

Exploiting Hidden Symmetry in Natural Products: Total Syntheses of Amphidinolides C and F

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Electronic Supplementary Information: NMR Spectra

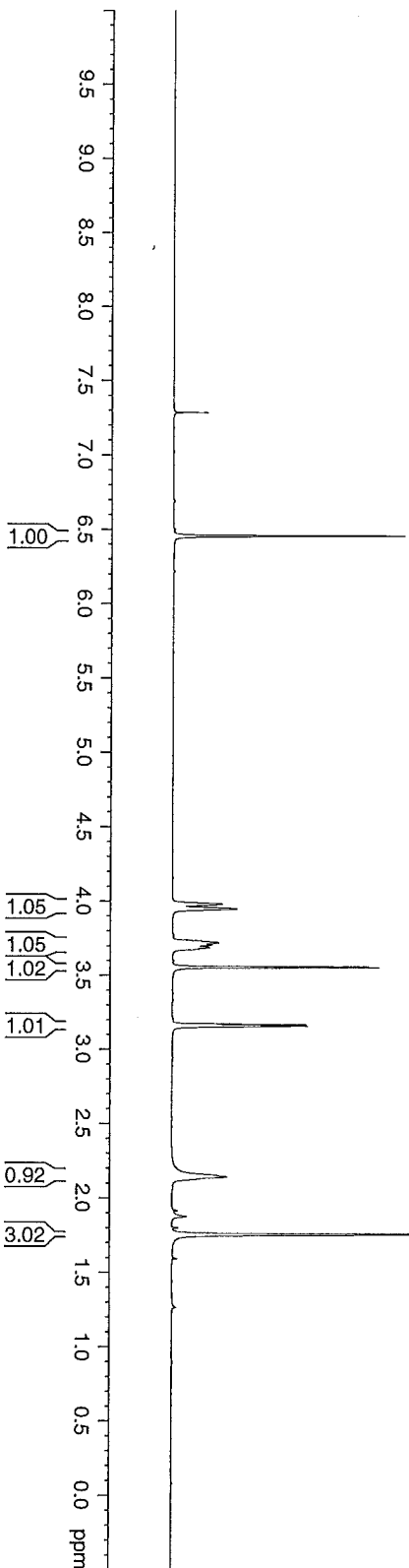
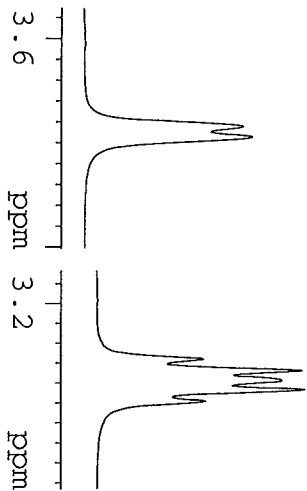
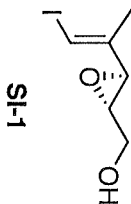
Exploiting Hidden Symmetry in Natural Products: Total Syntheses of Amphidinolides C and F

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Epoxide

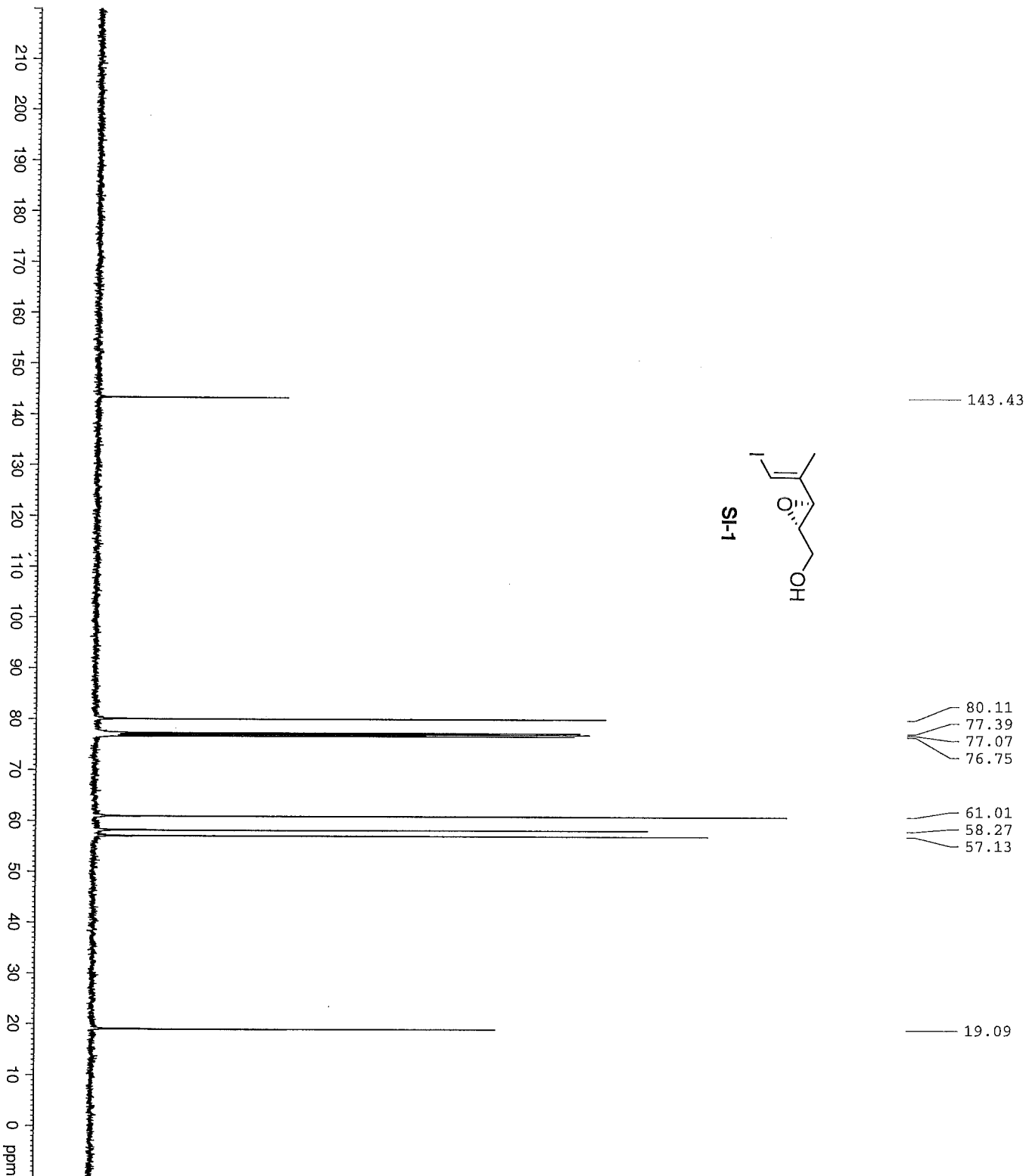
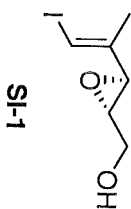
- 7.286
- 6.457
- 3.981
- 3.949
- 3.733
- 3.719
- 3.708
- 3.687
- 3.677
- 3.558
- 3.553
- 3.172
- 3.166
- 3.161
- 3.157
- 3.151
- 2.142
- 1.757
- 1.755



```

Current Data Parameters
NAME      SUM-IT53-Epoxi-de
EXPNO     1
PROCNO    1
DI        /n
USER      subham
F2 - Acquisition Parameters
Date_     20081022
Time      0.42
INSTRUM   DPX400
PROBHD    5 mm BBO BB-1H
PULPROG   zg30
TD        32768
SOLVENT   CDCl3
NS        32
DS        2
SWH        6410.256 Hz
FIDRES     0.195625 Hz
AQ         2.5559540 sec
RG         512
DW         78.000 usec
DE         6.00 usec
TE         298.2 K
D1         2.00000000 sec
TD0        1
===== CHANNEL f1 =====
NUC1       1H
P1         14.70 usec
PL1        0.00 dB
SFO1       399.9528000 MHz
F2 - Processing parameters
SI         32768
SF         399.9500000 MHz
WDW        EM
SSB        0
LB         0.70 Hz
GB         0
PC         1.00
  
```

Epoxide



Current Data Parameters
 NAME STM-1153-Epoxyde
 EXPNO 3
 PROCNO 1
 DT /s
 USER subham

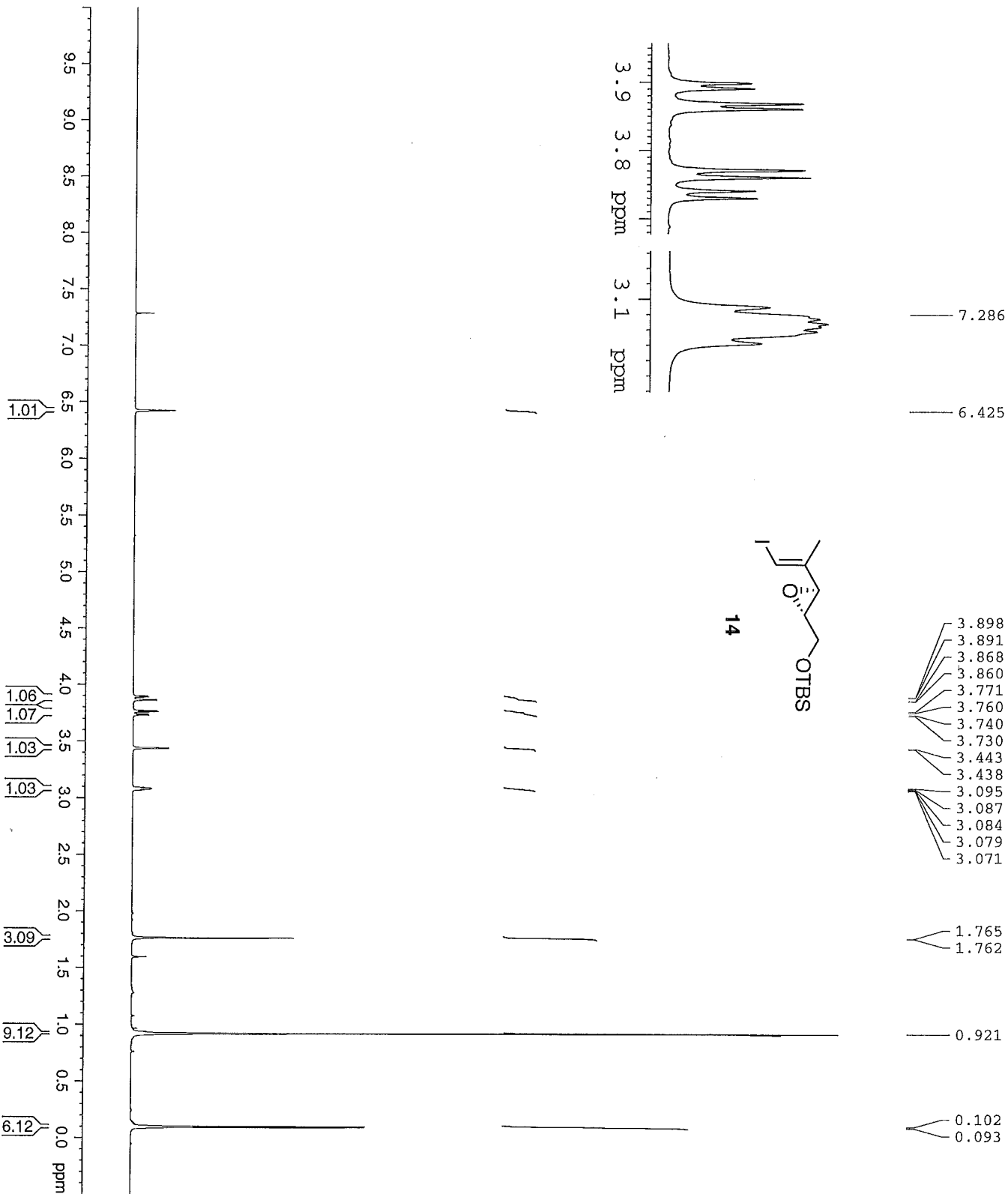
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 Time 1.06
 INSTRUM DPX400
 PROBD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT NS
 DS 1880
 SFR 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 16384
 DW 19.900 usec
 DE 6.00 usec
 TE 298.2 K
 D1 0.15000001 sec
 d11 0.03000000 sec
 DELTA 0.05000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 7.80 usec
 PL1 -3.00 dB
 SFO1 100.5785700 MHz

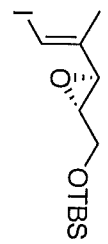
==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 135.00 usec
 PL2 17.40 dB
 PL12 17.40 dB
 PL13 17.40 dB
 SFO2 399.9516000 MHz

F2 - Processing parameters
 SI 12788
 SF 100.5675080 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 FC 1.40

TBS-alcohol



- 3.898
- 3.891
- 3.868
- 3.860
- 3.771
- 3.760
- 3.740
- 3.730
- 3.443
- 3.438
- 3.095
- 3.087
- 3.084
- 3.079
- 3.071

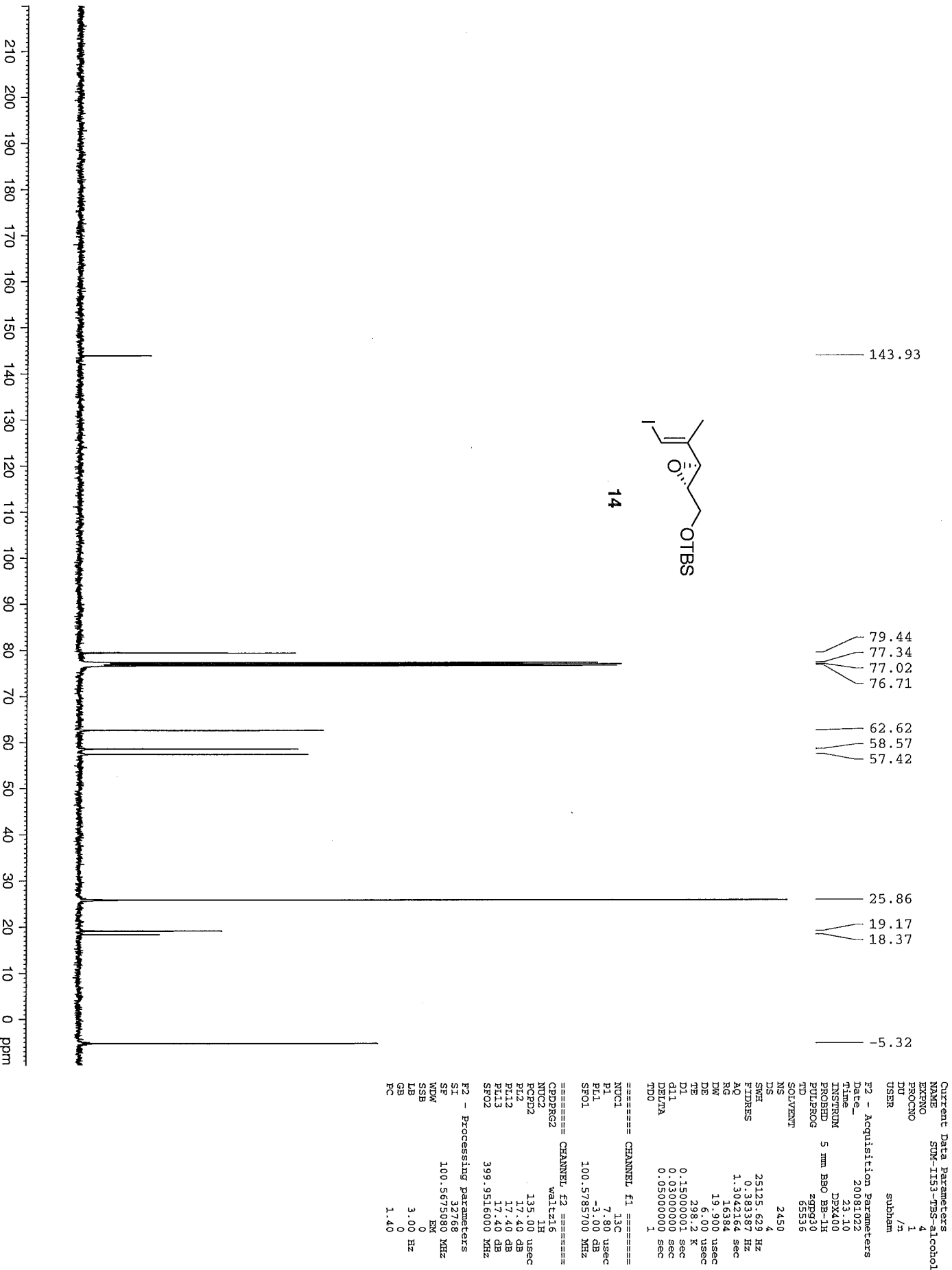


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 NAME SUM-I153-[TBS-alcohol]
 EXPNO 2
 PROCNO 1
 DU /h
 USR subhan

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 Time 22.53
 INSTRUM DPK400
 PROBAD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 6410.256 Hz
 FIDRFS 0.195625 Hz
 AQ 2.5595940 sec
 RG 161.3
 DW 78.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 2.00000000 sec
 TDO 1

==== CHANNEL F1 =====
 NUCL 1H
 P1 14.70 usec
 PL1 0.00 dB
 SF01 399.9528000 MHz

F2 - Processing parameters
 SI 32768
 SF 399.9500000 MHz
 WDW EM
 SSB 0
 GB 0
 PC 1.00



Current Data Parameters
 NAME STM-1153-TBS-alcohol
 EXPRNO 4
 PROCNO 1
 DU /h
 USER subham

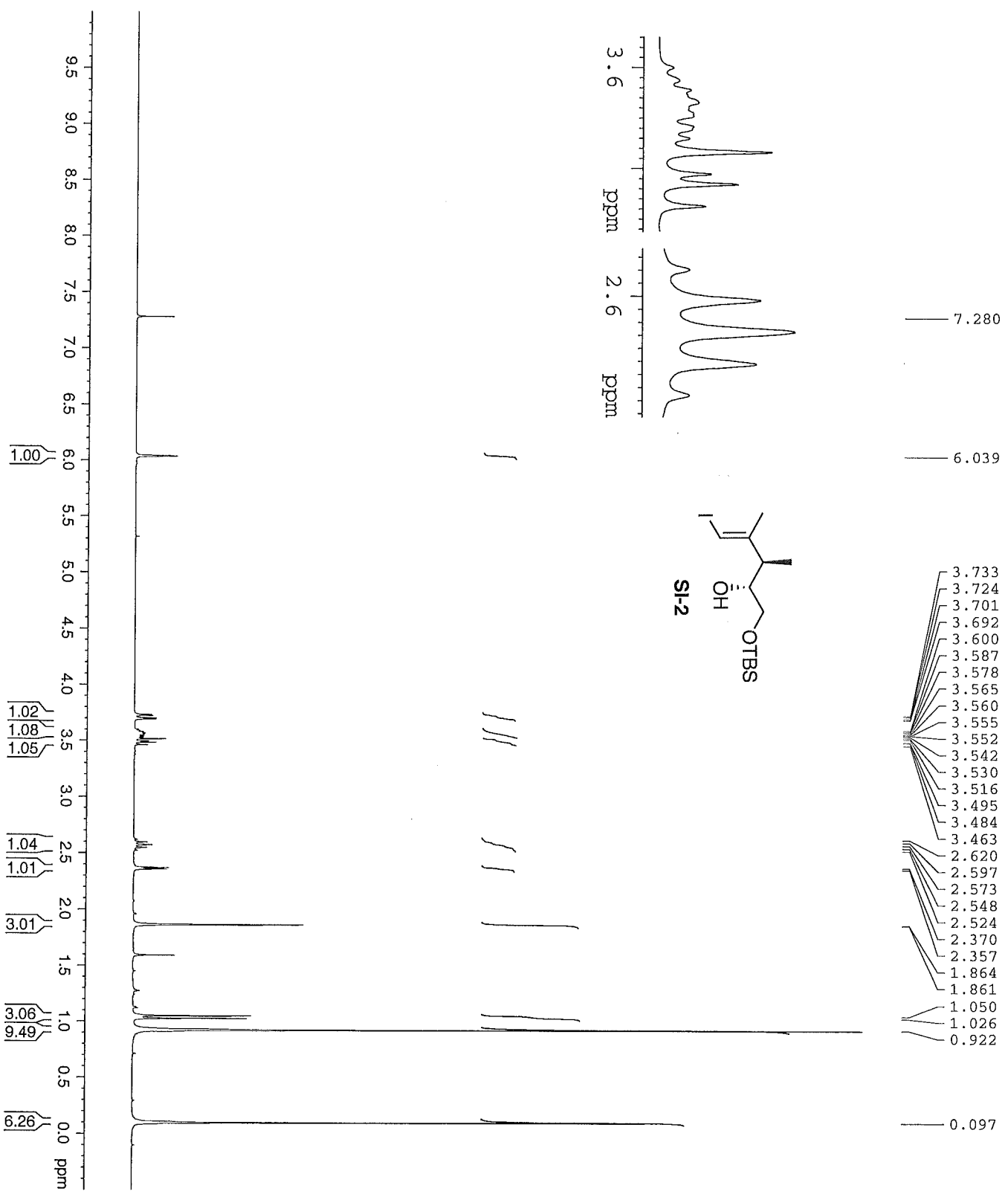
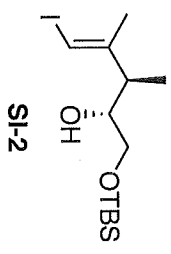
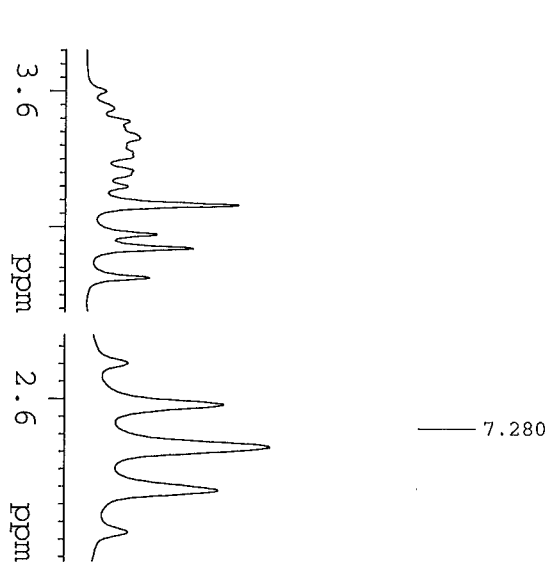
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 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT
 NS 2450
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 16384
 DW 19.900 usec
 DE 6.00 usec
 TE 298.2 K
 D1 0.15000001 sec
 D11 0.03000000 sec
 DELTA 0.05000000 sec
 TDO 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 7.80 usec
 PL 3.00 dB
 SF01 100.5785700 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 135.00 usec
 PL2 17.40 dB
 PL12 17.40 dB
 PL13 17.40 dB
 SF02 399.9516000 MHz

F2 - Processing parameters
 SI 32768
 SF 100.5675080 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

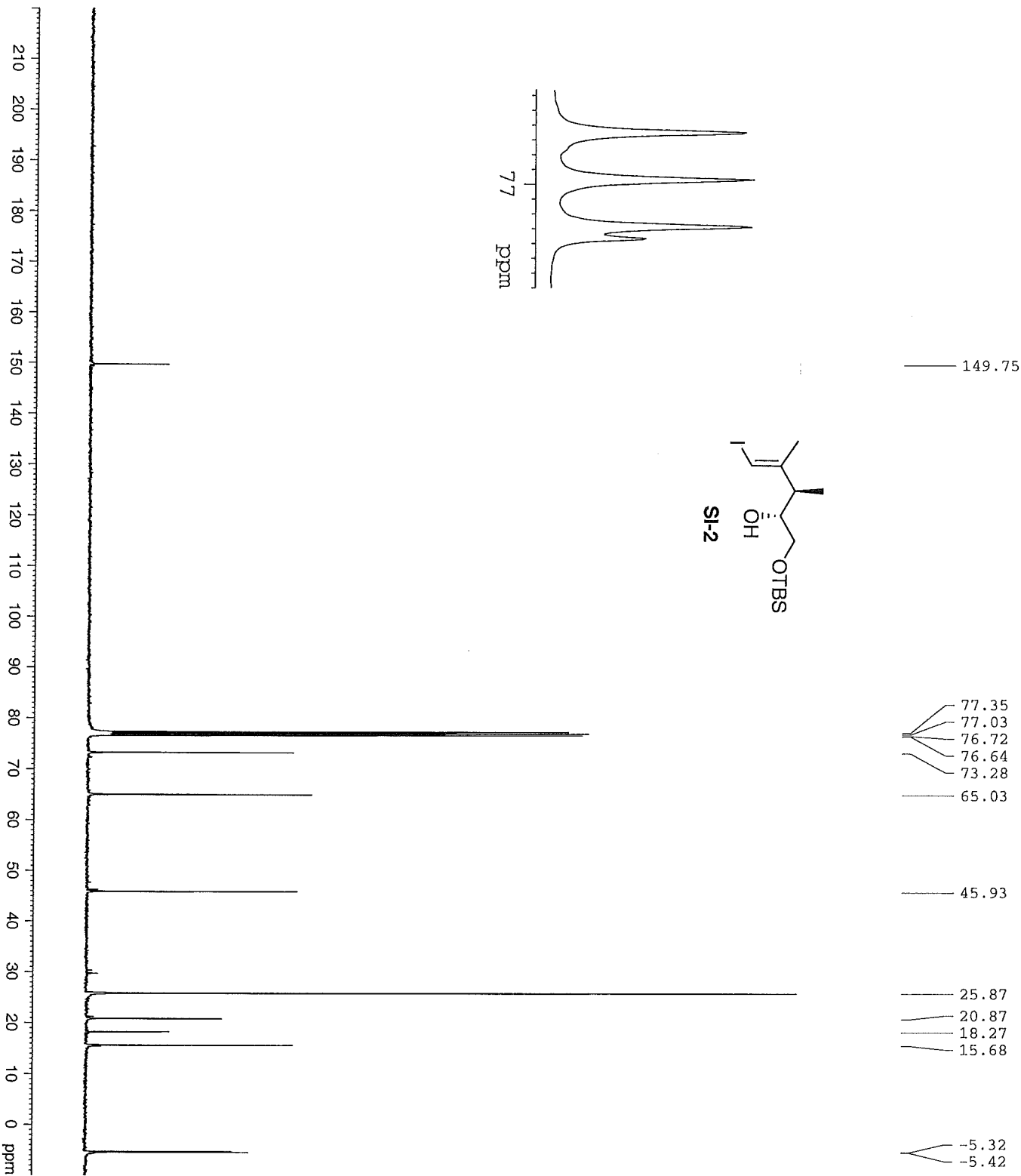
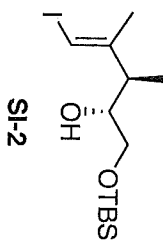
Epoxyde opening



Chemical Shift (ppm)	Integration
0.922	9.49
1.050	3.06
1.861	3.01
2.370	1.01
2.524	1.04
2.573	1.05
2.620	1.08
3.463	1.02
3.552	1.05
3.555	1.08
3.560	1.02
3.578	1.05
3.587	1.08
3.600	1.02
3.692	1.05
3.701	1.08
3.724	1.02
3.733	1.05
6.039	1.00

Current Data Parameters
 NAME: SIM-11-98-Epoxyde opening
 EXPNO: 3
 PROCNO: 1
 DU: 1
 USER: subham
 F2 - Acquisition Parameters
 Date_: 20081028
 Time: 22:51
 INSTRUM: DEX300
 PROBRD: 5 mm QNP 1H/1
 PULPROG: zgpg30
 SOLVENT: CDCl3
 NS: 32768
 DS: 4
 SWH: 4789.272 Hz
 FIDRES: 0.146157 Hz
 AQ: 3.421091 sec
 RG: 327.68
 DW: 104.400 usec
 DE: 6.00 usec
 TE: 298.2 K
 D1: 2.00000000 sec
 TDO: 1
 ===== CHANNEL f1 =====
 NUC1: 1H
 P1: 9.00 usec
 PL1: -3.00 dB
 SFO1: 300.1321009 MHz
 F2 - Processing parameters
 SI: 32768
 SF: 300.1300000 MHz
 WDW: EM
 SSB: 0
 LB: 0.30 Hz
 GB: 0
 RC: 1.00

Epoxide Opening

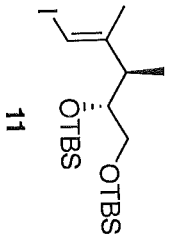
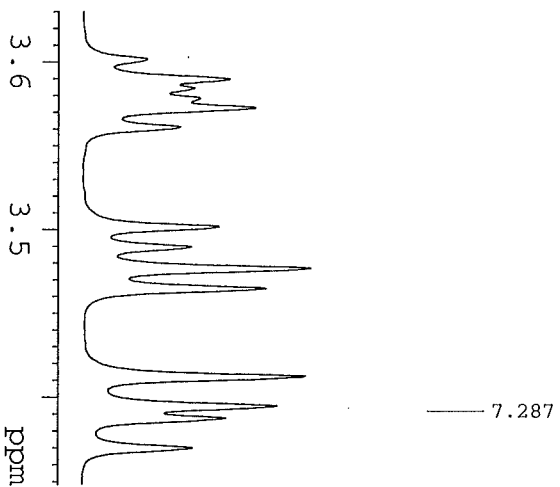


Chemical Shift (ppm)	Integration
149.75	
77.35	
77.03	
76.72	
76.64	
73.28	
65.03	
45.93	
25.87	
20.87	
18.27	
15.68	
5.32	
5.42	

```

Current Data Parameters
NAME      SUM-1147-epoxide opening2
EXPNO     4
PROCNO    4
F2 - Acquisition Parameters
Date_     20081014
Time      23:46
INSTRUM   DSI
PROBHD    5 mm BBO BB-1H
PULPROG   zgpg30
TD         65536
SOLVENT   SOLVENT
NS         6000
DS         2
SFO        251.25629 Hz
FIDRES     0.383287 Hz
AQ         1.3042164 sec
RG         16384
RG         19.900 usec
TM         29.00 usec
TE         29.00 usec
D1         0.15000001 sec
d11        0.03000000 sec
DELTA     0.05000000 sec
PD0        1
===== CHANNEL f1 =====
NUC1       13C
P1         7.80 usec
PL1        -3.00 dB
SFO1       100.5785700 MHz
===== CHANNEL f2 =====
CPDPRG2    waltz16
NUC2       1H
P2         135.00 usec
PL2        17.40 dB
PL12       17.40 dB
PL13       17.40 dB
SFO2       399.9516000 MHz
F2 - Processing parameters
SI         32768
SF         100.5675080 MHz
WDW        EM
SSB        0
GB         0
PC         1.40
  
```


di-TBS ether



3.602
3.590
3.585
3.579
3.573
3.561
3.502
3.490
3.477
3.465
3.413
3.395
3.388
3.370
2.780
2.762
2.751
2.744
2.733
2.715
1.839
1.101
1.083
0.913
0.903
0.070
0.059

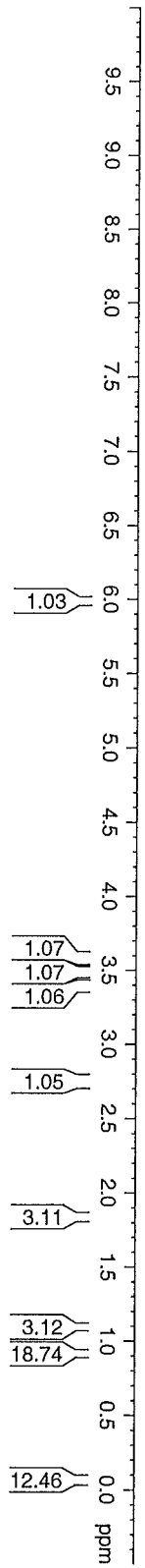
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Current Data Parameters
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PROCNO    1
SUBNAM    subnam
USPR      /A

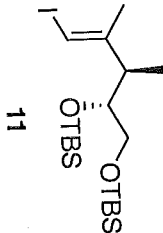
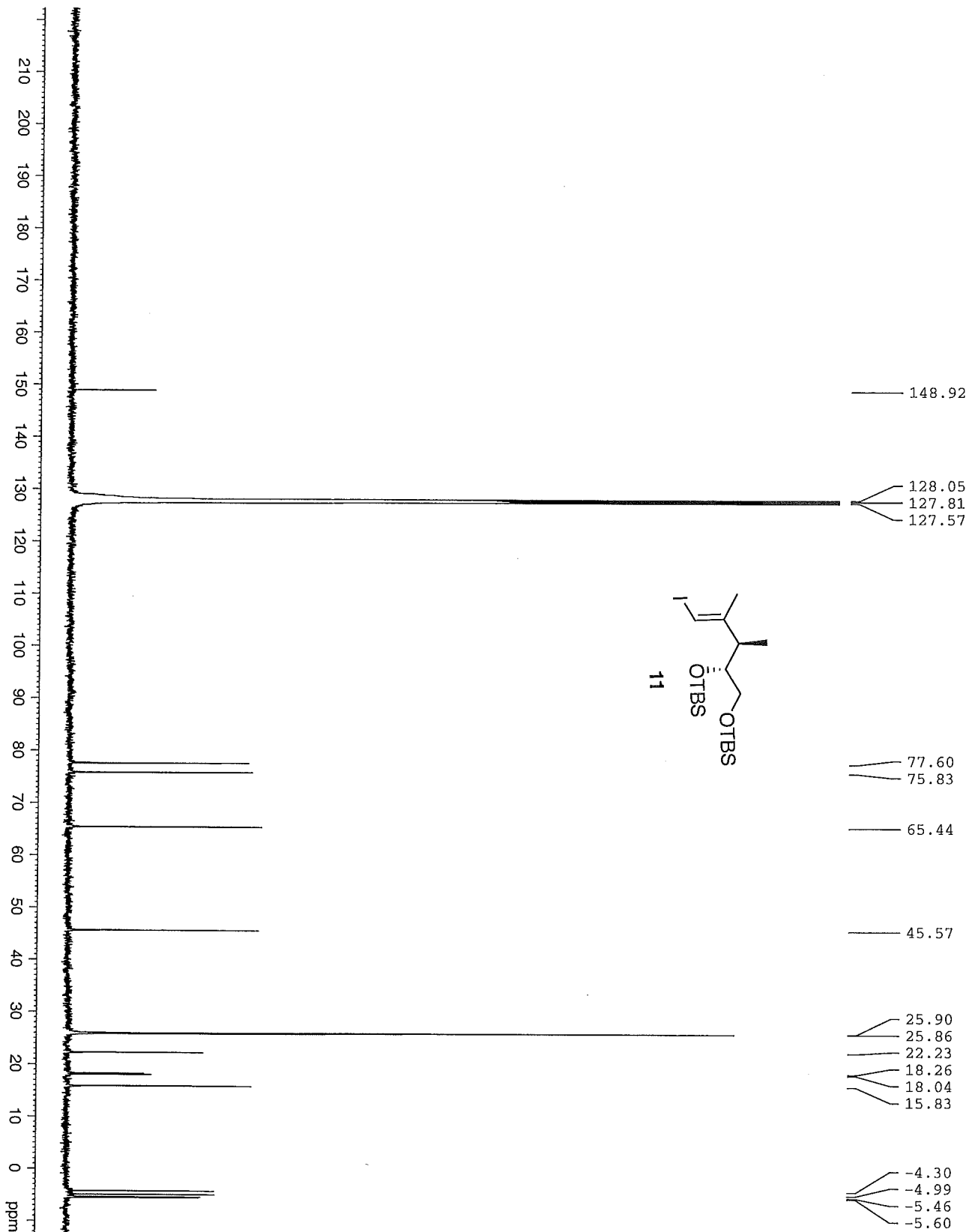
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Date_     20081120
Time      12.16
INSTRUM   DEK400
PROBHD    5 mm BBO BB-1H
PULPROG   zg30
TD         32768
SOLVENT   CDCl3
NS         32
DS         2
SWH        6410.242 Hz
FIDRES     0.195255 Hz
AQ         2.5559540 sec
RG         203.2
DW         78.000 usec
DE         6.00 usec
TE         296.2 K
AQ         2.0000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1       1H
P1         14.70 usec
PL1        0.00 dB
SFO1       399.9528000 MHz

F2 - Processing parameters
SI         32768
SF         399.9500000 MHz
WDW        EM
SSB        0
LB         0.70 Hz
GB         0
PC         1.00
    
```



di-TBS ether



Current Data Parameters
 NAME SUM-11-74-di-TBS et.
 EXNO 3
 PROCNO 1
 DU /n
 USER subham

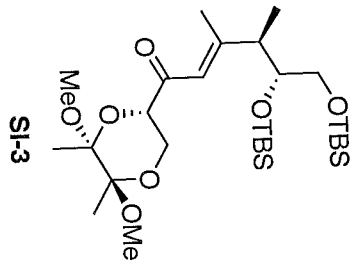
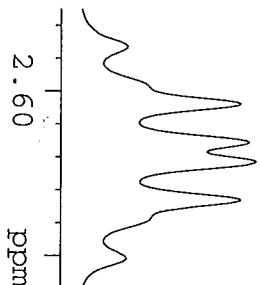
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 Date_ 20081120
 Time 12.33
 INSTRUM DFX400
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT C6D6
 NS 4667
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 16384
 DW 19.900 usec
 DE 6.00 usec
 TE 297.2 K
 D1 0.1500001 sec
 d11 0.0300000 sec
 DELTA 0.0500000 sec
 TD0 1

==== CHANNEL f1 =====
 NUCL 13C
 P1 7.80 usec
 PL1 -3.00 dB
 SFO1 100.5785700 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUCL 1H
 PCPD2 135.00 usec
 PL2 17.40 dB
 PL12 17.40 dB
 PL13 17.40 dB
 SFO2 399.9516000 MHz

F2 - Processing parameters
 SI 32768
 SF 100.5675080 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

- 7.285
- 6.556
- 4.245
- 4.234
- 4.230
- 4.219
- 4.123
- 4.108
- 4.095
- 4.080
- 3.920
- 3.909
- 3.892
- 3.881
- 3.734
- 3.721
- 3.706
- 3.693
- 3.529
- 3.516
- 3.503
- 3.490
- 3.468
- 3.452
- 3.442
- 3.426
- 3.340
- 3.306
- 2.614
- 2.596
- 2.585
- 2.579
- 2.567
- 2.549
- 2.235
- 2.233
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- 0.902
- 0.891
- 0.074
- 0.070
- 0.045
- 0.042

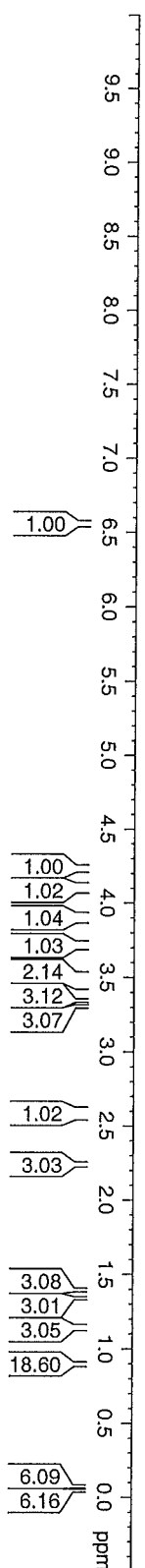


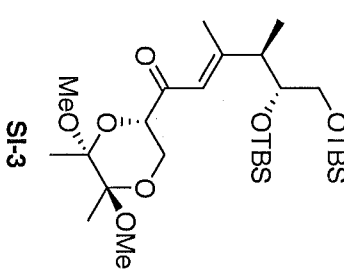
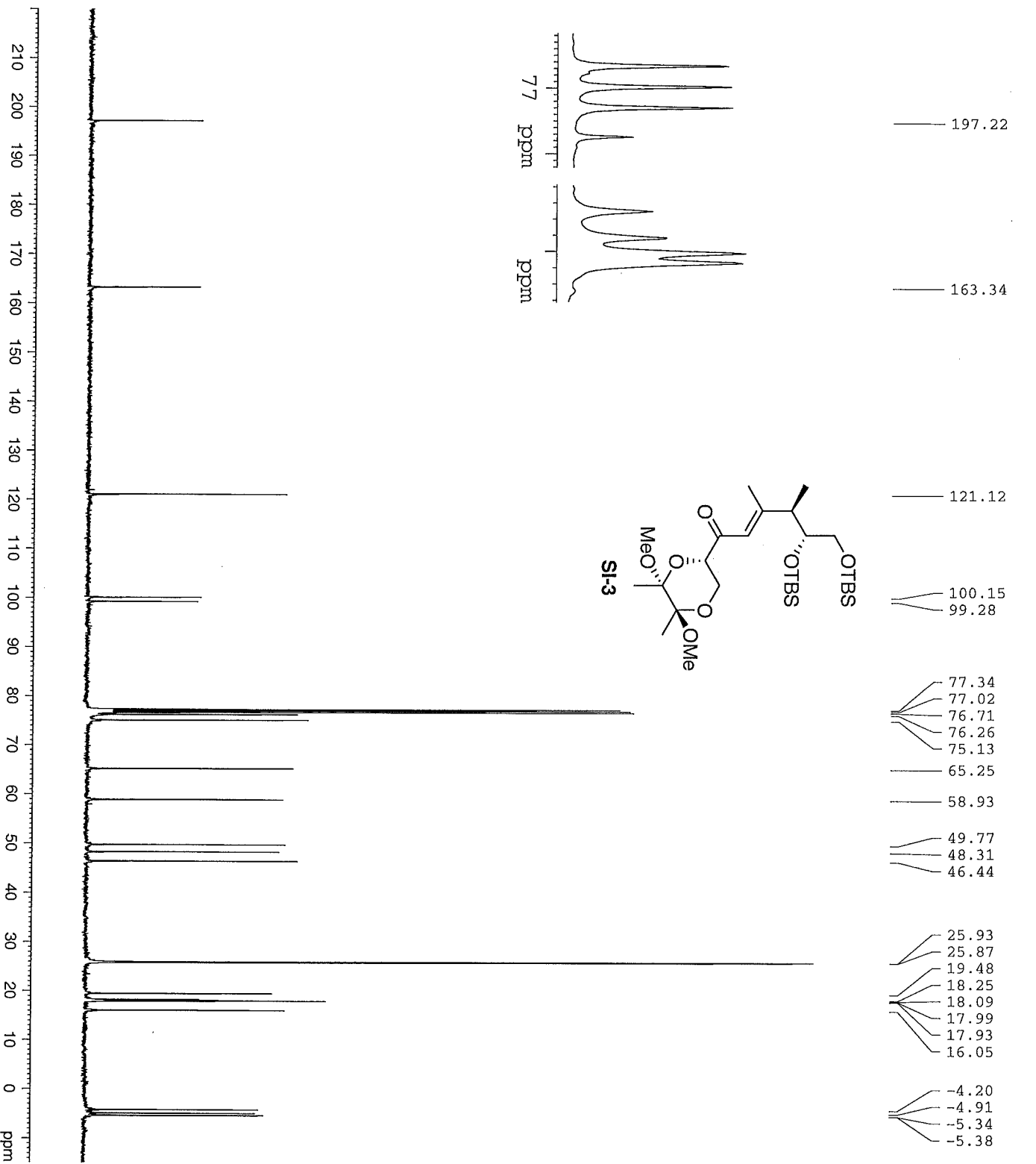
Current Data Parameters
 NAME SUM-III-16-Enone
 EXPRNO 4
 PROCNO 1
 DU /r
 USER subham

F2 - Acquisition Parameters
 Date_ 20090211
 Time 22:16
 INSTRUM DPX400
 PROBRD 5 mm BBO BR-1H
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SFO 6410.256 Hz
 FIDRES 0.198625 Hz
 AQ 2.5359540 sec
 RG 114
 DM 78.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 2.00000000 sec
 TDO 1

==== CHANNEL f1 =====
 NUCL1 1H
 P1 14.70 usec
 PL1 0.00 dB
 SFO1 399.9528000 MHz

F2 - Processing parameters
 SI 32768
 SF 399.9500000 MHz
 WDM 0
 SSB 0
 LB 0.70 Hz
 GB 0
 PC 1.00





197.22	121.12	100.15	99.28	77.34	77.02	76.71	76.26	75.13	65.25	58.93	49.77	48.31	46.44	25.93	25.87	19.48	18.25	18.09	17.99	17.93	16.05	-4.20	-4.91	-5.34	-5.38
--------	--------	--------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

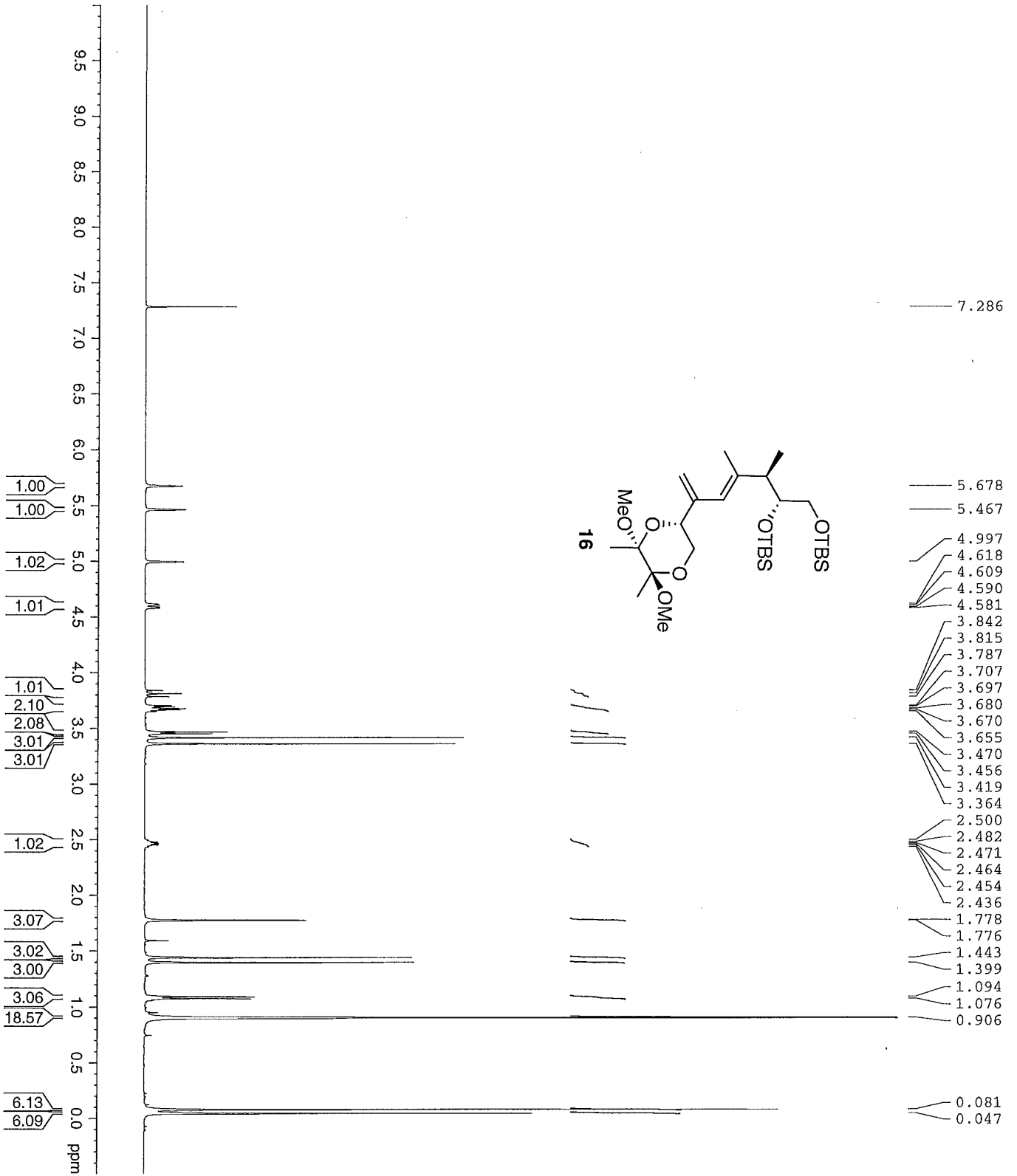
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 NAME: SDW-III-16-Enone
 EXPNO: 9
 PROCNO: 1
 DT: /a
 USER: subham

F2 - Acquisition Parameters
 Date_: 20090211
 Time: 22.35
 INSTRUM: DFK400
 PROBHD: 5 mm BBO BB-1H
 PULPROG: zgpg30
 TD: 65536
 SOLVENT: NS
 NS: 5696
 DS: 4
 SWH: 25125.629 Hz
 FIDRES: 0.383387 Hz
 AQ: 1.3042164 sec
 RG: 16384
 DW: 19.900 usec
 DE: 6.00 usec
 TE: 298.2 K
 D1: 0.15000001 sec
 d11: 0.03000000 sec
 DELTA: 0.05000000 sec
 TD0: 1

===== CHANNEL f1 =====
 NUC1: 13C
 P1: 7.80 usec
 PL1: -3.00 dB
 SFO1: 100.5785700 MHz

===== CHANNEL f2 =====
 CDDPRG2: waltz16
 NUC2: 1H
 PCPD2: 135.00 usec
 PL2: 17.40 dB
 PL12: 17.40 dB
 PL13: 17.40 dB
 SFO2: 399.9516000 MHz

F2 - Processing parameters
 S2: 32768
 SF: 100.5675080 MHz
 WDW: EM
 SSB: 0
 LB: 3.00 Hz
 GB: 0
 PC: 1.40



```

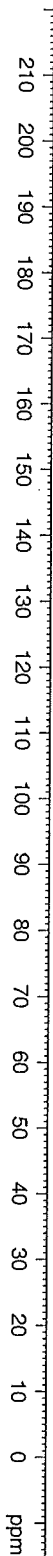
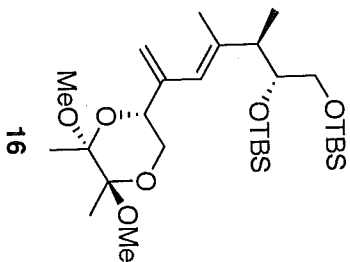
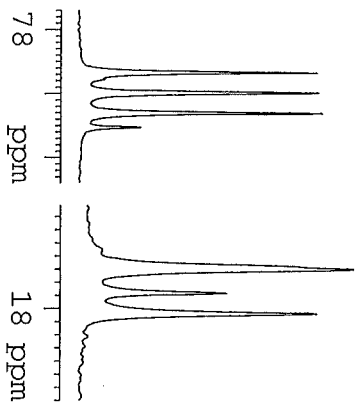
Current Data Parameters
NAME           SUM-III-17-Diene
EXPNO         1
PROCNO       1
DU            /h
USER         subham

F2 - Acquisition Parameters
Date_        20090212
Time         17:57
INSTRUM     DPX400
PROBHD      5 mm BBO BB-1H
PULPROG     zg30
TD           32768
SOLVENT     CDCl3
NS           32
DS           2
SWH          6410.256 Hz
FIDRES       0.195625 Hz
AQ           2.5559540 sec
RG           161.3
DW           78.000 usec
DE           6.00 usec
TE           298.2 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1         1H
P1           14.70 usec
PL           0.00 dB
SFO1         399.9528000 MHz

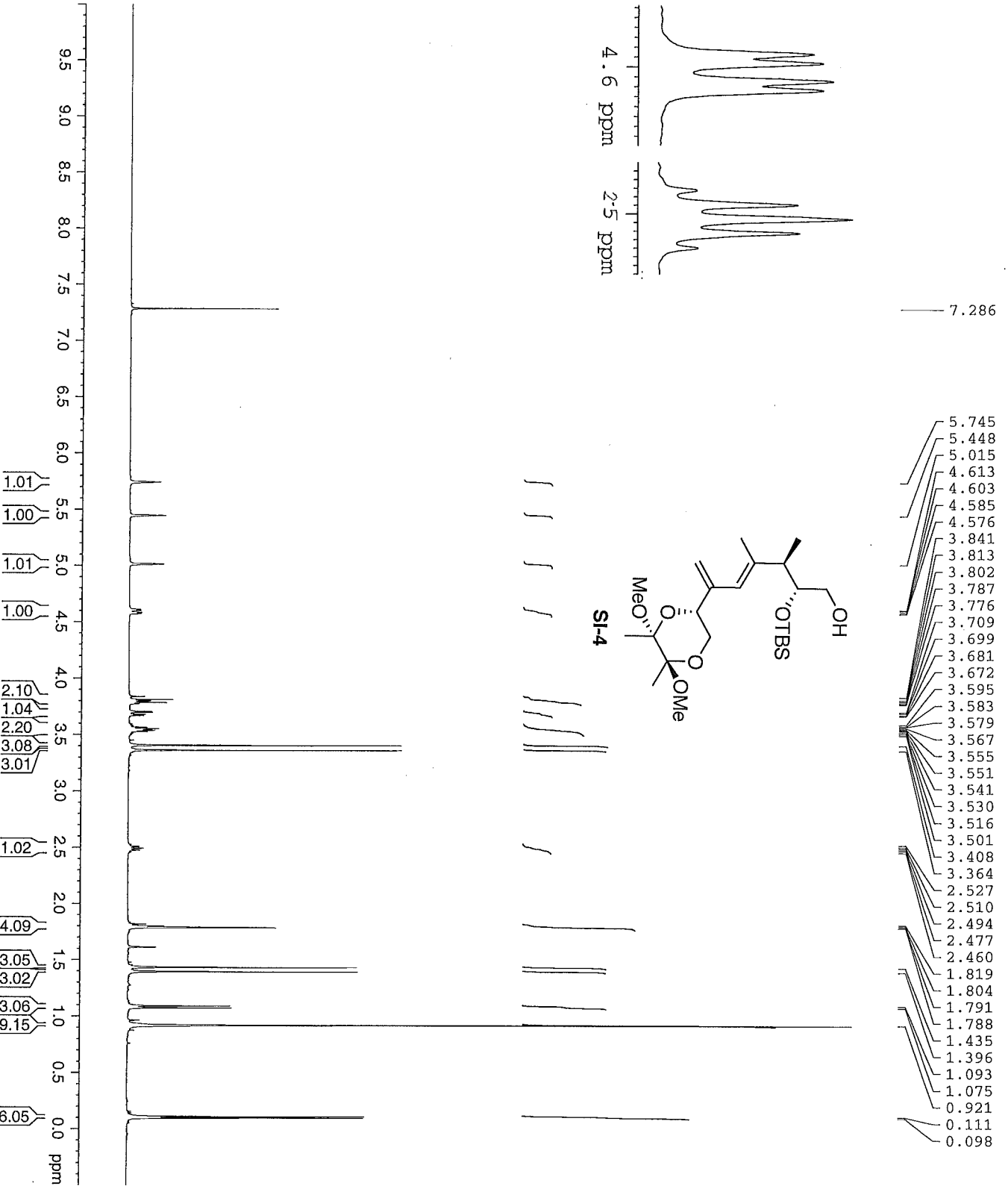
F2 - Processing parameters
SI           32768
SF           399.9500000 MHz
WDW          EM
SSB          0
LB           0
GB           0
PC           1.00
    
```

- 143.02
- 142.12
- 123.66
- 114.36
- 100.95
- 100.12
- 77.33
- 77.02
- 76.70
- 76.47
- 73.72
- 65.91
- 65.50
- 48.63
- 48.31
- 45.38
- 25.99
- 25.92
- 18.30
- 18.12
- 17.97
- 16.84
- 16.00
- 4.13
- 4.87
- 5.35
- 5.39



Current Data Parameters
NAME SWH-III-17-Diene
EXPNO 3
PROCNO 1
DIR /h
USER subham
F2 - Acquisition Parameters
Date_ 20090212
Time 19:31
INSTRUM DEK400
PROBHD BB-1H
PULPROG zgpg30
TD 65536
SOLVENT NS
NS 5782
DS 4
SWH 25125.629 Hz
FIDRES 0.383387 Hz
AQ 1.3042164 sec
RG 16384
DW 19.900 usec
DE 6.00 usec
TE 298.2 K
D1 0.15000001 sec
d11 0.03000000 sec
DELTA 0.05000000 sec
TD0 1
==== CHANNEL F1 =====
NUC1 13C
P1 7.80 usec
PL1 -3.00 dB
SFO1 100.5785700 MHz
==== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 135.00 usec
PL2 17.40 dB
PL3 17.40 dB
SFO2 399.9516000 MHz
F2 - Processing parameters
SI 32768
SF 100.5675089 MHz
WDW EM
SSB 0
CB 3.00 Hz
GB 0
PC 1.40

mono TBS diol



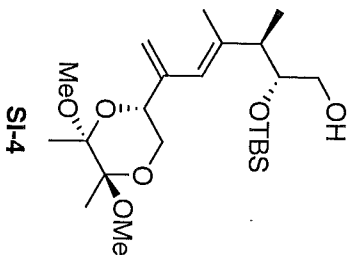
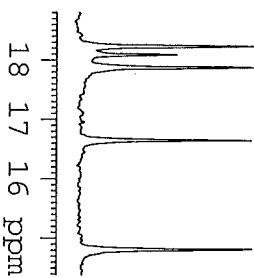
Current Data Parameters
NAME SUK-III-83-mono TBS diol
EXPERNO 1
PROCNO 1
P1 /n
PR /n
USER subban

F2 - Acquisition Parameters
Date 20090606
Time 3:41
INSTRUM BPC400
PROBHD 5 mm BBO BP-1H
PULPROG zgpg30
FIDRES 0.16
SOLVENT CDCl3
NS 32
DS 2
SWH 6410.255 Hz
FIDRES 0.162523 Hz
AQ 2.125230 sec
RG 203.2
DW 78.000 usec
DE 6.00 usec
TE 298.2 K
D1 2.00000000 sec
TD 1

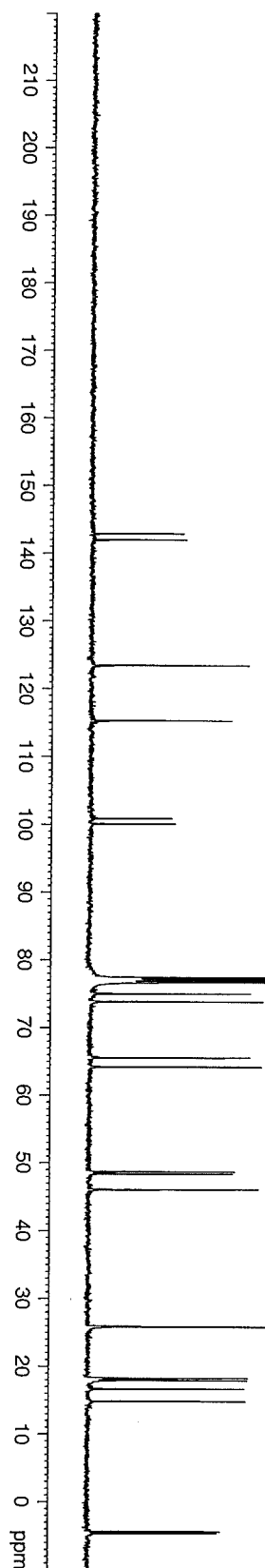
===== CHANNEL f1 =====
NUC1 1H
PI 14.70 usec
PL 0.00 dB
SFO1 399.9528000 MHz

F2 - Processing parameters
SI 32768
SF 399.950000 MHz
WDW EM
SSB 0
LB 0.76 Hz
GB 0
PC 1.00

mono TBBS diol



142.88	141.95
123.41	115.27
100.86	100.06
77.34	77.02
76.70	75.00
73.82	65.56
64.20	48.68
48.35	46.05
25.85	18.24
18.09	17.88
16.65	14.82
4.39	4.66



```

Current Data Parameters
NAME      SUM-111-83-mono TBSS d
EXPNO    2
PROCNO   1
DU        1
USER     subham

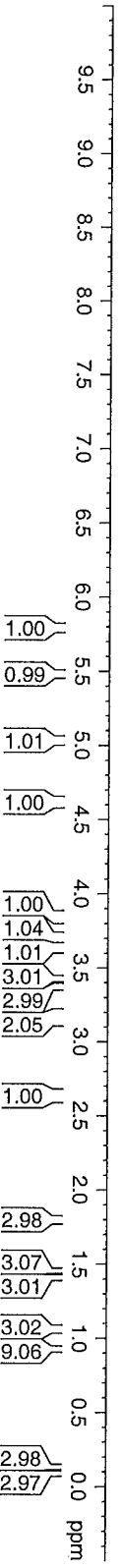
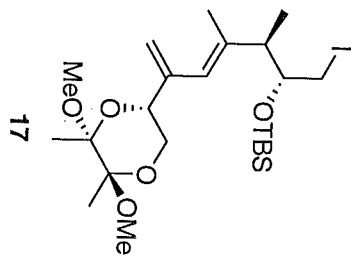
F2 - Acquisition Parameters
Date_    20090606
Time     4.05
INSTRUM  DEK400
PROBHD   5 mm BBO BH-1H
PULPROG  zgpg30
TD        65536
SOLVENT  NS
NS        12741
DS         4
SWH       25125.629 Hz
FIDRES    0.38387 Hz
AQ        1.3042164 sec
RG        16384
DM        19.900 usec
DE        6.00 usec
TE        299.2 K
D1        0.1500001 sec
d11       0.0300000 sec
DELTA    0.0500000 sec
TD0       1

===== CHANNEL f1 =====
NUC1      13C
P1        7.80 usec
PL1       -3.00 dB
SFO1     100.5785700 MHz

===== CHANNEL f2 =====
CPDPRG2   waltz16
NUC2      1H
PCPD2     135.00 usec
PL2       17.40 dB
PL12     17.40 dB
PL13     17.40 dB
SFO2     399.9516000 MHz

F2 - Processing parameters
SI        32768
SF        100.5675080 MHz
WDW       EM
SSB       0
LB        3.00 Hz
GB        0
PC        1.40
  
```


- 7.285
- 5.792
- 5.480
- 5.032
- 4.631
- 4.622
- 4.603
- 4.594
- 3.868
- 3.840
- 3.812
- 3.721
- 3.711
- 3.693
- 3.684
- 3.655
- 3.644
- 3.639
- 3.633
- 3.628
- 3.616
- 3.426
- 3.372
- 3.206
- 3.196
- 3.181
- 3.171
- 3.162
- 3.146
- 3.137
- 3.120
- 2.664
- 2.646
- 2.634
- 2.629
- 2.616
- 2.599
- 1.799
- 1.796
- 1.448
- 1.407
- 1.067
- 1.050
- 0.924
- 0.129
- 0.086

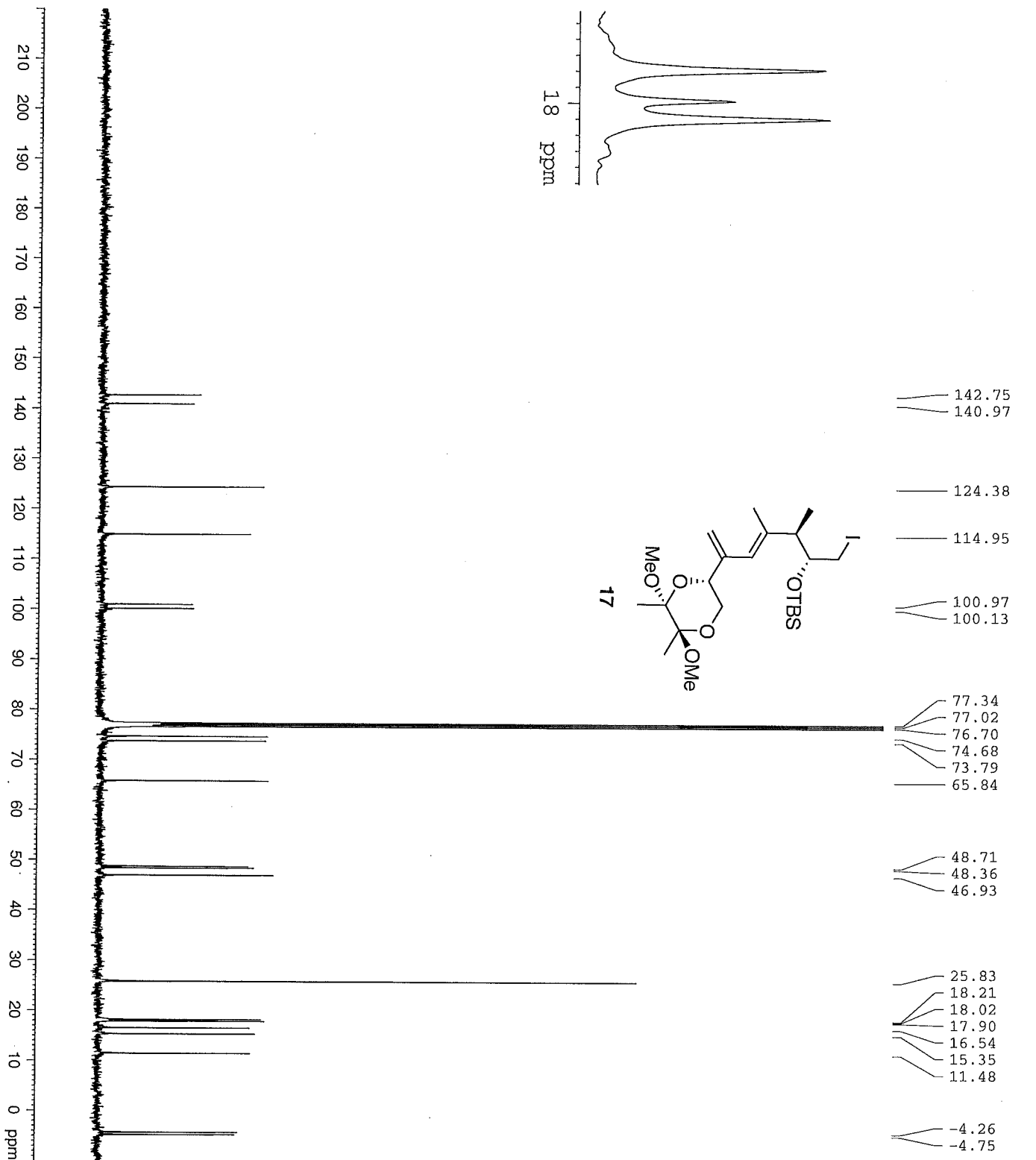


Current Data Parameters
 NAME SUM-III-74-Iodide
 EXPRNO 5
 PROCNO 1
 DTU /1
 USPR subham

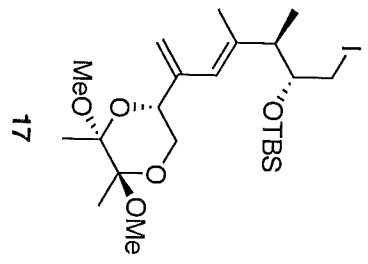
F2 - Acquisition Parameters
 Date_ 20090526
 Time 15:04
 INSTRUM DPK400
 PROBEID 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 FIDRES 0.195625
 SFO1 399.9528000 MHz
 DS 32
 NS 2
 SWE 6410.256 Hz
 FIDRES 0.195625 Hz
 AQ 2.5559540 sec
 RG 203.2
 DW 78.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 2.00000000 sec
 TDO 1

==== CHANNEL F1 =====
 NUC1 1H
 P1 14.70 usec
 PL1 0.00 dB
 SFO1 399.9528000 MHz

F2 - Processing parameters
 SI 32768
 SF 399.9500000 MHz
 KDW 0
 SSB 0
 LB 0.70 Hz
 GB 0
 PC 1.00



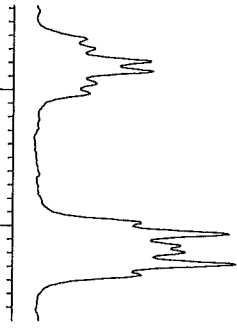
- 142.75
- 140.97
- 124.38
- 114.95
- 100.97
- 100.13
- 77.34
- 77.02
- 76.70
- 74.68
- 73.79
- 65.84
- 48.71
- 48.36
- 46.93
- 25.83
- 18.21
- 18.02
- 17.90
- 16.54
- 15.35
- 11.48
- 7.26
- 7.75



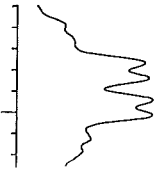
Current Data Parameters
 NAME SUM-111-85-Iodide
 EXPNO 4
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20090615
 Time 17.47
 INSTRUM DEK400
 PROBRD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT
 NS 5000
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 15384
 DW 19.900 usec
 DE 6.00 usec
 TE 299.2 K
 D1 0.15000001 sec
 d11 0.03000000 sec
 DELTA 0.05000000 sec
 TPO 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 7.80 usec
 PL1 -2.00 dB
 SFO1 100.5785700 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 ROVD2 135.00 usec
 PL2 17.40 dB
 PL12 17.40 dB
 PL13 17.40 dB
 SFO2 399.9516000 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.5675080 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Sulfone Coupling

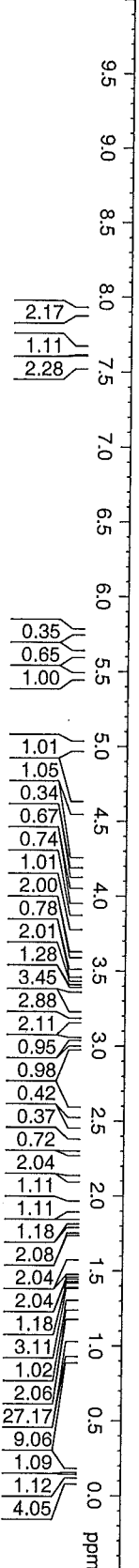
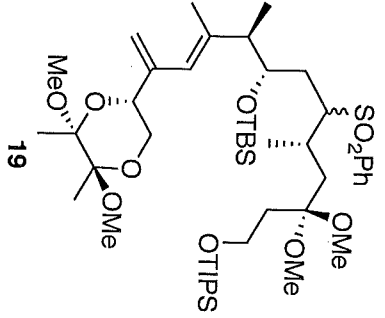
- 7.910
- 7.899
- 7.892
- 7.889
- 7.881
- 7.878
- 7.634
- 7.628
- 7.615
- 7.590
- 7.571
- 7.566
- 7.546
- 7.528
- 7.286
- 5.614
- 5.465
- 5.009
- 4.982
- 4.585
- 3.820
- 3.792
- 3.785
- 3.695
- 3.686
- 3.668
- 3.659
- 3.438
- 3.426
- 3.423
- 3.417
- 3.377
- 3.365
- 3.210
- 3.193
- 3.175
- 3.165
- 3.043
- 2.985
- 2.545
- 2.216
- 2.210
- 2.180
- 1.948
- 1.929
- 1.825
- 1.769
- 1.464
- 1.456
- 1.443
- 1.434
- 1.419
- 1.405
- 1.399
- 1.279
- 1.246
- 1.162
- 1.149
- 1.145
- 1.126
- 1.116
- 1.104
- 1.093
- 1.082
- 1.076
- 1.069
- 1.062
- 1.051
- 0.907
- 0.894
- 0.163
- 0.125
- 0.098
- 0.090



4.2 ppm



2.4

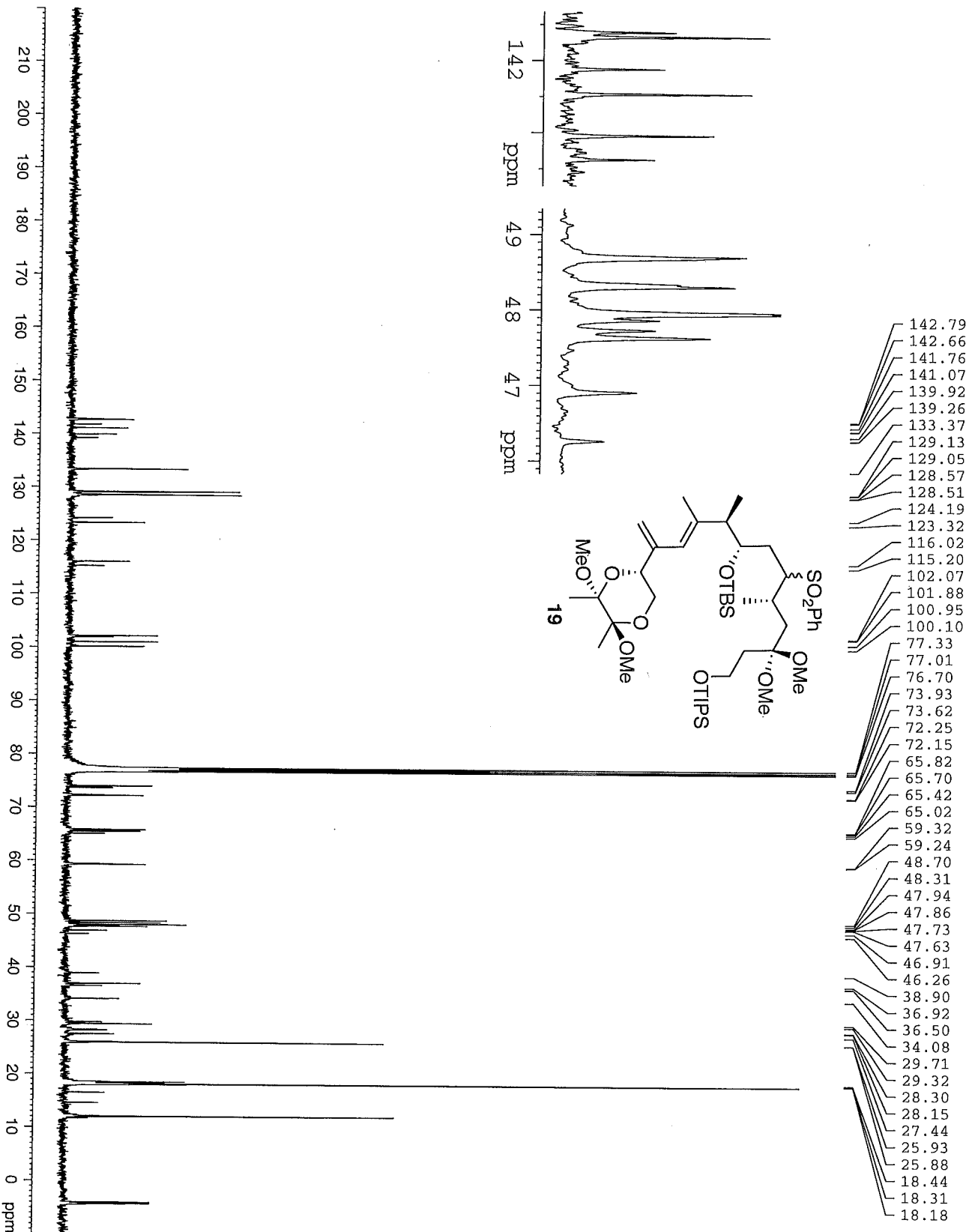


```

Current Data Parameters
NAME          SW-II-75-Sulfone Cc
EXPNO        4
PROCNO       4
SUBNO        1
SUBNAME      subhan
PR - Acquisition Parameters
Date_         2009
Time          21.48
INSTRUM      DPX400
PROBHD       5 mm BBO BB-1H
PULPROG      zgpg30
TD            32768
SOLVENT      CDCl3
NS            64
DS            2
SWH           6410.255 Hz
AQ            0.15655 Hz
RG            2.5559540 sec
FIDRES       203.2
AQ           78.000 usec
SFO           360.000 MHz
TE           300.2 K
D1            2.00000000 sec
TD0           1

***** CHANNEL f1 *****
NUC1          1H
P1            14.70 usec
PL1           0.00 dB
SFO1          399.9528000 MHz
F2 - Processing parameters
SI            32768
SF           399.9500000 MHz
WDW           EM
SSB           0
LB            0.70 Hz
GB            0
PC            1.00
  
```

Sulfone Coupling



Current Data Parameters
 NAME SUX-111-75-Sulfone Coupl
 EXNO 6
 FPRONO 1
 DU /n
 USER subham

F2 - Acquisition Parameters
 Date_ 20060601
 Time_ 23 03
 INSTRUM DMX400
 PROBRHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT

NS 24500
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 16384
 NI 19300
 DM 19300 usec
 TE 29.02 K
 D1 0.1500000 sec
 d11 0.0300000 sec
 DELTA 0.0500000 sec
 TDO 1

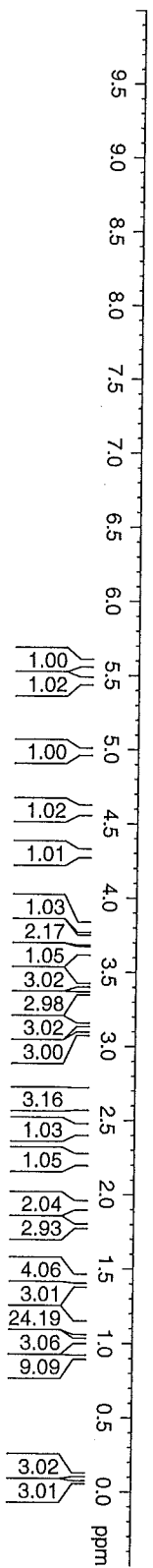
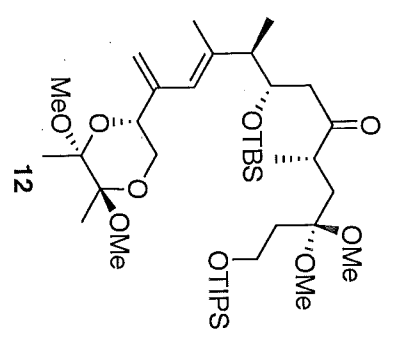
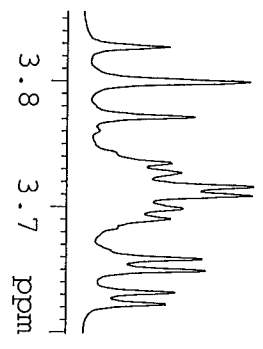
==== CHANNEL f1 =====
 NUC1 13C
 P1 7.80 usec
 PL1 -3.00 dB
 SFO1 100.5785700 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P2 135.00 usec
 PL2 17.40 dB
 PL12 17.40 dB
 PL13 17.40 dB
 SFO2 399.9516000 MHz

F2 - Processing parameters
 SI 32768
 SF 100.5675080 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Ketone

- 7.285
- 5.579
- 4.985
- 4.604
- 4.596
- 4.576
- 4.567
- 4.302
- 4.297
- 4.293
- 4.288
- 4.276
- 3.827
- 3.800
- 3.772
- 3.735
- 3.728
- 3.717
- 3.710
- 3.699
- 3.691
- 3.659
- 3.650
- 3.632
- 3.623
- 3.411
- 3.356
- 3.142
- 3.083
- 2.693
- 2.677
- 2.665
- 2.648
- 2.638
- 2.629
- 2.616
- 2.583
- 2.448
- 2.439
- 2.431
- 2.422
- 2.260
- 2.238
- 2.224
- 2.201
- 1.941
- 1.922
- 1.904
- 1.785
- 1.783
- 1.453
- 1.443
- 1.432
- 1.417
- 1.407
- 1.389
- 1.143
- 1.130
- 1.120
- 1.107
- 1.091
- 1.082
- 1.071
- 1.061
- 1.022
- 1.005
- 0.905
- 0.112
- 0.062



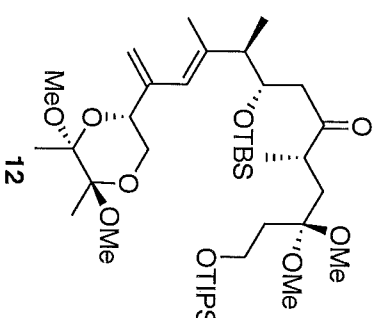
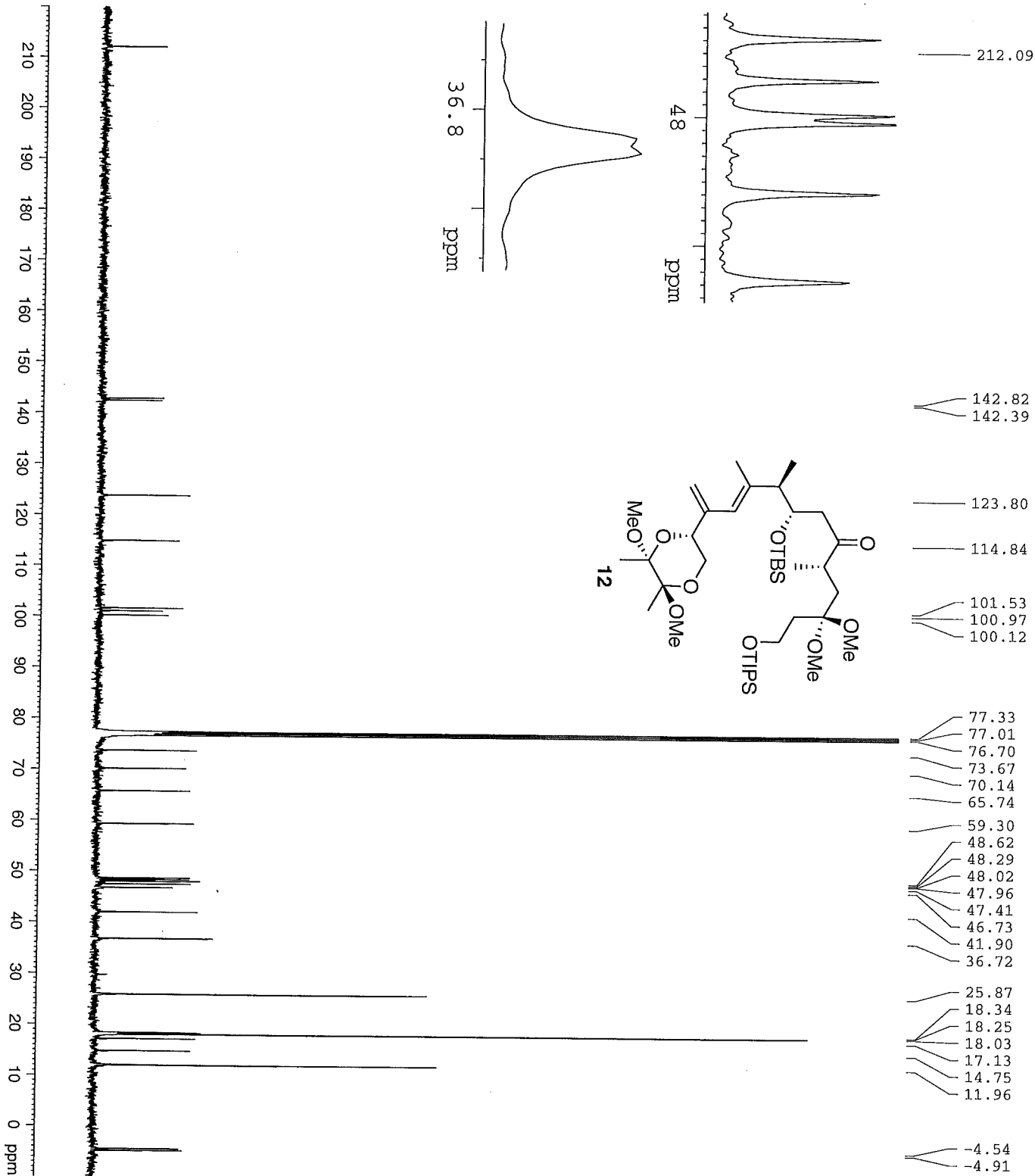
Current Data Parameters
 NAME SUM-III-77-Ketone
 EXPNO 5
 PROCNO 1
 DU /a
 USHR subnam

F2 - Acquisition Parameters
 Date_ 20090619
 Time 17.27
 INSTRUM DPX400
 PROBHD 5 mm BBO BR-1H
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 64
 DS 2
 SWE 6410.256 Hz
 FIDRES 0.195625 Hz
 AQ 2.5559540 sec
 RG 327.5
 DW 78.000 usec
 DE 6.00 usec
 TE 299.2 K
 D1 2.0000000 sec
 TPO 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 14.70 usec
 F1 0.00 dB
 SFO1 399.9528000 MHz

F2 - Processing Parameters
 SI 32768
 SF 399.9500000 MHz
 WDW EM
 SSB 0
 LB 0.70 Hz
 GB 0
 PC 1.00

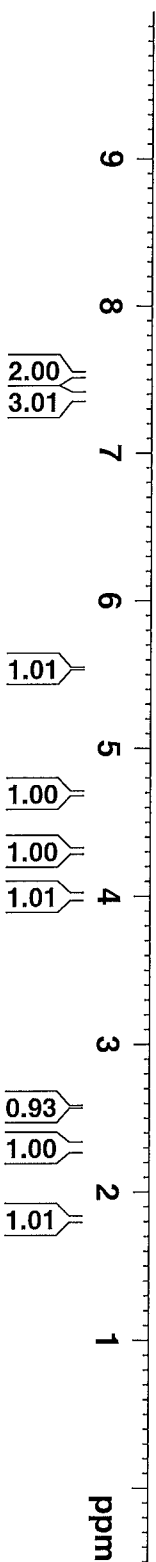
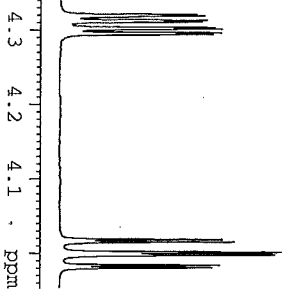
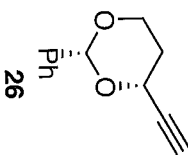
Ketone



Current Data Parameters
 NAME SUN-III-77-Ketone
 EXPNO 6
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20090619
 Time 18:20
 INSTRUM DEK400
 PROSD HD
 PULPROG zgpg30
 TD 65536
 SOLVENT NS
 NS 13187
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.383387 Hz
 AQ 1.3042164 sec
 RG 16384
 DW 19.900 usec
 DE 6.00 usec
 TE 300.2 K
 D1 0.15000001 sec
 d11 0.03000000 sec
 DELTA 0.05000000 sec
 F2 - Processing parameters
 SI 32768
 SF 100.5675080 MHz
 WDW EM
 SSB 0
 GB 0
 PC 1.40

Alkyne

7.541
7.541
7.538
7.529
7.529
7.528
7.408
7.405
7.395
7.393
7.387
7.385
7.382
7.380
7.377
7.370
7.288
5.540
4.707
4.704
4.701
4.691
4.688
4.684
4.319
4.317
4.312
4.310
4.303
4.301
4.296
4.294
4.018
4.014
4.000
3.997
3.996
3.983
3.979
2.579
2.576
1.828
1.826
1.825
1.809
1.807



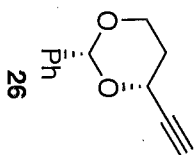
```

