

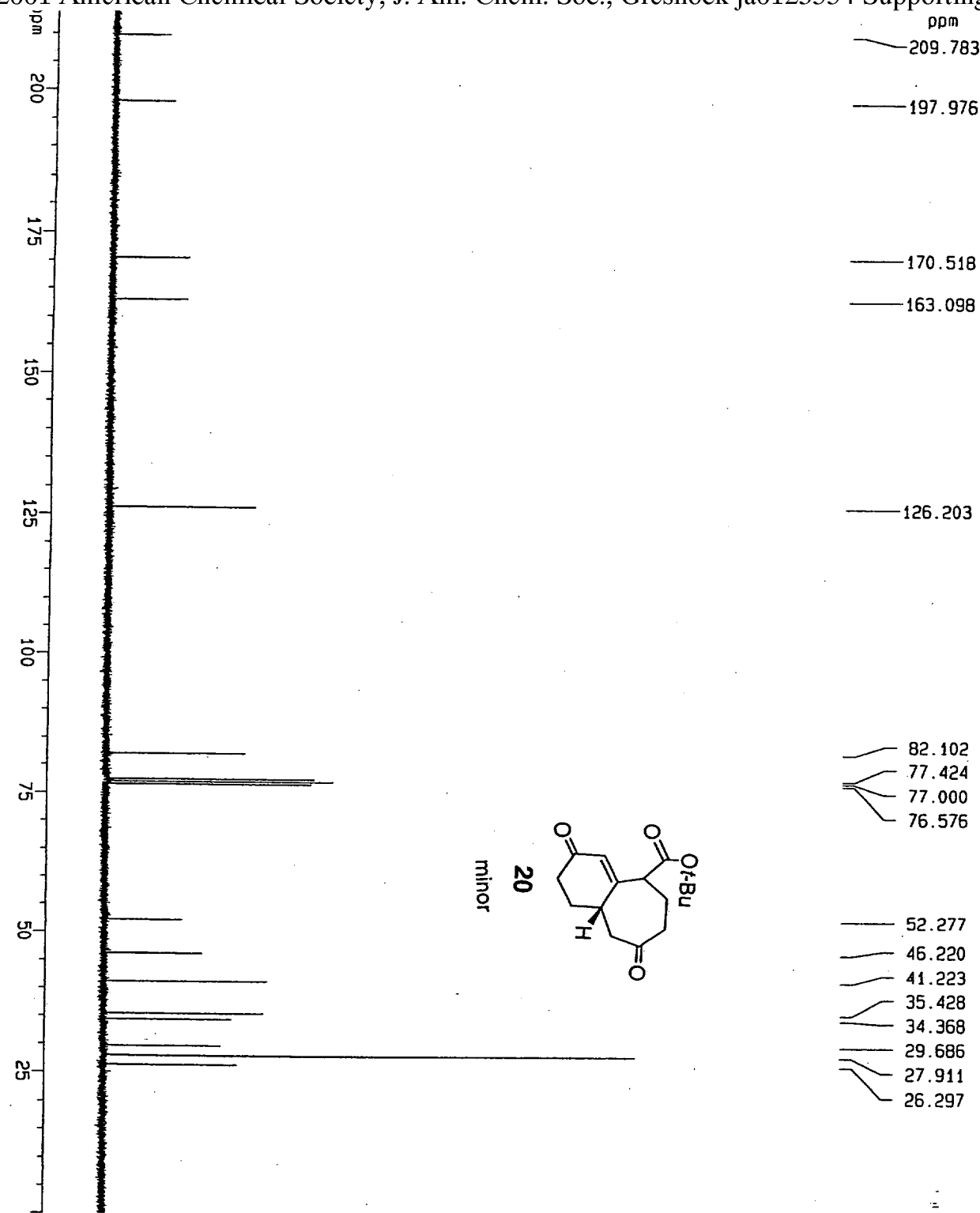
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 PROCNO 1

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 Time 16.46  
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 PULPROG zg30  
 TD 65536  
 SOLVENT CDC13  
 NS 16  
 DS 2  
 SMH 6172.839 Hz  
 FIDRES 0.094190 Hz  
 AQ 5.3084660 sec  
 RG 181  
 DW 81.000 usec  
 DE 6.00 usec  
 TE 300.0 K  
 D1 1.00000000 sec

----- CHANNEL f1 -----  
 NUC1 1H  
 P1 9.80 usec  
 PL1 -6.00 dB  
 SFO1 300.1318534 MHz

F2 - Processing parameters  
 SI 32768  
 SF 300.1300652 MHz  
 WDM no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.00

1D NMR plot parameters  
 CX 20.00 cm  
 F1P 8.000 ppm  
 F1 2401.04 Hz  
 F2P 0.000 ppm  
 F2 0.00 Hz  
 PPMCM 0.40000 ppm/cm  
 HZCM 120.05200 Hz/cm



- 209.783
- 197.976
- 170.518
- 163.098
- 126.203
- 82.102
- 77.424
- 77.000
- 76.576
- 52.277
- 46.220
- 41.223
- 35.428
- 34.368
- 29.686
- 27.911
- 26.297

Current Data Parameters  
 NAME Funk-09-29-01  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20010929  
 Time 17.52  
 INSTRUM spect  
 PROBHD 5 mm Multinu  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT CDCl3  
 NS 1024  
 DS 4  
 SMH 18832.393 Hz  
 FIDRES 0.287360 Hz  
 AQ 1.7400308 sec  
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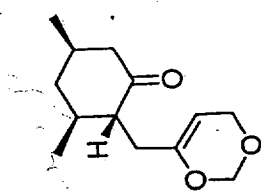
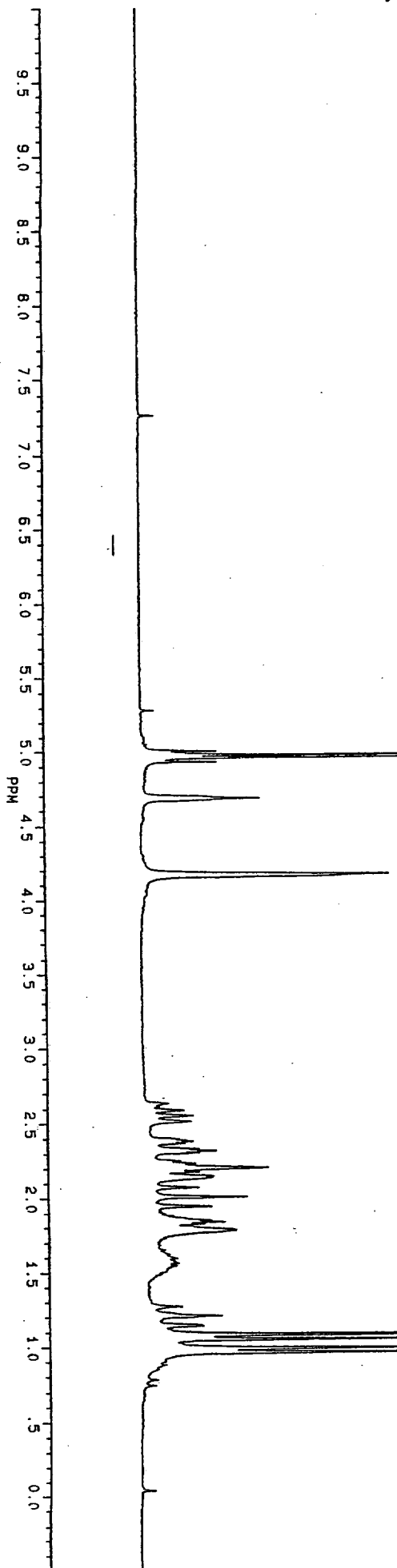
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 SF01 75.4780200 MHz

CHANNEL f2  
 NUC2 1H  
 P2 114.00 usec  
 PL2 -6.00 dB  
 PL12 18.00 dB  
 PL13 18.00 dB  
 SF02 300.1312005 MHz

F2 - Processing parameters  
 SI 32768  
 SF 75.4677537 MHz  
 MDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.40

1D NMR plot parameters  
 CX 20.00 cm  
 F1P 215.000 ppm  
 F1 16225.57 Hz  
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 F2 0.00 Hz  
 PPMCH 10.75000 ppm/cm  
 HZCH 811.27832 Hz/cm

HERTZ

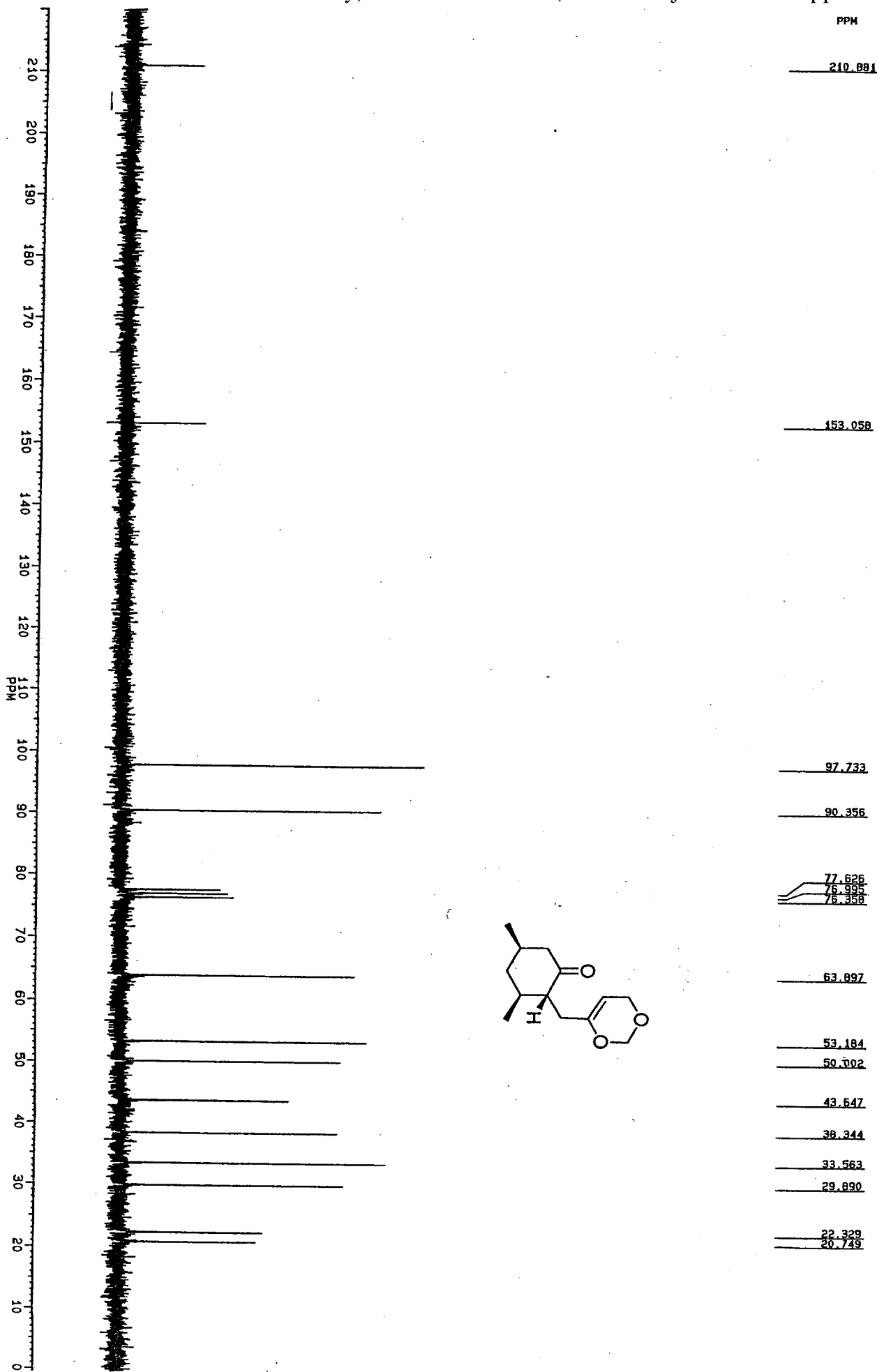


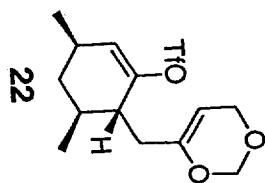
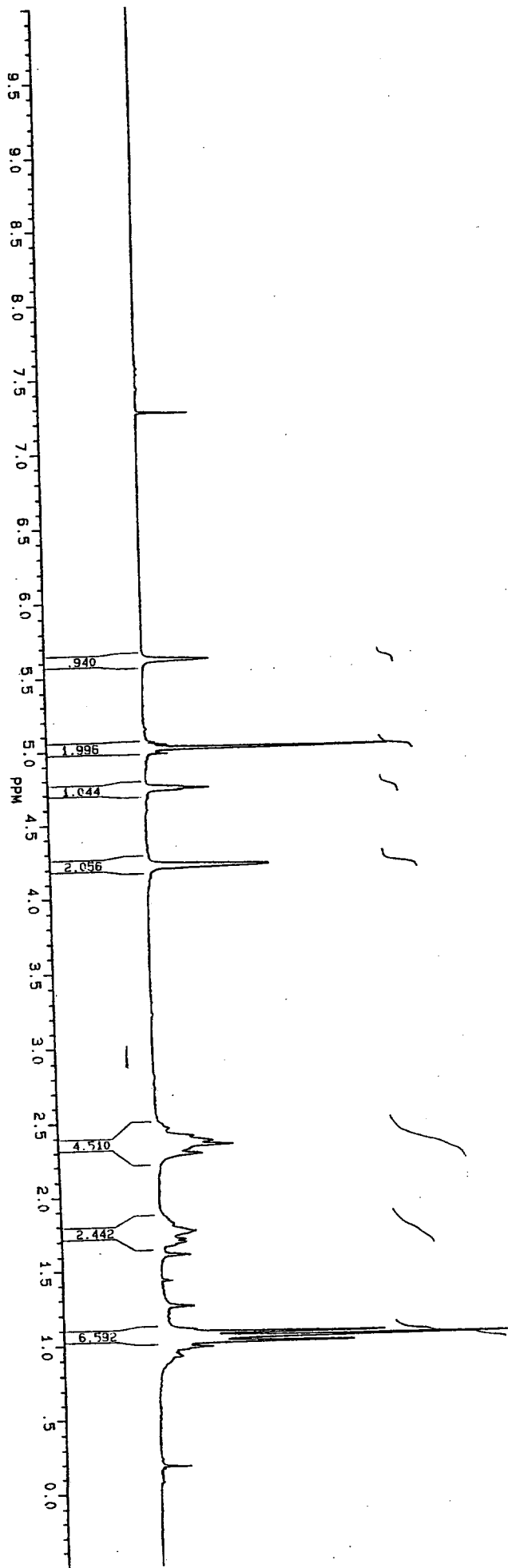
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991.73  
942.40

