 1H
P1 14.00 usec
PL1 -1.00 dB
PL1W 13.56617069 W
SFO1 400.1924713 MHz
SI 32768
SF 400.1900142 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





NAME hls-2-10-7-t4
EXPNO 2
PROCNO 1
Date_ 20100828
Time_ 19.39
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 31
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 181
DW 20.800 usec
DE 6.50 usec
TE 298.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.90 usec
PL1 -2.00 dB
PL1W 55.33689499 W
SFO1 100.6379183 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 -1.00 dB
PL12 15.16 dB
PL13 18.62 dB
PL12W 13.56617069 W
PL12W 0.32844096 W
PL13W 0.14806664 W
SFO2 400.1916008 MHz
S1 32768
SF 100.6278419 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

— 152.77

— 139.79

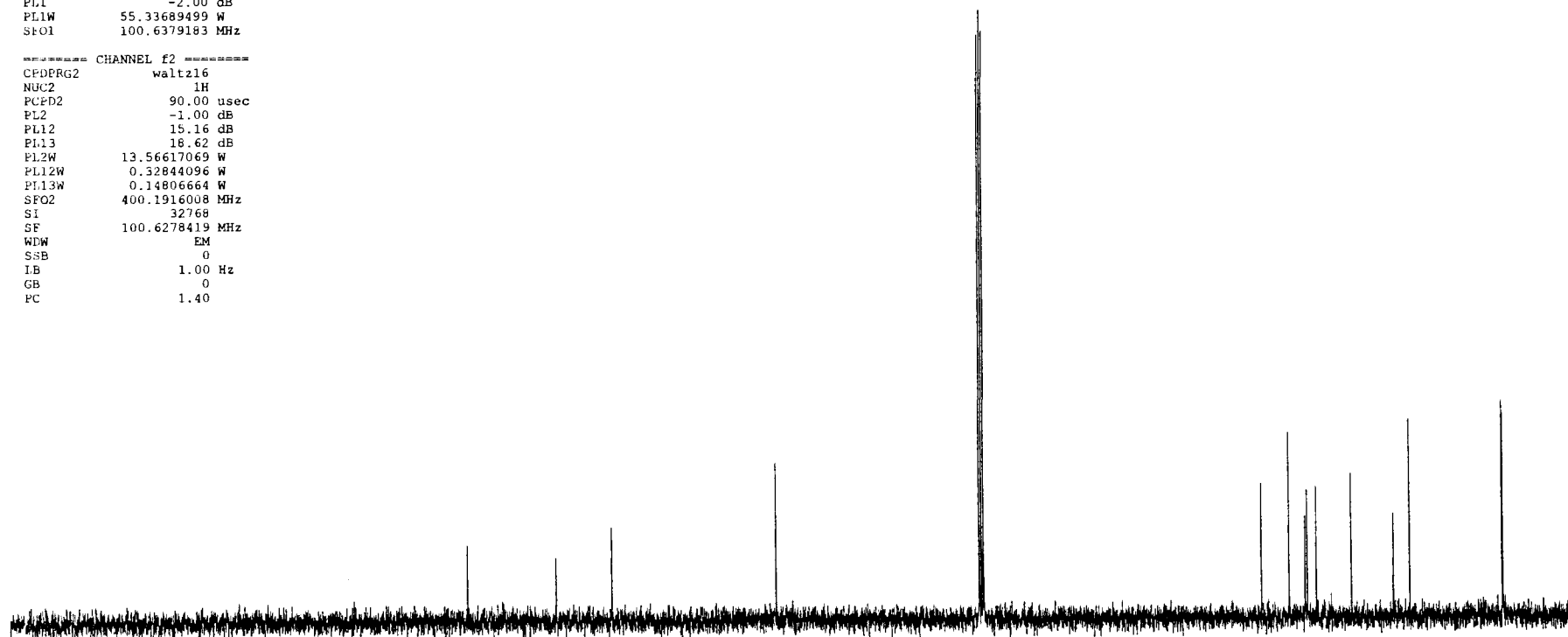
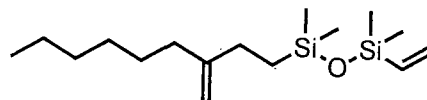
— 131.67