NAME          SUM-XV-26-Alkyne
EXPNO         1
PROCNO        1
Date_         20120329
Time          11.03
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            22.6
DW            42.000 usec
DE            6.50 usec
TE            298.2 K
D1            2.00000000 sec
TD0           1

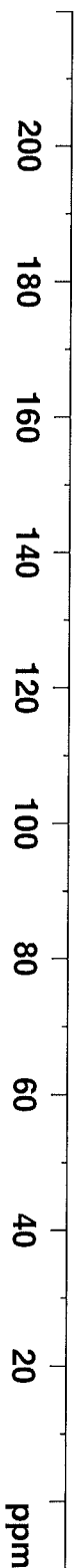
===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHz
SI           1311072
SF           700.1471400 MHz
WDW           EM
SSB           0
LB           0.30 Hz
GB           0
PC           1.00

```

Alkyne



- 137.81
- 129.11
- 128.32
- 126.25
- 101.67
- 81.61
- 77.27
- 77.09
- 76.91
- 73.87
- 67.26
- 66.66
- 31.91



```

NAME          SUM-XV-26-Alkyne
EXPNO         2
PROCNO        1
Date_         20120329
Time          11.14
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            182
DS            4
SWH           41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           16.50 usec
TE           298.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1
  
```

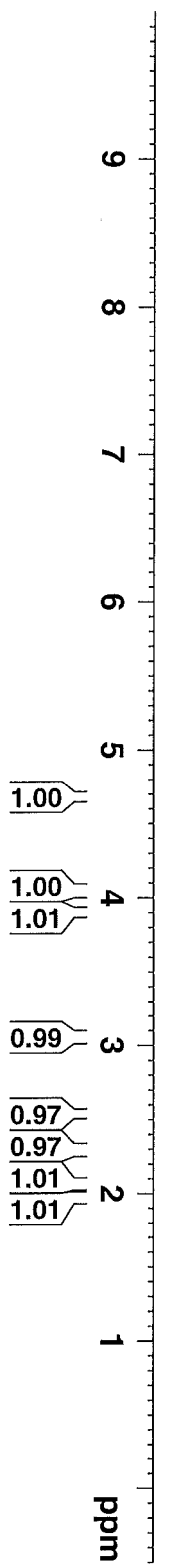
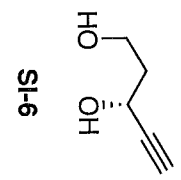
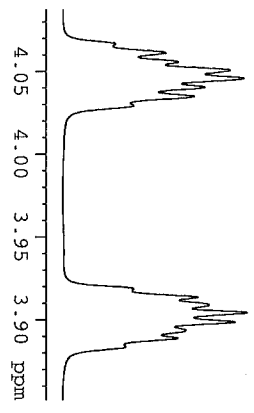
```

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1          4.50 dB
PL1W         38.14553833 W
SFO1         176.0706238 MHz
  
```

```

===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL12W        33.59817505 W
PL13W        0.70196527 W
SFO2         0.00000000 MHz
SF           700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```

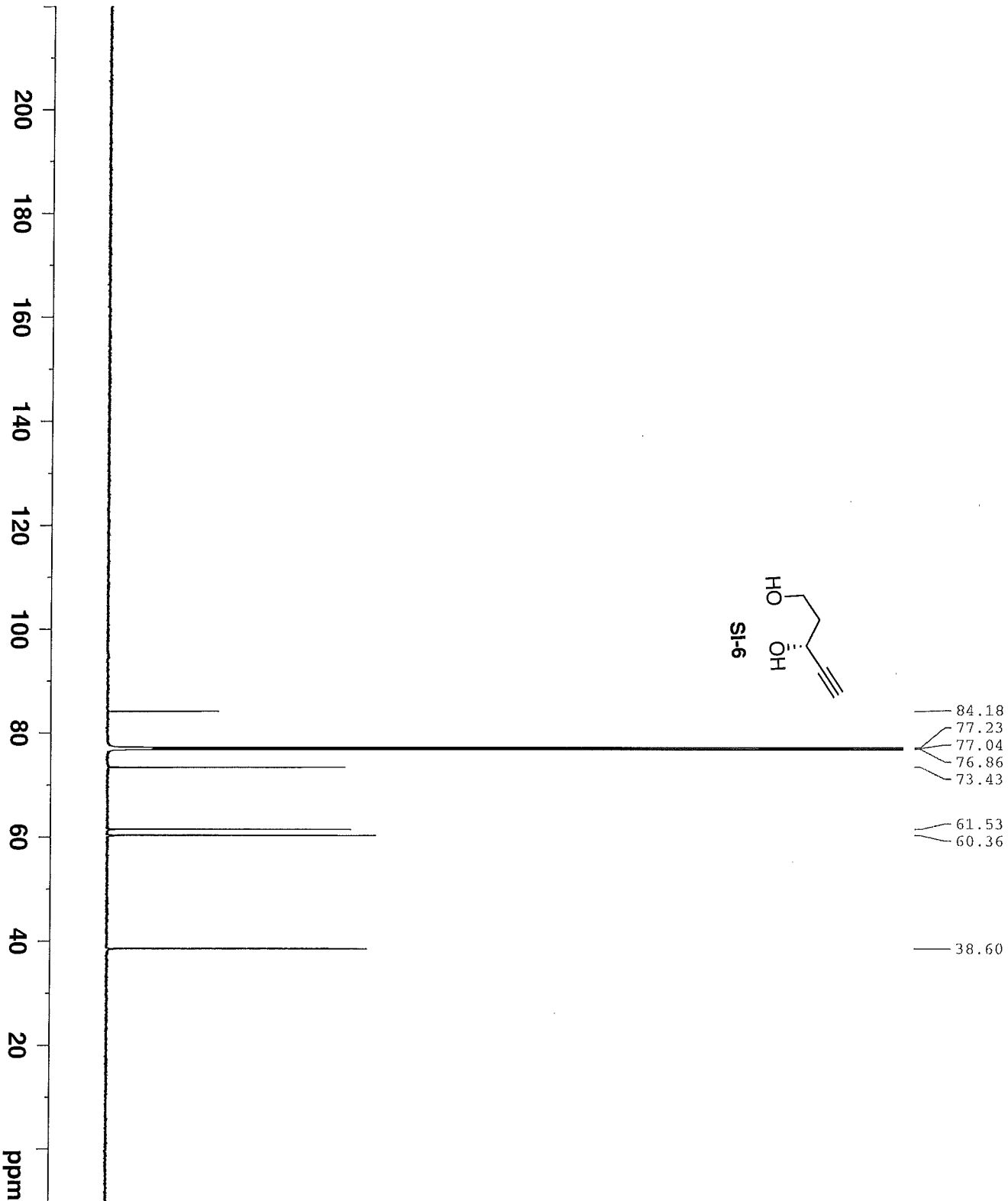
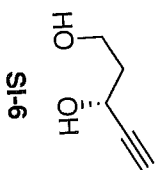

Diol
 7.288
 4.689
 4.686
 4.683
 4.679
 4.676
 4.050
 4.045
 4.040
 4.034
 3.913
 3.909
 3.904
 3.898
 3.062
 3.055
 2.543
 2.539
 2.302
 2.083
 2.077
 2.077
 2.072
 2.071
 2.066
 2.066
 2.063
 2.060
 2.057
 2.051
 2.050
 2.046
 2.045
 2.039
 1.999
 1.994
 1.989
 1.984
 1.980
 1.978
 1.974
 1.973
 1.969
 1.963
 1.959
 1.954



NAME	SUM-IX-44-DiOl
EXPNO	1
PROCNO	1
Date_	20121203
Time	19.49
INSTRUM	spect
PROBHD	5 mm CPDCH 13C
PULPROG	zg30
TD	95236
SOLVENT	CDCl3
NS	20
DS	2
SWH	11904.762 Hz
FIDRES	0.125003 Hz
AQ	3.9999621 sec
RG	28.5
DW	42.000 usec
DE	6.50 usec
TE	303.3 K
D1	2.00000000 sec
TD0	1

===== CHANNEL f1 =====	
NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PL1W	33.59817505 W
SFO1	700.1516910 MHZ
SI	131072
SF	700.1471400 MHZ
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Diol



84.18
77.23
77.04
76.86
73.43
61.53
60.36
38.60

```

NAME          SUM-IX-44-DiOl
EXPNO         2
PROCNO        1
Date_         20121203
Time         19.58
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            91
DS            4
SWMH          41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            303.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1
    
```

```

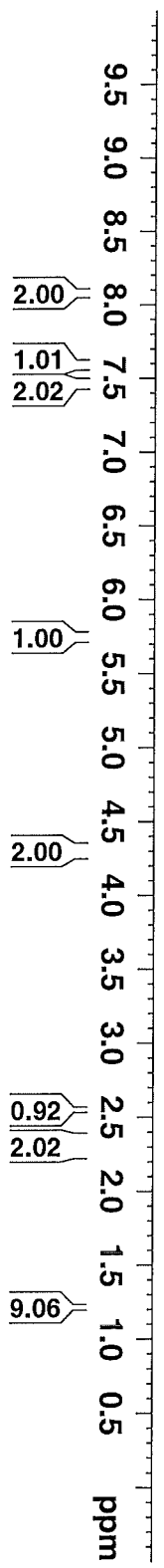
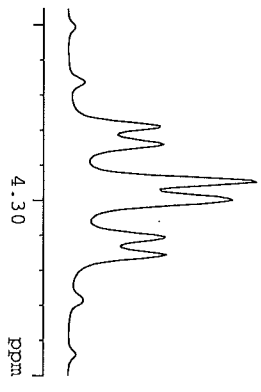
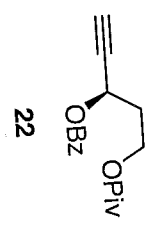
===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz
    
```

```

===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1W          33.59817505 W
PL12W         0.70196527 W
PL13W         0.00000000 W
SFO2          700.1499406 MHz
SI            32768
SF            176.0521380 MHz
WDW          EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
    
```

Benzoate Ester

8.091	8.090	8.088	8.076	8.071	8.067	7.616	7.613	7.610	7.599	7.595	7.590	7.579	7.576	7.573	7.485	7.481	7.465	7.450	7.446	7.282	5.767	5.762	5.751	5.745	5.734	5.728	4.321	4.316	4.305	4.300	4.289	4.284	2.555	2.550	2.366	2.346	2.331	2.314	2.300	2.284	2.268	2.264	2.248	2.232	1.215
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



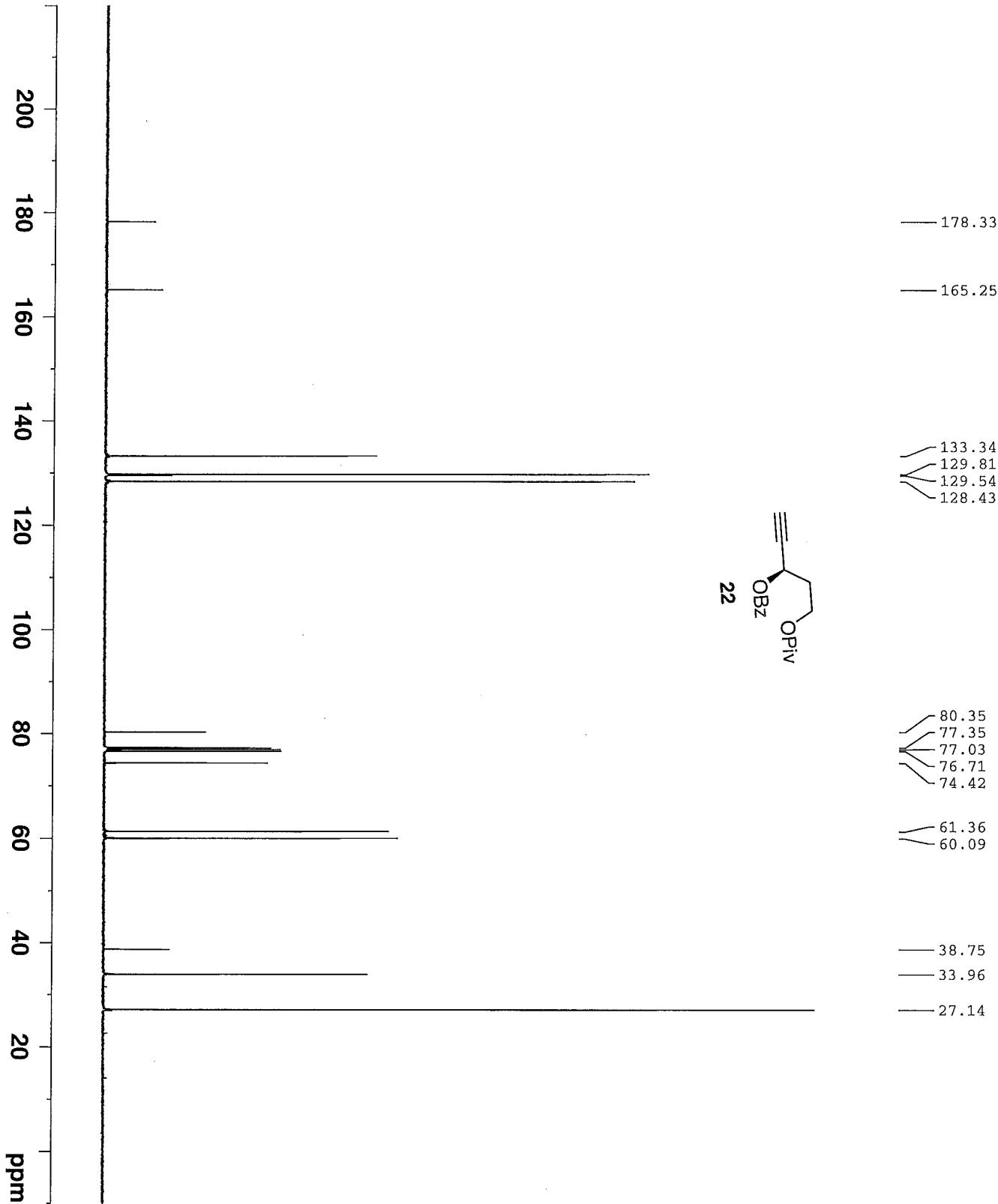
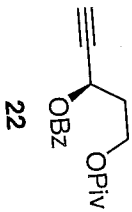
SM-VII-51-R-Benzoate Est

NAME	EXPNO	PROCNO	Date_	Time	INSTRUM	PROBHD	PULPROG	TD	SOLVENT	NS	DS	SWE	FIDRES	AQ	RG	DW	DE	TE	D1	TDO
	2	1	20100810	22.33	robinson	5 mm PABBO B-	zg30	32768	CDCl3	32	2	6793.478 Hz	0.207320 Hz	2.4117749 sec	35.9	73.600 usec	6.50 usec	299.4 K	2.00000000 sec	1

CHANNEL f1

NUC1	1H
P1	14.00 usec
PL1	0.00 dB
SFO1	400.1424008 MHz
SI	32768
SF	400.1400000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Benzoate Ester



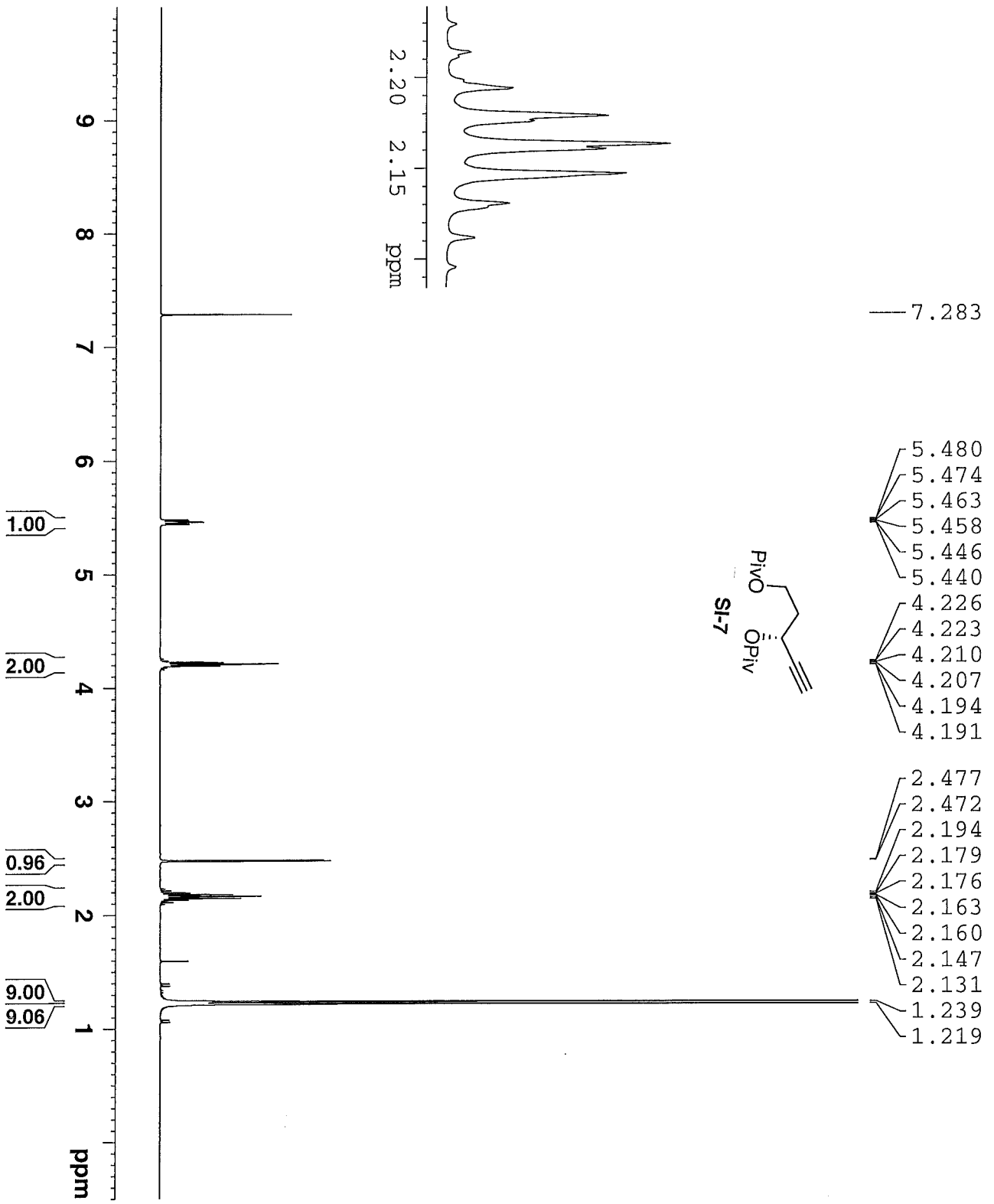
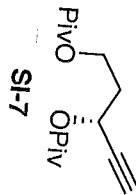
```

NAME          SM-VII-51-R-Benzoate E
EXPNO         3
PROCNO        1
Date_         20100810
Time          22.42
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            3814
DS            4
SWH           23980.814 Hz
FIDRES        0.365918 Hz
AQ            1.3664756 sec
RG            18390.4
DW            20.850 usec
DE            6.50 usec
TE            301.7 K
D1            0.20000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           -2.00 dB
SFO1         100.6258476 MHz

===== CHANNEL F2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         90.00 usec
PL2           0.00 dB
PL12          16.16 dB
PL13          17.00 dB
SFO2         400.1416006 MHz
SI            32768
SF           100.6152830 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40
  
```

Bis Piv



- 7.283
- 5.480
- 5.474
- 5.463
- 5.458
- 5.446
- 5.440
- 4.226
- 4.223
- 4.210
- 4.207
- 4.194
- 4.191
- 2.477
- 2.472
- 2.194
- 2.179
- 2.176
- 2.163
- 2.160
- 2.147
- 2.131
- 1.239
- 1.219

```

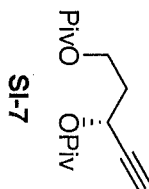
NAME          SUM-VI-R-23-bis P
EXPNO         1
PROCNO        1
Date_         20121202
Time          2.36
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENTP      CDCl3
NS            18
DS            2
SWH           7183.908 Hz
FIDRES       0.219235 Hz
AQ           2.2807028 sec
RG           128
DM           69.600 usec
DE           6.50 usec
TE           297.9 K
D1           2.00000000 sec
TD0          1
    
```

```

===== CHANNEL f1 =====
NUC1          1H
P1           11.20 usec
PL1          0.00 dB
SF01         400.1428010 MHz
SI           32768
SF           400.1400000 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
    
```

Bis Piv

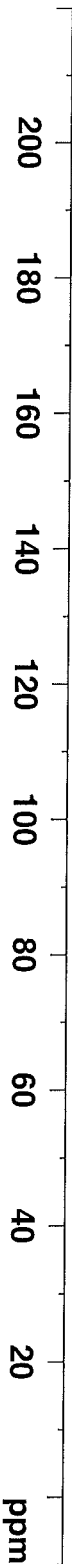
178.34
177.08



80.55
77.33
77.01
76.69
73.80

60.35
59.91

38.74
33.72
27.15
26.98



```

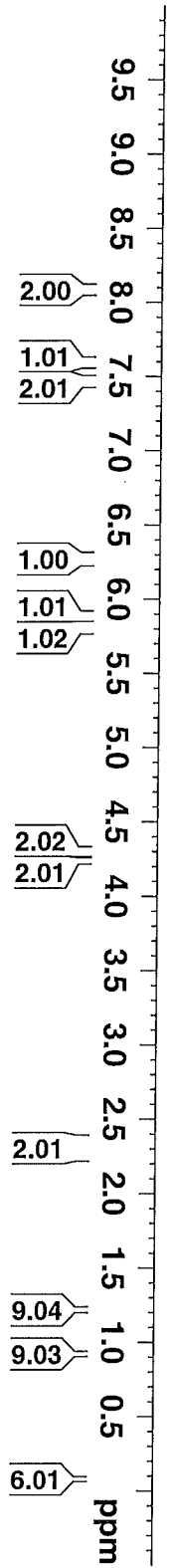
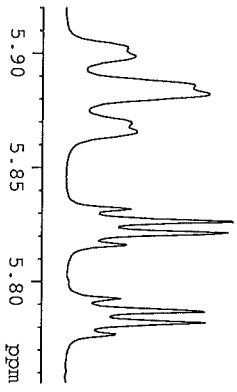
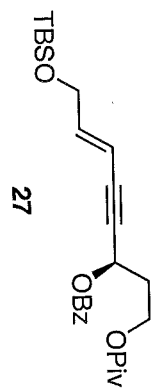
NAME          SUM-VI-R-23-bis PI
EXPNO         2
PROCNO        1
Date_         20121202
Time_         2.44
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            2000
DS            4
SWH           23980.814 Hz
FIDRES        0.365918 Hz
AQ            1.3664756 sec
RG            14596.5
DW            20.850 use
DE            6.50 use
TE            299.0 K
D1            1.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            7.60 use
PL1          -2.00 dB
SFO1         100.6258476 MHz

===== CHANNEL F2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         90.00 use
PL2           0.00 dB
PL12         18.10 dB
PL13         17.00 dB
SFO2         400.1416006 MHz
SI            32768
SF           100.6152830 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
  
```

Eneyne

- 8.100
- 8.099
- 8.097
- 8.084
- 8.079
- 8.075
- 7.611
- 7.593
- 7.588
- 7.578
- 7.574
- 7.571
- 7.485
- 7.481
- 7.466
- 7.451
- 7.447
- 6.301
- 6.290
- 6.280
- 6.261
- 6.251
- 6.241
- 5.886
- 5.882
- 5.826
- 5.822
- 5.787
- 5.782
- 4.313
- 4.297
- 4.281
- 4.244
- 4.238
- 4.234
- 4.229
- 2.343
- 2.327
- 2.316
- 2.310
- 2.300
- 2.294
- 2.284
- 1.217
- 0.921
- 0.078

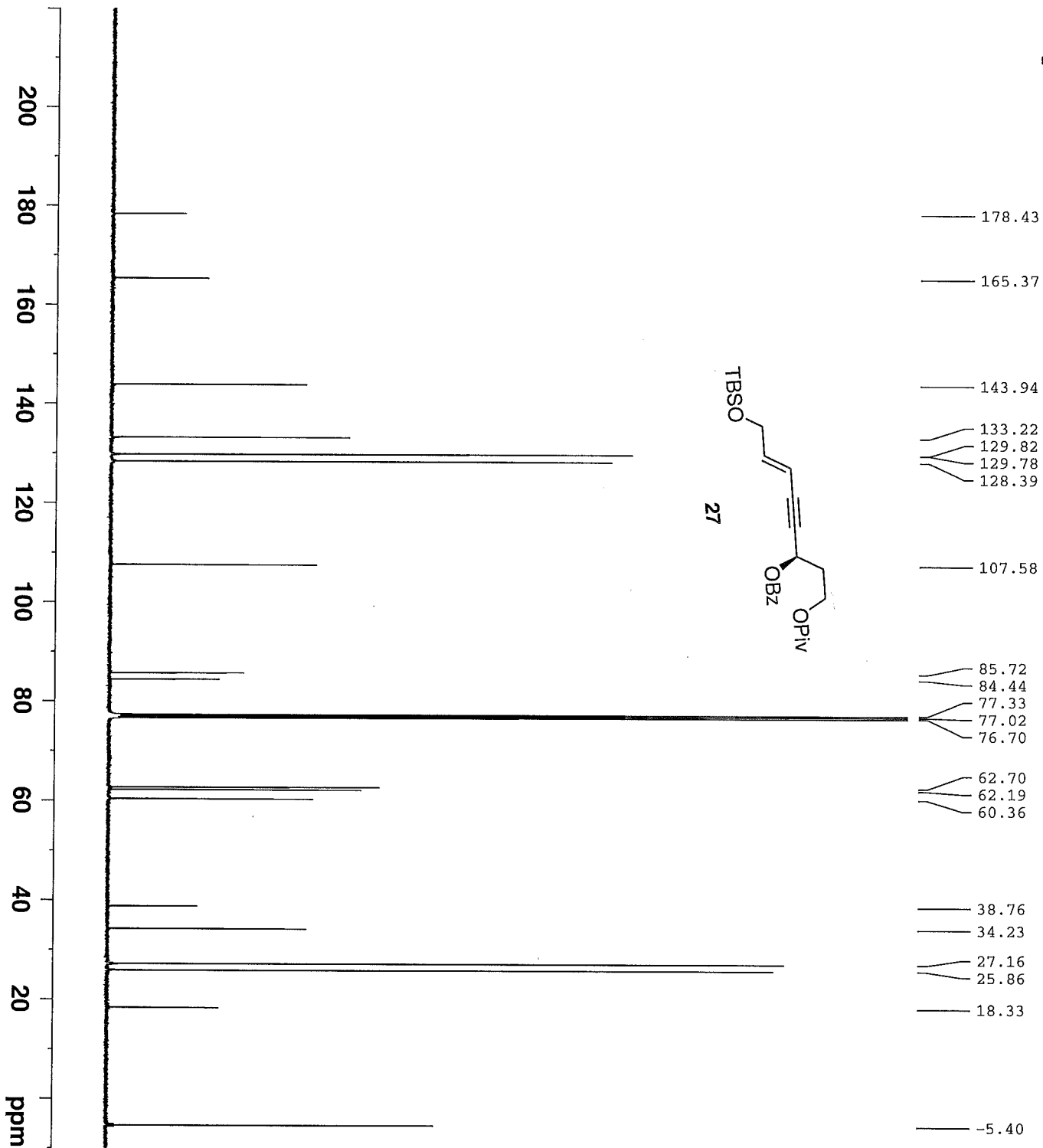


```

NAME          SUM-X-06-R-Eneyne
EXPNO         1
PROCNO        1
Date_         20110113
Time          20.53
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENT       CDCl3
NS            32
DS            2
SWH           6793.478 Hz
FIDRES       0.207320 Hz
AQ           2.4117749 sec
RG           90.5
DW           73.600 usec
DE           6.50 usec
TE           298.2 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           14.00 usec
PL1          0.00 dB
SFO1         400.1424008 MHz
SI           32768
SF           400.1400000 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Eneayne



Current Data Parameters
 NAME SUM-X-06-R-Eneayne
 EXPNO 6
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20110113
 Time 22.02

INSTRUM robinson
 PROBHD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 19000
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 16384
 DW 20.850 usec
 DE 6.50 usec
 TE 299.3 K
 D1 0.2000000 sec
 D11 0.0300000 sec
 TD0 1

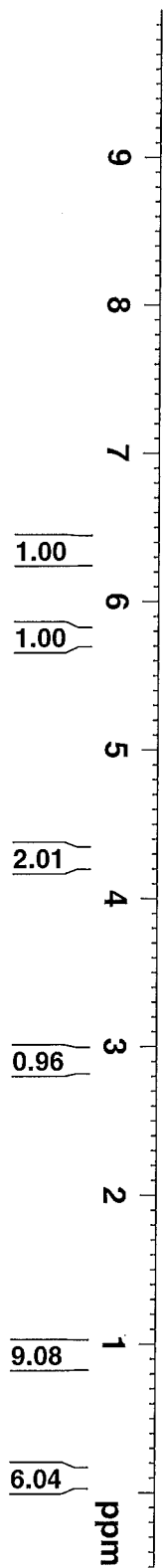
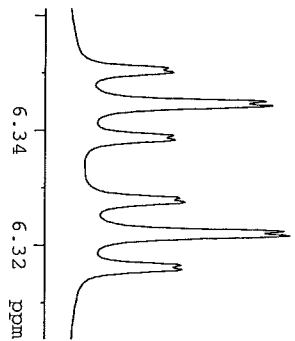
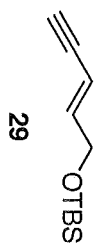
==== CHANNEL f1 =====
 NUCC1 13C
 P1 9.00 usec
 PL1 -2.00 dB
 SFO1 100.6258476 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUCC2 1H
 PCPD2 90.00 usec
 PL2 0.00 dB
 PL12 16.16 dB
 PL13 17.00 dB
 SFO2 400.1416006 MHz

F2 - Processing Parameters
 SI 32768
 SF 100.6152830 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

TRBS Ether

- 7.290
- 6.351
- 6.350
- 6.345
- 6.344
- 6.339
- 6.338
- 6.328
- 6.327
- 6.322
- 6.322
- 6.316
- 6.316
- 5.798
- 5.795
- 5.792
- 5.789
- 5.776
- 5.772
- 5.769
- 5.766
- 4.267
- 4.266
- 4.264
- 4.263
- 4.261
- 4.260
- 4.258
- 4.257
- 2.901
- 2.900
- 2.899
- 2.898
- 2.897
- 0.941
- 0.101



1.00

1.00

2.01

0.96

9.08

6.04

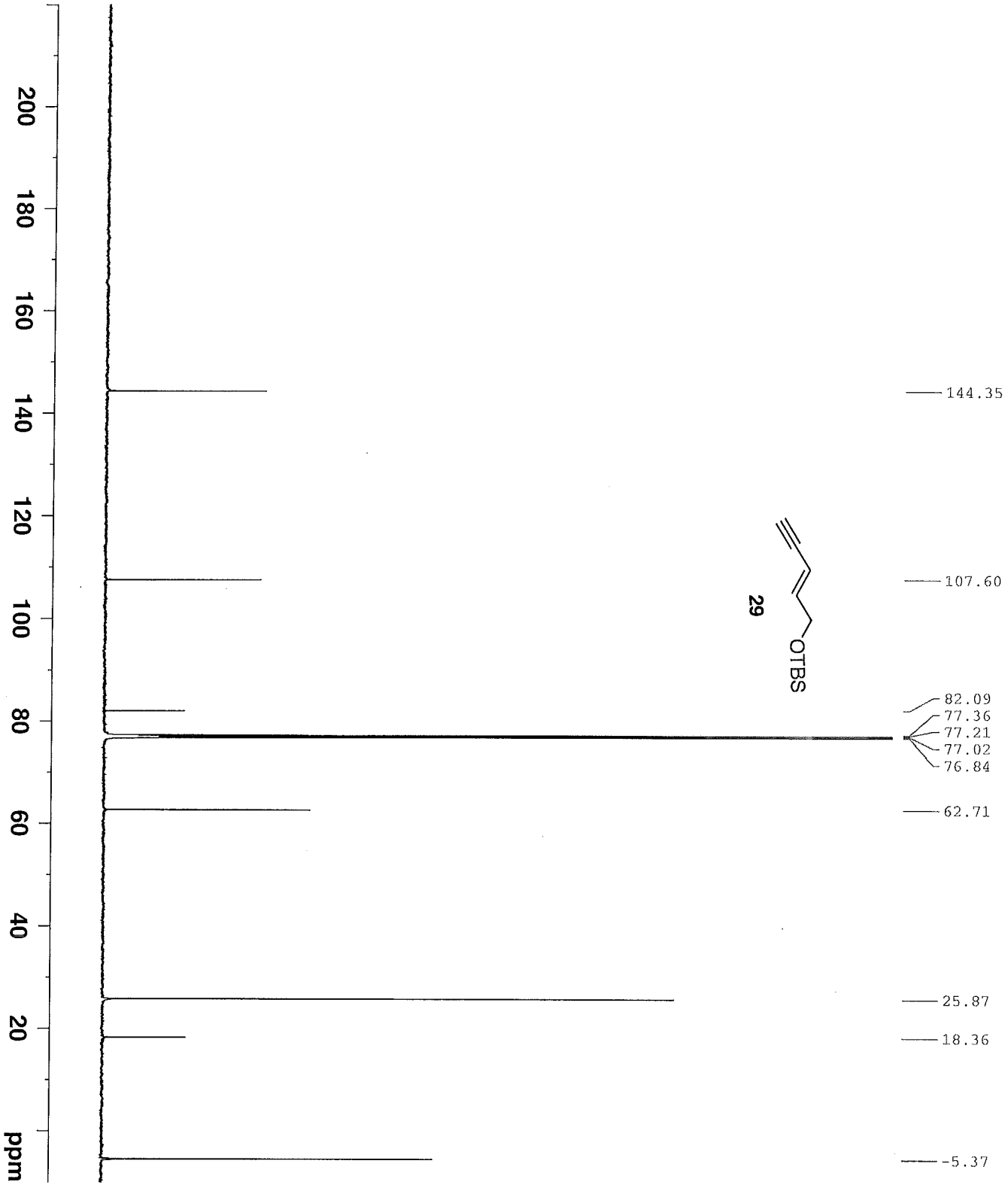
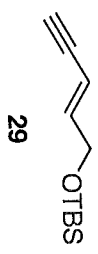
ppm

```

NAME          SUM-TIT-26-TRBS Eth
EXPNO         4
PROCNO        1
Date_         20130211
Time          1.52
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            14
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            18
DE            42.000 use
TE            298.1 K
D1            2.00000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          1H
P1            9.40 use
PL1          -3.20 dB
PL1W         33.59817505 W
SF01         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW          EM
SSB           0
LB           0.30 Hz
GB           0
PC           1.00
  
```

TBS Ether



144.35
107.60
82.09
77.36
77.21
77.02
76.84
62.71
25.87
18.36
55.37

```

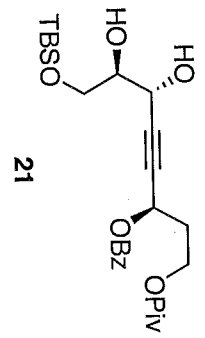
NAME          SUM-III-26-TBS Eth.
EXPNO         5
PROCNO        1
Date_         20130211
Time          2.02
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            100
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W         38.14553833 W
SF01         176.0706238 MHz

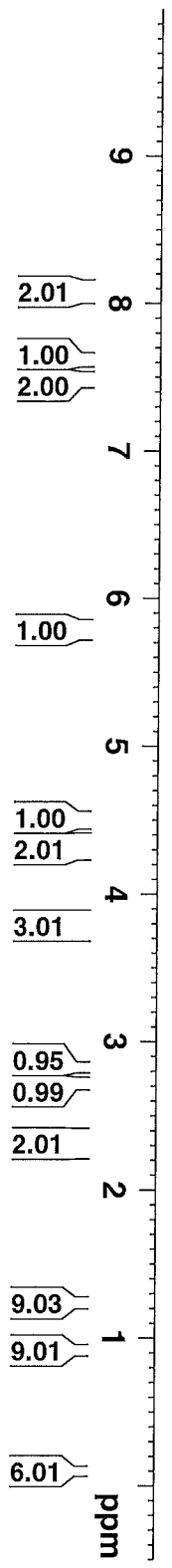
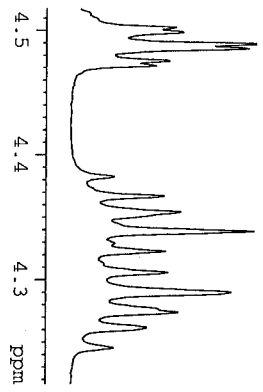
===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SF02         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```

Diol

- 8.086
- 8.083
- 8.066
- 8.062
- 7.610
- 7.591
- 7.496
- 7.477
- 7.461
- 7.458
- 7.291
- 5.782
- 4.502
- 4.498
- 4.489
- 4.485
- 4.354
- 4.338
- 4.290
- 4.274
- 3.838
- 3.825
- 3.813
- 3.799
- 3.787
- 3.768
- 3.765
- 3.762
- 3.757
- 3.744
- 3.731
- 2.830
- 2.827
- 2.822
- 2.817
- 2.814
- 2.722
- 2.707
- 2.337
- 2.319
- 2.303
- 2.286
- 1.224
- 0.909
- 0.095
- 0.086



21

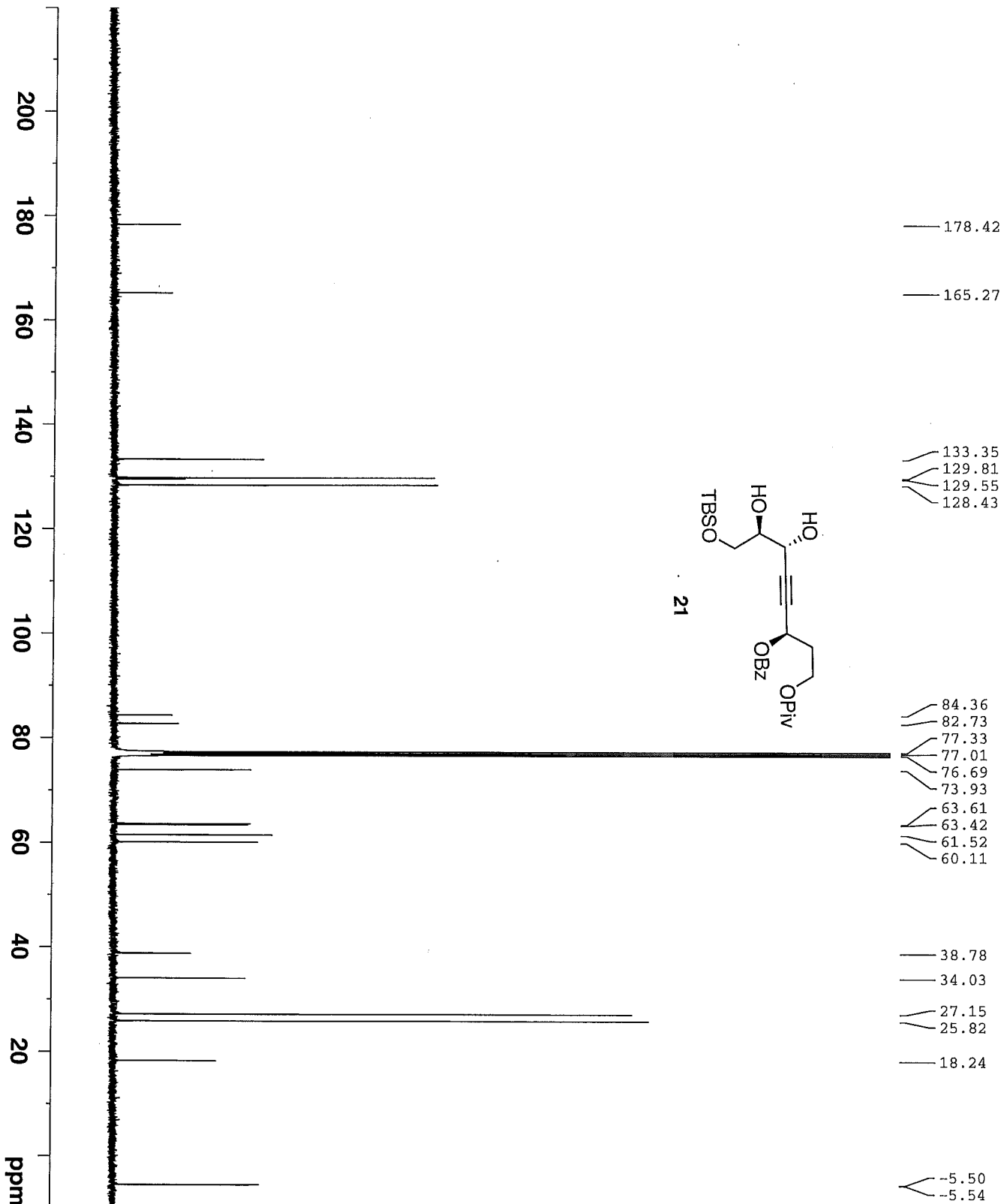
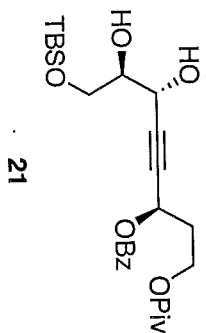


```

NAME          SM-VI-80-R-Diol
EXPNO         3
PROCNO        1
Date_         20100425
Time          23.00
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENT       CDCl3
NS            32
DS            2
SWH           6410.256 Hz
FIDRES       0.195625 Hz
AQ           2.5559540 sec
RG           128
DW           78.000 usec
DE           6.50 usec
TE           300.1 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           14.00 usec
PL1          0.00 dB
PL1W         10.27361584 W
SFO1         400.1378009 MHz
SI           32768
SF           400.1350000 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00

```



NAME	SM-VI-80-R-Diol
EXPNO	4
PROCNO	1
Date_	20100425
Time	23.12
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	9810
DS	4
SWH	25125.629
FIDRES	0.383387
AQ	1.3042164
RG	16384
DW	19.900
DE	6.50
TE	301.3
D1	2.00000000
D11	0.03000000
TD0	1

==== CHANNEL F1 =====	
NUC1	13C
P1	9.00
PL1	-2.00
PL1W	46.89702606
SFO1	100.6255966

==== CHANNEL F2 =====	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00
PL2	0.00
PL12	16.16
PL13	17.00
PL2W	10.27361584
PL12W	0.24872722
PL13W	0.20498557
SFO2	400.1366005
SI	32768
SF	100.6140260
WDW	EM
SSB	0
LB	1.00
GB	0
PC	1.40

Dihydroxyran

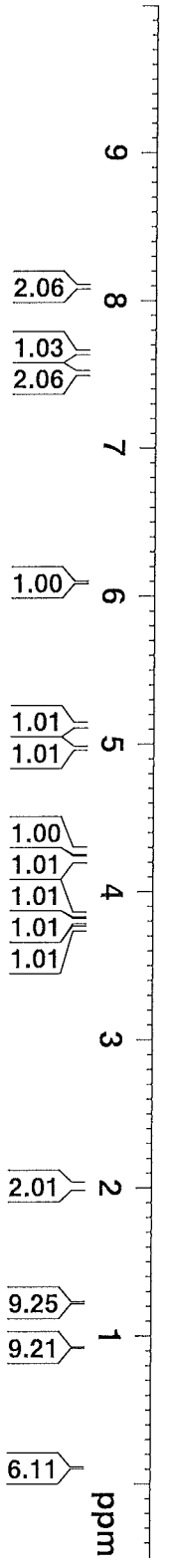
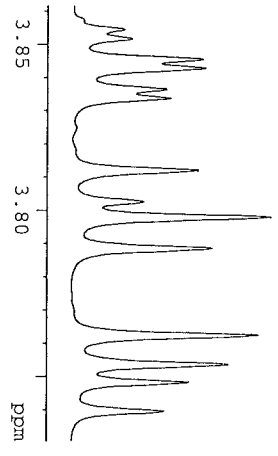
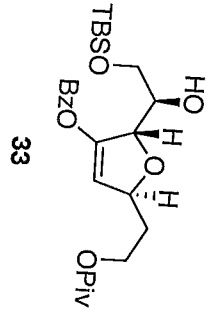
- 8.099
- 8.087
- 7.651
- 7.649
- 7.640
- 7.638
- 7.508
- 7.290

- 6.096
- 6.093
- 6.091
- 5.130
- 5.122
- 4.975
- 4.967
- 4.285
- 4.277
- 4.269
- 4.224
- 3.845
- 3.843
- 3.812
- 3.798
- 3.788
- 3.762
- 3.754

- 2.024
- 2.015
- 2.006

- 1.224
- 0.922

- 0.108
- 0.104

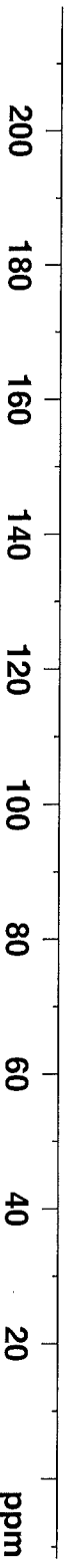
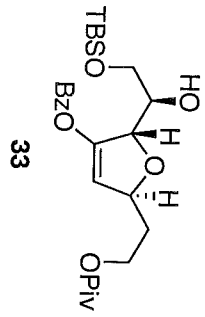


```

SUM-X-12-Dihydroxyran
NAME
EXPNO 1
PROCNO 1
Date_ 20110126
Time 19.34
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWH 11904.762 Hz
FIDRES 0.181652 Hz
AQ 2.7525620 sec
RG 45.2
DE 42.000 usec
TE 16.50 usec
D1 298.2 K
D1 2.00000000 sec
===== CHANNEL f1 =====
NUC1 1H
P1 9.40 usec
PL1 -3.20 dB
PL1W 33.59817505 W
SF01 700.1245508 MHz
SI 65536
SF 700.1200000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00
  
```

Dihydroxyran

- 178.60
- 163.49
- 144.76
- 133.95
- 130.09
- 128.74
- 128.70
- 112.54
- 81.88
- 80.65
- 77.24
- 77.06
- 76.88
- 71.27
- 63.90
- 61.01
- 38.74
- 35.56
- 27.22
- 25.91
- 18.37
- 5.33



```

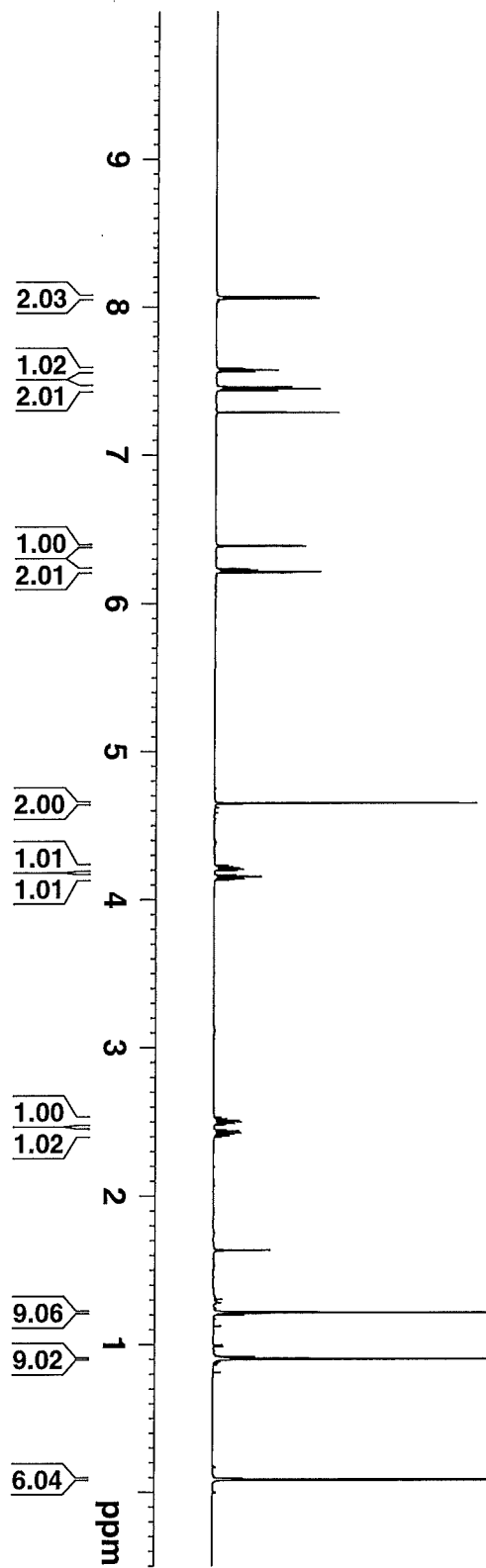
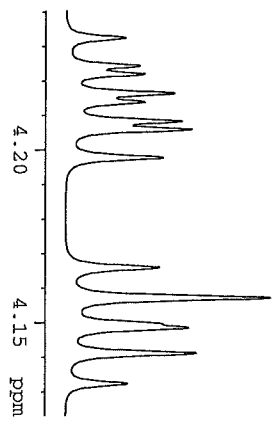
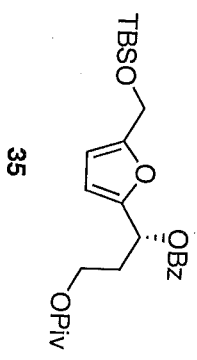
NAME                               SUM-X-12-Dihydroxyr.
EXPNO                               2
PROCNO                               1
Date_                                20110126
Time                                 19.47
INSTRUM                             spect
PROBHD                              13C
PULPROG                             zgpg30
TD                                    98304
SOLVENT                             CDCl3
NS                                    224
DS                                    4
SWH                                  41666.668 Hz
FIDRES                              0.423855 Hz
AQ                                   1.1796980 sec
RG                                   203
DW                                   12.000 usec
DE                                   15.00 usec
TE                                   298.2 K
D1                                   2.00000000 sec
D11                                  0.03000000 sec
TD0                                  1

===== CHANNEL f1 =====
NUC1                                  13C
P1                                   9.00 usec
PL1                                  4.50 dB
PL1W                                 38.14553833 W
SFO1                                 176.0629186 MHz

===== CHANNEL f2 =====
CPDPRG2                             waltz16
NUC2                                  1H
PCPD2                                65.00 usec
PL2                                  -3.20 dB
PL12                                 13.60 dB
PL13                                 120.00 dB
PL2W                                 33.59817505 W
PL12W                                0.70196527 W
PL13W                                0.00000000 W
SFO2                                 700.1228005 MHz
SI                                    131072
SF                                    176.0453140 MHz
WDW                                   EM
SSB                                   0
LB                                    3.00 Hz
GB                                    0
PC                                    1.40
  
```

Ag-Cyclization (Top Spot)

- 8.070
- 8.068
- 8.058
- 8.056
- 7.585
- 7.576
- 7.575
- 7.573
- 7.564
- 7.459
- 7.448
- 7.447
- 7.437
- 7.288
- 6.391
- 6.386
- 6.235
- 6.226
- 6.223
- 6.215
- 6.210
- 4.650
- 4.224
- 4.222
- 4.216
- 4.214
- 4.208
- 4.206
- 4.198
- 4.166
- 4.157
- 4.148
- 4.141
- 2.510
- 2.502
- 2.490
- 2.439
- 2.437
- 2.430
- 2.428
- 2.418
- 2.408
- 1.217
- 0.903
- 0.088
- 0.085

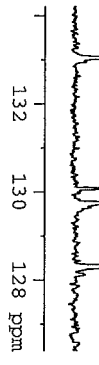
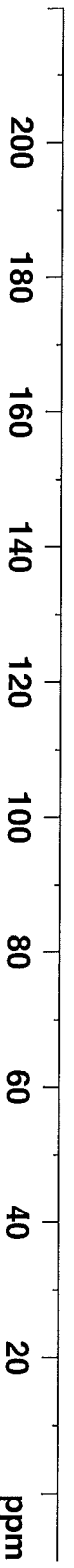
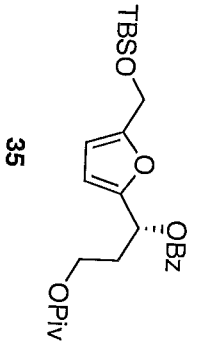


NAME	EXPNO	PROCNO	Date_	Time	INSTRUM	PROBHD	PULPROG	TD	SOLVENT	NS	DS	SWH	FIDRES	AO	RG	DW	DE	TE	D1	TD0
SDM-XV-66-Ag-Cyclizati	1	1	20120626	22.15	spec	5 mm PABBO BB-	zg30	95236	CDCl3	32	2	11904.762 Hz	0.125003 Hz	3.9999621 sec	114	42.000 usec	6.50 usec	289.9 K	2.00000000 sec	1

===== CHANNEL f1 =====	NUC1	1H
	P1	13.75 usec
	PL1	-3.00 dB
	PL1W	32.08600616 W
	SFO1	700.1516910 MHz
	SI	131072
	SF	700.1471400 MHz
	WDW	EM
	SSB	0
	LB	0.30 Hz
	GB	0
	PC	1.00

Ag-Cyclization (Top Spot)

- 178.35
- 165.53
- 154.75
- 151.14
- 133.04
- 130.07
- 129.74
- 128.31
- 109.84
- 107.90
- 77.18
- 77.00
- 76.82
- 66.32
- 60.48
- 58.23
- 38.74
- 31.89
- 27.15
- 25.81
- 18.33
- 5.24
- 5.26

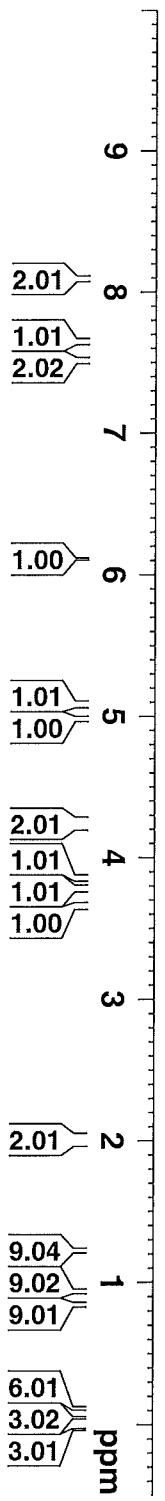
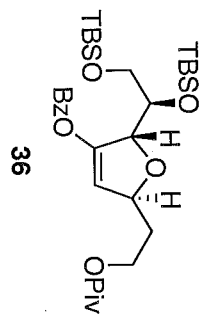
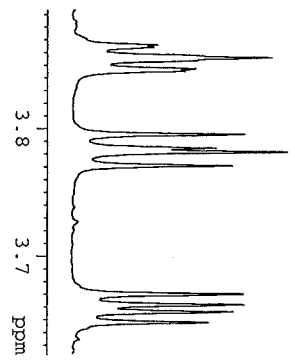


```

NAME          SUM-XV-66-Ag-Cyclizati
EXPNO         3
PROCNO        1
Date_         20120626
Time_         22.50
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            578
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DE            12.000 usec
TE            294.2 K
D1            2.0000000 sec
D11           0.03000000 sec
TD0           1
===== CHANNEL f1 =====
NUC1          13C
P1            9.30 usec
PL1           2.00 dB
PL1W          67.83342743 W
SF01          176.0706238 MHz
===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        80.00 usec
PL2           3.00 dB
PL12         12.30 dB
PL13         12.30 dB
PL1W         32.08600616 W
PL12W        0.94692516 W
PL13W        0.94692516 W
SF02          700.1499406 MHz
SI           32768
SF            176.0521380 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
    
```


bis-TBS Ether

8.098
8.097
8.087
8.085
7.659
7.648
7.637
7.526
7.515
7.503
7.290
6.110
6.108
5.089
5.081
4.986
4.978
4.267
4.260
4.251
4.242
4.239
4.230
4.220
3.855
3.846
3.795
3.784
3.781
3.770
3.670
3.662
3.656
3.648
2.019
2.009
1.999
1.220
0.939
0.847
0.114
0.113
0.050
0.033

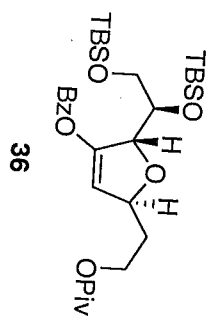
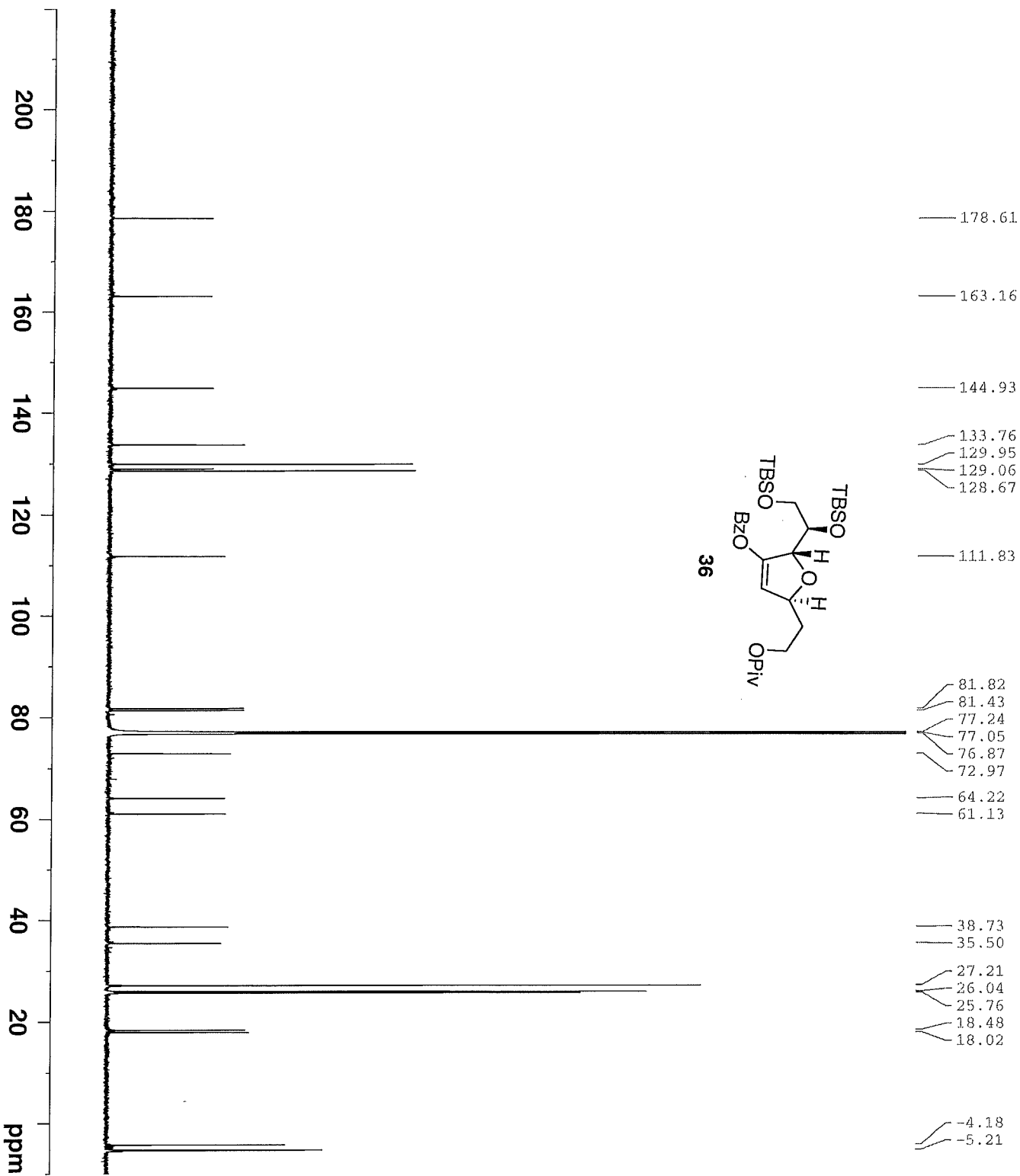


```

NAME          SUM-XI-77-bis-TBS ECh
EXPNO         1
PROCNO        1
Date_         20110609
Time         22.08
INSTRUM       spect
PROBHD        PULPROG
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.181652 Hz
AQ            2.7525620 sec
RG            45.2
DW            42.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1245508 MHz
SI           65536
SF           700.1200000 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

bis-TBS Ether



```

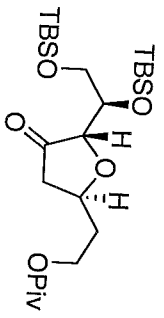
NAME          SUM-XI-77-bis-TBS Eth
EXPNO         2
PROCNO       1
Date_        20110609
Time         22.20
INSTRUM     spect
PROBHD      5 mm CPDCH 13C
PULPROG     zgpg30
TD          98304
SOLVENT     CDCl3
NS          133
DS          4
SWH         41666.668 Hz
FIDRES     0.423855 Hz
AQ         1.1796980 sec
RG          203
DW         12.000 usec
DE         15.00 usec
TE         298.2 K
D1         2.0000000 sec
D11        0.0300000 sec
TD0         1

===== CHANNEL f1 =====
NUC1        13C
P1          9.00 usec
PL1         4.50 dB
PL1W       38.14553833 W
SFO1       176.0637988 MHz

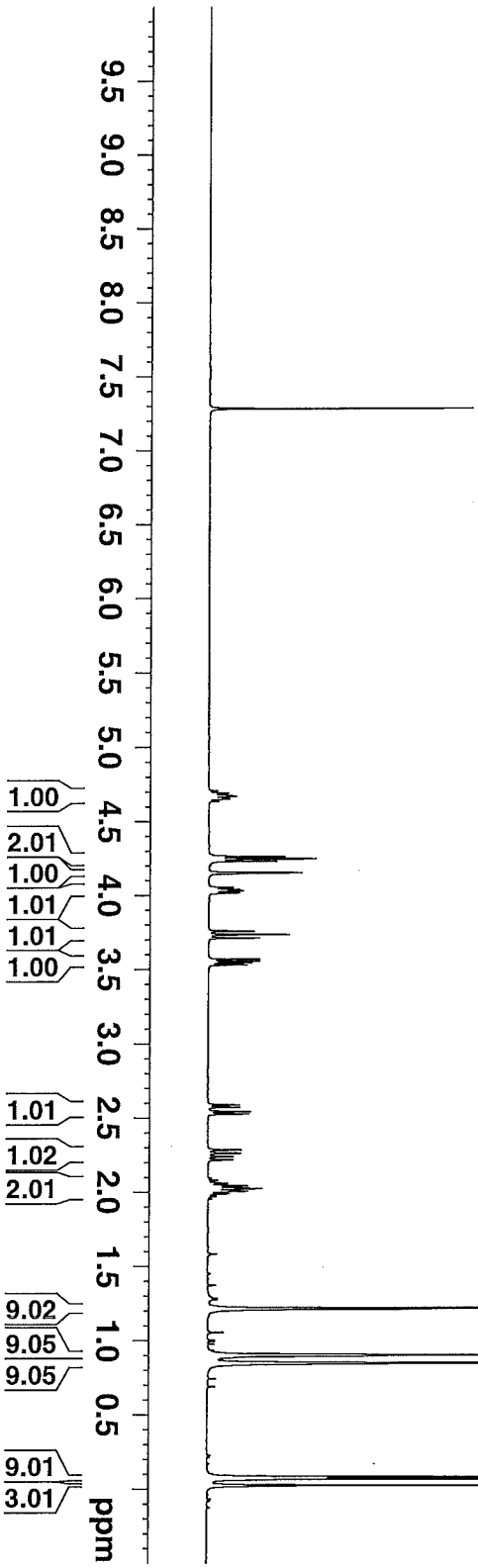
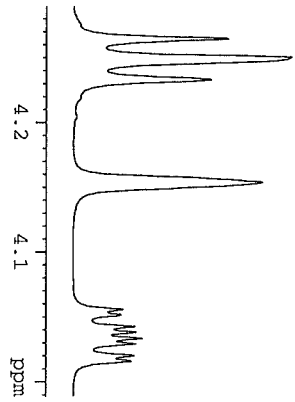
===== CHANNEL f2 =====
CPDPRG2     waltz16
NUC2        1H
PCPD2       65.00 usec
PL2         -3.20 dB
PL12       13.60 dB
PL13       120.00 dB
PL2W       33.59817505 W
PL12W      0.70196527 W
PL13W      0.00000000 W
SFO2       700.1228005 MHz
SI         131072
SF         176.0453140 MHz
WDW        EM
SSB        0
LB         3.00 Hz
GB         0
PC         1.40
    
```

Ketone

7.282
4.673
4.264
4.249
4.233
4.153
4.055
4.051
4.042
4.038
4.033
4.029
4.020
4.016
3.759
3.736
3.713
3.570
3.556
3.546
3.533
2.590
2.574
2.545
2.529
2.287
2.284
2.264
2.262
2.242
2.239
2.219
2.217
2.045
2.040
2.026
2.022
2.007
1.990
1.216
0.902
0.848
0.082
0.080
0.068
0.025



20



```

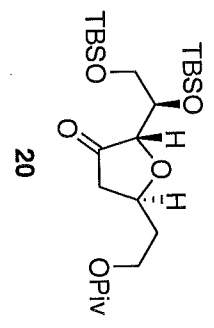
NAME          SUM-X-21-R-Piv Protecti
EXPNO         1
PROCNO        1
Date_         20110128
Time         21.53
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENT       CDCl3
NS            32
DS            2
SWH           6793.478 Hz
FIDRES        0.207320 Hz
AQ            2.4117749 sec
RG            90.5
DW            73.600 usec
DE            6.50 usec
TE            298.7 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            14.00 usec
PL            0.00 dB
SFO1          400.1424008 MHz
SI            32768
SF            400.1400000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00

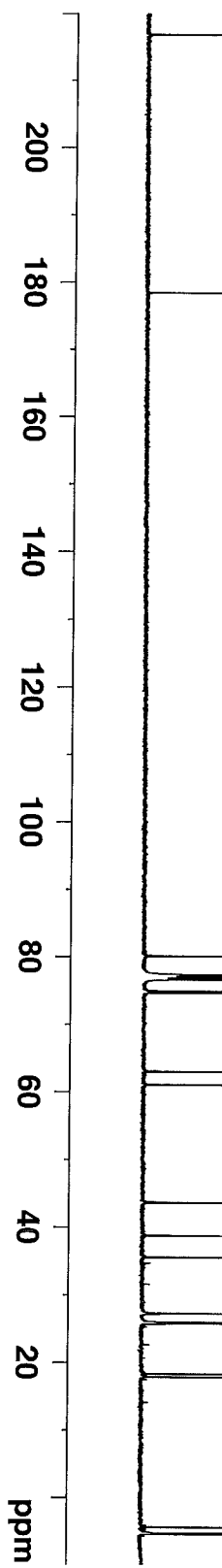
```

Ketone

216.83
178.43



80.13
77.33
77.01
76.69
74.94
74.70
63.00
61.04
43.64
38.71
35.53
27.20
25.90
25.74
18.30
17.83
4.42
5.27



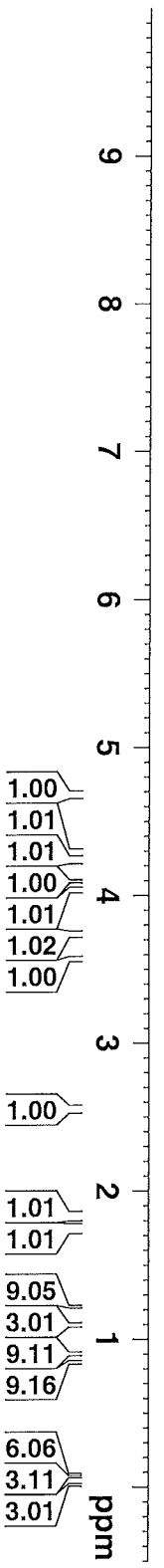
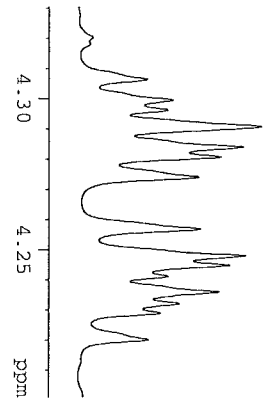
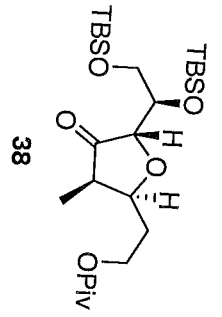
NAME	SM-IV-97-R-Ketor
EXPNO	3
PROCNO	1
Date_	20100423
Time	23.43
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	10240
DS	4
SWH	25125.629 F
FIDRES	0.383387 F
AQ	1.3042164 s
RG	18390.4
DW	19.900 u
DE	6.50 u
TE	301.0 K
D1	2.00000000 s
D11	0.03000000 s
TD0	1

===== CHANNEL F1 =====	
NUC1	13C
P1	9.00 u
PL1	-2.00 C
PL1W	46.89702606 W
SFO1	100.6255966 W

===== CHANNEL F2 =====	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 u
PL2	0.00 C
PL12	16.16 C
PL13	17.00 C
PL2W	10.27361584 W
PL12W	0.24872722 W
PL13W	0.20498557 W
SFO2	400.1366005 W
SI	32768
SF	100.6140260 W
WDW	EM
SSB	0
LB	1.00 F
GB	0
PC	1.40

Alpha Methyl Ketone

- 7.288
- 4.685
- 4.680
- 4.676
- 4.290
- 4.284
- 4.280
- 4.257
- 4.248
- 4.245
- 4.236
- 4.099
- 4.043
- 4.040
- 4.038
- 3.750
- 3.737
- 3.724
- 3.578
- 3.570
- 3.564
- 3.557
- 2.562
- 2.552
- 2.541
- 1.837
- 1.831
- 1.827
- 1.825
- 1.821
- 1.764
- 1.756
- 1.750
- 1.742
- 1.222



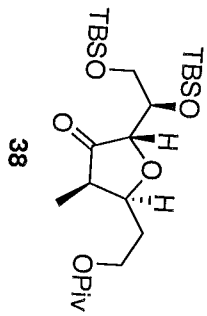
- 1.00
- 1.01
- 1.01
- 1.00
- 1.01
- 1.02
- 1.00
- 1.00
- 1.01
- 1.01
- 9.05
- 3.01
- 9.11
- 9.16
- 6.06
- 3.11
- 3.01

```

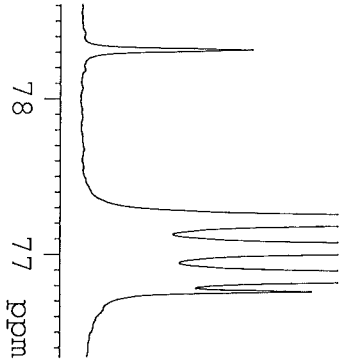
NAME          SUM-IV-60-Methylati
EXPNO         4
PROCNO       1
Date_        20120716
Time         22.43
INSTRUM      spect
PROBHD       5 mm CPDCH 13C
PULPROG      zg30
TD           95236
SOLVENT      CDCl3
NS           32
DS           2
SWH          11904.762 Hz
FIDRES      0.125003 Hz
AQ          3.9999621 sec
RG           32
DE           42.000 usec
TE           6.50 usec
D1           295.3 K
TD0          2.00000000 sec
===== CHANNEL f1 =====
NUC1         1H
P1           9.40 usec
PL1         -3.20 dB
PL1W        33.59817505 W
SFO1        700.1516910 MHz
SI          131.072
SF          700.1471400 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Alpha Methyl Ketone

218.97
178.55



78.31
77.22
77.04
76.86
76.76
73.93
63.05
61.33
45.68
38.73
29.90
27.23
25.91
25.80
18.32
17.95
9.64
-4.34
-5.24



```

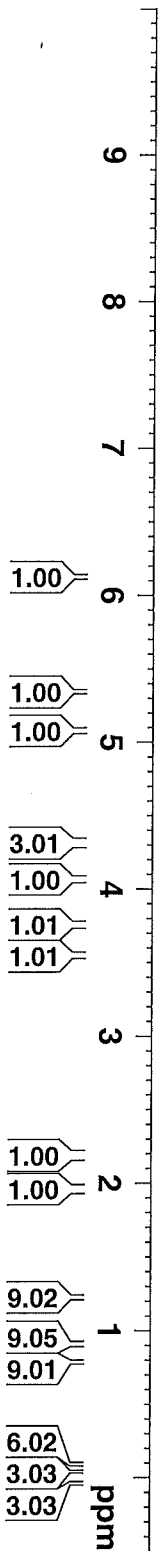
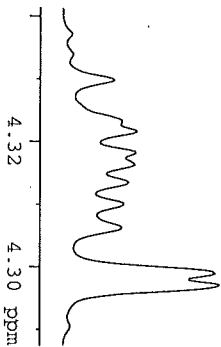
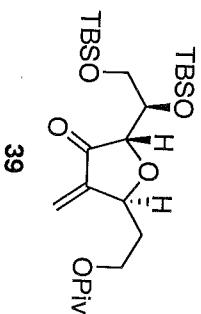
NAME                               SUM-IV-60-Methylati.
EXPNO                               5
PROCNO                               1
Date_                               20120716
Time                                 23.00
INSTRUM                             spect
PROBHD                               5 mm CPDCH 13C
PULPROG                             zgpg30
TD                                   65536
SOLVENT                               CDCl3
NS                                   376
DS                                   4
SWH                                  41666.668 Hz
FIDRES                              0.635783 Hz
AQ                                   0.7864820 sec
RG                                   203
DM                                   12.000 usec
DE                                   16.50 usec
TE                                   295.2 K
D1                                   2.00000000 sec
D11                                  0.03000000 sec
TD0                                  1

===== CHANNEL F1 =====
NUC1                                  13C
P1                                   9.00 usec
PL1                                  4.50 dB
PL1W                                 38.14553833 W
SFO1                                 176.0706238 MHz

===== CHANNEL F2 =====
CPDPRG2                             waltz16
NUC2                                  1H
PCPD2                                65.00 usec
PL2                                  -3.20 dB
PL13                                 13.60 dB
PL12                                 120.00 dB
PL2W                                 33.59817505 W
PL12W                                0.70196527 W
PL13W                                0.00000000 W
SFO2                                 700.1499406 MHz
SI                                   32768
SF                                   176.0521380 MHz
WDW                                   EM
SSB                                   0
LB                                   3.00 Hz
GB                                   0
PC                                   1.40
    
```

Enone

7.290
6.131
6.127
5.347
5.343
5.088
5.083
5.079
5.075
5.071
4.330
4.322
4.318
4.316
4.313
4.310
4.306
4.299
4.297
4.079
4.077
4.072
4.070
4.067
4.064
4.059
4.057
3.772
3.759
3.745
3.558
3.550
3.544
3.536
2.176
1.978
1.965
1.957
1.224
0.911
0.787
0.093
0.090
0.041
-0.038



```

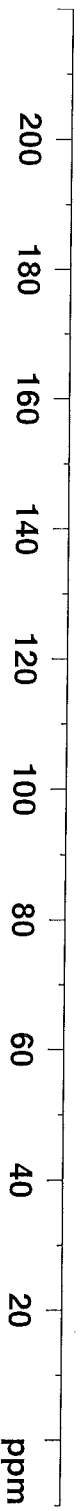
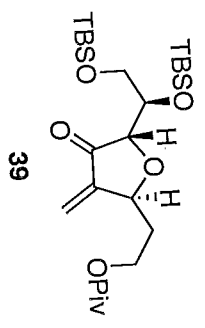
NAME          SUM-X-18-Enone
EXPNO         1
PROCNO        1
Date_         20110131
Time         16.51
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            65536
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.181652 Hz
AQ            2.7525620 sec
RG            45.2
DW            42.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1245508 MHz
SI           65536
SF           700.1200000 MHz
WDW           EM
SSB           0
LB           0.30 Hz
GB           0
PC           1.00

```

Enone

- 205.65
- 178.56
- 145.15
- 116.82
- 80.37
- 77.23
- 77.05
- 76.87
- 74.93
- 63.02
- 60.55
- 38.77
- 34.88
- 27.22
- 25.93
- 25.64
- 18.36
- 17.87
- 4.40
- 5.35



```

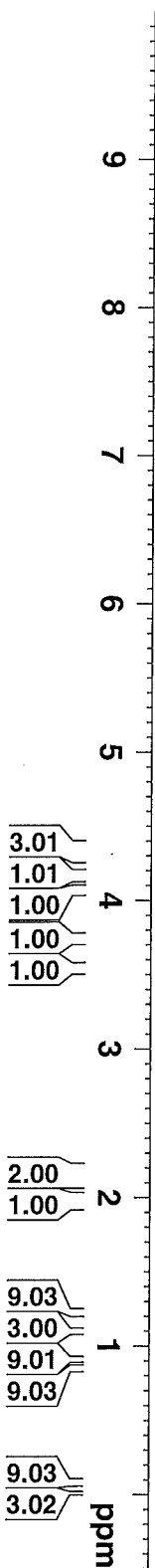
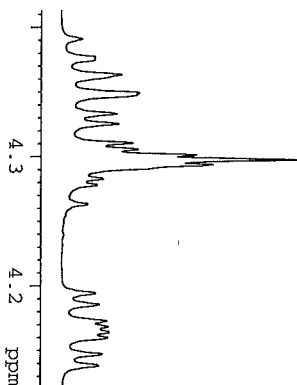
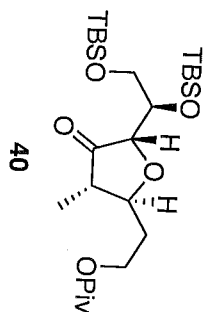
NAME SUM-X-18-Enone
EXPNO 2
PROCNO 1
Date_ 20110131
Time 16.58
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zgpg30
TD 98304
SOLVENT CDC13
NS 269
DS 4
SWH 41666.668 Hz
FIDRES 0.423855 Hz
AQ 1.1796980 sec
RG 203
DE 12.000 usec
TE 298.2 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 4.50 dB
PL1W 38.14553833 W
SFO1 176.0637988 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 65.00 usec
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL2W 33.59817505 W
PL12W 0.70196527 W
PL13W 0.00000000 W
SFO2 700.1228005 MHz
SI 131072
SF 176.0453140 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
    
```


Alpha-Me-Ketone

7.292
4.363
4.349
4.347
4.333
4.325
4.310
4.305
4.301
4.297
4.293
4.173
4.168
4.164
4.160
4.091
4.087
4.078
4.074
4.067
4.063
4.055
4.051
3.766
3.742
3.719
3.562
3.550
3.539
3.526
2.179
2.156
2.153
2.126
2.007
1.985
1.971
1.228
1.106
1.088
0.909
0.854
0.090
0.087
0.079
0.009

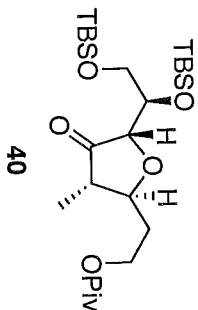


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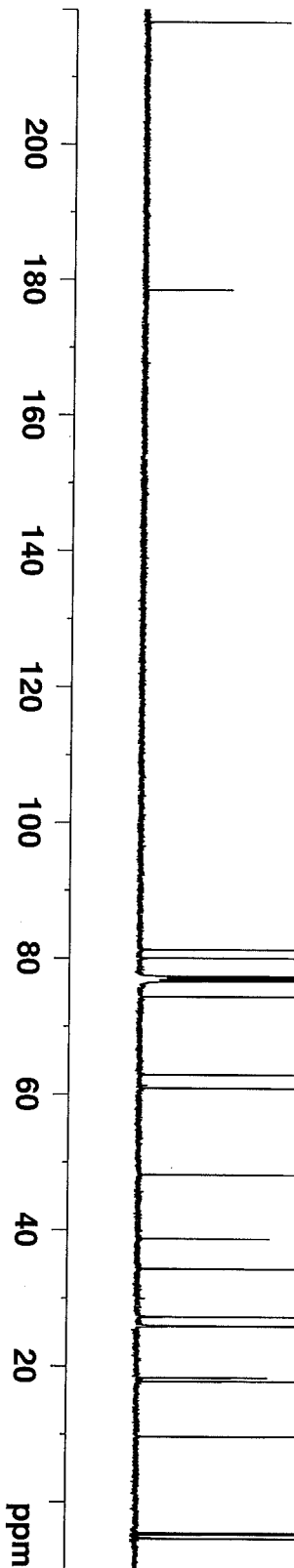
NAME SM-VII-10-R-Hydrogenat-I
EXPNO 4
PROCNO 1
Date_ 20100512
Time 22.39
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 32768
SOLVENT CDC13
NS 32
DS 2
SWH 6410.256 Hz
FIDRES 0.195625 Hz
AQ 2.5559540 sec
RG 90.5
DM 78.000 usec
DE 6.50 usec
TE 299.4 K
D1 2.00000000 sec
TD0 1
===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL 0.00 dB
PL1W 10.27361584 W
SF01 400.1378009 MHz
SI 32768
SF 400.1350000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00
    