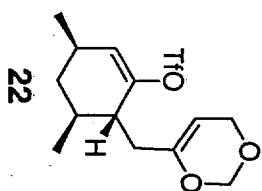
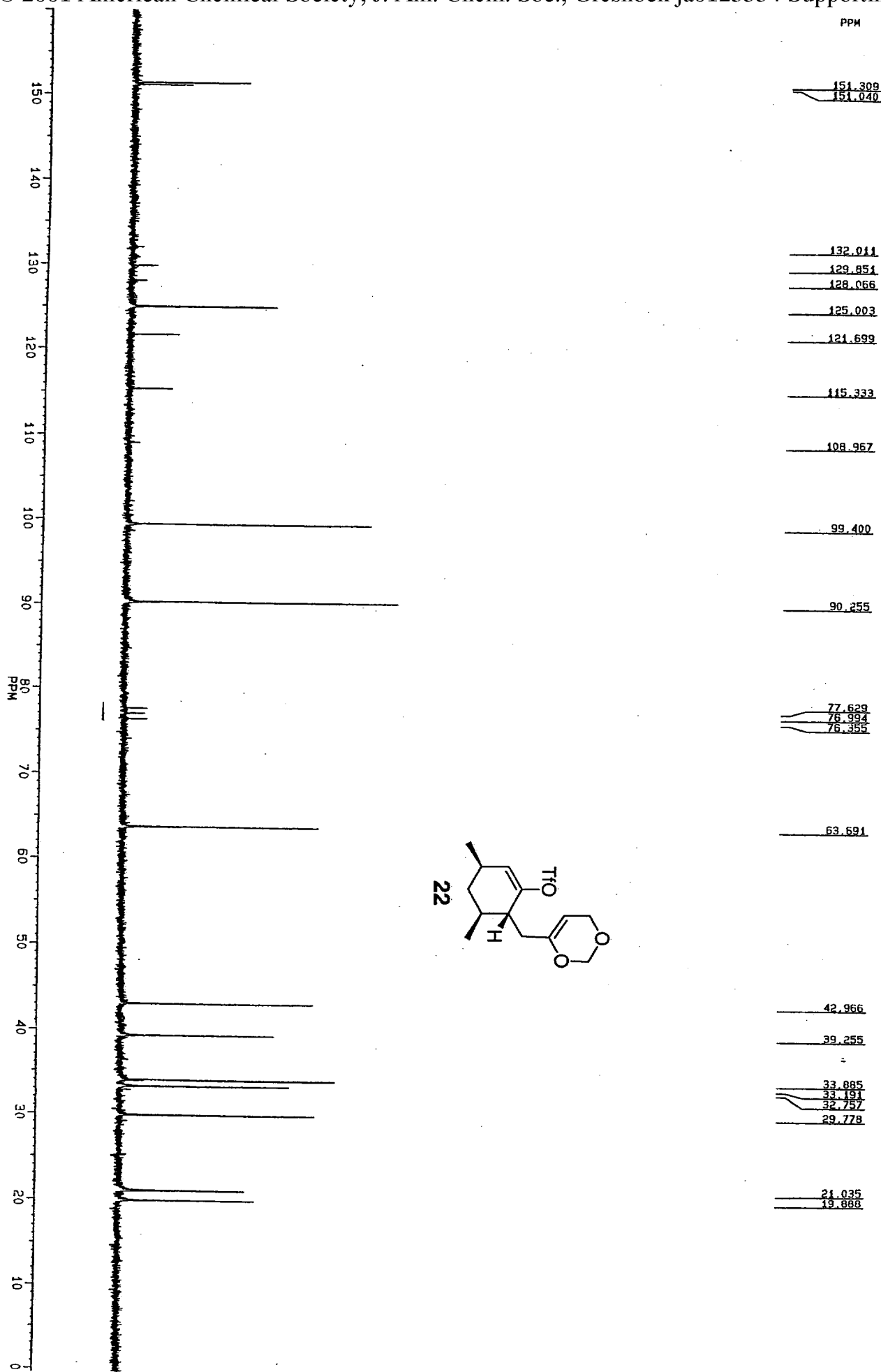
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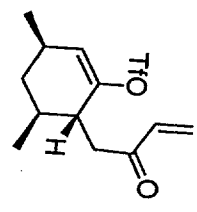
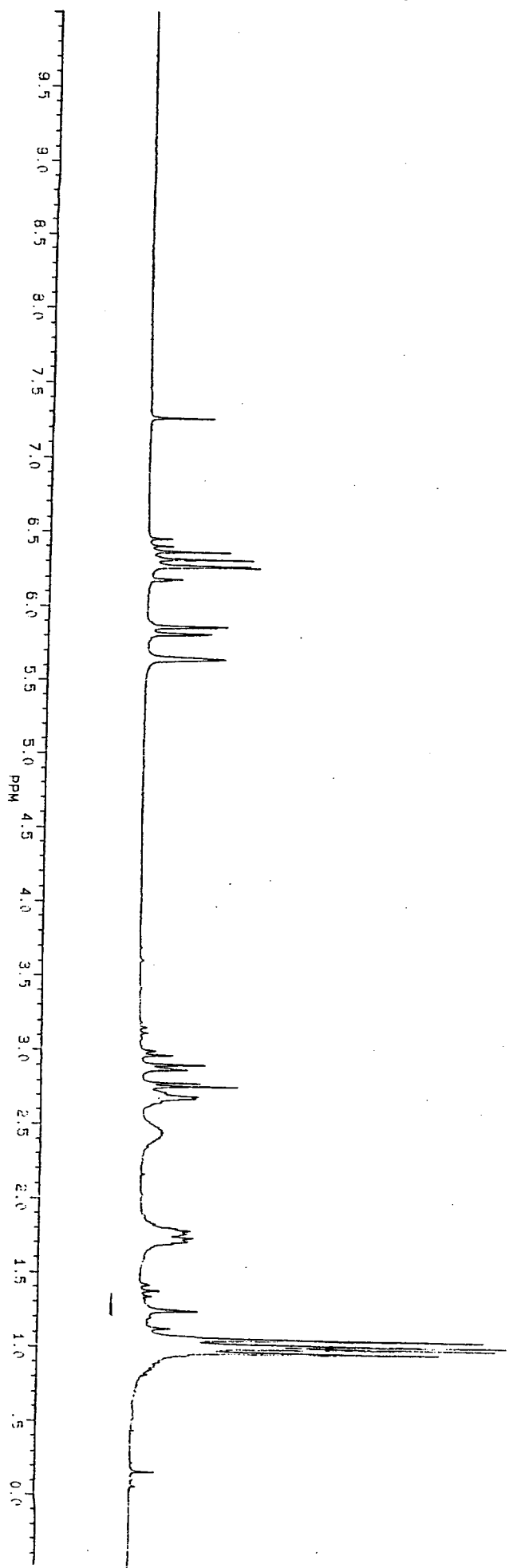
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451.42  
445.84  
440.29  
434.53  
432.43  
419.12  
406.46  
394.07  
381.52  
375.05  
372.46  
369.28  
362.98  
360.78  
350.53  
347.02  
328.41  
323.47  
317.09  
258.27  
248.59  
245.23  
234.18  
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174.80  
161.21

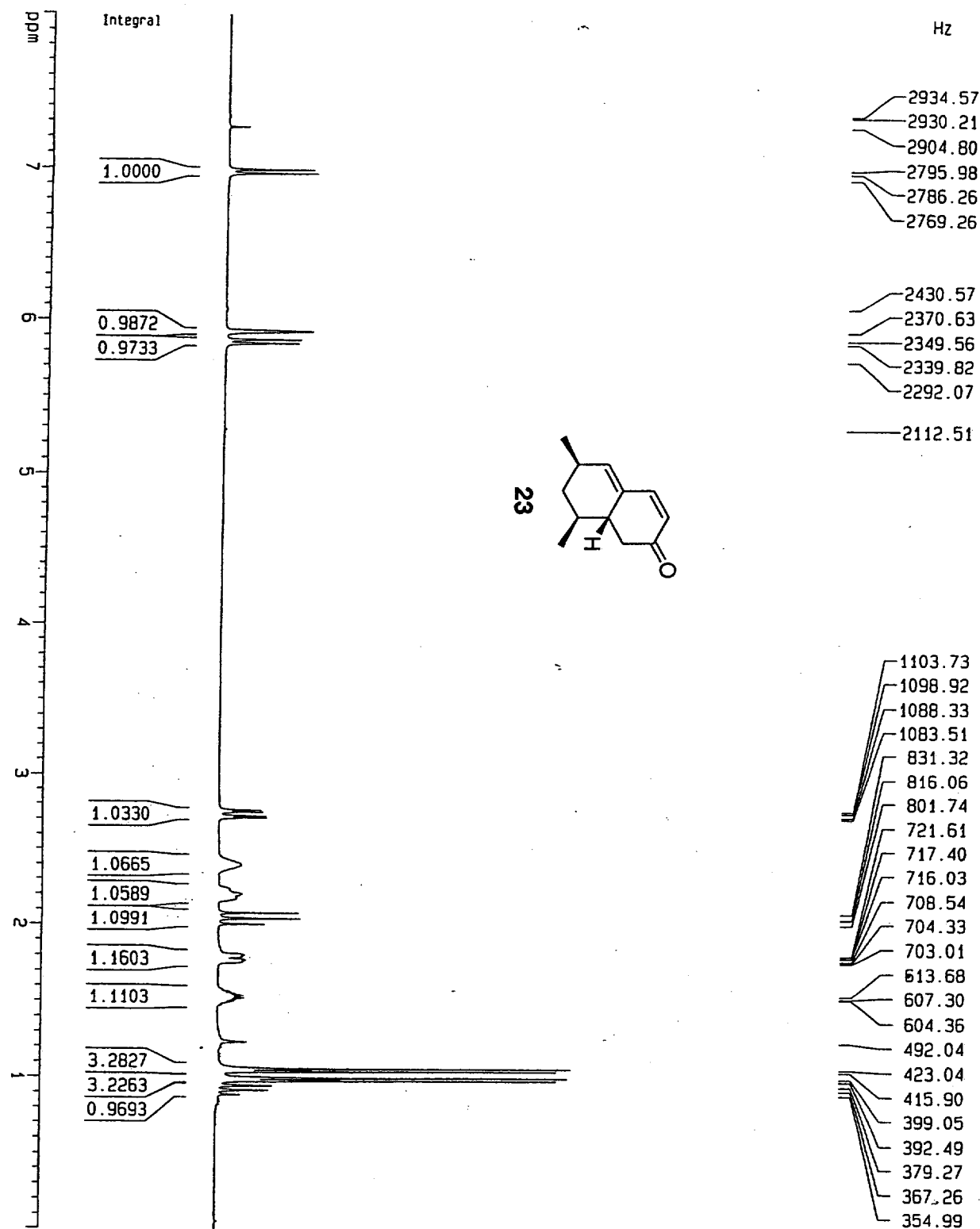




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945.62
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481.71
474.11
468.83
456.94
351.57
341.32
337.28
333.66
320.97
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208.83
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183.89
35.57







Current Data Parameters  
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 EXPNO 1  
 PROCNO 1

F2 - Acquisition Parameters  
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 Time 15.58  
 INSTRUM spect  
 PROBHD 5 mm BBI 1H-B  
 PULPROG zg30  
 TD 65536  
 SOLVENT CDC13  
 NS 4  
 DS 2  
 SMH 8278.146 Hz  
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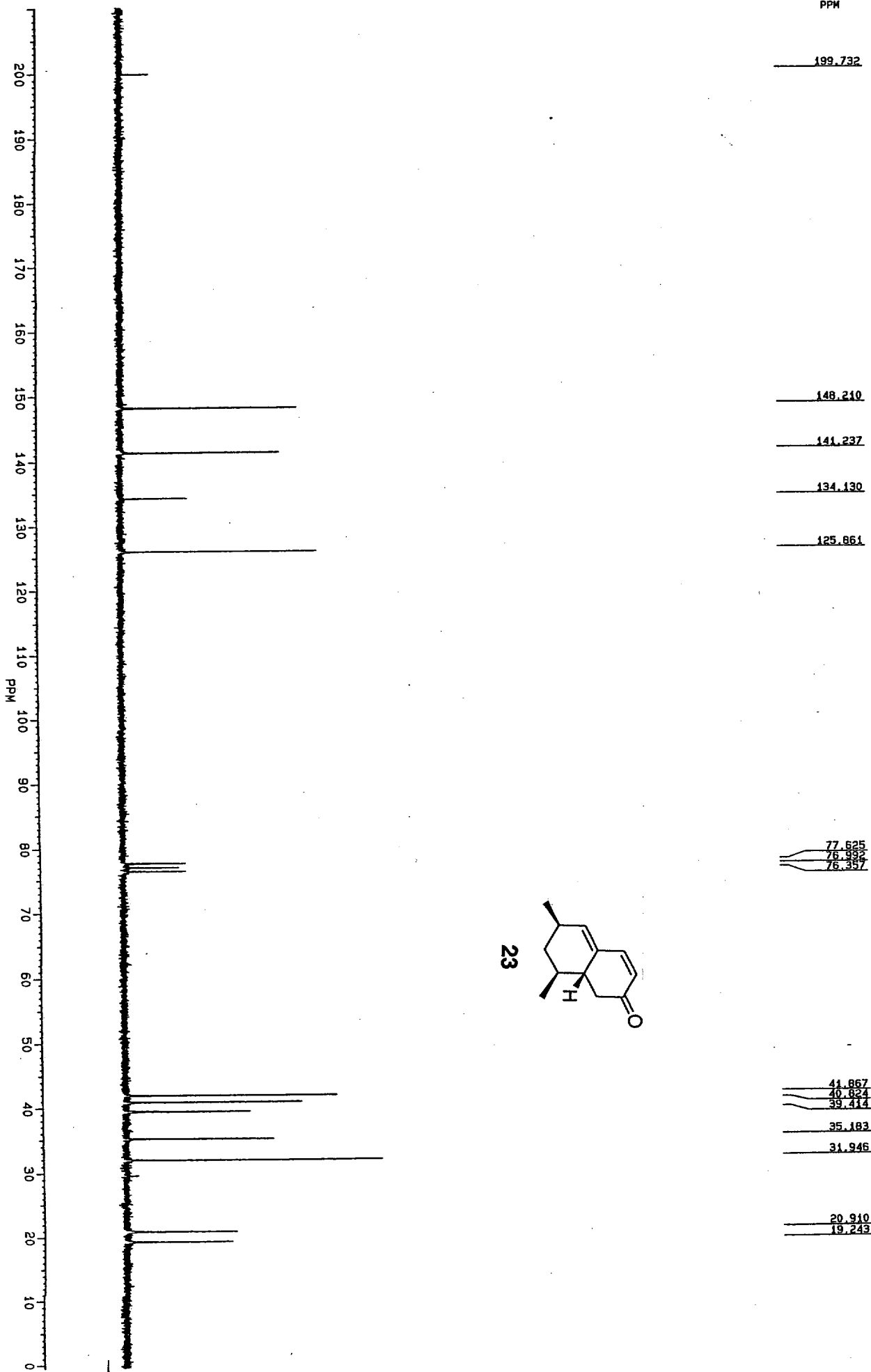
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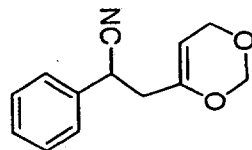
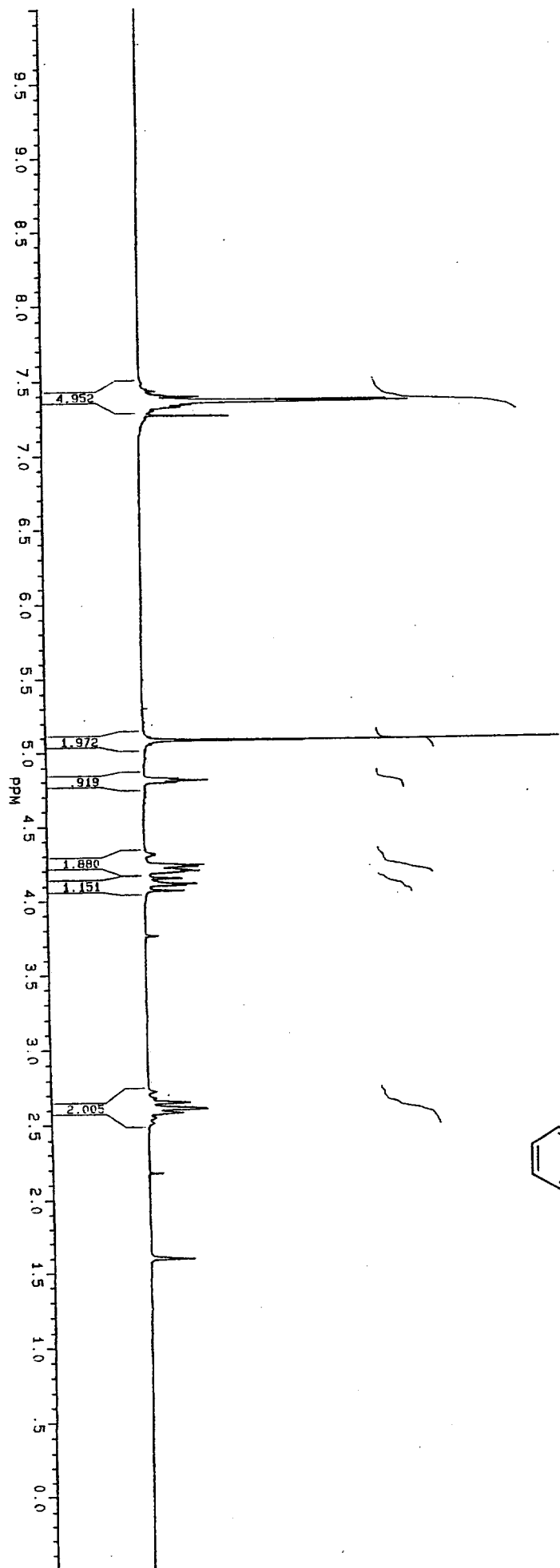
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 PC 1.00