— 107.41

77.48
77.16
76.84

36.00
31.95
29.66
29.60
29.30
27.97
22.80
16.67
16.63
14.25

0.57
0.45
0.43



210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm

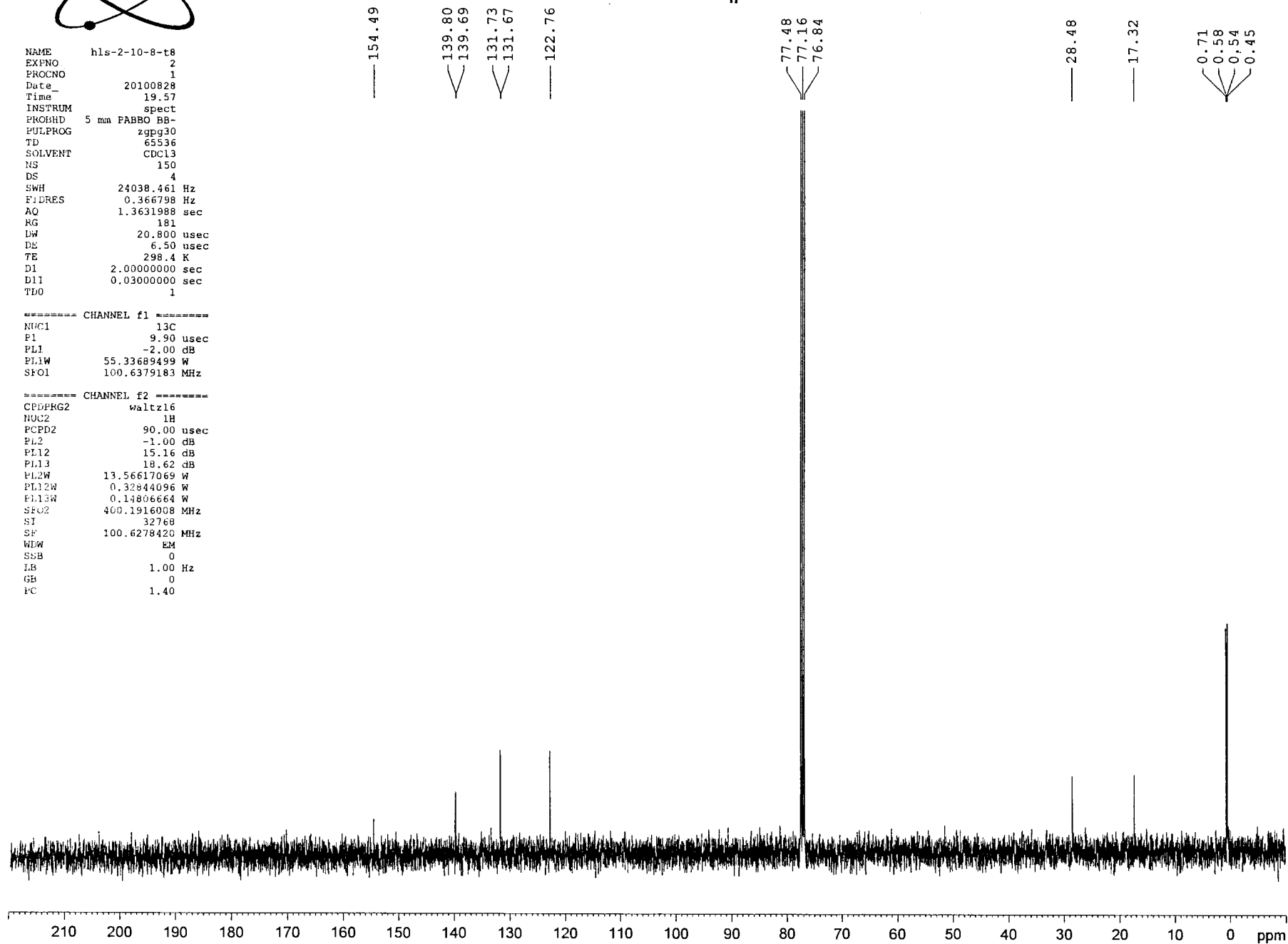
NAME	hls-2-10-8-t8	
EXPNO	2	
PROCNO	1	
Date_	20100828	
Time	19.57	
INSTRUM	spect	
PROBHD	5 mm FABBO BB-	
PULPROG	zgpg30	
TD	65536	
SOLVENT	CDC13	
NS	150	
DS	4	
SWH	24038.461	Hz
FIDRES	0.366798	Hz
AQ	1.3631988	sec
RG	181	
LW	20.800	usec
DE	6.50	usec
TE	298.4	K
D1	2.00000000	sec
D11	0.03000000	sec
TD0	1	

```
===== CHANNEL f1 =====
NUC1                13C
P1                  9.90 usec
PL1                 -2.00 dB
PL1W                55.33689499 W
SFO1                100.6379183 Mhz
```

```

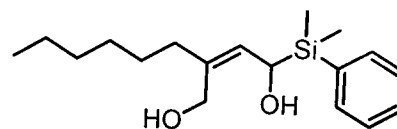
===== CHANNEL f2 =====
CPDRFG2      wait1216
NOC2          1H
PCPD2        90.00 usec
PL2          -1.00 dB
PL12         15.16 dB
PL13         18.62 dB
PL2W         13.56617069 W
PL12W        0.32844096 W
PL13W        0.14806664 W
SF02         400.1916008 MHz
ST           32768
SF           100.6278420 MHz
WDW          EM
SSB          0
LB           1.00 Hz
GB           0
FC           1.40