```

Alpha-Me-Ketone

218.08
178.49



81.30
80.02
77.32
77.01
76.69
74.37
62.89
60.91
48.11
38.71
34.28
27.21
25.90
25.85
18.30
17.78
9.65
4.58
4.80



```

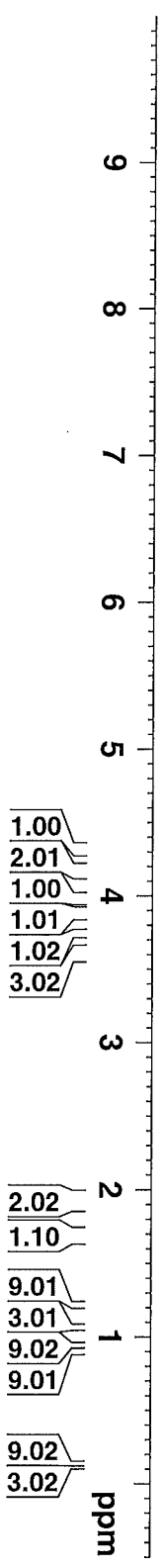
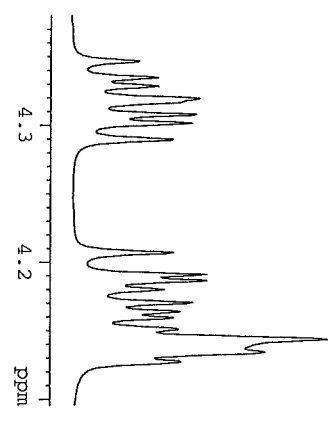
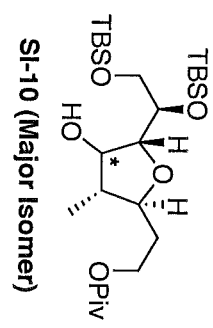
NAME SM-VII-10-R-Hydrogena
EXPNO 5
PROCNO 1
Date_ 20100512
Time 22.56
INSTRUM spect
PROBHD PABBO BP-
PULPROG zgpg30
TD 65536
SOLVENTH CDCl3
NS 10240
DS 4
SWH 25125.629 Hz
FIDRES 0.333387 Hz
AQ 1.3042164 sec
RG 20642.5
DM 19.900 usec
DE 6.50 usec
TE 300.6 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 -2.00 dB
PL1W 46.89702606 W
SFO1 100.6255966 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 0.00 dB
PL12 16.16 dB
PL13 17.00 dB
PL2W 10.27361584 W
PL12W 0.24872722 W
PL13W 0.20498557 W
SFO2 400.1366005 MHz
SI 32768
SF 100.6140260 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
    
```

Alcohol (Major Isomer)

7.291	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.319	1.057	0.940	0.906	0.137	0.134	0.130	0.110
4.307	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.301	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.191	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.186	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.170	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.159	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.151	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.143	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.134	1.074	0.940	0.906	0.137	0.134	0.130	0.110
4.127	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.985	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.977	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.965	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.955	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.884	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.878	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.751	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.744	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.731	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.724	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.641	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.626	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.616	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.609	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.587	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.572	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.569	1.074	0.940	0.906	0.137	0.134	0.130	0.110
3.562	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.934	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.924	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.918	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.906	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.899	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.680	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.675	1.074	0.940	0.906	0.137	0.134	0.130	0.110
1.216	1.074	0.940	0.906	0.137	0.134	0.130	0.110



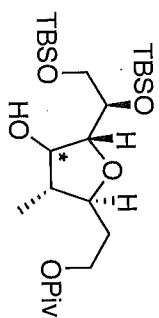
SM-VII-12-R-Alcoh

NAME	SM-VII-12-R-Alcoh
EXPNO	2
PROCNO	1
Date_	20100518
Time	10.56
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	32
DS	2
SWH	6410.256 Hz
FIDRES	0.195625 Hz
AQ	2.5559540 sec
RG	35.9
DW	78.000 usec
DE	6.50 usec
TE	299.0 K
D1	2.00000000 sec
TD0	1

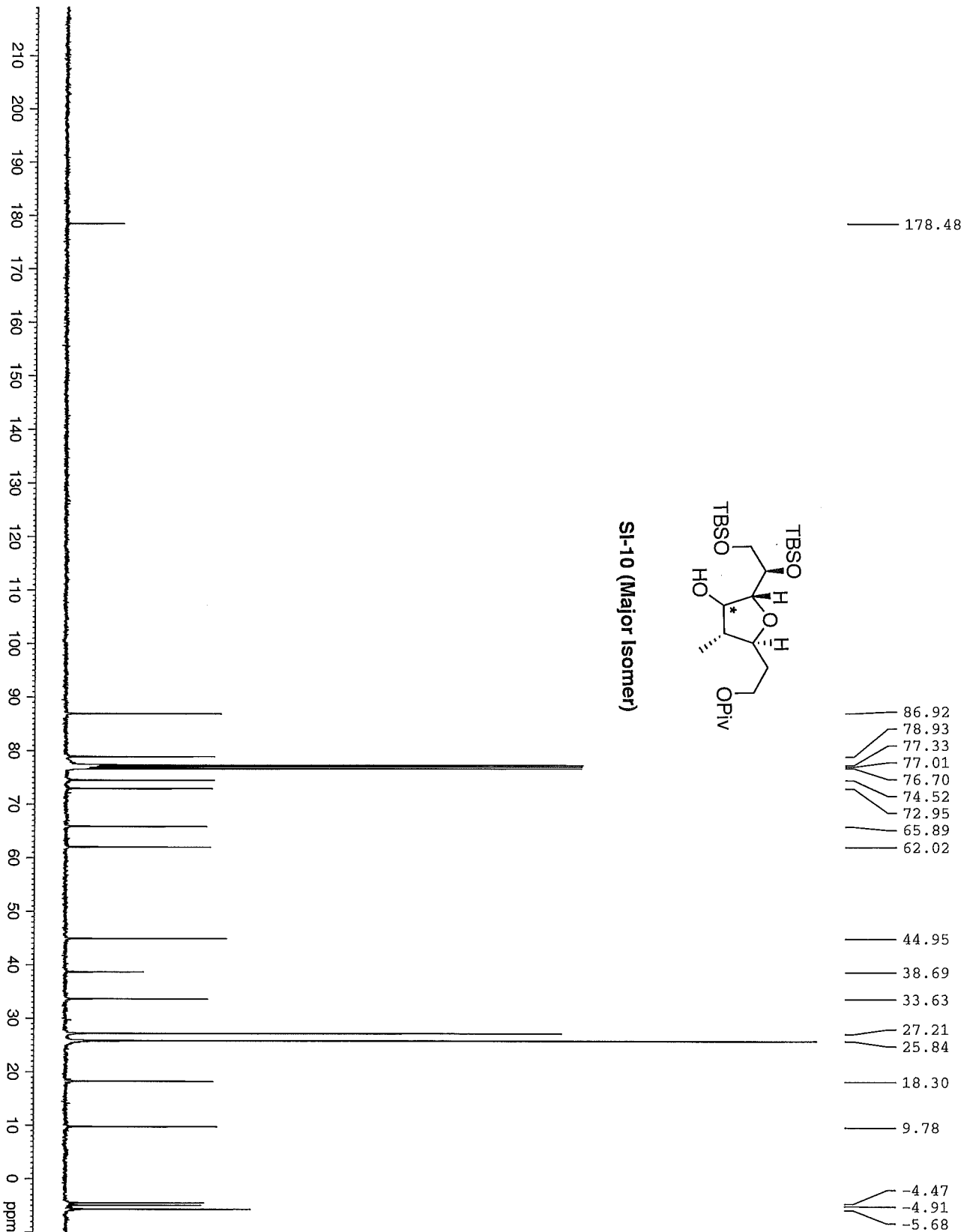
==== CHANNEL f1 =====

NUC1	1H
P1	14.00 usec
PL1	0.00 dB
PL1W	10.27361584 W
SFO1	400.1378009 MHz
SI	32768
SF	400.1350000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Alcohol (Major Isomer)



SI-10 (Major Isomer)



```

Current Data Parameters
NAME          SDM-VIT-12-Alcoh
EXPNO        5
PROCNO       1
DU           /m
USER         Subham

F2 - Acquisition Parameters
Date_        20100517
Time         20.24
INSTRUM     DPX400
PROBHD      5 mm BBO BB-1H
PULPROG     zgpg30
TD           65536
SOLVENT     CDCl3
NS           2314
DS           4
SWH          23980.814 Hz
FIDRES       0.365918 Hz
AQ           1.3664756 s
RG           3649.1
DW           20.850 us
DE           6.00 us
TE           300.2 K
D1           2.00000000 s
d11          0.03000000 s
DELTA       1.89999998 s
TD0          1

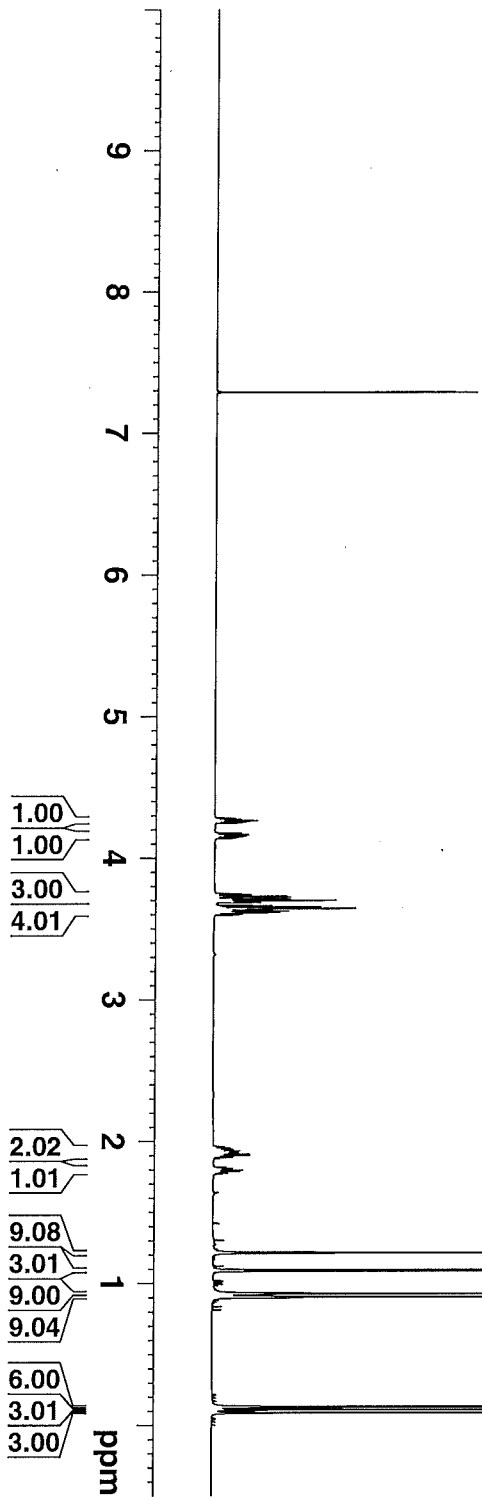
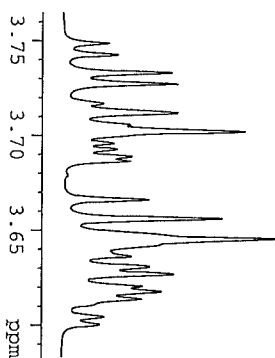
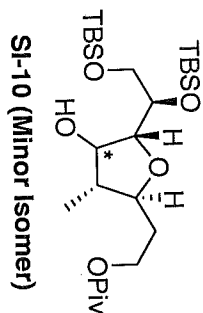
===== CHANNEL f1 =====
NUC1         13C
P1           8.30 us
PL1         -3.00 dB
SFO1        100.6517495 MHz

===== CHANNEL f2 =====
CPDPRG2     waltz16
NUC2         1H
PCPD2       90.00 us
PL2         -3.00 dB
PL12        15.00 dB
PL13        15.00 dB
SFO2        400.2466010 MHz

F2 - Processing parameters:
SI           32768
SF           100.6416850 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```

Minor Alcohol

7.290
4.266
4.260
4.257
4.169
4.166
4.157
4.154
3.748
3.742
3.733
3.727
3.717
3.712
3.705
3.702
3.696
3.693
3.689
3.686
3.666
3.656
3.645
3.636
3.631
3.627
3.620
3.618
3.614
3.604
1.933
1.911
1.902
1.798
1.790
1.215
1.096
1.087
0.929
0.905
0.134
0.129
0.111
0.088



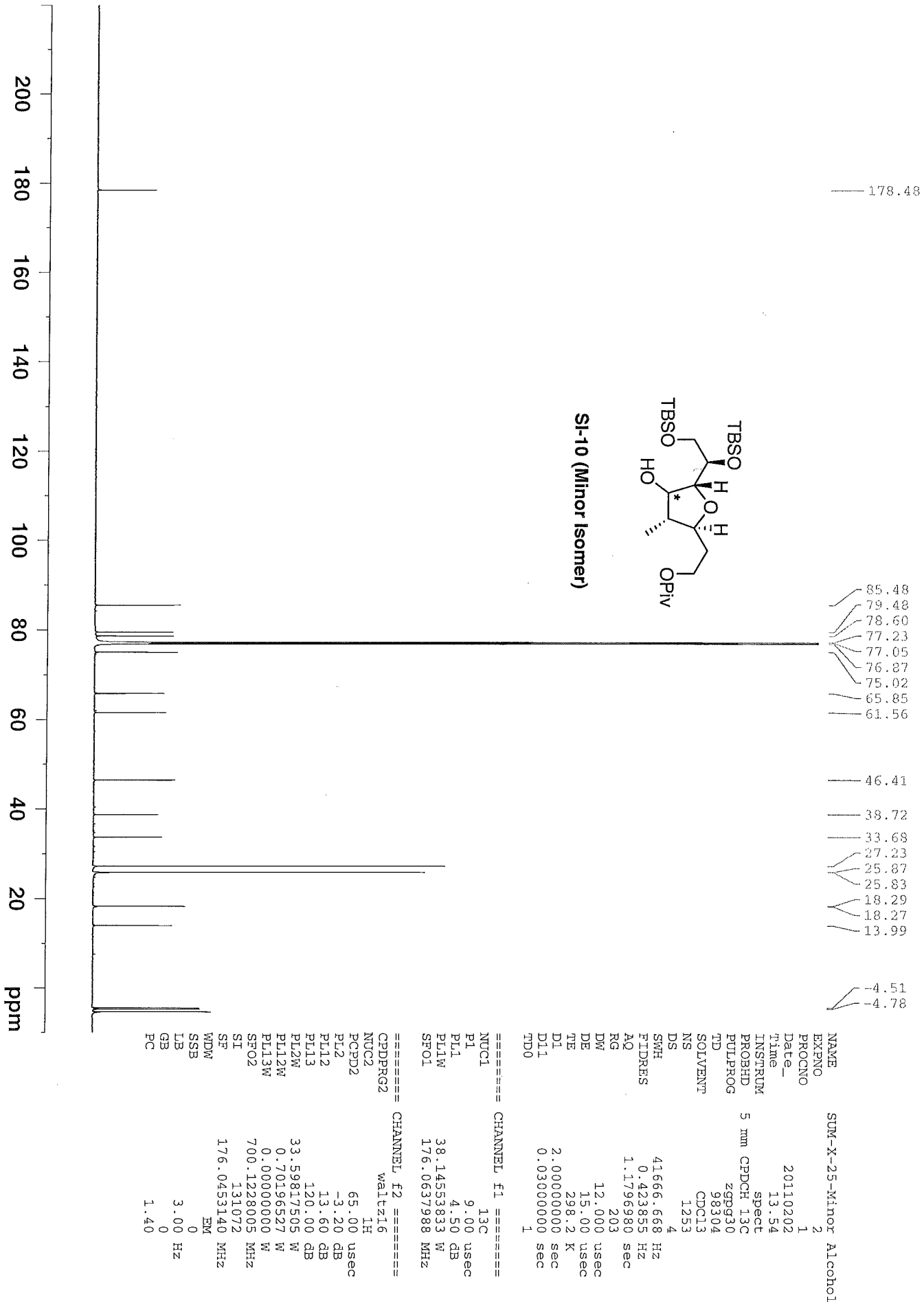
SUM-X-25-Minor Alcoh

NAME	EXPNO	1
PROCN0	1	
Date_	20110202	
Time	13.38	
INSTRUM	spect	
PROBHD	13C	
PULPROG	zg30	
TD	65536	
SOLVENT	CDCl3	
NS	32	
DS	2	
SWH	11904.762	Hz
FIDRES	0.181652	Hz
AQ	2.7525620	sec
RG	50.8	
DW	42.000	usec
DE	16.50	usec
TE	298.2	K
D1	2.00000000	sec
TD0	1	

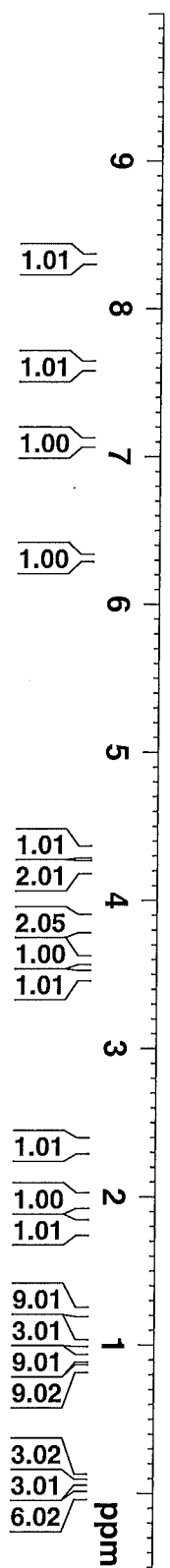
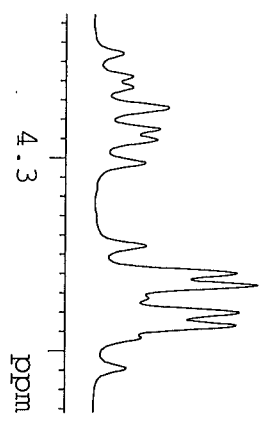
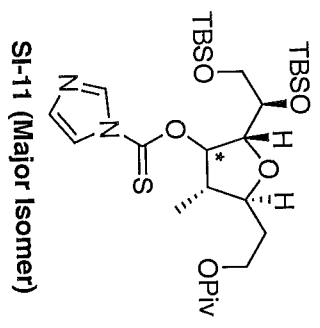
==== CHANNEL F1 =====

NUC1	1H	
P1	9.40	usec
PL1	-3.20	dB
PL1W	33.59817505	W
SFO1	700.1245508	MHz
SI	65536	
SF	700.1200000	MHz
WDW	EM	
SSB	0	
LB	0.30	Hz
GB	0	
PC	1.00	

Minor Alcohol



8.336
7.609
7.097
7.095
6.324
6.315
6.307
4.326
4.315
4.310
4.298
4.255
4.240
4.234
4.228
4.220
4.213
4.207
3.880
3.863
3.856
3.839
3.832
3.826
3.821
3.814
3.806
3.801
3.795
3.611
3.605
3.584
3.578
3.509
3.498
3.482
3.471
2.349
2.340
2.332
1.961
1.799
1.784
1.718
1.271
0.956
0.892



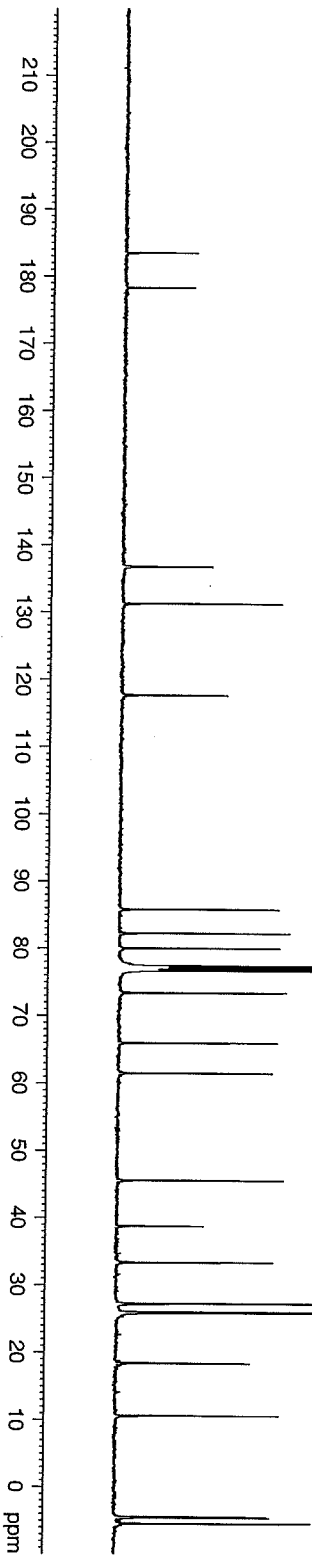
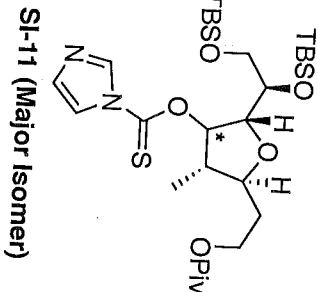
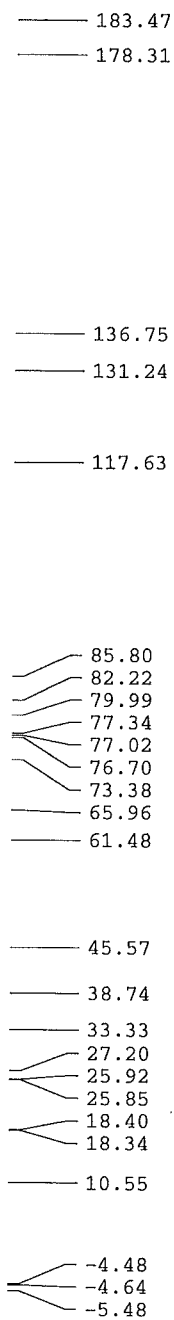
Current Data Parameters
NAME SUM-VII-13-Thioa
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters:
Date_ 20100515
Time 22.17
INSTRUM DPX400
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 6410.256 H
FIDRES 0.195625 H
AQ 2.5559540 s
RG 114
DW 78.000 u
DE 6.00 u
TE 299.2 K
D1 1.00000000 s
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 13.50 u
PL1 -3.00 d
SF01 400.2478017 M

F2 - Processing parameters:
SI 32768
SF 400.2450000 M
WDW EM
SSB 0
LB 0.30 H
GB 0
PC 1.00

Thioate (Major Isomer)



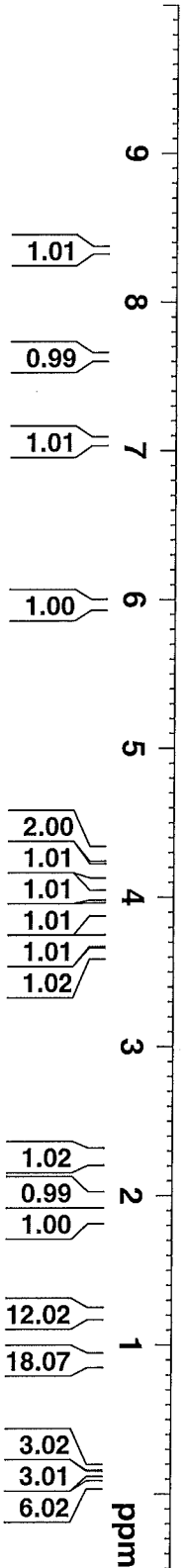
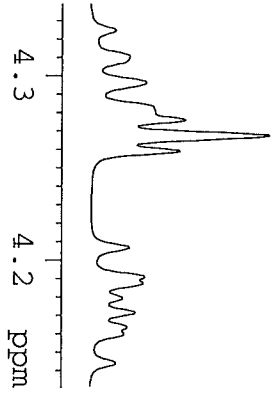
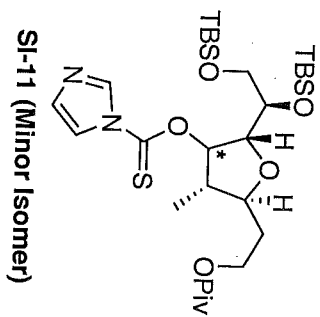
Current Data Parameters
 NAME SUM-VII-13-thioate
 EXPNO 3
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20100515
 Time 22:34
 INSTRUM DEK400
 PROBHD 5 mm BBO BS-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 10240
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 20642.5
 DW 20.850 usec
 DE 6.00 usec
 TE 299.2 K
 D1 2.00000000 sec
 d11 0.03000000 sec
 DELTA 1.89999998 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 8.30 usec
 PL1 -3.00 dB
 SFO1 100.6521517 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -3.00 dB
 PL12 15.00 dB
 PL13 15.00 dB
 SFO2 400.2466010 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6418550 MHz
 MDW 6K
 SSB 0
 ZB 3.00 Hz
 SB 0
 FC 1.40

8.400
7.686
7.539
7.330
7.114
7.112
7.016
2.304
2.217
2.007
1.998
1.841
1.819
1.417
1.361
1.354
1.342
1.328
1.311
1.302
1.269
1.252
1.169
1.161
1.131
1.119
1.103
1.069
1.042
1.031
1.015
0.976
0.835
0.826
0.769
0.756
0.719
0.324
0.280
0.214
0.200
0.028
0.018
0.003
-0.016
-0.082
-0.096



Current Data Parameters
 Name: SDM-VII-13-Thioa
 ExpNO: 1
 ProcNO: 1

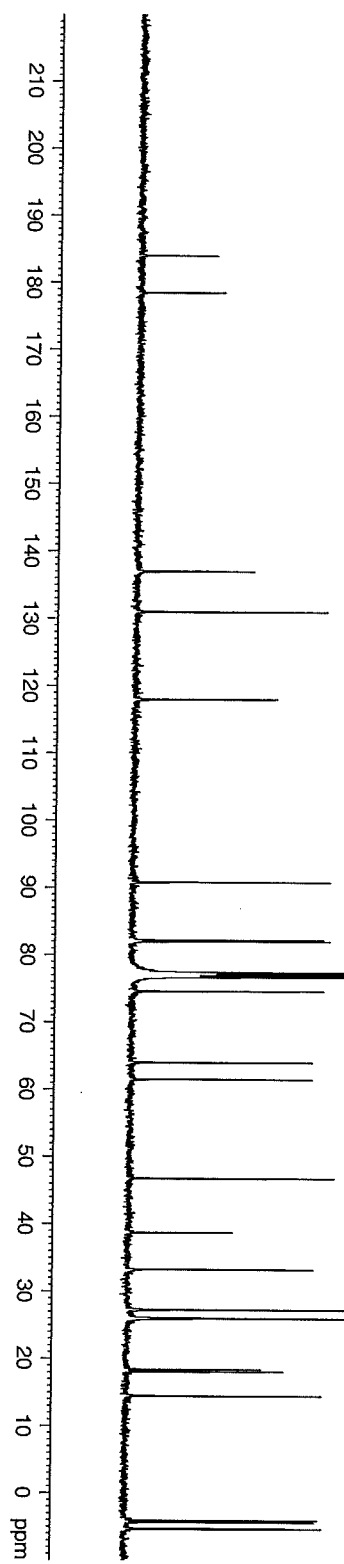
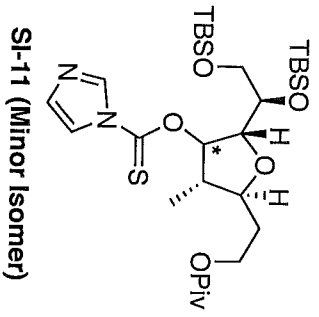
F2 - Acquisition Parameters
 Date_: 20100515
 Time: 16.50
 INSTRUM: DPX400
 PROBHD: 5 mm BBO BB-1H
 PULPROG: zg30
 TD: 32768
 SOLVENT: CDCl3
 NS: 32
 DS: 2
 SMH: 6410.256 H
 FIDRES: 0.195625 H
 AQ: 2.5559540 s
 RG: 143.7
 DW: 78.000 u
 DE: 6.00 u
 TE: 298.2 K
 D1: 1.00000000 s
 TDO: 1

==== CHANNEL f1 =====
 NUCL1: 1H
 P1: 13.50 u
 PL1: -3.00 d
 SF01: 400.2478017 M

F2 - Processing parameters:
 SI: 32768
 SF: 400.2450000 M
 WDW: EM
 SSB: 0
 LB: 0.30 H
 GB: 0
 PC: 1.00

Thioate (Minor Isomer)

183.97
178.45
136.94
130.96
117.95
90.75
82.18
81.97
77.34
77.02
76.70
74.59
63.98
61.48
46.72
38.70
33.22
27.21
25.94
18.37
18.05
14.42
4.14
4.39
5.34



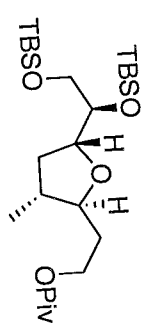
Current Data Parameters
 NAME SVM-VII-13-Thioate
 EXPNO 2
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20100515
 Time 17.04
 INSTRUM DEK400
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 5000
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 9195.2
 DW 20.850 usec
 DE 6.00 usec
 TE 299.2 K
 D1 2.0000000 sec
 d11 0.0300000 sec
 DELTA 1.8999998 sec
 TDO 1

==== CHANNEL F1 =====
 NUC1 13C
 P1 8.30 usec
 PL1 -3.00 dB
 SFO1 100.6521517 MHz

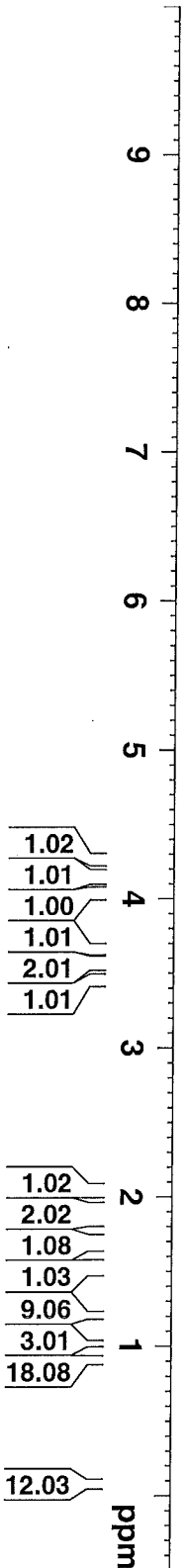
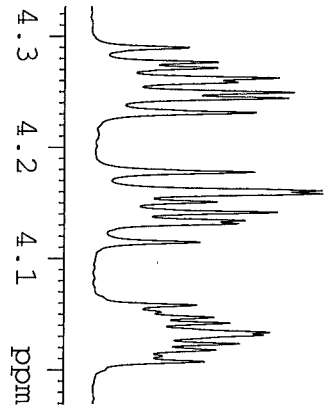
==== CHANNEL F2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P2 90.00 usec
 PL2 -3.00 dB
 PL12 12.00 dB
 PL13 12.00 dB
 SFO2 400.2466010 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6416850 MHz
 WDW EM
 SSB 0
 ZB 3.00 Hz
 GB 0
 PC 1.40

7.281
4.262
4.250
4.244
4.231
4.178
4.161
4.158
4.142
4.034
4.032
3.665
3.655
3.642
3.635
3.594
3.581
3.564
3.558
3.546
3.453
3.446
2.057
2.041
2.027
1.893
1.886
1.696
1.680
1.662
1.538
1.534
1.509
1.505
1.369
1.193
1.025
1.008
0.958
0.955
0.898
0.090
0.084
0.076
0.068
0.064
0.056



41



1.02
1.01
1.00
1.01
2.01
1.01

1.02
2.02
1.08
1.03
9.06
3.01
18.08

12.03

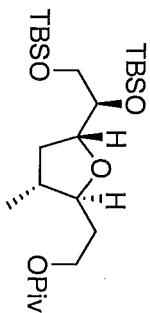
Current Data Parameters
NAME SUM-VII-17-THF R
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20100520
Time 17.26
INSTRUM DPX400
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 6410.256 H
FIDRES 0.195625 H
AQ 2.5559540 s
RG 71.8
DW 78.000 u
DE 6.00 u
TE 299.2 K
D1 2.0000000 s
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 13.50 u
PL1 -3.00 dB
SFO1 400.2478017 M
F2 - Processing parameter:
SI 32768
SF 400.2450000 M
WDW EM
SSB 0
LB 0.30 H
GB 0
PC 1.00

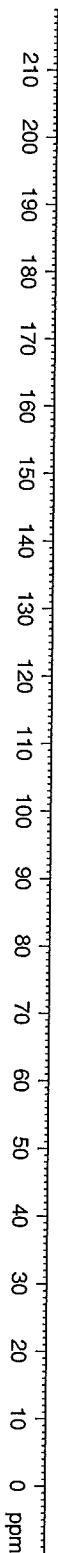
Tetrahydrofuran

178.48



41

81.66
78.52
77.33
77.01
76.69
75.77
65.16
62.12
40.14
38.67
36.76
33.14
27.21
25.98
18.40
18.24
15.93
-4.31
-4.60
-5.38



```

Current Data Parameters
NAME          STM-VII-17-THF Ring
EXPNO        3
PROCNO       1
F2 - Acquisition Parameters
Date_        20100520
Time         17:39
INSTRUM      DEK400
PROBHD       5 mm BBO BB-1H
PULPROG      zgpg30
TD           65536
SOLVENT      CDCl3
NS           494
DS           4
SWH           23990.814 Hz
FIDRES       0.365918 Hz
AQ           1.3664756 sec
RG           18390.4
DW           20.850 usec
DE           6.00 usec
TE           299.2 K
D1           0.20000000 sec
d11          0.03000000 sec
DELTA        0.10000000 sec
TD0          1

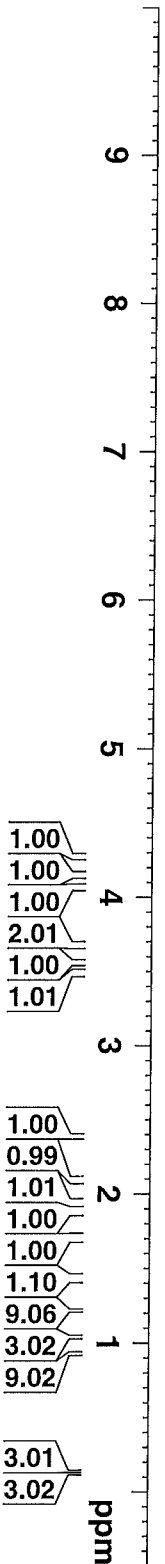
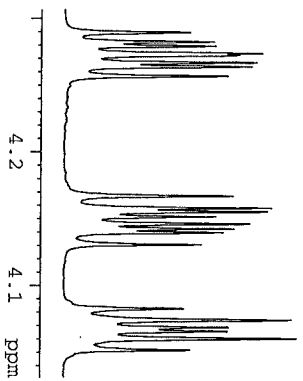
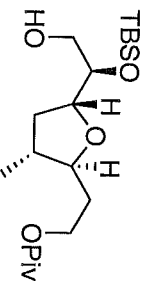
===== CHANNEL f1 =====
NUC1          13C
P1            8.30 usec
PL1          -3.00 dB
SFO1         100.6217495 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        90.00 usec
PL2          -3.00 dB
PL12         15.00 dB
PL13         15.00 dB
SFO2         400.2466010 MHz

F2 - Processing parameters
SI           32768
SF           100.6416850 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```

Primary alcohol

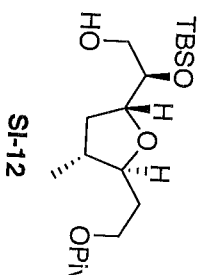
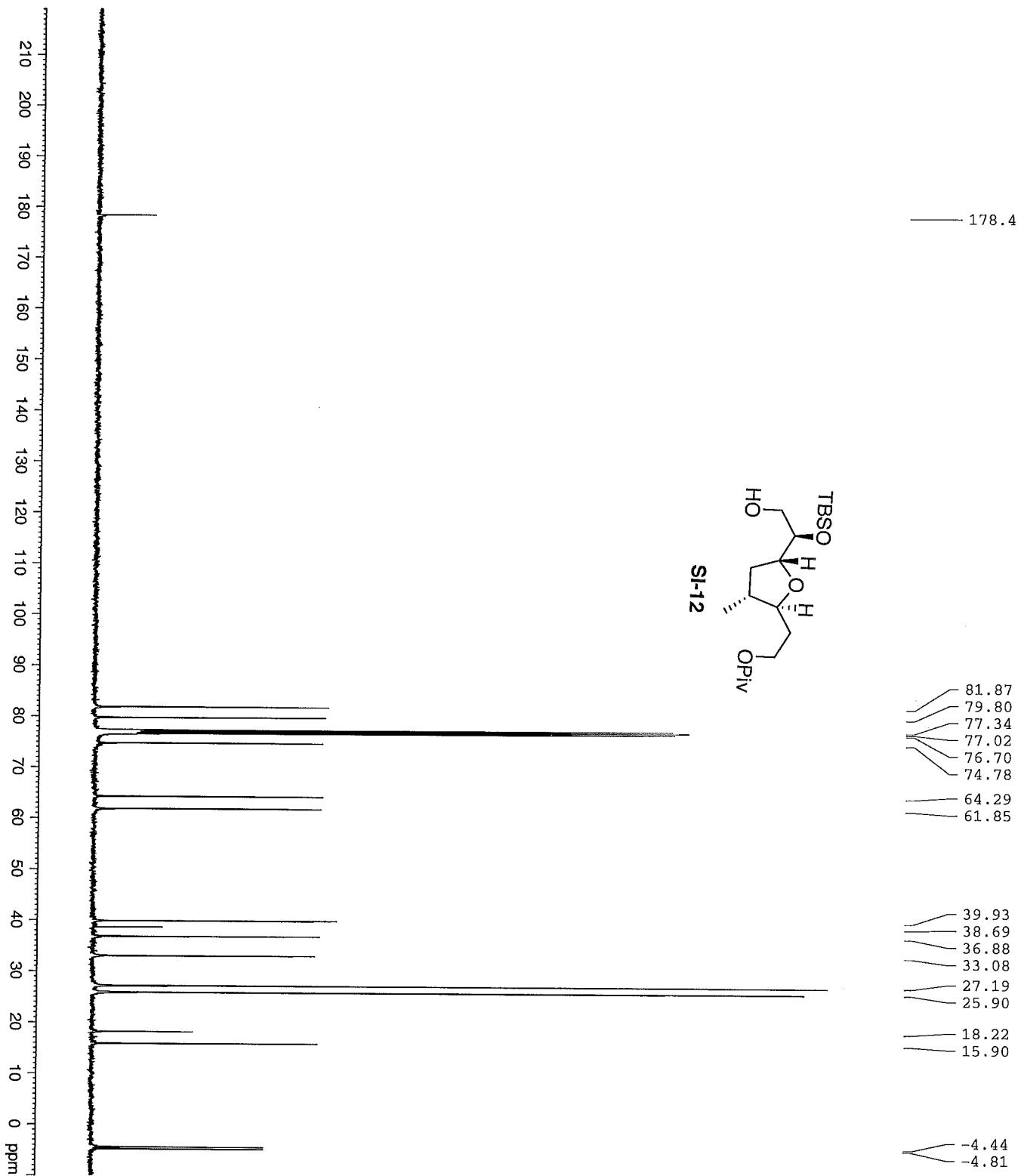
7.290
4.274
4.272
4.267
4.263
4.167
4.158
4.155
4.146
4.142
4.074
4.060
3.675
3.673
3.667
3.567
3.558
3.548
3.500
3.497
3.488
3.484
3.475
3.471
2.395
2.387
2.379
2.101
2.092
2.084
2.075
1.709
1.707
1.700
1.457
1.442
1.440
1.426
1.423
1.409
1.216
1.046
1.037
0.929
0.138
0.120



```

NAME          SUM-TX-18-Primary Alcoh
EXPNO         1
PROCNO       1
Date_         20110225
Time         23.57
INSTRUM      spect
PROBHD       5 mm CPDCH 13C
PULPROG      zg30
TD           65536
SOLVENT      CDCl3
NS           32
DS           2
SWH          11904.762 Hz
FIDRES      0.181652 Hz
AQ          2.7525620 sec
RG           57
DW          42.000 usec
DE          16.50 usec
TE          298.2 K
D1          2.00000000 sec
TD0         1

===== CHANNEL f1 =====
NUC1         1H
P1          9.40 usec
PL1         -3.20 dB
PT1W       33.59817505 W
SF01       700.1245508 MHz
SI          65536
SF         700.1200000 MHz
WDW         EM
SSB         0
LB          0.30 Hz
GB          0
PC          1.00
  
```

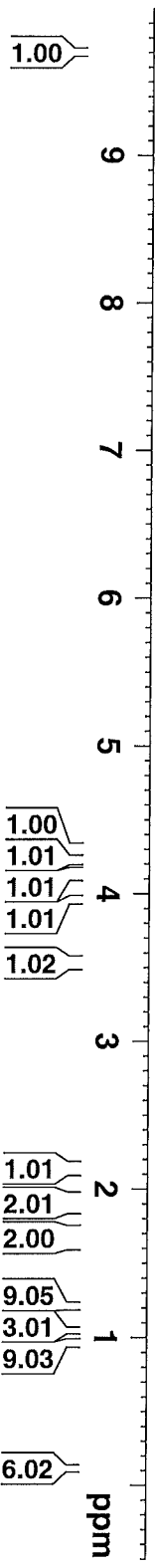
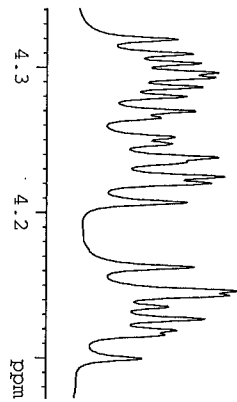
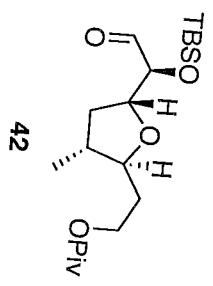


81.87	81
79.80	4
77.34	4
77.02	4
76.70	4
74.78	4
64.29	4
61.85	4
39.93	4
38.69	4
36.88	4
33.08	4
27.19	4
25.90	4
18.22	4
15.90	4
4.44	4
1.81	4

Current Data Parameters
 NAME SDK-VII-28-Alcohol
 EXPNO 2
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20100531
 Time 22.18
 INSTRUM DPK400
 PROBDW 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 5513
 DS 4
 SWH 23980.814 Hz
 FIDRES 0.365918 Hz
 AQ 1.3664756 sec
 RG 9195.2
 DW 20.850 usec
 DE 6.00 usec
 TE 299.2 K
 D1 0.20000000 sec
 d11 0.03000000 sec
 DELTA 0.10000000 sec
 TD0 1
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 8.30 usec
 PL1 -3.00 dB
 SFO1 100.6517495 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 90.00 usec
 PL2 -3.00 dB
 PL12 15.00 dB
 PL13 15.00 dB
 SFO2 400.2466010 MHz
 F2 - Processing parameters
 SI 32768
 SF 100.6416850 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Aldehyde

9.698	9.695	7.291	4.309	4.302	4.296	4.293	4.286	4.279	4.269	4.237	4.224	4.220	4.207	4.162	4.146	4.143	4.126	4.119	3.958	3.955	3.948	3.945	3.531	3.524	2.148	2.135	2.118	1.928	1.922	1.910	1.904	1.892	1.884	1.700	1.684	1.675	1.651	1.645	1.622	1.210	1.053	1.037	0.958	0.112	0.106
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

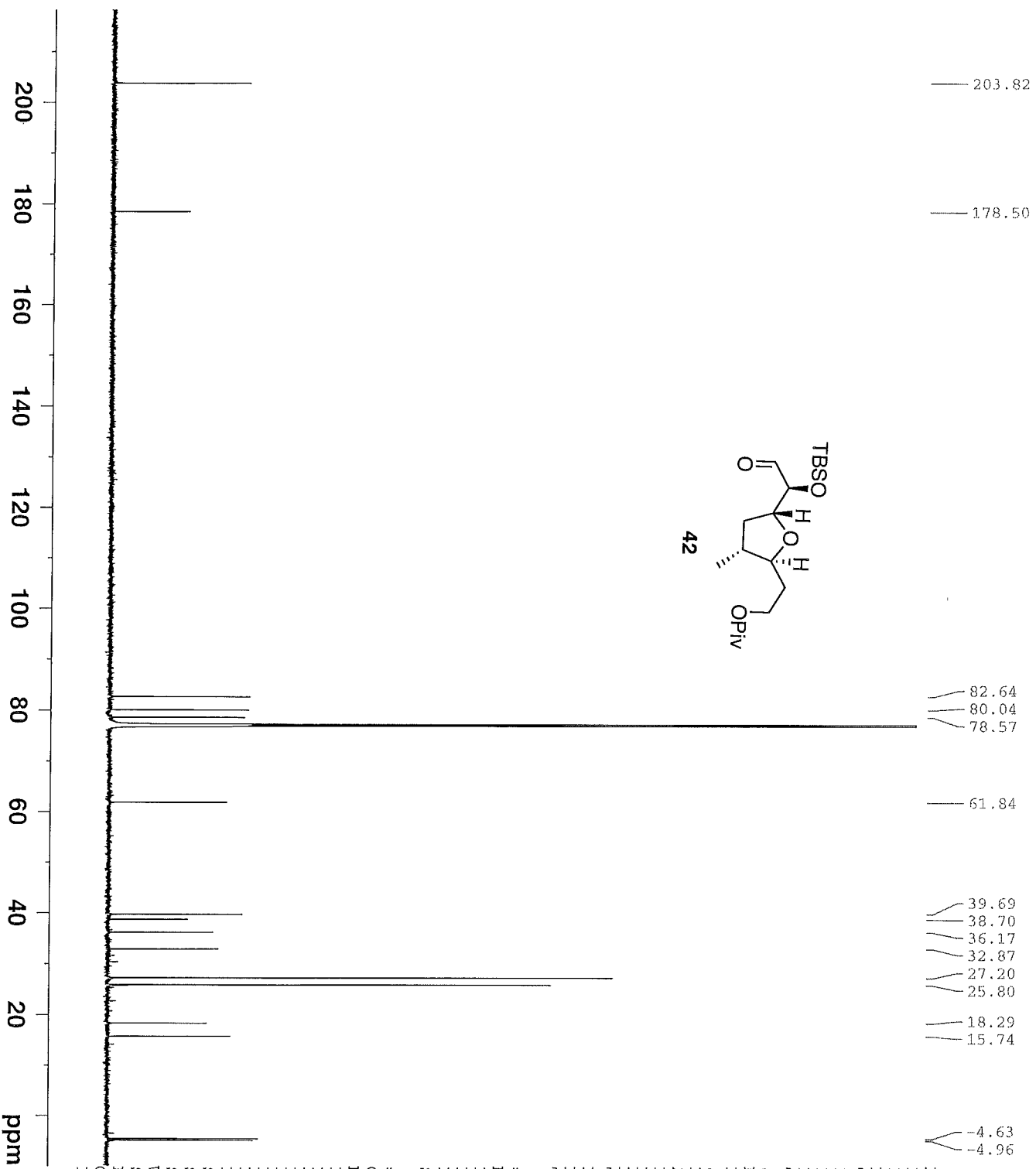
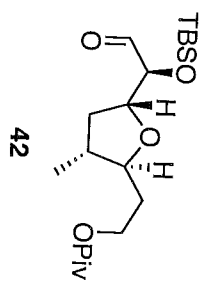


1.00
1.01
1.01
1.01
1.02
1.01
2.01
2.00
9.05
3.01
9.03
6.02

NAME SM-V-79-R-Aldehyde
 EXPNO 1
 PROCNO 1
 Date_ 20100108
 Time 15.30
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 6410.256 Hz
 FIDRES 0.195625 Hz
 AQ 2.5559540 sec
 RG 64
 DW 78.000 usec
 DE 6.50 usec
 TE 299.7 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.00 dB
 PL1W 10.27361584 W
 SFO1 400.1378009 MHz
 SI 32768
 SF 400.1350000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Aldehyde

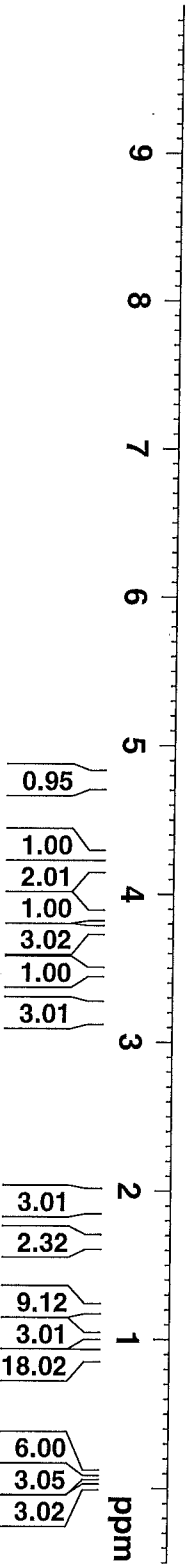
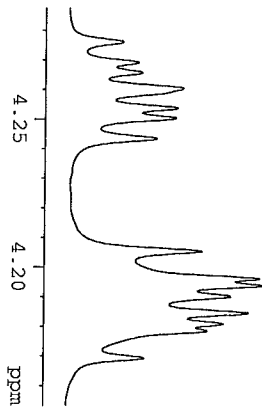
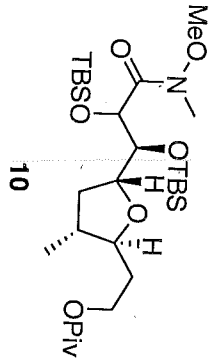


```

NAME SUM-IX-37-Aldehyde
EXPNO 2
PROCNO 1
Date_ 20100930
Time 16.28
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zgpg30
TD 98304
SOLVENT CDCl3
NS 235
DS 4
SWH 41666.668 Hz
FIDRES 0.423855 Hz
AQ 1.1796980 sec
RG 203
DE 12.000 usec
TE 15.00 usec
D1 297.5 K
D11 2.00000000 sec
TD0 0.03000000 sec
===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 4.50 dB
PL1W 38.14553833 W
SFO1 176.0629186 MHz
===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 65.00 usec
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL2W 33.59817505 W
PL12W 0.70196527 W
PL13W 0.00000000 W
SFO2 700.1228005 MHz
SI 131072
SF 176.0453140 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```


Weinreb-amide

- 7.288
- 4.763
- 4.260
- 4.254
- 4.250
- 4.243
- 4.196
- 4.194
- 4.190
- 4.185
- 4.181
- 3.858
- 3.757
- 3.490
- 3.486
- 3.477
- 3.473
- 3.464
- 3.460
- 3.194
- 1.966
- 1.937
- 1.933
- 1.924
- 1.917
- 1.913
- 1.905
- 1.902
- 1.886
- 1.686
- 1.679
- 1.677
- 1.673
- 1.670



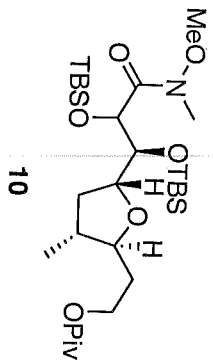
```

NAME          SUM-V-91-Weinreb-ami
EXPNO         1
PROCNO        1
Date_         20121213
Time          0.32
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES       0.125003 Hz
AQ           3.9999621 sec
RG           22.6
DW           42.000 usec
DE           6.50 usec
TE           303.3 K
D1           2.00000000 sec
TD0          1

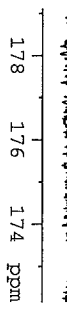
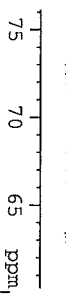
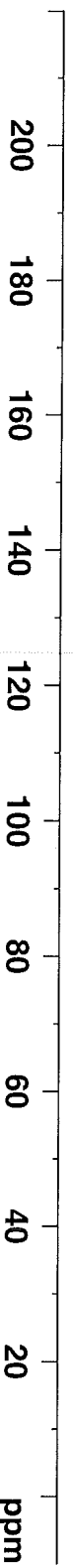
===== CHANNEL f1 =====
NUC1          1H
P1           9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
    
```

Weinreb-amide

178.51
173.21



81.34
77.80
77.21
77.03
76.85
75.11
69.27
62.14
61.63
40.56
38.69
36.67
33.47
32.45
27.21
26.33
25.82
18.45
18.30
15.59
4.14
4.71
5.06



```

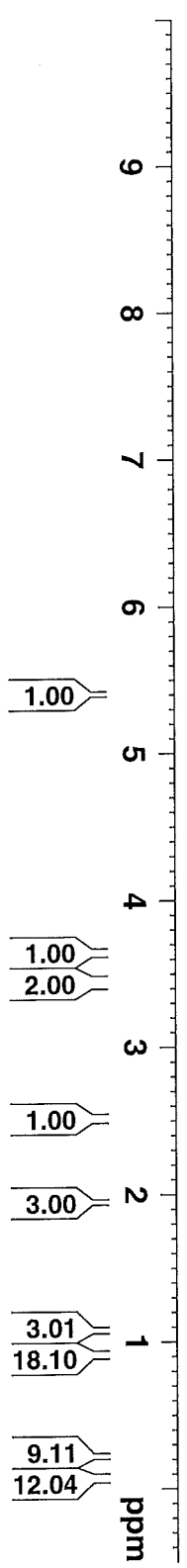
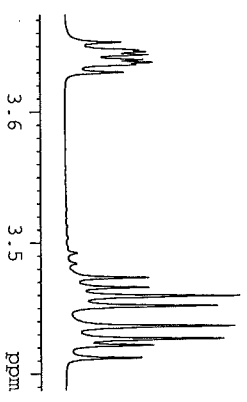
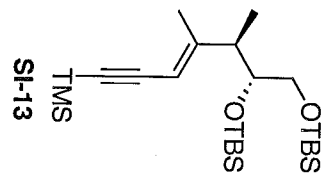
NAME          SUM-V-91-Weinreb am1
EXPNO         2
PROCNO        1
Date_         20121213
Time          1.10
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            1560
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DE            12.000 usec
TE            303.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W         38.14553833 W
SFO1         176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.701965227 W
PL13W        0.00000000 W
SFO2         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW           EM
SSB           0
LB           3.00 Hz
GB           0
PC           1.40
    
```

Eneayne

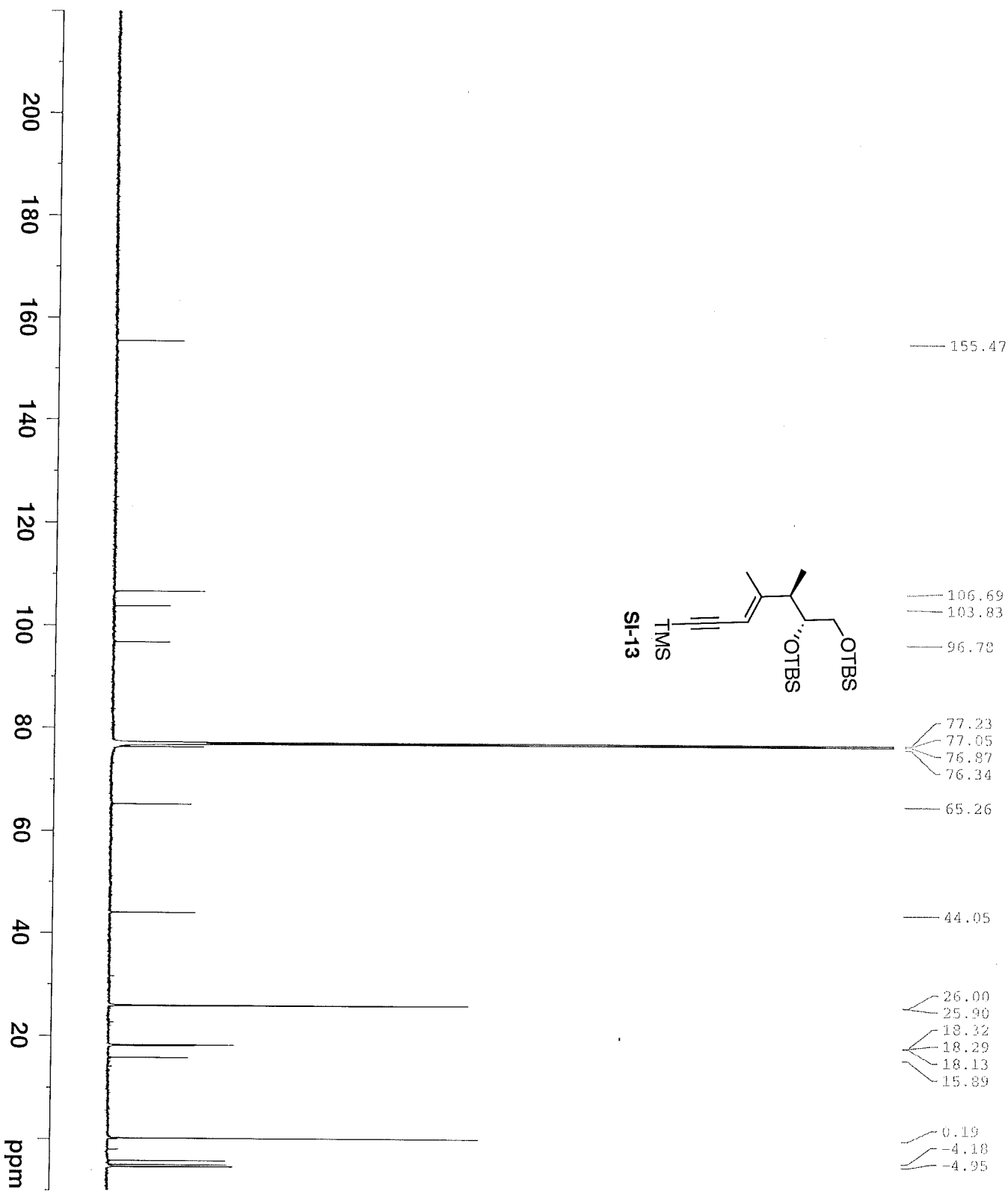
7.290
 5.406
 5.405
 3.653
 3.647
 3.645
 3.643
 3.639
 3.637
 3.636
 3.630
 3.473
 3.466
 3.459
 3.451
 3.436
 3.426
 3.421
 3.412
 2.530
 2.524
 2.520
 2.514
 2.510
 2.504
 2.500
 2.494
 1.946
 1.944
 1.085
 1.075
 0.911



NAME SUM-X-56-Eneayne
 EXPNO 1
 PROCNO 1
 Date_ 20110225
 time 15.54
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zg30
 TD 65536
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.181652 Hz
 AQ 2.7525620 se
 RG 50.8
 DW 42.000 us
 DE 16.50 us
 TE 298.2 K
 D1 2.00000000 se
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 9.40 us
 PL1 -3.20 dB
 P1LW 33.59817505 W
 SFO1 700.1245508 MHZ
 SI 65536
 SF 700.1200000 MHZ
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Eneayne



NAME SUM-X-56-Eneayne
 EXPNO 2
 PROCNO 1
 Date_ 20110225
 Time 16.02
 INSTRUM spect
 PROBH 5 mm CPDCH 13C
 PULPROG zgpg30
 TD 98304
 SOLVENT CDCl3
 NS 181
 DS 4
 SWH 41666.668 Hz
 FIDRES 0.423855 Hz
 AQ 1.1795980 sec
 RG 203
 DW 12.000 us
 DE 15.00 us
 TE 298.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

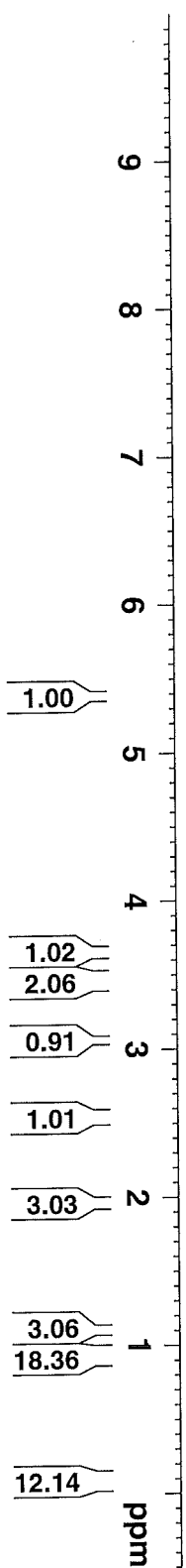
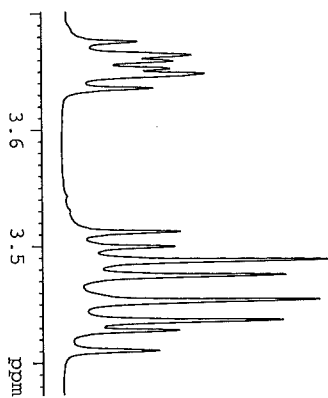
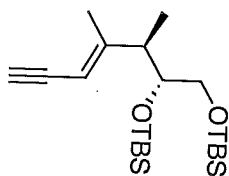
==== CHANNEL f1 =====
 NUC1 13C
 P1 9.00 us
 PL1 4.50 dB
 PL1W 38.14553833 W
 SFO1 176.0637988 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 65.00 us
 PL2 -3.20 dB
 PL12 13.60 dB
 PL13 120.00 dB
 PL2W 33.59817505 W
 PL12W 0.70196527 W
 PL13W 0.00000000 W
 SFO2 700.1228005 MHz
 SI 131072
 SF 176.0453140 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Alkyne

7.291

- 5.382
- 3.675
- 3.663
- 3.658
- 3.652
- 3.647
- 3.635
- 3.511
- 3.498
- 3.486
- 3.474
- 3.452
- 3.435
- 3.427
- 3.410
- 3.063
- 3.058
- 2.576
- 2.565
- 2.558
- 2.547
- 2.540
- 2.530
- 2.523
- 2.512
- 1.956
- 1.106
- 1.088
- 0.921
- 0.915

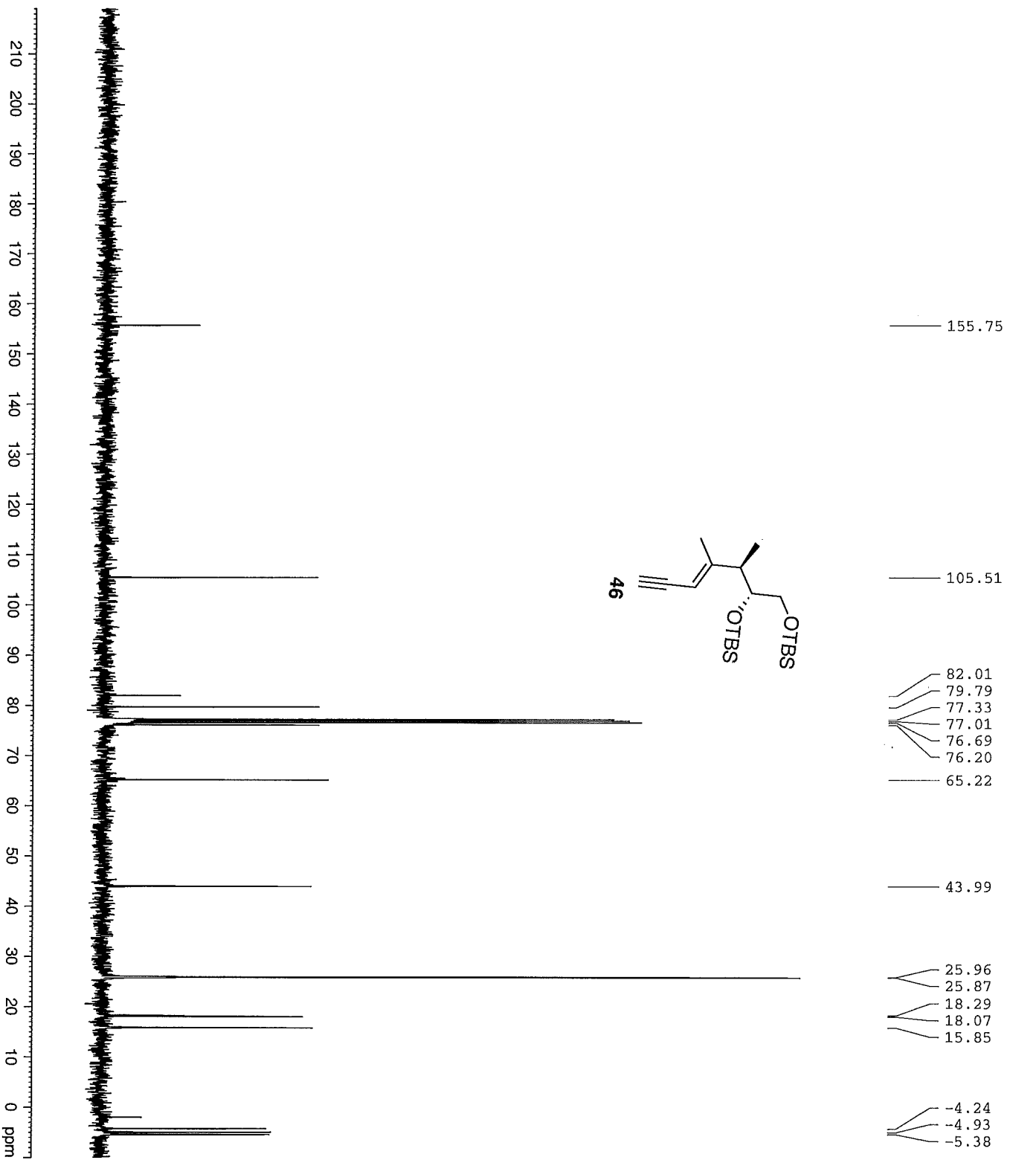


- 1.00
- 1.02
- 2.06
- 0.91
- 1.01
- 3.03
- 3.06
- 18.36
- 12.14

```

NAME          SM-VI-92-R-Alkyne
EXPNO         1
PROCNO        1
Date_         20100502
Time          0.04
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENTP      CDCl3
NS            32
DS            2
SWH           6410.256 Hz
FIDRES       0.195625 Hz
AQ           2.5559540 sec
RG           128
DW           78.000 usec
DE           6.50 usec
TE           299.4 K
D1           2.00000000 sec
D11          1
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           14.00 usec
PL1          0.00 dB
PL1W        10.27361584 W
SF01        400.1378009 MHz
SI          32768
SE          400.1350000 MHz
WDW          EM
SSB          0
LB          0.30 Hz
GB          0
PC          1.00
  
```



Current Data Parameters
 NAME SUM-VII-31-EneYne
 EXPNO 2
 PROCNO 1
 F2 1
 DU /m
 USER Subham

F2 - Acquisition Parameters
 Date_ 20100601
 Time 1.32
 INSTRUM DPK400
 PROBD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 322
 DS 4
 SWH 23980.814 Hz
 FIDPRMS 0.365918 Hz
 AQ 1.3664756 sec
 RG 9195.2
 DW 20.850 usec
 DE 6.00 usec
 TE 300.2 K
 D1 0.20000000 sec
 d11 0.03000000 sec
 DELTA 0.10000000 sec
 TDO 1

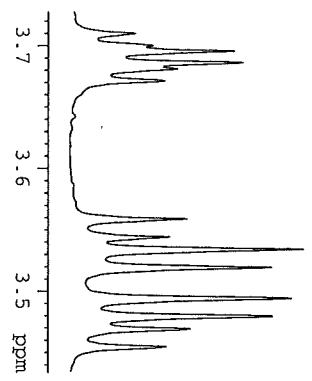
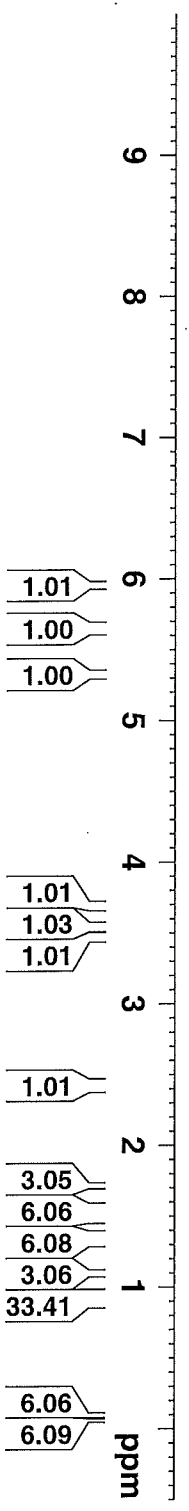
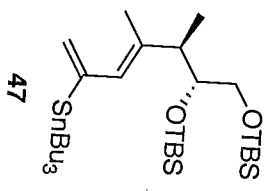
==== CHANNEL f1 =====
 NUCL1 13C
 P1 8.30 usec
 PL1 -3.00 dB
 SFO1 100.6517495 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUCL2 1H
 NOC2 1H
 PCPDZ 90.00 usec
 PL2 -3.00 dB
 PL12 15.00 dB
 PL13 15.00 dB
 SFO2 400.2466010 MHz

F2 - Processing parameters
 SI 32768
 SF 100.6416850 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Di enyl Vinyl Stannane

7.292
5.954
5.654
5.650
5.646
5.333
5.330
5.324
5.321
3.695
3.685
3.533
3.519
3.494
3.479
1.713
1.710
1.564
1.561
1.546
1.526
1.519
1.507
1.501
1.487
1.466
1.385
1.366
1.348
1.329
1.311
1.293
1.107
1.089
0.951
0.937
0.929
0.922
0.919
0.911
0.900
0.099
0.094
0.063



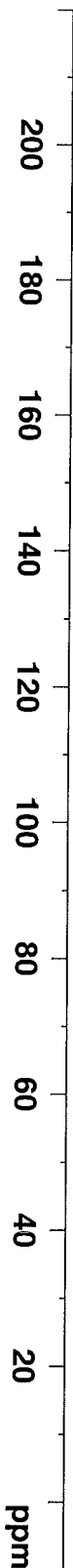
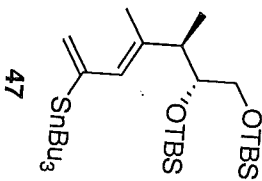
```

NAME          SM-VII-18-R-Vinyl Stannane
EXPNO         1
PROCNO        1
Date_         20100518
Time_         18.11
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENT       CDCl3
NS            32
DS            2
SWH           6410.256 Hz
FIDRES        0.195625 Hz
AQ            2.5559540 sec
RG            128
DW            78.000 usec
DE            6.50 usec
TE            299.0 K
D1            2.00000000 sec
TD0           1
===== CHANNEL f1 =====
NUC1          1H
P1            14.00 usec
PL1           0.00 dB
PL1W          10.27361584 W
SFO1          400.1378009 MHz
SI            32768
SF            400.1350000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

Dienyl Vinyl Stannane

SM-VII-76-R-Vinyl Stan

- 151.97
- 135.25
- 131.80
- 126.65
- 77.30
- 76.98
- 76.82
- 76.67
- 65.60
- 45.01
- 29.08
- 27.34
- 26.01
- 25.94
- 18.32
- 18.14
- 16.02
- 15.91
- 13.66
- 9.94
- 4.17
- 4.86
- 4.75
- 5.32



```

NAME          SM-VII-76-R-Vinyl Stan
EXPERNO      3
PROCNO       1
Date_        20100801
Time         18.13
INSTRUM      robinson
PROBHD       5 mm PABBO BB-
PULPROG      zgpg30
TD           63336
SOLVENT      CDCl3
NS           436
DS           4
SWH          23980.814 Hz
FIDRES       0.365918 Hz
AQ           1.3664756 sec
RG           9195.2
DW           20.850 usec
DE           6.50 usec
TE           301.6 K
D1           0.20000000 sec
D11          0.03000000 sec
TDO         1

===== CHANNEL F1 =====
NUC1         13C
P1           9.00 usec
PL1         -2.00 dB
SF01        100.6258476 MHz

===== CHANNEL F2 =====
CPDPRG2     waltz16
NUC2         1H
PCPD2       90.00 usec
PL2         0.00 dB
PL12        16.16 dB
PL13        17.00 dB
SF02        400.1416006 MHz
SI          32768
SF          100.6152830 MHz
WDW         EM
SSB         0
LB          1.00 Hz
GB          0
PC          1.40

```


Current Data Parameters

NAME SUM-VII-19-Vinyl1 Iod
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

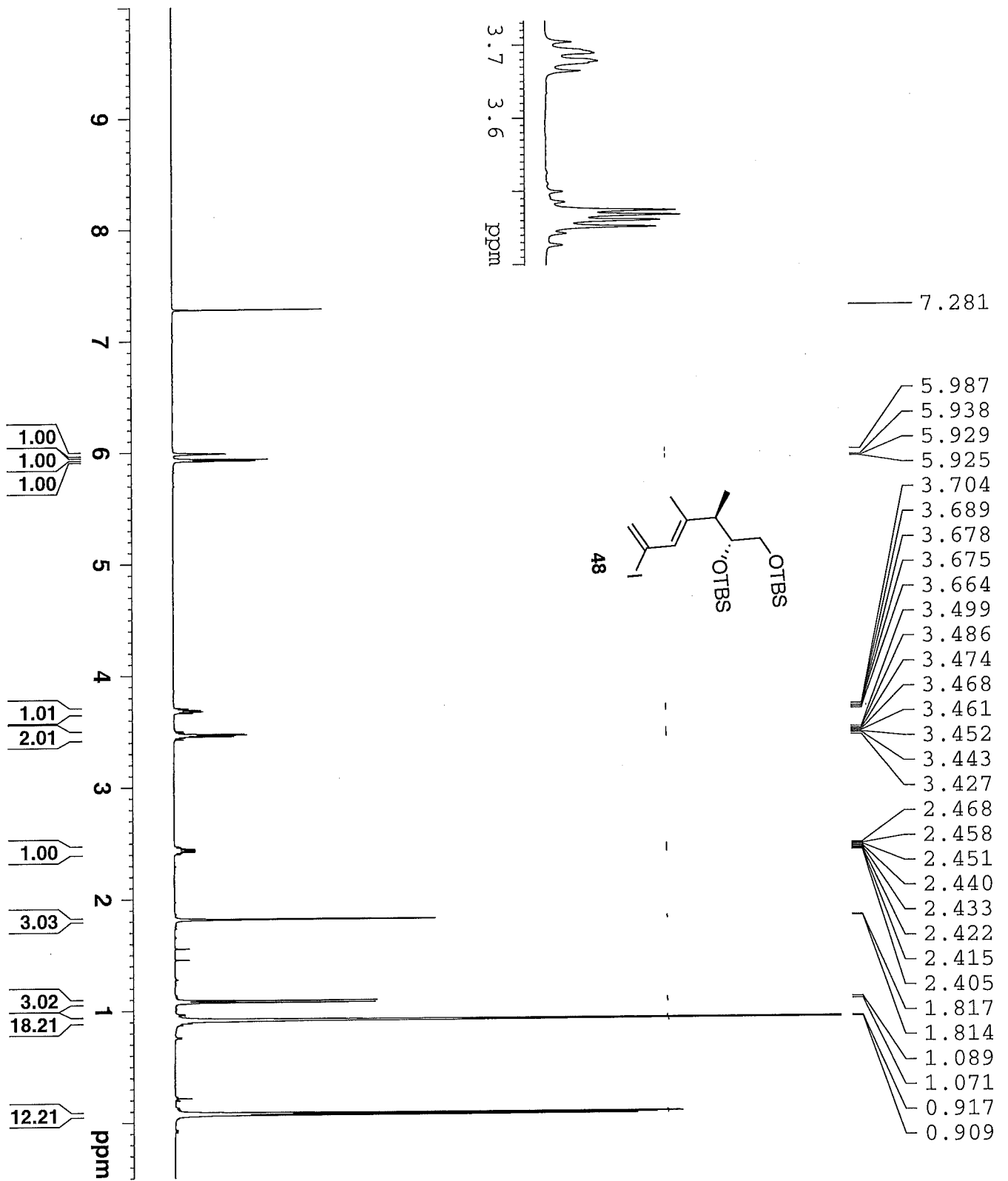
Date_ 20100609
 Time 21.57
 INSTRUM DPX400
 PROHD 5 mm BBO BB-1H
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SMH 6410.256 Hz
 FIDRES 0.195625 Hz
 AQ 2.5559540 sec
 RG 161.3
 DW 78.000 usec
 DE 6.00 usec
 TE 299.2 K
 D1 2.00000000 sec
 TD0 1

==== CHANNEL f1 =====

NUC1 1H
 P1 13.50 usec
 PL1 -3.00 dB
 SFO1 400.2478017 MHz

F2 - Processing Parameters

SI 32768
 SF 400.2450000 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



1.00
 1.00
 1.00

1.01
 2.01

1.00

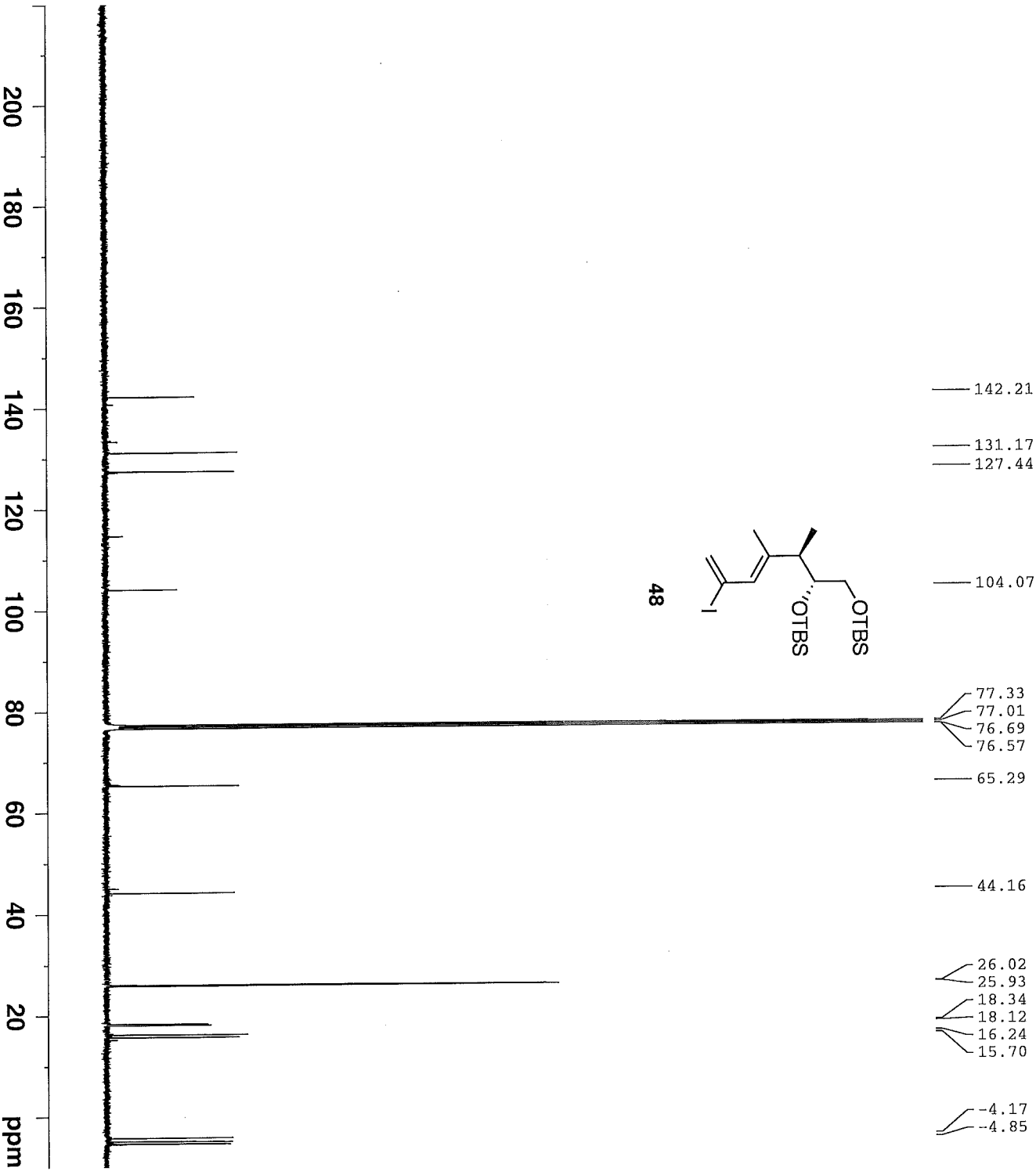
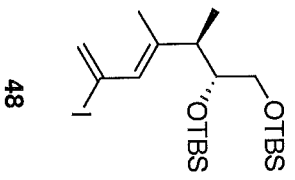
3.03

3.02
 18.21

12.21

Dienyl Vinyl Iodide

SM-VI-95-R-Dienyl Vinyl Iodide



```

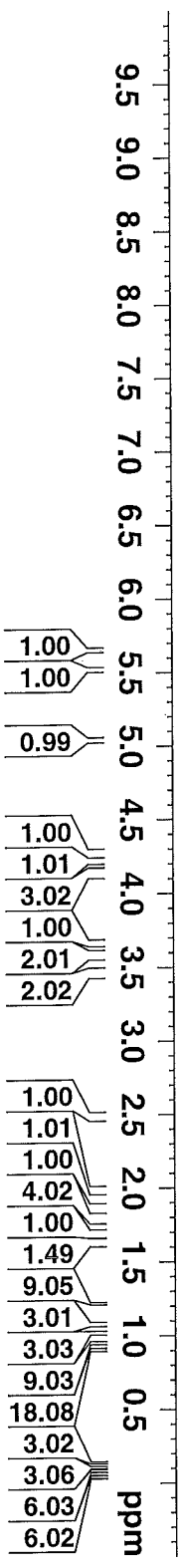
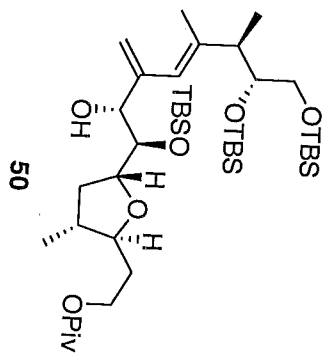
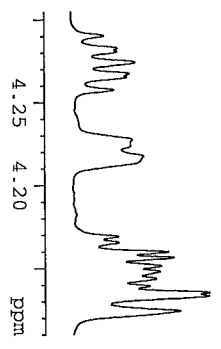
NAME          SM-VI-95-R-Dienyl Vinyl Iodide
EXPNO         3
PROCNO        1
Date_         20100502
Time          23.02
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            3000
DS            4
SWH           25125.629 Hz
FIDRES        0.383387 Hz
AQ            1.3042164 sec
RG            18390.4
DW            19.900 usec
DE            6.30 usec
TE            300.3 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           -2.00 dB
PL1W          46.89702605 W
SFO1          100.6255986 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCSP2        90.00 usec
PL2           0.00 dB
PL12         16.06 dB
PL13         17.00 dB
PL14         10.27361584 W
PL15         0.24872722 W
PL16         0.20498557 W
PL17         400.1366005 MHz
SFO2          400.1366005 MHz
SI           32768
SF           100.6140260 MHz
WDW           EM
SSB           0
LBS           1.00 Hz
GB            0
PC            1.40
    
```

Alcohol

7.290
5.656
5.521
5.046
4.217
4.159
4.156
4.151
4.148
4.143
4.139
4.134
4.132
4.123
3.672
3.666
3.605
3.601
3.597
3.580
3.576
3.467
3.461
3.452
1.990
1.973
1.778
1.776
1.644
1.630
1.617
1.616
1.221
1.084
1.074
1.026
1.016
0.953
0.908
0.904
0.142
0.110
0.087
0.083
0.047
0.040