1D NMR plot parameters  
 CX 20.00 cm  
 F1P 8.000 ppm  
 F1 3201.04 Hz  
 F2P 0.000 ppm  
 F2 0.00 Hz  
 PPMCM 0.40000 ppm/cm  
 HZCM 160.05200 Hz/cm



PPM

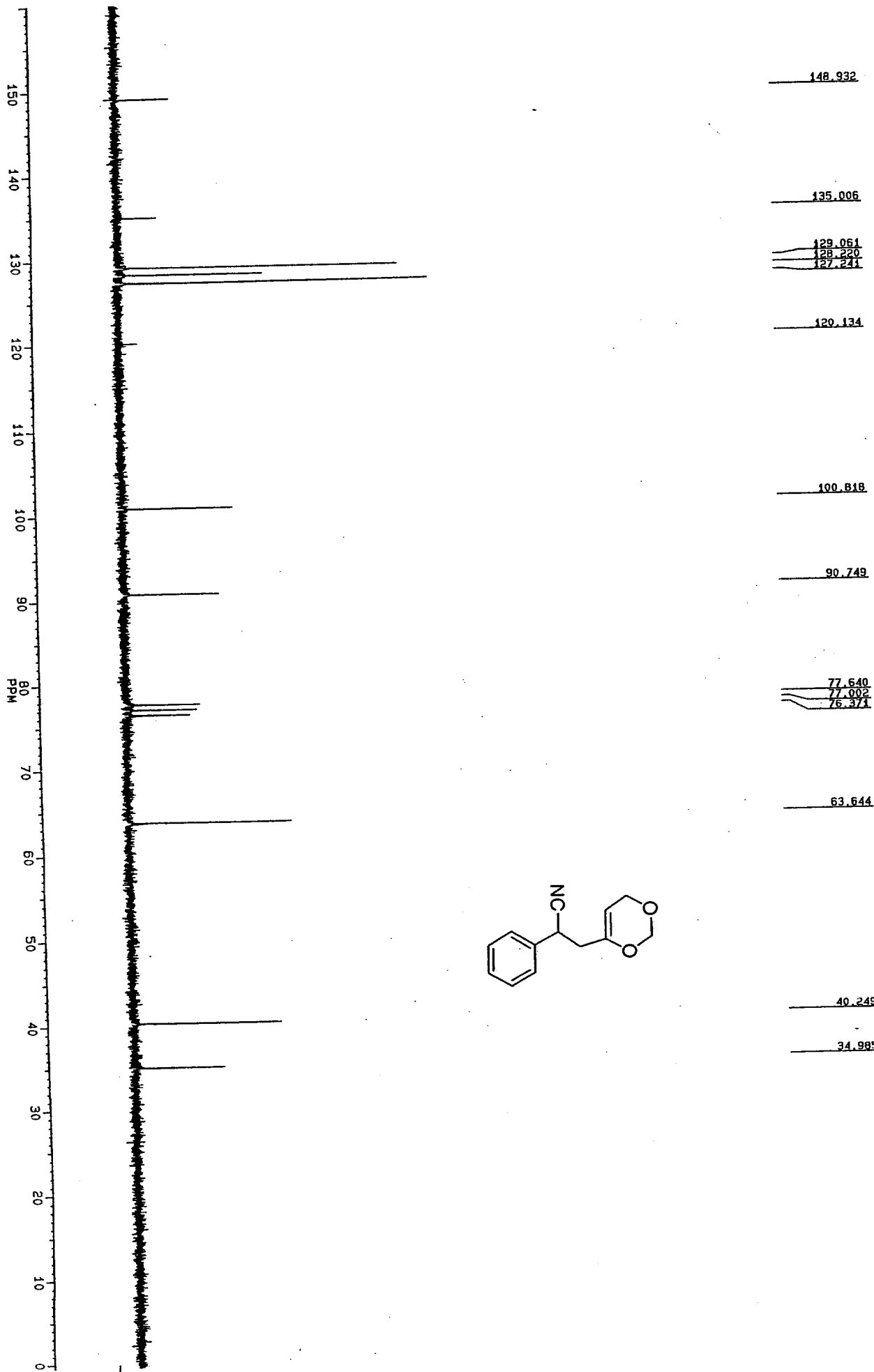


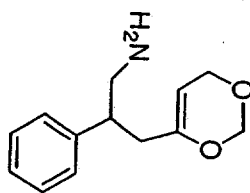
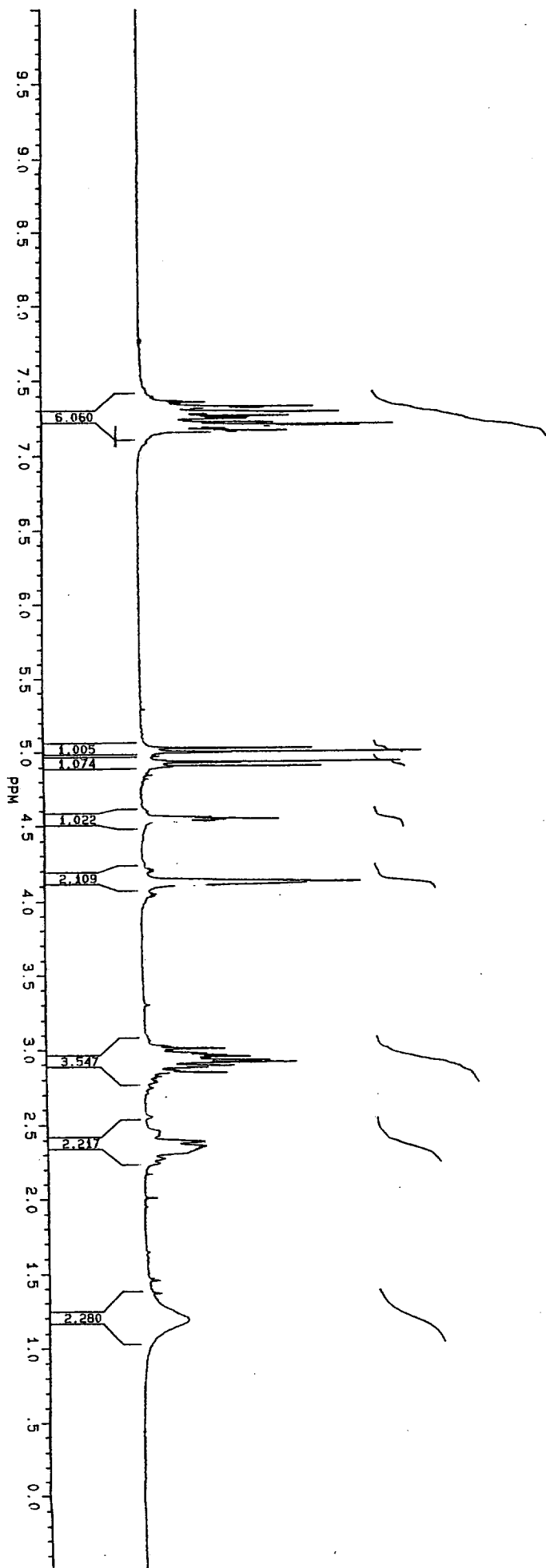


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1481.27
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1476.08
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1469.11
1467.98
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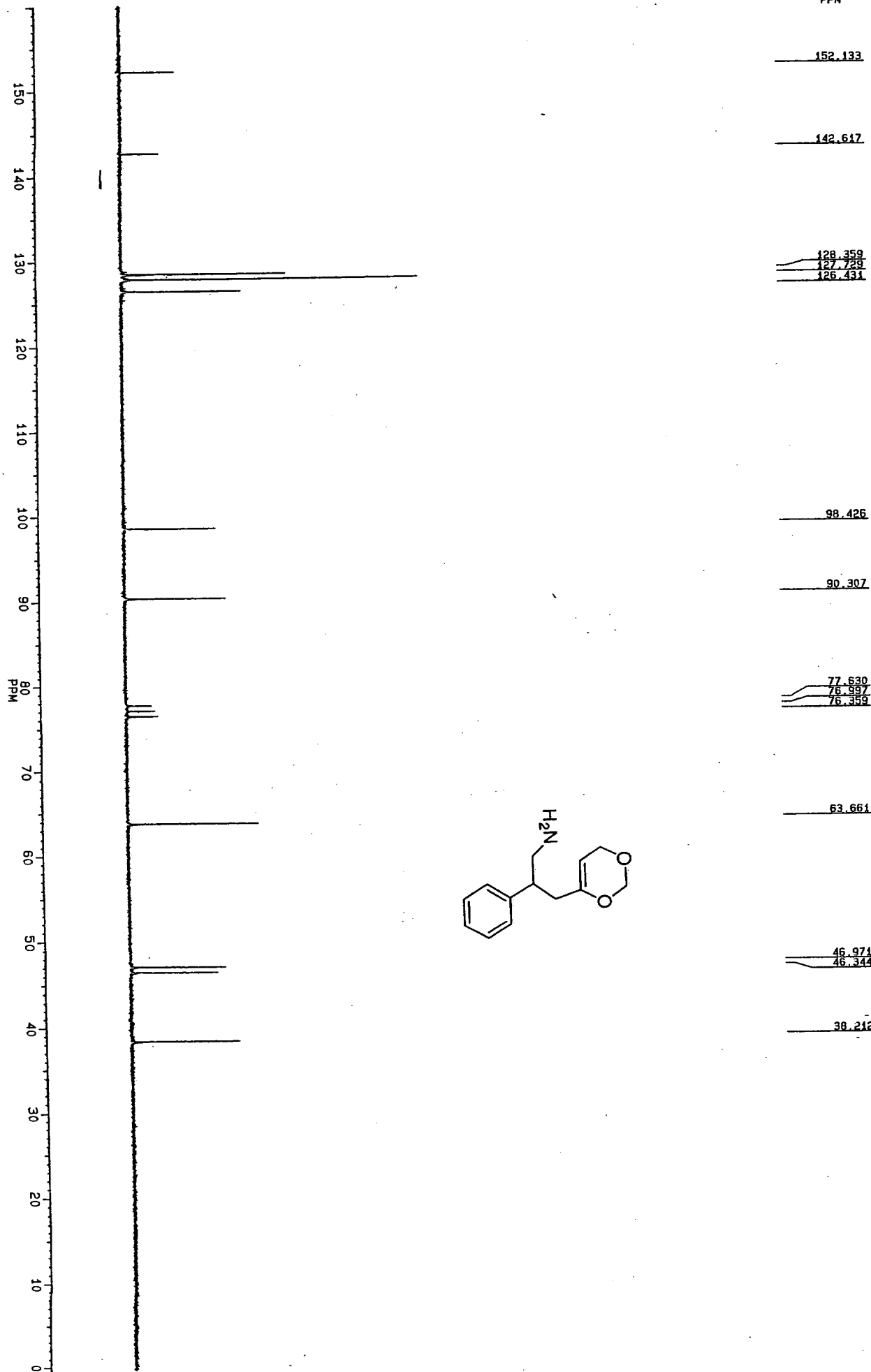
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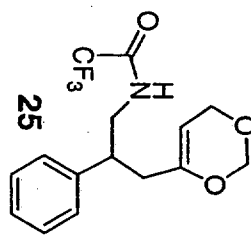
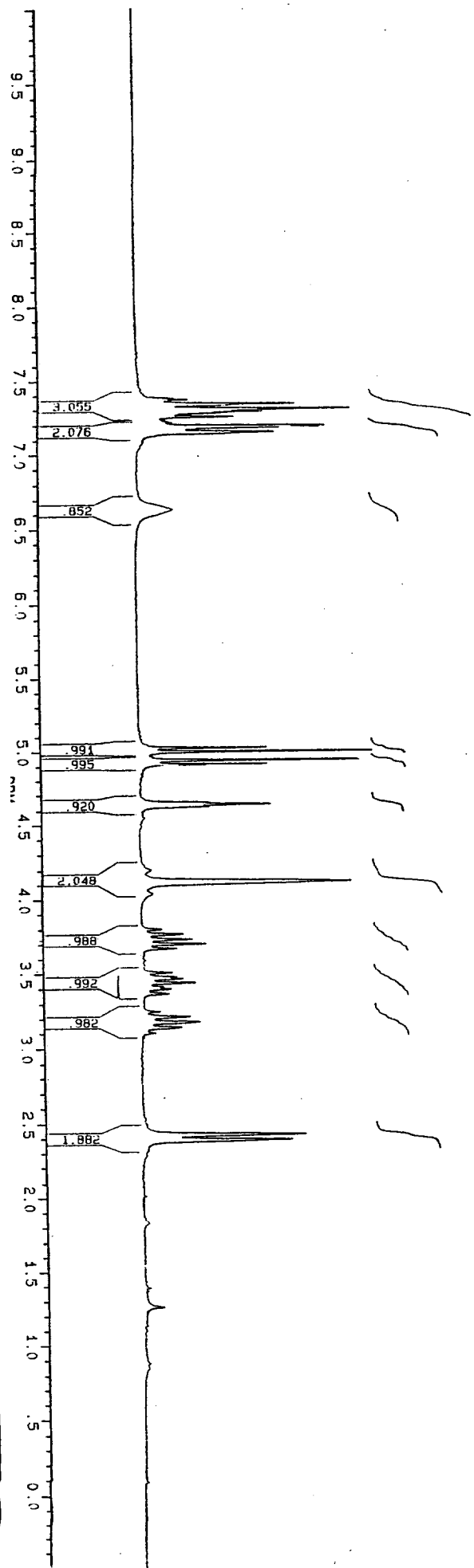