```

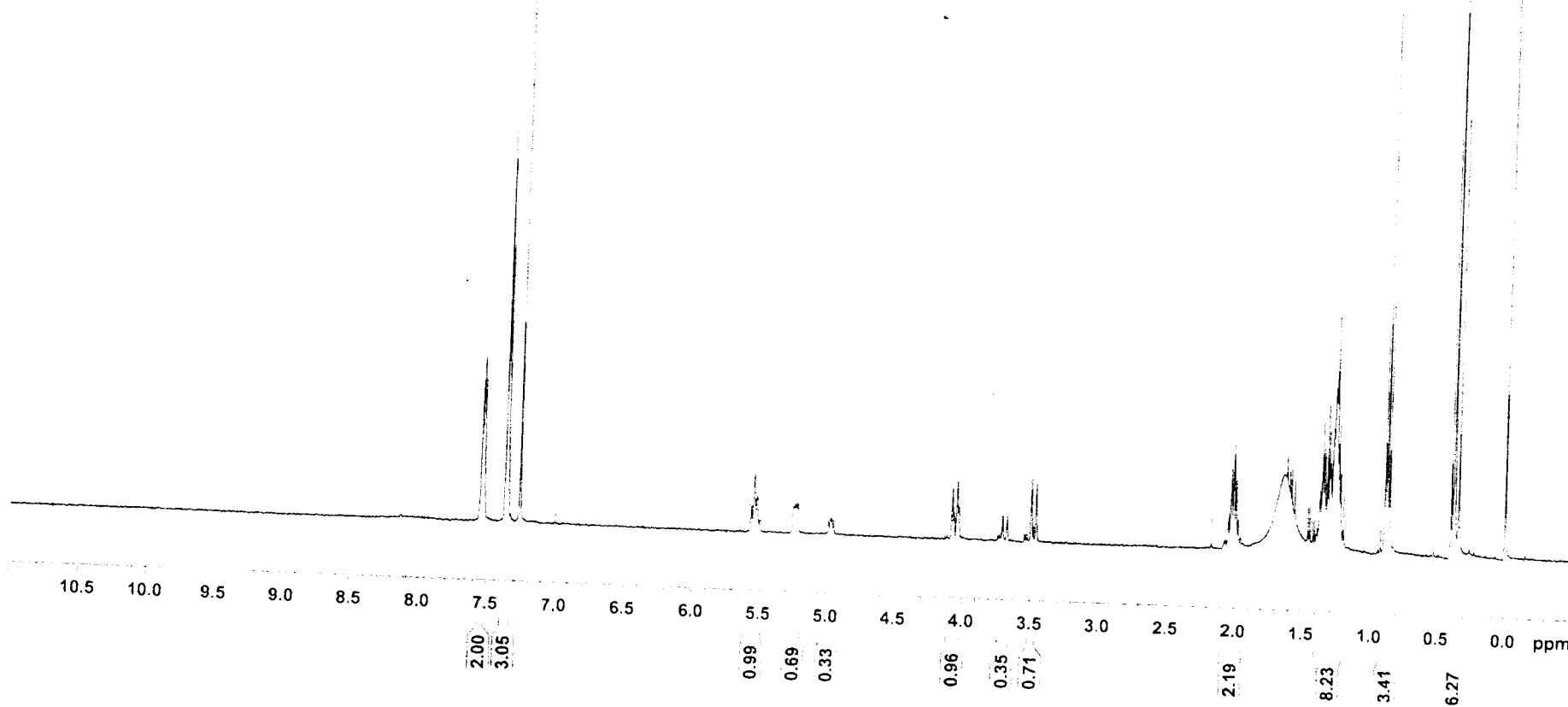


NAME: 118-2-36-2-143
EXPNO: 1
PROCNO: 1
DATE_: 20101123
TIME: 21.14
INSTRUM: spect
PROBHD: 5 mm PABUL 13C
PULPROG: zgpg30
TD: 65536
SOLVENT: CDCl3
NS: 9
DS: 0
SWH: 10100.000 Hz
FIDRES: 0.151582 Hz
AQ: 3.2768500 sec
RG: 203
RW: 50.000 usec
DE: 1.50 usec
TE: 294.2 K
SI: 5.0000000 sec
TDC: 1

===== CHANNEL f1 =====
NUC1: 13C
P1: 14.00 usec
PL1: 0.00 dB
PL1W: 8.31434441 W
SP01: 400.1316000 MHz
SI: 65536
SF: 400.1300385 MHz
WDW: EM
GB: 0
LB: 0.40 Hz
GB: 0
PC: 1.00



$Z:E = 67:33$





```
NAME      hls-2-39-2-t43
EXPNO     2
PROCNO    1
Date_     20101201
Time      22.14
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   zgpg30
TD        65536
SOLVENT   CDCl3
NS        11914
DS        4
SWH       24038.461 Hz
FIDRES    0.366798 Hz
AQ        1.3631988 sec
RG        161
DW        20.800 usec
DE        6.50 usec
TE        299.1 K
D1        2.00000000 sec
D11       0.03000000 sec
TD0       1
```

```
===== CHANNEL f1 =====
NUC1      13C
P1        9.90 usec
PL1       -2.00 dB
PL1W      55.33689499 W
SFO1      100.6379183 MHz
```

```
===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
PCPD2     90.00 usec
PL2       -1.00 dB
PL12      15.16 dB
PL13      18.62 dB
PL2W      13.56617069 W
PL12W     0.32844096 W
PL13W     0.14806664 W
SFO2      400.1916008 MHz
SI        32768
SF        100.6278420 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.40
```

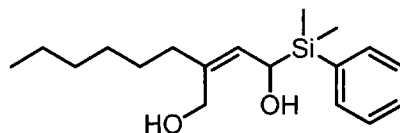
138.89
137.08
136.55
133.83
133.79
129.48
129.25
129.18
128.72
127.99