```

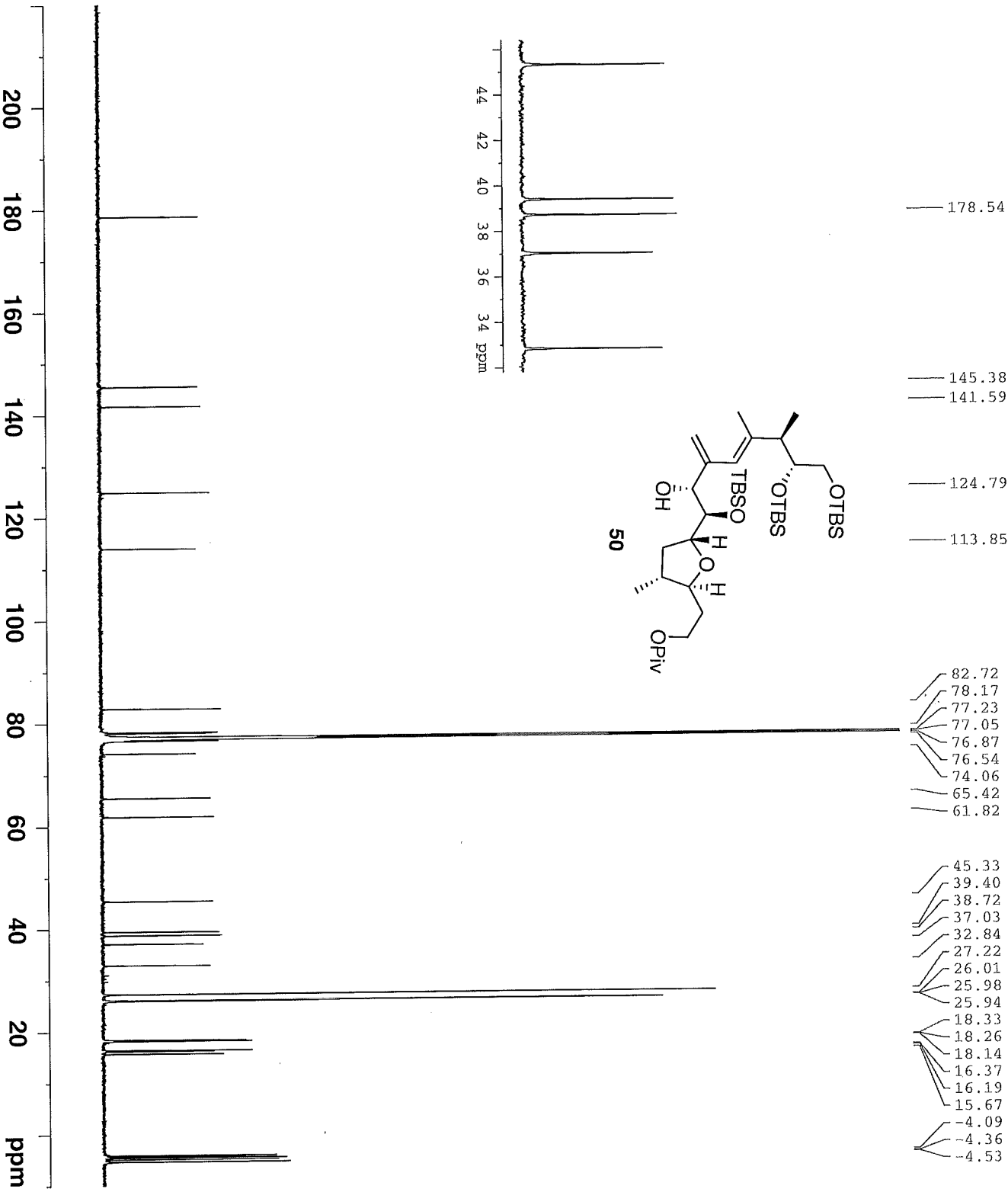
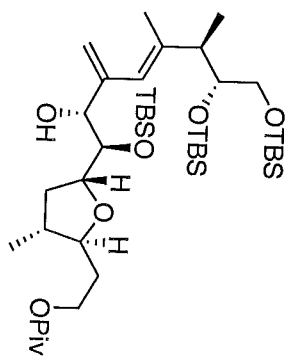
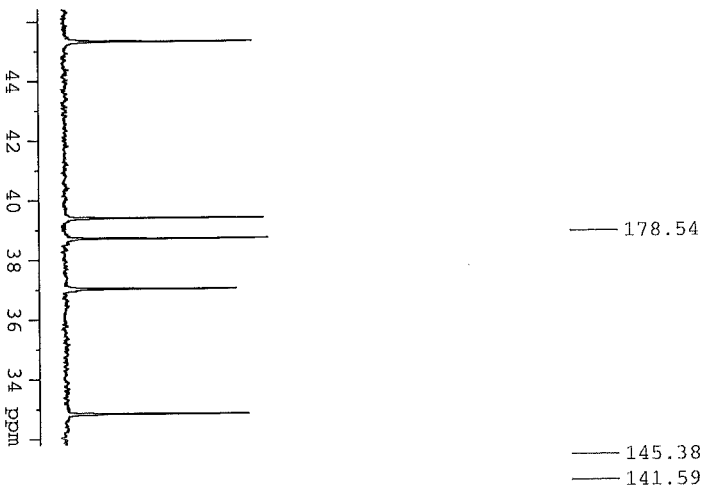
NAME SUM-XII-39-Alcohol
EXPNO 2
PROCNO 1
Date_ 20110717
Time 19.00
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zg30
TD 95236
SOLVENT CDCl3
NS 32
DS 2
SWH 11904.762 Hz
FIDRES 0.125003 Hz
AQ 3.9999621 sec
RG 57
DW 42.000 usec
DE 16.50 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 9.40 usec
PL1 -3.20 dB
PL1W 33.59817505 W
SFO1 700.1245508 MHz
SI 131072
SF 700.1200000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

```

Alcohol

SUM-XII-39-Alcohol



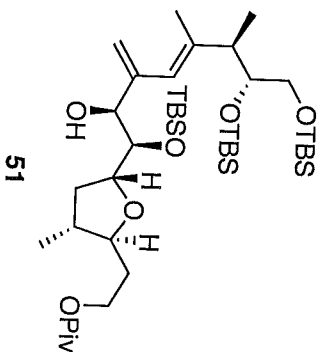
NAME	SUM-XII-39-Alcohol
EXPNO	3
PROCNO	1
Date_	20110717
Time	19.09
INSTRUM	spec
PROBHD	5 mm CPDCH 13C
PULPROG	zgpg30
TD	98304
SOVENT	CDCl3
NS	997
DS	4
SFH	41666.668 Hz
FIDRES	0.42385 Hz
AQ	1.1796980 sec
RG	203
DW	12.000 usec
DE	15.00 usec
TE	298.2 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1

===== CHANNEL f1 =====	
NUC1	13C
P1	9.00 usec
PL1	4.50 dB
PL1W	38.14553833 W
SFO1	176.0637988 MHz

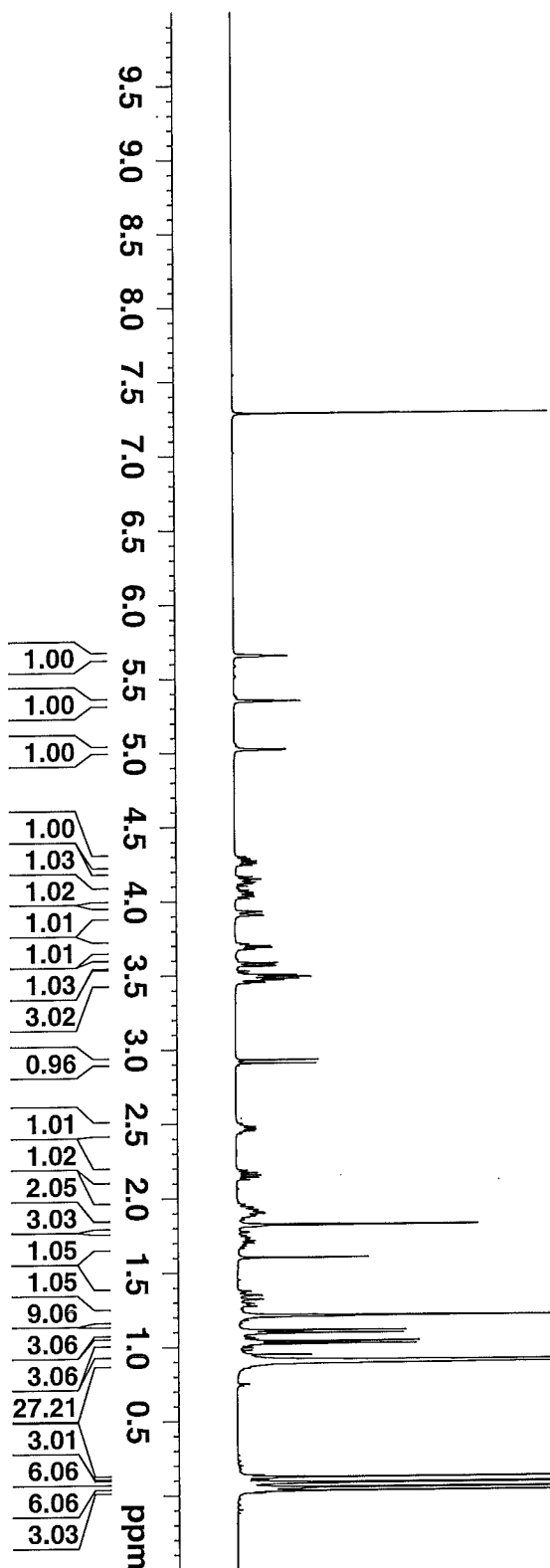
===== CHANNEL f2 =====	
CPDPRG2	waltz16
NUC2	1H
PCPD2	65.00 usec
PL2	-3.20 dB
PL12	13.60 dB
PL13	120.00 dB
PL12W	33.59817505 W
PL12W	0.70196527 W
PL13W	0.00000000 W
SFO2	700.1228005 MHz
SI	131072
SF	176.0453140 MHz
WDW	EM
SSB	0
LB	3.00 Hz
GB	0
PC	1.40

Diene (Bottom Minor Spot)

7.282
5.653
5.352
5.348
5.344
5.024
4.151
4.147
3.930
3.907
3.700
3.690
3.586
3.582
3.567
3.564
3.505
3.495
3.491
3.480
3.470
3.455
2.930
2.907
2.157
2.142
1.924
1.919
1.907
1.901
1.824
1.821
1.602
1.348
1.322
1.210
1.112
1.094
1.039
1.023
0.908
0.896
0.124
0.086
0.053
0.030



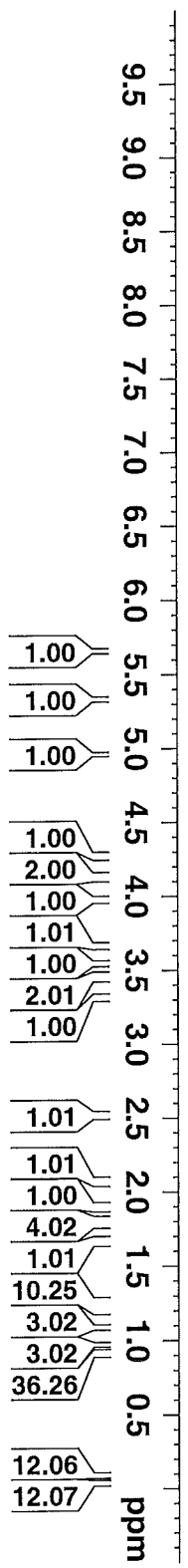
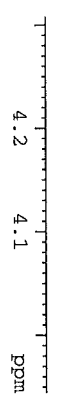
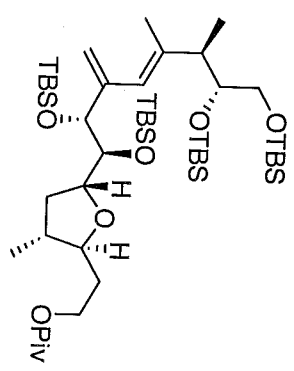
4.3
4.2
4.1
ppm



NAME SUM-IX-06-R-Diene
 EXPNO 3
 PROCNO 1
 Date_ 20100831
 Time 0.35
 INSTRUM robinson
 PROBD 5 mm PABBO BB-
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 6793.478 Hz
 FIDRES 0.207320 Hz
 AQ 2.4117749 sec
 RG 57
 DW 73.600 usec
 DE 6.50 usec
 TE 299.4 K
 D1 2.00000000 sec
 TD0 1

==== CHANNEL F1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.00 dB
 SF01 400.1424008 MHz
 SI 32768
 SF 400.1400000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Diene	Chemical Shift (ppm)
	7.290
	5.662
	5.341
	5.338
	5.335
	4.964
	4.276
	4.141
	4.126
	4.119
	3.669
	3.664
	3.554
	3.551
	3.544
	3.541
	3.463
	3.457
	3.448
	3.318
	3.314
	2.516
	2.079
	2.070
	2.061
	1.795
	1.793
	1.278
	1.254
	1.237
	1.096
	1.086
	0.977
	0.968
	0.928
	0.917
	0.915
	0.905
	0.102
	0.094
	0.086
	0.081
	0.052
	0.046
	0.035
	0.026



```

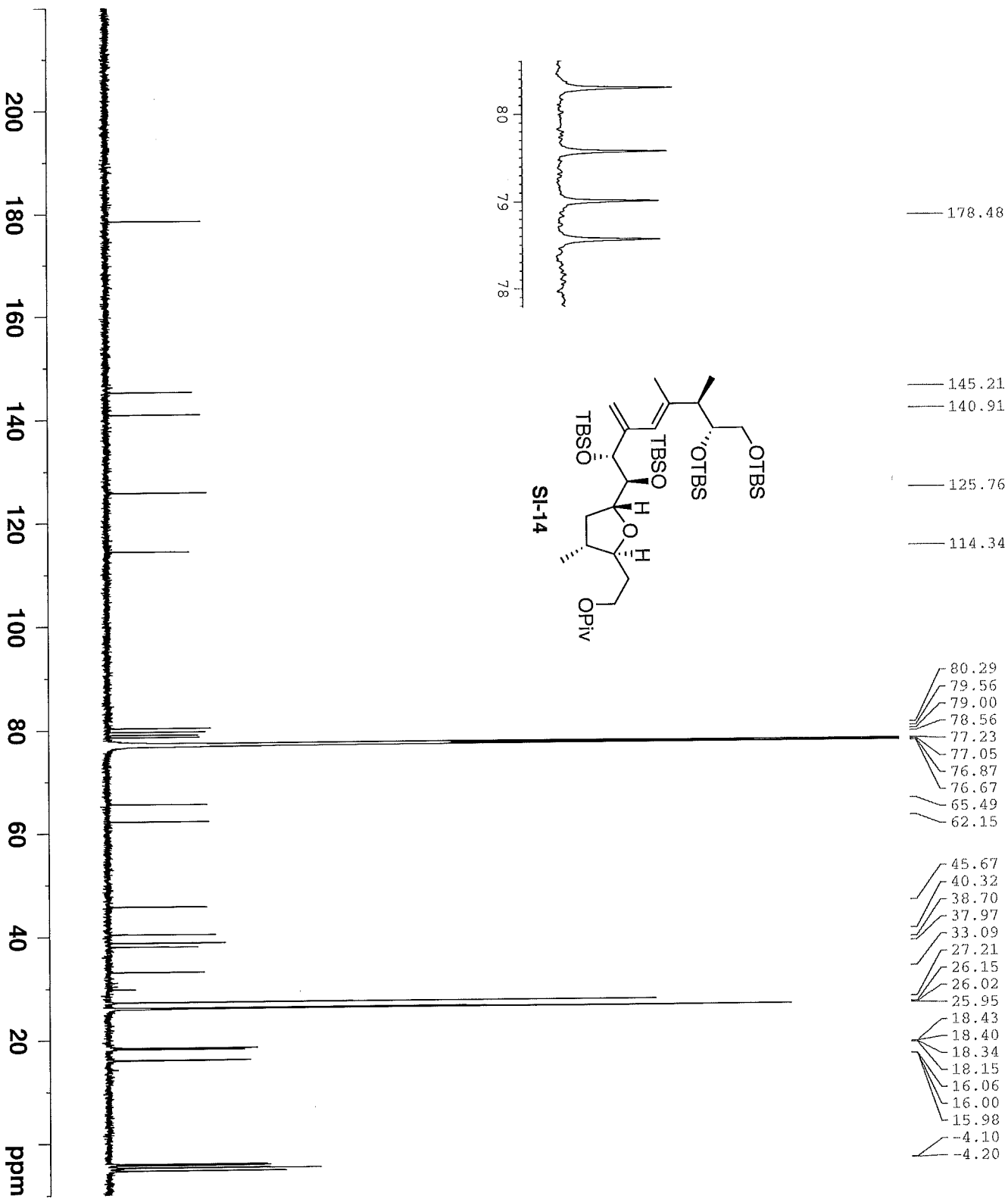
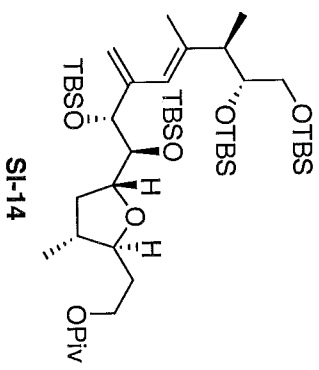
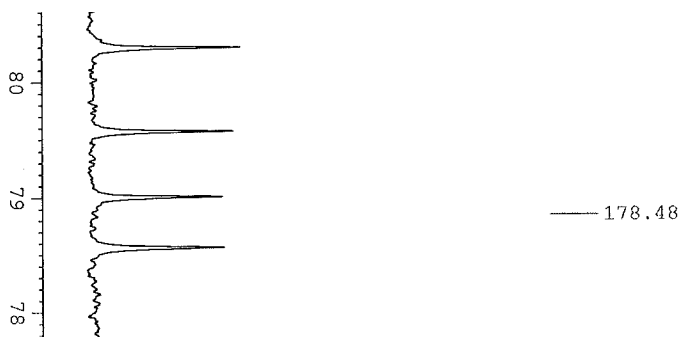
NAME          SUM-XII-15-Diene
EXPNO         1
PROCNO        1
Date_         20110701
Time          16.57
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            57
DE            42.000 us
TE            298.2 K
D1            2.00000000 sec
TDO           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 us
PL1           -3.20 dB
PL1W          33.59817505 W
SFO1          700.1245508 MHz
SI            131072
SF            700.1200000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00

```

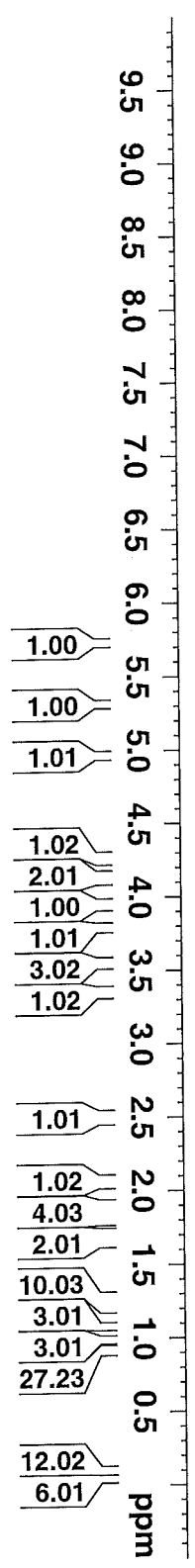
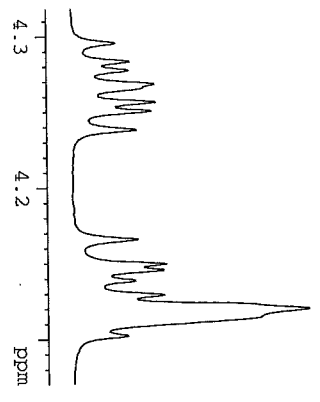
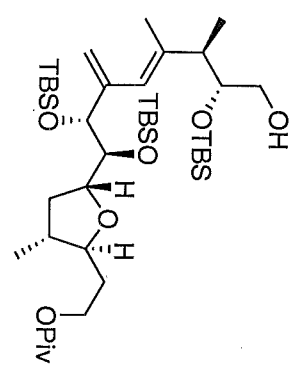
Diene

SUM-XII-15-Diene



NAME	EXPNO	PROCNO	Date_	Time	INSTRUM	PROBHD	PULPROG	TD	SOLVENT	NS	DS	SWH	FIDRES	AQ	RG	DW	DE	TE	D1	D11	TD0
NAME	1	1	20110701	17.21	spect	13C	zgpg30	98304	CDCl3	528	4	41666.668 Hz	0.423855 Hz	1.1796980 sec	203	12.000 usec	15.00 usec	298.2 K	2.00000000 sec	0.03000000 sec	1
EXPNO	2																				
PROCNO																					
Date_																					
Time																					
INSTRUM																					
PROBHD																					
PULPROG																					
TD																					
SOLVENT																					
NS																					
DS																					
SWH																					
FIDRES																					
AQ																					
RG																					
DW																					
DE																					
TE																					
D1																					
D11																					
TD0																					
===== CHANNEL F1 =====																					
NUC1																					
P1																					
PL1																					
PL1W																					
SFO1																					
===== CHANNEL F2 =====																					
CPDPRG2																					
NUC2																					
PCPD2																					
PL2																					
PL12																					
PL13																					
PL12W																					
PL13W																					
SFO2																					
SI																					
SF																					
WDW																					
SSB																					
LB																					
GB																					
PC																					

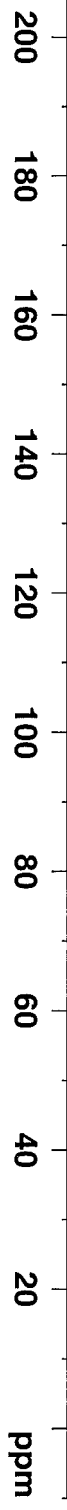
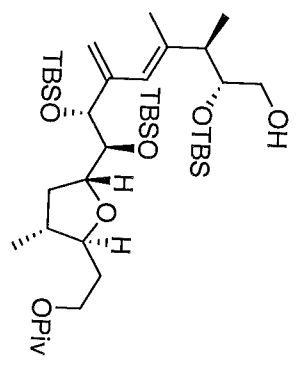
7.282	A1cohol
5.735	
5.322	
5.318	
4.970	
4.256	
4.149	
4.145	
4.129	
4.118	
3.796	
3.783	
3.575	
3.571	
3.563	
3.559	
3.556	
3.545	
3.538	
3.356	
3.349	
2.499	
2.081	
2.066	
2.050	
1.806	
1.803	
1.736	
1.720	
1.704	
1.275	
1.247	
1.205	
1.086	
1.068	
0.993	
0.977	
0.925	
0.918	
0.915	
0.117	
0.110	
0.096	
0.083	
0.058	
0.026	



NAME SM-VII-25-R-Alcohol
 EXPNO 2
 PROCNO 1
 Date_ 20100830
 Time_ 22.11
 INSTRUM robinson
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 6793.478 Hz
 FIDRES 0.207320 Hz
 AQ 2.4117749 sec
 RG 4
 DW 73.600 usec
 DE 6.50 usec
 TE 299.2 K
 D1 2.00000000 sec
 TDO 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 14.00 usec
 PL1 0.00 dB
 SFO1 400.1424008 MHz
 SI 32768
 SF 400.1400000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

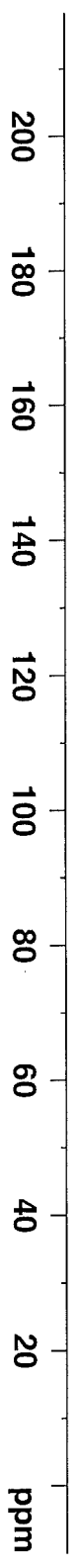
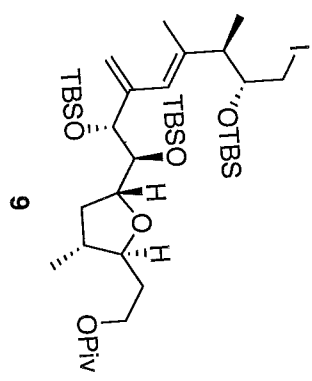
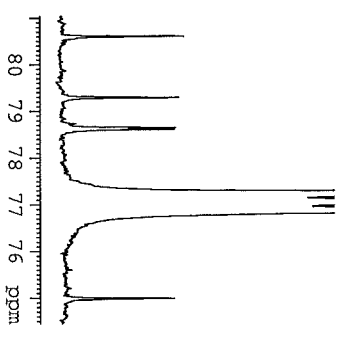
- 178.40
- 145.11
- 140.62
- 125.47
- 114.82
- 80.55
- 79.42
- 78.95
- 78.65
- 77.31
- 77.00
- 76.68
- 75.20
- 64.39
- 62.07
- 46.44
- 40.30
- 38.67
- 38.14
- 33.16
- 27.19
- 26.13
- 25.96
- 25.86
- 18.43
- 18.35
- 18.11
- 16.02
- 14.70
- 4.26
- 4.35
- 4.65



NAME	EXPNO	PROCNO	Date_	Time	INSTRUM	PROBHD	PULPROG	TD	SOLVENT	NS	DS	SWH	FIDRES	AQ	RG	DW	DE	TE	D1	D11	TD0
SM-VII-25-R-Alcc	4	1	20100830	22.27	robinsom	5 mm PABBO BB-	zpg930	65536	CDCl3	4455	4	23980.814	0.365918	1.3664756	14596.5	20.850	6.50	299.4	0.20000000	0.03000000	1
==== CHANNEL F1 =====																					
NUC1	13C																				
P1	9.00																				
PL1	-2.00																				
SFO1	100.6258476																				
==== CHANNEL F2 =====																					
CPDPRG2	waltz16																				
NUC2	1H																				
PCPD2	90.00																				
PL2	0.00																				
PL12	16.16																				
PL13	17.00																				
SFO2	400.1416006																				
SI	32768																				
SF	100.6152830																				
WDW	EM																				
SSB	0																				
LB	1.00																				
GB	0																				
PC	1.40																				

Iodide

- 178.45
- 145.00
- 139.52
- 126.33
- 115.24
- 80.58
- 79.27
- 78.63
- 78.59
- 74.98
- 62.13
- 47.13
- 40.35
- 38.69
- 38.11
- 33.20
- 27.22
- 26.20
- 25.99
- 25.86
- 18.47
- 18.37
- 18.04
- 16.17
- 16.02
- 15.07
- 11.44
- 4.04
- 4.15
- 4.20



```

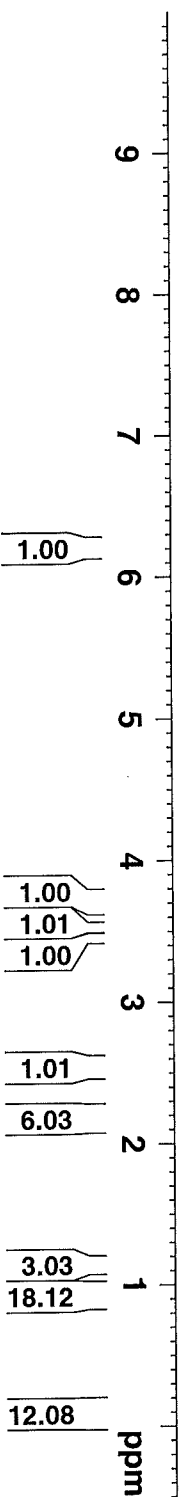
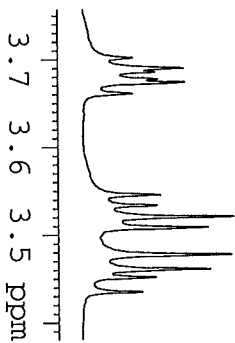
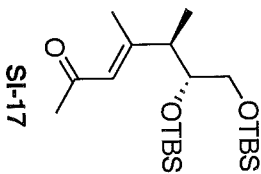
NAME SM-VII-44
EXPNO 1
PROCNO 2
Date_ 20100618
Time 16.01
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zgpg30
TD 98304
SOLVENT CDCl3
NS 296
DS 4
SWH 41666.668 Hz
FIDRES 0.423855 Hz
AQ 1.1796980 sec
RG 203
DW 12.000 usec
DE 15.000 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL F1 =====
NUC1 13C
P1 9.00 usec
PL1 4.50 dB
PL1W 38.14553833 W
SFO1 176.0629186 MHz

===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 65.00 usec
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL1W 33.59817505 W
PL12W 0.70196527 W
PL13W 0.00000000 W
SFO2 700.1228005 MHz
SI 131072
SF 176.0453140 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```

Enone

- 7.290
- 6.194
- 3.701
- 3.689
- 3.685
- 3.677
- 3.673
- 3.660
- 3.545
- 3.533
- 3.520
- 3.508
- 3.477
- 3.460
- 3.451
- 3.435
- 2.554
- 2.537
- 2.524
- 2.519
- 2.506
- 2.184
- 2.157
- 2.154
- 1.130
- 1.112
- 0.925
- 0.900
- 0.080



1.00

1.00

1.01

1.00

1.01

6.03

3.03

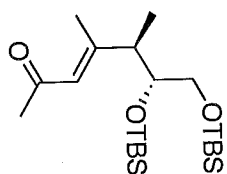
18.12

12.08

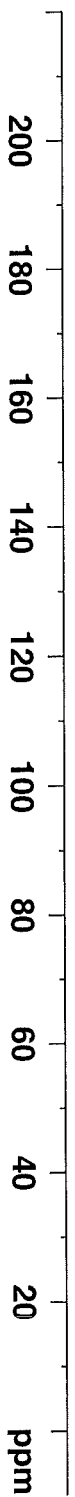
```

NAME SM-VI-77-R-Enone
EXPNO 2
PROCNO 1
Date_ 20100414
Time 0.15
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 6410.256 Hz
FIDRES 0.195625 Hz
AQ 2.5559540 sec
RG 71.8
DE 78.000 us
TE 6.50 us
D1 299.6 K
TD0 2.00000000 sec
===== CHANNEL f1 =====
NUC1 1H
P1 14.00 us
PL1 0.00 dB
PL1W 10.27361584 W
SFO1 400.1378009 MHz
SI SF 32768
SF 400.1350000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00
  
```

- 198.88
- 160.21
- 125.24
- 77.33
- 77.01
- 76.69
- 75.99
- 65.25
- 46.04
- 31.91
- 25.92
- 25.82
- 18.27
- 18.07
- 17.86
- 15.88
- 4.20
- 4.97



SI-17

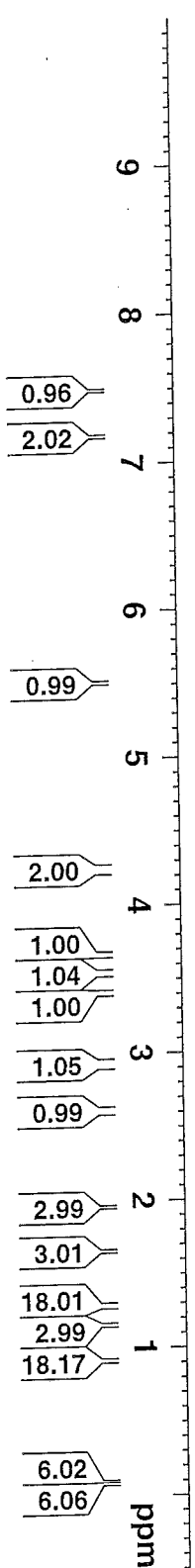
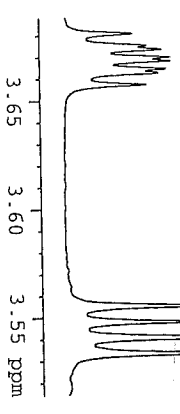
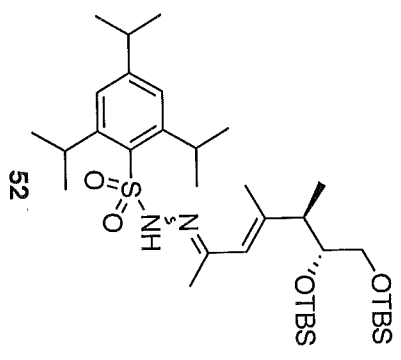


```

NAME SM-VI-77-R-Enone
EXPNO 3
PROCNO 1
Date_ 20100414
Time 0.21
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 8049
DS 4
SWH 25125.629 Hz
FIDRES 0.383387 Hz
AQ 1.3042164 sec
RG 16384
DE 19.900 use
TE 6.50 use
D1 300.6 K
D11 2.00000000 sec
TD0 0.03000000 sec
===== CHANNEL F1 =====
NUC1 13C
P1 9.00 use
PL1 -2.00 dB
PL1W 46.89702606 W
SFO1 100.6255966 MHz
===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 use
PL2 0.00 dB
PL12 16.16 dB
PL13 17.00 dB
PL2W 10.27361584 W
PL12W 0.24872722 W
PL13W 0.20498557 W
SFO2 400.1366005 MHz
SI 32768
SF 100.6140260 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
  
```

Hydrazone

7.496
7.288
7.185
5.514
4.268
4.258
4.248
4.239
4.229
3.673
3.670
3.668
3.664
3.663
3.555
3.548
3.541
3.533
3.418
3.407
3.404
3.393
2.937
2.927
2.917
2.620
2.615
2.610
2.604
1.958
1.655
1.654
1.292
1.289
1.288
1.282
1.279
1.278
1.161
1.151
0.917
0.907
0.099
0.095
0.079
0.078

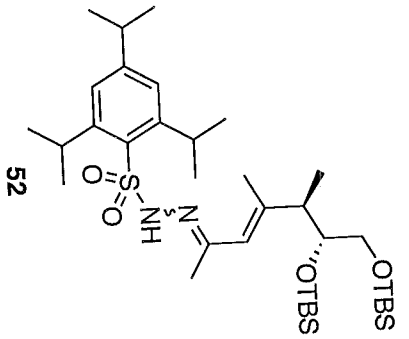


NAME SUM-V-66-Hydrazone
 EXPNO 1
 PROCNO 1
 Date_ 20120829
 Time 22:49
 INSTRUM spect
 PROBDH 5 mm CPDCH 13C
 PULPROG zg30
 TD 95236
 SOLVENT CDCl3
 NS 31
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 22.6
 DW 42.000 usec
 DE 6.50 usec
 TE 296.2 K
 D1 2.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUCL1 1H
 P1 9.40 usec
 PL1 -3.20 dB
 PL1W 33.59817505 W
 SF01 700.1516910 MHz
 SI 131072
 SF 700.1471400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Hydrazone

- 152.93
- 152.59
- 151.38
- 148.29
- 131.69
- 123.73
- 118.52
- 77.22
- 77.03
- 76.85
- 75.94
- 64.99
- 43.51
- 34.15
- 29.97
- 25.95
- 25.88
- 24.87
- 23.59
- 18.22
- 18.08
- 17.99
- 16.90
- 4.20
- 4.85
- 5.33



```

NAME          SUM-V-66-Hydrazon
EXPNO        2
PROCNO       1
Date_        20120829
Time         23.06
INSTRUM      spect
PROBHD       5 mm CPDCH 13C
PULPROG      zgpg30
TD           65536
SOLVENT      CDCl3
NS           251
DS           4
SWH          41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           16.50 usec
TE           296.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1

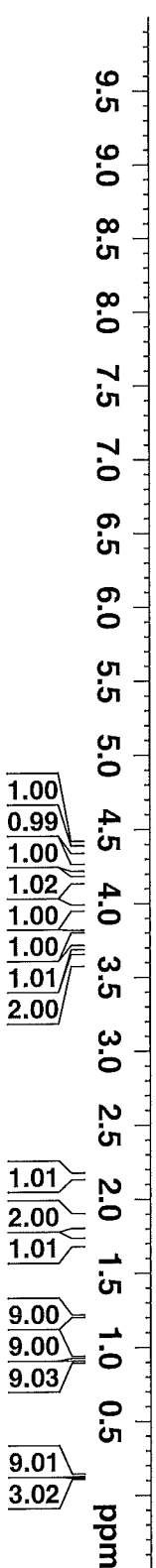
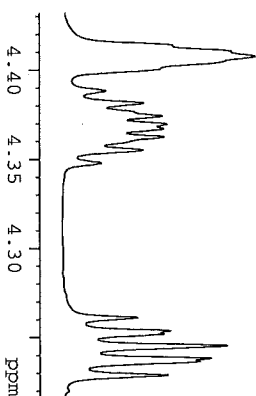
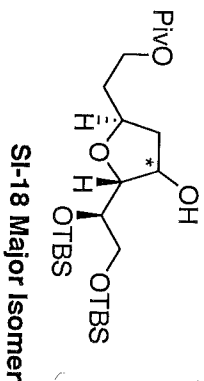
===== CHANNEL f1 =====
NUC1         13C
P1           9.00 usec
PL1         4.50 dB
PL1W        38.14553833 W
SFO1        176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2     waltz16
NUC2         1H
PCPBD2      65.00 usec
PL2         -3.20 dB
PL12       13.60 dB
PL13       120.00 dB
PL1ZW      33.59817505 W
PL12W      0.70196527 W
PL13W      0.00000000 W
SFO2       700.1499406 MHz
SI          32768
SF         176.0521380 MHz
WDW          EM
SSB          0
LB          3.00 Hz
GB          0
PC          1.40

```


Alcohol (Major Isomer)

7.290	4.407	4.369	4.367	4.362	4.253	4.245	4.238	4.236	4.229	4.180	4.171	4.168	4.159	3.975	3.971	3.963	3.813	3.811	3.711	3.707	3.700	3.695	3.638	3.633	3.624	3.618	3.611	3.598	3.583	2.170	2.162	2.151	2.144	1.873	1.851	1.839	1.713	1.709	1.706	1.213	0.939	0.906	0.139	0.133	0.116
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

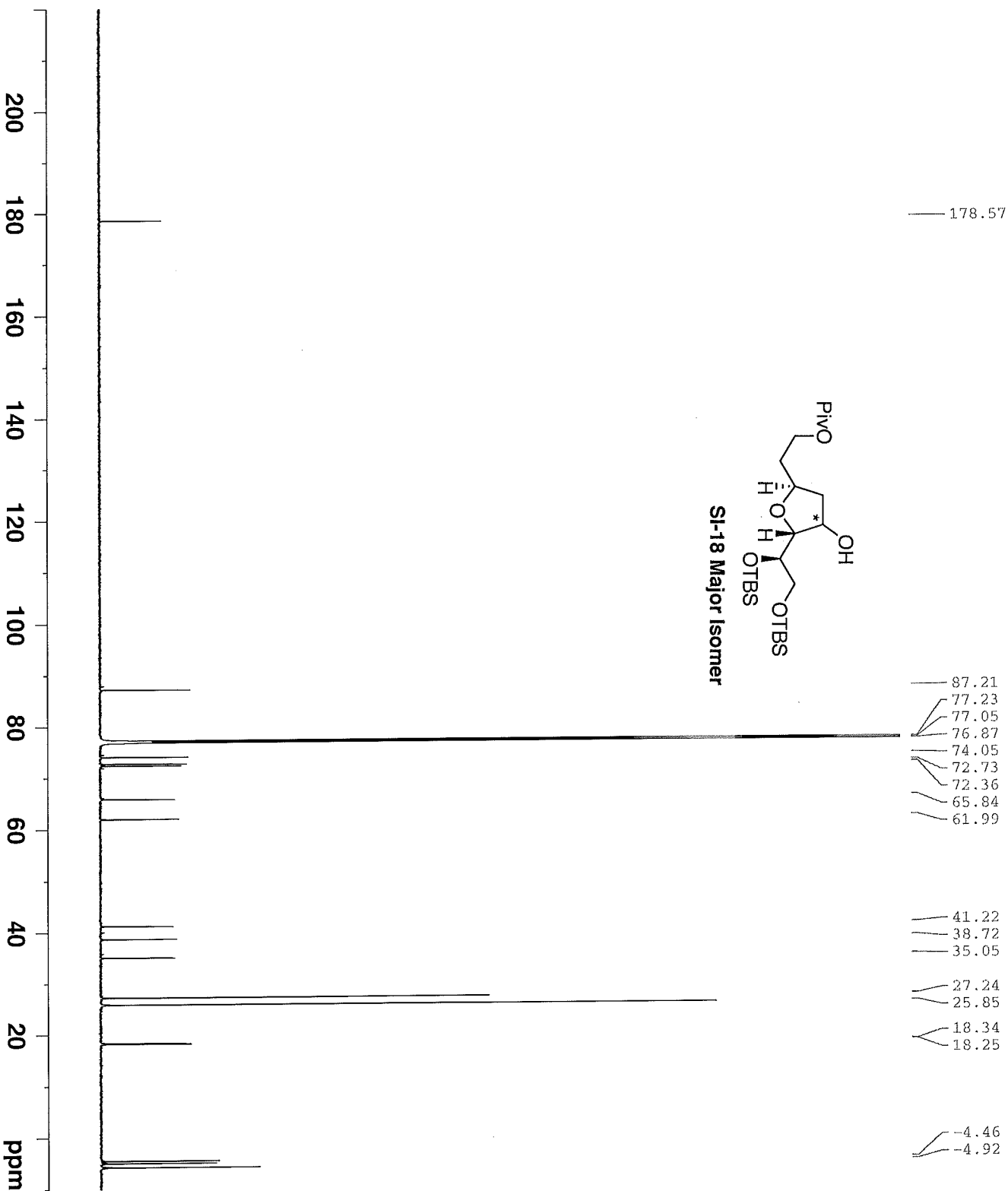
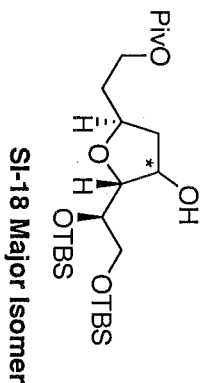


```

NAME          SUM-XTI-23-Alcohol:
EXPNO         2
PROCNO        1
Date_         20110705
Time          21.30
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SFWH          11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            57
DW            42.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1           -3.20 dB
PL1W          33.59817505 W
SF01          700.1245508 MHz
SI            131072
SF            700.1200000 MHz
WTDW         EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

Alcohol 1 (Major Isomer)



178.57
87.21
77.23
77.05
76.87
74.05
72.73
72.36
65.84
61.99
41.22
38.72
35.05
27.24
25.85
18.34
18.25
-4.46
-4.92

NAME SUM-XII-23-Alcohol

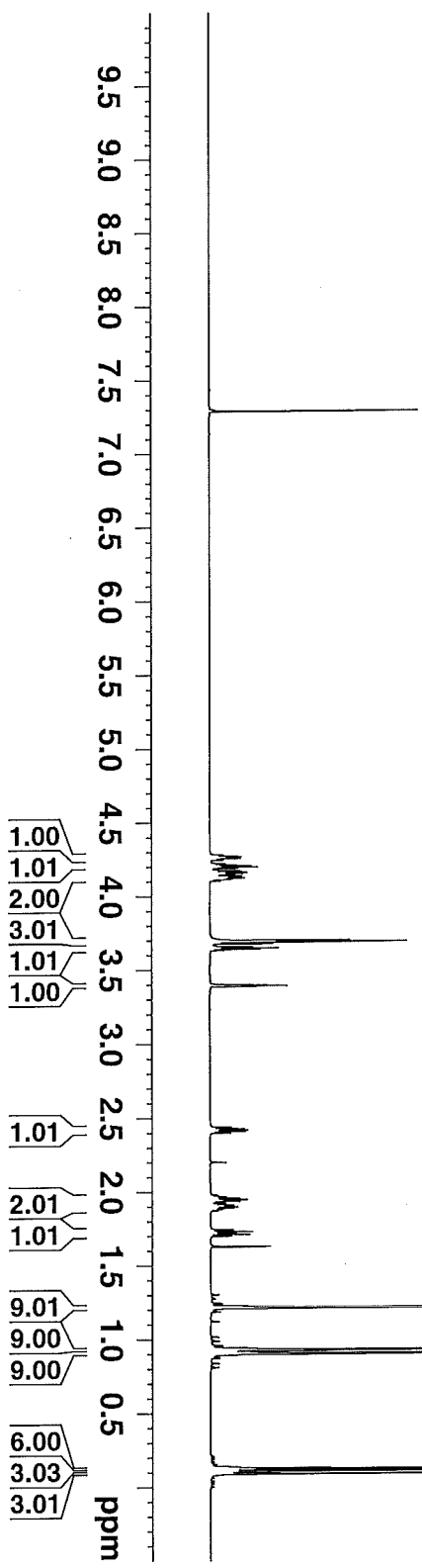
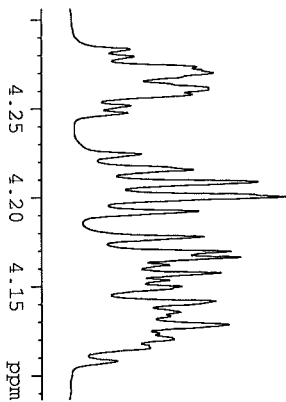
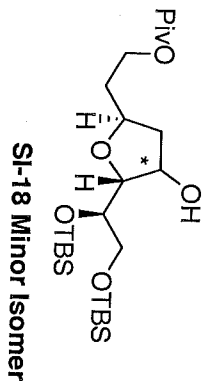
EXPNO 3
PROCNO 1
Date_ 20110705
Time 21.40
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zgpg30
TD 98304
SOLVENT CDCl3
NS 126
DS 4
SWH 41666.668 Hz
FIDRES 0.423855 Hz
AQ 1.1796980 sec
RG 203
DW 12.000 usec
DE 15.00 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 4.50 dB
PL1W 38.14553833 W
SFO1 176.0637988 MHZ

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 65.00 usec
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL12W 33.59817505 W
PL12W 0.70196527 W
PL13W 0.00000000 W
SFO2 700.1228005 MHZ
SI 131072
SF 176.0453140 MHZ
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40

Alcohol (Minor Isomer)

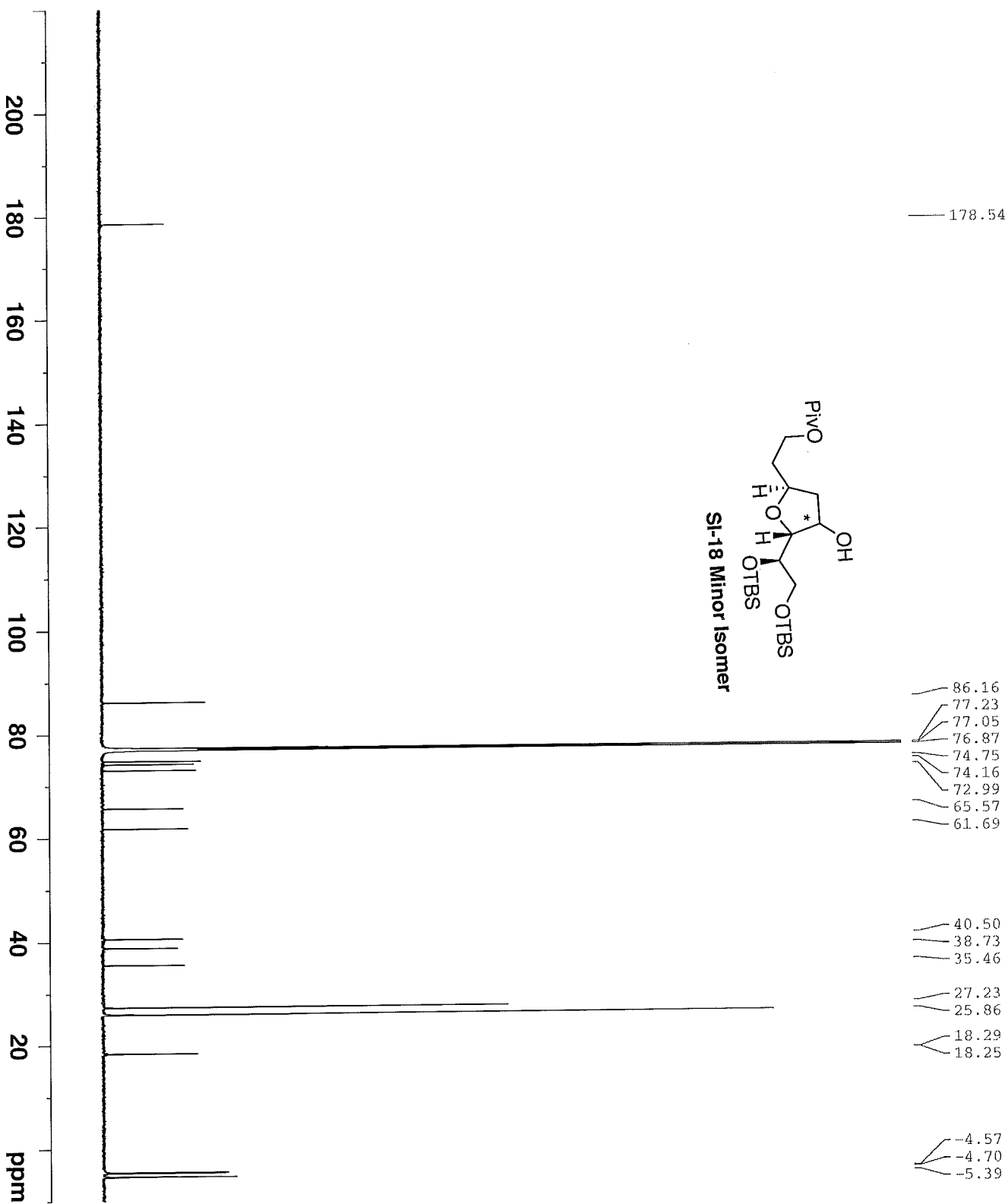
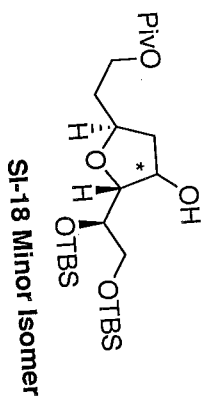
7.290
4.269
4.261
4.258
4.215
4.208
4.199
4.192
4.177
4.169
4.166
4.157
4.150
4.141
4.135
4.128
3.701
3.698
3.693
3.689
3.679
3.659
3.651
3.642
3.399
3.394
3.390
2.429
2.421
2.412
1.958
1.950
1.939
1.912
1.901
1.732
1.727
1.719
1.715
1.215
0.929
0.904
0.128
0.125
0.109
0.091



NAME SUM-XTI-23-Alcohol
EXPNO 7
PROCNO 1
Date_ 20110705
Time 23.51
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zg30
TD 95236
SOLVENT CDCl3
NS 18
DS 2
SWE 11904.762 Hz
FIDRES 0.125003 Hz
AQ 3.9999621 sec
RG 57
DE 42.000 us
DW 16.50 us
TE 298.2 K
D1 2.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 9.40 us
PL1 -3.20 dB
PL1W 33.59817505 W
SF01 700.1245508 MHz
SI 131072
SF 700.1200000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Alcohol (Minor Isomer)



- 178.54
- 86.16
- 77.23
- 77.05
- 76.87
- 74.75
- 74.16
- 72.99
- 65.57
- 61.69
- 40.50
- 38.73
- 35.46
- 27.23
- 25.86
- 18.29
- 18.25
- 4.57
- 4.70
- 5.39

```

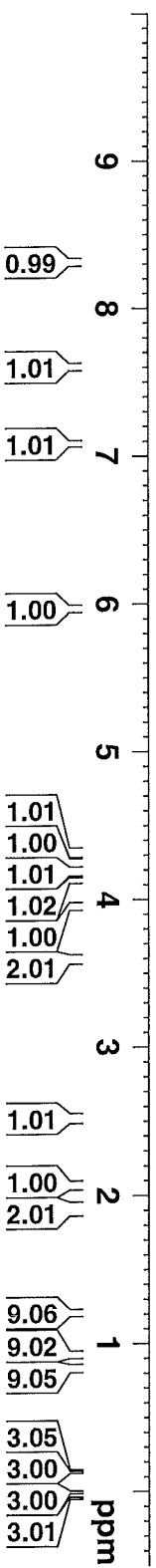
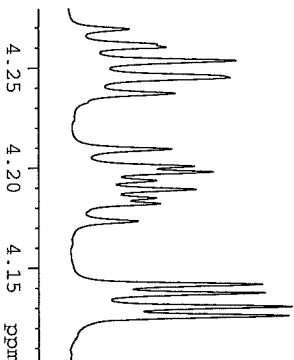
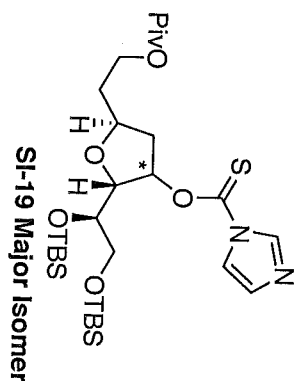
NAME          SUM-XII-23-Alcohol:
EXPNO         8
PROCNO        1
Date_         20110706
Time         17.38
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            98304
SOLVENT       CDCl3
NS            201
DS            4
SWH           41666.668 Hz
FIDRES        0.423855 Hz
AQ            1.1796980 sec
RG            203
DW            12.000 usec
DE            15.00 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0637988 MHz

===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2         65.00 usec
PL2           -3.20 dB
PL12          13.60 dB
PL13          120.00 dB
PL1W          33.59817505 W
PL12W         0.70196527 W
PL13W         0.00000000 W
SFO2          700.1228005 MHz
SI            131072
SF            176.0453140 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
  
```

Major Thioate

8.318
7.608
7.290
7.092
7.091
7.090
5.976
5.971
5.966
4.321
4.253
4.245
4.237
4.209
4.200
4.197
4.189
4.141
4.137
4.130
4.125
3.971
3.965
3.960
3.958
3.954
3.947
3.602
3.595
3.589
2.536
2.527
2.515
2.506
2.067
1.929
1.920
1.910
1.901
1.213
0.927
0.839
0.143
0.131
-0.002
-0.044



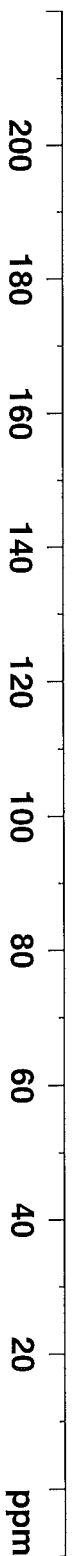
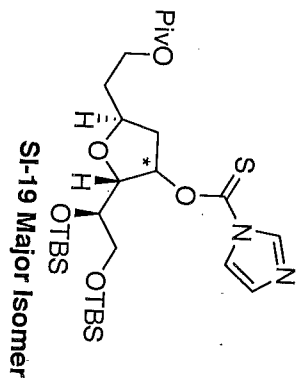
```

NAME SUM-XI-81-Thioate
EXPNO 1
PROCNO 1
Date_ 20110612
Time 19.22
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 32
DS 2
SWMH 11904.762 Hz
FIDRES 0.181652 Hz
AQ 2.7525620 sec
RG 57
DE 42.000 us
TE 298.2 K
D1 2.00000000 sec
D10 1

===== CHANNEL f1 =====
NUC1 1H
P1 9.40 us
PL1 -3.20 dB
PLW 33.59817505 W
SFO1 700.1245508 MHz
SI SF 65536
SF 700.1200000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00
  
```

Major Thioate

- 182.69
- 178.43
- 136.61
- 131.09
- 117.74
- 84.43
- 82.24
- 77.23
- 77.05
- 76.87
- 73.87
- 72.70
- 66.09
- 61.52
- 39.35
- 38.75
- 35.04
- 27.22
- 25.99
- 25.85
- 18.52
- 18.38
- 4.46
- 4.60



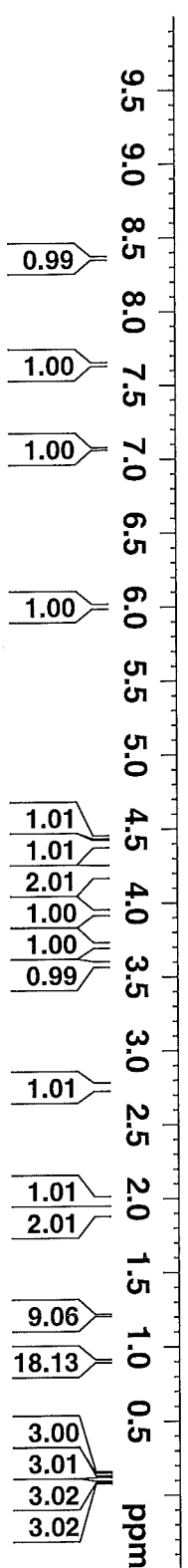
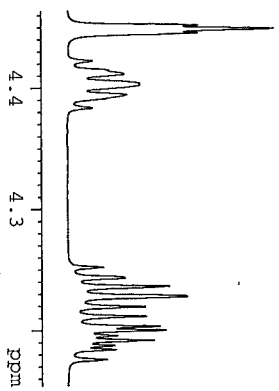
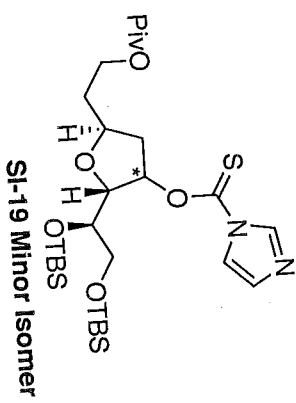
NAME	SUM-XI-81-Thioate
EXPNO	2
PROCNO	1
Date_	20110612
Time	19.31
INSTRUM	spect
PROBHD	5 mm CPDCH 13C
PULPROG	zgpg30
TD	98304
SOLVENT	CDCl3
NS	1009
DS	4
SWH	41666.668 Hz
FIDRES	0.423855 Hz
AQ	1.1796980 sec
RG	203
DW	12.000 usec
DE	15.00 usec
TE	298.2 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1

===== CHANNEL f1 =====	
NUC1	13C
P1	9.00 usec
PL1	4.50 dB
PL1W	38.14553833 W
SFO1	176.0637988 MHz

===== CHANNEL f2 =====	
CPDPRG2	waltz16
NUC2	1H
PCPD2	65.00 usec
PL2	-3.20 dB
PL12	13.60 dB
PL13	120.00 dB
PL12W	33.59817505 W
PL13W	0.70196527 W
SFO2	0.00000000 MHz
SI	700.1228005 MHz
SF	131072
WDW	EM
SSB	0
LB	3.00 Hz
GB	0
PC	1.40

Minor Thioate

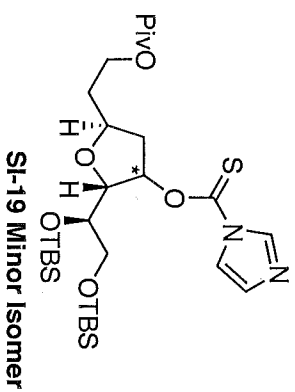
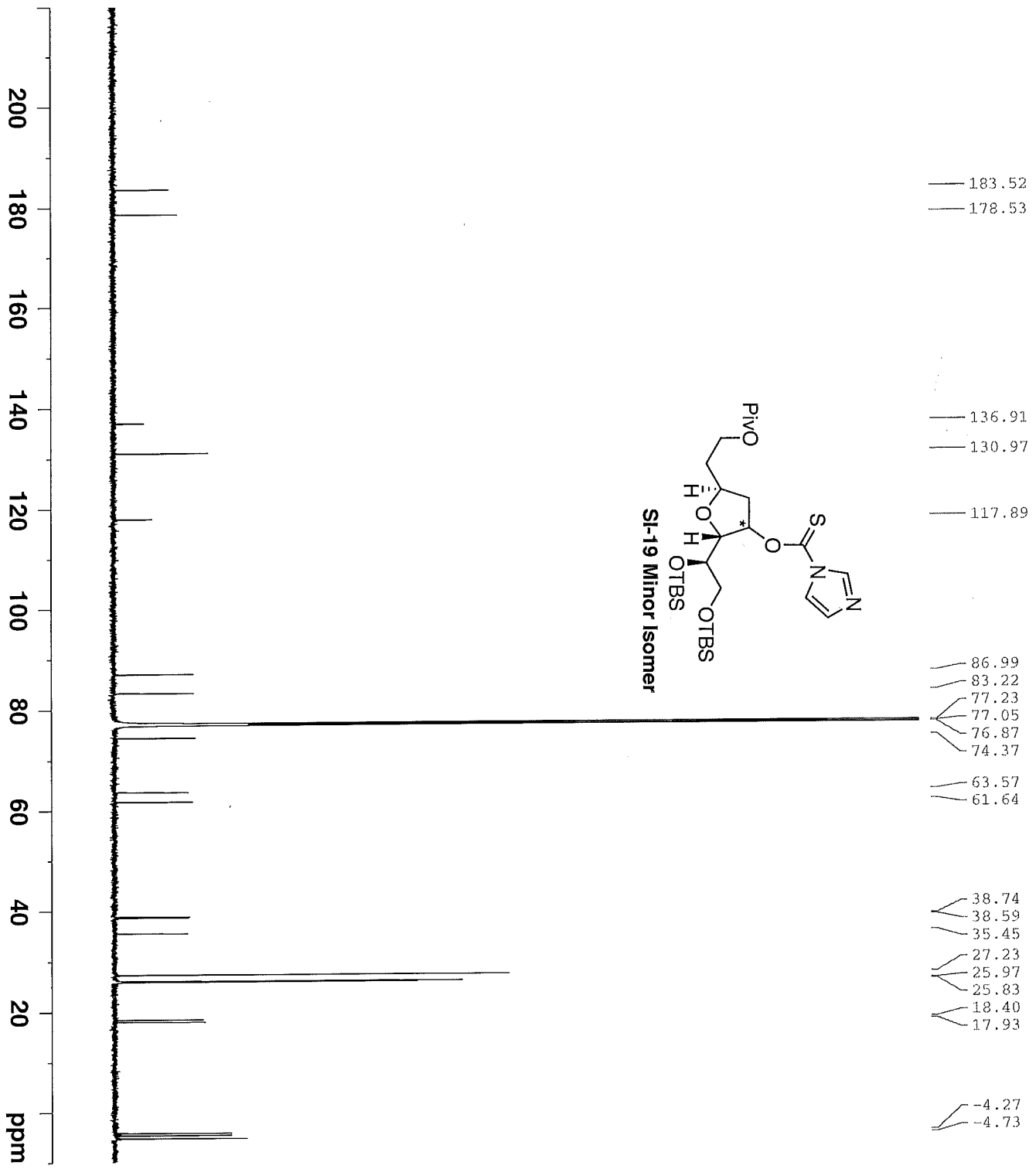
8.366
7.648
7.646
7.644
7.290
7.076
7.075
7.074
7.073
6.012
6.003
4.451
4.448
4.445
4.236
4.227
4.219
4.211
4.203
4.199
4.191
3.941
3.937
3.933
3.728
3.717
3.714
3.703
3.597
3.590
3.583
3.576
2.769
2.759
2.749
1.982
1.925
1.916
1.913
1.905
1.215
0.910
0.159
0.131
0.094
0.085



NAME SUM-XI-80-Thioate
 EXPNO 3
 PROCNO 1
 Date_ 20110615
 Time 22.43
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zg30
 TD 95236
 SOLVENT CDCl3
 NS 24
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 101
 DW 42.000 usec
 DE 16.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 9.40 usec
 PL1 -3.20 dB
 PL1W 33.59817505 W
 SF01 700.1245508 MHz
 SI 131072
 SF 700.1200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Minor Thioate



- 183.52
- 178.53
- 136.91
- 130.97
- 117.89
- 86.99
- 83.22
- 77.23
- 77.05
- 76.87
- 74.37
- 63.57
- 61.64
- 38.74
- 38.59
- 35.45
- 27.23
- 25.97
- 25.83
- 18.40
- 17.93
- 4.27
- 4.73

```

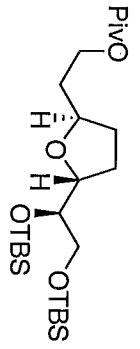
NAME          SUM-XI-80-Thioate
EXPNO         4
PROCNO        1
Date_         20110615
Time          22.49
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            98304
SOLVENT       CDCl3
NS            129
DS            4
SWH           41666.668 Hz
FIDRES        0.423855 Hz
AQ            1.1796980 sec
RG            203
DW            12.000 usec
DE            15.00 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SF01          176.0637988 MHz

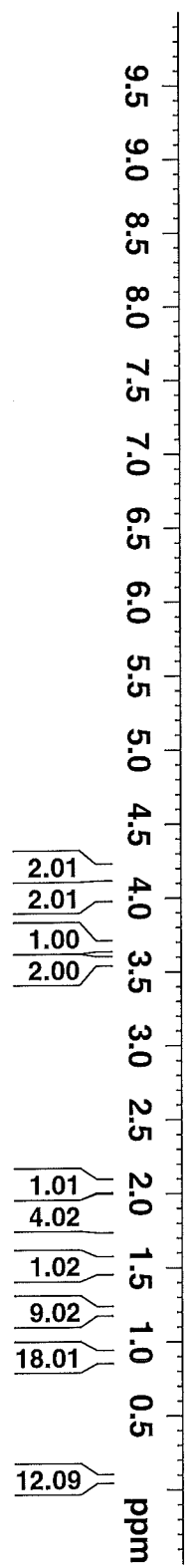
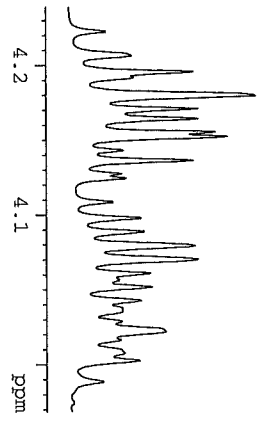
===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SF02          700.1228005 MHz
SI           131072
SF           176.0453140 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```


Tetrahydrofuran

7.282	
4.195	
4.179	
4.170	
4.164	
4.154	
4.152	
4.136	
4.079	
4.070	
4.060	
4.051	
4.021	
3.703	
3.683	
3.674	
3.654	
3.595	
3.582	
3.574	
3.572	
3.566	
3.553	
1.935	
1.918	
1.884	
1.867	
1.853	
1.849	
1.842	
1.835	
1.831	
1.813	
1.799	
1.796	
1.783	
1.544	
1.520	
1.514	
1.207	
0.909	
0.905	
0.091	
0.089	
0.074	
0.069	



53



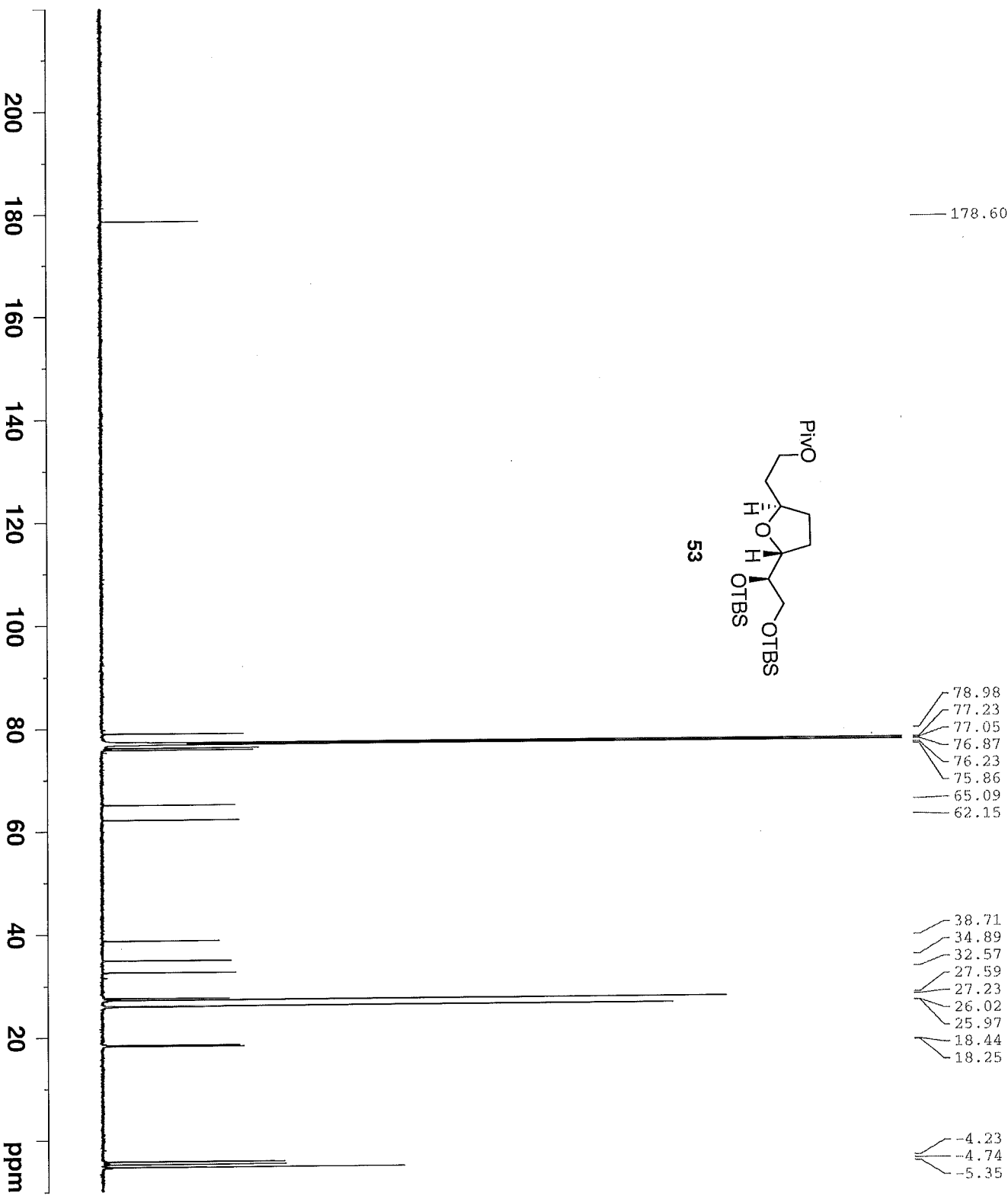
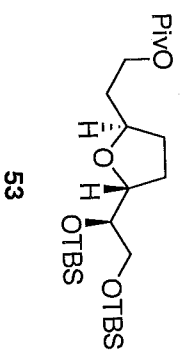
```

NAME          SUM-XI-82-R-FHF
EXPNO         2
PROCNO        1
Date_         20110614
Time          0.08
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENT       CDCl3
NS            32
DS            2
SWH           6793.478 Hz
FIDRES       0.207320 Hz
AQ           2.4117749 sec
RG           45.3
DE           73.600 usi
TE           298.2 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           14.00 usi
PL1          0.00 dB
SF01         400.1424008 MHZ
SI           32768
SF           400.1400000 MHZ
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Tetrahydrofuran

178.60



- 78.98
- 77.23
- 77.05
- 76.87
- 76.23
- 75.86
- 65.09
- 62.15
- 38.71
- 34.89
- 32.57
- 27.59
- 27.23
- 26.02
- 25.97
- 18.44
- 18.25
- 4.23
- 4.74
- 5.35

```

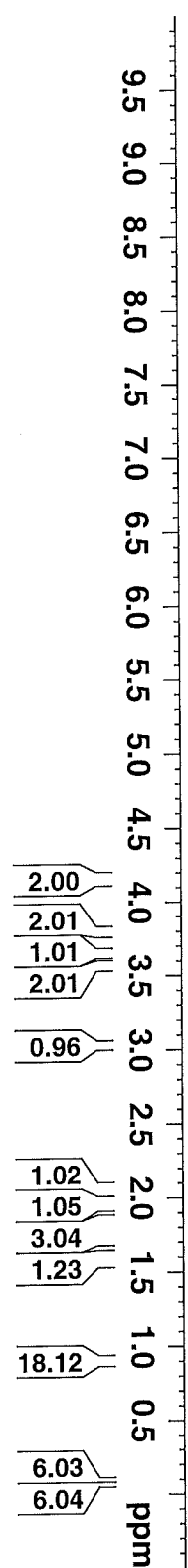
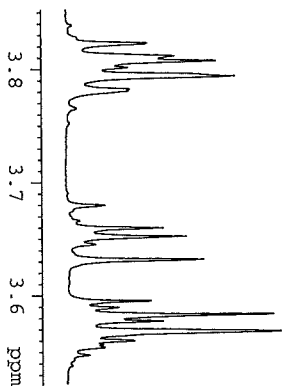
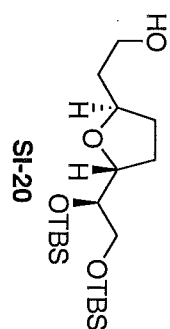
NAME          SUM-XI-82-top THF
EXPNO         4
PROCNO        1
Date_         20110614
Time          17.56
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            98304
SOLVENTP      CDCl3
NS            101
DS            4
SWH           41666.668 Hz
FIDRES        0.423855 Hz
AQ            1.1796980 sec
RG            203
DW            12.000 usec
DE            15.00 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1         176.0637988 MHz

===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2         700.1228005 MHz
SI           131072
SF           176.0453140 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```

Alcohol

7.282	EXPNO	1
4.178	PROCNO	1
4.168	Date_	20110614
4.159	Time	19.58
4.150	INSTRUM	robinson
4.145	PROBHD	5 mm PABBO BB-
4.141	PULPROG	zg30
4.132	TD	32768
3.822	SOLVENT	CDCl3
3.811	NS	32
3.806	DS	2
3.801	SWH	6793.478 Hz
3.792	FIDRES	0.207320 Hz
3.782	AQ	2.4117749 sec
3.780	RG	128
3.659	DW	73.600 usec
3.651	DE	6.50 usec
3.631	TE	298.3 K
3.594	D1	2.00000000 sec
3.589	TD0	1
3.582		
3.576		
3.567		
3.559		
3.5048		
3.5034		
3.5020		
1.964		
1.855		
1.831		
1.820		
1.811		
1.800		
1.784		
1.774		
1.763		
1.757		
1.739		
1.722		
1.616		
1.587		
0.910		
0.909		
0.096		
0.073		
0.068		



```

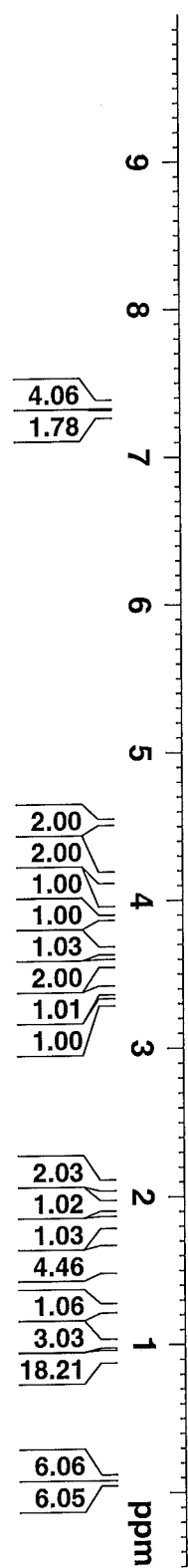
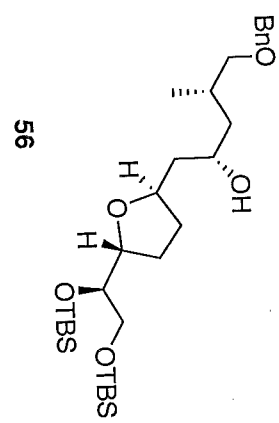
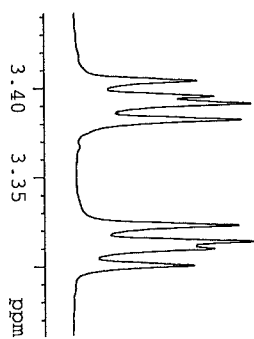
SUM-XI-83-R-Alcohol
NAME
EXPNO 1
PROCNO 1
Date_ 20110614
Time 19.58
INSTRUM robinson
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 6793.478 Hz
FIDRES 0.207320 Hz
AQ 2.4117749 sec
RG 128
DW 73.600 usec
DE 6.50 usec
TE 298.3 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.00 usec
PL1 0.00 dB
SF01 400.1424008 MHz
SI SF 32768
SF 400.1400000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

```


alcohol

- 7.361
- 7.355
- 7.298
- 7.292
- 7.286
- 4.532
- 4.170
- 4.164
- 4.159
- 4.154
- 4.149
- 3.931
- 3.888
- 3.666
- 3.661
- 3.649
- 3.589
- 3.581
- 3.576
- 3.572
- 3.403
- 3.394
- 3.390
- 3.381
- 3.322
- 3.313
- 3.309
- 3.300
- 2.080
- 2.071
- 1.652
- 1.632
- 1.597
- 1.550
- 1.531
- 1.516
- 1.284
- 1.250
- 1.013
- 1.004
- 0.915
- 0.911
- 0.102
- 0.099
- 0.073
- 0.070



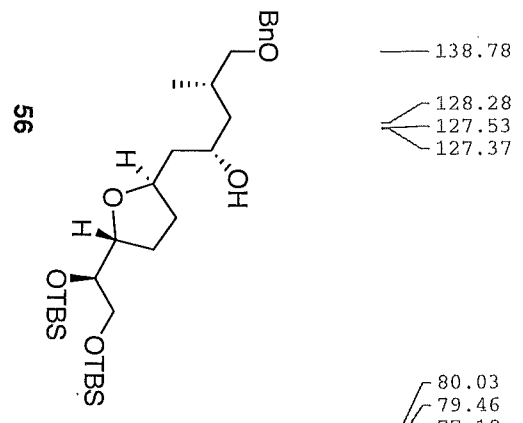
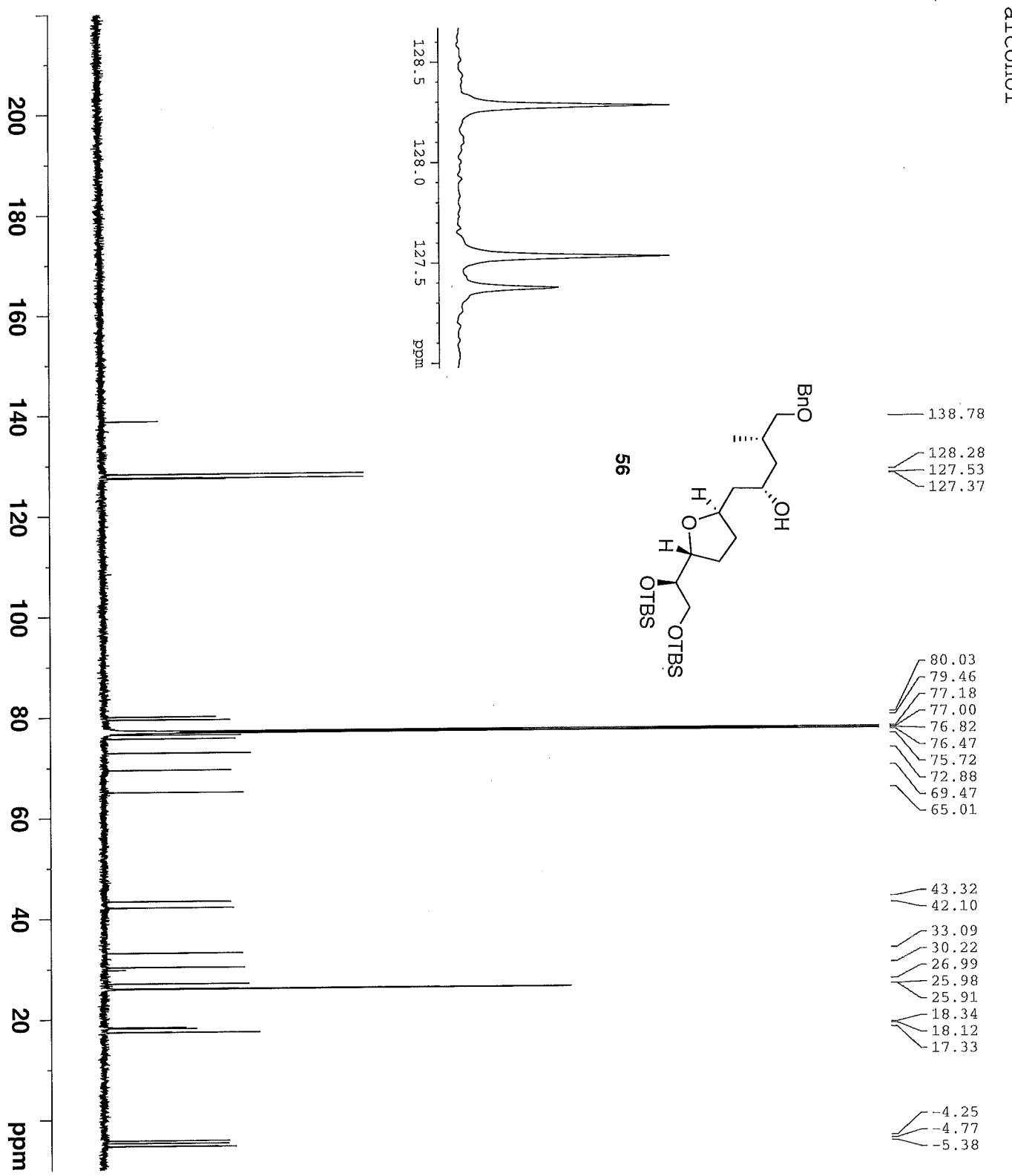
```

NAME          SUM-XIV-22-Alcohol
EXPNO         1
PROCNO        1
Date_         20111023
Time          22.28
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 se
RG            128
DW            42.000 us
DE            6.50 us
TE            299.0 K
D1            2.00000000 se
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            13.75 us
PL1          -3.00 dB
PL1W         32.08600616 W
SFO1         700.1516910 MH
SI           131072
SF           700.1471400 MH:
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00

```

alcohol



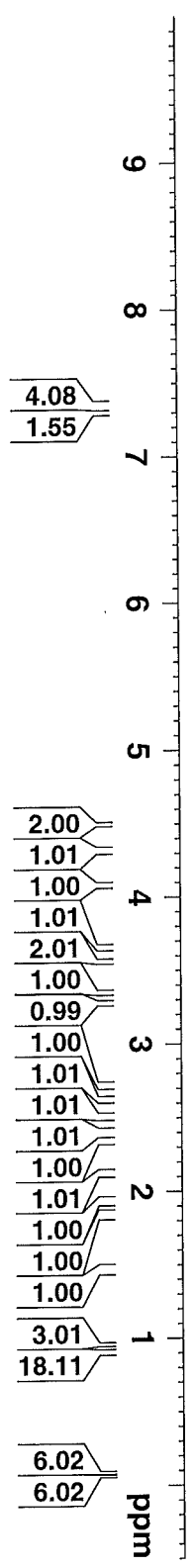
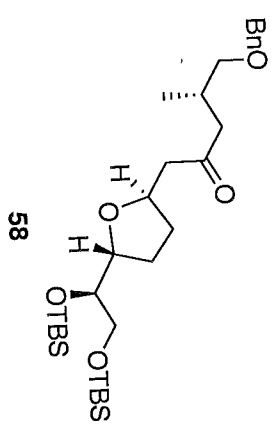
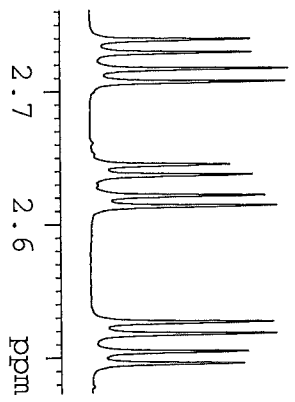
NAME	SUM-XIV-22-Alcohol
EXPNO	2
PROCNO	1
Date_	201111023
Time	23.20
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	1024
DS	4
SWH	41666.668 Hz
FIDRES	0.635783 Hz
AQ	0.7864820 sec
RG	203
DW	12.000 usec
DE	6.50 usec
TE	300.4 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1