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1456.18
1456.63
1451.64
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828.52
827.07
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599.29
595.29
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589.03
586.07
583.39
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238.83



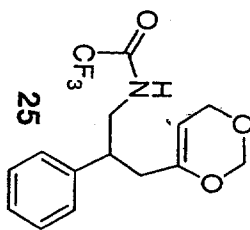
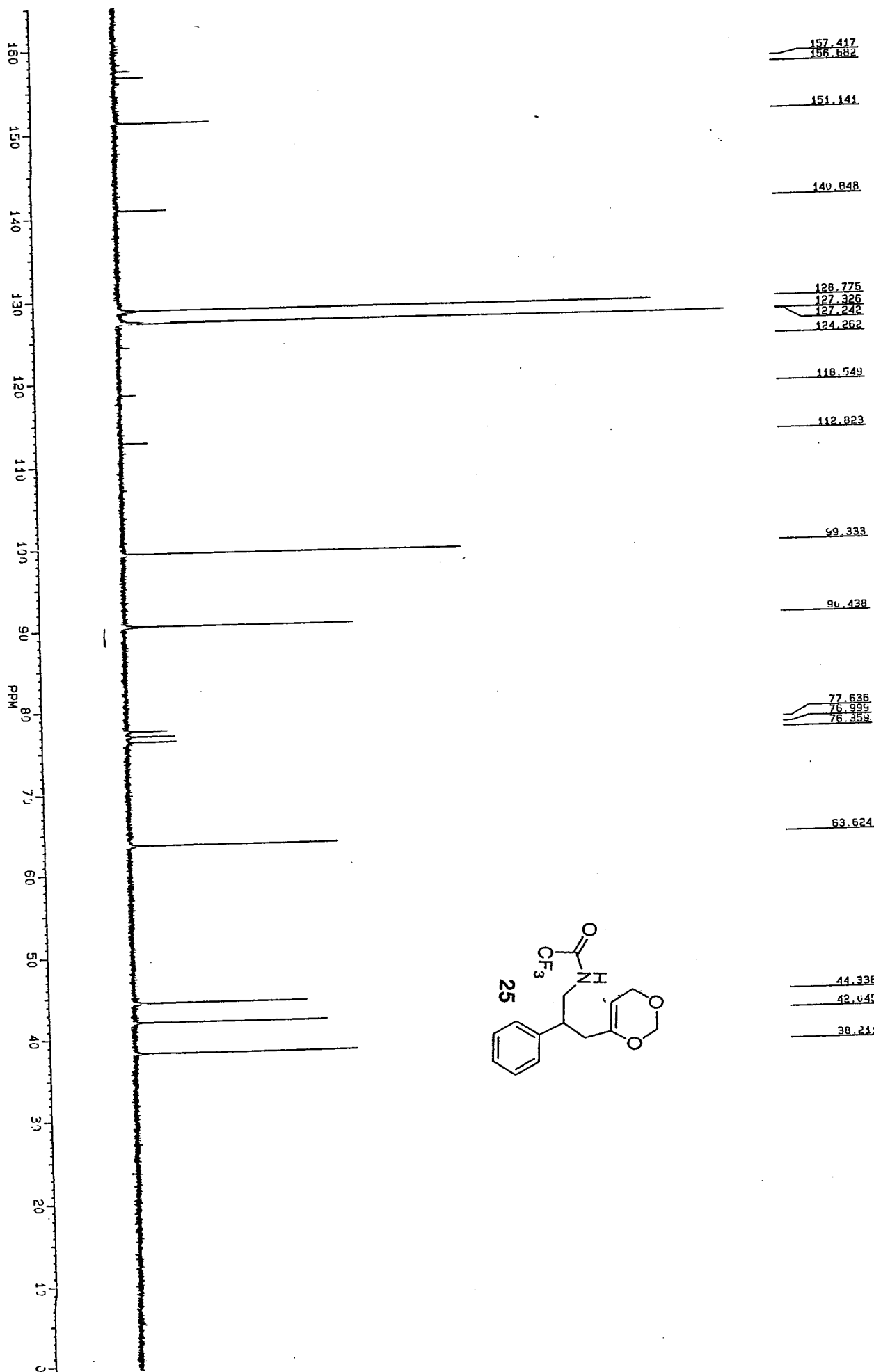


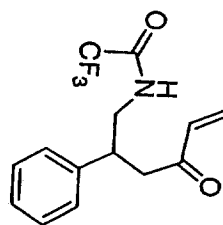
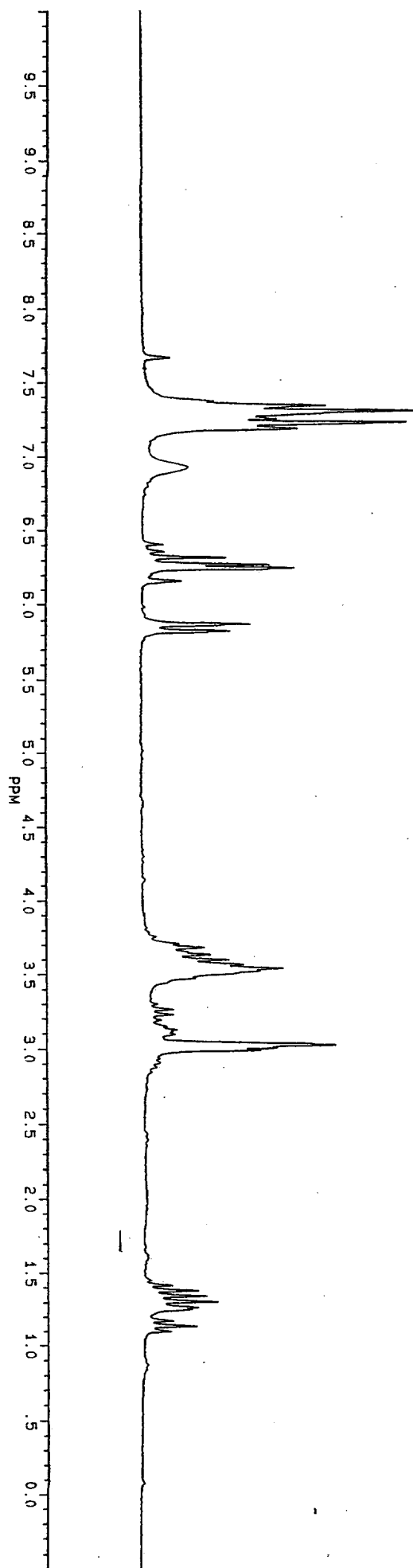
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1442.77
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1326.69

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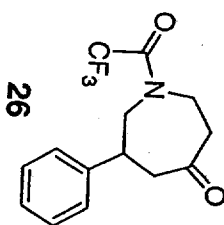
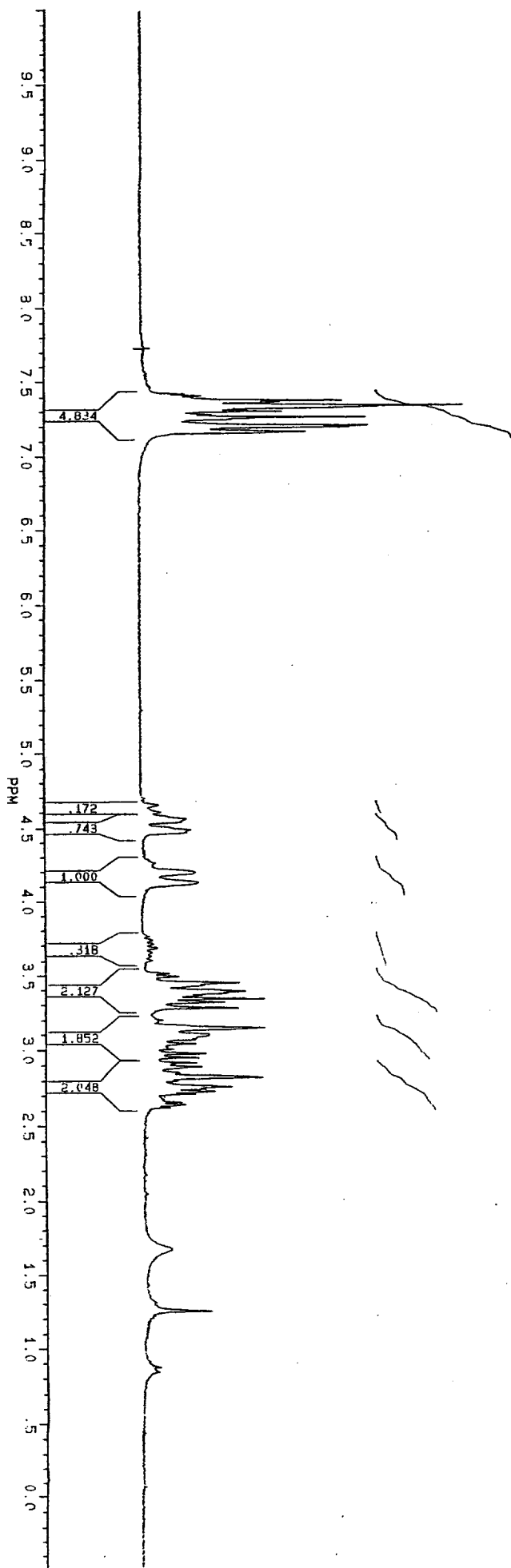
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251.68
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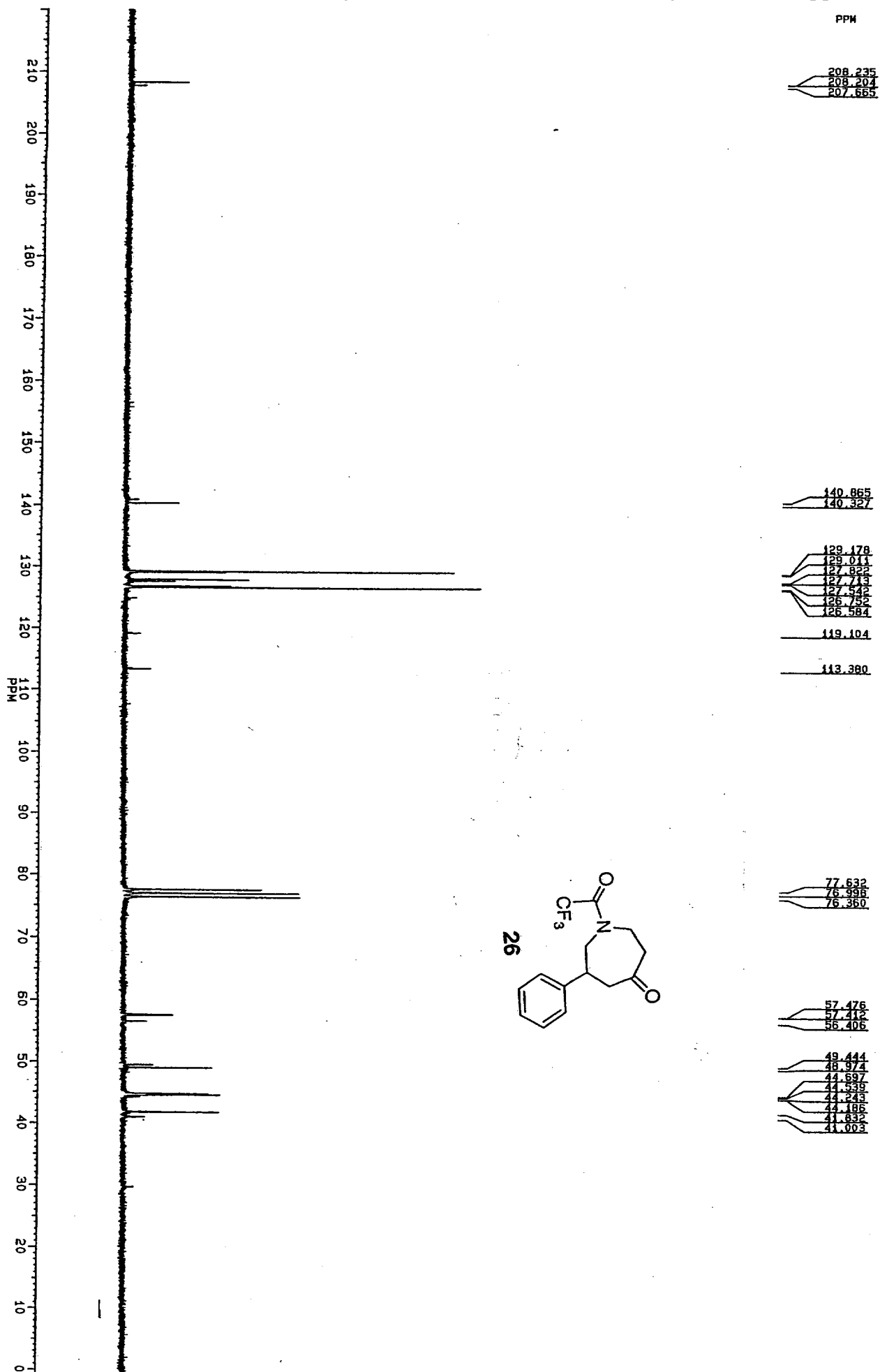
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1439.85
1433.71