88.65
84.55
77.48
77.16
76.84

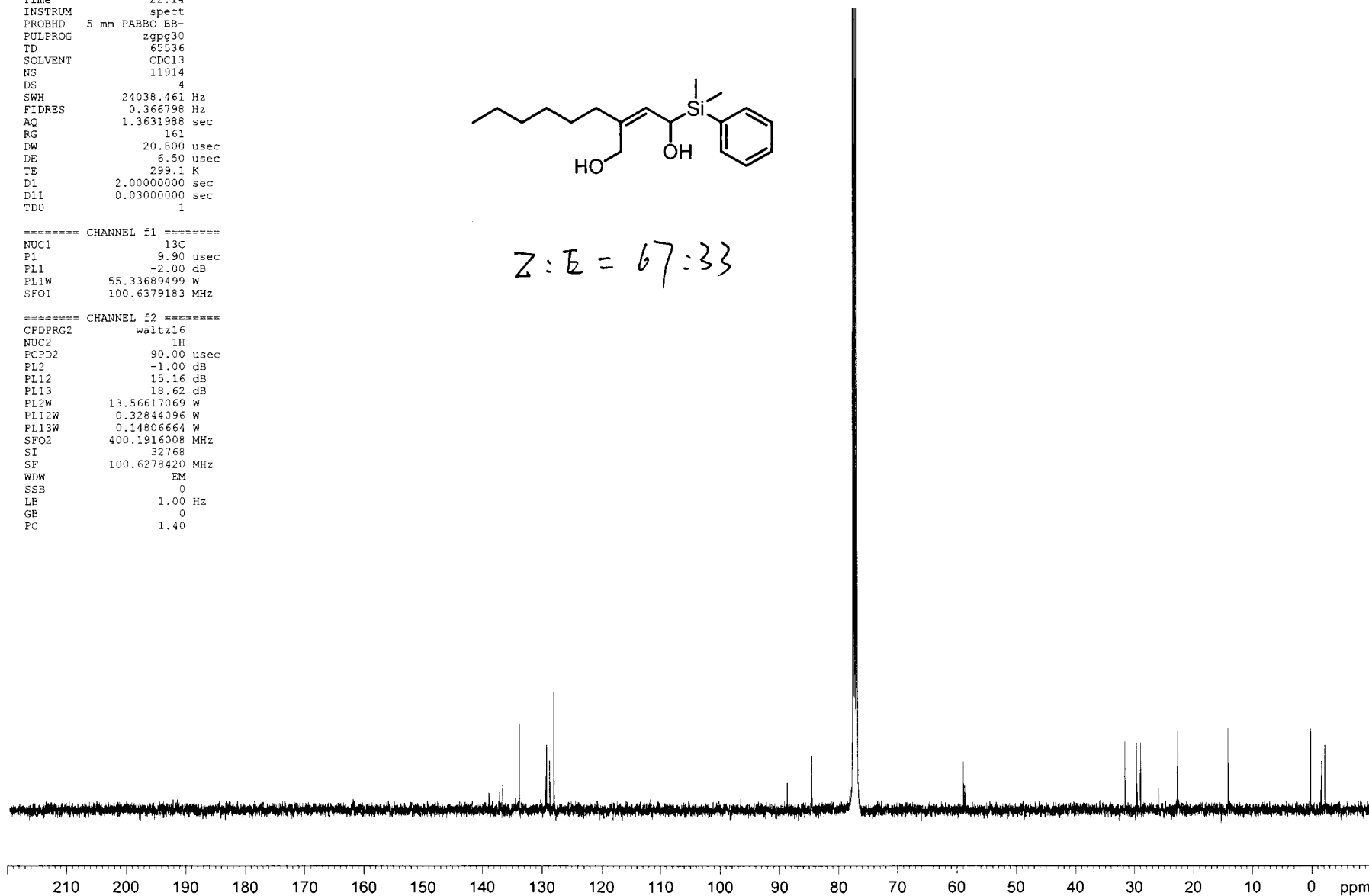
58.92
58.67

31.58
29.64
29.50
28.96
28.91
25.88
22.76
22.61
14.13

0.14
-1.54
-1.67
-2.24



Z:E = 67:33





```

NAME his-2-39-2-t43
EXPNO 3
PROCNO 1
Date_ 20101122
Time 21.32
INSTRUM spect
PROBHD 5 mm PADUL 13C
PULPROG dept135
TD 65536
SOLVENT CDC13
NS 1060
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631988 sec
RG 203
DW 20.800 usec
DE 6.50 usec
TE 295.7 K
CNST2 145.0000000
SI 2.00000000 sec
E2 0.00344828 sec
D12 0.00002000 sec
TDO 1

```

```

===== CHANNEL f1 =====
NUC1 13C
P1 9.68 usec
P2 19.36 usec
PL1 -0.60 dB
PL1W 41.24164963 W
SFO1 100.6228298 MHz

```

```

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P3 14.83 usec
P4 29.66 usec
PCPD2 90.00 usec
PL2 0.00 dB
PL12 15.66 dB
PL2W 8.31434441 W
PL12W 0.22585411 W
SFO2 400.1316005 MHz
SI 32768
SF 100.6127550 MHz
W1W EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