===== CHANNEL F1 =====	===== CHANNEL F2 =====
NUC1	13C
P1	9.30 usec
PL1	2.00 dB
PL1W	67.83342743 W
SFO1	176.0706238 MHz

===== CHANNEL F2 =====	===== CHANNEL F1 =====
CPDPRG2	waltz16
NUC2	1H
PCPD2	80.00 usec
PL2	-3.00 dB
PL12	12.30 dB
PL13	12.30 dB
PL12W	32.08600616 W
PL11W	0.94692516 W
PL13W	0.94692516 W
SFO2	700.1499406 MHz
SI	32768
SF	176.0521380 MHz
WDW	EM
SSB	0
LB	3.00 Hz
GB	0
PC	1.40

Ketone

7.366	
7.356	
7.345	
7.343	
7.288	
4.499	
4.084	
4.079	
3.663	
3.658	
3.646	
3.569	
3.566	
3.564	
3.560	
3.362	
3.354	
3.349	
3.341	
3.292	
3.282	
3.279	
3.269	
2.738	
2.729	
2.716	
2.707	
2.644	
2.636	
2.621	
2.613	
2.526	
2.517	
2.504	
2.495	
2.364	
2.353	
2.341	
2.330	
0.965	
0.955	
0.908	
0.091	
0.084	
0.068	
0.065	



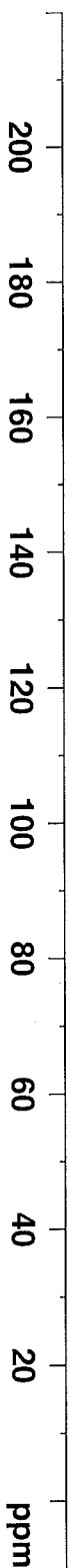
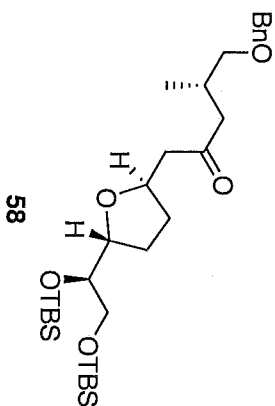
```

SUM-XV-16-Ketone
NAME
EXPNO 1
PROCNO 1
Date_ 20120402
Time 0.27
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zg30
TD 95236
SOLVENT CDCl3
NS 32
DS 2
SWH 11904.762 HZ
FIDRES 0.125003 HZ
AQ 3.9999621 se
RG 40.3
DW 42.000 us
DE 6.50 us
TE 298.2 K
D1 2.00000000 se
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 9.40 us
PL1 -3.20 dB
PL1W 33.59817505 W
SFO1 700.1516910 MH
SI 131072
SF 700.1471400 MH
WDW EM
SSB 0
LB 0.30 HZ
GB 0
PC 1.00
  
```

Ketone

- 209.07
- 138.54
- 128.37
- 127.59
- 127.53
- 78.97
- 77.24
- 77.06
- 76.88
- 75.77
- 75.51
- 75.01
- 72.91
- 65.01
- 49.36
- 47.55
- 32.55
- 29.51
- 27.43
- 26.03
- 25.96
- 18.43
- 18.22
- 17.24
- 4.23
- 4.73
- 5.33



```

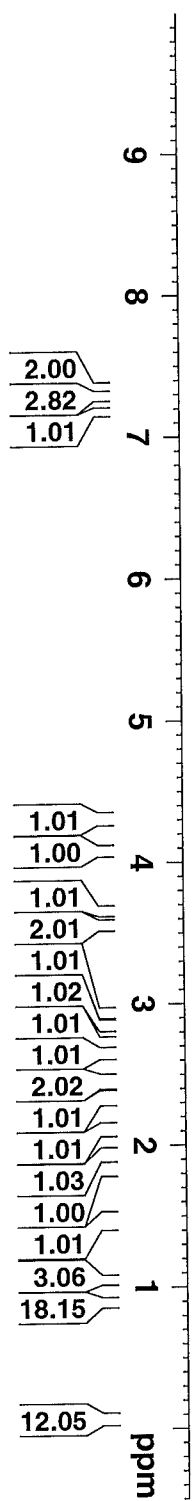
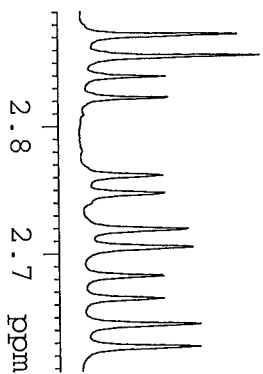
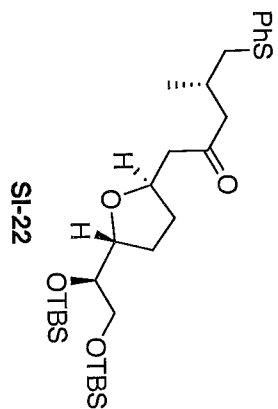
NAME          SUM-XV-16-Ketone
EXPNO         2
PROCNO        1
Date_         20120402
Time         0.36
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            206
DS            4
SWH           41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DE           12.000 us
TE           298.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          13C
P1           9.00 us
PL1          4.50 dB
PL1W         38.14553833 W
SFO1         176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 us
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2         700.1499406 MHz
SI           32768
SE           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```


Sulfide

7.373
7.369
7.351
7.349
7.308
7.289
7.285
7.283
7.270
7.197
7.179
4.088
4.080
3.664
3.656
3.636
3.571
3.559
3.555
2.929
2.913
2.871
2.854
2.822
2.747
2.718
2.704
2.682
2.664
2.644
2.626
2.488
2.473
2.469
2.450
2.408
1.066
1.049
0.907
0.905
0.089
0.081
0.065
0.061



NAME: SUD-XVII-R-20-Sulf1
 EXPNO: 1
 PROCNO: 1
 Date_: 20121121
 Time: 22.41
 INSTRUM: robinson
 PROBHD: 5 mm PABBO BB-
 PULPROG: zg30
 TD: 32768
 SOLVENT: CDCl3
 NS: 21
 DS: 2
 SWH: 7183.908 Hz
 FIDRES: 0.219235 Hz
 AQ: 2.2807028 sec
 RG: 128
 DE: 69.600 usec
 TE: 298.2 K
 D1: 2.00000000 sec
 TD0: 1

===== CHANNEL f1 =====
 NUCL1: 1H
 P1: 11.20 usec
 PL1: 0.00 dB
 SF01: 400.1428010 MHz
 SI: 32768
 SF: 400.1400000 MHz
 WDW: EM
 SSB: 0
 LB: 0.30 Hz
 GB: 0
 PC: 1.00

Sulfide

SUM-VIIT-20-Sulfide

208.61

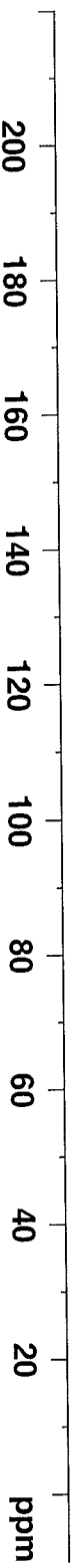
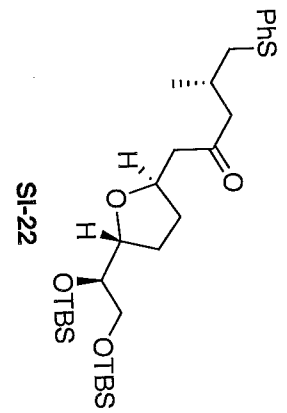
136.74
129.07
128.92
125.85

78.97
77.23
77.05
76.87
75.76
75.52
64.98

49.44
49.05

40.41
32.57
28.74
27.38
26.02
25.95
19.68
18.43
18.20

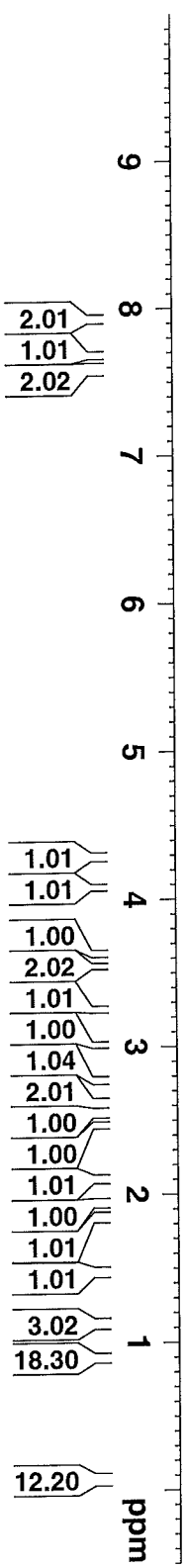
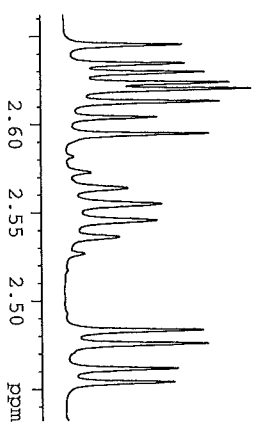
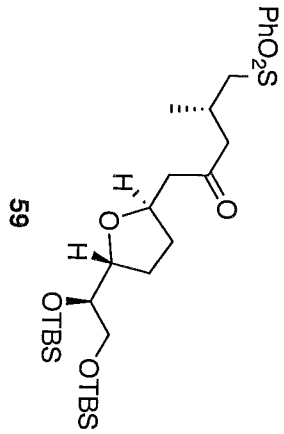
4.23
4.72
5.33



NAME	EXPNO	2	PROCNO	1	DATE_	20121121	TIME	22.23	INSTRUM	spect	PROBHD	5 mm CPDCH 13C	PULPROG	zgpg30	TD	65536	SOLVENT	CDCl3	NS	74	DS	4	SWH	41666.668 Hz	FIDRES	0.635783 Hz	AQ	0.7864820 sec	RG	203	DW	12.000 usec	DE	16.50 usec	TE	298.2 K	D1	2.00000000 sec	D11	0.03000000 sec	TD0	1			
===== CHANNEL f1 =====	MUCL1	13C	P1	9.00 usec	PL1	4.50 dB	PL1W	38.14553833 W	SFO1	176.0706238 MHz	===== CHANNEL f2 =====	CPDPRG2	waltz16	NUC2	1H	PCPD2	65.00 usec	PL2	-3.20 dB	PL12	13.60 dB	PL13	120.00 dB	PL2W	33.59817505 W	PL12W	0.70196527 W	PL13W	0.00000000 W	SFO2	700.1499406 MHz	SI	32768	SF	176.0521380 MHz	WDW	EM	SSB	0	LB	3.00 Hz	GB	0	PC	1.40

Sulfone

- 7.937
- 7.936
- 7.925
- 7.923
- 7.678
- 7.667
- 7.606
- 7.595
- 7.291
- 4.088
- 4.083
- 3.636
- 3.631
- 3.619
- 3.554
- 3.545
- 3.271
- 3.262
- 3.250
- 3.242
- 3.029
- 3.019
- 3.009
- 2.999
- 2.792
- 2.784
- 2.767
- 2.758
- 2.629
- 2.623
- 2.619
- 2.612
- 2.594
- 2.554
- 2.545
- 2.483
- 2.475
- 2.461
- 2.453
- 1.136
- 1.126
- 0.901
- 0.084
- 0.071
- 0.060
- 0.057



NAME: SUD-XVIIIT-21-Sulfone

EXPNO: 1

PROCNO: 1

Date_: 20121126

Time: 19.02

INSTRUM: spect

PROBHD: 5 mm CPDCH 13C

PULPROG: zg30

TD: 95236

SOLVENT: CDCl3

NS: 32

DS: 2

SWH: 11904.762 Hz

FIDRES: 0.125003 Hz

AQ: 3.9999621 sec

RG: 25.4

DW: 42.000 usec

DE: 6.50 usec

TE: 298.3 K

D1: 2.00000000 sec

TD0: 1

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

NUC1: 1H

p1: 9.40 usec

PL1: -3.20 dB

PL1W: 33.59817505 W

SFO1: 700.1516910 MHz

SI: 131072

SF: 700.1471400 MHz

WDW: EM

SSB: 0

LB: 0.30 Hz

GB: 0

PC: 1.00

Sulfone

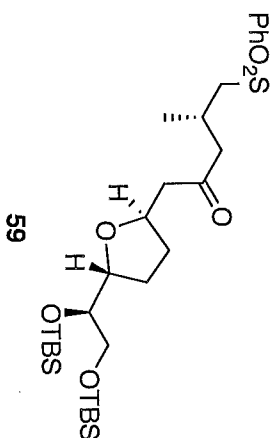
207.75

139.77
133.68
129.31
127.94

78.99
77.24
77.06
76.88
75.71
75.50
64.93
60.97
49.31
48.63

32.53
27.33
26.01
25.95
24.68
20.20
18.41
18.19

-4.24
-4.72
-5.34



```

NAME          SUM-XVIIII-21-Sulfone
EXPNO         3
PROCNO        1
Date_         20121126
Time         19.16
INSTRUM      spect
PROBHD       5 mm CPDCH 13C
PULPROG      zgpg30
TD           65536
SOLVENT      CDCl3
NS           150
DS           4
SWH          41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           16.50 usec
TE           298.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1
    
```

```

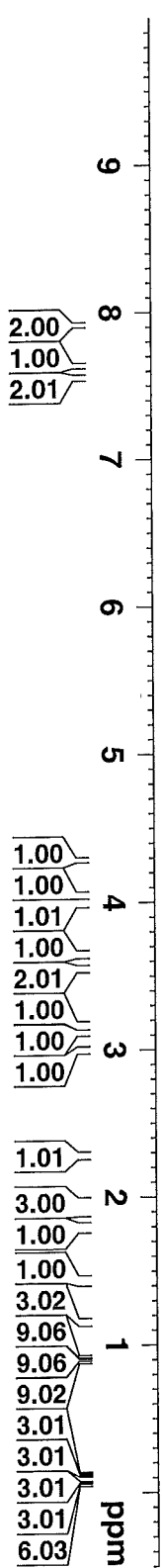
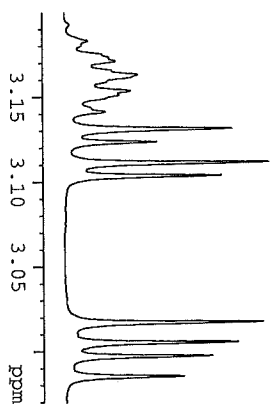
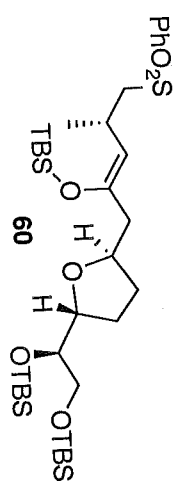
===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz
    
```

```

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1W          33.59817505 W
PL12W         0.70196527 W
PL13W         0.00000000 W
SFO2          700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```

TBS Enol Ether (T)

- 7.926
- 7.924
- 7.914
- 7.912
- 7.641
- 7.631
- 7.569
- 7.558
- 7.547
- 7.288
- 4.295
- 4.282
- 4.053
- 4.048
- 3.655
- 3.650
- 3.639
- 3.560
- 3.551
- 3.131
- 3.123
- 3.111
- 3.103
- 3.017
- 3.005
- 2.997
- 2.985
- 2.299
- 2.290
- 2.277
- 2.269
- 1.950
- 1.940
- 1.929
- 1.919
- 1.161
- 1.152
- 0.925
- 0.900
- 0.887
- 0.133
- 0.113
- 0.073
- 0.064
- 0.057
- 0.054



SUM-XVIII-23-Enol Eth

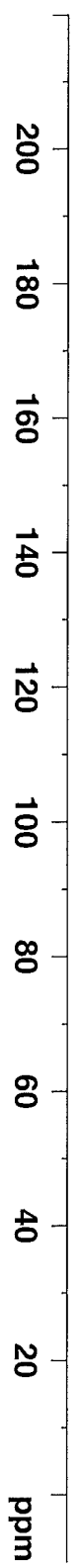
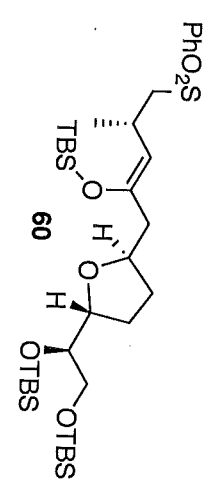
NAME	1
EXPNO	1
PROCNO	1
Date_	20121129
Time	14.45
INSTRUM	spec
PROBHD	5 mm CPDCH 13C
PULPROG	zg30
TD	95236
SOLVENT	CDCl3
NS	32
DS	2
SWH	11904.762 Hz
FIDRES	0.125003 Hz
AQ	3.999621 sec
RG	25.4
DW	42.000 usec
DE	6.50 usec
TE	298.2 K
D1	2.00000000 sec
TD0	1

CHANNEL F1 =====

NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PL1W	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

TBBS Enol Ether (T)

- 148.32
- 140.38
- 133.38
- 129.14
- 127.99
- 112.01
- 79.01
- 77.23
- 77.05
- 76.87
- 75.92
- 65.09
- 62.35
- 42.45
- 32.15
- 27.22
- 26.03
- 25.97
- 25.86
- 25.80
- 25.67
- 20.65
- 18.43
- 18.22
- 18.17
- 3.77
- 3.82
- 4.25
- 6.68



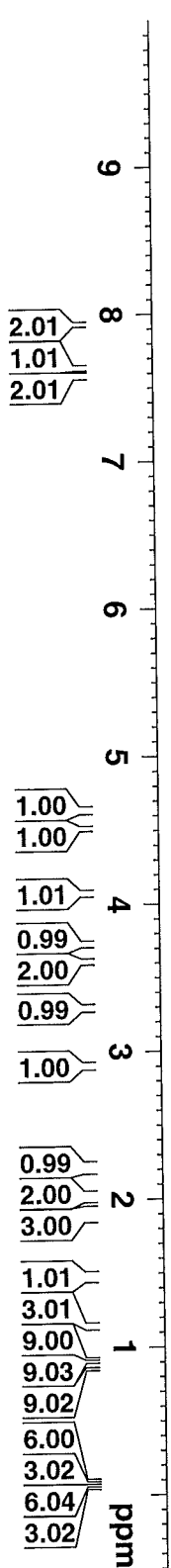
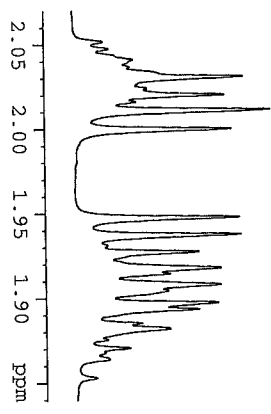
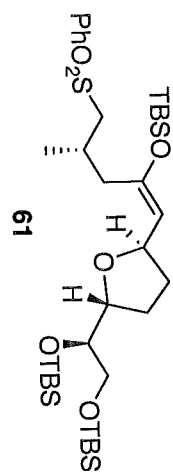
```

NAME          SDM-XVII1-23-Enol Eth
EXPNO         2
PROCNO        1
Date_         20121129
Time         14.55
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            132
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2           -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2          700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
  
```

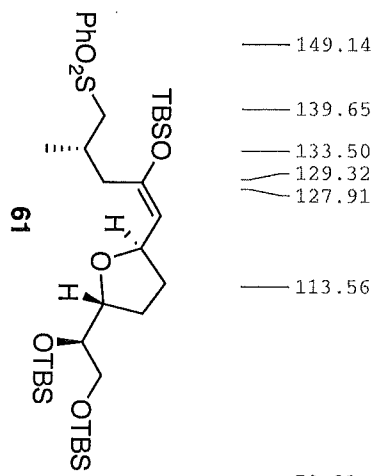
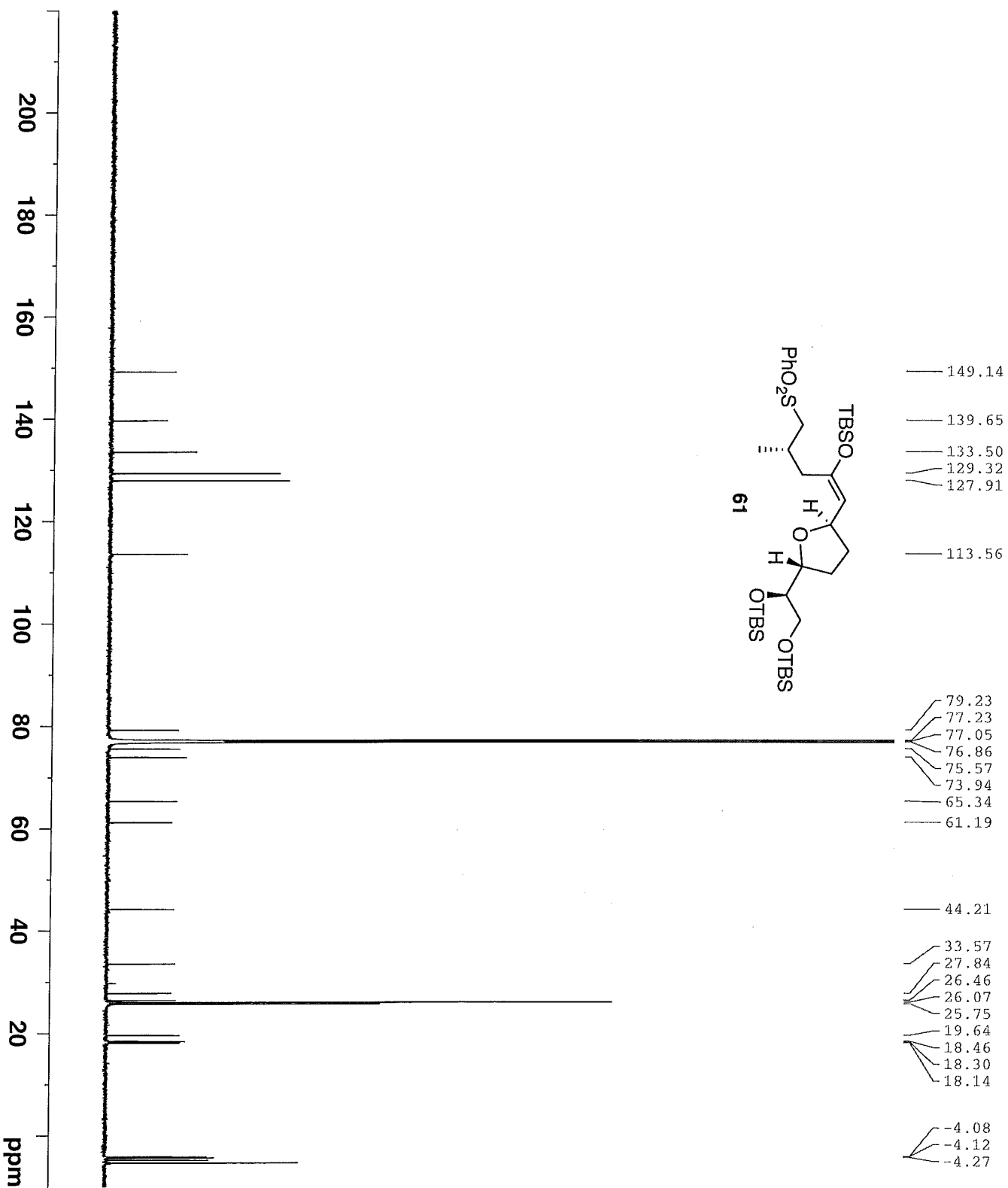
Chemical Shift (ppm)	Assignment
7.941	TBS Enol
7.940	
7.930	
7.928	
7.641	Ether (B)
7.630	
7.598	
7.587	
7.577	
7.288	
4.644	
4.636	
4.525	
4.512	
3.737	
3.731	
3.616	
3.607	
3.311	
3.306	
3.290	
3.285	
2.922	
2.909	
2.901	
2.888	
2.030	
2.019	
2.010	
1.999	
1.947	
1.937	
1.927	
1.917	
1.907	
1.896	
1.154	
1.144	
0.923	
0.909	
0.856	
0.102	
0.086	
0.070	
0.064	
0.050	



```

NAME          SUM-XVIII-23-Enol Eth
EXPNO         4
PROCNO        1
Date_         20121129
Time         20.29
INSTRUM       spect
PROBHD        5 mm GPCCH 13C
PULPROG       zg30
TD            95236
FIDRES        0.125003 Hz
AQ           3.9999621 sec
RG           22.6
DE           42.000 usec
TE           298.3 K
D1           2.00000000 sec
D10          1
===== CHANNEL f1 =====
NUC1          1H
P1           9.40 usec
PL1          -3.20 dB
PL1W        33.59817505 W
SFO1        700.1516910 MHz
SI          131072
SF          700.1471400 MHz
WDW          EM
SSB          0
LB          0.30 Hz
GB          0
PC          1.00
  
```

TBS Enol Ether (B)



- 149.14
- 139.65
- 133.50
- 129.32
- 127.91
- 113.56
- 79.23
- 77.23
- 77.05
- 76.86
- 75.57
- 73.94
- 65.34
- 61.19
- 44.21
- 33.57
- 27.84
- 26.46
- 26.07
- 25.75
- 19.64
- 18.46
- 18.30
- 18.14
- 4.08
- 4.12
- 4.27

```

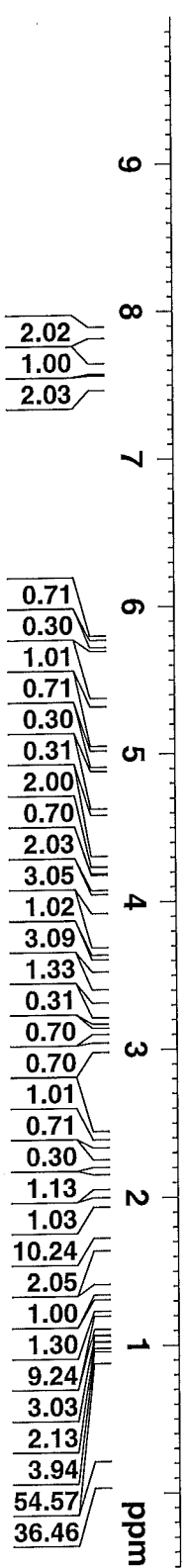
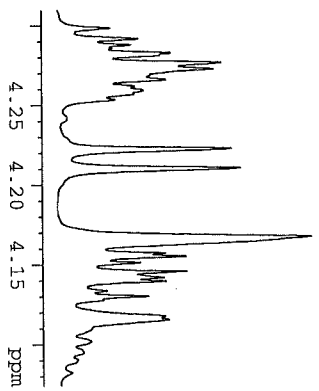
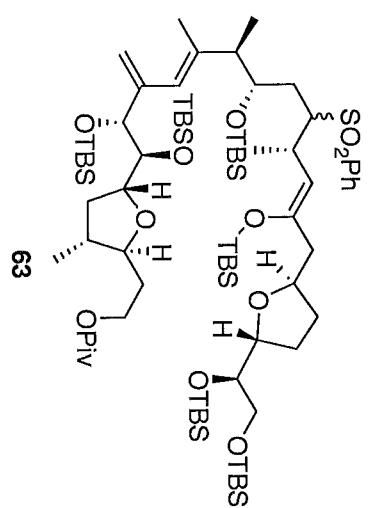
NAME          SDW-XVIII-23-Enol Etb
EXPNO         5
PROCNO        1
Date_         20121129
Time_         20.36
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS           185
DS           4
SWH          41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           16.50 usec
TE           298.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          13C
P1           9.00 usec
PL1          4.50 dB
PL1W         38.14553833 W
SF01         176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SF02         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```


Coupled Sulfone

7.845	7.835	7.833	7.597	7.505	7.494	7.290	5.788	5.363	5.039	4.222	4.210	4.166	4.017	3.670	3.664	3.573	3.569	3.564	1.869	1.868	1.856	1.843	1.835	1.822	1.757	1.756	1.216	1.214	1.191	1.181	1.096	1.087	1.053	1.043	1.011	1.002	0.951	0.948	0.944	0.914	0.910	0.906	0.886	0.129	0.063
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



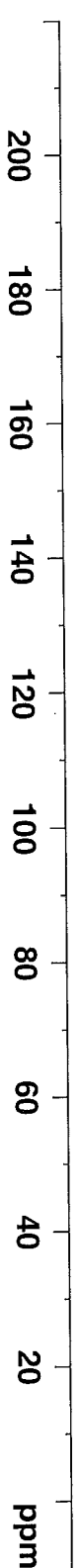
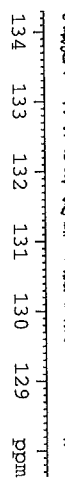
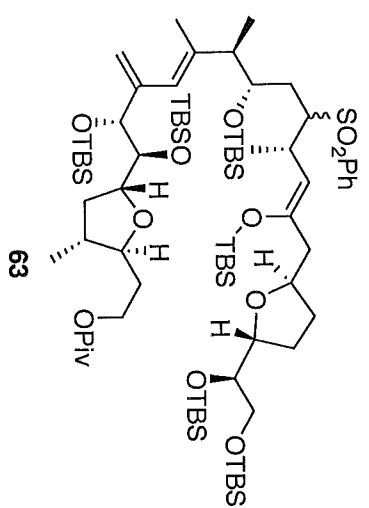
```

NAME          SDX-IX-04-Coupled Sulfo
EXPNO         1
PROCNO        1
Date_         20130129
Time         19.41
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            18
DW            42.000 usec
DE            6.50 usec
TE            298.2 K
D1            2.0000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
P1L1W        33.59817505 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Coupled Sulfone

178.42
148.26
145.71
139.74
138.68
133.17
129.31
129.01
128.82
128.49
124.74
114.86
109.71
80.50
79.63
79.44
79.35
79.26
78.88
77.20
77.02
76.84
75.98
72.35
65.78
65.16
62.12
48.53
42.78
40.35
38.69
38.24
33.17
33.12
31.83
30.75
28.47
27.37
27.21
26.12
26.03
26.00
25.90
25.78
20.13
18.45
18.41
18.36
18.24
18.16
18.11
16.08
15.99
11.22
-3.51
-3.59
-3.74
-3.82
-3.97
-4.07
-4.24
-4.26
-4.30
-4.38
-4.60
-4.64
-4.67
-4.74
-5.35



```

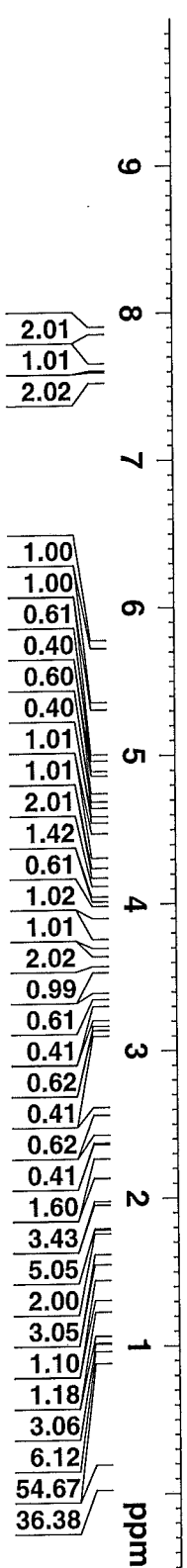
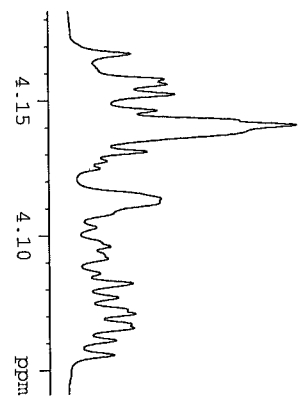
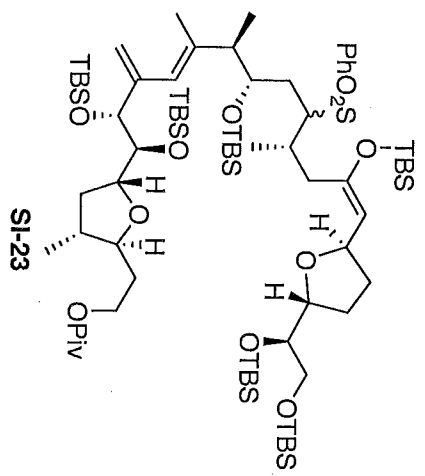
NAME          SDW-IX-04-Coupled Sulfo
EXPNO         2
PROCNO        1
Date_         20130129
Time          20.12
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            534
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            298.1 K
D1            2.0000000 sec
D11           0.0300000 sec
TDO           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

===== CHANNEL F2 =====
CPDPRG2      walcz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1Z         33.59817505 W
PL1ZW        0.70196527 W
PL13W        0.00000000 W
SFO2         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```

Coupled Sulfone

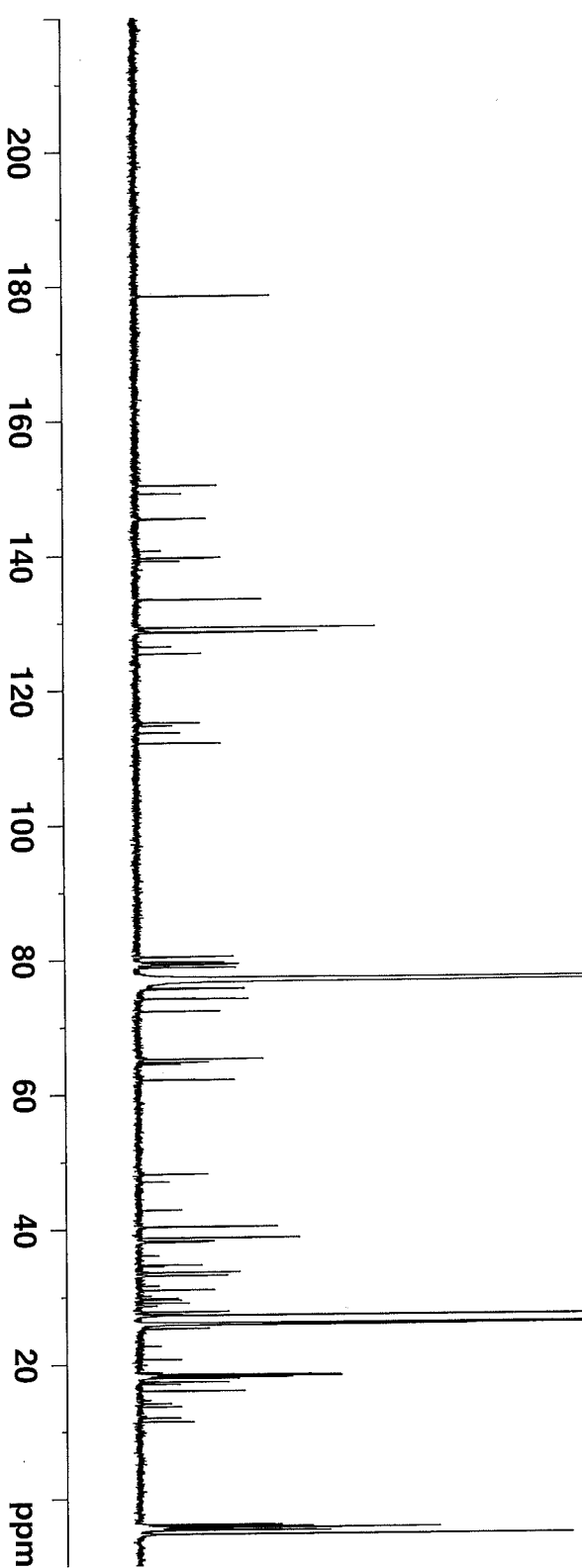
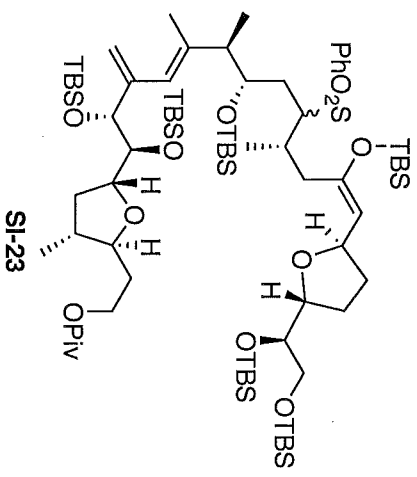
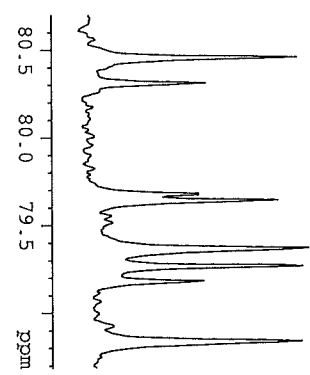
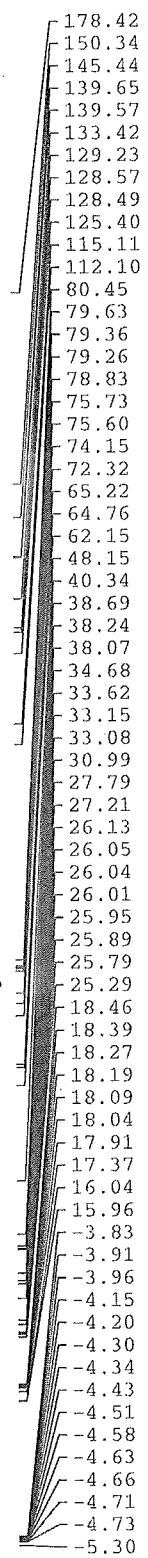
7.885	7.874	7.872	7.636	7.551	7.541	5.762	5.337	5.335	4.990	4.504	4.492	4.140	3.623	3.617	3.613	3.604	3.590	3.556	1.814	1.812	1.776	1.508	1.216	1.215	1.058	1.048	1.008	1.000	0.999	0.954	0.952	0.916	0.911	0.185	0.171	0.133	0.102	0.099	0.096	0.093	0.084	0.082	0.075	0.070	0.067
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



```

NAME          SUM-VIII-38-coupled sulf
EXPNO         1
PROCNO        1
Date_         20130125
Time         19:02
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            20.2
DW            42.000 usec
DE            6.50 usec
TE            298.2 K
TD0           2.00000000 sec
===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

Coupled Sulfone

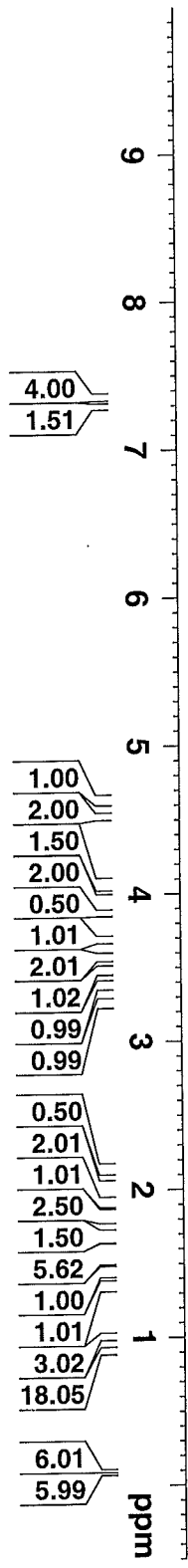
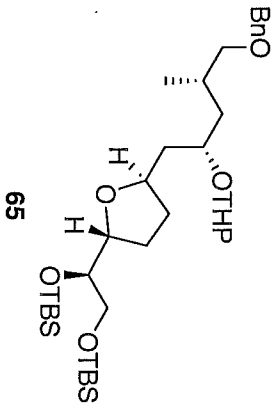
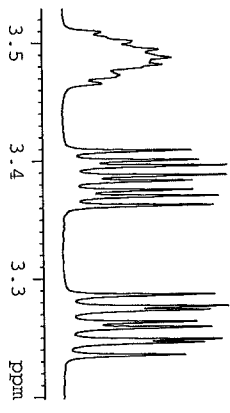


NAME SUM-XVIII-38-Coupled Sulfo
 EXPNO 3
 PROCNO 1
 Date_ 20130125
 Time_ 19:26
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 1633
 DS 4
 SWH 41666.668 Hz
 FIDRES 0.635783 Hz
 AQ 0.7864820 sec
 RG 203
 DW 12.000 usec
 DE 16.50 usec
 TE 298.1 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 DDO 1

==== CHANNEL f1 =====
 NUC1 13C
 P1 9.00 usec
 PL1 4.50 dB
 SFO1 38.14553833 W
 SFO1 176.0706238 MHz
 =====
 CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 ROPD2 1H
 P12 65.00 usec
 PL2 -3.20 dB
 PL12 13.60 dB
 PL13 120.00 dB
 PL13 33.59817505 W
 PL12W 0.701965227 W
 PL13W 0.00000000 W
 SFO2 700.1499406 MHz
 SF 32768
 SF 176.0521380 MHz
 WDW EX
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

THP Acetal

- 7.365
- 7.359
- 7.300
- 7.295
- 7.288
- 4.648
- 4.625
- 4.531
- 4.522
- 4.085
- 4.077
- 3.696
- 3.690
- 3.583
- 3.575
- 3.571
- 3.400
- 3.395
- 3.387
- 3.369
- 3.361
- 3.286
- 3.276
- 3.273
- 3.258
- 3.248
- 3.245
- 2.032
- 1.834
- 1.824
- 1.702
- 1.587
- 1.533
- 1.525
- 1.022
- 1.012
- 1.007
- 0.997
- 0.921
- 0.920
- 0.909
- 0.908
- 0.098
- 0.095
- 0.083
- 0.079



```

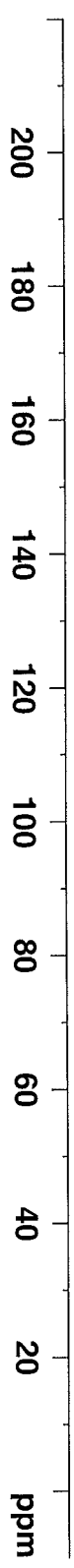
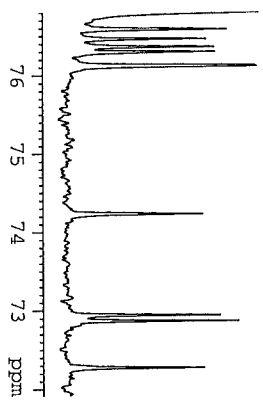
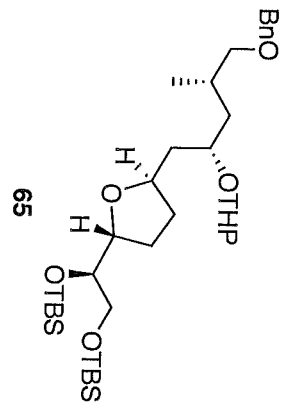
NAME          STM-XVI-92-THP Protecti
EXPNO         1
PROCNO        1
Date_         20121116
Time          23:36
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            101
RG            101
DE            42.000 usec
TE            298.4 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            13.75 usec
PL1           -3.00 dB
PL1W          32.08600616 W
SFO1          700.1516910 MHz
ST            131072
SF            700.1471400 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

THP Acetal

SUM-XVI-92-THP Protecti

- 138.97
- 138.81
- 128.30
- 128.26
- 127.56
- 127.55
- 127.40
- 127.33
- 99.32
- 97.06
- 78.66
- 78.61
- 77.20
- 77.02
- 76.84
- 76.59
- 76.46
- 76.36
- 76.30
- 76.12
- 74.23
- 72.94
- 72.87
- 72.27
- 65.24
- 65.16
- 63.19
- 63.00
- 42.05
- 40.70
- 39.19
- 38.39
- 33.23
- 32.83
- 31.39
- 31.35
- 30.06
- 29.90
- 27.42
- 27.38
- 26.04
- 25.96
- 25.56
- 25.52
- 20.31
- 20.20
- 18.43



```

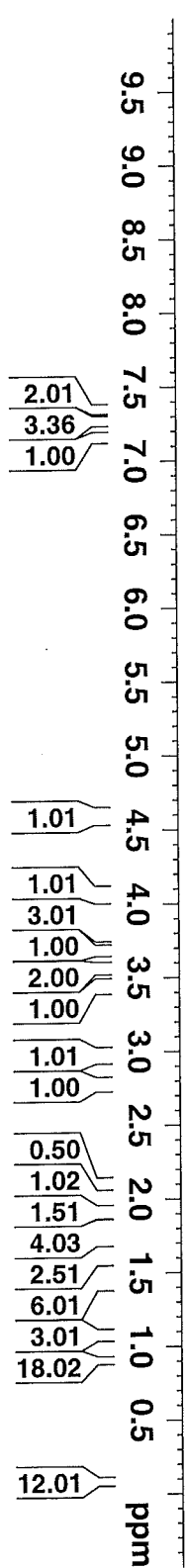
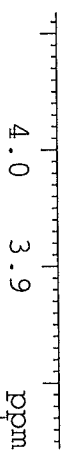
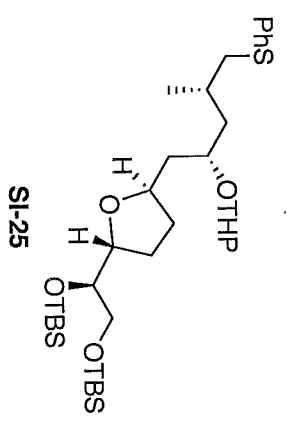
NAME
EXPNO 2
PROCNO 1
Date_ 20121116
Time 23.50
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1039
DS 4
SWH 41666.668 Hz
FIDRES 0.635783 Hz
AQ 0.7864820 sec
RG 203
DW 12.000 usec
DE 16.50 usec
TE 298.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.30 usec
PL1 2.00 dB
PL1W 67.83342743 W
SFO1 176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
P2 3.00 dB
PL12 12.30 dB
PL13 12.30 dB
PL1W 32.08600616 W
PL2W 0.94692516 W
PL13W 0.94692516 W
SFO2 700.1499406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```

Sulfide

- 7.370
- 7.356
- 7.352
- 7.338
- 7.294
- 7.289
- 7.282
- 7.276
- 7.271
- 7.255
- 7.251
- 7.173
- 7.166
- 7.155
- 4.632
- 4.082
- 4.073
- 3.694
- 3.685
- 3.666
- 3.581
- 3.566
- 3.559
- 2.976
- 2.930
- 2.818
- 2.799
- 2.788
- 2.768
- 2.006
- 1.985
- 1.927
- 1.915
- 1.798
- 1.779
- 1.771
- 1.488
- 1.476
- 1.464
- 1.097
- 1.080
- 1.062
- 0.911
- 0.093
- 0.075
- 0.071



2.01
3.36
1.00

1.01

1.01
3.01
1.00
2.00
1.00

0.50
1.02
1.51

4.03
2.51
6.01
3.01
18.02

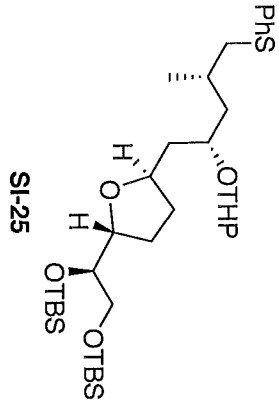
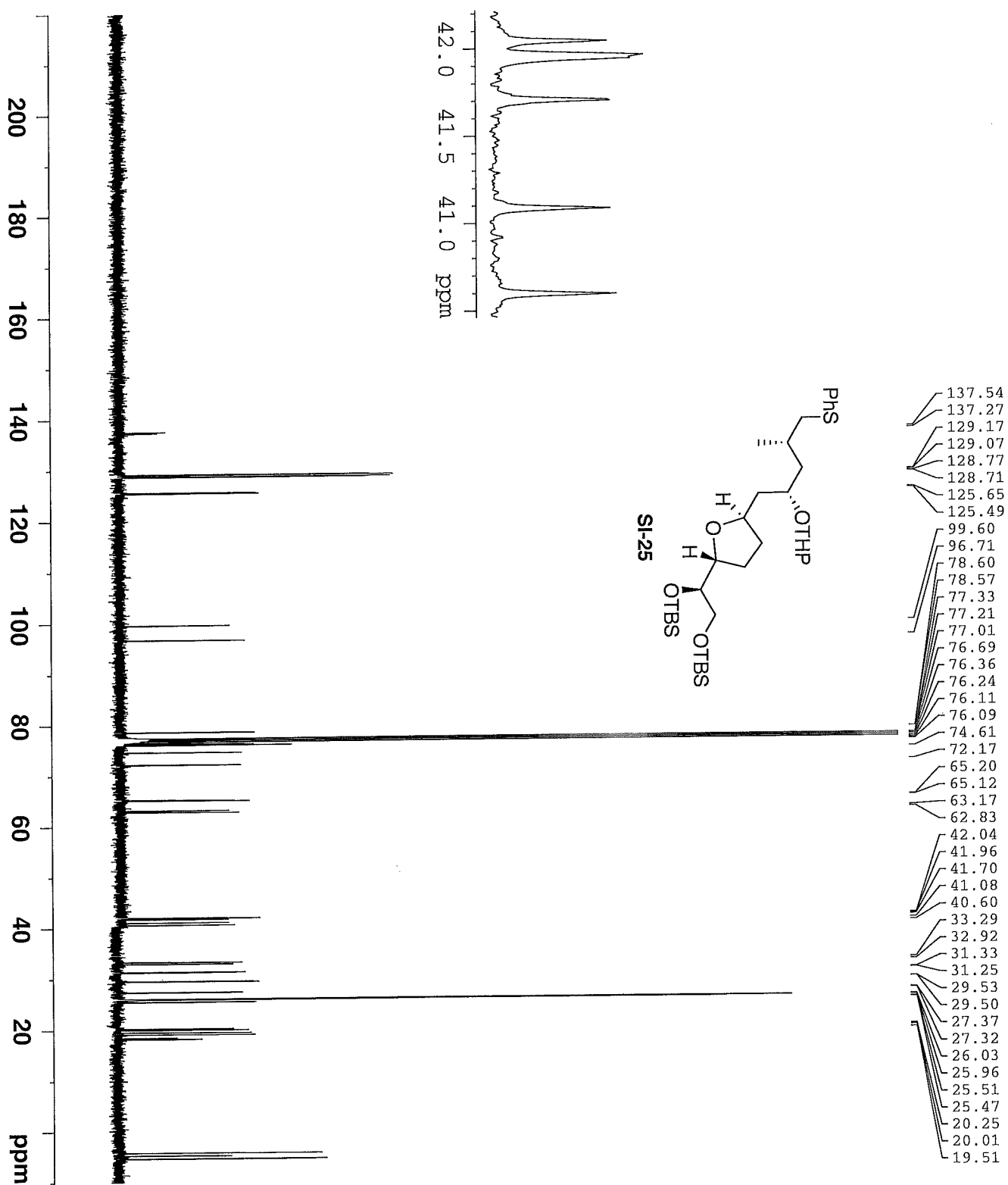
12.01

```

NAME          SUM-XII-07-R-Sulfide
EXPNO         1
PROCNO        1
Date_         20110707
Time         1.20
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENT       CDCl3
NS            32
DS            2
SWH           6793.478 Hz
FIDRES       0.207320 Hz
AQ           2.411749 sec
RG           128
DE           73.600 usec
TE           298.2 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           14.00 usec
PL1          0.00 dB
SFO1         400.1424008 MHz
SI           32768
SF           400.1400000 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Sulfide



137.54
137.27
129.17
129.07
128.77
128.71
125.65
125.49
99.60
96.71
78.60
78.57
77.33
77.21
77.01
76.69
76.36
76.24
76.11
76.09
74.61
72.17
65.20
65.12
63.17
62.83
42.04
41.96
41.70
41.08
40.60
33.29
32.92
31.33
31.25
29.53
29.50
27.37
27.32
26.03
25.96
25.51
25.47
20.25
20.01
19.51

```

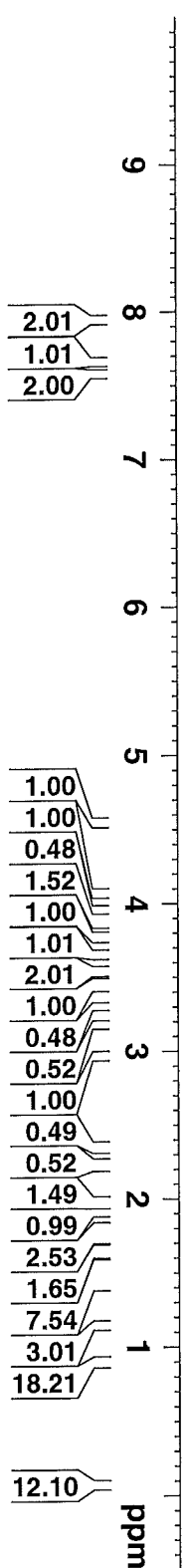
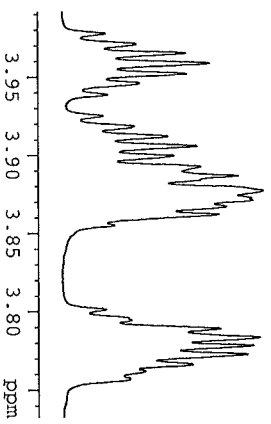
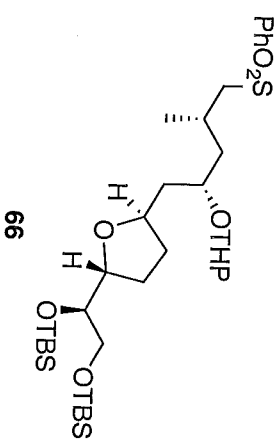
NAME          SUM-XII-07-R-Sulfidic
EXPNO         3
PROCNO        1
Date_         20110707
Time          1.52
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            12000
DS            4
SWH           23980.814 Hz
FIDRES        0.365918 Hz
AQ            1.3664756 sec
RG            16384
DW            20.850 usec
DE            6.50 usec
TE            299.6 K
D1            0.20000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           -2.00 dB
SFO1         100.6258476 MHz

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         90.00 usec
PR2           0.00 dB
PL2           16.16 dB
PL13          17.00 dB
SFO2         400.1416006 MHz
SI            32768
SF           100.6152830 MHz
WDW           EM
SSB           0
LB            1.00 Hz
GB            0
PC            1.40
  
```


Su1 fone

- 7.955
- 7.944
- 7.943
- 7.933
- 7.668
- 7.660
- 7.658
- 7.597
- 7.589
- 7.586
- 7.577
- 7.290
- 4.079
- 4.074
- 4.069
- 3.659
- 3.654
- 3.558
- 3.549
- 3.546
- 2.978
- 2.966
- 2.958
- 1.967
- 1.663
- 1.551
- 1.515
- 1.514
- 1.511
- 1.504
- 1.502
- 1.495
- 1.484
- 1.435
- 1.430
- 1.156
- 1.147
- 1.138
- 0.910
- 0.908
- 0.898
- 0.896
- 0.085
- 0.081
- 0.071
- 0.068



2.01
1.01
2.00

1.00
1.00
0.48
1.52
1.00
1.01
2.01
1.00
0.48
0.52
1.00
0.49
0.52
1.49
0.99
2.53
1.65
7.54
3.01
18.21

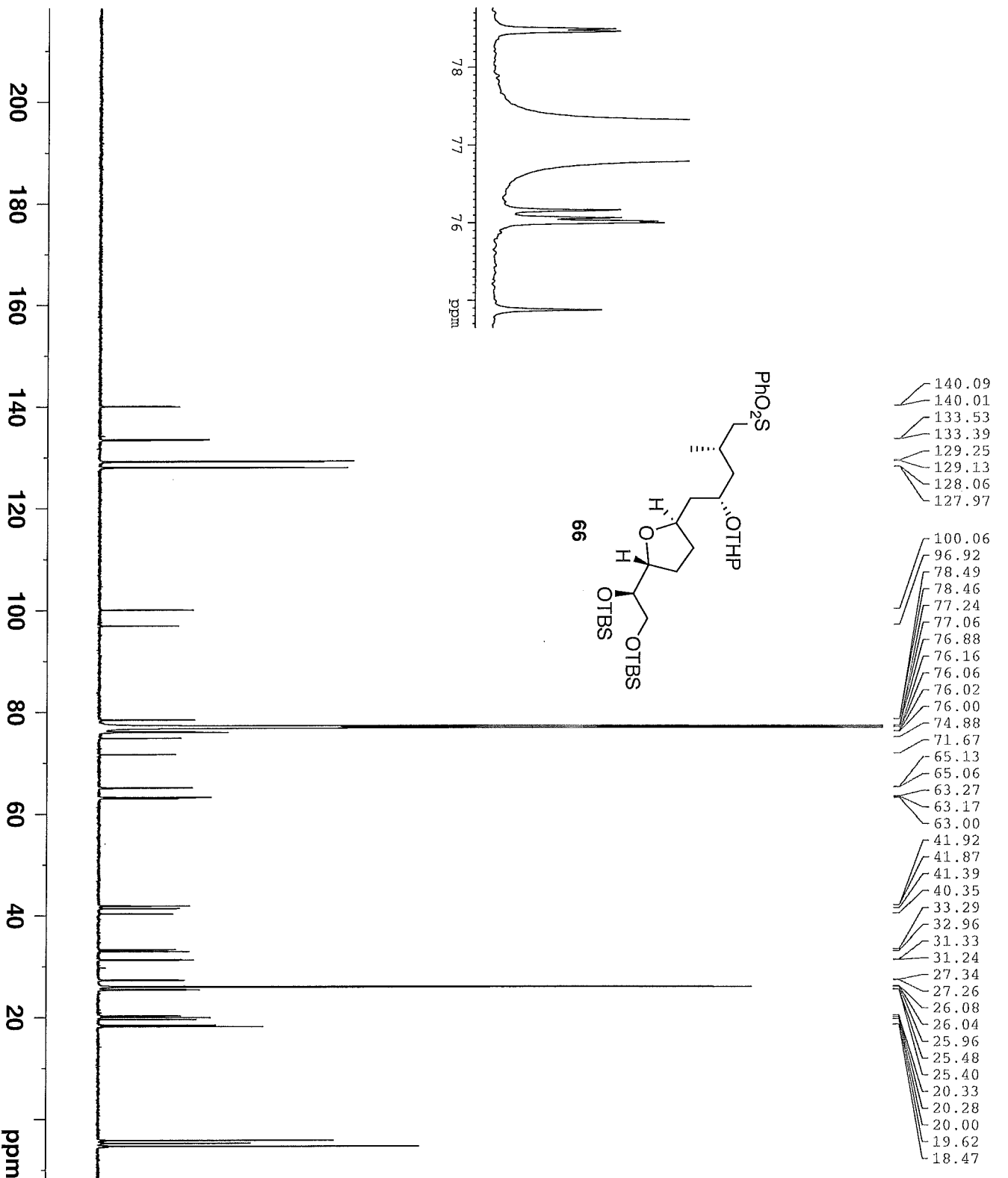
12.10

SUM-XVIII-22-Su1fo:

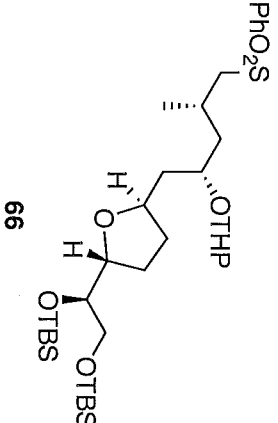
NAME	EXPNO	PROCNO	Date_	Time	INSTRUM	PROBHD	PULPROG	TD	SOLVENT	NS	DS	SWH	FIDRES	AQ	RG	DW	DE	TE	D1	TDD0
	1	1	20121127	12:00	5 mm spect	CPDCH 13C	zg30	95236	CDCl3	32	2	11904.762 Hz	0.125003 Hz	3.9999621 sec	22.6	42.000 usec	6.50 usec	298.3 K	2.00000000 sec	1

===== CHANNEL F1 =====	
NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PLAW	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	no
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

Sulfone



- 140.09
- 140.01
- 133.53
- 133.39
- 129.25
- 129.13
- 128.06
- 127.97
- 100.06
- 96.92
- 78.49
- 78.46
- 77.24
- 77.06
- 76.88
- 76.16
- 76.06
- 76.02
- 76.00
- 74.88
- 71.67
- 65.13
- 65.06
- 63.27
- 63.17
- 63.00
- 41.92
- 41.87
- 41.39
- 40.35
- 33.29
- 32.96
- 31.33
- 31.24
- 27.34
- 27.26
- 26.08
- 26.04
- 25.96
- 25.48
- 25.40
- 20.33
- 20.28
- 20.00
- 19.62
- 18.47



```

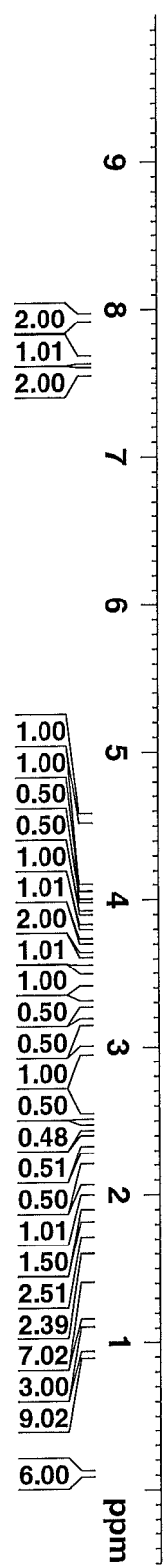
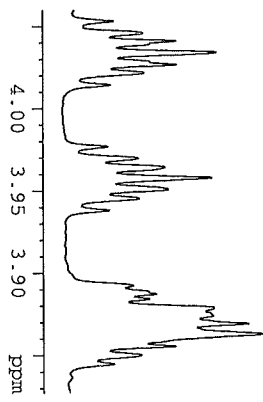
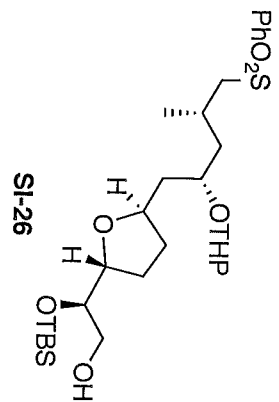
NAME SUM-XVIII-22-Sulfone
EXPNO 2
PROCNO 1
Date_ 20121127
Time 12.09
INSTRUM spect
PROBHD PULPROG 5 mm CPDCH 13C
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 1024
DS 4
SWE 41666.668 Hz
FIDRES 0.635783 Hz
AQ 0.7864820 sec
RG 203
DE 12.000 use
TE 16.50 use
D1 298.2 K
D11 2.00000000 sec
TD0 0.03000000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 9.00 use
PL1 4.50 dB
PL1W 38.14553833 W
SFO1 176.0697436 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 65.00 use
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL1W 33.59817505 W
PL12W 0.70196527 W
PL13W 0.00000000 W
SFO2 700.1499406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```

Alcohol

- 7.952
- 7.942
- 7.932
- 7.666
- 7.657
- 7.655
- 7.584
- 7.583
- 7.575
- 7.288
- 4.568
- 4.539
- 4.089
- 4.084
- 4.079
- 3.686
- 3.681
- 3.675
- 3.598
- 3.288
- 3.281
- 3.167
- 3.160
- 2.992
- 2.989
- 2.977
- 2.533
- 2.458
- 1.980
- 1.760
- 1.754
- 1.743
- 1.526
- 1.521
- 1.516
- 1.470
- 1.458
- 1.145
- 1.136
- 1.132
- 1.123
- 0.922
- 0.118
- 0.116
- 0.115
- 0.111



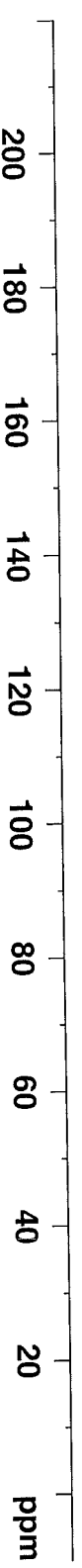
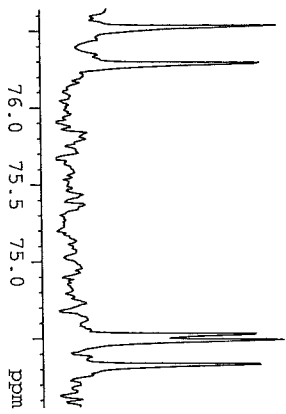
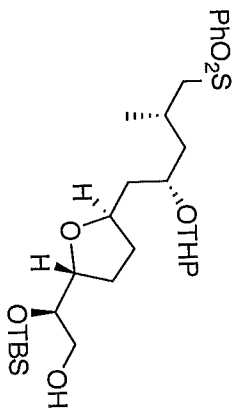
NAME SUM-XVIII-40-Alcoh.
 EXPNO 1
 PROCNO 2
 Date_ 20121223
 Time 16.23
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 95236
 SOLVENT CDCl3
 NS 32
 DS 2
 SWE 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 203
 DW 42.000 usec
 DE 6.50 usec
 TE 298.5 K
 D1 2.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 13.75 usec
 PL1 -3.00 dB
 PL1W 32.08600616 W
 SFO1 700.1516910 MHz
 SI 131072
 SF 700.1471400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Alcohol

SUM-VIII-40-Alcoh.

- 140.24
- 140.15
- 133.49
- 133.36
- 129.23
- 129.12
- 128.02
- 127.95
- 100.00
- 96.83
- 80.39
- 80.32
- 77.20
- 77.01
- 76.83
- 76.51
- 76.27
- 74.51
- 74.47
- 74.31
- 71.38
- 64.67
- 64.57
- 63.29
- 63.23
- 63.09
- 62.96
- 41.97
- 41.90
- 41.51
- 40.28
- 32.91
- 32.55
- 31.28
- 31.23
- 27.59
- 27.47
- 26.05
- 25.89
- 25.44
- 25.38
- 20.26
- 20.23
- 20.12
- 19.73



```

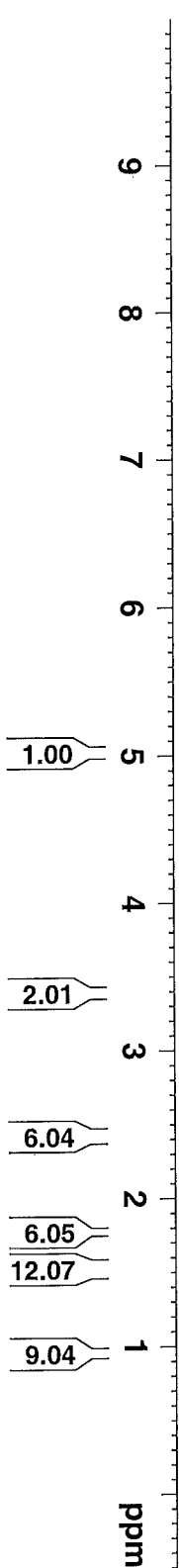
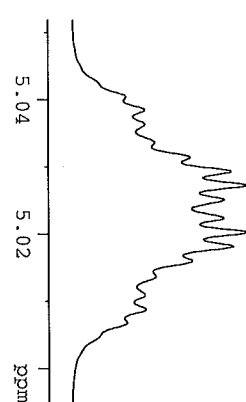
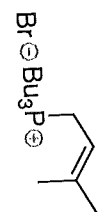
NAME          SUM-VIII-40-Alcoh.
EXPNO         3
PROCNO        1
Date_         20121223
Time_         16.38
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            676
DS            4
SWH           41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DE           12.000 use
TE           299.8 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          13C
P1           9.30 use
PL1          2.00 dB
PL1W         67.83342743 W
SFO1         176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        80.00 use
PL2          -3.00 dB
PL12         12.30 dB
PL13         12.30 dB
PL2W         32.08600616 W
PL12W        0.94692516 W
PL13W        0.94692516 W
SFO2         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```

Phosphonium Bromide

- 7.292
- 5.040
- 5.038
- 5.036
- 5.033
- 5.031
- 5.029
- 5.027
- 5.025
- 5.022
- 5.020
- 5.018
- 5.016
- 5.013
- 5.011
- 5.009
- 5.007
- 3.410
- 3.399
- 3.389
- 3.377
- 2.442
- 2.432
- 2.428
- 2.424
- 2.419
- 2.413
- 2.400
- 1.784
- 1.778
- 1.773
- 1.535
- 1.525
- 1.520
- 1.517
- 1.507



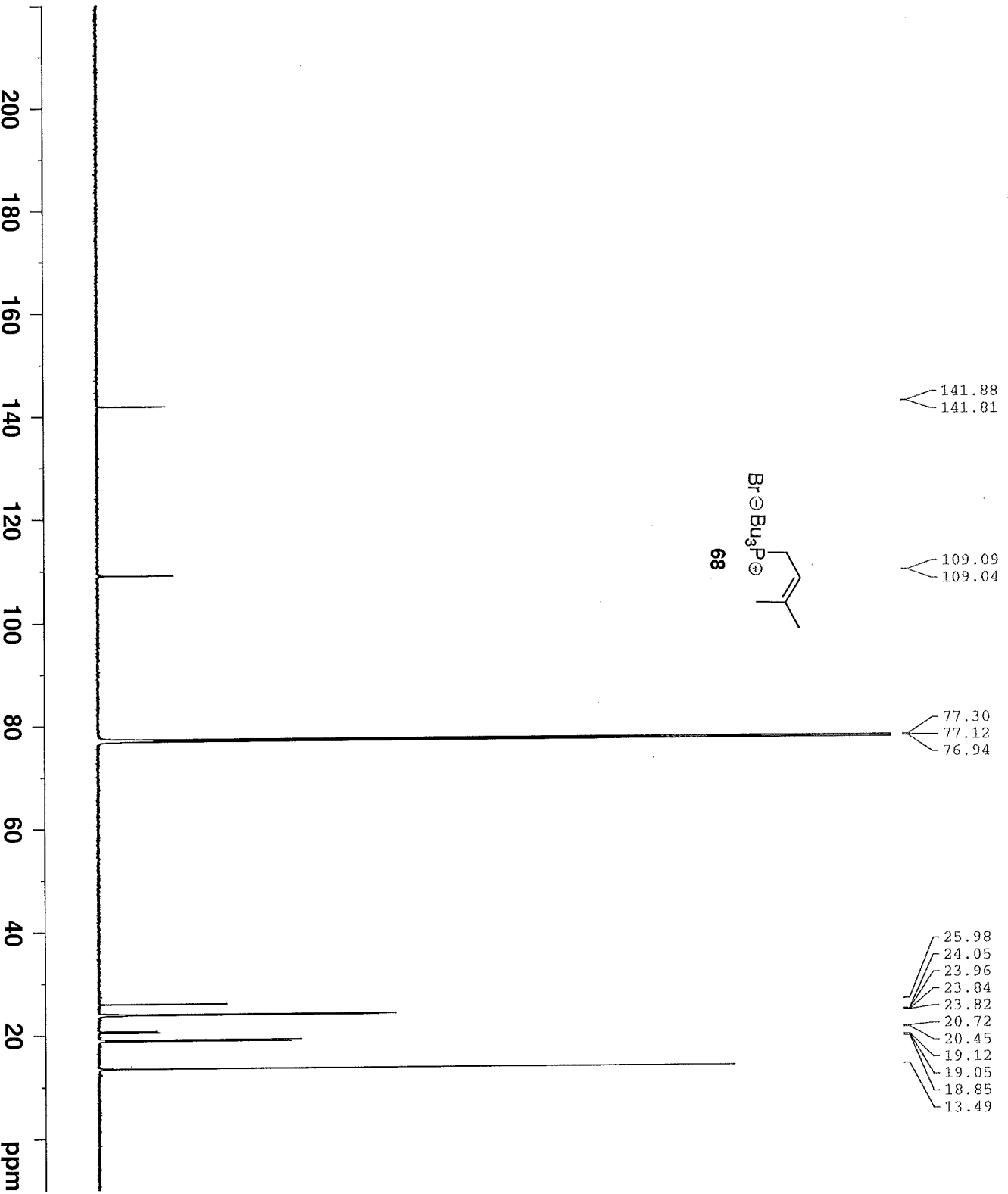
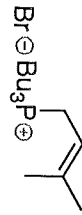
STW-IX-72-Phosphonium Bromi

NAME	EXPNO	PROCNO	DATE_	TIME	INSTRUM	PROBHD	PULPROG	TD	SOLVENT	NS	DS	SWH	FIDRES	AQ	RG	DM	DE	TE	D1	TD0
	1	1	20130127	19.56	gpcpc	5 mm CPDCH 13C	zg30	95236	CDCl3	32	2	11904.762 Hz	0.125003 Hz	3.9999621 sec	18	42.000 usec	6.50 usec	298.2 K	2.00000000 sec	1

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

NUC1	IH
P1	9.40 usec
P1L	-3.20 dB
P1LW	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Phosphonium Bromide



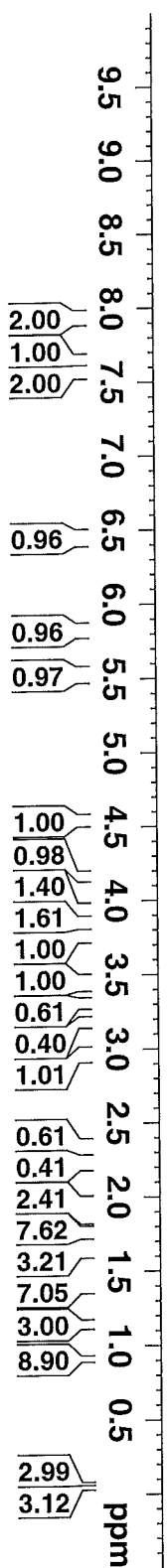
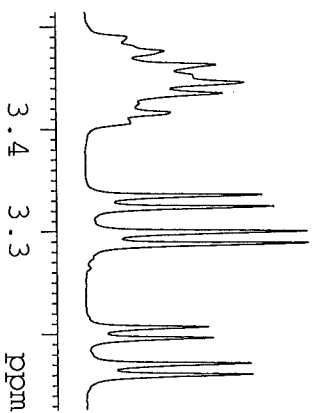
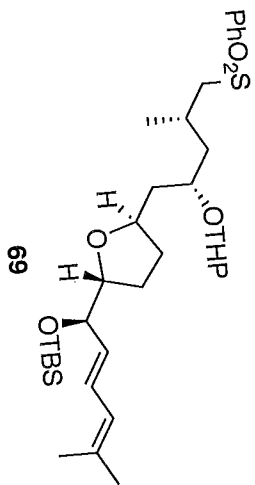
NAME	SUM-IX-72-Phosphonium Brom
EXPNO	2
PROCNO	1
Date_	20130127
Time	20.07
INSTRUM	spsec
PROBHD	5 mm CPDCH 13C
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	320
DS	4
SWH	4166.668 Hz
FIDRES	0.635783 Hz
AQ	0.7864820 sec
RG	203
TDW	12.000 usec
DE	16.50 usec
TE	298.1 K
D1	2.0000000 sec
D11	0.0300000 sec
TD0	1

===== CHANNEL f1 =====	
NUC1	13C
P1	9.00 usec
PL1	4.50 dB
PL1W	38.1453833 W
SFO1	176.0706238 MHz

===== CHANNEL f2 =====	
CPDPRG2	waltz16
NUC2	1H
PCPD2	65.00 usec
PL2	-3.20 dB
PL12	13.60 dB
PL13	120.00 dB
PL1W	33.59817505 W
PL12W	0.70196527 W
PL13W	0.0000000 W
SFO2	700.1499406 MHz
SI	32768
SF	176.0521380 MHz
NUW	EM
SSB	0
LB	3.00 Hz
GB	0
PC	1.40

Diene

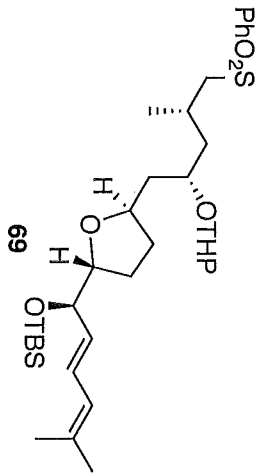
- 7.965
- 7.962
- 7.958
- 7.944
- 7.941
- 7.922
- 7.919
- 7.658
- 7.650
- 7.631
- 7.593
- 7.585
- 7.582
- 7.577
- 7.574
- 7.569
- 7.566
- 7.548
- 7.282
- 5.847
- 4.552
- 4.545
- 4.166
- 3.940
- 3.923
- 2.979
- 2.964
- 1.786
- 1.765
- 1.723
- 1.716
- 1.703
- 1.523
- 1.516
- 1.505
- 1.500
- 1.488
- 1.480
- 1.472
- 1.158
- 1.145
- 1.141
- 1.128
- 0.912
- 0.070
- 0.049



NAME	SUM-XII-44-R-Dien
EXPNO	1
PROCNO	1
Date_	20110720
Time	23.04
INSTRUM	robinson
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	32768
SOLVENT	CDCl3
NS	32
DS	2
SWH	6793.478 Hz
FIDRES	0.207320 Hz
AQ	2.4117749 sec
RG	64
DW	73.600 usec
DE	6.50 usec
TE	298.2 K
D1	2.00000000 sec
TD0	1
===== CHANNEL f1 =====	
NUC1	1H
P1	14.00 usec
PL1	0.00 dB
SFO1	400.1424008 MHz
SI	32768
SF	400.1400000 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Diene

140.23
140.13
134.99
134.89
133.47
133.33
130.05
129.94
129.21
129.10
128.02
127.94
127.44
127.36
124.73
124.71
99.78
97.05
82.03
81.96
77.33
77.01
76.70
76.14
76.03
75.60
74.56
71.71
63.29
63.23
63.12
62.96
42.05
41.82
41.45
40.40
32.95
32.60
31.31
31.23
27.17
27.06
26.12
25.97
25.89
25.46
25.40
20.31
20.23
20.08
19.71



```

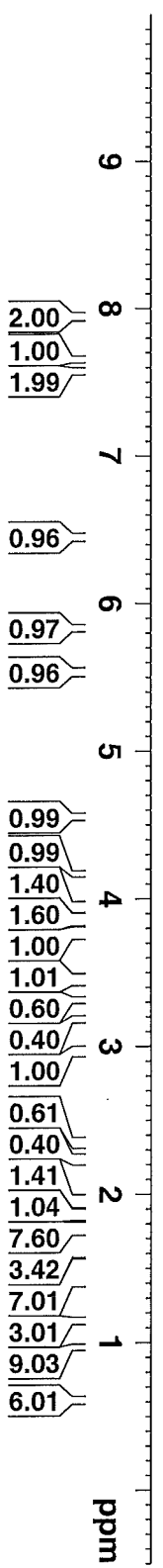
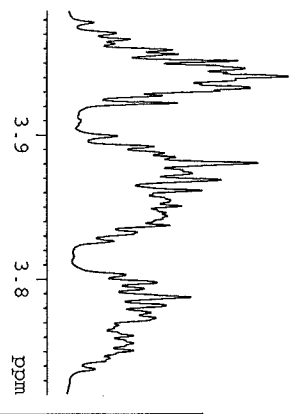
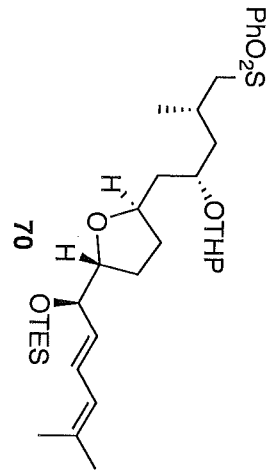
NAME SUM-XII-44-R-Diene
EXPNO 2
PROCNO 1
Date_ 20110720
Time 23.13
INSTRUM robinson
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 4431
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 16384
DM 20.850 use
DE 6.50 use
TE 299.0 K
D1 0.20000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL F1 =====
NUC1 13C
P1 9.00 use
PL1 -2.00 dB
SFO1 100.6258476 MHz

===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 use
PL2 0.00 dB
PL12 16.16 dB
PL13 17.00 dB
SFO2 400.1416006 MHz
SI 32768
SF 100.6152830 MHz
WDM EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
  
```


Dieryl Sulfone

7.964
7.954
7.952
7.664
7.655
7.653
7.585
7.583
7.582
7.574
7.288
5.844
5.828
4.558
4.554
4.169
3.940
3.309
3.302
2.993
2.981
2.972
2.960
1.795
1.776
1.663
1.656
1.526
1.519
1.515
1.508
1.464
1.456
1.452
1.444
1.160
1.150
1.147
1.137
0.979
0.968
0.957
0.630
0.619
0.608
0.597



SUM-XVIIII-45-Dieryl Sulf

NAME SUM-XVIIII-45-Dieryl Sulf

EXPNO 1

PROCNO 1

Date_ 20121229

Time 2.21

INSTRUM spect

PROBHD 5 mm PABBO BB-

PULPROG zg30

TD 95236

SOLVENT CDCl3

NS 32

DS 2

SWH 11904.763 Hz

FIDRES 0.125003 Hz

AQ 3.9999621 sec

RG 203

DM 42.000 usec

DE 6.50 usec

TE 298.4 K

D1 2.00000000 sec

TD0 1

==== CHANNEL F1 =====

NUC1 1H

P1 13.75 usec

P11 -3.00 dB

P1W 32.08600615 W

SFO1 700.1516910 MHz

SI 131072

SF 700.1471400 MHz

WDW EM

SSB 0

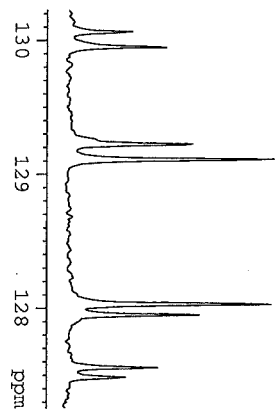
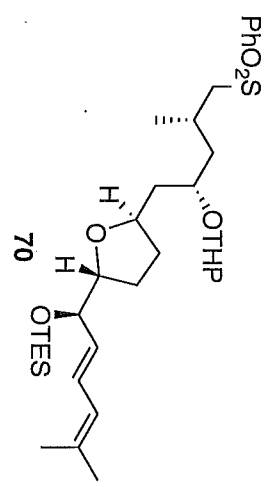
LB 0.30 Hz

GB 0

PC 1.00

Dienyl Sulfone

- 140.26
- 140.16
- 135.09
- 134.99
- 133.47
- 133.33
- 130.06
- 129.95
- 129.22
- 129.11
- 128.03
- 127.95
- 127.55
- 127.48
- 124.74
- 124.71
- 99.71
- 97.13
- 82.04
- 81.99
- 77.20
- 77.02
- 76.84
- 76.14
- 76.04
- 75.60
- 75.56
- 74.50
- 71.77
- 63.30
- 63.23
- 63.12
- 62.96
- 42.10
- 41.81
- 41.47
- 40.44
- 32.93
- 32.57
- 31.32
- 31.24
- 27.28
- 27.18
- 26.13
- 25.98
- 25.47
- 25.41
- 20.32
- 20.24
- 20.07
- 19.69
- 18.28