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395.06

261.70
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175.29
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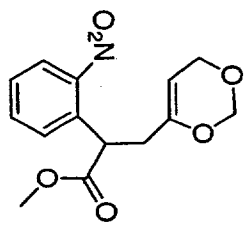
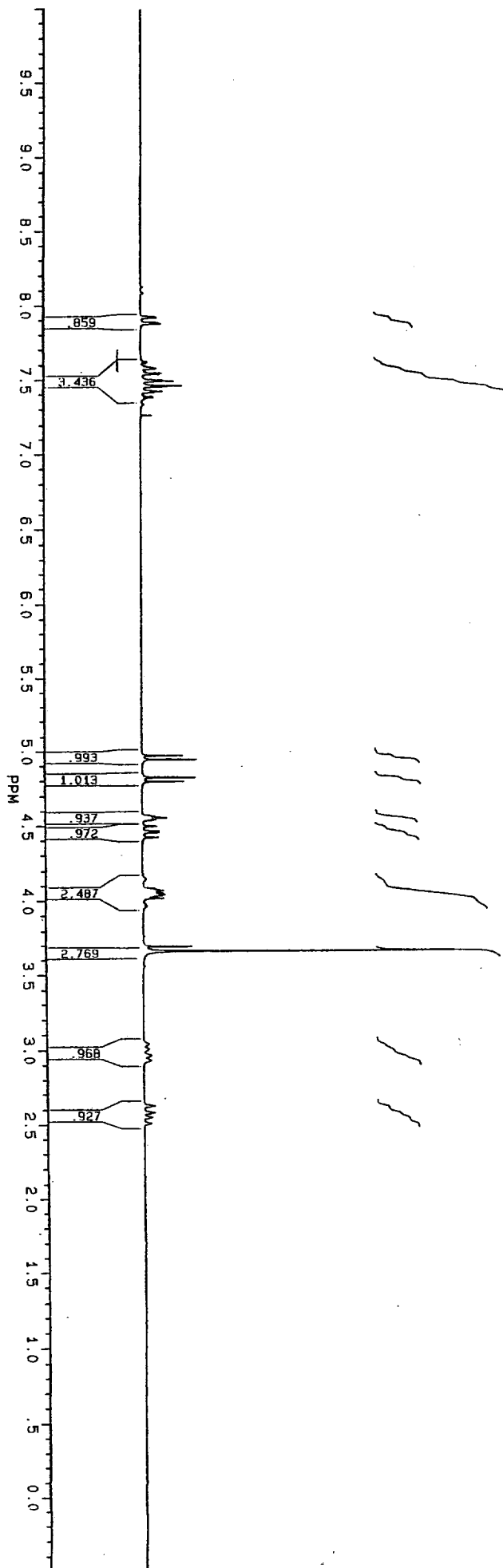
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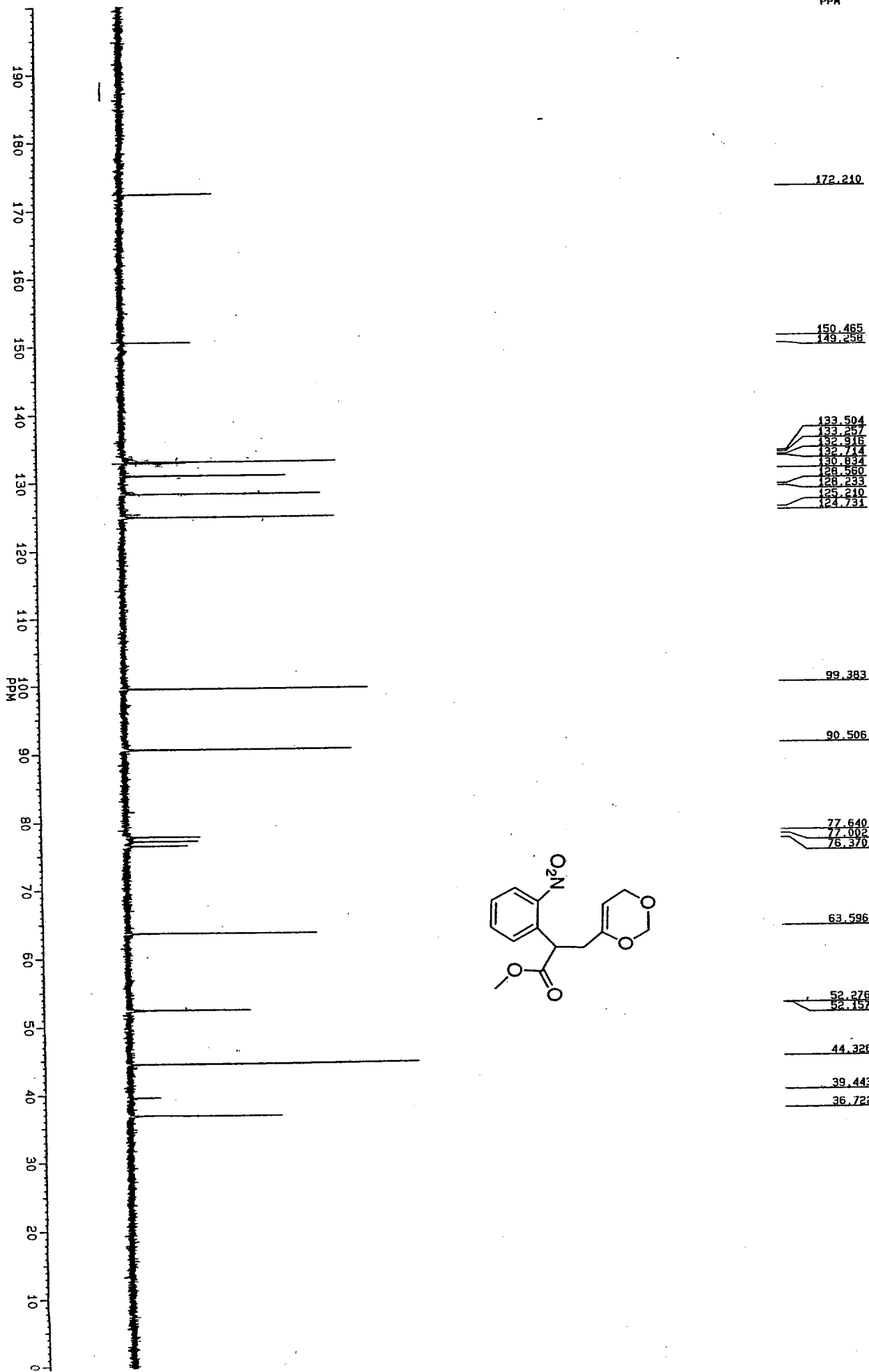
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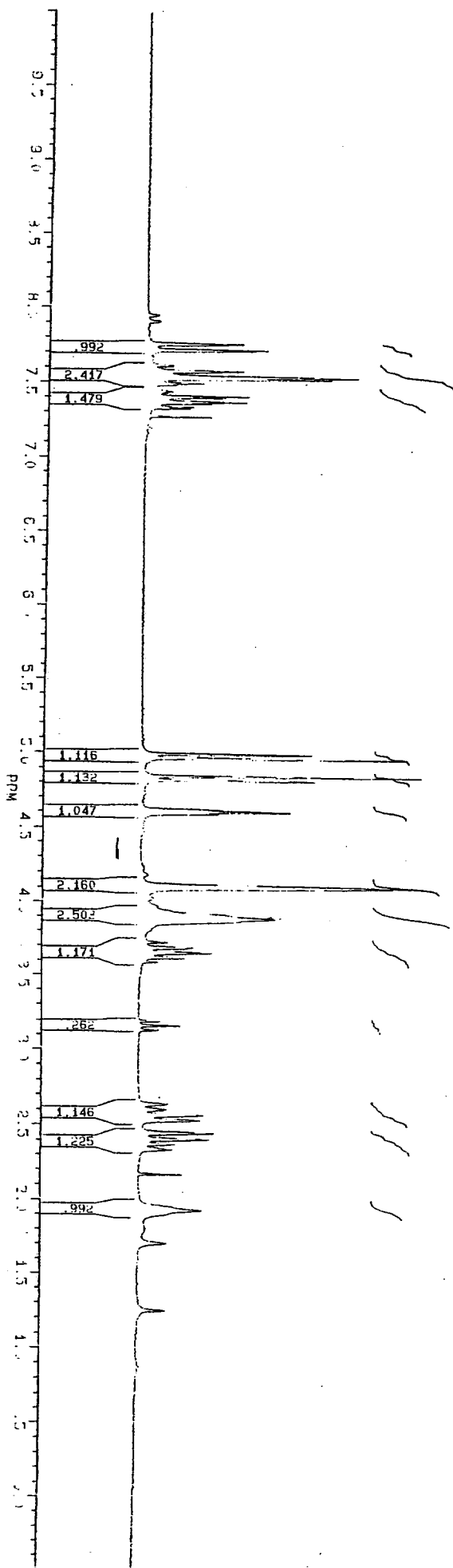
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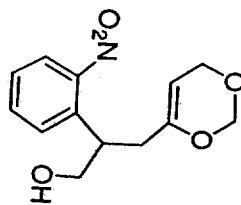
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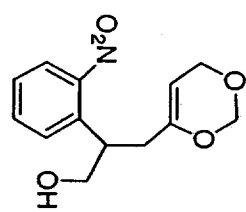
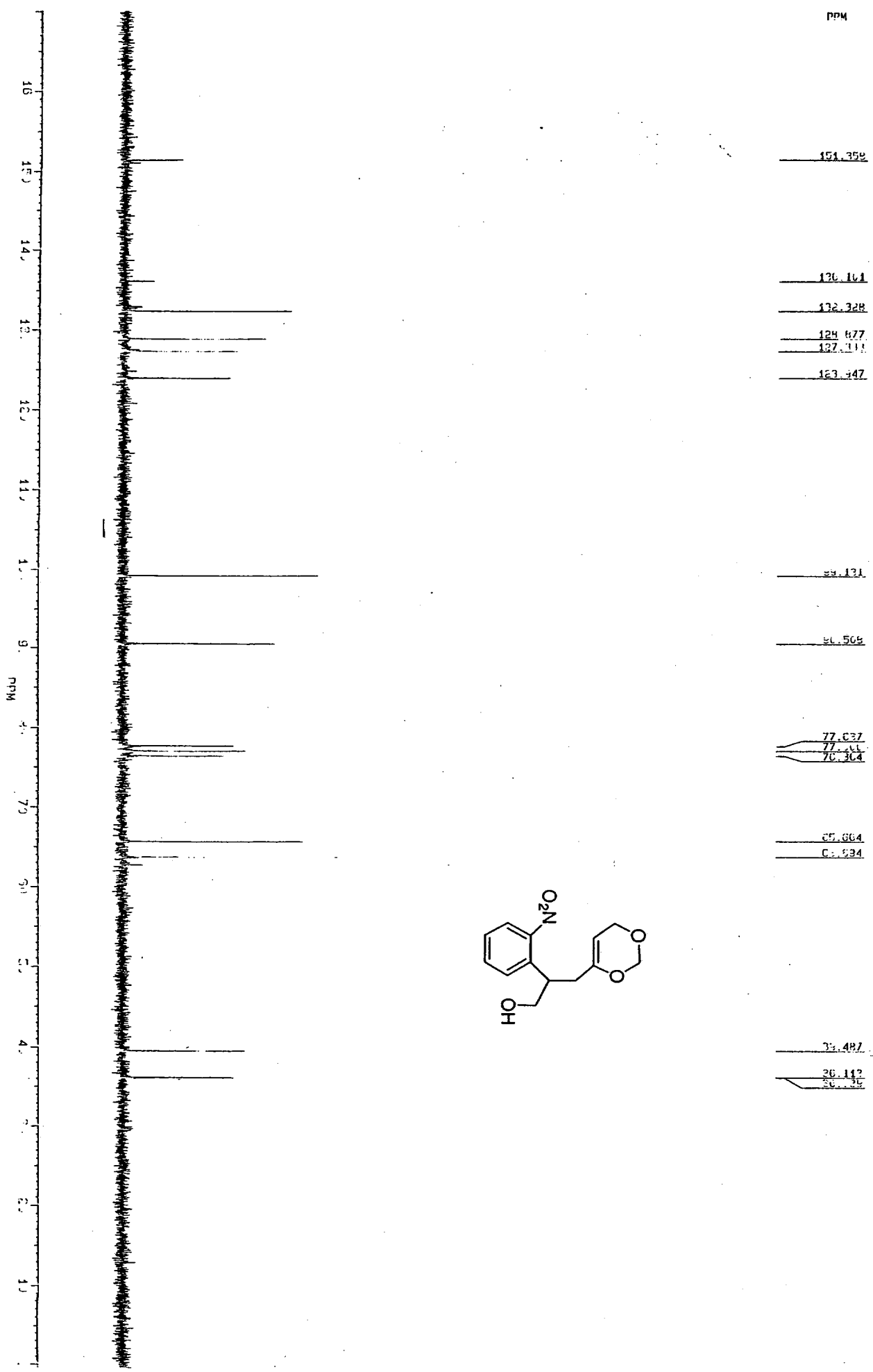
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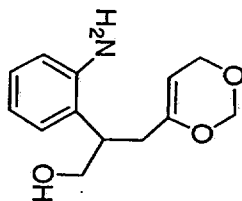
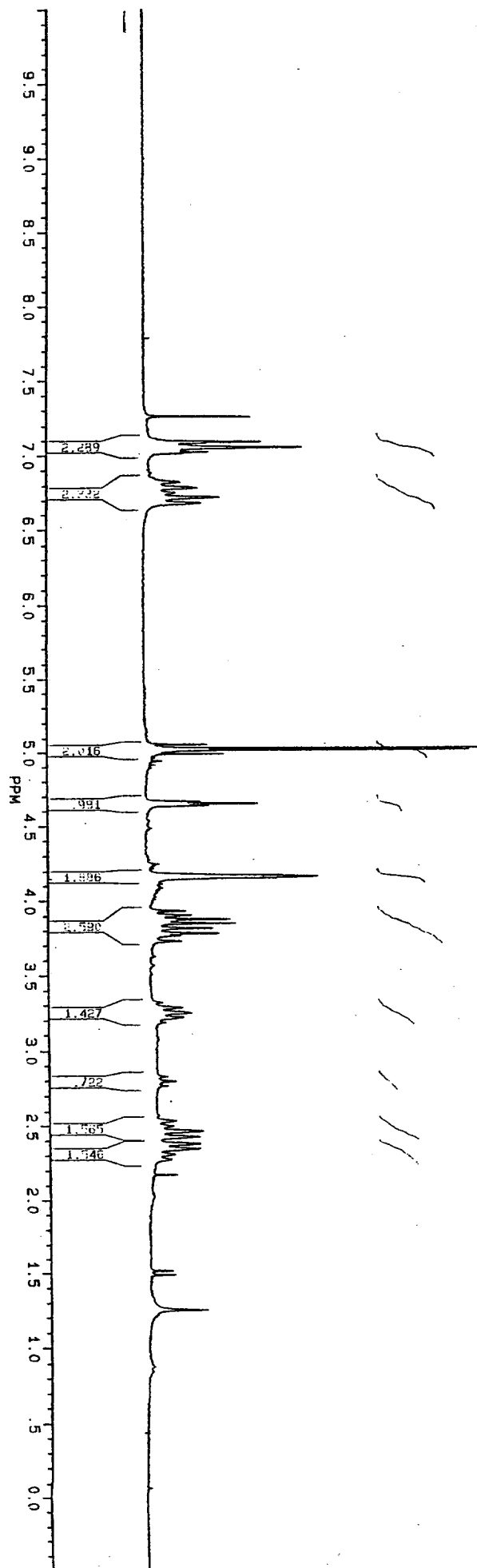
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345.11
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249.49
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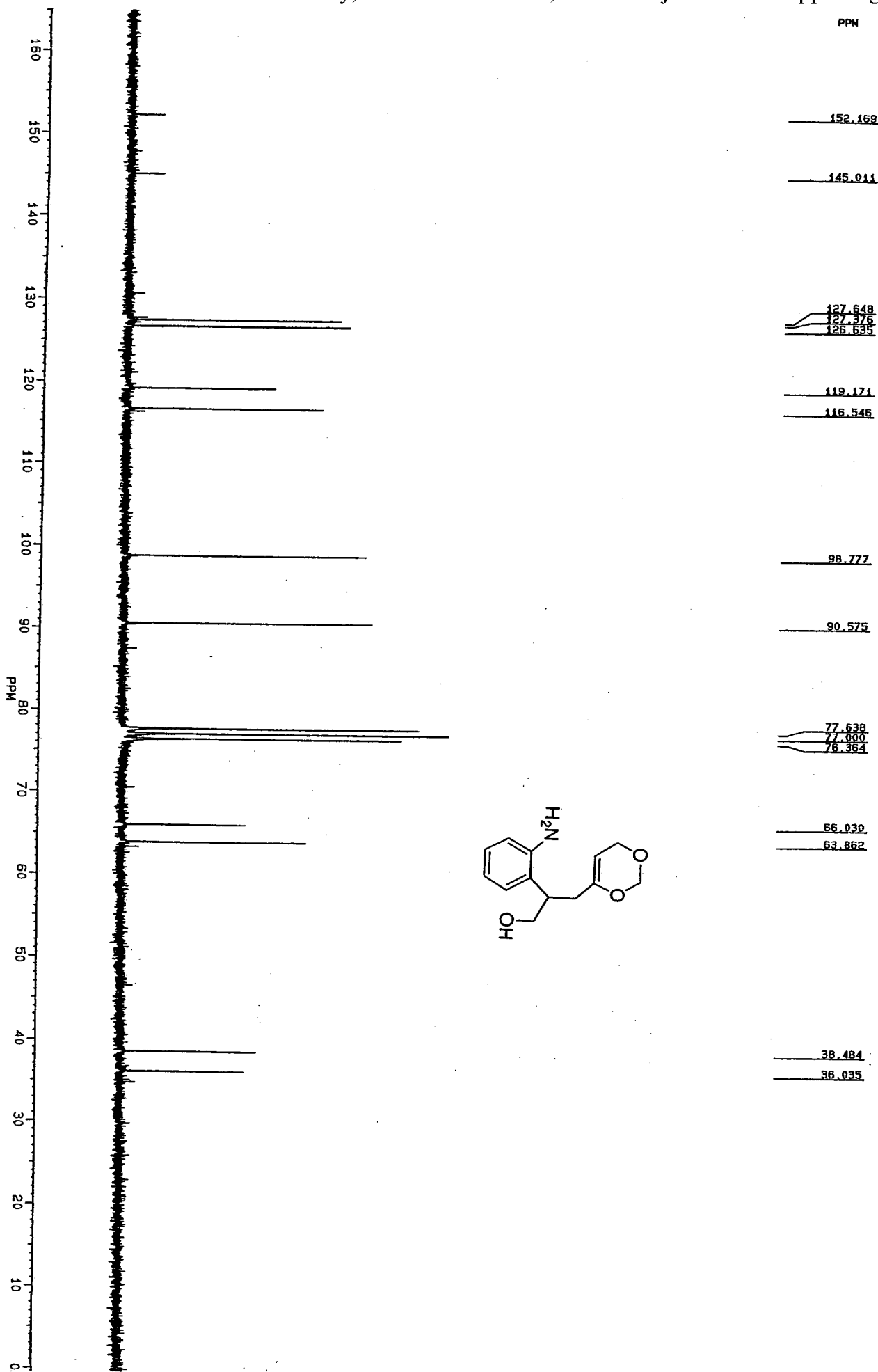