```

133.78
129.24
128.73
127.98

84.57

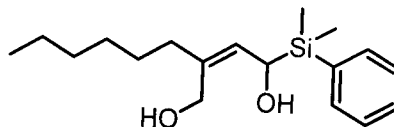
77.36

58.90
58.63

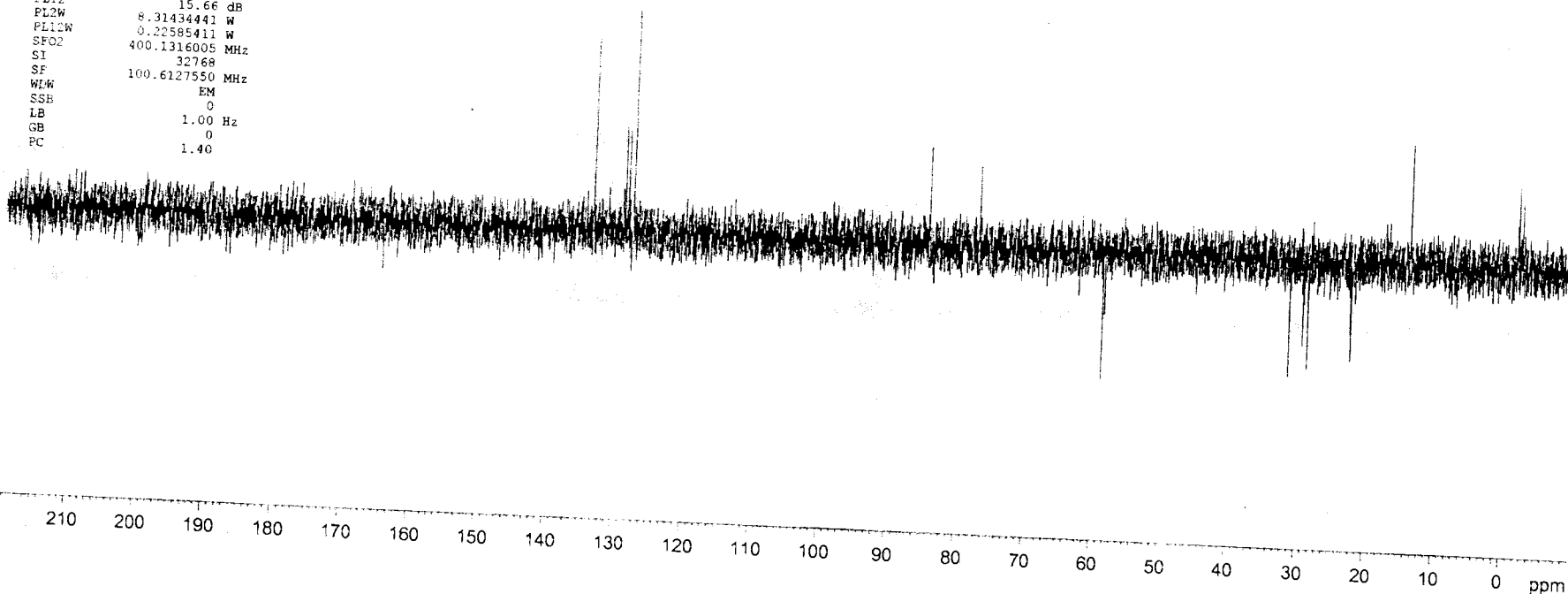
31.58
29.64
28.91
22.72
22.62

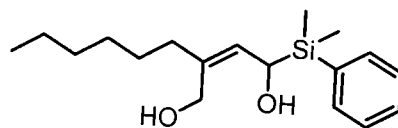
14.14

1.68
2.25

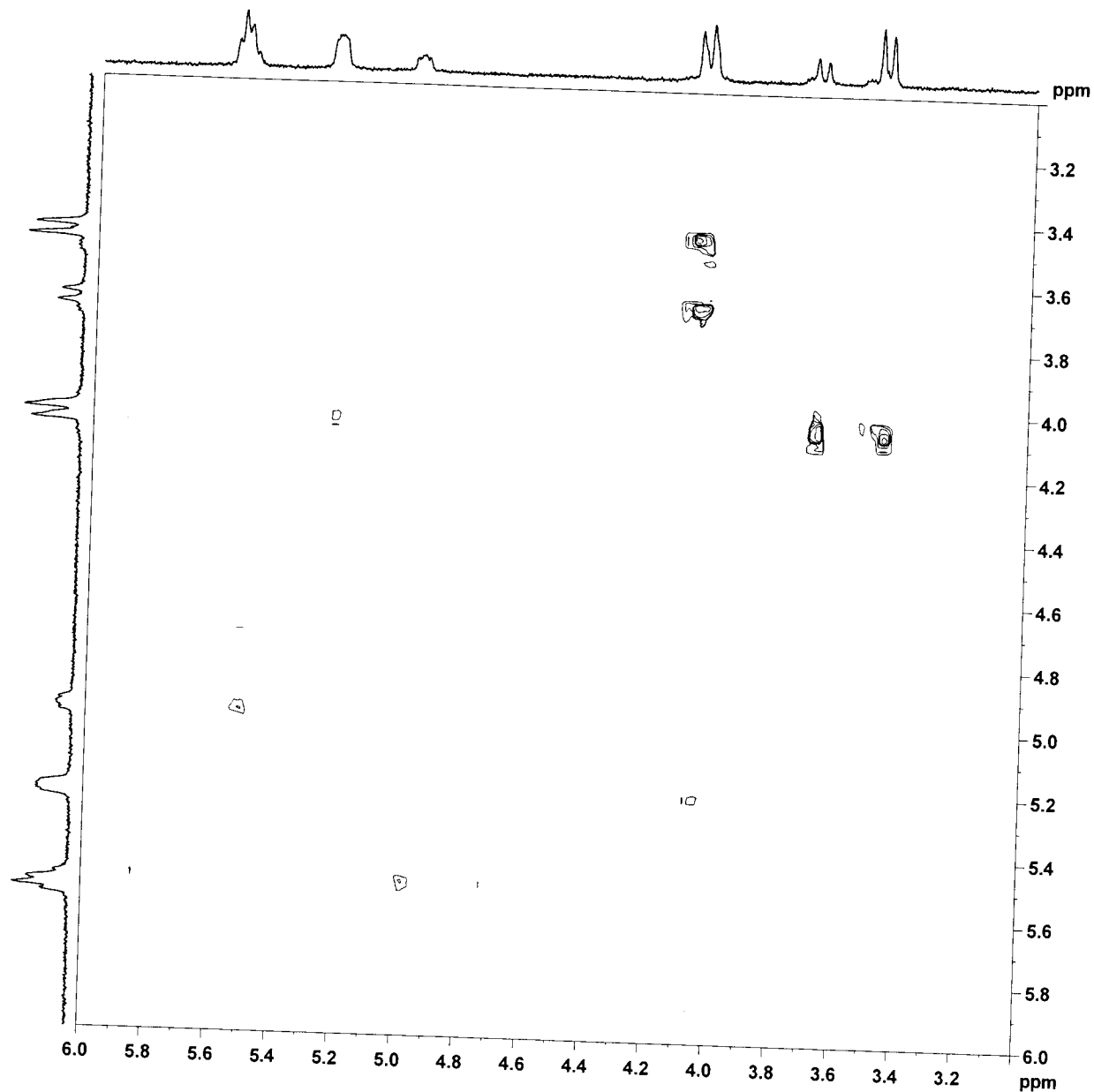
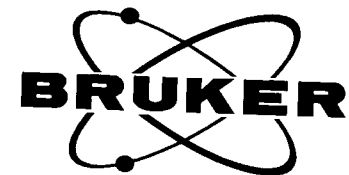


Z:E = 67:33





Z:E = 67:33



```

NAME      hls-2-39-2-t43
EXPNO     6
PROCNO    1
Date_     20101124
Time      12.29
INSTRUM   spect
PROBHD    5 mm PABBO BB-
PULPROG   noesyph
TD        2048
SOLVENT   CDCl3
NS        16
DS        4
SWH       4084.967 Hz
FIDRES    1.994613 Hz
AQ        0.2507252 sec
RG        64
DW        122.400 usec
DE        6.50 usec
TE        296.4 K
D0        0.00010456 sec
D1        2.00000000 sec
D8        0.30000001 sec
IN0       0.00024475 sec
  
```

```

===== CHANNEL f1 =====
NUC1      1H
P1        14.00 usec
PL1       -1.00 dB
PL1W      13.56617069 W
SFO1      400.1918421 MHz
ND0       1
TD        55
SFO1      400.1918 MHz
FIDRES    74.283272 Hz
SW        10.209 ppm
FnMODE    States-TPPI
SI        1024
SF        400.1900131 MHz
WDW       QSINE
SSB       2
LB        0.00 Hz
GB        0
PC        1.00
SI        1024
MC2       States-TPPI
SF        400.1900128 MHz
WDW       QSINE
SSB       2
LB        0.00 Hz
GB        0
  
```