```

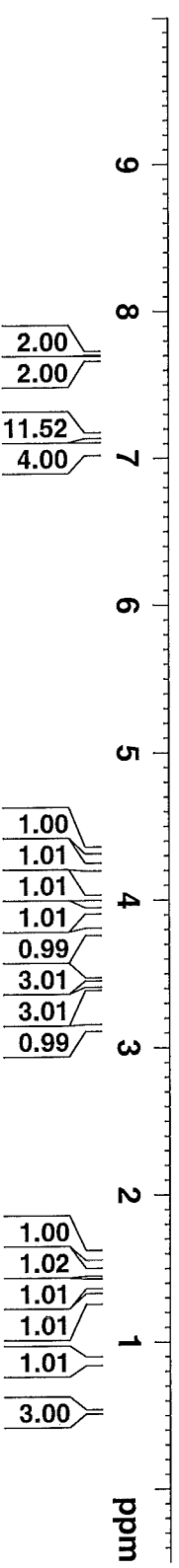
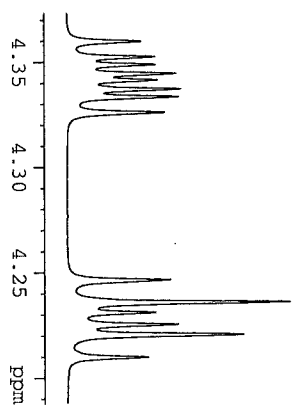
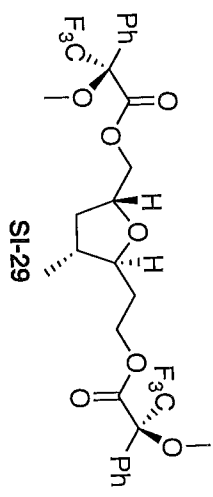
NAME SUM-XVII-45-Dienyl Sulf
EXRNO 2
PROCNO 1
Date_ 20121229
Time 2.46
INSTRUM spect
PROBHD zgpg30
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 4024
DS 4
SWH 41666.668 Hz
FIDRFS 0.635783 Hz
AQ 0.7864820 sec
RG 203
DW 12.000 usec
DE 16.50 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL F1 =====
NUC1 13C
P1 9.30 usec
PL1 2.00 dB
PL1W 67.83342743 W
SFO1 176.0706238 MHz

===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -3.00 dB
PL12 12.30 dB
PL13 12.30 dB
PL1W 32.08600616 W
PL2W 0.94692516 W
PL13W 0.94692516 W
SFO2 700.1489406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 0
GB 0
PC 1.40
  
```

Bis Mosher Ester

- 7.723
- 7.712
- 7.689
- 7.678
- 7.168
- 7.166
- 7.158
- 7.148
- 7.146
- 7.104
- 7.103
- 7.093
- 7.091
- 7.083
- 7.081
- 7.072
- 7.061
- 7.050
- 7.048
- 7.046
- 7.037
- 4.337
- 4.236
- 4.225
- 4.220
- 4.030
- 4.025
- 4.014
- 4.009
- 3.941
- 3.933
- 3.925
- 3.917
- 3.790
- 3.466
- 3.466
- 3.402
- 3.401
- 3.142
- 3.138
- 1.487
- 1.469
- 0.880
- 0.865
- 0.531
- 0.522

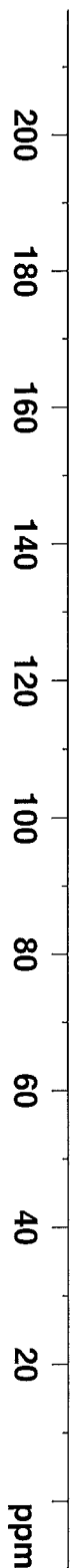
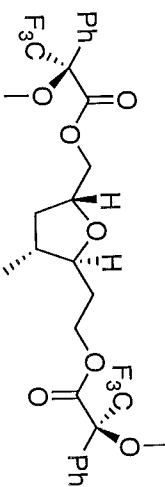


NAME SUD-IX-22-bis Mosher Est
 EXPNO 1
 PROCNO 1
 Date_ 20100916
 Time 0.15
 INSTRUM spect
 PROBRD 5 mm CPDCH 13C
 PULPROG zg30
 TD 65536
 SOLVENT C6D6
 NS 32
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.181652 Hz
 AQ 2.7525620 sec
 RG 45.2
 DW 42.000 usec
 DE 16.50 usec
 TE 298.1 K
 D1 2.0000000 sec
 TD0 1

==== CHANNEL f1 =====
 NTCL 1H
 P1 9.40 usec
 PL -3.20 dB
 PL1W 33.59817505 W
 SPOL 700.124508 MHz
 SI 65536
 SF 700.1200000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Bis Mosher Ester

- 166.28
- 166.24
- 132.73
- 132.60
- 129.50
- 129.39
- 127.99
- 127.94
- 127.83
- 127.70
- 127.56
- 126.39
- 124.76
- 123.12
- 121.48
- 85.16
- 85.06
- 85.00
- 84.91
- 84.84
- 84.75
- 84.68
- 84.59
- 81.43
- 74.77
- 67.33
- 63.75
- 54.99
- 54.96
- 39.65
- 36.48
- 32.55
- 15.24



```

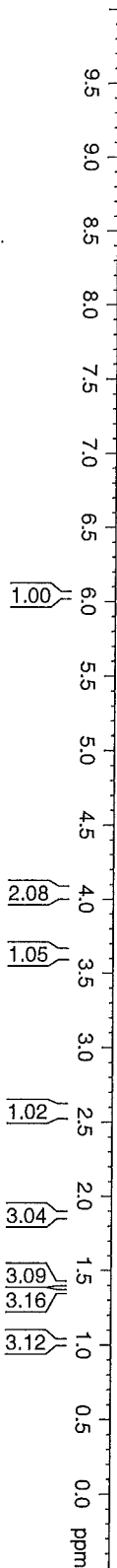
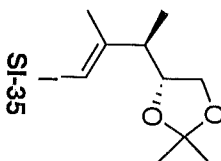
NAME          SUK-IX-22-bis Mosher Est
EXPNO         3
PROCNO        2
Date_         20100916
Time          0.52
INSTRUM       5 mm CPDCH 13C
PROBHD        zgpg30
PULPROG       zgpg30
TD            98304
SOLVENT       CDCl3
NS            686
DS            4
SWH           41666.668 Hz
FIDRES        0.423855 Hz
AQ            1.1796980 sec
RG            203
DE            12.000 usec
TE            15.00 usec
D1            2.00000000 sec
D11           0.030000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0629186 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2           -3.20 dB
PL12         13.50 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2          700.1228005 MHz
SI            131072
SF            176.0453140 MHz
WDW           EM
SSB           0
LB            0
GB            0
PC            1.40
  
```

Acetonide

- 7.286
- 6.043
- 4.077
- 4.062
- 4.046
- 4.041
- 4.033
- 4.021
- 4.006
- 3.653
- 3.643
- 3.638
- 3.627
- 3.617
- 3.609
- 3.601
- 2.603
- 2.585
- 2.567
- 2.555
- 2.549
- 2.531
- 1.870
- 1.408
- 1.358
- 1.023
- 1.006



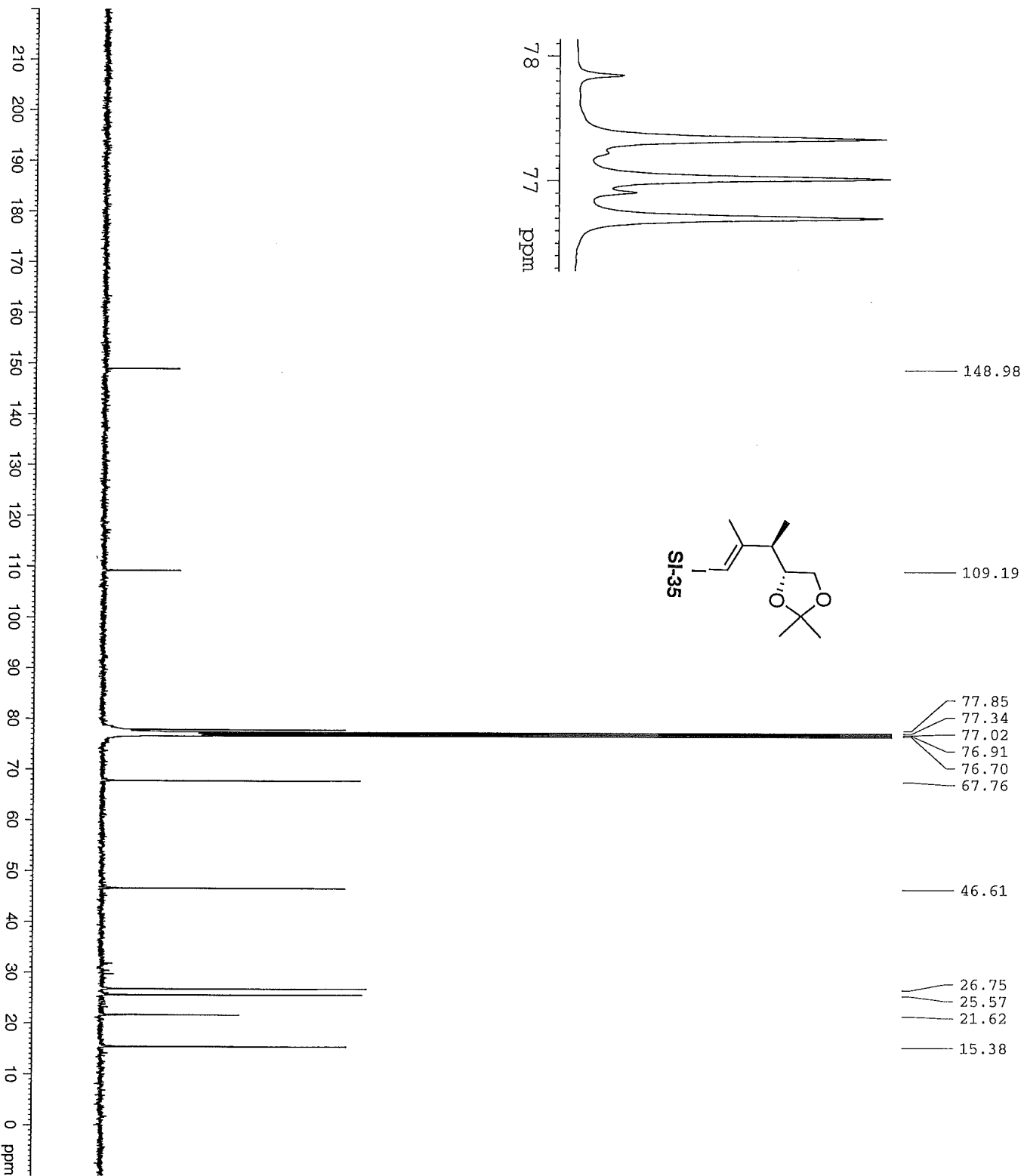
Current Data Parameters
 NAME STM-II-78-Acetonide
 EXNO 1
 PROCNO 1
 DT 1
 DT 1
 USER subham

F2 - Acquisition Parameters
 Date_ 20081124
 Time_ 22:21
 INSTRUM DX400
 PROBD 5 mm BBO B5-1H
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 6410.256 Hz
 FIDRES 0.195625 Hz
 AQ 2.5559540 sec
 RG 512
 DW 78.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 2.00000000 sec
 TDO 1

===== CHANNEL F1 =====
 NUCL1 1H
 P1 14.70 usec
 PL1 0.00 dB
 SFO1 399.9528000 MHz

F2 - Processing parameters
 SI 32768
 SF 399.9500000 MHz
 MDW EM
 SSB 0
 LB 0.70 Hz
 GB 0
 PC 1.00

Acetonide



- 148.98
- 109.19
- 77.85
- 77.34
- 77.02
- 76.91
- 76.70
- 67.76
- 46.61
- 26.75
- 25.57
- 21.62
- 15.38

Current Data Parameters
 NAME SUW-11-78-Acetonide
 EXPNO 1
 PROCNO 1
 DU /h
 USER subham

F2 - Acquisition Parameters
 Date_ 20081124
 Time 22.38
 INSTRUM DEK400
 PROBHD 5 mm BBO BB-1H
 PULPROG zgpg30
 TD 65536
 SOLVENT NS
 NS 23649
 DS 4
 SWH 25125.629 Hz
 FIDRES 0.38387 Hz
 AQ 1.3042164 sec
 RG 16384
 DW 19.900 usec
 DE 6.00 usec
 TE 298.2 K
 D1 0.1500001 sec
 d11 0.0300000 sec
 DELTA 0.0500000 sec
 TD0 1

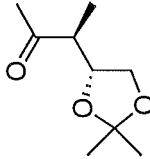
==== CHANNEL f1 =====
 NUC1 13C
 P1 7.80 usec
 PL1 -3.00 dB
 SFO1 100.5785700 MHz

==== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 135.00 usec
 PL2 17.40 dB
 PL12 17.40 dB
 PL13 17.40 dB
 SFO2 399.9516000 MHz

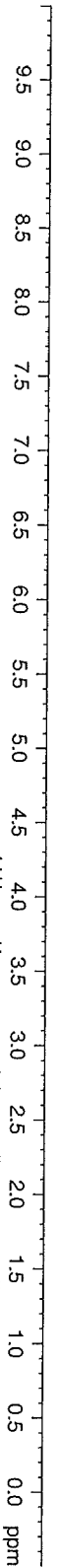
F2 - Processing parameters
 SI 32768
 SF 100.5675080 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Methyl ketone

- 7.285
- 4.244
- 4.228
- 4.223
- 4.211
- 4.207
- 4.191
- 4.108
- 4.092
- 4.087
- 4.072
- 3.676
- 3.659
- 3.656
- 3.639
- 2.800
- 2.782
- 2.764
- 2.744
- 2.726
- 2.238
- 1.427
- 1.349
- 1.062
- 1.044



SI-37



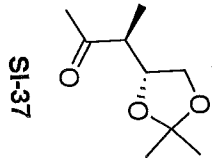
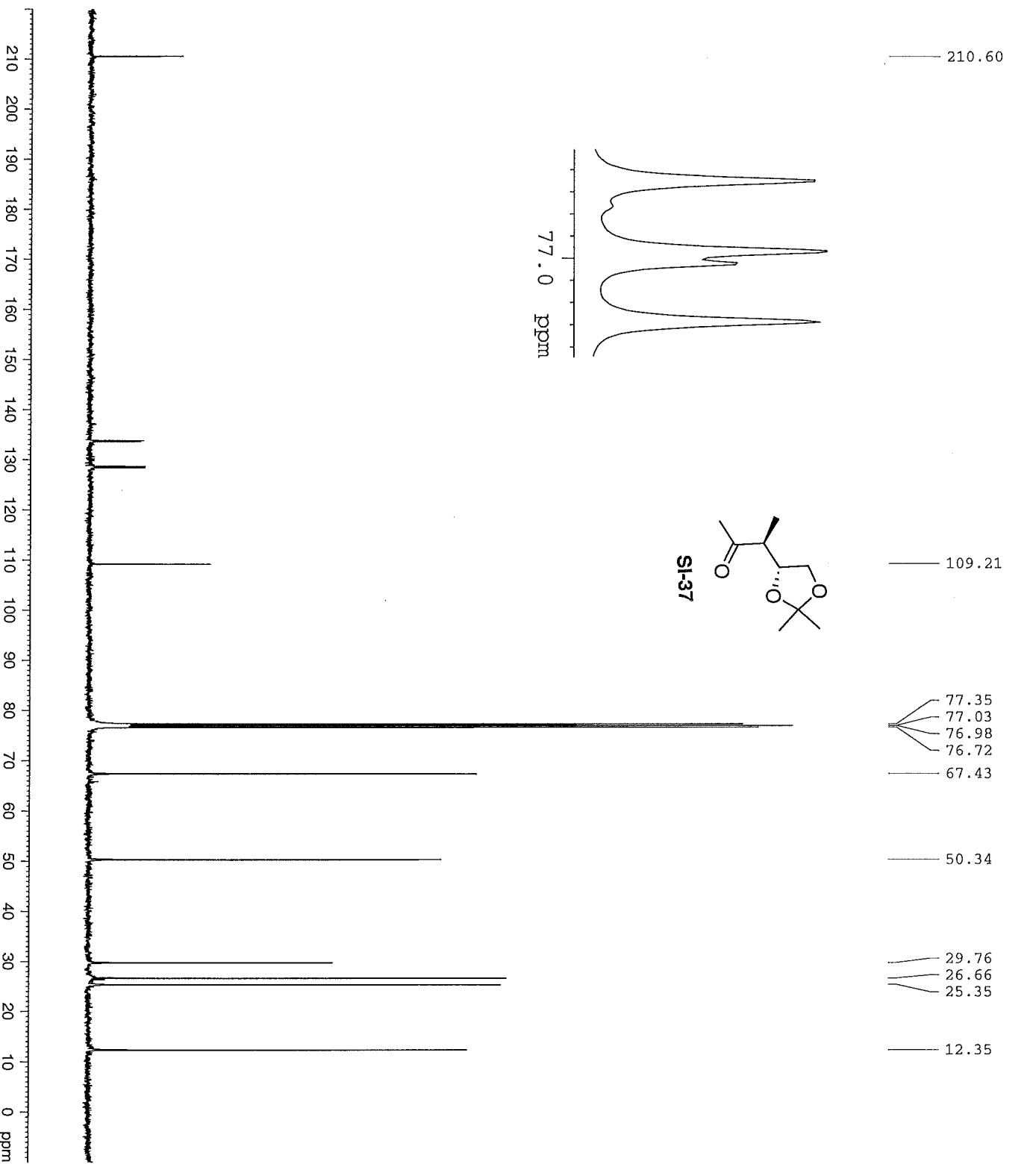
Current Data Parameters
 Name: SUN-II-87-Methyl ketone
 Exptno: 1
 Procno: 2
 ID: 1
 USR: subham /n

F2 - Acquisition Parameters
 Date: 20081207
 Time: 22.59
 INSTRUM: DPX400
 PROBD: 5 mm BBO BB-1H
 PULPROG: zg30
 TD: 32768
 SOLVENT: CDCl3
 NS: 32
 DS: 4
 SWH: 6410.256 Hz
 FIDRES: 0.19625 Hz
 AQ: 2.559540 sec
 RG: 203.2
 DW: 78.000 usec
 DE: 6.00 usec
 TE: 298.2 K
 DIL: 2.00000000 sec
 ID0: 1

***** CHANNEL f1 *****
 NUC1: 1H
 P1: 14.70 usec
 PL1: 0.90 dB
 SFO1: 399.9928000 MHz

F2 - Processing parameters
 SI: 32768
 SF: 399.9900000 MHz
 WDW: EM
 SSB: 0
 LB: 0.70 Hz
 GB: 0
 PC: 1.00

Methyl ketone



Current Data Parameters
 Name: SUW-II-87-Methyl ketone
 EXNO: 5
 ID: 1
 USER: subham

F2 - Acquisition Parameters
 Date_: 20081207
 Time: 23.19
 INSTRUM: DFX400
 PROBHD: 5 mm BBO BB-1H
 P1: 299930
 PD: 05938
 SOLVENT: NS
 DS: 4
 SWH: 25125.629 Hz
 FIDRES: 0.383387 Hz
 AQ: 1.3042164 sec
 RG: 16384
 DN: 19.900 usec
 DM: 29.0 usec
 ME: 0.1500001 sec
 DI: 0.03000000 sec
 DELTA: 0.05000000 sec
 TD0: 1

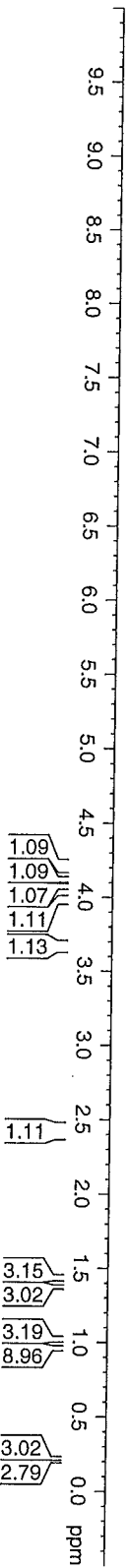
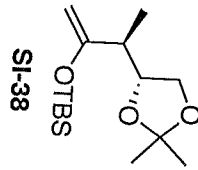
==== CHANNEL F1 =====
 NUCL: 13C
 P1: 7.80 usec
 SFO1: 100.5785700 MHz

==== CHANNEL F2 =====
 CPDPRG2: waltz16
 NUCL2: 1H
 RCYCD2: 135.00 usec
 PL2: 17.40 dB
 PL12: 17.40 dB
 PL13: 17.40 dB
 SFO2: 399.9516000 MHz

F2 - Processing parameters
 SI: 32768
 SF: 100.5675080 MHz
 MDW: EX
 SSB: 0
 LB: 3.00 Hz
 GB: 0
 PC: 1.40

TBS Enol Ether

- 7.286
- 4.238
- 4.220
- 4.204
- 4.186
- 4.116
- 4.114
- 4.074
- 3.996
- 3.980
- 3.976
- 3.960
- 3.686
- 3.667
- 3.647
- 2.454
- 2.436
- 2.419
- 2.401
- 2.384
- 1.434
- 1.369
- 1.025
- 1.007
- 0.957
- 0.215
- 0.199

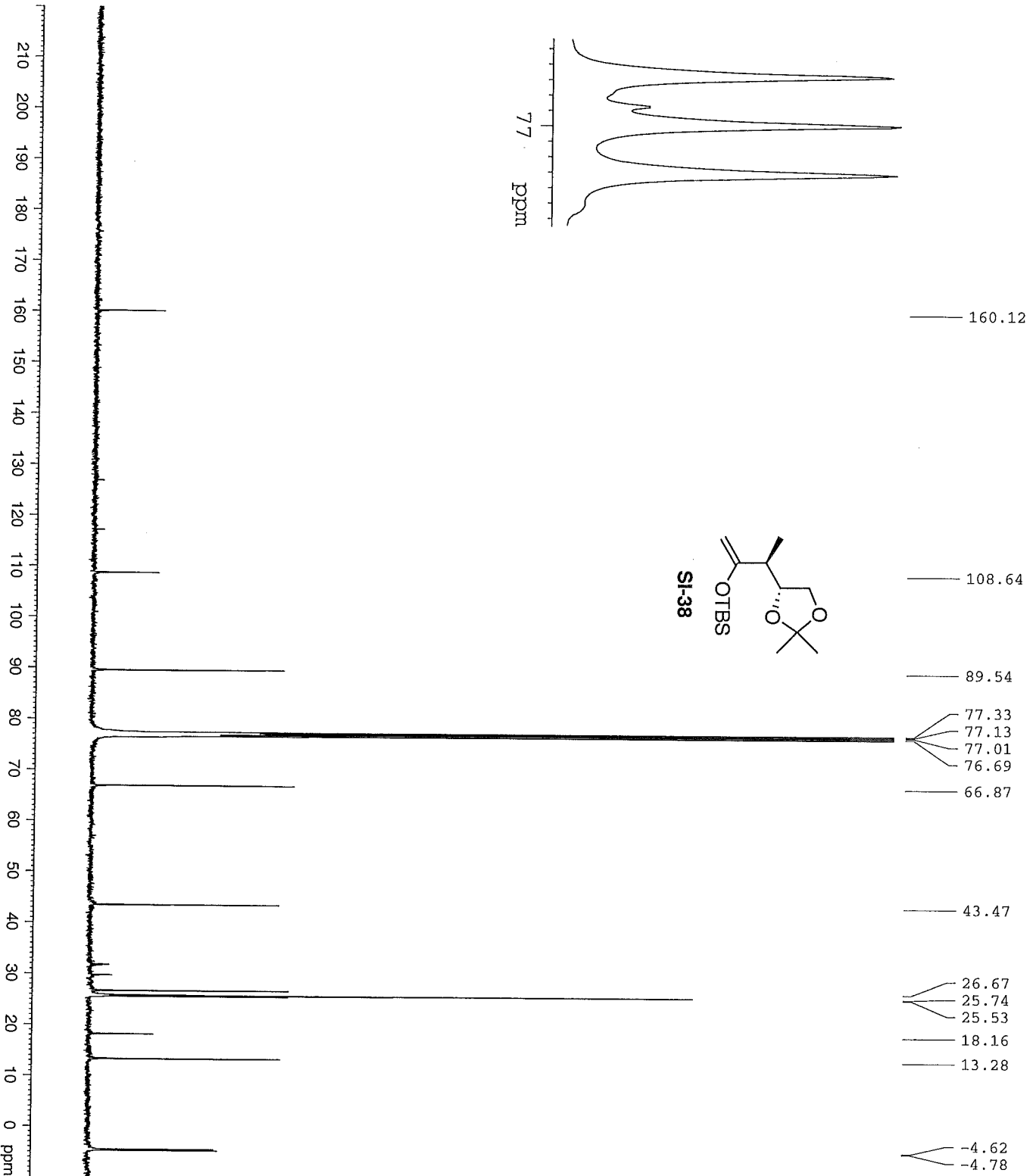
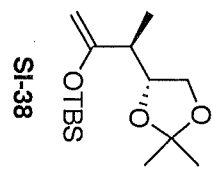
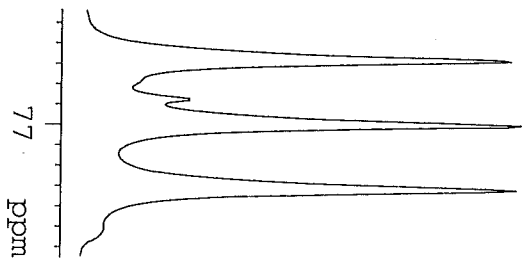


Current Data Parameters
 Name: SI-11-96-TBS enol ether
 EXPNO: 1
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_: 2009123
 Time: 11:23
 INSTRUM: DPX400
 PULPROG: zgpg30
 TD: 65536
 SOLVENT: CDCl3
 NS: 32
 DS: 4
 SWH: 6410.252 Hz
 FIDRES: 0.115625 Hz
 AQ: 2.5595940 sec
 RG: 512
 DW: 78.000 usec
 DE: 6.00 usec
 TE: 298.2 K
 TD0: 2.00000000 sec
 I: 1

===== CHANNEL f1 =====
 NUC1: 1H
 P1: 14.70 usec
 PL1: 0.00 dB
 SFO1: 399.9528000 MHz

F2 - Processing parameters
 SI: 32768
 SF: 399.9500000 MHz
 WDW: EM
 SSB: 0
 LB: 0.70 Hz
 GB: 0
 RC: 1.00

TBS Enol Ether



Current Data Parameters
 Name: SUM-11-96-TBS-enol ether
 PRONO: 1
 DU: 1
 USER: subham

F2 - Acquisition Parameters
 Date: 20090123
 Time: 22:20
 INSTRUM: spect
 PROBD: 5 mm BBO
 PULPROG: zgpg30
 TD: 65536
 SOLVENT: 38709
 NS: 4
 DS: 4
 SWH: 25125.629 Hz
 FIDRES: 0.325184 Hz
 AQ: 1.342184 sec
 RG: 16384
 DW: 19.900 usec
 DE: 6.00 usec
 TE: 298.2 K
 D1: 0.1500001 sec
 D11: 0.0300000 sec
 DELTA: 0.9300001 sec
 TDO: 1

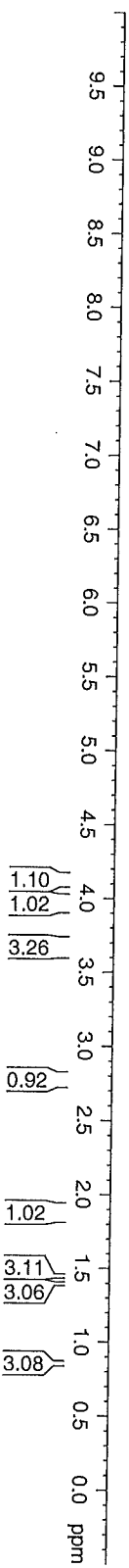
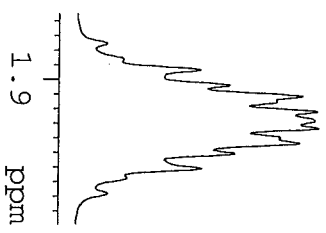
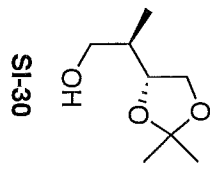
==== CHANNEL F1 =====
 NUC1: 13C
 P1: 7.80 usec
 PL1: 3.00 dB
 SFO1: 100.5785700 MHz

==== CHANNEL F2 =====
 CHDRG2: wait16
 NUC2: 1H
 PCP2: 135.00 usec
 PL2: 17.40 dB
 PL12: 17.40 dB
 SFO2: 399.9516000 MHz

F2 - Processing parameters
 SI: 32768
 SF: 100.5675080 MHz
 NDW: 0
 KZ: 0
 SSB: 0 Hz
 GB: 0
 PC: 1.40

Acetonide Alcohol

- 4.136
- 4.121
- 4.116
- 4.101
- 3.994
- 3.975
- 3.955
- 3.939
- 3.708
- 3.698
- 3.687
- 3.679
- 3.668
- 3.659
- 3.649
- 3.639
- 3.629
- 3.611
- 3.601
- 2.785
- 2.778
- 2.764
- 2.757
- 1.925
- 1.907
- 1.897
- 1.889
- 1.879
- 1.873
- 1.868
- 1.857
- 1.850
- 1.840
- 1.822
- 1.444
- 1.392
- 0.859
- 0.841

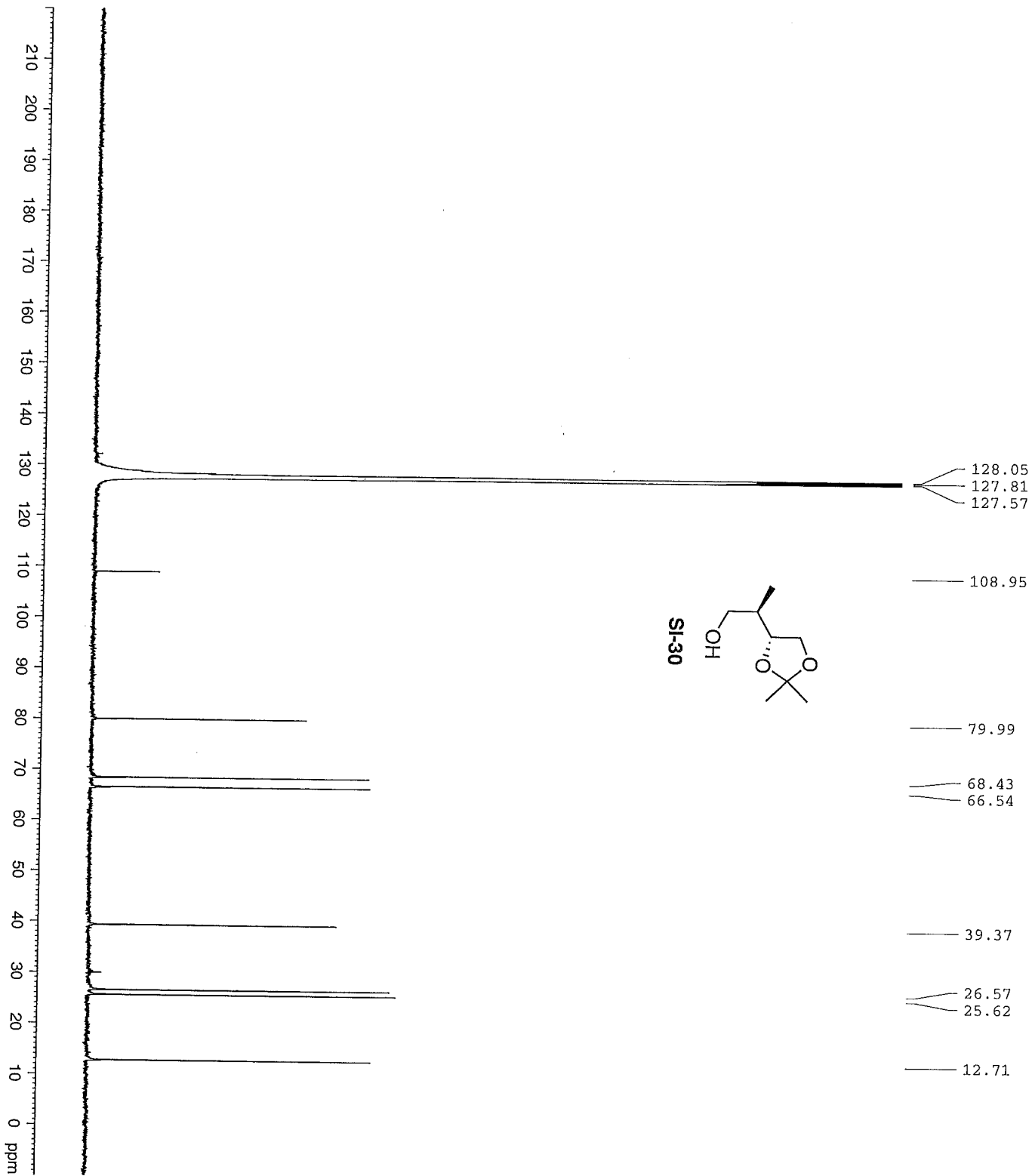


Current Data Parameters
 NAME SUM-III-14
 EXNO 3
 FPRONO 1
 DU /n
 USBR subnam

F2 - Acquisition Parameters
 Date_ 20090210
 Time 11.27
 INSTRUM DFX400
 PROBHD 5 mm BBI 1H-5B
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 2
 SMH 6410.256 Hz
 FIDRES 0.195625 Hz
 AQ 2.5559540 sec
 RG 71.8
 DW 78.000 usec
 DE 6.00 usec
 TE 298.2 K
 D1 2.0000000 sec
 TDO 1

==== CHANNEL f1 =====
 NUCL1 1H
 P1 14.70 usec
 P11 0.00 dB
 SFO1 399.9528000 MHz
 F2 - Processing parameters
 SI 32768
 SF 399.9500000 MHz
 WDW EM
 SSB 0
 LB 0.70 Hz
 GB 0
 PC 1.00

Acetonide Alcohol



Current Data Parameters
 NAME: SIW-III-14-Acetonide Alcohol
 EXPNO: 3
 DU: 1
 USER: subham
 F2 - Acquisition Parameters
 Date_: 20060116
 Time: 1:02
 INSTRUM: DPX400
 PROBRD: 5 mm BBO BB-1H
 PULPROG: zgpg30
 TD: 65536
 FIDRES: 0.1500000
 SOLVENT: CD3O
 NS: 21585
 DS: 4
 SWH: 25125.624 Hz
 FIDRES: 0.389387 Hz
 AQ: 1.3042164 sec
 DE: 10921.3
 TE: 298.2 K
 D1: 0.15000001 sec
 DELTA: 0.05000000 sec
 TDO: 1 sec

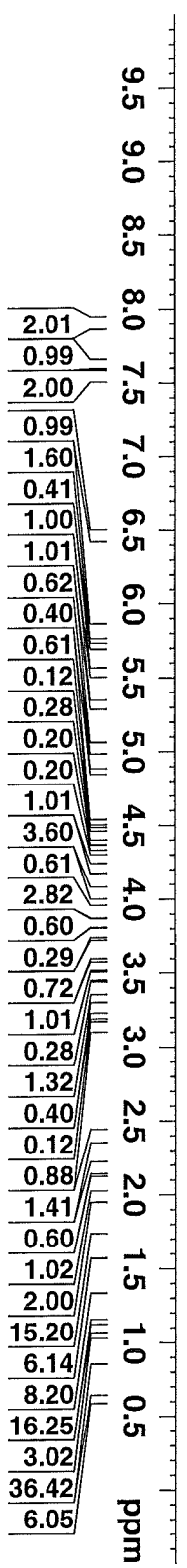
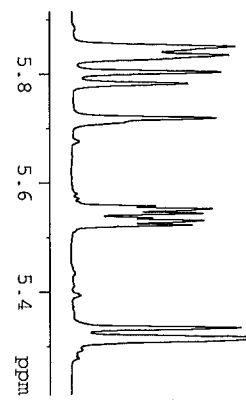
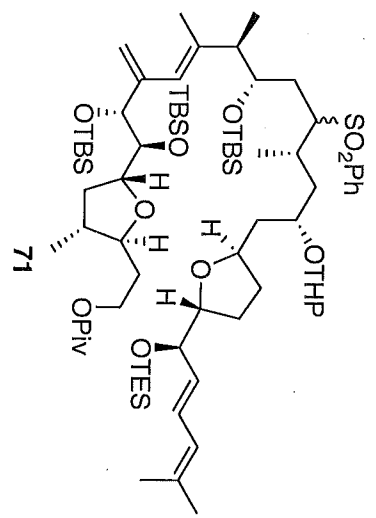
===== CHANNEL f1 =====
 NUC1: 13C
 P1: 7.80 usec
 PL1: -3.00 dB
 SFO1: 100.5185700 MHz

===== CHANNEL f2 =====
 CDPRG2: waltz16
 NUC2: 1H
 PCPD2: 135.00 usec
 PL2: 17.40 dB
 PL12: 17.40 dB
 PL13: 17.40 dB
 SFO2: 399.9516000 MHz

F2 - Processing parameters
 SI: 32768
 SF: 100.5675088 MHz
 DS: 4
 SSB: 0
 LB: 3.00 Hz
 GB: 0
 PC: 1.40

Coupled Sulfone

7.899	7.644	7.566	7.290	6.467	5.850	5.834	5.803	5.333	5.314	4.522	4.282	4.272	4.154	4.144	4.098	3.903	3.565	3.554	2.201	1.996	1.887	1.874	1.788	1.773	1.530	1.524	1.486	1.209	1.089	0.969	0.933	0.911	0.910	0.885	0.624	0.602	0.171	0.169	0.147	0.140	0.136	0.124	0.121	0.117	0.087
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

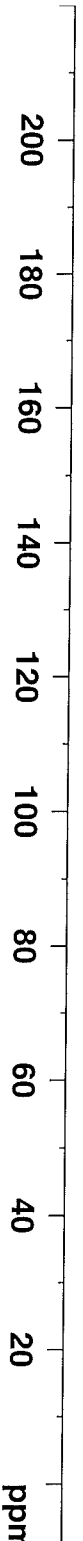
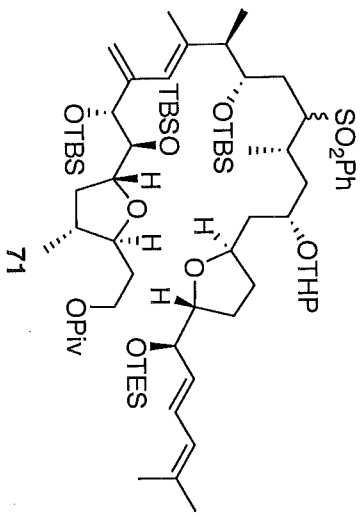
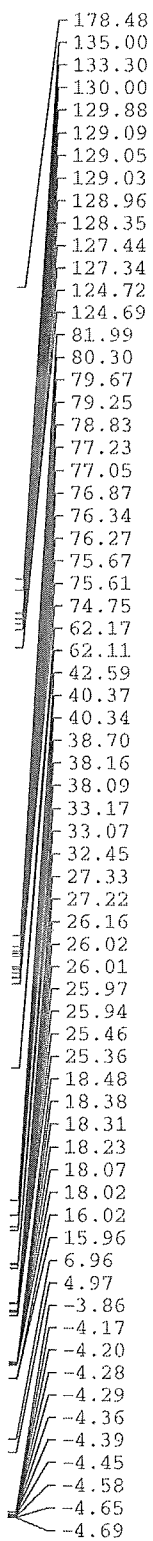


```

NAME          SUN-X11-20-Coupled Sulf
EXPNO         1
PROCNO        1
Date_         20110704
Time          23:25
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            36
DW            42.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1           -3.20 dB
PL1W          33.59817505 W
SFO1          700.1245508 MHz
SI            131072
SF            700.1200000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

Coupled SulFone



```

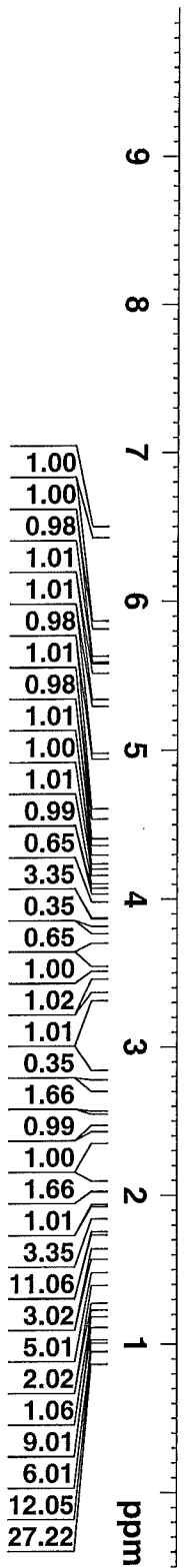
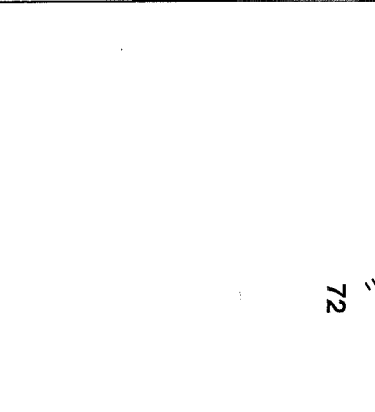
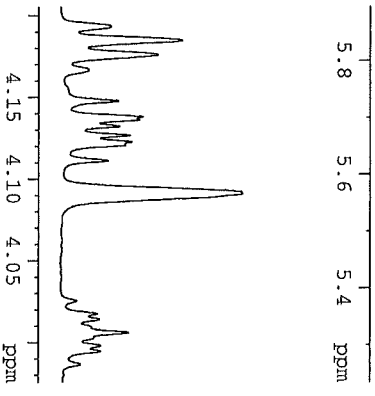
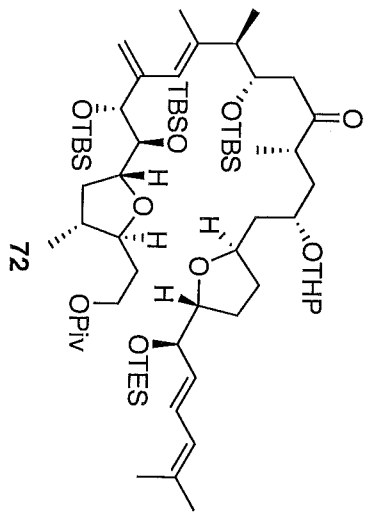
NAME SUK-XII-20-Coupled SulFone
EXPNO 1
PROCNO 2
Date_ 20110704
Time 23:38
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zgpg30
TD 98304
SOLVENT CDCl3
NS 2658
DS 4
SWH 41666.668 Hz
FIDRES 0.423855 Hz
AQ 1.1796980 sec
RG 203
RG 203
DE 12.000 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL F1 =====
NUC1 13C
P1 9.00 usec
PL1 4.50 dB
P1LW 38.14553833 W
SFO1 176.0637988 MHz

===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
RGPD2 65.00 usec
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL2W 33.59817505 W
PL12W 0.70196527 W
PL13W 0.00000000 W
SFO2 700.1228005 MHz
SI 131072
SF 176.0453140 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
    
```

Ketone

7.28
5.84
5.61
5.32
4.96
4.18
4.09
3.95
3.94
3.53
3.52
3.52
3.34
3.34
2.62
2.61
2.06
2.05
1.88
1.88
1.82
1.82
1.79
1.77
1.53
1.52
1.44
1.20
1.09
1.08
1.05
0.98
0.97
0.96
0.91
0.91
0.89
0.62
0.61
0.11
0.08
0.07
0.04
0.02
0.01



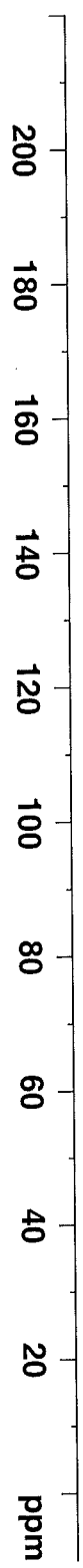
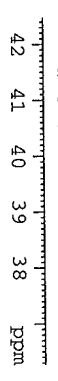
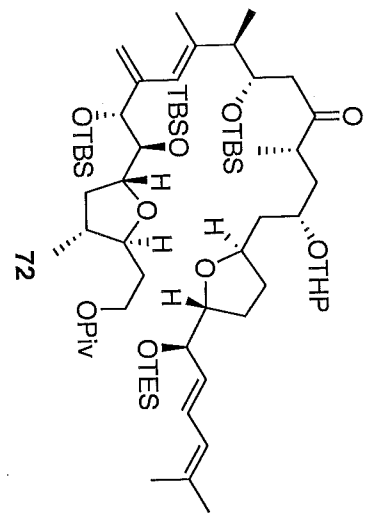
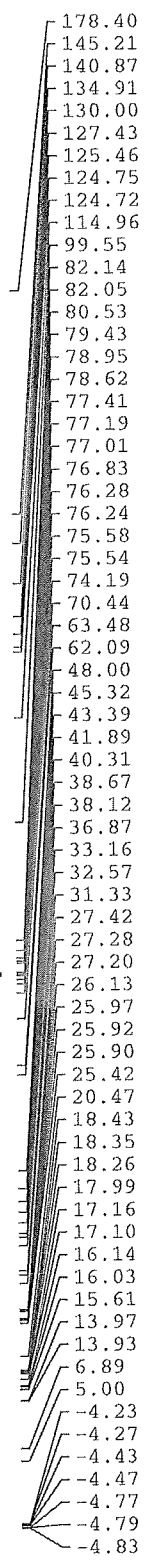
```

NAME          SUM-XII-50-Ketone
EXPNO         1
PROCNO        1
Date_         20130114
Time          2.52
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            203
DE            42.000 usec
TE            298.0 K
D1            2.00000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          1H
P1            13.75 usec
PL1           -3.00 dB
PILW          32.08600616 W
SFO1          700.1516910 MHz
SI            131072
SF            700.1471400 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00

```

Ketone



```

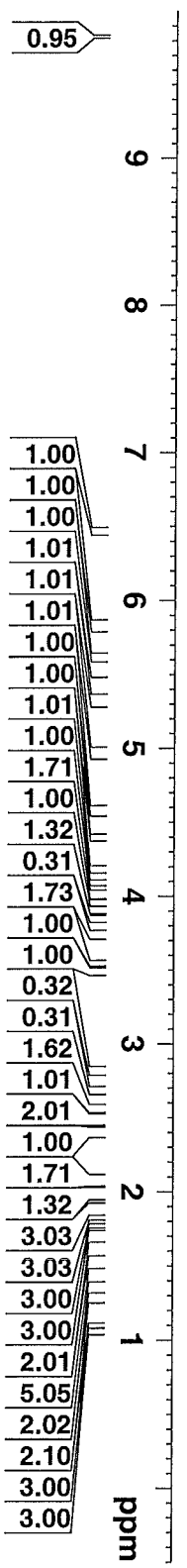
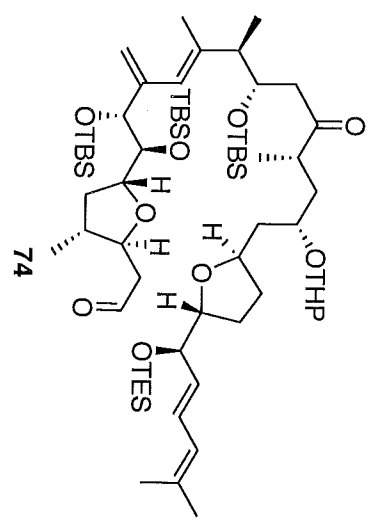
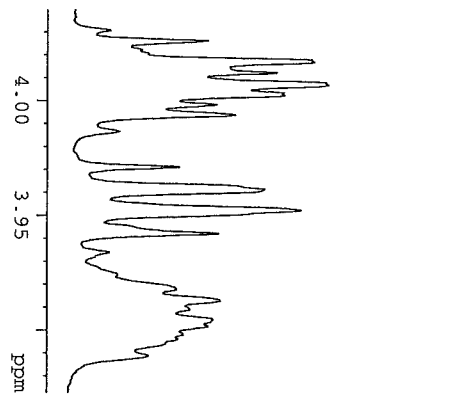
NAME SUM-XII-50-Ketone
EXPNO 3
PROCNO 1
Date_ 20130114
Time 3.20
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 8500
DS 4
SWH 41666.668 Hz
FIDRES 0.635783 Hz
AQ 0.7864820 sec
RG 203
DW 12.000 usec
DE 16.50 usec
TE 298.3 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL F1 =====
NUC1 13C
P1 9.30 usec
PL1 2.00 dB
PL1W 67.83342743 W
SFO1 176.0706238 MHz

===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 dB
PL2 -3.00 dB
PL12 12.30 dB
PL13 12.30 dB
PL2W 32.08600616 W
PL12W 0.94692516 W
PL13W 0.94692516 W
SFO2 700.1499406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```


Keto-aldehyde

6.831	9.828	9.827	9.823	7.288	5.612	5.329	4.978	4.093	3.736	3.731	3.550	3.546	2.497	2.490	2.068	1.883	1.879	1.871	1.831	1.830	1.795	1.778	1.531	1.523	1.281	1.103	1.093	1.055	1.045	1.026	1.016	0.988	0.977	0.965	0.916	0.898	0.641	0.630	0.619	0.607	0.123	0.085	0.045	0.030	0.013
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

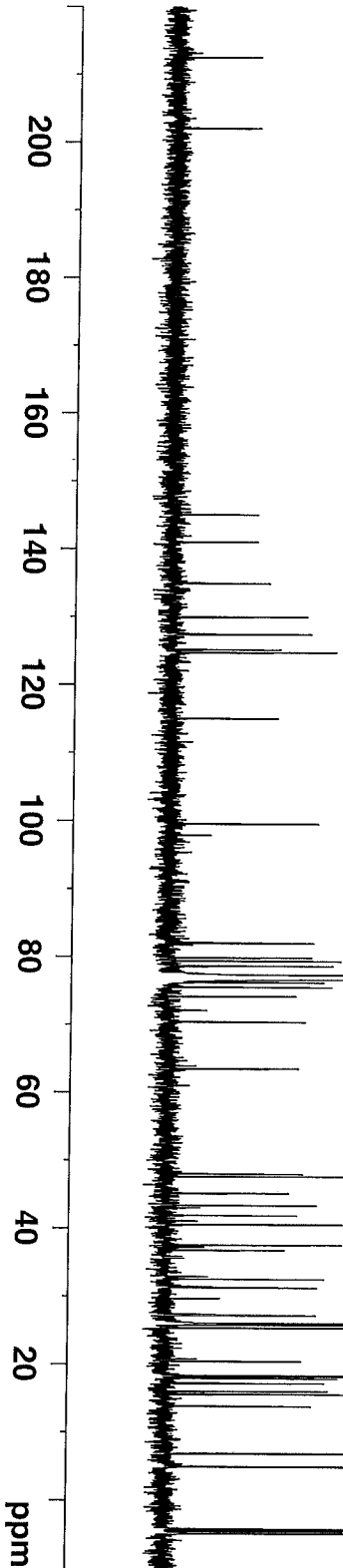
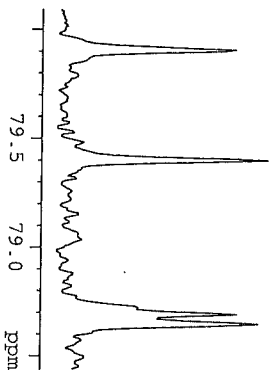
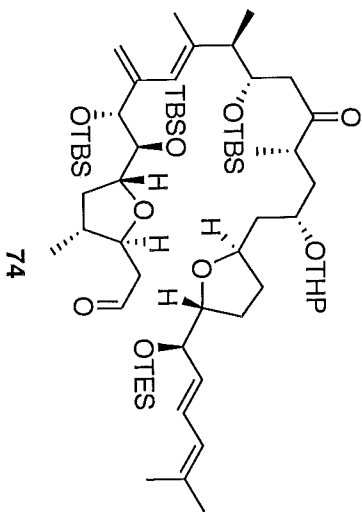


NAME SUM-XVIII-34-Keto-aldehy
 EXPNO 1
 PROCNO 1
 Date_ 20130119
 Time 3.31
 INSTRUM spect
 PROBAD zg30
 PULPROG 5 mm PABBO BB
 TD 95236
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 203
 DW 42.000 usec
 DE 6.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 13.75 usec
 PL1 -3.00 dB
 PL1W 32.08600616 W
 SFO1 700.1516910 MHz
 SI 131.072
 SF 700.1471400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Keto-aldehyde

212.53
202.08
145.10
141.07
134.92
130.00
129.89
127.51
127.43
125.18
124.75
115.04
99.59
97.93
82.14
82.05
79.90
79.40
78.69
78.65
77.41
77.19
77.01
76.83
76.28
75.54
74.21
72.15
70.39
63.50
48.03
47.69
45.19
43.42
41.91
40.63
37.62
37.29
36.85
32.98
32.57
31.47
31.34
29.71
27.43
27.28
26.11
25.96
25.90
25.42
20.84
20.49
18.41
18.35
18.26
17.99
17.31
17.25
16.09
15.63
15.56
13.85
6.90
5.01
4.10
4.30
4.48
4.78
4.82



```

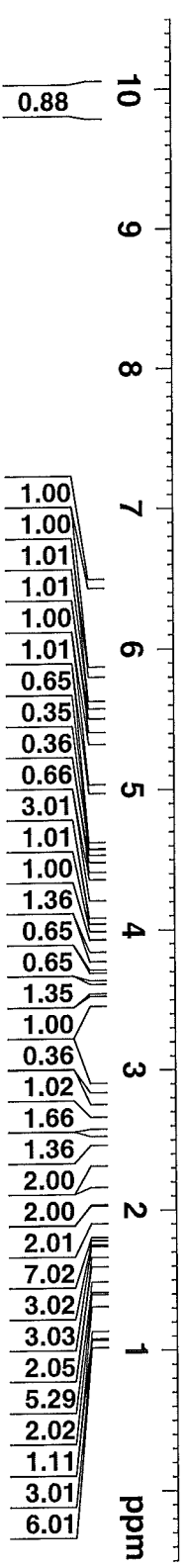
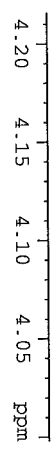
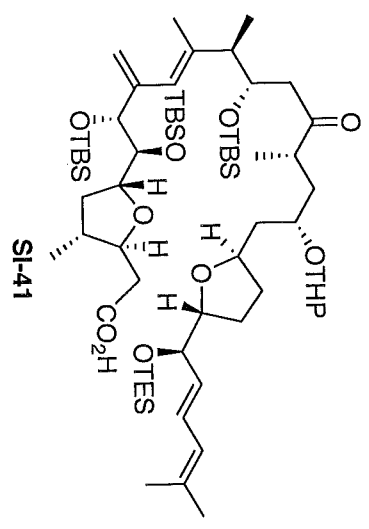
NAME SUM-XVIII-34-Keto-aldehy
EXPNO 3
PROCNO 1
Date_ 20130119
Time 3.57
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 10000
DS 4
SME 41666.668 Hz
FIDRES 0.635783 Hz
AQ 0.7864820 sec
RG 203
DW 12.000 usec
DE 16.50 usec
TE 298.4 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL F1 =====
NUC1 13C
P1 9.30 usec
PL1 2.00 dB
PL1W 67.83342743 W
SFO1 176.0706238 MHz

===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
P2 3.00 dB
PL2 -3.00 dB
PL3 12.30 dB
PL2W 32.08600616 W
PL12W 0.94692516 W
PL13W 0.94682516 W
SFO2 700.1499406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```

Carboxylic acid

7.288
5.848
5.833
5.608
5.544
5.384
5.355
5.000
4.595
4.192
4.110
4.017
3.961
3.586
3.582
3.576
3.572
2.684
2.630
2.621
2.605
2.596
2.502
2.480
2.408
1.853
1.852
1.829
1.827
1.796
1.778
1.702
1.531
1.108
1.097
1.050
0.976
0.924
0.913
0.900
0.630
0.619
0.123
0.098
0.033
0.025



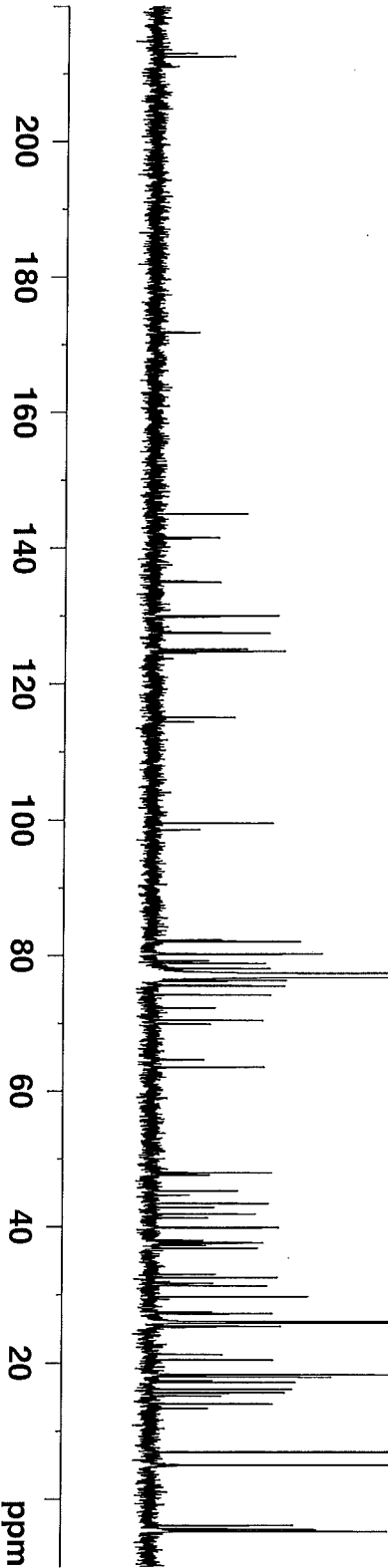
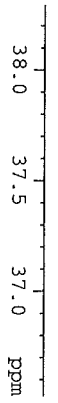
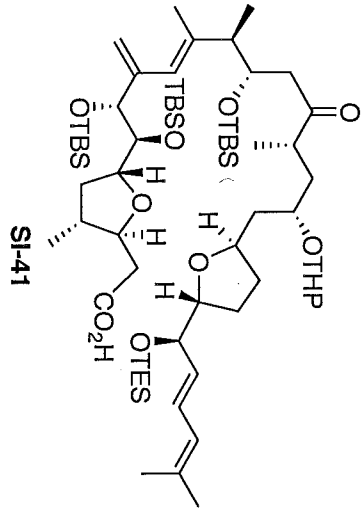
```

SUM-XVIIII-36-Carboxylic ac
NAME SUM-XVIIII-36-Carboxylic ac
EXPNO 1
PROCNO 1
Date_ 20130120
Time 21:31
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 95236
SOLVENT CDCl3
NS 72
DS 2
SWH 11904.762 Hz
FIDRES 0.125003 Hz
AQ 3.9998621 sec
RG 203
DE 42.000 usec
TE 298.4 K
D1 2.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 13.75 usec
PL1 -3.00 dB
PL1W 32.08600616 W
SFO1 700.1516910 MHz
SI 131072
SF 700.1471400 MHz
WDW EM
SSB 0
GB 0
PC 1.00
  
```

Carboxylic acid

212.51
144.99
134.94
129.97
127.46
125.06
124.74
124.69
115.05
99.51
82.21
82.05
80.25
80.20
80.12
78.84
78.06
77.41
77.19
77.01
76.83
76.32
76.19
75.61
75.50
74.17
70.43
63.51
47.93
45.27
43.44
41.85
39.86
37.73
37.61
36.81
32.53
31.32
29.71
27.24
26.09
25.98
25.95
25.89
25.41
21.26
20.47
18.35
18.27
17.99
17.39
17.15
16.16
15.66
15.57
15.17
14.02
13.35
6.89
5.00
-3.90
-4.35
-4.43
-4.48
-4.51
-4.63
-4.74
-4.77
-4.82



```

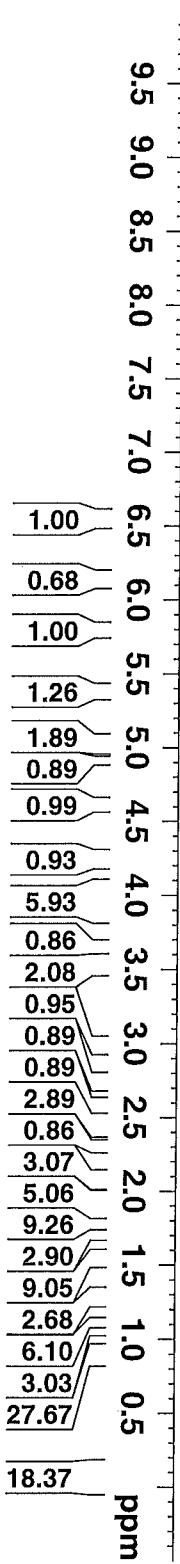
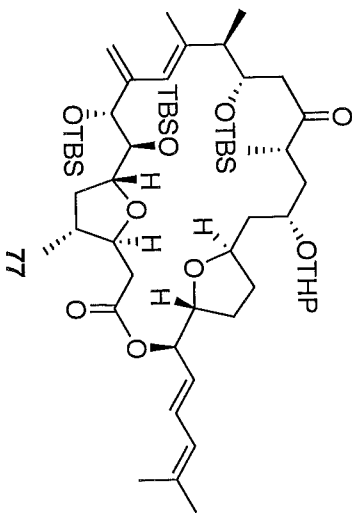
NAME          SUD-XVIII-36-Carboxylic ac
EXRNO         3
PROCNO        1
Date_         20130120
Time          22.01
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            15000
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DM            12.000 usec
DE            16.50 usec
TE            298.4 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.30 usec
PL1           2.00 dB
PL1W          67.83342743 W
SFO1          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        80.00 usec
PL2           -3.00 dB
PL12         12.30 dB
PL13         12.30 dB
PL12W        32.08600616 W
PL13W        0.94692516 W
SFO2          700.1499406 MHz
SI            32768
SF            176.0521380 MHz
WDW           EM
SSB           0
GB            0
PC            1.40
  
```

Macrolactone

5.791
5.776
5.052
4.916
4.609
4.006
3.954
3.914
3.548
3.538
2.484
2.303
2.099
2.079
2.053
2.044
2.036
1.957
1.930
1.891
1.861
1.840
1.784
1.778
1.704
1.540
1.260
1.255
1.251
1.246
1.238
1.106
1.058
1.048
1.039
0.913
0.867
0.114
0.107
0.097
0.095
0.059
0.054
0.031
0.027
0.014



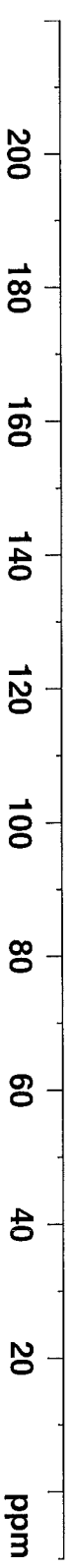
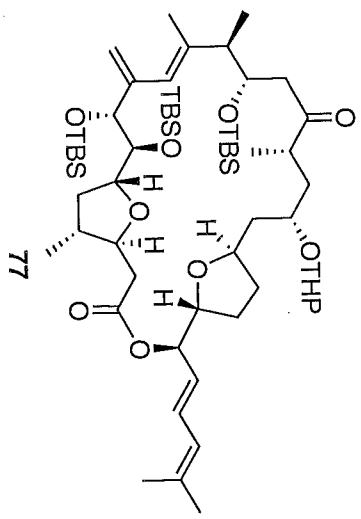
```

NAME          SWH-XII-56-Macrolactomizati
EXPNO         1
PROCNO        1
Date_         20110730
Time         4.19
INSTRUM       5 mm CPDCH 13C
PROBHD        zg30
PULPROG       zgpg30
TD            95236
SOLVENT       CDCl3
NS            100
DS            2
SMF           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            114
DW            42.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.40 usec
PL            -3.20 dB
F1W           33.59817505 W
SFO1          700.124508 KHz
SI            131072
SF            700.1200000 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
    
```

Macrolactone

170.51
170.45
140.62
137.53
131.23
128.95
128.37
125.57
124.28
81.78
77.23
77.05
76.87
75.70
75.44
71.70
64.13
63.79
56.03
47.05
46.36
42.74
42.26
42.07
41.80
40.74
39.93
39.80
38.63
36.63
34.87
34.69
34.56
34.25
32.74
32.62
31.97
31.74
31.58
31.02
30.33
29.41
28.98
26.48
26.09
25.99
25.89
25.40
25.30
24.70
22.74
21.01
20.74
18.72
18.55
18.49
17.99
16.76
16.44
16.04
15.35
14.19
-4.09
-4.50
-4.62
-4.73
-4.85
-5.26
-5.33



```

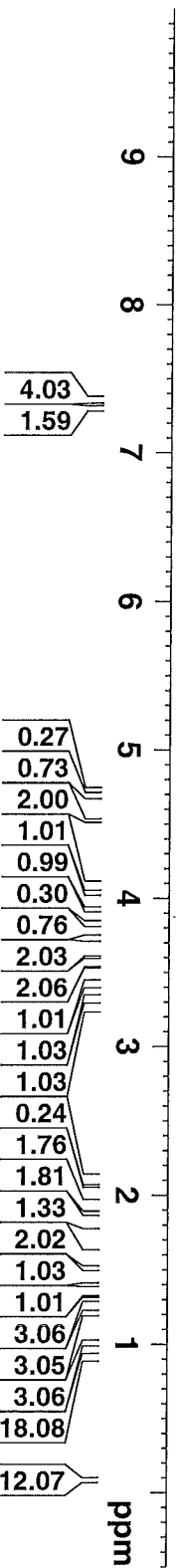
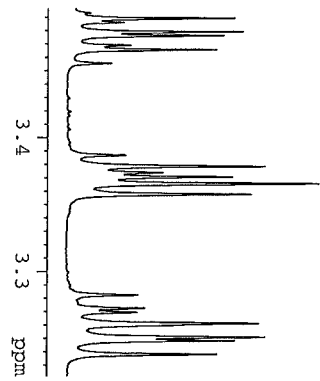
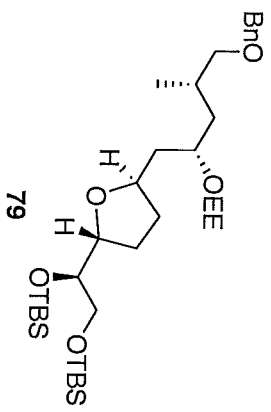
NAME          SDW-XII-56-Macrolactonizati
EXPNO         2
PROCNO        1
Date_         20110730
Time          4.35
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            983304
SOLVENT       CDCl3
NS            4800
DS            4
SWH           41666.668 Hz
FIDRES       0.423855 Hz
AQ           1.1796980 sec
RG           203
DM           12.000 usec
DE           15.000 usec
TE           298.2 K
D1           2.00000000 sec
D11          0.030000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1          4.50 dB
PR1W        38.14553833 W
SFO1        176.0637988 MHz

===== CHANNEL f2 =====
CEPFRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12        13.60 dB
PL13        120.00 dB
PL2W        33.59817505 W
PL12W       0.70196527 W
PL13W       0.00080000 W
SFO2        700.1228005 MHz
ST          131072
SF          176.0453140 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```

EE Ether

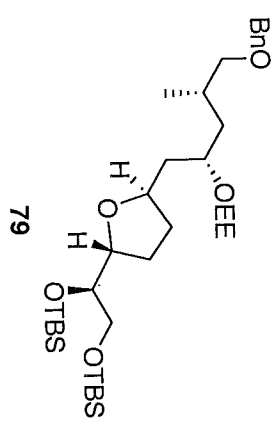
- 7.363
- 7.357
- 7.301
- 7.295
- 7.288
- 4.693
- 4.685
- 4.520
- 4.075
- 3.682
- 3.677
- 3.666
- 3.643
- 3.572
- 3.565
- 3.564
- 3.489
- 3.479
- 3.476
- 3.466
- 3.379
- 3.371
- 3.366
- 3.358
- 3.261
- 3.251
- 3.248
- 3.238
- 2.013
- 1.942
- 1.935
- 1.929
- 1.575
- 1.305
- 1.297
- 1.220
- 1.210
- 1.200
- 1.010
- 1.000
- 0.918
- 0.904
- 0.094
- 0.090
- 0.080
- 0.077



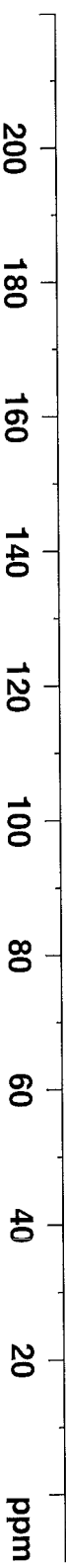
```

NAME          SUM-XV-19-EE Protecti
EXPNO         1
PROCNO       1
Date_       20120404
Time        13.22
INSTRUM     spect
PROBHD      5 mm CPDCH 13C
PULPROG     zg30
TD          95236
SOLVENT     CDCl3
NS          32
DS          2
SWH         11904.762 Hz
AQ          0.125003 Hz
FIDRES     3.9999621 sec
RG          22.6
DW         42.000 usec
DE         6.50 usec
TE         303.2 K
D1         2.0000000 sec
TD0        1

===== CHANNEL f1 =====
NUC1        1H
P1          9.40 usec
PL1        -3.20 dB
PL1W       33.59817505 W
SF01       700.1516910 MHz
SI         131072
SF         700.1471400 MHz
WDW        EM
SSB        0
IB         0.30 Hz
GB         0
PC         1.00
  
```



- 138.89
- 138.79
- 128.31
- 128.28
- 127.57
- 127.42
- 127.36
- 99.65
- 98.39
- 78.66
- 78.52
- 77.22
- 77.04
- 76.86
- 76.45
- 76.35
- 76.27
- 76.09
- 72.92
- 72.88
- 72.84
- 71.95
- 65.12
- 60.77
- 60.55
- 41.88
- 41.22
- 39.08
- 38.62
- 33.23
- 32.99
- 29.83
- 29.73
- 27.39
- 27.36
- 26.03
- 25.95
- 20.96
- 20.79
- 18.44
- 18.18
- 17.39
- 17.08
- 15.43



```

NAME          SUM-KV-19-EE Protecti
EXPNO         2
PROCNO        1
Date_         20120404
Time         13.36
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            301
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            303.2 K
D1            2.0000000 sec
D11           0.0300000 sec
TD0           1

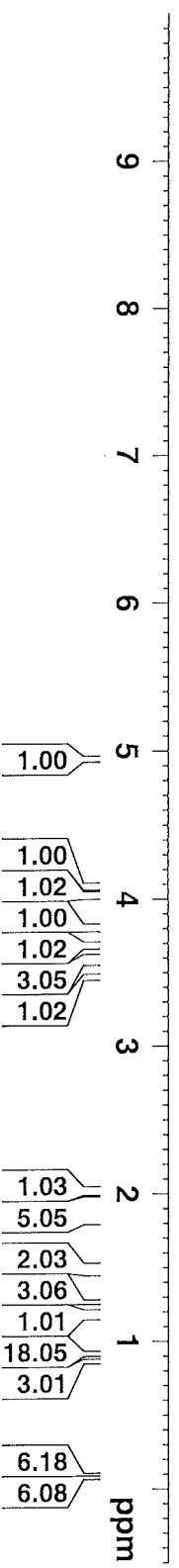
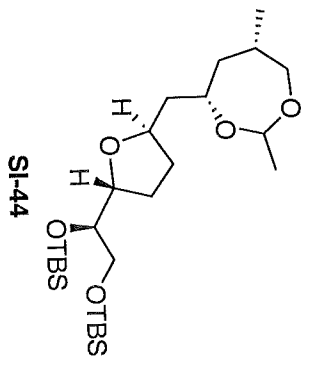
===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
SFO1          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2         65.00 usec
PL2           -3.20 dB
PL12          13.60 dB
PL13          120.00 dB
PL2W          33.59817505 W
PL12W         0.70196527 W
PL13W         0.00000000 W
SFO2          700.1499406 MHz
SI            SF
SF            176.0521380 MHz
WDW           EM
SSB           0
LB            3.00 HZ
GB            0
PC            1.40
    
```


Cyclic ketals

7.288
4.951
4.943
4.091
4.087
4.037
4.028
4.024
4.015
3.692
3.686
3.605
3.590
3.586
3.576
3.574
3.480
3.478
3.475
3.463
3.459
1.948
1.938
1.928
1.918
1.838
1.831
1.827
1.824
1.809
1.510
1.501
1.491
1.268
1.260
1.192
1.188
1.172
0.914
0.912
0.871
0.861
0.096
0.078
0.074

3.8
3.7
3.6
3.5 ppm



SUM-XV-90-Cyclic Ket

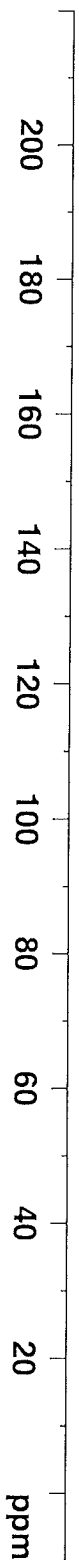
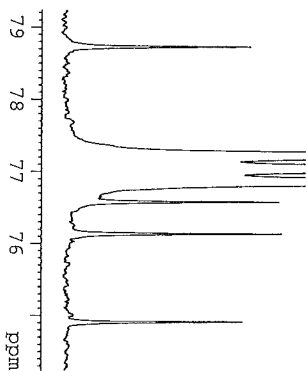
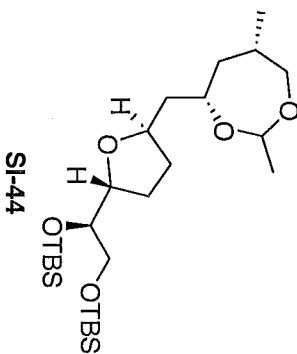
NAME	1H
EXPNO	1
PROCNO	1
Date_	20120814
Time	21.20
INSTRUM	spect
PROBHD	5 mm CPDCH 13C
PULPROG	zg30
TD	95236
SOLVENT	CDCl3
NS	32
DS	2
SWH	11904.762 Hz
FIDRES	0.125003 Hz
AQ	3.9999621 sec
RG	22.6
DW	42.000 usec
DE	6.50 usec
TE	295.3 K
D1	2.00000000 sec
TD0	1

==== CHANNEL F1 =====

NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PL1W	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Cyclic Ketal

- 98.45
- 78.72
- 77.22
- 77.04
- 76.86
- 76.57
- 76.13
- 74.91
- 67.35
- 65.16
- 43.34
- 42.32
- 34.39
- 32.58
- 27.46
- 26.03
- 25.95
- 20.57
- 18.44
- 18.22
- 17.60
- 4.19
- 4.77
- 5.33



```

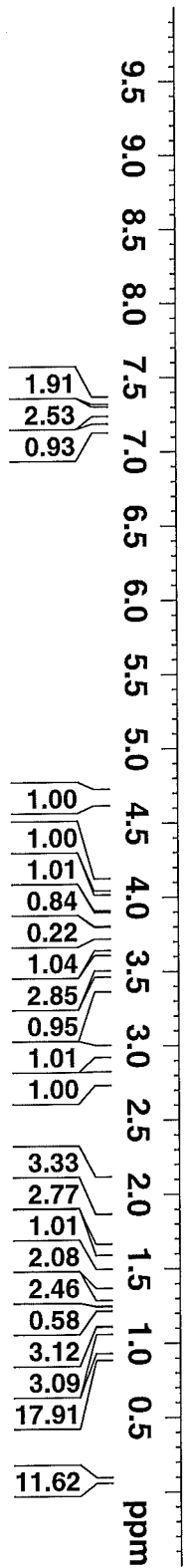
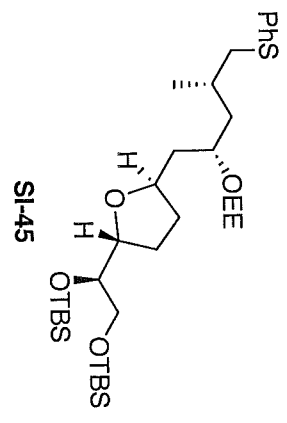
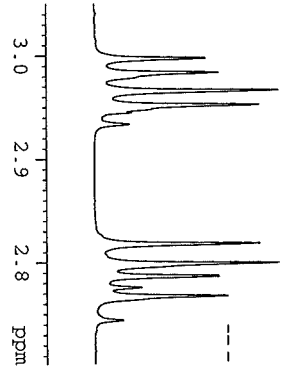
NAME          SUM-XV-90-Cyclic Kete
EXPNO         2
PROCNO        1
Date_         20120814
Time          21.31
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            138
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            295.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2          700.1499406 MHz
SI            32768
SF            176.0521380 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
  
```

Sulfide

7.359
7.341
7.338
7.290
7.282
7.272
7.252
7.176
7.158
4.710
4.697
3.691
3.683
3.578
3.561
3.557
3.544
3.538
3.429
3.411
3.406
3.388
2.982
2.965
2.951
2.817
2.798
2.786
2.767
1.459
1.435
1.278
1.265
1.237
1.224
1.193
1.164
1.146
1.129
1.097
1.086
1.081
0.911
0.093
0.074
0.071

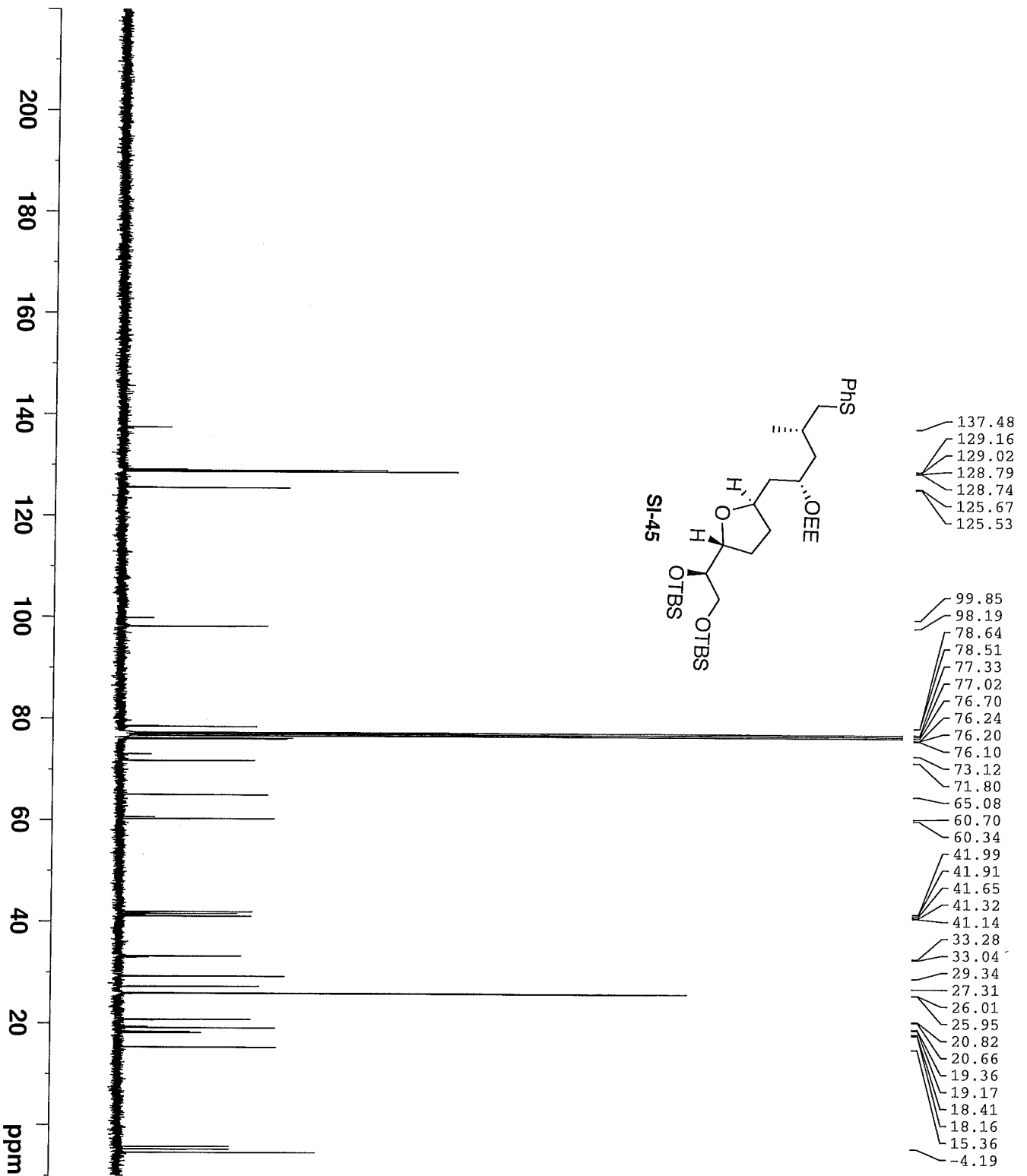


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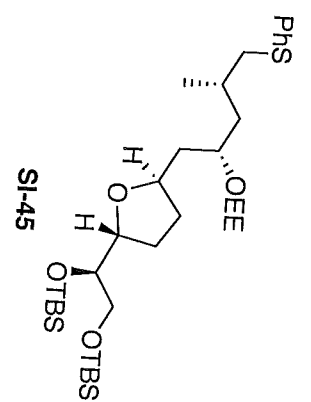
NAME          SUM-XIV-56-R-Sulfide
EXPNO         1
PROCNO        1
Date_         20111127
Time          18.19
INSTRUM       robinson
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            32768
SOLVENT       CDCl3
NS            32
DS            2
SWH           6793.478 Hz
FIDRES       0.207320 Hz
AQ           2.4117749 sec
RG           71.8
DW           73.600 usec
DE           6.50 usec
TE           298.2 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           14.00 usec
PL1          0.00 dB
SFO1         400.1424008 MHz
SI           32768
SF           400.1400000 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Sulfide



- 137.48
- 129.16
- 129.02
- 128.79
- 128.74
- 125.67
- 125.53
- 99.85
- 98.19
- 78.64
- 78.51
- 77.33
- 77.02
- 76.70
- 76.24
- 76.20
- 76.10
- 73.12
- 71.80
- 65.08
- 60.70
- 60.34
- 41.99
- 41.91
- 41.65
- 41.32
- 41.14
- 33.28
- 33.04
- 29.34
- 27.31
- 26.01
- 25.95
- 20.82
- 20.66
- 19.36
- 19.17
- 18.41
- 18.16
- 15.36
- 4.19



```

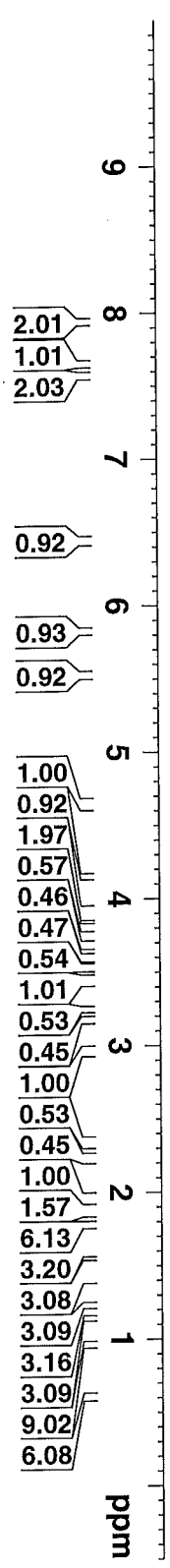
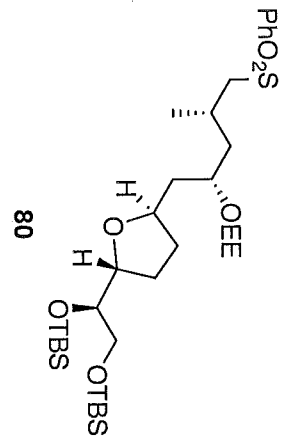
NAME SUM-XIV-56-R-Sulfide
EXPNO 2
PROCNO 1
Date_ 20111127
Time 18.26
INSTRUM robinson
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 2134
DS 4
SWH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 23170.5
DW 20.850 usec
DE 6.50 usec
TE 298.6 K
D1 0.20000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 -2.00 dB
SFO1 100.6258476 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 90.00 usec
PL2 0.00 dB
PL12 16.16 dB
PL13 17.00 dB
SFO2 400.1416006 MHz
SI 33768
SF 100.6152830 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
    