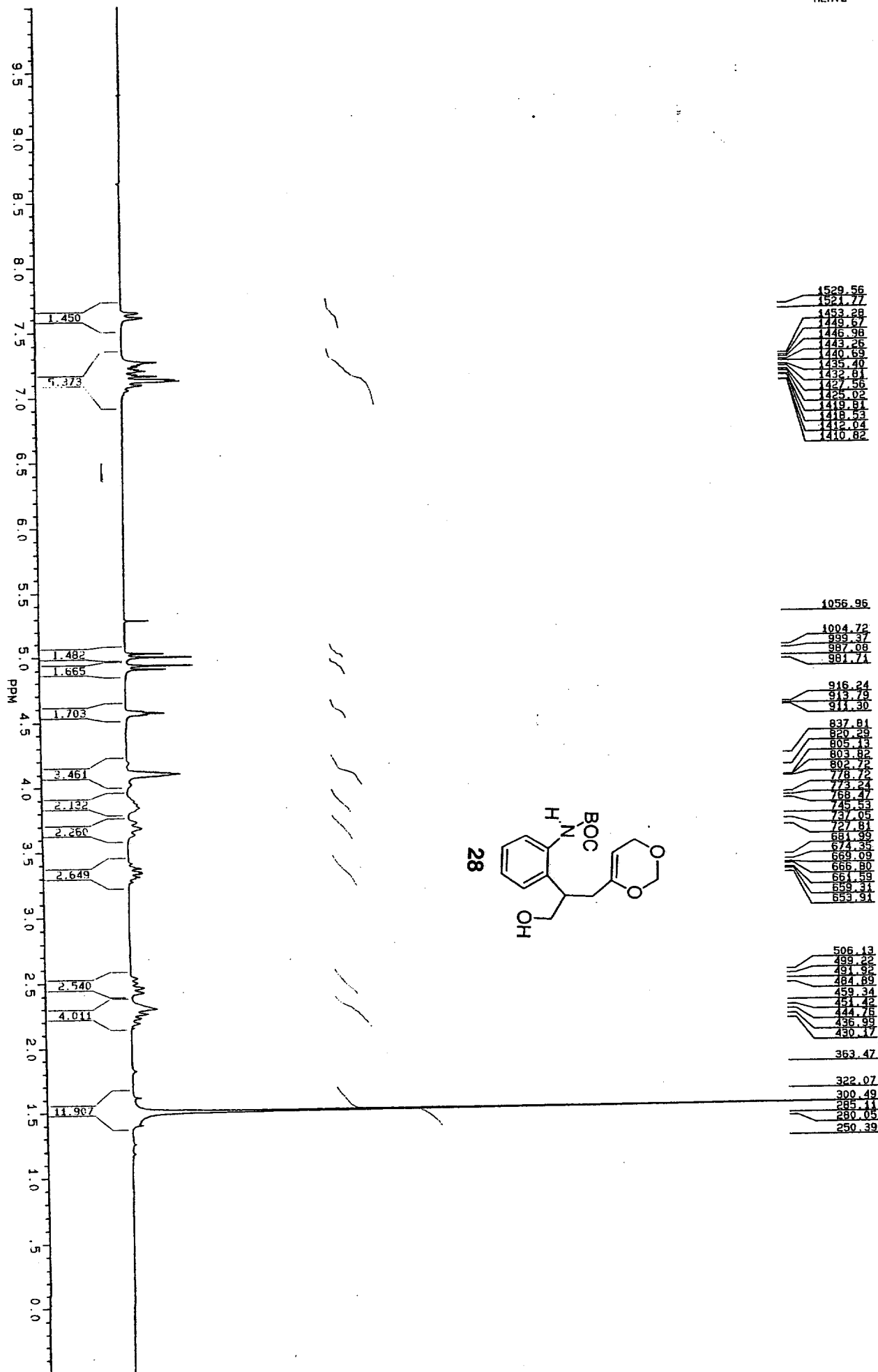
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- 1337.21

- 1014.86
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- 644.23
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- 625.52
- 628.40
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- 607.63
- 499.75
- 493.05
- 485.21
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- 303.13
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- 250.68

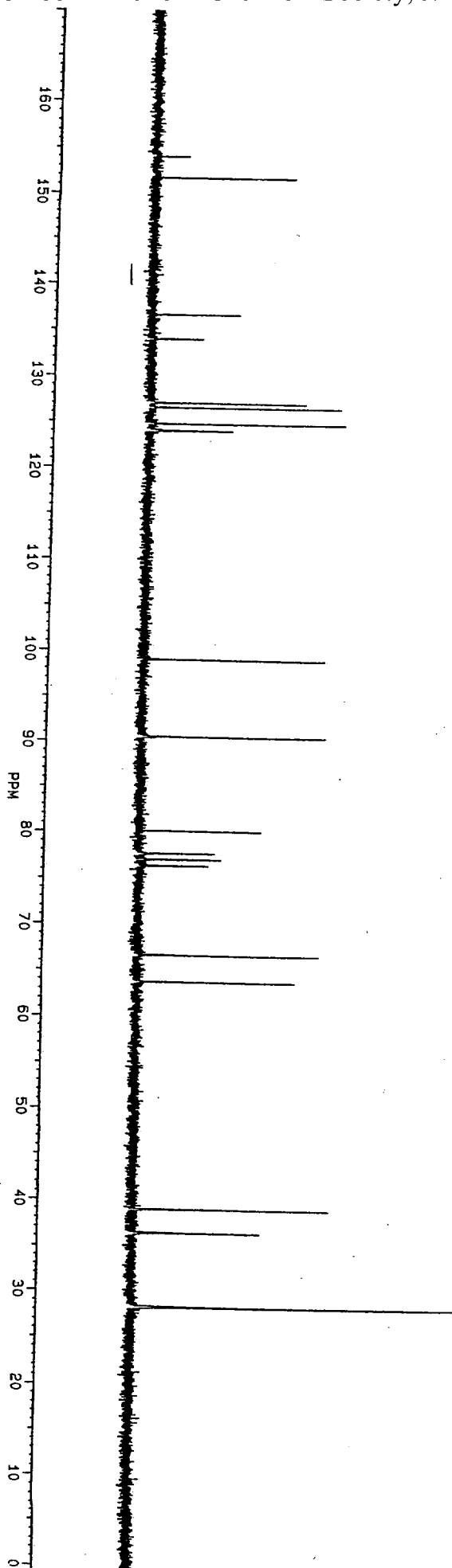




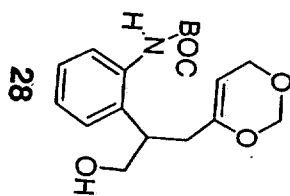


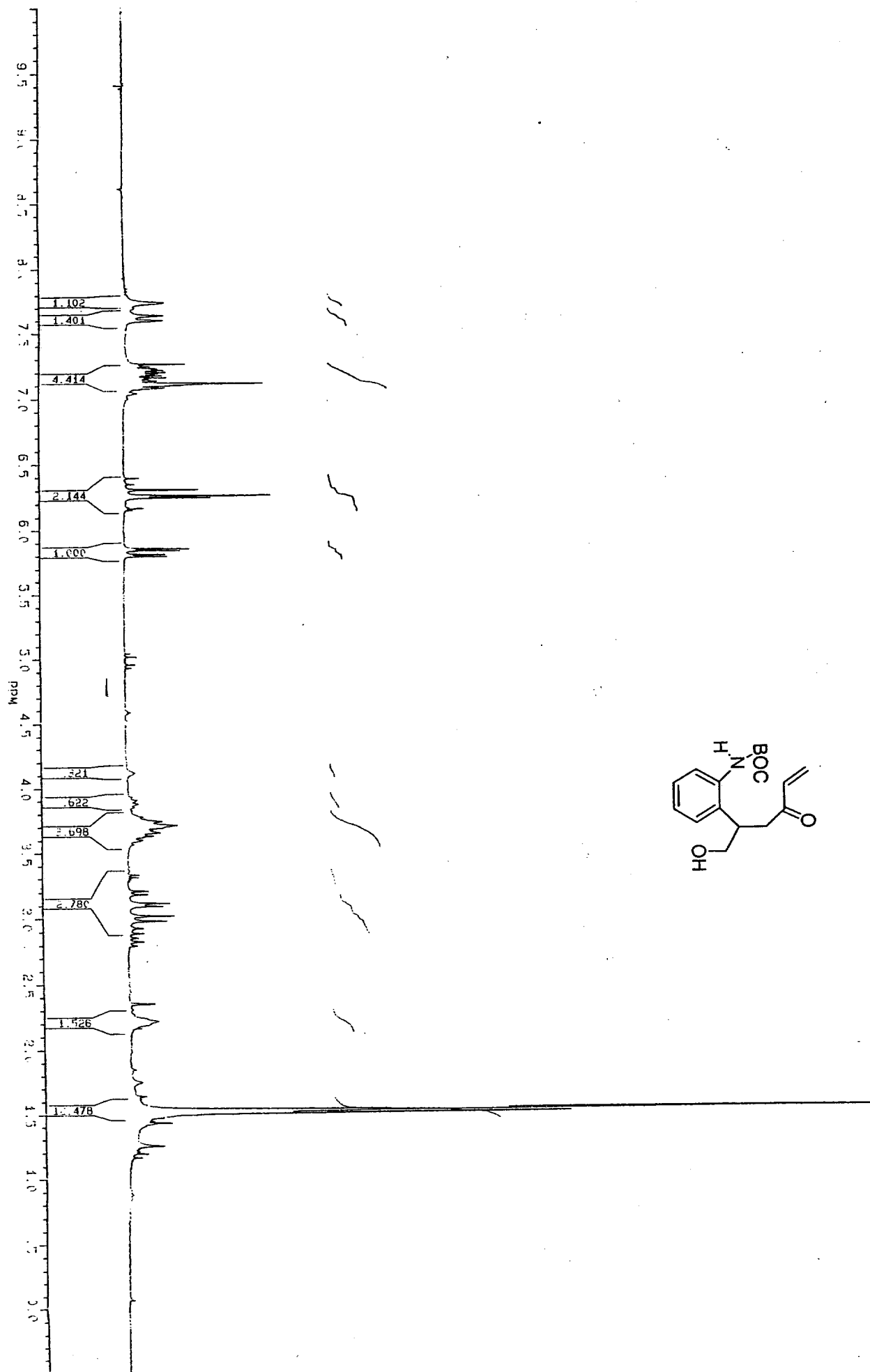
PPM

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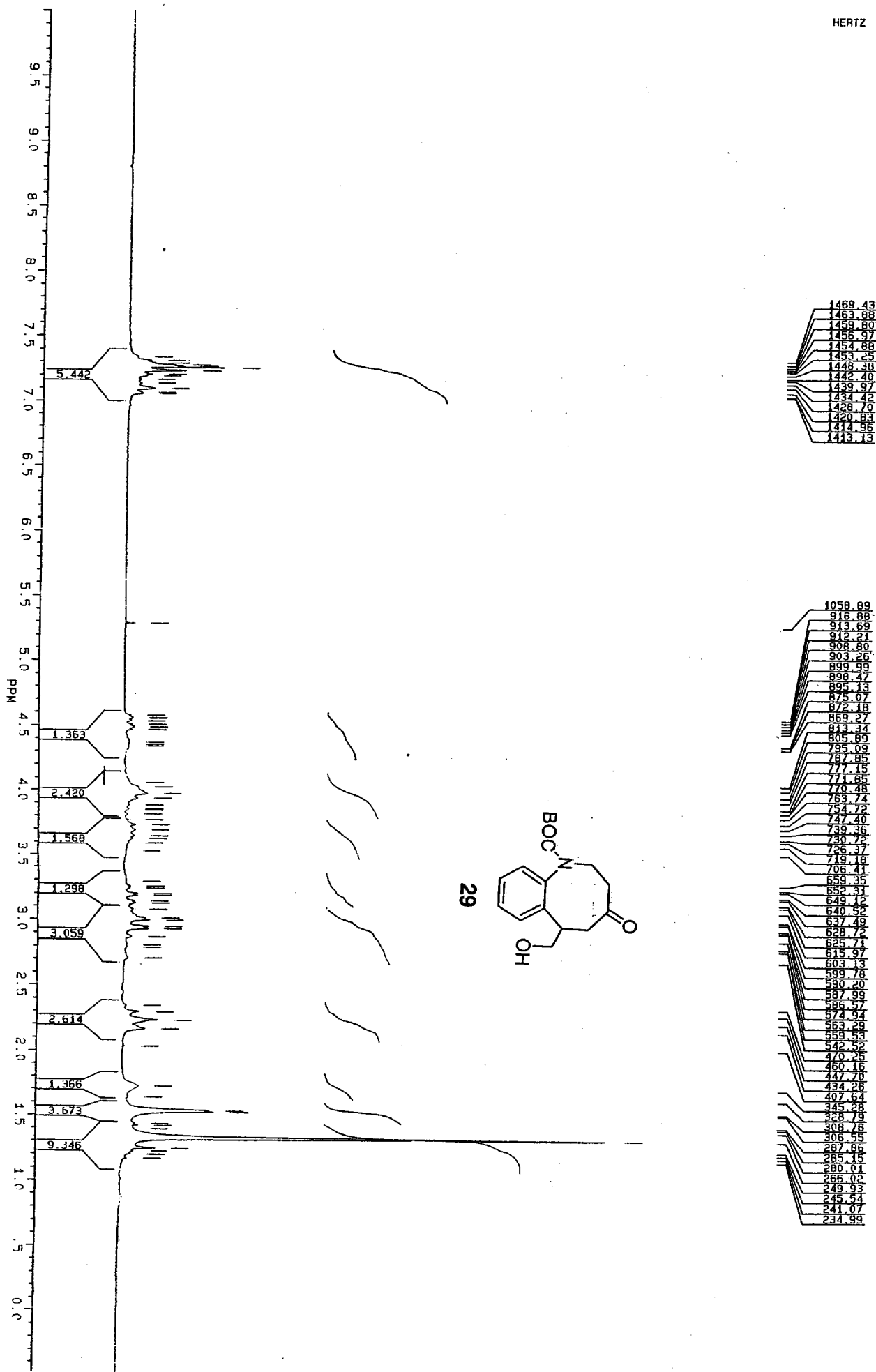
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36.348
28.320

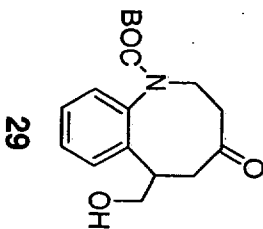
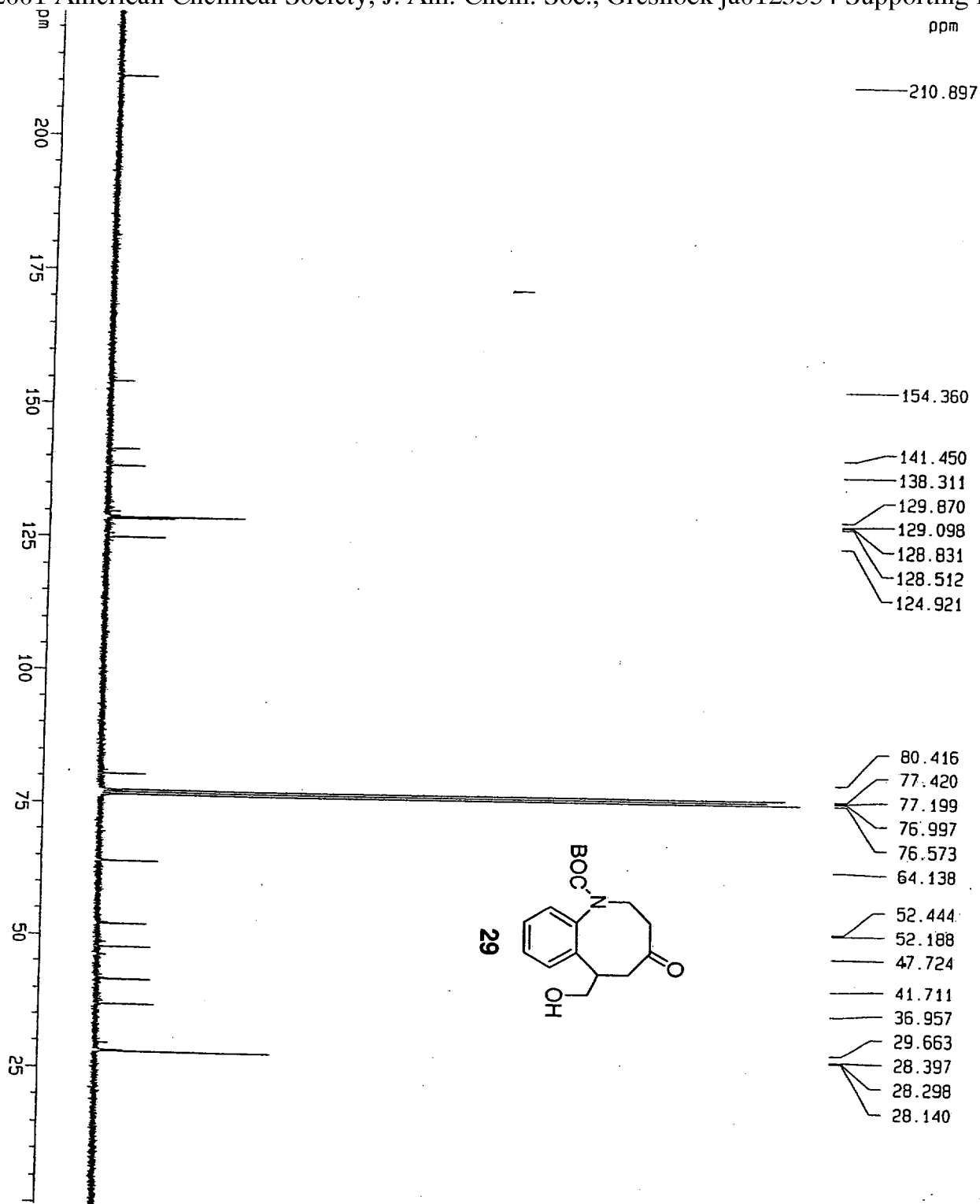




HERTZ

108





- 210.897
- 154.360
- 141.450
- 138.311
- 129.870
- 129.098
- 128.831
- 128.512
- 124.921
- 80.416
- 77.420
- 77.199
- 76.997
- 76.573
- 64.138
- 52.444
- 52.188
- 47.724
- 41.711
- 36.957
- 29.663
- 28.397
- 28.298
- 28.140

Current Data Parameters  
 NAME Funk-06-09-01  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20010610  
 Time 10.16

INSTRUM spect  
 PROBRD 5 mm Multinu  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT CDCl3  
 NS 17408  
 DS 4

SMH 18832.393 Hz  
 FIDRES 0.287360 Hz  
 AQ 1.7400308 sec  
 RG 16384  
 DW 26.550 usec  
 DE 6.00 usec  
 TE 300.0 K

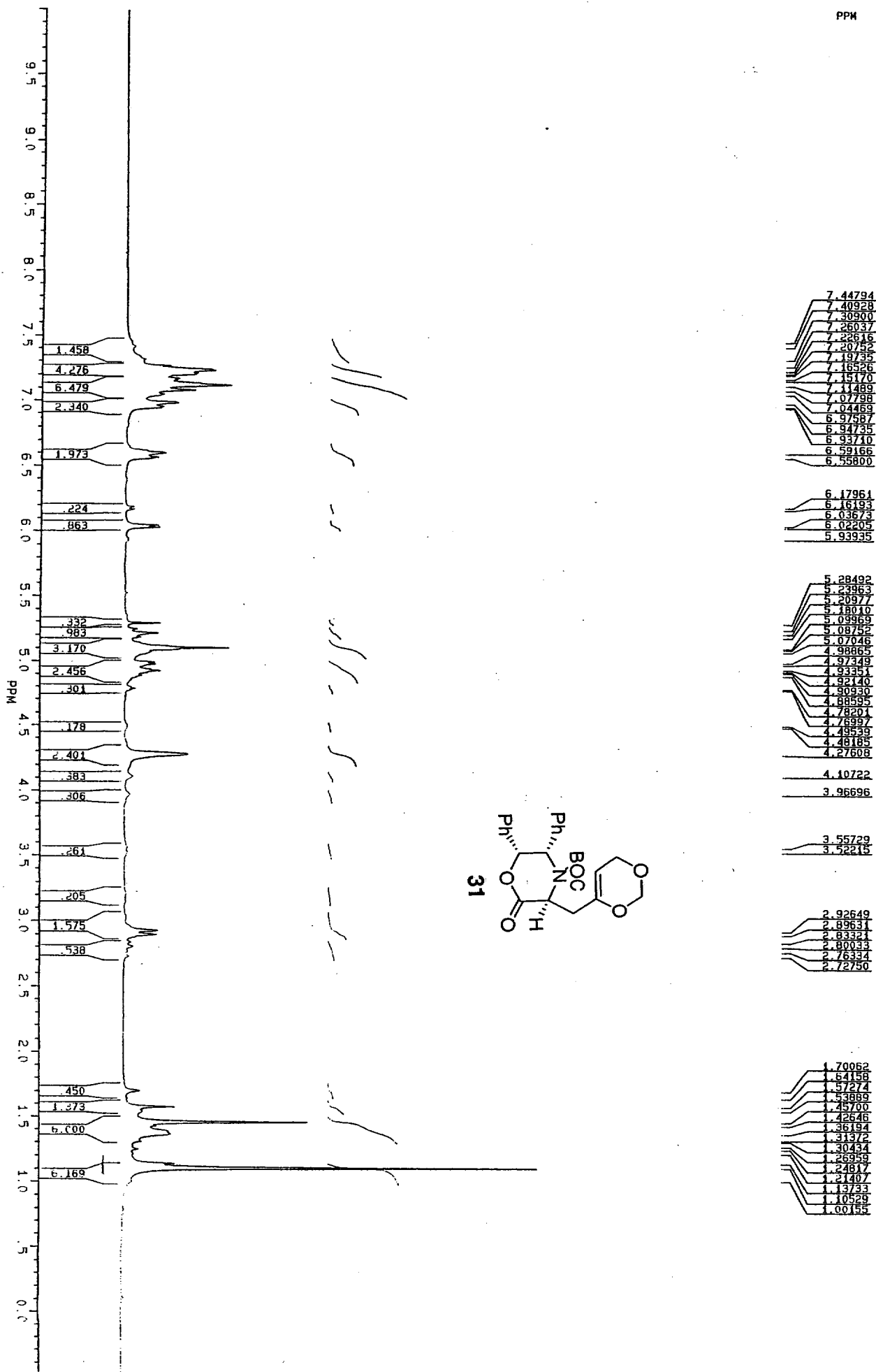
D1 2.00000000 sec  
 d11 0.03000000 sec  
 d12 0.00002000 sec

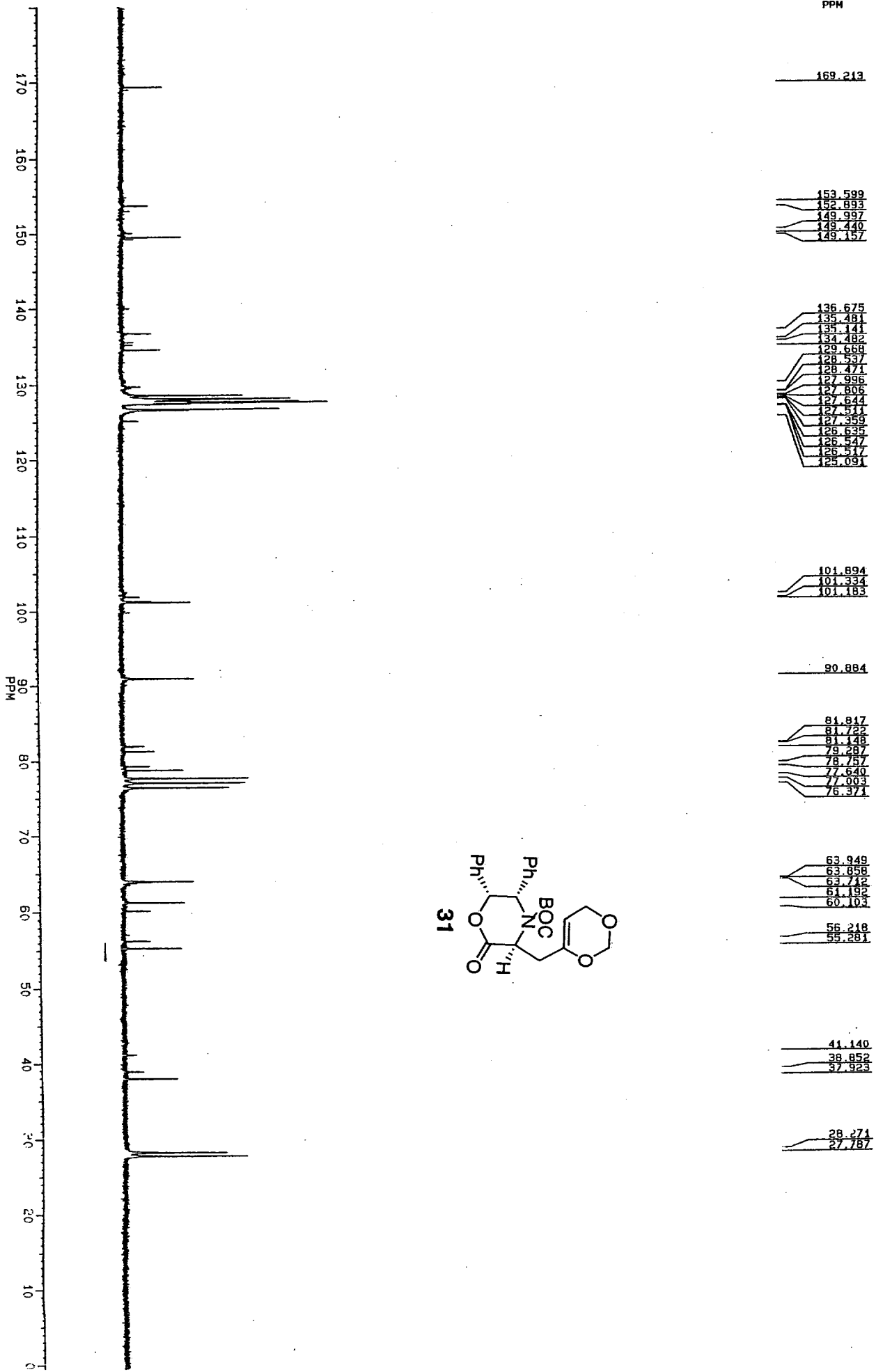
\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
 NUC1 13C  
 P1 5.60 usec  
 PL1 -6.00 dB  
 SF01 75.4760200 MHz