```

Sulfone

- 7.957
- 7.945
- 7.933
- 7.661
- 7.652
- 7.583
- 7.581
- 7.572
- 7.288
- 5.837
- 5.822
- 4.671
- 4.664
- 4.634
- 4.627
- 4.155
- 3.934
- 3.926
- 3.916
- 3.532
- 3.446
- 3.436
- 3.244
- 3.237
- 2.978
- 2.976
- 2.967
- 2.956
- 1.792
- 1.772
- 1.244
- 1.237
- 1.229
- 1.221
- 1.193
- 1.177
- 0.976
- 0.965
- 0.965
- 0.954
- 0.627
- 0.617
- 0.616
- 0.605
- 0.604
- 0.593

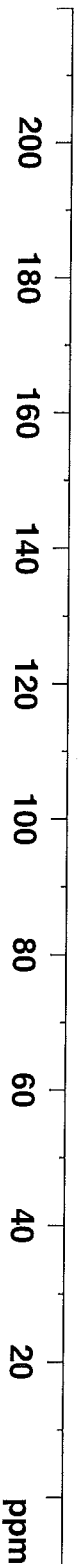
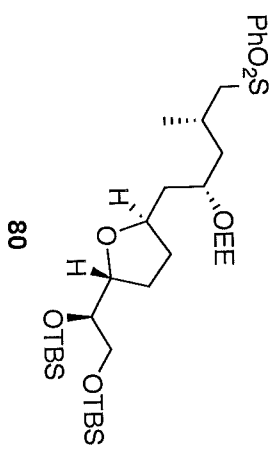


NAME SUM-XIV-63-Diene
 EXPNO 1
 PROCNO 1
 Date_ 20120109
 Time 18.08
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 95236
 SOLVENT CDCl3
 NS 32
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 101
 DW 42.000 usec
 DE 6.50 usec
 TE 298.7 K
 D1 2.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 13.75 usec
 PL1 -3.00 dB
 PL1W 32.08600616 W
 SFO1 700.1516910 MHz
 SI 131072
 SF 700.1471400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Sulfone

140.21
140.08
135.13
135.11
133.51
133.39
129.96
129.95
129.25
129.15
128.02
127.97
127.54
127.53
124.68
99.89
98.02
82.12
82.07
77.21
77.03
76.85
76.00
75.68
75.63
72.86
71.14
63.17
63.10
60.68
60.59
41.92
41.71
41.65
40.77
32.92
32.70
27.32
27.30
25.99
25.87
20.69
20.57
19.98
19.74
18.28
15.44
15.34
6.89
5.01



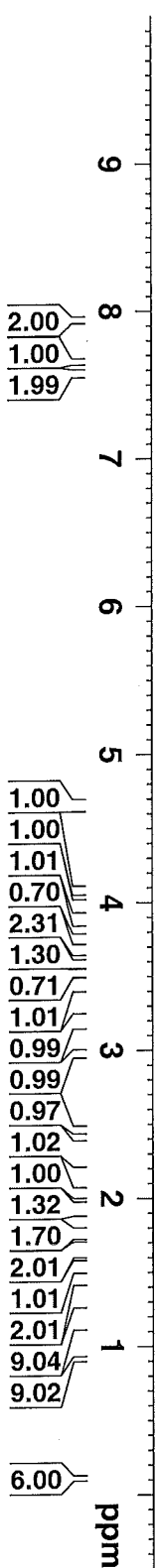
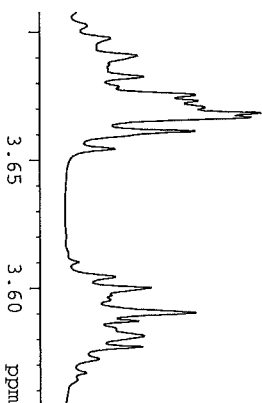
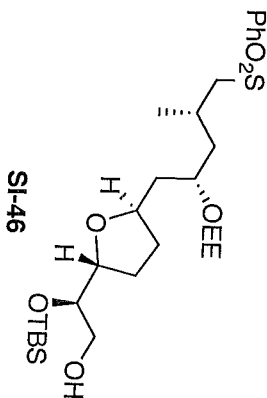
NAME SUM-XIV-63-Diene
 EXPNO 2
 PROCNO 1
 Date_ 20120109
 Time 18.16
 INSTRUM spect
 PROBD 5 mm PABBO BB-
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 2449
 DS 4
 SWH 41666.668 Hz
 FIDRES 0.635783 Hz
 AQ 0.7864820 sec
 RG 203
 DW 12.000 usec
 DE 6.50 usec
 TE 299.1 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

==== CHANNEL F1 =====
 NUC1 13C
 P1 9.30 usec
 PL1 2.00 dB
 PL1W 67.83342743 W
 SFO1 176.0706238 MHz

==== CHANNEL F2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 80.00 usec
 PL2 -3.00 dB
 PL12 12.30 dB
 PL13 12.30 dB
 PL2W 32.08600616 W
 PL12W 0.94692516 W
 PL13W 0.94692516 W
 SFO2 700.1499406 MHz
 SI 32768
 SF 176.0521380 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Alcohol

7.946
7.944
7.657
7.586
7.576
7.575
7.288
4.682
4.674
3.670
3.668
3.666
3.600
3.590
3.535
3.525
3.522
3.512
3.440
3.430
3.427
3.417
3.241
3.234
3.221
3.214
2.998
2.987
2.978
2.967
2.471
2.462
1.773
1.771
1.765
1.753
1.474
1.462
1.458
1.254
1.246
1.173
1.135
1.125
0.921
0.113



2.00
1.00
1.99

1.00
1.00
1.01
0.70
2.31
1.30
0.71
1.01
0.99
0.99
1.02
1.00
1.32
1.70
2.01
1.01
2.01
9.04
9.02

6.00

ppm

```

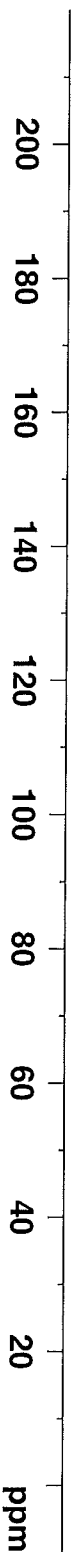
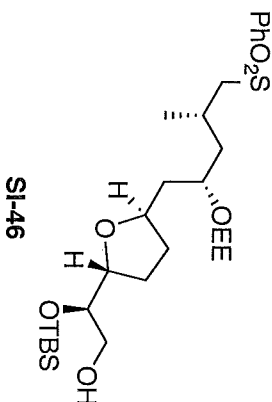
NAME          SUM-XTV-59-Alcohol
EXPNO         3
PROCNO        1
Date_         20121010
Time          9.59
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            144
DM            42.000 usec
DE            6.50 usec
TE            298.9 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            13.75 usec
PL1          -3.00 dB
PL1W         32.08600616 W
SF01         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00

```

Alcohol

- 140.17
- 140.06
- 133.54
- 133.42
- 129.26
- 129.17
- 128.02
- 127.97
- 99.99
- 97.78
- 80.48
- 80.35
- 77.21
- 77.03
- 76.85
- 76.37
- 76.28
- 74.47
- 74.42
- 72.84
- 70.78
- 64.62
- 63.13
- 63.10
- 60.51
- 60.35
- 41.75
- 41.59
- 40.61
- 32.92
- 32.71
- 27.56
- 25.88
- 25.81
- 25.78
- 20.59
- 20.50
- 20.06
- 19.78
- 18.17
- 15.41
- 15.36
- 4.50



```

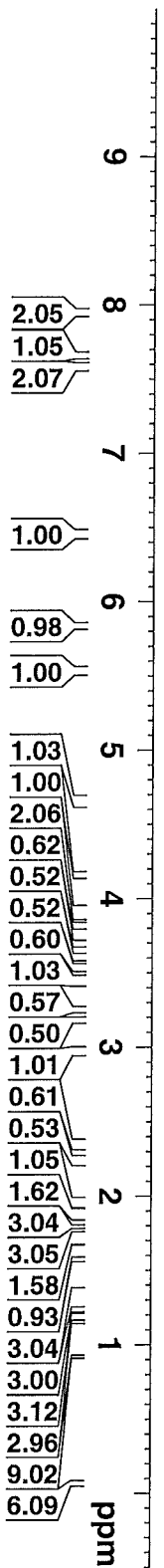
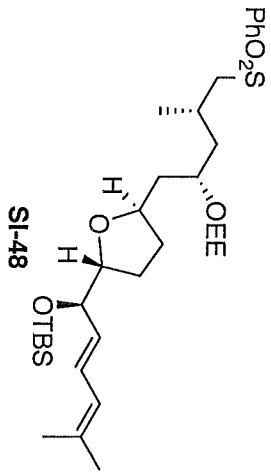
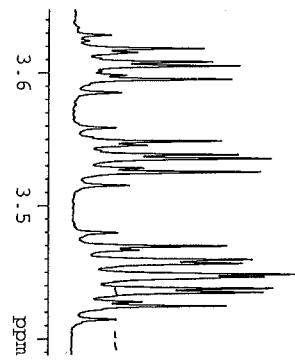
NAME SUM-XIV-59-Alcohol
EXPNO 4
PROCNO 1
Date_ 20120105
Time 10.11
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 696
DS 4
SWH 41666.668 Hz
FIDRES 0.635783 Hz
AQ 0.7864820 sec
RG 203
DW 12.000 usec
DE 6.50 usec
TE 298.7 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL F1 =====
NUC1 13C
P1 9.30 usec
PL1 2.00 dB
PL1W 67.83342743 W
SFO1 176.0706235 MHz

===== CHANNEL F2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -3.00 dB
PL12 12.30 dB
PL13 12.30 dB
PL12W 32.08600616 W
PL12W 0.94692516 W
PL13W 0.94692516 W
SFO2 700.1499406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```


Sidarm Diene

7.962	7.950	7.939	7.666	7.657	7.588	7.586	7.577	7.288	6.458	5.846	5.830	4.677	4.670	4.638	4.630	4.161	3.939	3.928	3.920	3.535	3.448	3.446	3.438	3.435	3.247	3.240	2.982	2.972	2.962	1.874	1.797	1.774	1.433	1.249	1.241	1.197	1.181	1.157	1.150	1.148	0.921	0.920	0.079	0.078	0.057
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



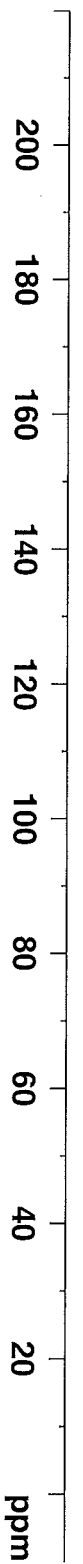
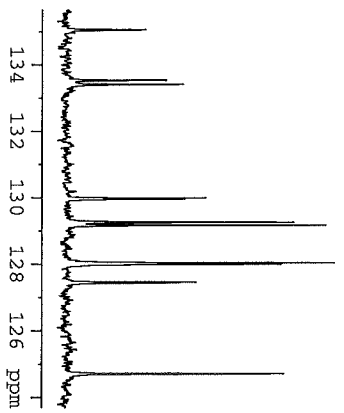
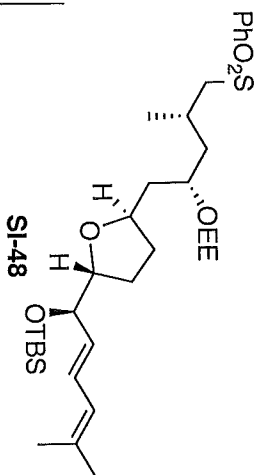
```

NAME          SUM-XIV-61-Diene
EXPNO         1
PROCNO        1
Date_         20120107
Time          14.22
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES       0.125003 Hz
AQ           3.9999621 sec
RG            203
DW           42.000 usec
DE           6.50 usec
TE           298.9 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           13.75 usec
PL1          -3.00 dB
PL1W         32.08600616 W
SF01         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Sidearm Diene

- 140.21
- 140.08
- 135.04
- 133.52
- 133.39
- 129.97
- 129.95
- 129.25
- 129.16
- 128.03
- 127.98
- 127.45
- 124.70
- 99.94
- 98.00
- 82.12
- 82.08
- 77.20
- 77.02
- 76.84
- 76.02
- 75.72
- 75.67
- 72.89
- 71.12
- 63.19
- 63.12
- 60.69
- 60.59
- 41.89
- 41.72
- 41.64
- 40.77
- 32.97
- 32.74
- 27.24
- 27.21
- 25.98
- 25.89
- 20.70
- 20.58
- 20.00
- 19.77
- 18.27
- 15.45
- 15.35
- 4.44



```

NAME          SUM-XIV-61-Diene
EXPNO         5
PROCNO        1
Date_         20120107
Time          15.54
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            5000
DS            4
SWH           41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           6.50 usec
TE           299.0 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1
  
```

```

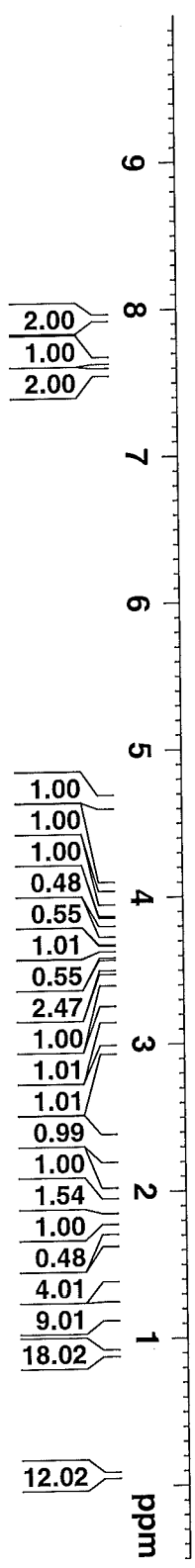
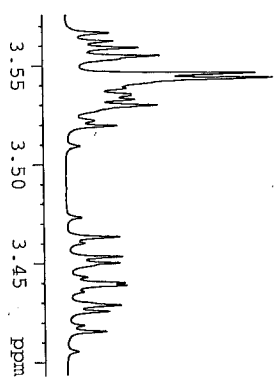
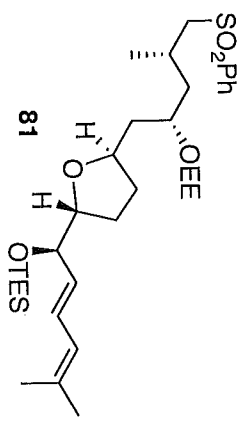
===== CHANNEL f1 =====
NUC1          13C
P1            9.30 usec
PL1           2.00 dB
PL1W         67.83342743 W
SFO1         176.0706238 MHz
  
```

```

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        80.00 usec
PL2          -3.00 dB
PL12         12.30 dB
PL13         12.30 dB
PL1W         32.08600616 W
PL12W        0.94692516 W
PL13W        0.94692516 W
SFO2         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```

Sulfone

- 7.959
- 7.947
- 7.936
- 7.662
- 7.655
- 7.652
- 7.595
- 7.583
- 7.574
- 7.563
- 7.288
- 4.678
- 4.671
- 4.627
- 4.620
- 4.080
- 3.659
- 3.655
- 3.651
- 3.646
- 3.612
- 3.602
- 3.559
- 3.554
- 3.545
- 3.542
- 3.453
- 3.440
- 3.439
- 3.160
- 2.976
- 2.972
- 2.963
- 2.955
- 1.243
- 1.236
- 1.213
- 1.197
- 1.175
- 1.150
- 1.144
- 0.910
- 0.907
- 0.898
- 0.081
- 0.067

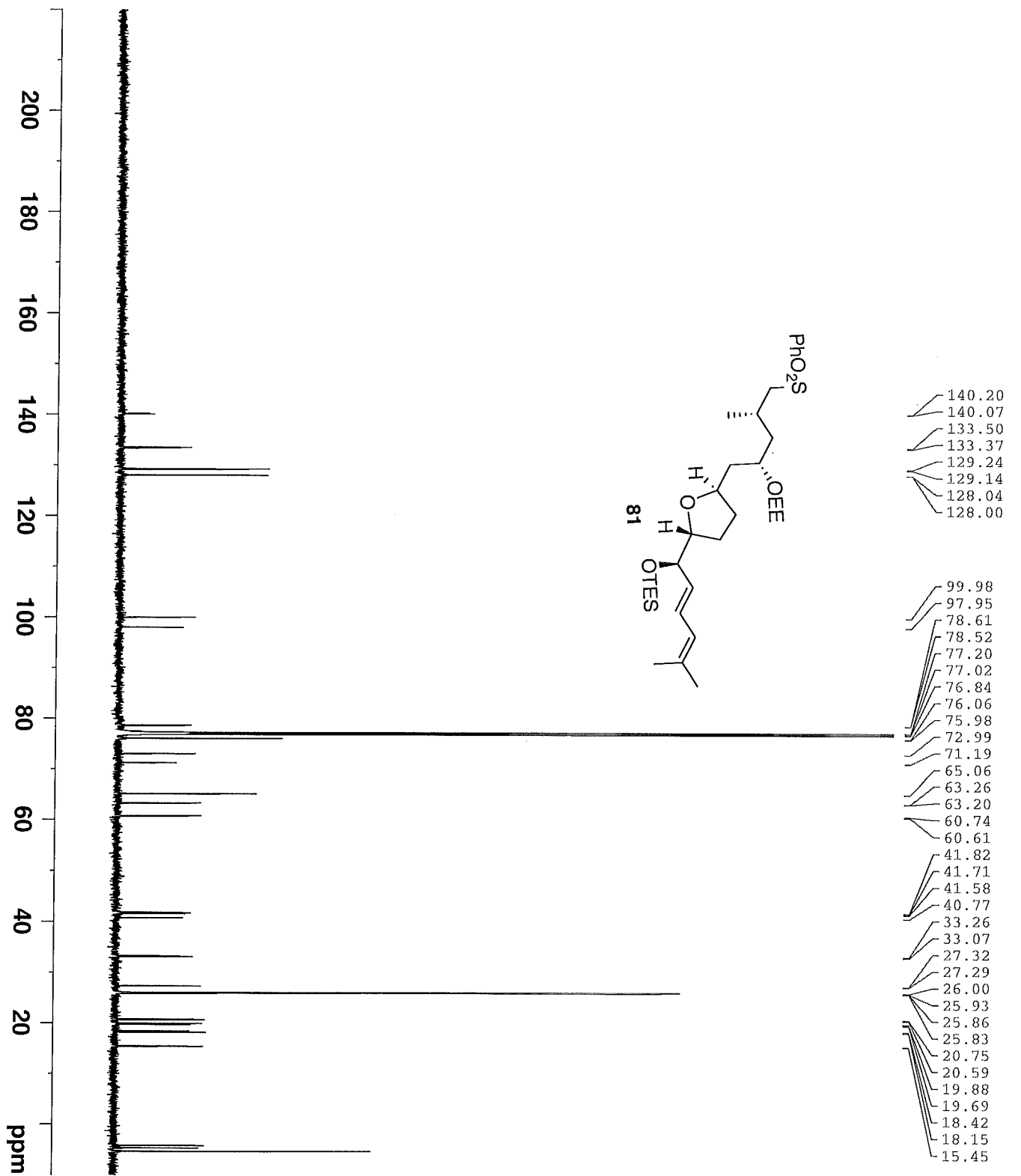


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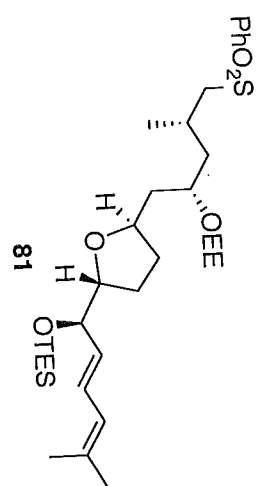
NAME          STM-XIV-57-Sulfon
EXPNO         3
PROCNO        1
Date_         20111202
Time          14.36
INSTRUM       spect
PROBHD        5 mm PABBO BB-
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            128
DW            42.000 usec
DE            6.50 usec
TE            298.0 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            13.75 usec
PL1          -3.00 dB
PL1W         32.08600616 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW           EM
SSB           0
LB           0.30 Hz
GB           0
PC           1.00
  
```

Sulfone



- 140.20
- 140.07
- 133.50
- 133.37
- 129.24
- 129.14
- 128.04
- 128.00
- 99.98
- 97.95
- 78.61
- 78.52
- 77.20
- 77.02
- 76.84
- 76.06
- 75.98
- 72.99
- 71.19
- 65.06
- 63.26
- 63.20
- 60.74
- 60.61
- 41.82
- 41.71
- 41.58
- 40.77
- 33.26
- 33.07
- 27.32
- 27.29
- 26.00
- 25.93
- 25.86
- 25.83
- 20.75
- 20.59
- 19.88
- 19.69
- 18.42
- 18.15
- 15.45



NAME: STM-XIV-57-Sulfon
 EXPNO: 4
 PROCNO: 1
 Date_ : 20111202
 Time: 14.54
 INSTRUM: spect
 PROBHD: 5 mm PABBO BB-
 PULPROG: zgpg30
 TD: 65536
 SOLVENT: CDCl3
 NS: 928
 DS: 4
 SWH: 41666.668 Hz
 FIDRES: 0.635783 Hz
 AQ: 0.7864820 sec
 RG: 203
 DW: 12.000 usec
 DE: 6.50 usec
 TE: 298.4 K
 D1: 2.00000000 sec
 D11: 0.03000000 sec
 TD0: 1

==== CHANNEL F1 =====
 NUC1: 13C
 P1: 9.30 usec
 PL1: 2.00 dB
 PL1W: 67.83342743 W
 SFO1: 176.0706238 MHz

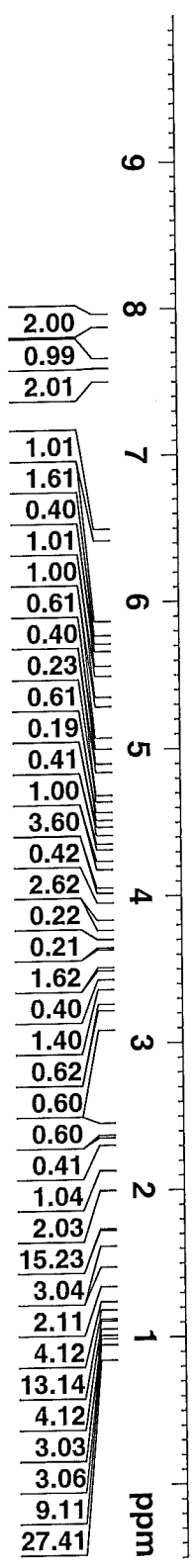
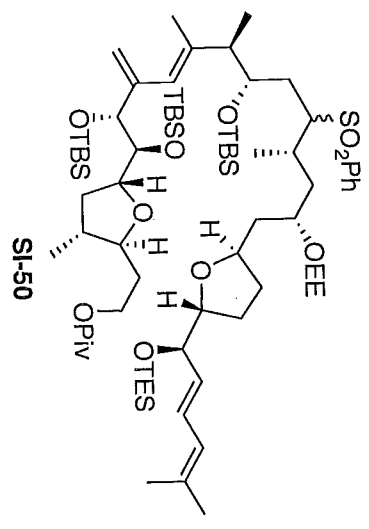
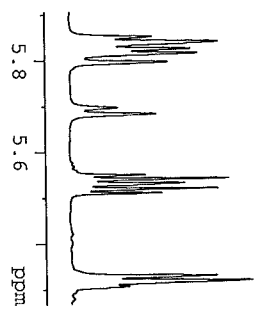
==== CHANNEL F2 =====
 CPDPRG2: waltz16
 NUC2: 1H
 PCPD2: 80.00 usec
 PL2: -3.00 dB
 PL12: 12.30 dB
 PL13: 12.30 dB
 PL1W: 32.08600616 W
 PL12W: 0.94692516 W
 PL13W: 0.94692516 W
 SFO2: 700.1499406 MHz
 SI: 32768
 SF: 176.0521380 MHz
 WDW: EM
 SSB: 0
 LB: 3.00 Hz
 GB: 0
 PC: 1.40

NAME SUM-XV-34-Coupled Sulfo
 EXPNO 1
 PROCNO 1
 Date_ 20120412
 Time 22.43
 INSTRUM spect
 PROBRD 5 mm CPDCH 13C
 PULPROG zg30
 TD 95236
 SOLVENT CDCl3
 NS 63
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 22.6
 DW 42.000 usec
 DE 6.50 usec
 TE 303.2 K
 D1 2.00000000 sec
 TDO 1

==== CHANNEL f1 =====
 NUCL1 1H
 P1 9.40 usec
 PL1 -3.20 dB
 PL1W 33.59817505 W
 SFO1 700.1516910 MHz
 SI 131072
 SF 700.1471400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

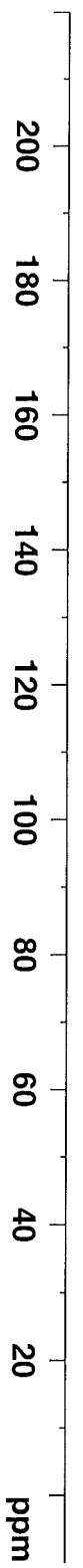
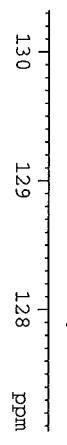
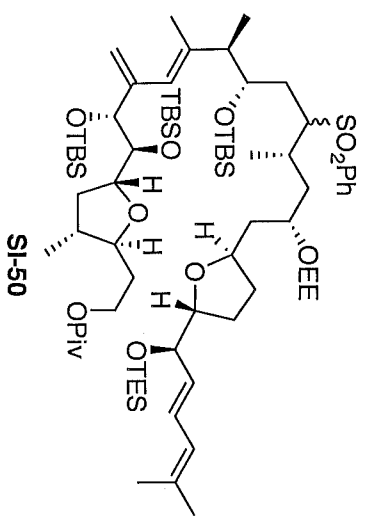
Coupled Sulfone

7.941
7.929
7.895
7.631
7.566
7.554
7.288
6.458
5.839
5.540
5.519
5.317
5.315
4.145
4.100
3.899
3.888
3.571
1.901
1.887
1.849
1.794
1.791
1.772
1.682
1.671
1.435
1.268
1.261
1.214
1.213
1.210
1.170
1.160
1.138
1.131
1.090
0.976
0.967
0.966
0.937
0.914
0.873
0.621
0.090
0.066



Coupled Sulfone

178.44
145.51
135.09
133.12
129.92
129.21
129.13
129.09
129.07
128.94
128.32
127.43
124.67
82.20
79.67
79.52
79.29
78.86
77.21
77.03
76.85
76.29
76.19
76.11
75.86
75.80
75.70
72.41
62.16
62.10
61.17
40.36
40.33
38.69
38.18
33.19
33.09
32.88
32.64
29.72
27.59
27.21
26.16
26.02
25.97
25.91
20.55
18.46
18.37
18.28
18.18
18.07
17.99
16.02
15.98
15.43
15.29
6.93
6.92
5.00
3.87
4.16
4.18
4.28
4.35
4.43
4.58
4.70



```

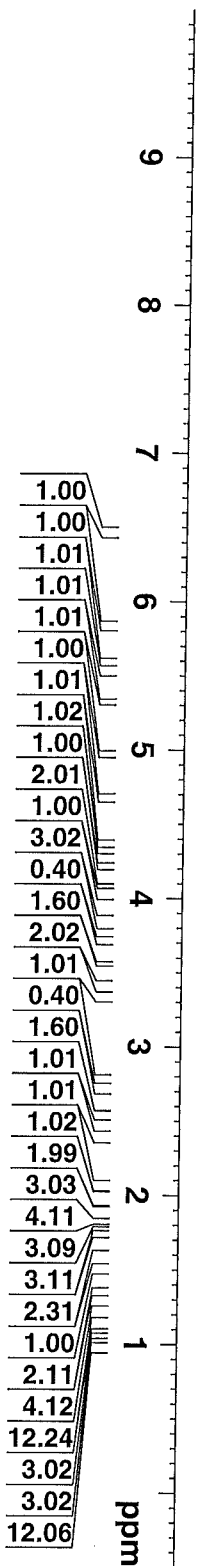
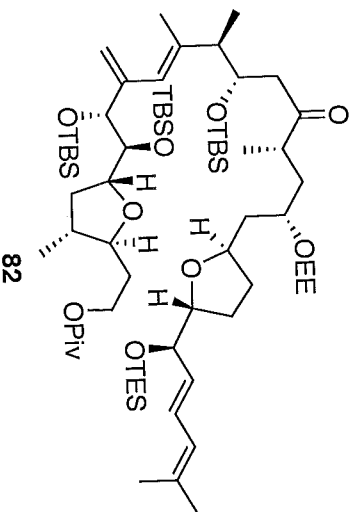
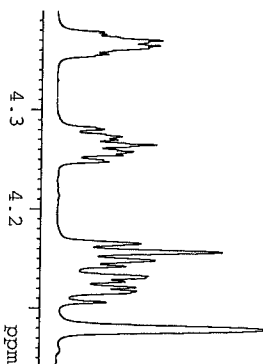
NAME SUM-XV-34-Coupled Sulfone
EXPNO 1
PROCNO 2
Date_ 20120412
Time 22:54
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 5120
DS 4
SME 41666.668 Hz
FIDRES 0.635783 Hz
AQ 0.7864820 sec
RG 203
DE 12.000 usec
TE 303.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 13

===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 4.50 dB
PL1W 38.14553833 W
SFO1 176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 65.00 usec
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL12W 33.59817505 W
PL13W 0.70196527 W
SFO2 700.1499406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
    
```

Ketone

7.2888
 5.842
 5.594
 5.320
 4.960
 4.669
 4.662
 4.157
 4.079
 3.933
 3.923
 3.647
 3.637
 3.524
 3.513
 3.336
 3.332
 1.884
 1.880
 1.873
 1.818
 1.793
 1.774
 1.665
 1.432
 1.298
 1.290
 1.205
 1.090
 1.080
 1.051
 1.041
 0.981
 0.969
 0.958
 0.908
 0.905
 0.904
 0.892
 0.623
 0.622
 0.612
 0.611
 0.081
 0.070
 0.023



1.00
 1.00
 1.01
 1.01
 1.01
 1.00
 1.01
 1.02
 1.00
 2.01
 1.00
 3.02
 0.40
 1.60
 2.02
 1.01
 0.40
 1.60
 1.01
 1.01
 1.02
 1.99
 3.03
 4.11
 3.09
 3.11
 2.31
 1.00
 2.11
 4.12
 12.24
 3.02
 3.02
 12.06

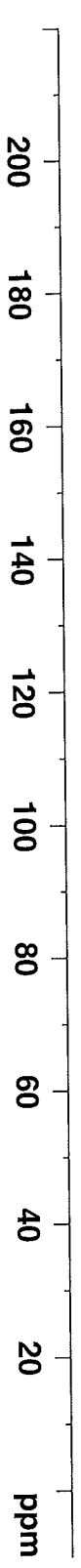
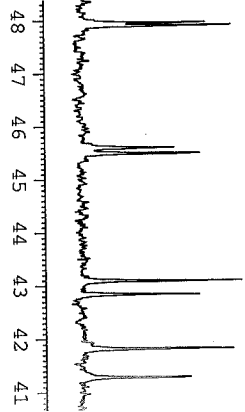
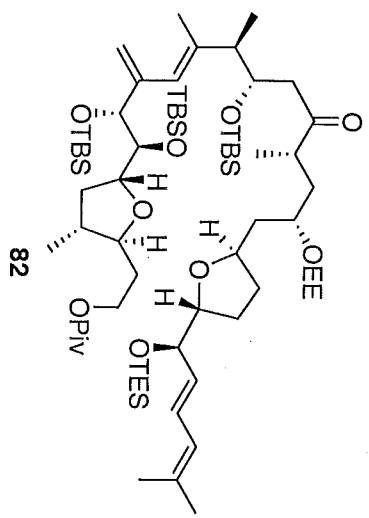
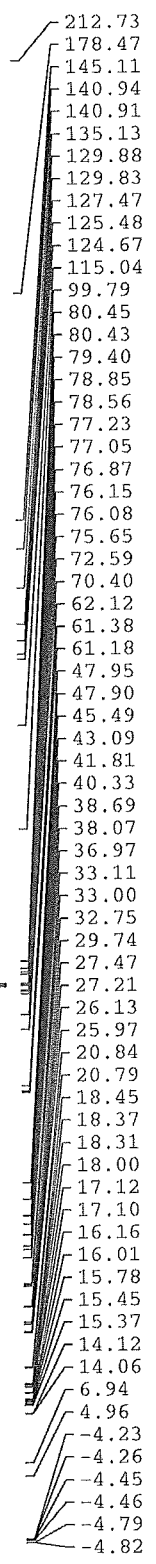
ppm

```

NAME          SUM-XIV-66-Ketone
EXPNO         1
PROCNO        1
Date_         20120223
Time          16.05
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            22.6
DW            42.000 usec
DE            6.50 usec
TE            298.3 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SF01         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

Ketone



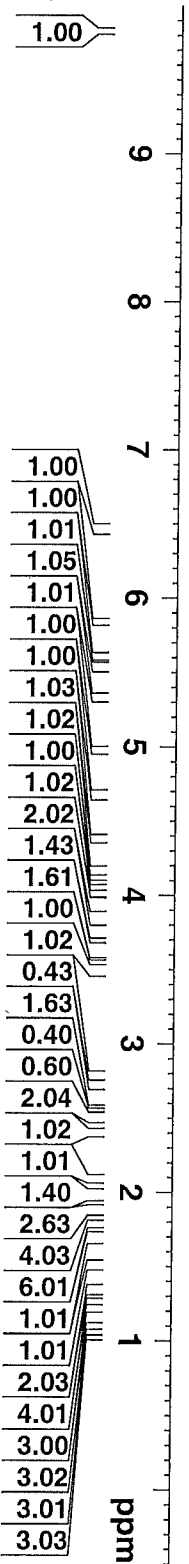
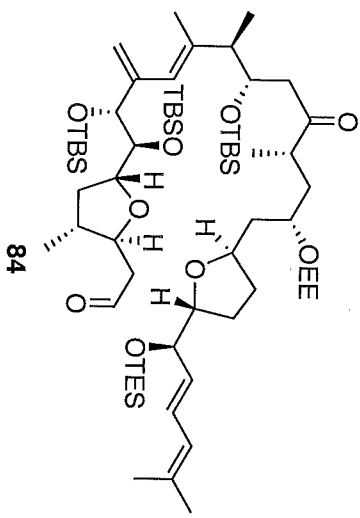
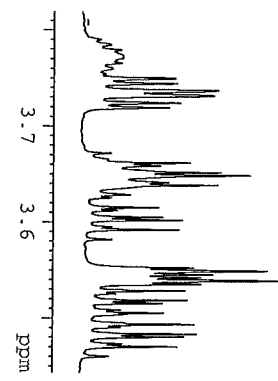
NAME SUM-XIV-66-Ketone
 EXPNO 2
 PROCNO 1
 Date_ 20120223
 Time 16:21
 INSTRUM spect
 PROBD 5 mm CPDCH 13C
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 386
 DS 4
 SWH 41666.668 Hz
 FIDRES 0.635783 Hz
 AQ 0.7864820 sec
 RG 203
 DW 12.000 usec
 DE 6.50 usec
 TE 298.3 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

==== CHANNEL F1 =====
 NUC1 13C
 P1 9.00 usec
 PL1 4.50 dB
 PL1W 38.14553833 W
 SFO1 176.0706238 MHz

==== CHANNEL F2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 65.00 usec
 PL2 -3.20 dB
 PL12 13.60 dB
 PL13 120.00 dB
 PL1W 33.59817505 W
 PL12W 0.70196527 W
 PL13W 0.00000000 W
 SFO2 700.1499406 MHz
 SI 32768
 SF 176.0521380 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Aldehyde

9.826	9.826
7.288	7.288
6.462	6.462
5.844	5.844
5.829	5.829
5.605	5.605
5.329	5.329
4.978	4.978
4.675	4.675
4.388	4.388
4.386	4.386
4.381	4.381
4.163	4.163
4.085	4.085
4.016	4.016
4.002	4.002
3.938	3.938
3.737	3.737
3.732	3.732
3.648	3.648
3.549	3.549
3.539	3.539
3.493	3.493
3.483	3.483
2.649	2.649
2.554	2.554
2.496	2.496
1.970	1.970
1.881	1.881
1.830	1.830
1.796	1.796
1.777	1.777
1.293	1.293
1.211	1.211
1.025	1.025
1.016	1.016
0.974	0.974
0.973	0.973
0.912	0.912
0.897	0.897
0.896	0.896
0.627	0.627
0.120	0.120
0.081	0.081
0.043	0.043
0.008	0.008

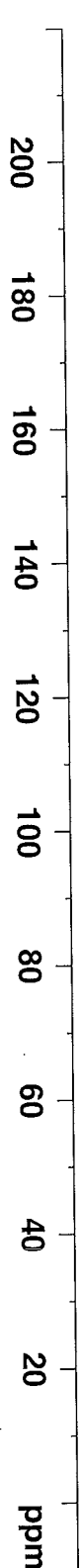
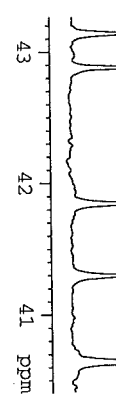
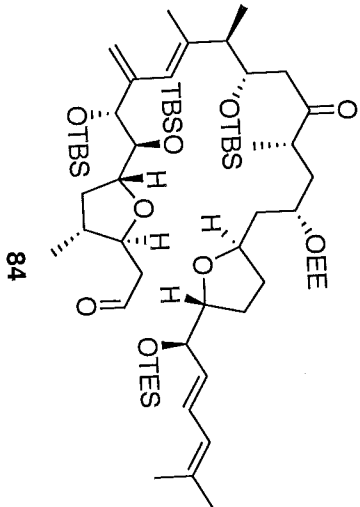
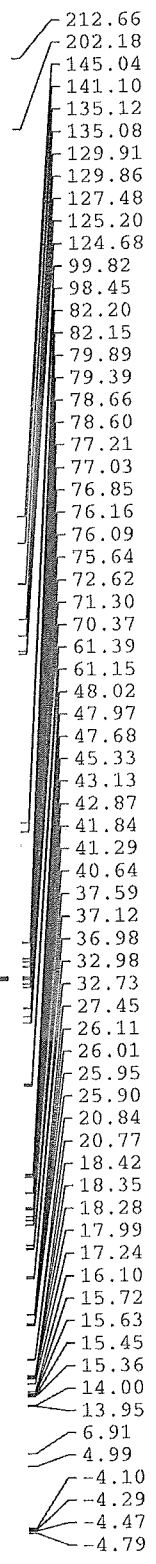


```

NAME          SUM-XV-36-Aldehyd.
EXPNO         1
PROCNO        1
Date_         20120414
Time          2.16
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            56
DS            2
SWH           11904.762 Hz
FIDRES       0.125003 Hz
AQ           3.9999621 sec
RG           22.6
DW           42.000 usec
DE           6.50 usec
TE           303.2 K
D1           2.00000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1          1H
P1           9.40 usec
PL1         -3.20 dB
PL1W        33.59817505 W
SFO1        700.1516910 MHz
SI          131072
SF          700.1471400 MHz
WDW          EM
SSB          0
LB          0.30 Hz
GB          0
PC          1.00
  
```

Aldehyde



```

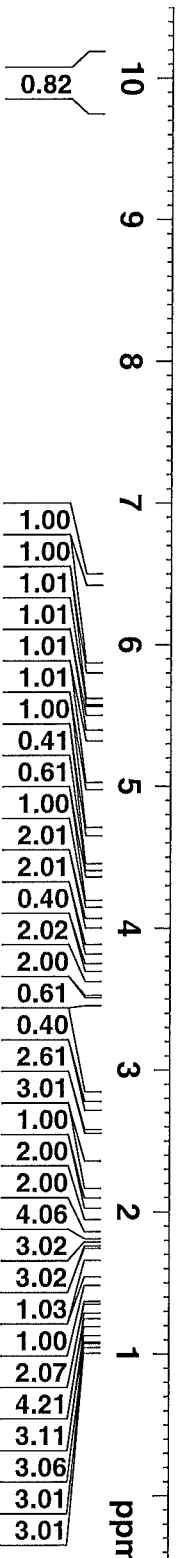
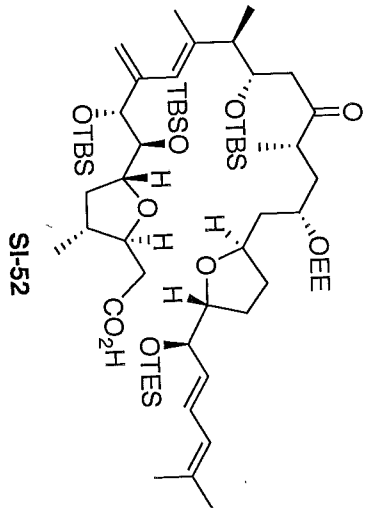
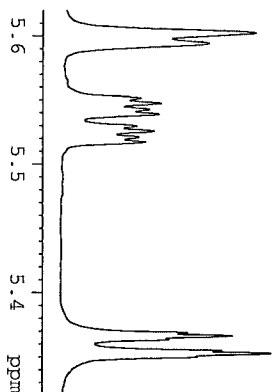
NAME          STM-XV-3-6-Aldehyd
EXPNO         2
PROCNO        1
Date_         20120414
Time         2.29
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS           10120
DS            4
SWH           41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           16.50 usec
TE           303.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          15

===== CHANNEL f1 =====
NUC1          13C
P1           9.00 usec
PL1          4.50 dB
PL1W         38.14553833 W
SFO1         176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```

Carboxylic Acid

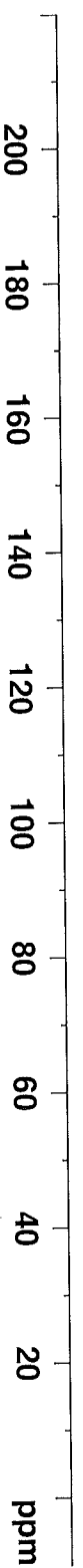
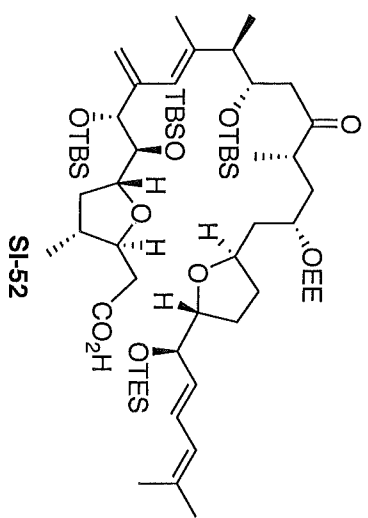
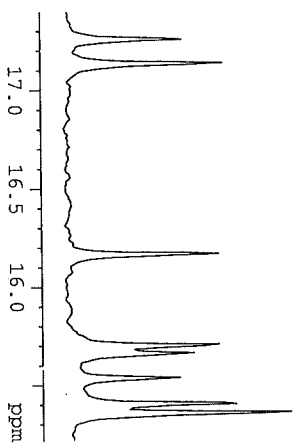
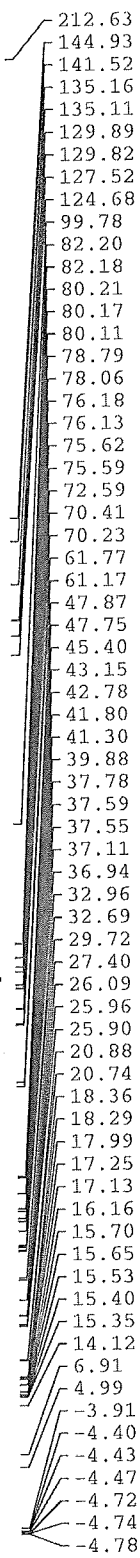
7.288
6.463
6.461
5.844
5.828
5.601
5.352
5.001
4.677
4.172
4.125
3.945
3.650
3.579
3.484
2.678
2.477
2.467
2.132
2.124
1.973
1.881
1.877
1.827
1.796
1.777
1.707
1.516
1.459
1.445
1.299
1.292
1.229
1.212
1.107
1.062
1.052
1.031
0.973
0.920
0.910
0.899
0.627
0.615
0.120
0.031



NAME SUM-XV-37-Acid
 EXPNO 1
 PROCNO 1
 Date_ 20120415
 Time 4.16
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zg30
 TD 95236
 SOLVENT CDCl3
 NS 72
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 22.6
 DW 42.000 usec
 DE 6.50 usec
 TE 303.2 K
 D1 2.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUC1 1H
 P1 9.40 usec
 PL1 -3.20 dB
 PL1W 33.59817505 W
 SF01 700.1516910 MHz
 SI 131072
 SF 700.1471400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Carboxylic Acid

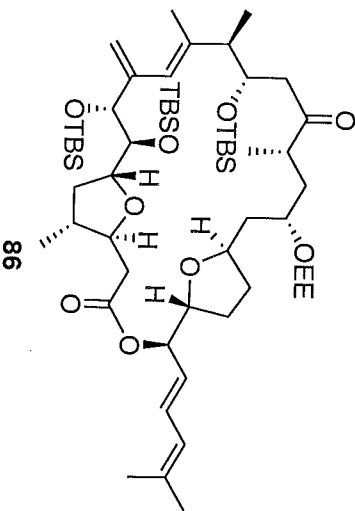


NAME	EXPNO	PROCNO	Date_	Time	INSTRUM	PROBHD	PULPROG	TD	SOLVENT	NS	DS	SWH	FIDRES	AQ	RG	DW	DE	TE	D1	D11	TD0
SUM-XV-37-Acid	2	1	20120415	4.30	spect	13C	zgpg30	65536	CDCl3	5720	4	41666.668	0.635783	0.7864820	203	12.000	16.50	303.2	2.00000000	0.03000000	15

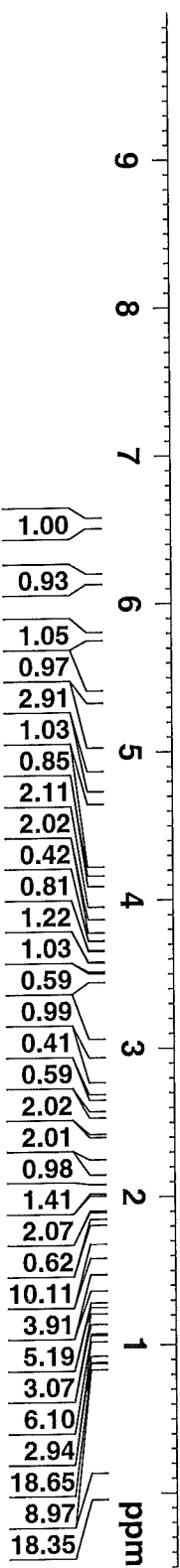
===== CHANNEL F1 =====	===== CHANNEL F2 =====
NUC1 13C	CPDPRG2 waltz16
P1 9.00 us	NUC2 1H
PL1 4.50 dB	PCPD2 65.00 us
PL1W 38.14553833 W	PL2 -3.20 dB
SFO1 176.0706238 MH	PL3 13.60 dB
	PL12 120.00 dB
	PL13 120.00 dB
	PL2W 33.59817505 W
	PL12W 0.70196527 W
	PL13W 0.00000000 W
	SFO2 700.1499406 MH
	SI 32768
	SF 176.0521380 MH
	WDMW EM
	SSB 0
	LB 3.00 Hz
	GB 0
	PC 1.40

Macrolactone

7.288
6.548
6.164
5.789
5.773
5.002
4.953
4.917
4.681
4.002
3.991
3.900
3.625
3.616
3.551
3.542
3.488
3.478
3.475
2.481
2.477
2.472
2.065
2.057
2.048
1.968
1.955
1.939
1.782
1.533
1.515
1.320
1.312
1.276
1.238
1.132
1.097
1.088
1.046
0.912
0.858
0.116
0.054
0.033
0.021
0.016



3.7
3.6
ppm



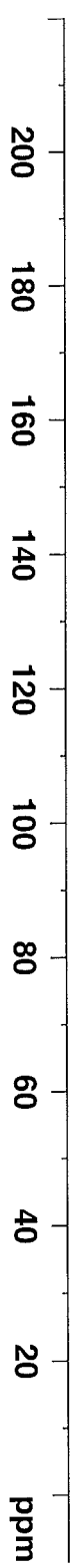
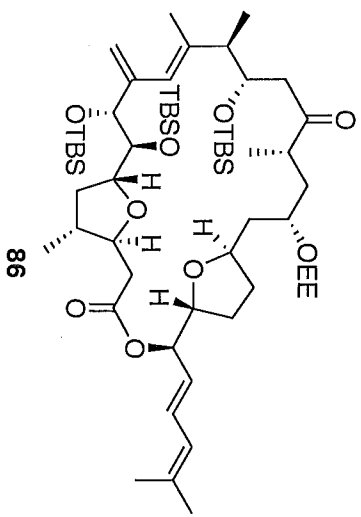
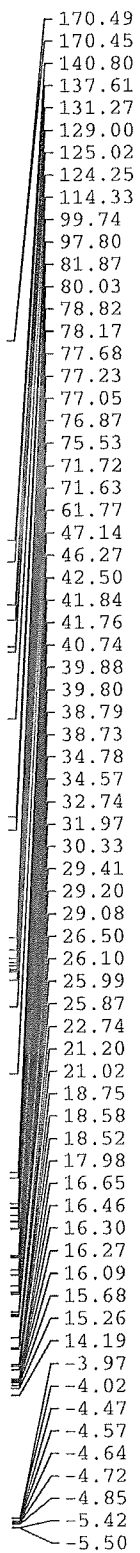
SUM-XIV-81-Macrolactonizatri

NAME	1
EXENO	1
PROCNO	20120218
Date	1.50
Time	1.50
INSTRUM	5 mm GPCCH 13C
PROBRD	spcct
PULPROG	zg30
TD	95236
SOLVENT	CDCl3
NS	100
DS	2
SWH	11904.762 Hz
FIDRES	0.125003 Hz
AQ	3.9999621 sec
RG	32
DW	42.000 usec
DE	6.50 usec
TE	298.5 K
D1	2.00000000 sec
TD0	1

CHANNEL F1

NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PL1W	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Macrolactone



```

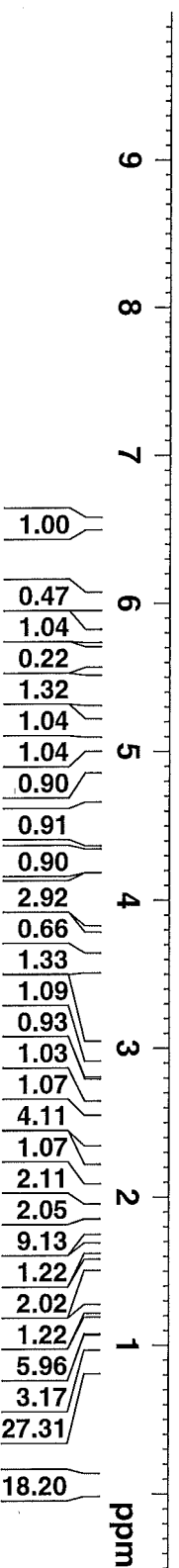
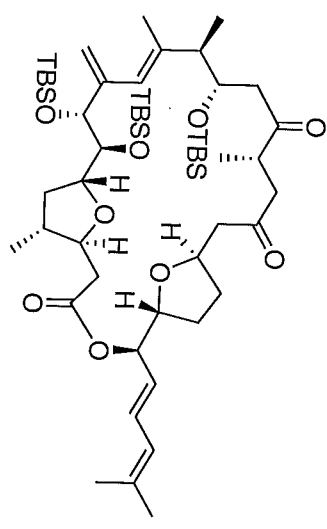
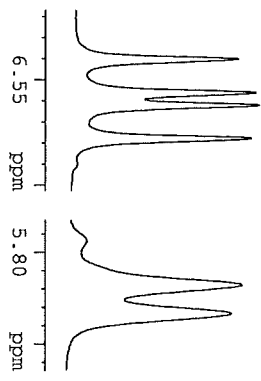
NAME          SDW-XV-09-Macrolacto
EXPNO        2
PROCNO       1
Date_        20120328
Time         23.01
INSTRUM      spect
PROBHD       5 mm CPDCH 13C
PULPROG      zgpg30
TD           65536
SOLVENT      CDCl3
NS           2955
DS           4
SWMH         41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           16.50 usec
TE           298.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          1

===== CHANNEL f1 =====
NUC1         13C
P1           9.00 usec
PL1         4.50 dB
PL1W        38.14553833 W
SFO1        176.0706238 MHz

===== CHANNEL f2 =====
CPPPRG2     waltz16
NUC2         1H
PCPD2       65.00 usec
PL2         -3.20 dB
PL12        13.60 dB
PL13        120.00 dB
PL1W        33.59817505 W
PL12W       0.70196527 W
PL13W       0.00000000 W
SFO2        700.1499406 MHz
SI          32768
SF          176.0521380 MHz
WDW         EM
SSB         0
LB          3.00 Hz
GB          0
PC          1.40
  
```

Diketone

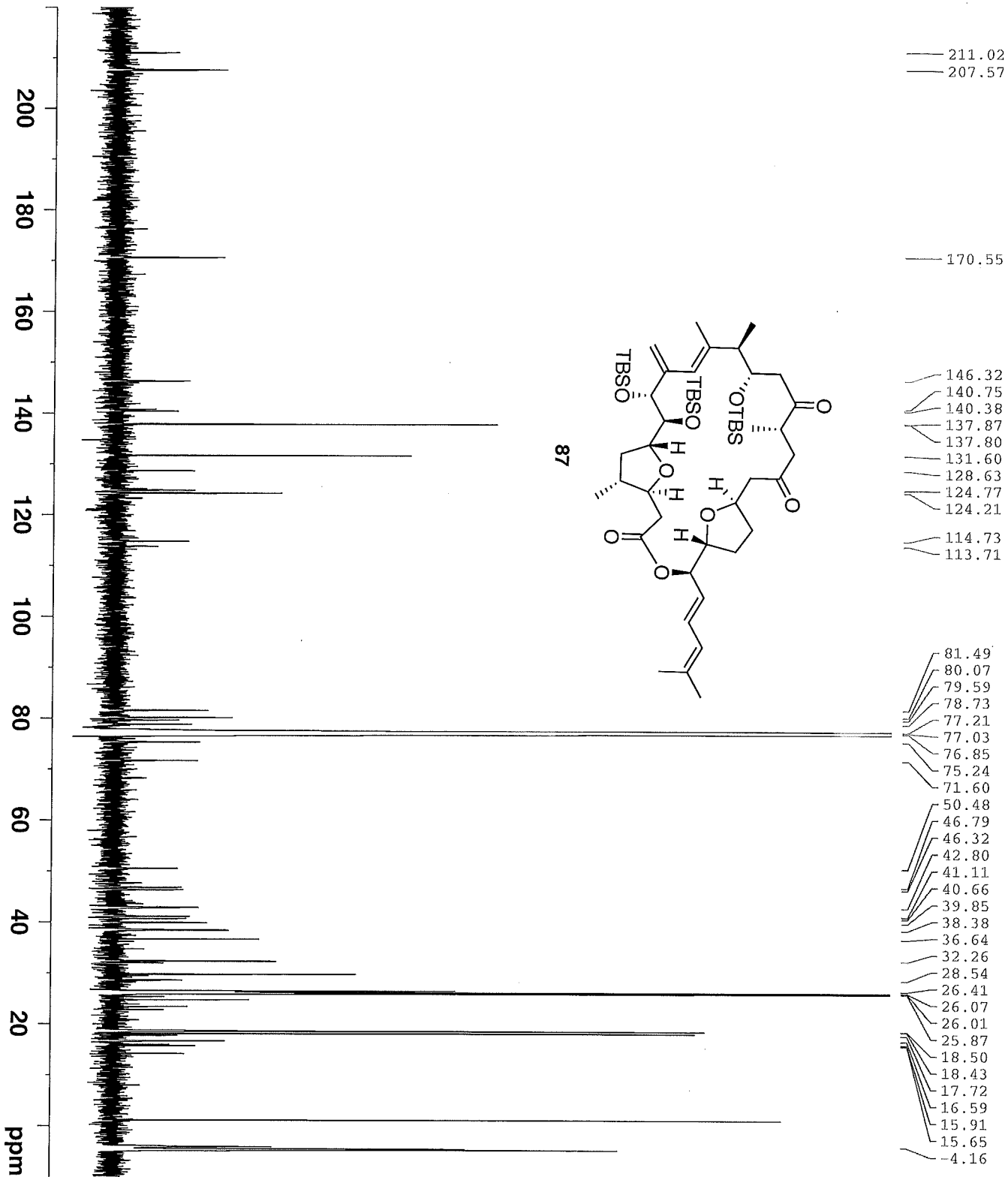
7.288
6.559
6.544
6.538
6.522
5.782
5.766
5.129
5.051
4.953
4.065
3.960
3.552
2.984
2.849
2.622
2.617
2.601
2.597
2.433
2.005
1.909
1.901
1.892
1.799
1.783
1.774
1.645
1.641
1.639
1.635
1.632
1.568
1.563
1.556
1.551
1.538
1.148
1.116
1.106
1.036
0.907
0.095
0.086
0.065
0.035



```

NAME          SUM-XV-27-Diketone
EXPNO         1
PROCNO        1
Date_         20120408
Time_         1.41
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            320
DS            2
SWMH          11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            25.4
DW            42.000 usec
DE            6.50 usec
TE            303.2 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHZ
SI           131072
SF           700.1471400 MHZ
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

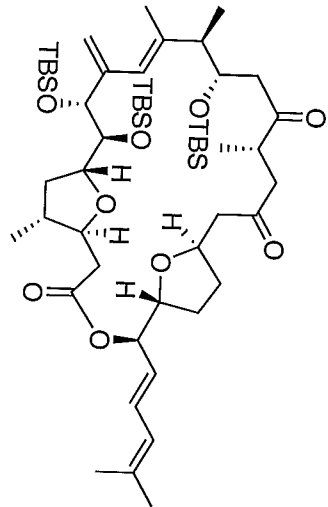


211.02
207.57

170.55

146.32
140.75
140.38
137.87
137.80
131.60
128.63
124.77
124.21
114.73
113.71

81.49
80.07
79.59
78.73
77.21
77.03
76.85
75.24
71.60
50.48
46.79
46.32
42.80
41.11
40.66
39.85
38.38
36.64
32.26
28.54
26.41
26.07
26.01
25.87
18.50
18.43
17.72
16.59
15.91
15.65
4.16



```

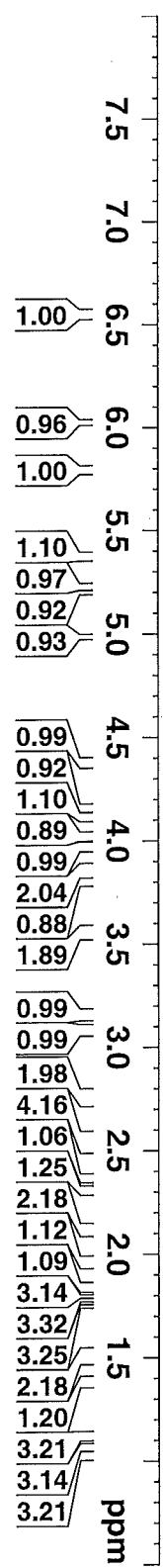
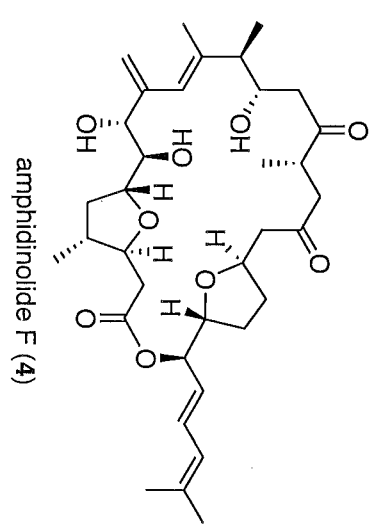
NAME          SUM-XV-15-Diketone
EXPNO         5
PROCNO        999
Date_         20120330
Time          1.44
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            11000
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1W         33.59817505 W
PL12W        0.701965227 W
PL13W        0.00000000 W
SFO2          700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
  
```


Amphidinolide F

6.549
6.533
6.025
5.229
5.201
5.199
4.988
4.122
4.111
3.845
3.841
3.104
3.079
2.772
2.759
2.748
2.737
2.725
2.580
2.576
2.561
2.558
2.548
2.533
2.528
2.522
2.518
2.374
2.319
2.308
2.131
2.122
2.113
1.796
1.781
1.750
1.748
1.520
1.502
1.490
1.126
1.116
1.067
1.057
1.030
1.020



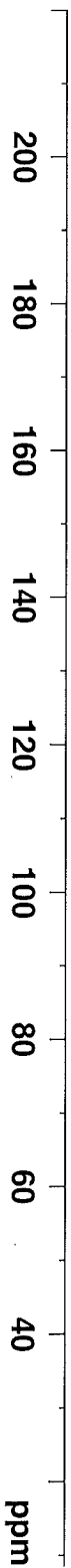
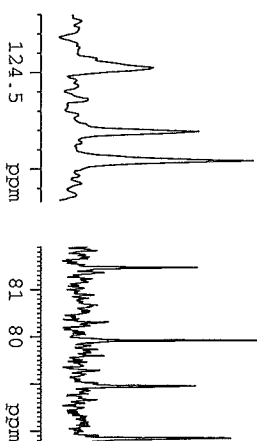
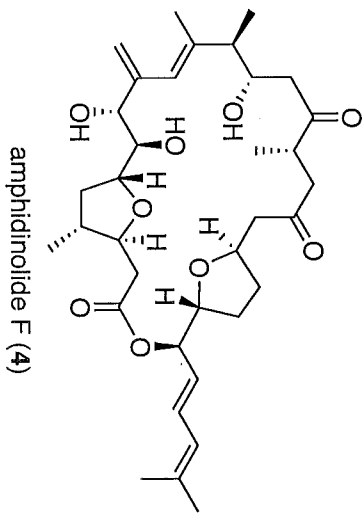
```

NAME          SUM-XV-40-Amphidinolide
EXPNO        1
PROCNO       1
Date_        20120417
Time         23.44
INSTRUM      spect
PROBHD       5 mm CPDCH 13C
PULPROG      zg30
TD           95236
SOLVENT      CDCl3
NS           320
DS           2
SWH          11904.762 Hz
FIDRES      0.125003 Hz
AQ          3.9999621 sec
RG          25.4
DM          42.000 usec
DE          6.50 usec
TE          303.2 K
D1          2.00000000 sec
TD0         1

===== CHANNEL f1 =====
NUC1         1H
P1          9.40 usec
PL1         -3.20 dB
PL1W        33.59817505 W
SFO1        700.1516910 MHz
SI          131072
SF          700.1471400 MHz
WDW         EM
SSB         0
LB          0.30 Hz
GB          0
PC          1.00
  
```

Amphidinolide F

- 213.77
- 207.77
- 171.22
- 144.45
- 140.04
- 138.29
- 132.06
- 124.52
- 124.19
- 124.04
- 116.11
- 81.45
- 79.90
- 78.94
- 77.84
- 76.51
- 75.01
- 70.62
- 49.38
- 48.57
- 46.03
- 45.55
- 42.79
- 39.79
- 38.70
- 36.77
- 31.98
- 28.43
- 26.08
- 18.51
- 16.24
- 15.53
- 15.40



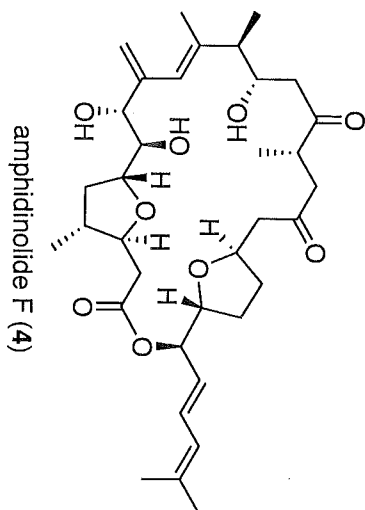
```

NAME          SDW-XV-40-Amphidinolide
EXPNO         1
PROCNO        1
Date_         20120418
Time          1.39
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            15028
DS            4
SWH           41666.668 Hz
FIDRES       0.635783 Hz
AQ           0.7864820 sec
RG           203
DW           12.000 usec
DE           16.50 usec
TE           303.2 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0          75

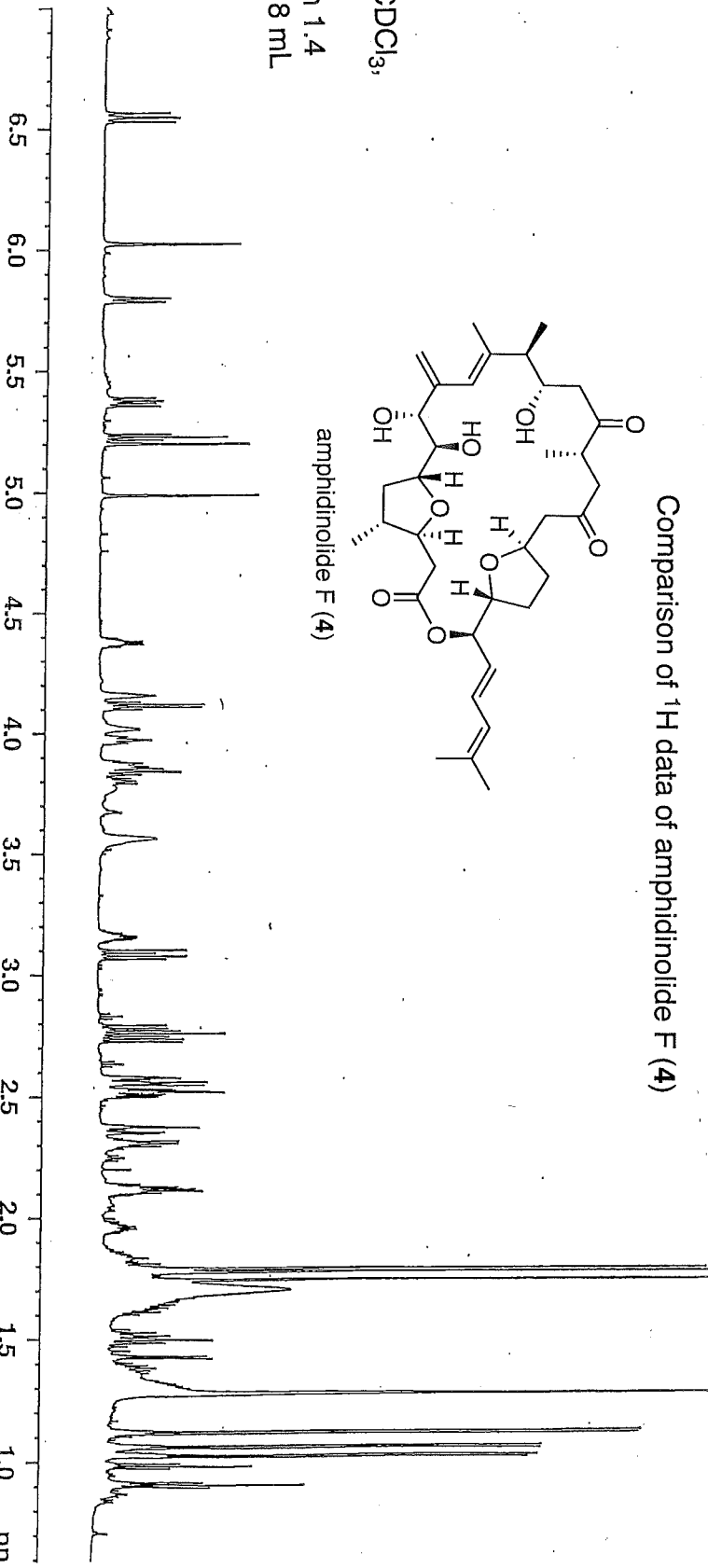
===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1          4.50 dB
PL1W         38.14553833 W
SFO1         176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0 Hz
LB           3.00 Hz
GB           0
PC           1.40
  
```

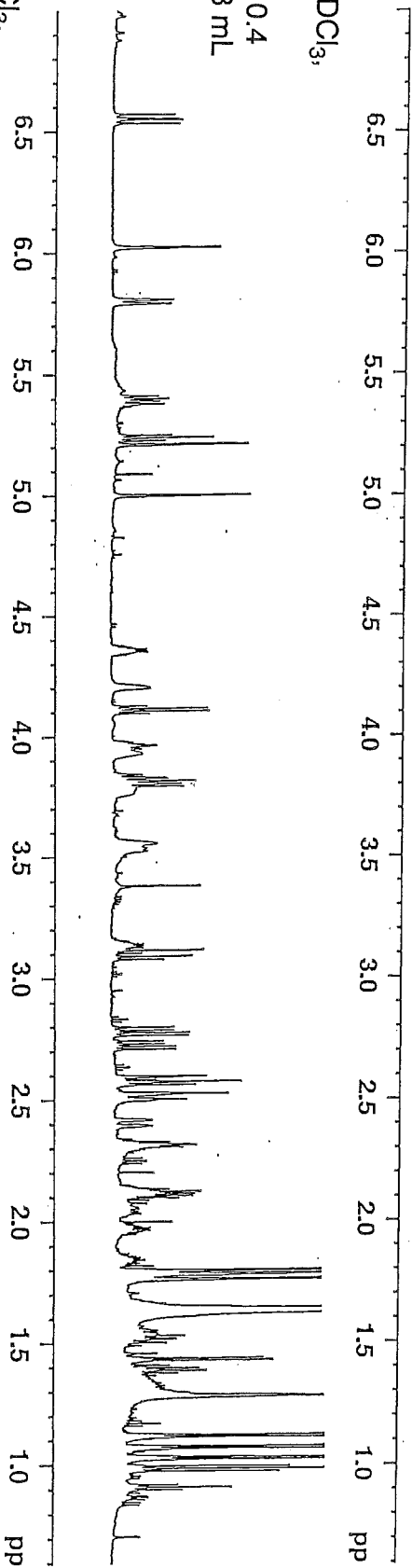
Comparison of ^1H data of amphidinolide F (4)



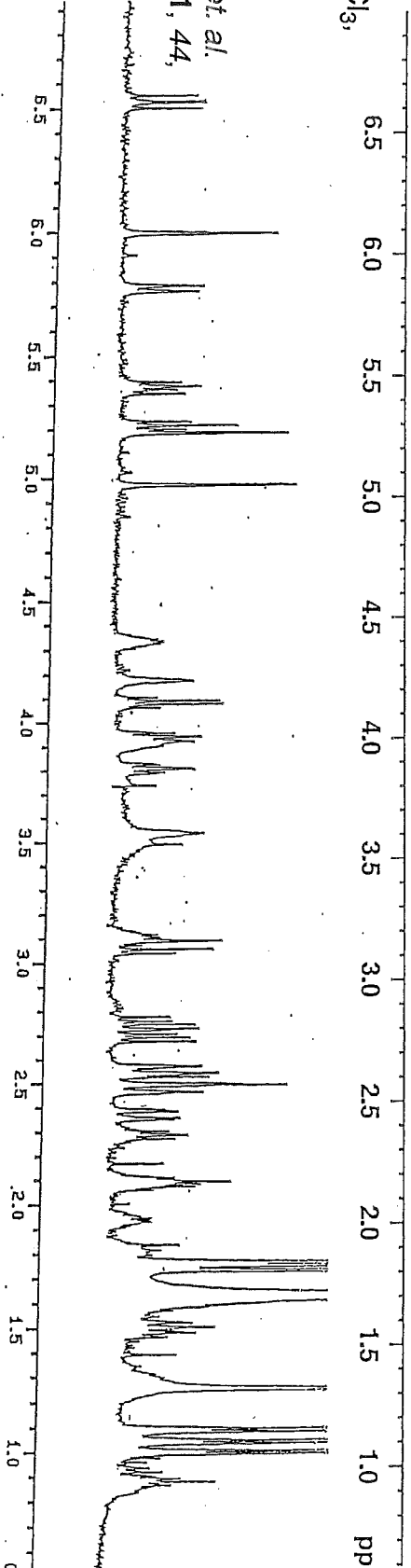
Synthetic 4 (CDCl_3 ,
700 MHz,
Concentration 1.4
mg of 4 in 0.18 mL
 CDCl_3).



Synthetic 4 (CDCl_3 ,
700 MHz,
Concentration 0.4
mg of 4 in 0.18 mL
 CDCl_3).



Natural 4 (CDCl_3 ,
500 MHz,
concentration
unknown)
Kobayashi, J. *et al.*
J. Antibiot. 1991, 44,
1259-1261.



Comparison of ^{13}C data of amphidinolide F (**4**)

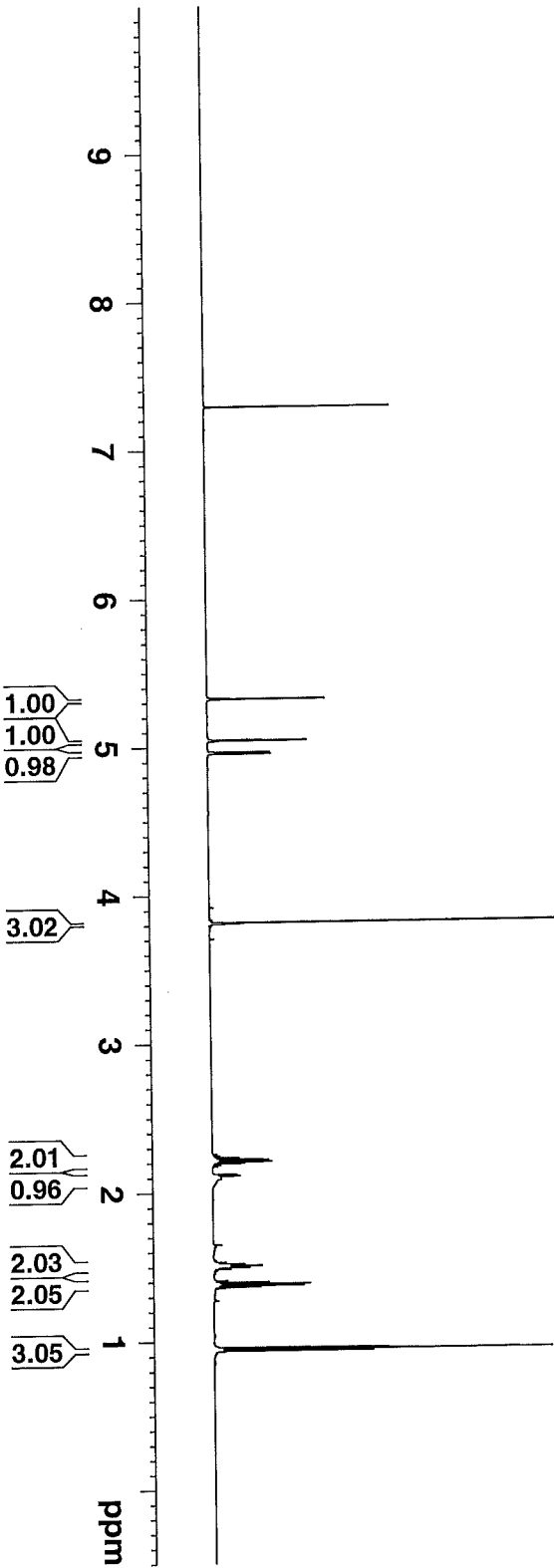
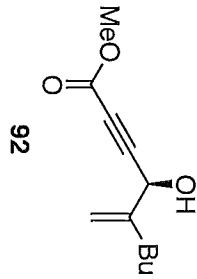
No.	Synthetic 4 (167 MHz, CDCl_3^{a})	Nature 4 ^b (125 MHz, CDCl_3)
1	171.22	171.16
2	38.70	38.65
3	81.45	81.26
4	39.79	39.67
5	36.77	36.81
6	78.94	79.08
7	76.51	76.71
8	76.51	76.71
9	144.45	144.37
10	124.52	124.62
11	140.04	140.00
12	49.38	49.46
13	70.62	70.50
14	45.55	45.65
15	213.77	213.58
16	42.79	42.93
17	46.03	45.81
18	207.77	207.47
19	48.57	48.45
20	75.01	74.82
21	31.98	31.84
22	28.43	28.46
23	79.90	79.87
24	77.84	77.93
25	124.04	123.97
26	132.06	132.09
27	124.19	124.06
28	138.29	138.25
29	26.08	26.00
30	18.51	18.43
31	15.53	15.39
32	116.11	116.16
33	13.77	13.94
34	15.40	15.29
35	16.24	16.20

^a Concentration 1.4 mg of **4** in 0.18 mL CDCl_3 . ^b Kobayashi, J.; Tsuda, M.; Ishibashi, M.; Shigemori, H.; Yamasu, T.; Hirota, H.; Sasaki, T. *J. Antibiot.* **1991**, *44*, 1259-1261.

Properyl Alcohol

7.288

- 5.327
- 5.047
- 4.967
- 4.958
- 3.816
- 2.257
- 2.246
- 2.235
- 2.223
- 2.212
- 2.200
- 2.189
- 2.178
- 2.125
- 2.115
- 1.534
- 1.530
- 1.524
- 1.520
- 1.512
- 1.509
- 1.508
- 1.502
- 1.500
- 1.497
- 1.490
- 1.487
- 1.410



SUM-KV-88-Properyl Alcoh

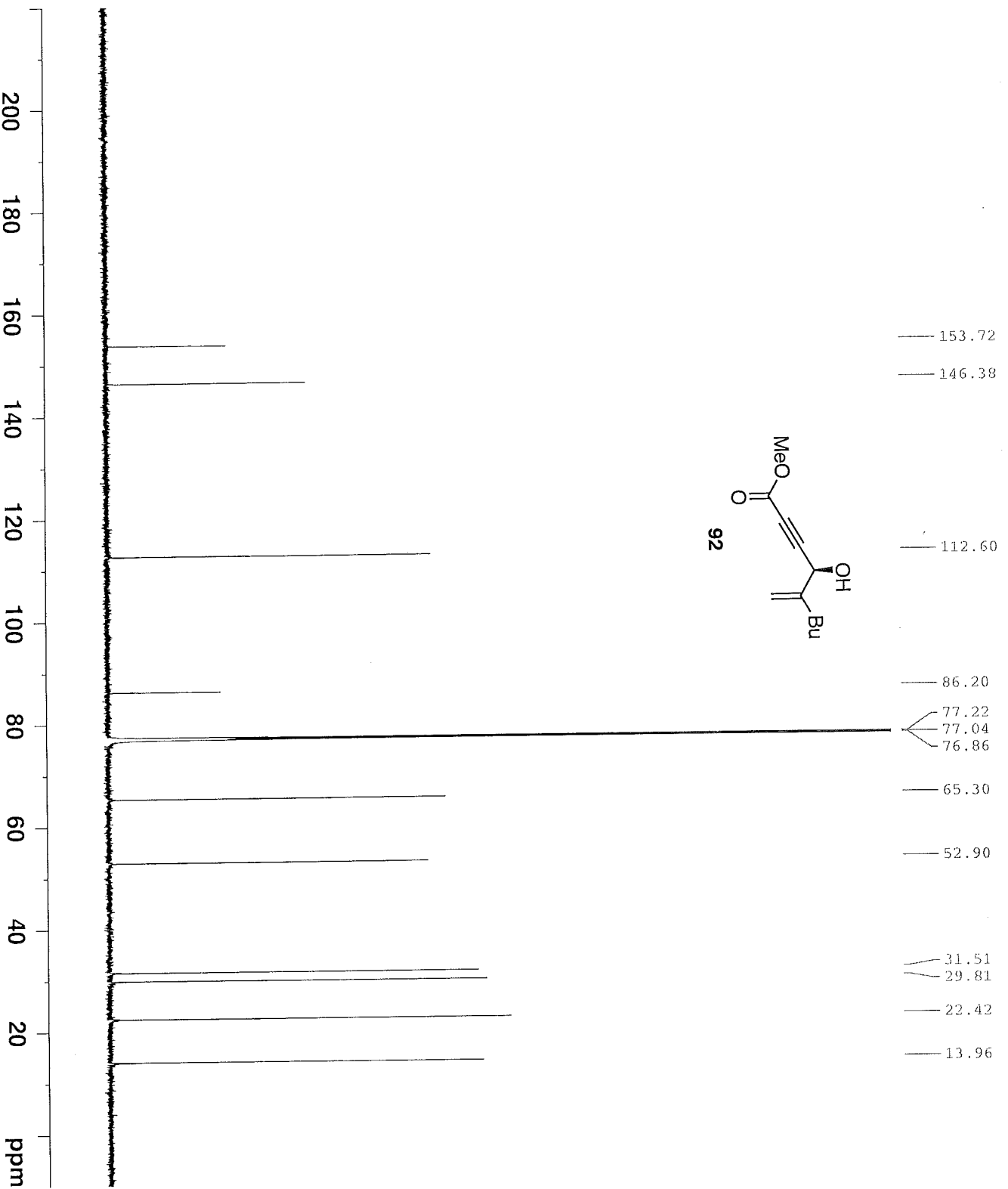
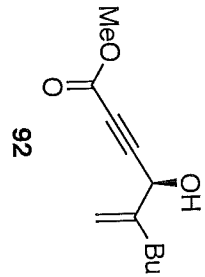
NAME	1
EXENO	1
PROONO	20120728
Date	23.23
Time	23.23
INSTRUM	5 mm CPDCH 13C
PROBHD	Z930
PULPROG	95236
TD	17
SOLVENT	CDCl3
NS	2
DS	2
SWH	11904.762 Hz
FIDRES	0.125003 Hz
AQ	3.9999621 sec
RG	25.4
DE	42.000 usec
TE	295.4 K
TD0	2.00000000 sec
TD1	1

==== CHANNEL F1 =====

NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PL1W	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Properyl Alcohol

SUN-XV-88-Properyl Alcoh



153.72
146.38
112.60
86.20
77.22
77.04
76.86
65.30
52.90
31.51
29.81
22.42
13.96

```

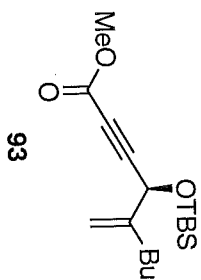
NAME          SUN-XV-88-Properyl Alcoh
EXPNO         2
PROCNO        1
Date_         20120728
Time         23.27
INSTRUM       5 mm CPDCH 13C
PROBHD        zgpg30
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            88
DS            4
SWH           41666.668 Hz
FIDRES        0.835783 Hz
AQ            0.7864820 sec
RG            203
DE            12.000 usec
TE            295.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

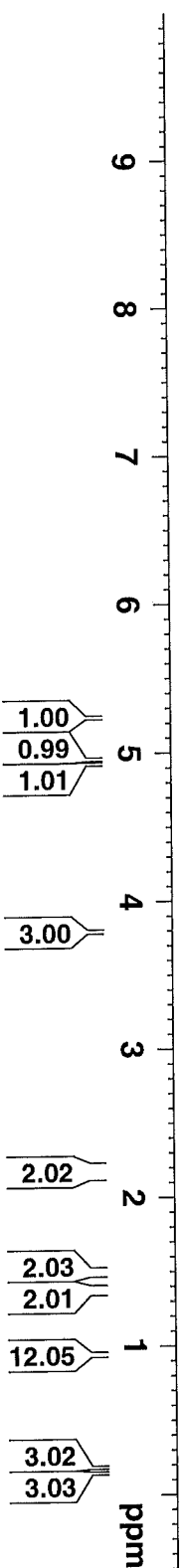
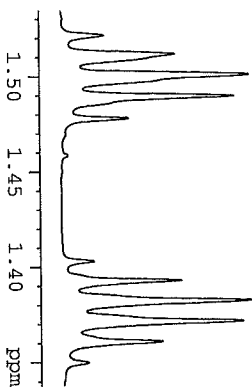
===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCSPD2       65.00 usec
P2           -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2         700.1439406 MHz
SI           32768
SE           176.0521380 MHz
WDW           EM
SSB           0
LB           3.00 Hz
GB           0
PC           1.40
    
```

TBS Ether

7.288



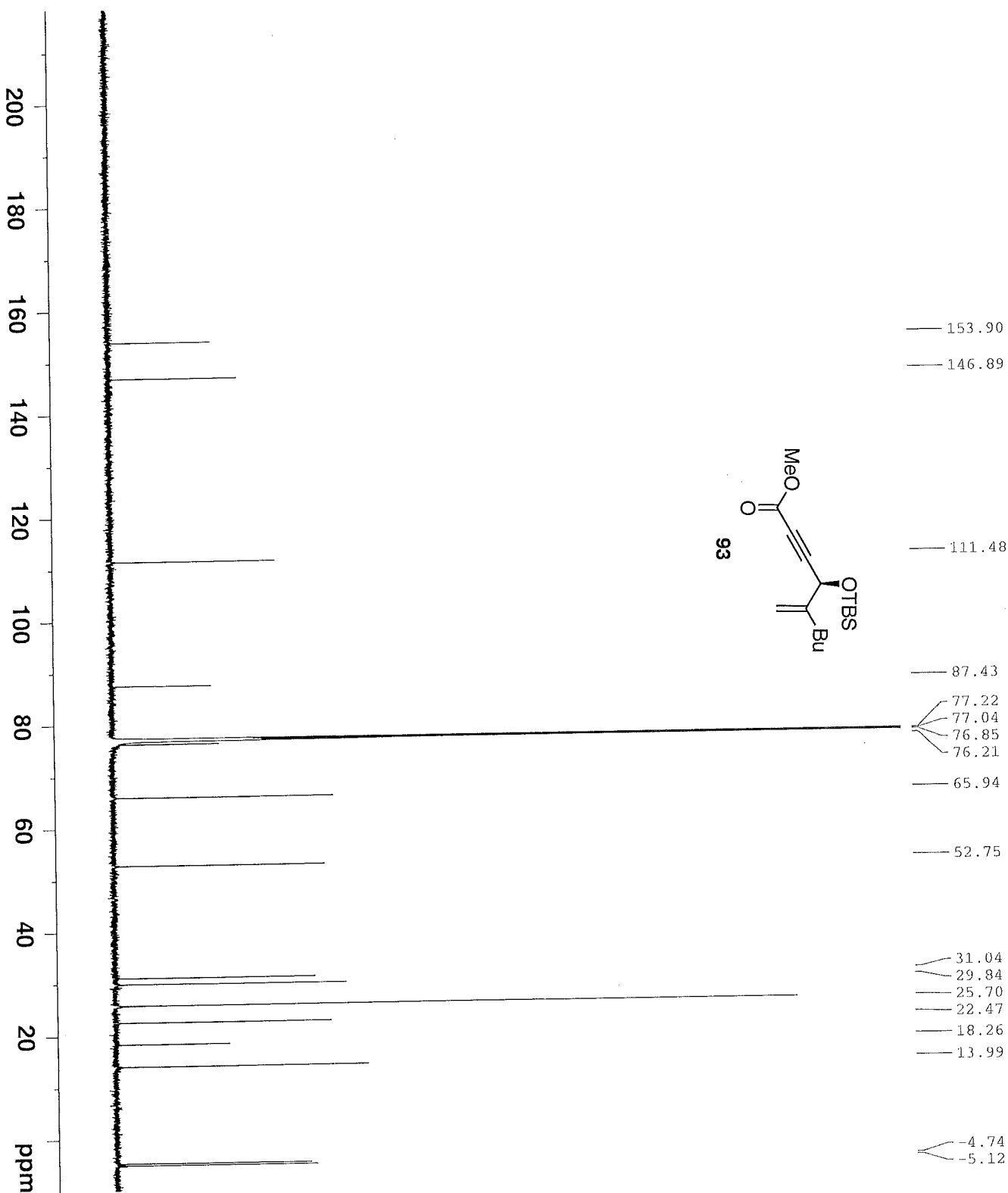
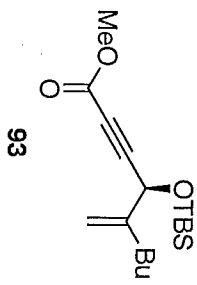
- 5.243
- 4.960
- 4.931
- 3.799
- 2.227
- 2.216
- 2.204
- 2.201
- 2.193
- 2.182
- 2.175
- 2.164
- 2.153
- 2.142
- 2.131
- 1.521
- 1.511
- 1.500
- 1.489
- 1.477
- 1.403
- 1.392
- 1.381
- 1.371
- 1.360
- 1.350



NAME	SUM-XV-93-TBS Eth
EXPNO	1
PROCNO	1
Date_	20120729
Time	23.02
INSTRUM	spect
PROBHD	5 mm CPDCH 13C
PULPROG	zg30
TD	95236
SOLVENT	CDCl3
NS	11
DS	2
SWH	11904.762 Hz
FIDRES	0.125003 Hz
AQ	3.9999621 sec
RG	25.4
DW	42.000 usec
DE	6.50 usec
TE	295.3 K
D1	2.0000000 sec
TD0	1

===== CHANNEL f1 =====	
NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PL1W	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

TBS Ether



- 153.90
- 146.89
- 111.48
- 87.43
- 77.22
- 77.04
- 76.85
- 76.21
- 65.94
- 52.75
- 31.04
- 29.84
- 25.70
- 22.47
- 18.26
- 13.99
- 4.74
- 5.12

```

NAME          SUM-XV-93-TBS  E-1a
EXPNO         2
PROCNO        1
Date_         20120729
Time          23.07
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            111
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            295.3 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1
  
```

```

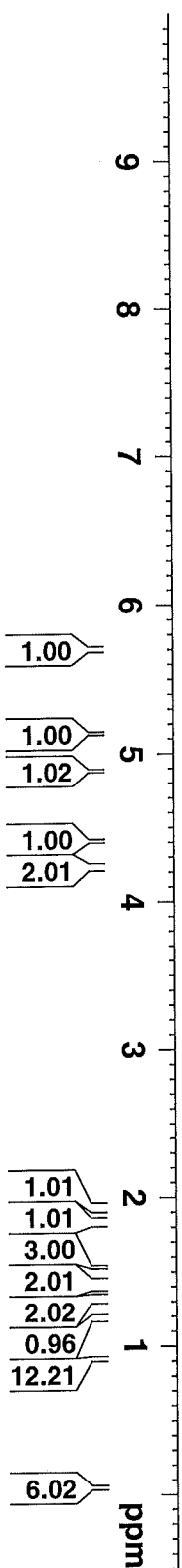
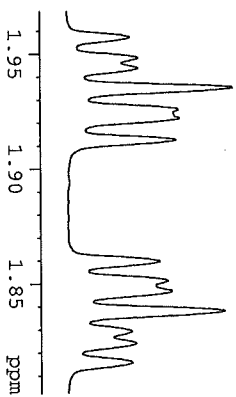
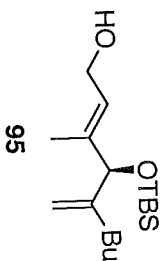
===== CHANNEL F1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1         176.0697436 MHz
  
```

```

===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL12W        33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2         700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB           0
LB           3.00 Hz
GB           0
PC           1.40
  
```


Alcohol

- 7.288
- 5.718
- 5.716
- 5.714
- 5.708
- 5.707
- 5.705
- 5.699
- 5.697
- 5.695
- 5.141
- 5.140
- 4.890
- 4.413
- 4.243
- 4.235
- 4.227
- 1.935
- 1.925
- 1.922
- 1.847
- 1.838
- 1.537
- 1.425
- 1.423
- 1.416
- 1.412
- 1.404
- 1.342
- 1.337
- 1.331
- 1.326
- 1.322
- 1.320
- 1.316
- 1.315
- 1.204
- 1.196
- 1.188
- 0.926
- 0.922
- 0.918
- 0.916
- 0.906
- 0.055
- 0.047

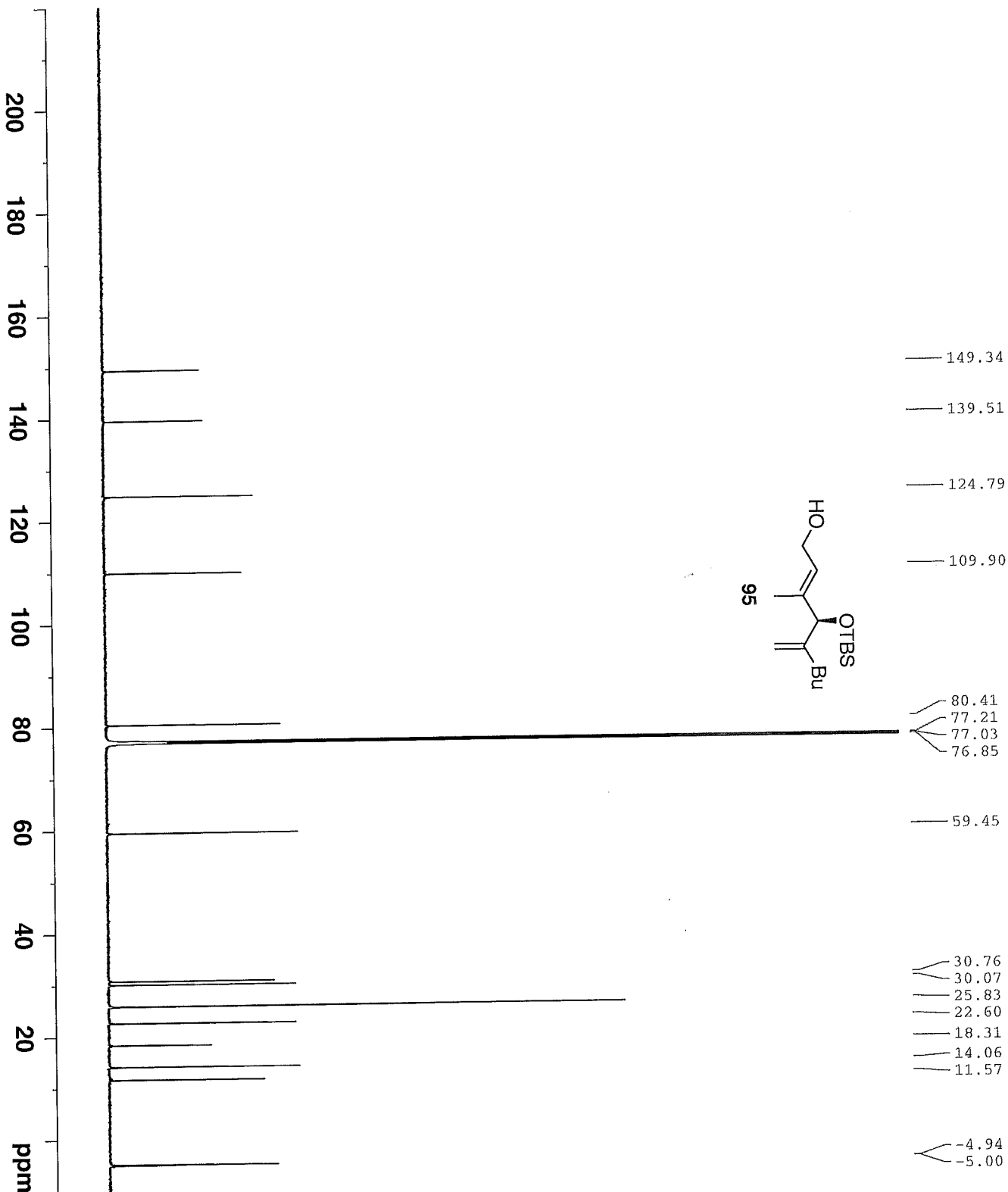
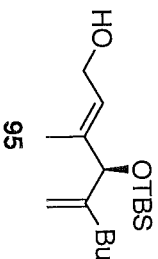


```

NAME          SUM-XVI-47-Alcohol:
EXPNO         2
PROCNO        1
Date_         20120906
Time         11.39
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            25.4
DW            42.000 usec
DE            6.50 usec
TE            296.3 K
D1            2.00000000 sec
TD0           1
===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00

```

Alcohol



- 149.34
- 139.51
- 124.79
- 109.90
- 80.41
- 77.21
- 77.03
- 76.85
- 59.45
- 30.76
- 30.07
- 25.83
- 22.60
- 18.31
- 14.06
- 11.57
- 4.94
- 5.00

```

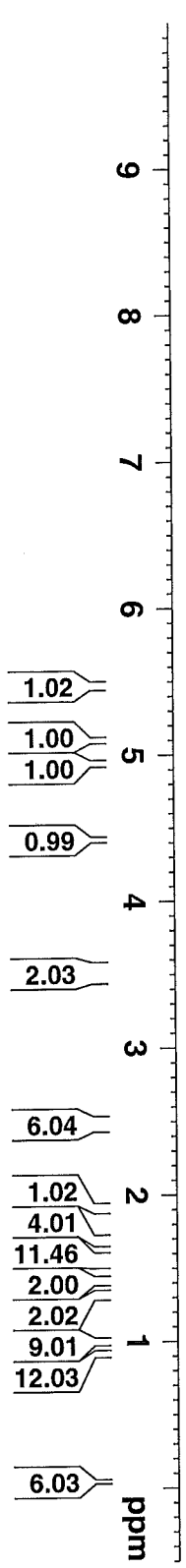
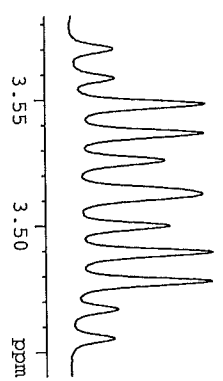
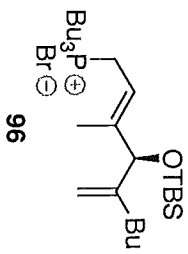
NAME          SUM-XVI-47-Alcohol:
EXPNO         3
PROCNO        1
Date_         20120906
Time          11.53
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD             65536
SOLVENT       CDCl3
NS            220
DS             4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 se
RG            203
DW            12.000 us
DE            16.50 us
TE            296.2 K
D1            2.00000000 se
D11           0.03000000 se
PD0           1

===== CHANNEL F1 =====
NUC1          13C
P1            9.00 us
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

===== CHANNEL F2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 us
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SFO2          700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW           EM
SSB           0
LB           3.00 Hz
GB           0
PC           1.40
  
```

Phosphonium Bromide

5.101
4.949
4.947
4.433
4.428
3.548
3.489
3.478
2.503
2.494
2.489
2.485
2.476
2.470
1.687
1.683
1.573
1.567
1.563
1.558
1.553
1.551
1.547
1.537
1.426
1.422
1.419
1.416
1.413
1.411
1.409
1.406
1.337
1.326
1.315
1.305
1.008
0.998
0.988
0.935
0.925
0.921
0.916
0.912
0.051
0.041



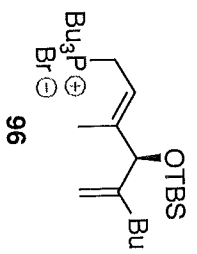
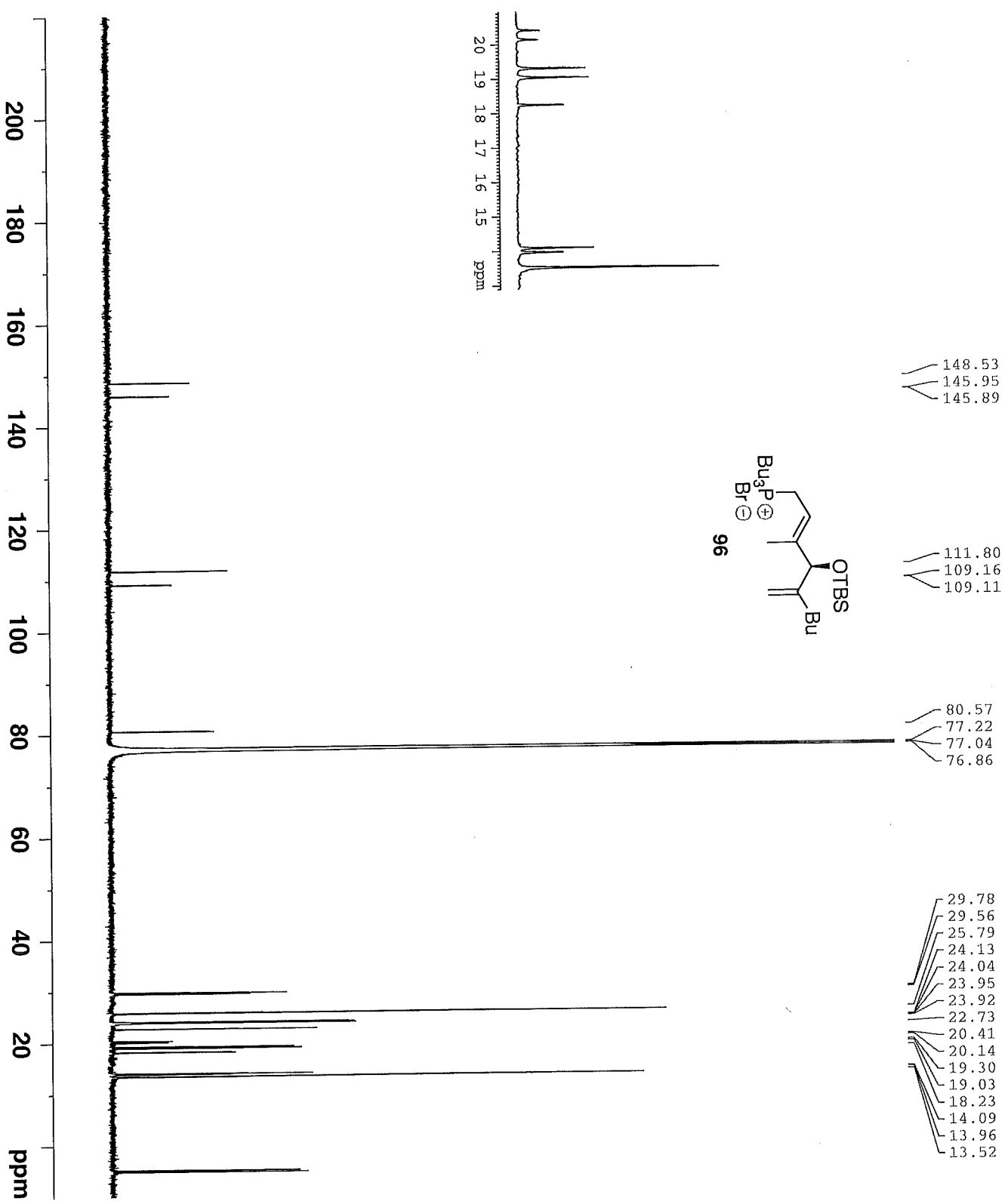
SUN-XVI-37-Phosphonium Bromi

NAME	1
EXPNO	1
PROCNO	1
Date_	20120827
Time	18.46
INSTRUM	spec
PROBHD	5 mm CPDCH 13C
PULPROG	zg30
TD	95236
SOLVENT	CDCl3
DS	32
NS	2
SWH	11904.762 Hz
FIDRES	0.125003 Hz
AQ	3.9999921 sec
RG	22.6
DW	42.000 usec
DE	6.50 usec
TE	296.3 K
TD0	2.00000000 sec
TD1	1

==== CHANNEL f1 =====

NUC1	1H
P1	9.40 usec
PL1	-3.20 dB
PL1W	33.59817505 W
SFO1	700.1516910 MHz
SI	131072
SF	700.1471400 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

Phosphonium Bromide



- 148.53
- 145.95
- 145.89
- 111.80
- 109.16
- 109.11
- 80.57
- 77.22
- 77.04
- 76.86
- 29.78
- 29.56
- 25.79
- 24.13
- 24.04
- 23.95
- 23.92
- 22.73
- 20.41
- 20.14
- 19.30
- 19.03
- 18.23
- 14.09
- 13.96
- 13.52

NAME SUN-XVI-37-Phosphonium Bromide

EXPNO 2

PROCNO 1

Date_ 20120827

Time 18.57

INSTRUM spect

PROBHD 5 mm CPDCH 13C

PULPROG zgpg30

TD 65536

SOLVENT CDCl3

NS 2487

DS 4

SVH 41665.668 Hz

FIDRES 0.635783 Hz

AQ 0.7864920 sec

RG 203

DW 12.000 usec

DE 16.50 usec

TE 296.2 K

D1 2.0000000 sec

D11 0.03000000 sec

TD0 1

===== CHANNEL F1 =====

NUC1 ¹³C

P1 9.00 usec

PL 4.50 dB

PL1W 38.14553833 W

SFO1 176.0706238 MHz

===== CHANNEL F2 =====

CPDPRG2 waltz16

NUC2 ¹H

PCPD2 65.00 usec

F1Z -3.20 dB

F1L2 13.60 dB

F1L3 120.00 dB

F1LW 33.59827505 W

PL1Z 0.7018527 W

PL1W 0.0000000 W

SFO2 700.1499406 MHz

SI 327.68

SF 176.0521380 MHz

WDW EM

SSB 0

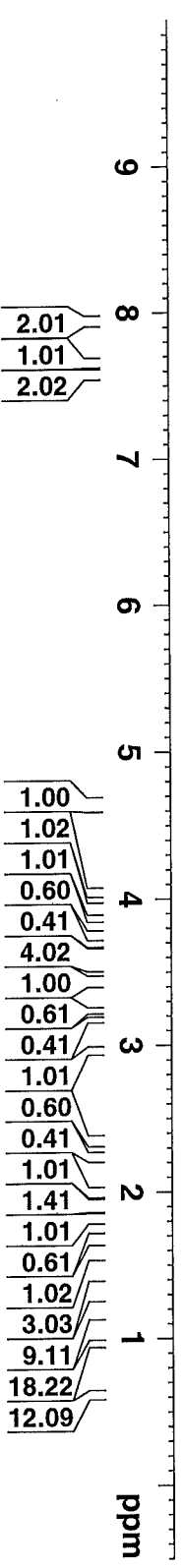
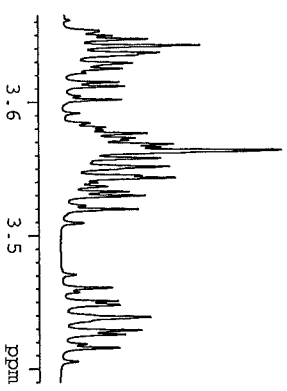
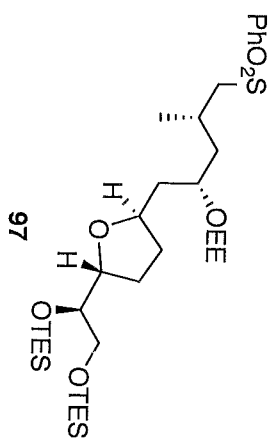
IB 3.00 Hz

GB 0

PC 1.40

bis TMS Sulfone

- 7.959
- 7.958
- 7.947
- 7.946
- 7.935
- 7.663
- 7.656
- 7.654
- 7.652
- 7.645
- 7.586
- 7.585
- 7.583
- 7.574
- 7.288
- 4.675
- 4.668
- 3.646
- 3.641
- 3.636
- 3.568
- 3.563
- 3.551
- 3.543
- 3.438
- 2.986
- 2.974
- 2.965
- 2.954
- 1.489
- 1.245
- 1.237
- 1.197
- 1.186
- 1.176
- 1.149
- 1.140
- 0.979
- 0.970
- 0.968
- 0.956
- 0.630
- 0.619
- 0.616
- 0.607
- 0.605



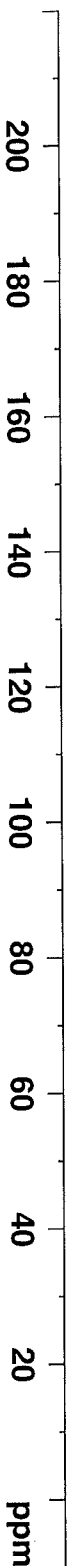
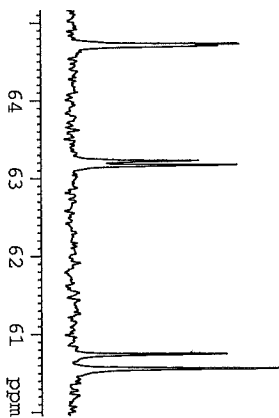
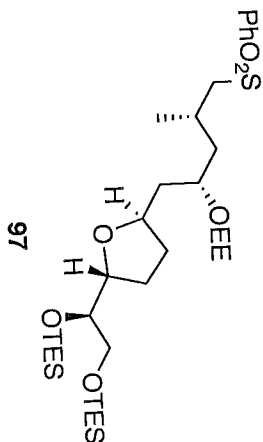
```

NAME          SIM-XVI-39-bis TMS Sulf
EXPNO         1
PROCNO        1
Date_         20120829
Time         10.41
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            22.6
DW            42.000 usec
DE            6.50 usec
TE            296.3 K
D1            2.00000000 sec
TDO           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW          EM
SSB          0
LB           0.30 Hz
GB           0
PC           1.00
  
```

bis TES Sulfone

- 140.15
- 140.02
- 133.53
- 133.40
- 129.25
- 129.16
- 128.03
- 127.99
- 99.90
- 98.01
- 78.62
- 78.54
- 77.22
- 77.04
- 76.86
- 76.10
- 76.01
- 72.90
- 71.21
- 64.71
- 63.21
- 63.15
- 60.73
- 60.55
- 41.87
- 41.70
- 41.57
- 40.85
- 33.19
- 32.98
- 27.43
- 25.82
- 20.73
- 20.58
- 19.83
- 19.64
- 15.45
- 15.35
- 6.99
- 6.81
- 5.12
- 4.31



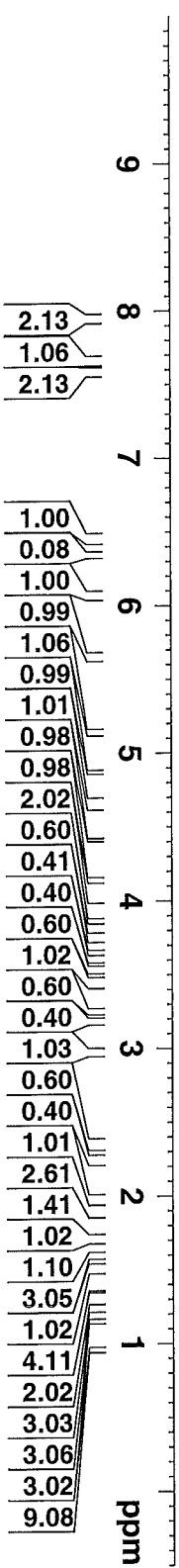
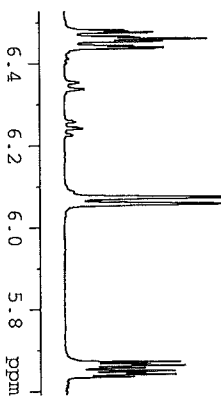
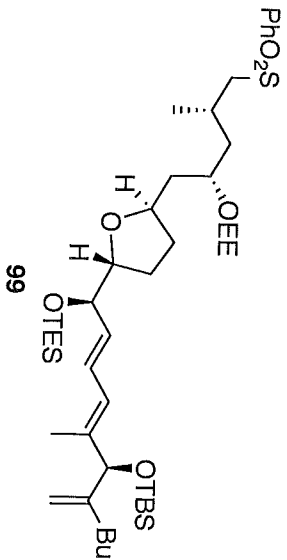
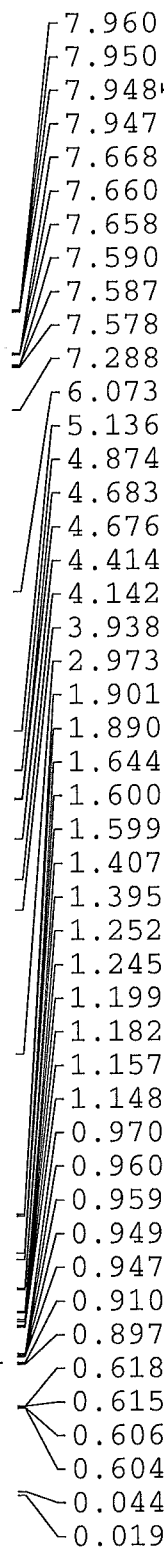
```

NAME          SDW-XVI-39-bis TES Sulf
EXPNO         2
PROCNO        1
Date_         20120829
Time          10.48
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENT       CDCl3
NS            105
DS            4
SWE           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            296.2 K
D1            2.0000000 sec
D11           0.0300000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
SFO2          700.1499406 MHz
SI            32768
SF            176.0521380 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
  
```

Diethyl Sulfone



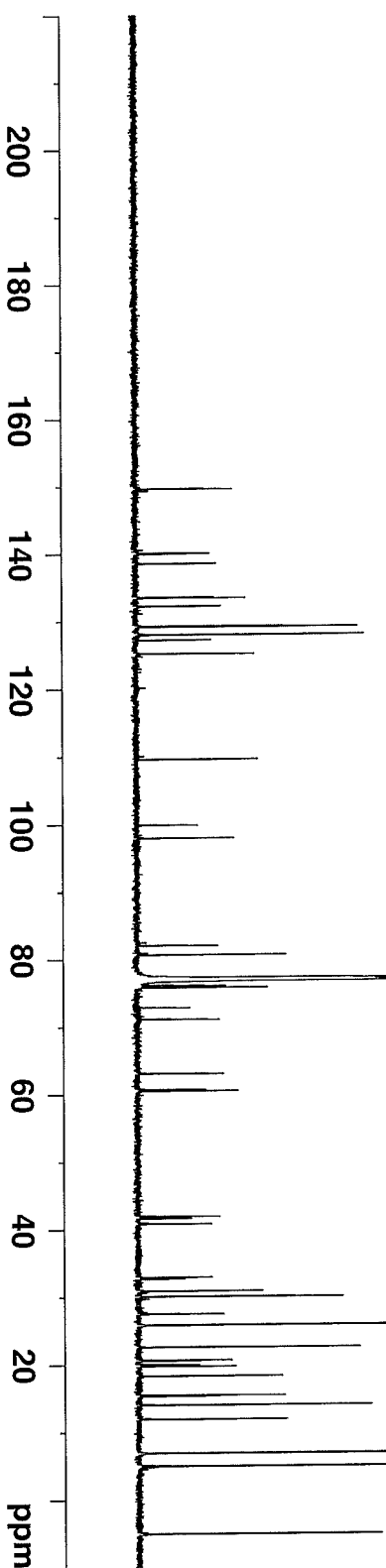
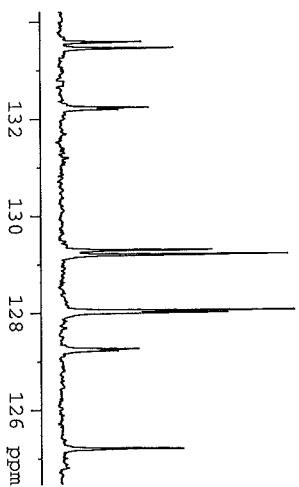
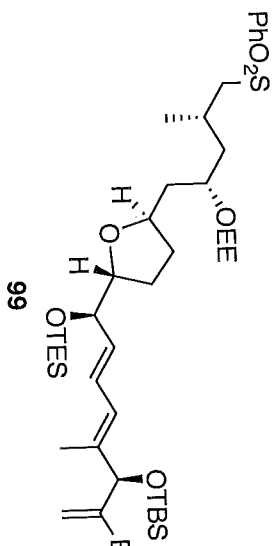
```

NAME          SUM-VIII-06-Diethyl Sulf
EXPNO         1
PROCNO        1
Date_         20121103
Time         22.05
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            32
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            20.2
DM            42.000 usec
DE            6.50 usec
TE            298.3 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW           EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

Dienyl Sulfone

149.62
140.10
139.98
138.56
138.52
133.58
133.45
132.23
132.19
129.29
129.19
128.04
127.99
127.25
127.21
125.20
109.62
99.90
98.01
82.05
82.01
80.69
77.23
77.05
76.87
76.12
76.08
75.83
72.84
71.12
63.13
63.06
60.72
60.54
41.93
41.77
41.67
40.83
32.93
32.68
30.90
30.09
27.48
25.84
22.59
20.69
20.59
20.02
19.77
18.34
15.47
15.38



```

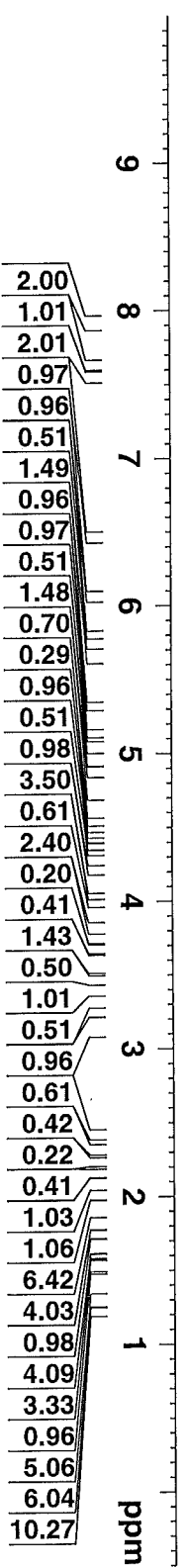
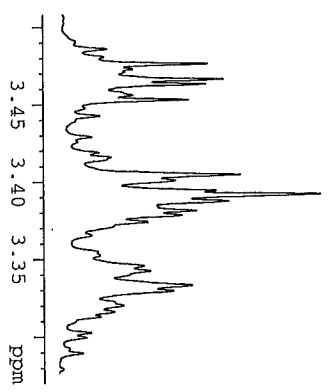
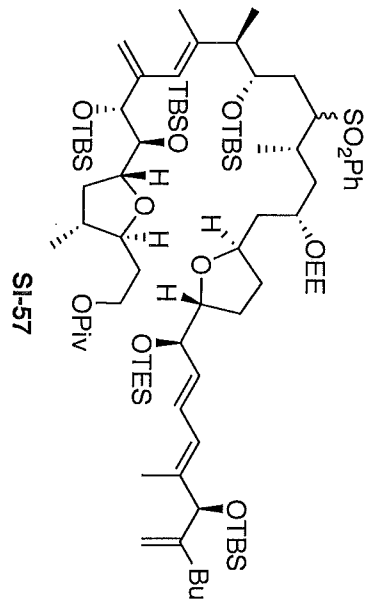
NAME          SWH          41666.668 Hz
EXPNO         2
PROCNO        1
Date_         20121103
Time         22.21
INSTRUM       5 mm CPDQH 13C
PROBHD        zpp930
PULPROG       zgpg30
TD            65536
SOLVENTNS     CDCl3
NS            300
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DE            12.000 usec
TE            298.2 K
D1            2.0000000 sec
D11           0.0300000 sec
DPO           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SFO1          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL1W         33.59817505 W
PL2W         0.70196527 W
PL13W        0.00000000 W
SFO2         700.1499406 MHz
SI           SF
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```


Coupled Sulfone

7.939	7.929	7.898	7.634	7.569	7.557	7.288	5.327	5.137	4.873	4.418	4.410	4.141	4.096	3.565	1.900	1.805	1.791	1.603	1.597	1.423	1.404	1.393	1.312	1.301	1.290	1.286	1.213	1.208	1.166	1.137	1.130	1.097	1.087	0.935	0.928	0.912	0.908	0.627	0.621	0.615	0.610	0.088	0.064	0.062	0.040
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



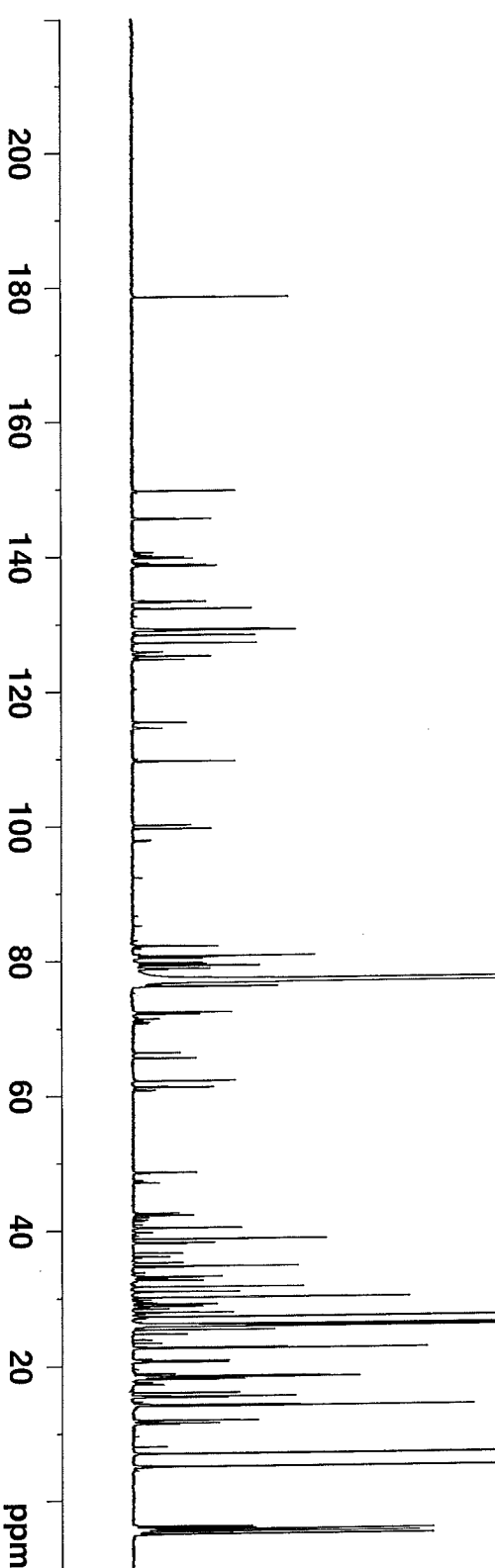
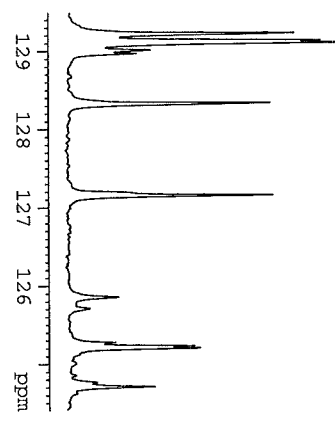
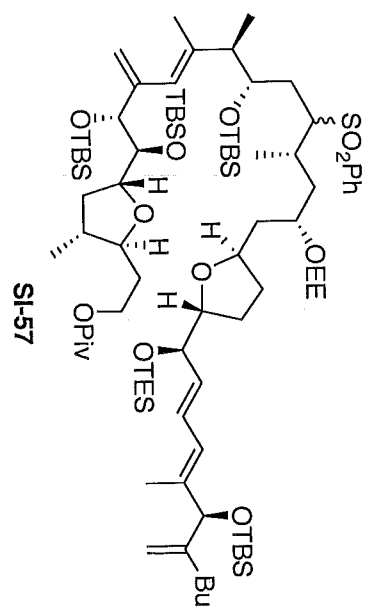
```

NAME          SDW-XVII-10-Coupled sulfc
EXPNO         1
PROCNO       20121109
Date_        0.03
Time         spect
INSTRUM      5 mm CPDCH 13C
PROBHD       zg30
PULPROG      95236
TD           61
SOLVENT      CDCl3
NS           61
DS           2
SWH          11904.762 Hz
FIDRES      0.125003 Hz
AQ          3.999821 sec
RG          22.6
DE          42.000 usec
TE          298.2 K
D1          2.00000000 sec
TD0         1

===== CHANNEL f1 =====
NUC1         1H
P1          9.40 usec
PL1         -3.20 dB
PL1W        33.59817505 W
SFO1        700.1516910 MHz
SI          131072
SF          700.1471400 MHz
WDW         EM
SSB         0
L3          0.30 Hz
L2          0
L1          0
PC          1.00
    
```

Coupled SulFone

178.47
149.64
132.23
129.21
129.11
129.09
128.32
127.14
109.59
80.69
79.25
77.23
77.05
76.87
76.15
72.35
62.17
61.23
40.37
38.70
38.16
34.69
33.17
31.63
30.93
30.90
30.09
29.09
27.88
27.22
26.16
26.03
26.01
25.97
25.91
25.84
25.30
22.70
22.58
20.74
20.56
18.47
18.37
18.34
18.28
18.23
18.06
17.99
16.02
15.97
15.46
15.31
14.18
14.06
11.90
11.49
6.94
6.91
5.00
-3.85
-4.15
-4.27
-4.34
-4.44
-4.56
-4.65
-4.69
-5.01
-5.05



```

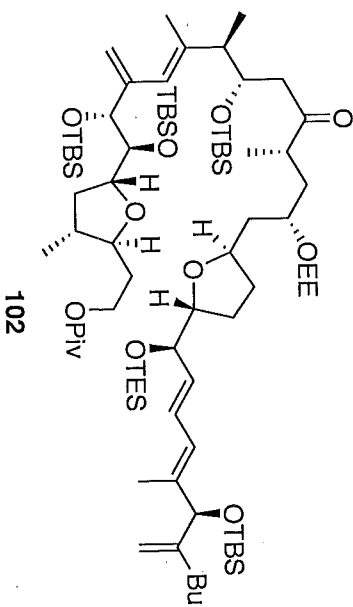
NAME          SDF-XVIIII-10-Coupled SulFic
EXPNO         3
PROCNO        1
Date_         20121109
Time         0.31
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENTN1     CDCl3
NS            10000
DS            4
SFO1          41666.668 Hz
SFO2          0.635783 Hz
FIDRES        0.7864820 sec
AQ            203
RG            12.000 usec
DE            16.50 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1          4.50 dB
PL12         38.14553833 W
SFO1         176.0706238 MHz

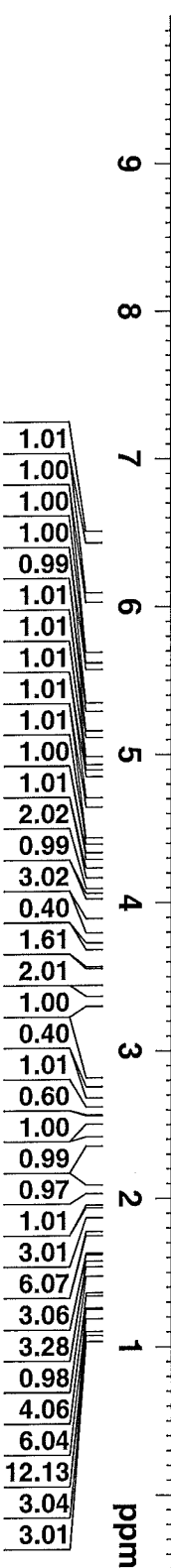
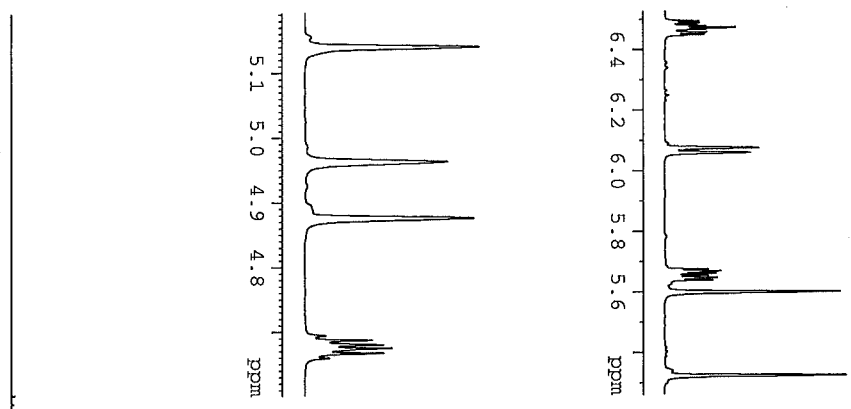
===== CHANNEL f2 =====
CPDPRG2       waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL12W        33.59817505 W
PL13W        0.70196527 W
SFO2         0.00000000 MHz
SFO2         700.1499406 MHz
SI            32768
SF           176.0521380 MHz
WDW           EM
SSB           0
LB            3.00 Hz
GB            0
PC            1.40
  
```

Ketone

7.28	6.4	6.2	6.0	5.8	5.6	5.1	5.0	4.9	4.8	3.942	3.934	3.931	3.526	3.515	3.339	3.335	1.906	1.895	1.820	1.603	1.409	1.399	1.300	1.298	1.292	1.291	1.212	1.207	1.093	1.083	0.979	0.967	0.966	0.913	0.908	0.896	0.627	0.625	0.616	0.613	0.083	0.072	0.046	0.027	0.022
------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------



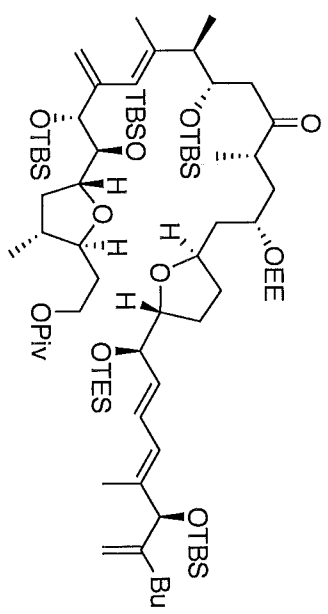
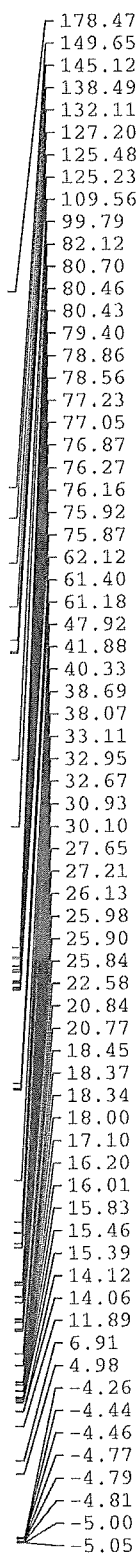
102



NAME SUM-XVIII-12-Ketol
 EXPNO 2
 PROCNO 1
 Date_ 20121111
 Time 23.23
 INSTRUM spect
 PROBD 5 mm CPDCH 13C
 PULPROG zg30
 TD 95236
 SOLVENT CDC13
 NS 50
 DS 2
 SMH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 25.4
 DW 42.000 usec
 DE 6.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 NUC1 1H
 P1 9.40 usec
 PL1 -3.20 dB
 PL1W 33.59817505 W
 SFO1 700.1516910 MHz
 SI 131072
 SF 700.1471400 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Ketone



102

200 180 160 140 120 100 80 60 40 20 ppm

NAME SUM-XVIII-12-Ketone

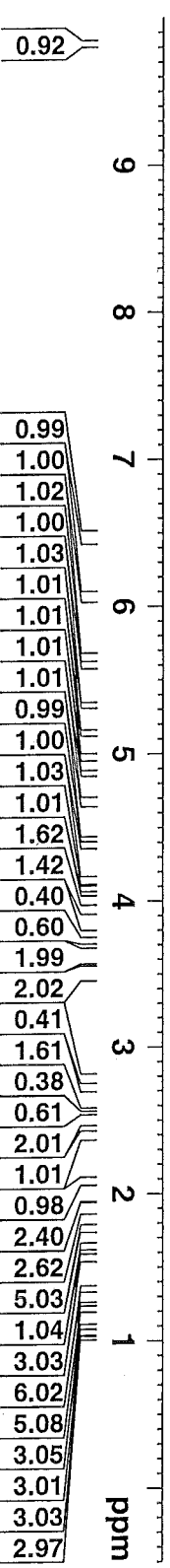
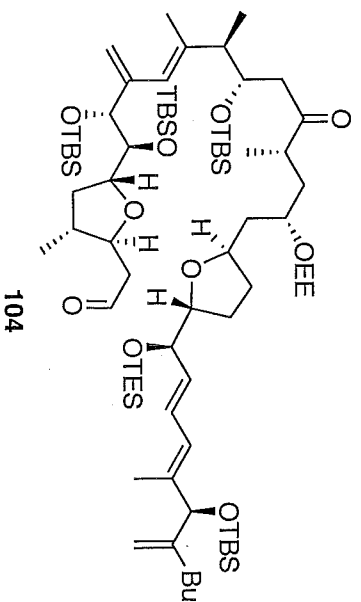
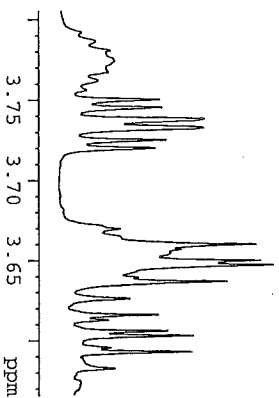
EXPNO 4
 PROCNO 1
 Date_ 20121111
 Time 23.47
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 776
 DS 4
 SWH 41666.668 Hz
 FIDRES 0.635783 Hz
 AQ 0.7864820 sec
 RG 203
 DW 12.000 usec
 DE 16.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TDO 1

==== CHANNEL F1 =====
 NUC1 13C
 P1 9.00 usec
 PL1 4.50 dB
 PL1W 38.14553833 W
 SFO1 176.0706238 MHz

==== CHANNEL F2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 65.00 usec
 PL2 -3.20 dB
 PL12 13.60 dB
 PL13 120.00 dB
 PL2W 33.59817505 W
 PL12W 0.70196527 W
 PL13W 0.00000000 W
 SFO2 700.1499406 MHz
 S1 32768
 SF 176.0521380 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Aldehyde

- 9.831
- 9.828
- 9.827
- 9.823
- 7.288
- 6.076
- 6.060
- 5.607
- 5.329
- 5.140
- 4.978
- 4.876
- 4.676
- 4.669
- 4.421
- 4.149
- 4.141
- 4.088
- 4.002
- 3.945
- 3.659
- 3.649
- 3.646
- 3.549
- 3.539
- 2.554
- 2.500
- 1.909
- 1.899
- 1.830
- 1.606
- 1.605
- 1.427
- 1.406
- 1.402
- 1.300
- 1.222
- 1.213
- 1.103
- 1.093
- 0.969
- 0.915
- 0.628
- 0.617
- 0.048
- 0.043



NAME SUM-XVIII-14-Aldehyd

EXPNO 1

PROCNO 1

Date_ 20121207

Time 21.11

INSTRUM spect

PROBHD 5 mm CPDCH 13C

PULPROG zg30

TD 95236

SOLVENT CDC13

NS 100

DS 2

SWH 11904.762 Hz

FIDRES 0.125003 Hz

AQ 3.9999621 sec

RG 22.6

DW 42.000 usec

DE 6.50 usec

TE 303.3 K

D1 2.00000000 sec

TD0 1

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

NUC1 1H

P1 9.40 usec

PL1 -3.20 dB

PL1W 33.59817505 W

SFO1 700.1516910 MHz

SI 131072

SF 700.1471400 MHz

WDW EM

SSB 0

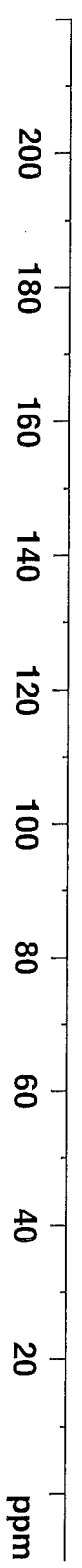
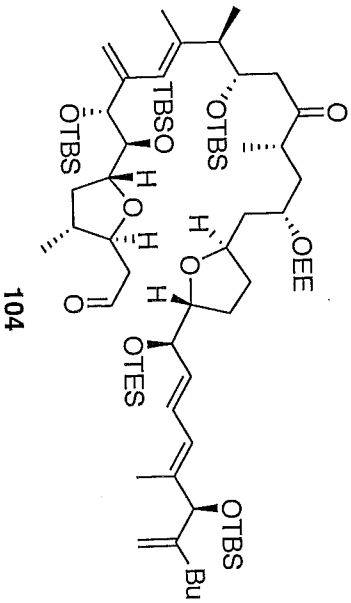
LB 0.30 Hz

GB 0

PC 1.00

Aldehyde

202.21
202.18
149.66
145.04
138.48
132.14
127.24
127.20
125.24
109.57
99.81
82.12
80.72
79.88
79.39
78.66
78.60
77.21
77.03
76.85
76.28
76.16
75.92
75.86
72.62
70.37
61.15
48.02
47.98
47.68
45.32
43.16
41.90
40.64
37.59
37.02
32.93
32.65
30.94
30.11
27.62
26.17
26.11
25.96
25.91
25.90
25.83
22.57
20.75
18.42
18.35
18.33
18.00
17.24
15.64
15.45
15.37
14.02
11.88
6.88
5.00
-4.10
-4.29
-4.46
-4.47
-4.79
-4.81
-5.02
-5.06



```

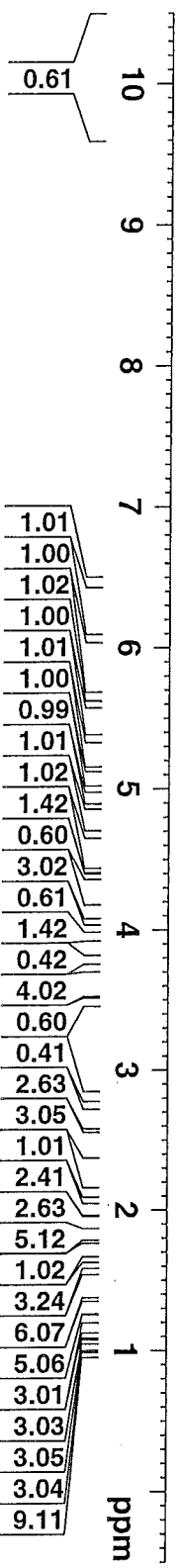
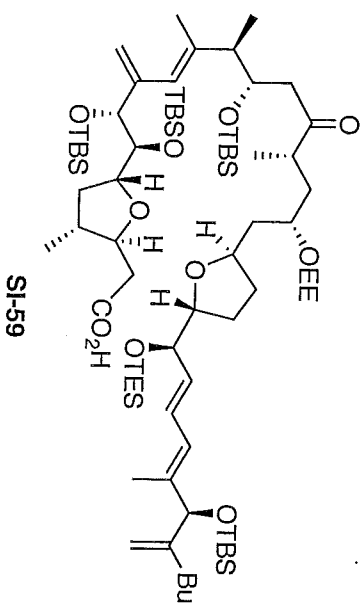
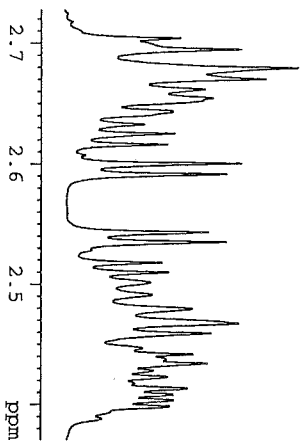
NAME SUM-XVII-14-Aldehy
EXPNO 2
PROCNO 1
Date_ 20121207
Time 21.29
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 5382
DS 4
SWH 41666.668 Hz
FIDRES 0.635783 Hz
AQ 0.7864820 sec
RG 203
DE 12.000 usec
TE 303.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 13C
P1 9.00 usec
PL1 4.50 dB
PL1W 38.14553833 W
SFO1 176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 65.00 usec
PL2 -3.20 dB
PL12 13.60 dB
PL13 120.00 dB
PL2W 33.59817505 W
PL12W 0.70196527 W
PL13W 0.00000000 W
SFO2 700.1499406 MHz
SI 32768
SF 176.0521380 MHz
WDW EM
SSB 0
LB 3.00 Hz
GB 0
PC 1.40
  
```

Acid

- 7.288
- 5.604
- 5.365
- 5.351
- 5.140
- 4.999
- 4.876
- 4.679
- 4.671
- 4.421
- 4.123
- 4.100
- 3.962
- 3.952
- 3.942
- 3.661
- 3.651
- 3.648
- 3.638
- 3.578
- 2.678
- 1.909
- 1.897
- 1.837
- 1.836
- 1.827
- 1.606
- 1.605
- 1.401
- 1.299
- 1.291
- 1.230
- 1.213
- 1.107
- 1.097
- 1.065
- 1.055
- 0.969
- 0.967
- 0.915
- 0.900
- 0.628
- 0.616
- 0.121
- 0.048
- 0.024



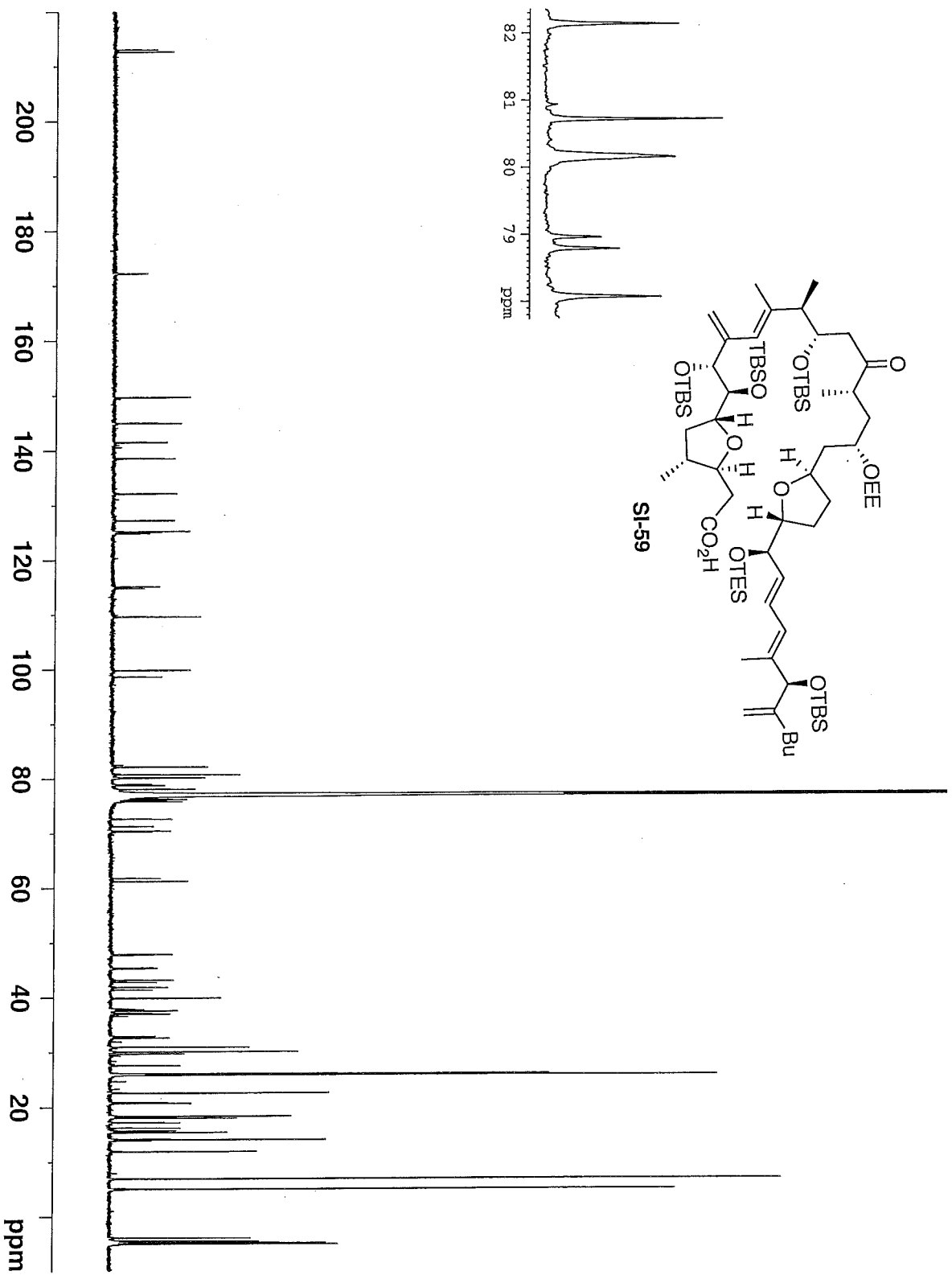
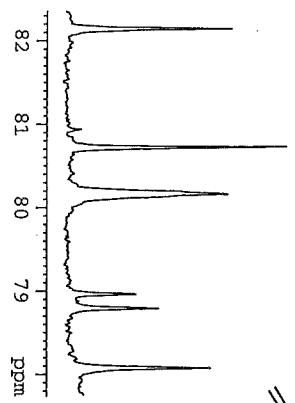
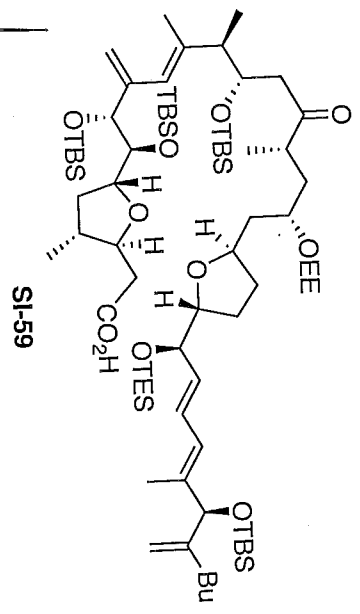
```

NAME          SUM-XVIII-15-Acid
EXPNO         1
PROCNO        1
Date_         20121209
Time          17.08
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zg30
TD            95236
SOLVENT       CDCl3
NS            100
DS            2
SWH           11904.762 Hz
FIDRES        0.125003 Hz
AQ            3.9999621 sec
RG            22.6
DE            42.000 usec
DW            6.50 usec
TE            303.3 K
D1            2.00000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          1H
P1            9.40 usec
PL1          -3.20 dB
PL1W         33.59817505 W
SFO1         700.1516910 MHz
SI           131072
SF           700.1471400 MHz
WDW          EM
SSB           0
LB            0.30 Hz
GB            0
PC            1.00
  
```

Acid

212.61
149.65
144.93
138.52
132.10
127.23
125.24
109.58
99.78
82.13
80.71
80.15
78.07
77.21
77.03
76.85
76.29
76.20
75.90
75.80
72.60
70.41
61.76
61.16
47.88
43.18
41.86
39.89
37.59
37.56
36.99
32.62
30.94
30.11
29.72
27.58
26.09
25.95
25.90
25.83
22.57
20.88
20.72
18.36
18.33
18.30
17.99
17.24
17.13
16.20
15.71
15.67
15.58
15.41
15.36
14.12
14.03
11.88
6.88
5.00
3.92
4.40
4.43
4.48
4.72
4.74
4.78
5.02
5.05

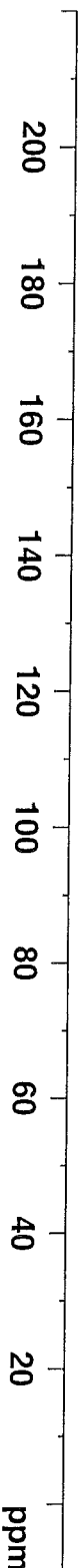
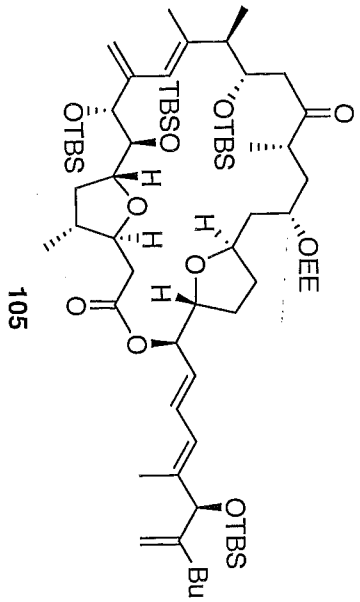
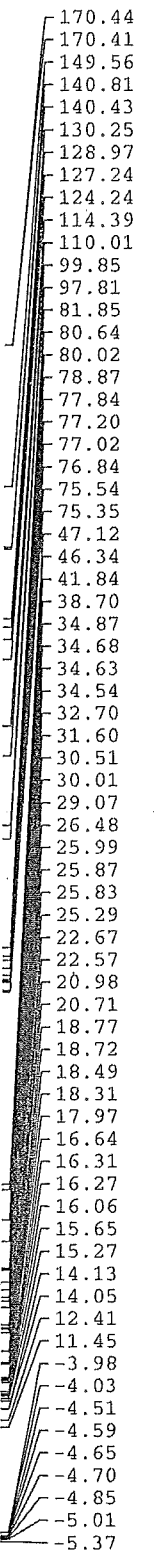


NAME SUM-XVIII-15-Acid
 EXPNO 3
 PROCNO 1
 Date_ 20121209
 Time 17.38
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 4000
 DS 4
 SWH 41666.668 Hz
 FIDRES 0.635783 Hz
 AQ 0.7864820 sec
 RG 203
 DW 12.000 us
 DE 16.50 us
 TE 303.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

==== CHANNEL F1 =====
 NUC1 13C
 P1 9.00 us
 PL1 4.50 dB
 PL1W 38.14553833 W
 SFO1 176.0706238 MHz

==== CHANNEL F2 =====
 CPDPRG2 waltz16
 NUC2 1H
 PCPD2 65.00 us
 PL2 -3.20 dB
 PL12 13.60 dB
 PL13 120.00 dB
 PL2W 33.59817505 W
 PL12W 0.70196527 W
 PL13W 0.00000000 W
 SFO2 700.1499406 MHz
 SI 32768
 SF 176.0521380 MHz
 WDW EM
 SSB 0
 LB 3.00 Hz
 GB 0
 PC 1.40

Macrolactone



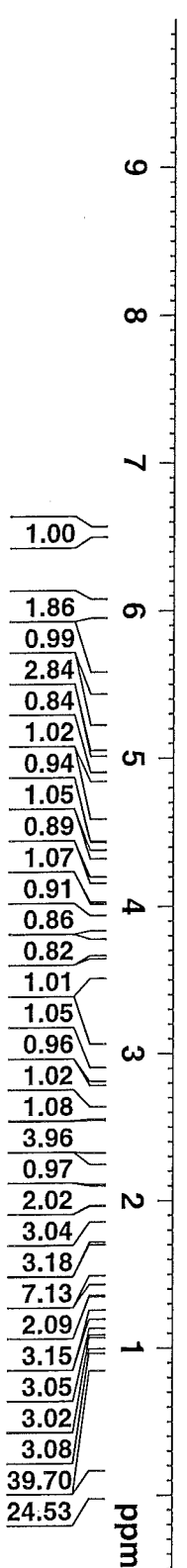
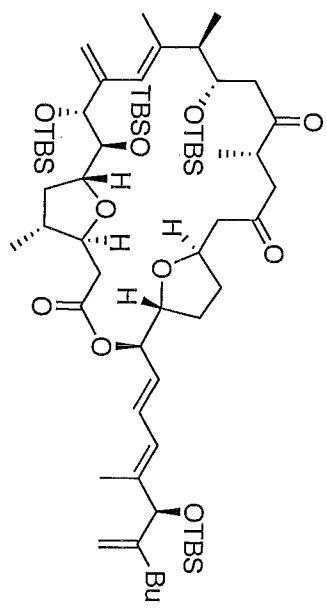
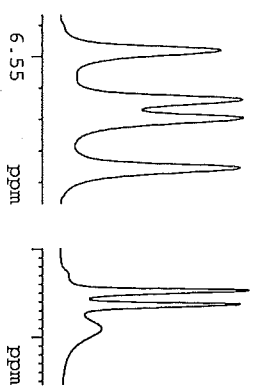
NAME SUM-XVIII-56-Macrolactone
 EXPNO 2
 PROCNO 1
 Date_ 20130220
 Time 4:26
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 20141
 DS 4
 SWH 41666.668 Hz
 FIDRES 0.635783 Hz
 AQ 0.7864820 sec
 RG 203
 DW 12.000 usec
 DE 16.50 usec
 TE 298.2 K
 D1 2.00000000 sec
 D11 0.03000000 sec
 TD0 1

==== CHANNEL F1 =====
 NUCL 13C
 P1 9.00 usec
 P1L 4.50 dB
 P1LW 38.14553833 W
 SFO1 176.0706238 MHz

==== CHANNEL F2 =====
 CPDPRG2 waltz16
 NUCL 1H
 PCPBD2 65.00 usec
 PL2 -3.20 dB
 PL12 13.60 dB
 PL13 120.00 dB
 PL2W 33.59817505 W
 PL12W 0.70196527 W
 PL13W 0.00000000 W
 SFO2 700.1499406 MHz
 SI 32768
 SF 176.0521380 MHz
 WDW EM
 SSB 0
 IB 3.00 Hz
 GB 0
 PC 1.40

Diketone

7.290
6.530
6.514
6.052
6.036
5.112
5.111
4.880
4.878
4.405
2.598
2.594
2.465
1.912
1.900
1.813
1.806
1.792
1.614
1.407
1.405
1.398
1.396
1.385
1.383
1.329
1.327
1.319
1.317
1.308
1.306
1.162
1.160
1.119
1.109
1.039
1.037
0.922
0.916
0.912
0.906
0.100
0.098
0.043
0.036
0.025

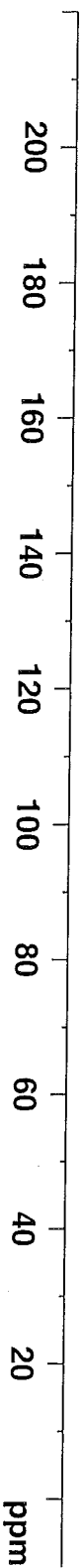
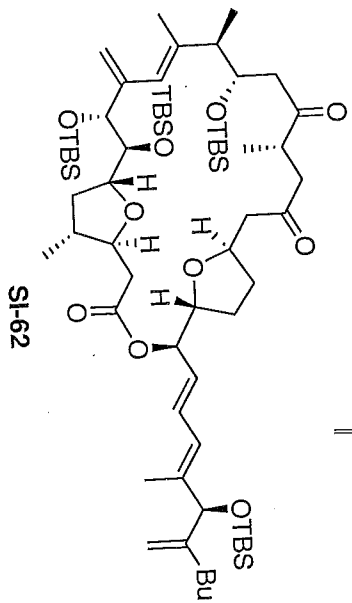
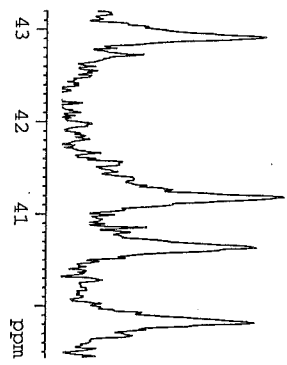
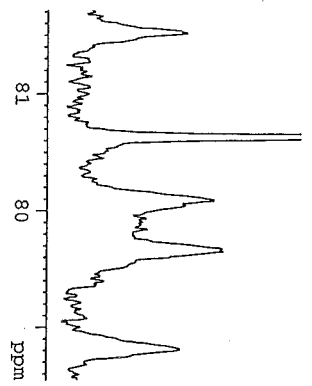


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 EXPNO 1
 PROCNO 20130222
 Date_ 23.41
 Time 23.41
 INSTRUM spect
 PROBHD 5 mm CPDCH 13C
 PULPROG zg30
 TD 95236
 SOLVENT CDCl3
 NS 245
 DS 2
 SWH 11904.762 Hz
 FIDRES 0.125003 Hz
 AQ 3.9999621 sec
 RG 20.2
 DW 42.000 usec
 DE 6.50 usec
 TE 298.1 K
 DL 2.00000000 sec
 TD0 1

===== CHANNEL f1 =====
 NUCL1 1H
 P1 9.40 usec
 PL1 -3.20 dB
 PL1W 33.59817505 W
 SFO1 700.1516910 MHz
 SI 131072
 SF 700.1471400 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Diketone

- 210.97
- 207.50
- 170.52
- 149.54
- 146.25
- 140.77
- 140.41
- 130.72
- 128.58
- 126.97
- 124.11
- 114.81
- 110.04
- 81.51
- 80.63
- 80.08
- 79.65
- 78.81
- 77.20
- 77.02
- 76.84
- 75.30
- 71.57
- 50.48
- 46.82
- 46.26
- 42.90
- 41.17
- 40.63
- 39.81
- 38.41
- 36.64
- 34.68
- 32.24
- 30.49
- 30.00
- 29.71
- 28.54
- 26.38
- 26.01
- 25.87
- 25.83
- 22.57
- 18.63
- 18.42
- 18.31
- 17.99



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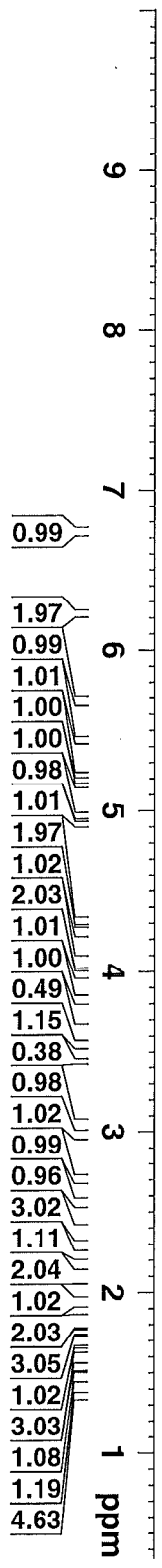
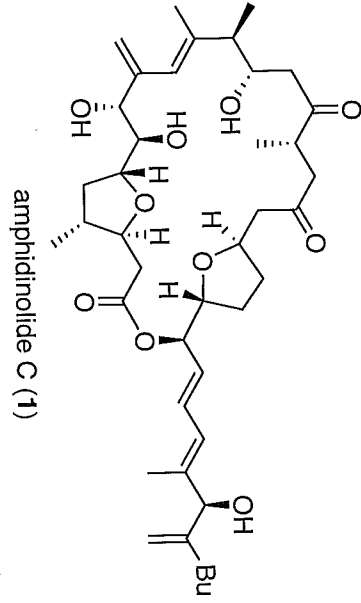
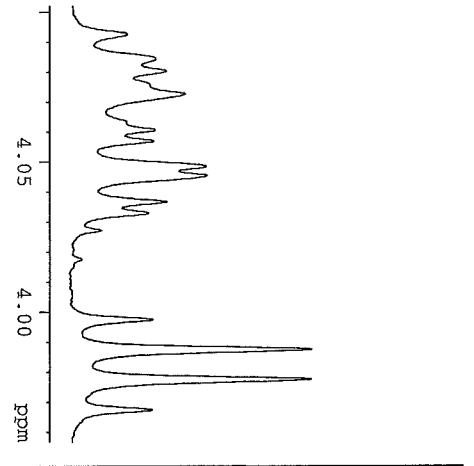
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EXPNO         2
PROCNO        1
Date_         20130223
Time          0.11
INSTRUM       spect
PROBHD        5 mm CPDCH 13C
PULPROG       zgpg30
TD            65536
SOLVENTF1    CDCl3
NS            22202
DS            4
SWH           41666.668 Hz
FIDRES        0.635783 Hz
AQ            0.7864820 sec
RG            203
DW            12.000 usec
DE            16.50 usec
TE            298.1 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

===== CHANNEL f1 =====
NUC1          13C
P1            9.00 usec
PL1           4.50 dB
PL1W          38.14553833 W
SF01          176.0706238 MHz

===== CHANNEL f2 =====
CPDPRG2      waltz16
NUC2          1H
PCPD2        65.00 usec
PL2          -3.20 dB
PL12         13.60 dB
PL13         120.00 dB
PL2W         33.59817505 W
PL12W        0.70196527 W
PL13W        0.00000000 W
SF02          700.1499406 MHz
SI           32768
SF           176.0521380 MHz
WDW          EM
SSB          0
LB           3.00 Hz
GB           0
PC           1.40
    
```

Deprotection

7.157
6.229
5.444
5.228
5.159
5.157
4.971
4.924
4.323
4.313
4.307
3.987
3.977
3.553
3.003
2.977
2.410
2.392
2.372
2.359
2.357
2.353
2.233
2.107
2.090
2.085
1.760
1.758
1.641
1.640
1.362
1.351
1.214
1.209
1.204
1.198
1.193
1.188
0.961
0.951
0.941
0.845
0.834
0.824
0.675
0.667



SUM-XVIII-62-Deprotecti

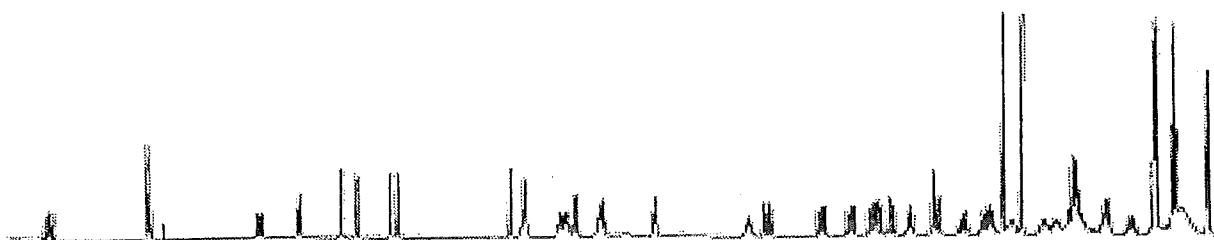
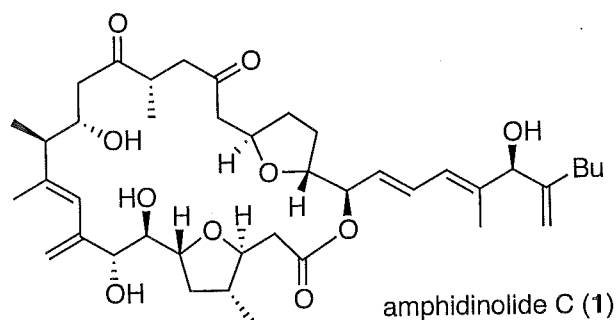
NAME SUM-XVIII-62-Deprotecti
EXPNO 1
PROCNO 1
Date_ 20130303
Time 3.28
INSTRUM spect
PROBHD 5 mm CPDCH 13C
PULPROG zg30
TD 2930
SOLVENT C6D6
NS 100
DS 2
SWH 11904.762 Hz
FIDRES 0.125003 Hz
AQ 3.9993621 sec
RG 22.6
DW 42.000 usec
DE 6.50 usec
TE 298.2 K
D1 2.00000000 sec
TD0 1

CHANNEL f1

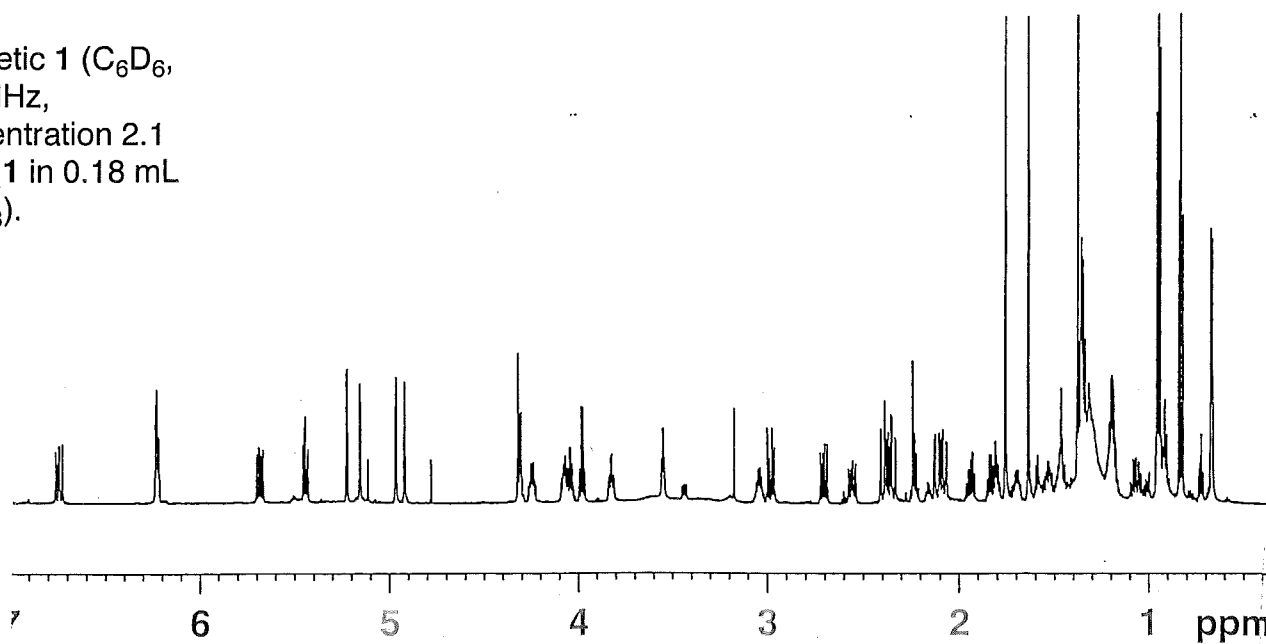
NUC1 1H
P1 9.40 usec
PL -3.20 dB
PL1W 33.59817505 W
SF01 700.1516910 MHz
SI 131072
WDW 700.1471400 MHz
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Comparison of ^1H NMR Spectra of Amphidinolide C (1)^a

Natural **1** (C_6D_6 , 500 MHz, concentration unknown) Kubota, T.; Tsuda, M.; Kobayashi, J. *Org. Lett.* **2001**, *3*, 1363-1366.



Synthetic **1** (C_6D_6 , 700 MHz, Concentration 2.1 mg of **1** in 0.18 mL CDCl_3).



^a Similar to amphidinolide F [observed by Carter *et. al.* (*Angew. Chem. Int. Ed.* **2012**, *51*, 7948-7951), Fürstner *et. al.* (*Angew. Chem. Int. Ed.* **2013**, DOI: 10.1002/anie.201301700.) as well as by the isolation chemists Kubota and Kobayashi (personal communication)], ^1H NMR of amphidinolide C also exhibited concentration dependency. The OH (acidic) protons chemical shifts varied significantly with concentration; spectra collected in C_6D_6 provided the most consistency. The ^{13}C NMR of synthetic **1** was in excellent agreement with natural **1** (see page S208).

Comparison of ^{13}C data of amphidinolide C (**1**)

No.	Synthetic 1 (176 MHz, C_6D_6)	Natural 1 (125 MHz, C_6D_6)
1	171.03	171.09
2	39.17	39.22
3	81.80	81.77
4	40.21	40.22
5	36.97	37.04
6	79.10	79.17
7	76.42	76.54
8	77.85	77.73
9	145.96	145.98
10	125.07	125.16
11	140.70	140.66
12	49.18	49.25
13	71.05	71.07
14	45.84	45.85
15	213.26	213.27
16	42.30	42.44
17	46.44	46.39
18	207.41	207.45
19	48.73	48.73
20	75.68	75.71
21	32.29	32.28
22	28.24	28.31
23	80.04	80.04
24	77.16	77.25
25	Hiding in C_6D_6 peaks	128.53
26	131.12	131.13
27	125.50	125.50
28	140.85	140.92
29	79.90	79.90
30	149.37	149.43
31	31.72	31.74
32	30.40	30.42
33	22.80	22.80
34	14.16	14.17
35	15.43	15.39
36	115.15	115.17
37	15.34	15.36
38	15.80	15.78
39	16.20	16.24
40	12.56	12.60
41	110.35	110.35

^a Concentration 2.1 mg of **1** in 0.18 mL CDCl_3 . ^b Kubota, T.; Tsuda, M.; Kobayashi, J. *Tetrahedron* **2001**, *57*, 5975-5977.