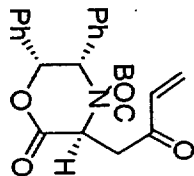
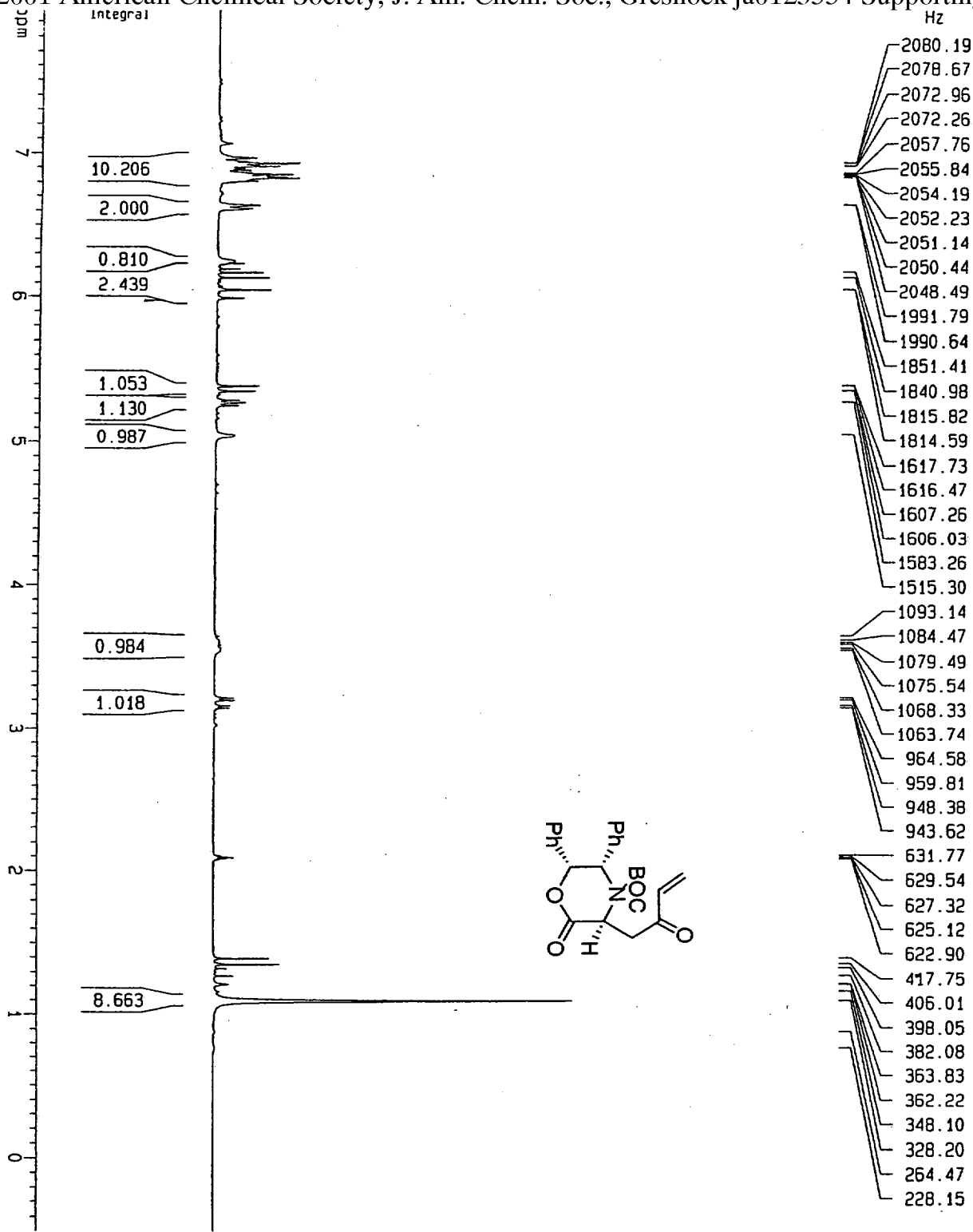
\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
 CPOPRG2 waltz16  
 NUC2 1H  
 PCPD2 114.00 usec  
 PL2 -6.00 dB  
 PL12 18.00 dB  
 PL13 18.00 dB  
 SF02 300.1312005 MHz

F2 - Processing Parameters  
 SI 32768  
 SF 75.4673934 MHz  
 MDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.40

ID NMR plot parameters  
 CX 20.00 cm  
 FIP 225.000 ppm  
 F1 16980.16 Hz  
 F2P -0.500 ppm  
 F2 -37.73 Hz  
 PPGCM 11.27500 ppm/cm  
 HZCM 850.89484 Hz/cm







Current Data Parameters  
 NAME Funk-06-23-01  
 EXPNO 5  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20010623  
 Time 13.31  
 INSTRUM spect  
 PROBD 5 mm Multinu  
 PULPROG zg30  
 TD 65536  
 SOLVENT T01  
 NS 16  
 DS 2  
 SWH 6172.839 Hz  
 FIDRES 0.094190 Hz  
 AQ 5.3084660 sec  
 RG 322.5  
 DW 81.000 usec  
 DE 5.00 usec  
 TE 300.0 K  
 D1 1.00000000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
 NUC1 1H  
 P1 9.80 usec  
 PL1 -6.00 dB  
 SFO1 300.1318534 MHz

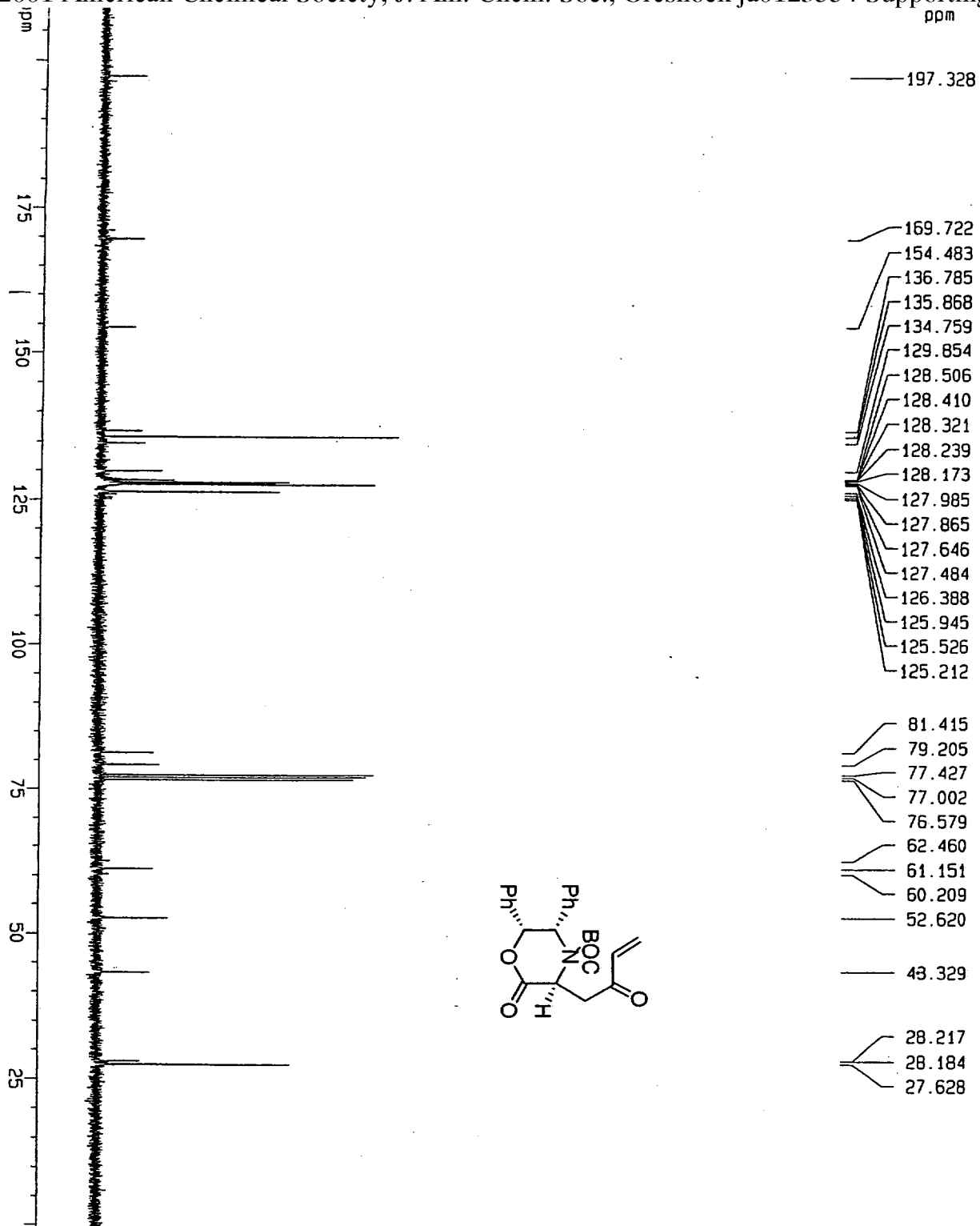
F2 - Processing parameters  
 SI 32768  
 SF 300.1300488 MHz  
 MDW no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.00

1D NMR plot parameters  
 CX 20.00 cm  
 F1P 8.000 ppm  
 F1 2401.04 Hz  
 F2P -0.500 ppm  
 F2 -150.07 Hz  
 PPKICK 0.42500 ppm/cm  
 HZCM 127.55527 Hz/cm

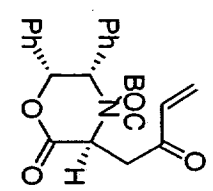


ppm

113



- 197.328
- 169.722
- 154.483
- 136.785
- 135.868
- 134.759
- 129.854
- 128.506
- 128.410
- 128.321
- 128.239
- 128.173
- 127.985
- 127.865
- 127.646
- 127.484
- 126.388
- 125.945
- 125.526
- 125.212
- 81.415
- 79.205
- 77.427
- 77.002
- 76.579
- 62.460
- 61.151
- 60.209
- 52.620
- 43.329
- 28.217
- 28.184
- 27.628



Current Data Parameters  
 NAME Funk-05-23-01  
 EXPNO 2  
 PROCNO 1

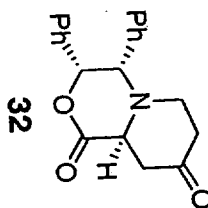
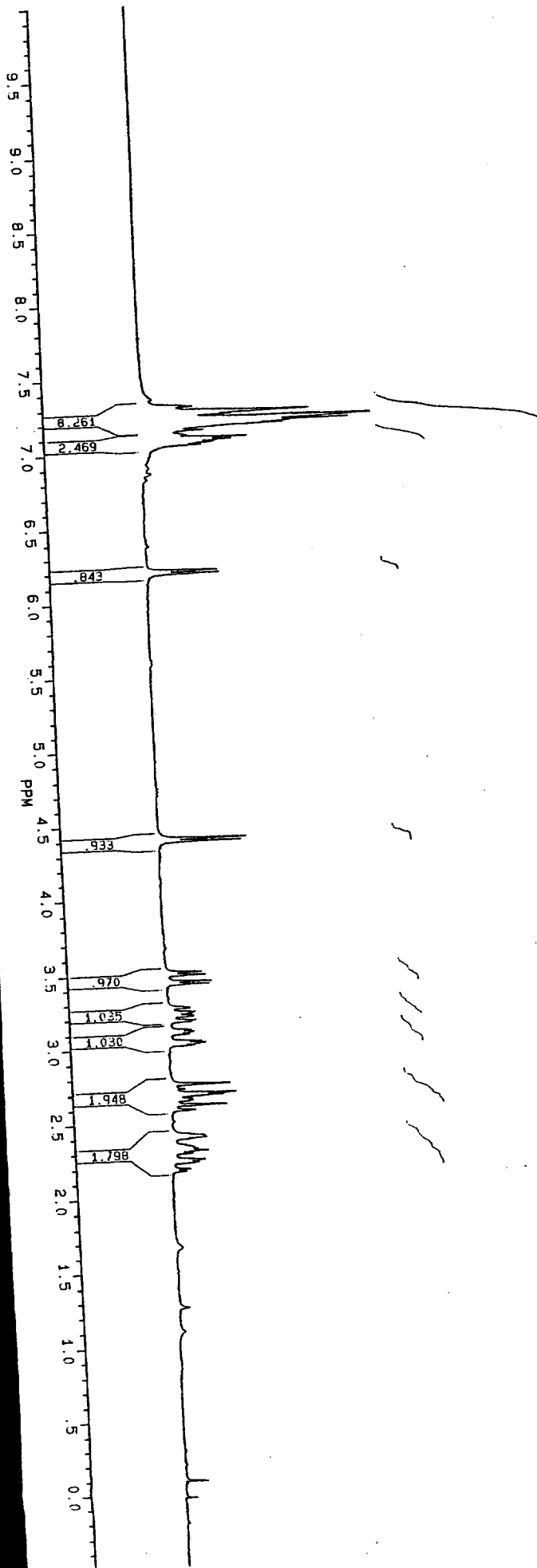
F2 - Acquisition Parameters  
 Date\_ 20010623  
 Time 11.39  
 INSTRUM spect  
 PROBHD 5 mm Multinu  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT CDCl3  
 NS 1024  
 DS 4  
 SMH 18832.393 Hz  
 FIDRES 0.287360 Hz  
 AQ 1.7400308 sec  
 RG 16384  
 DM 26.550 usec  
 DE 6.00 usec  
 TE 300.0 K  
 D1 2.00000000 sec  
 d11 0.03000000 sec  
 d12 0.00002000 sec

CHANNEL f1  
 NUC1 13C  
 P1 5.60 usec  
 PL1 -6.00 dB  
 SF01 75.4760200 MHz

CHANNEL f2  
 CPDPRG2 waitz16  
 NUC2 1H  
 PCPD2 114.00 usec  
 PL2 -6.00 dB  
 PL12 18.00 dB  
 PL13 18.00 dB  
 SF02 300.1312005 MHz

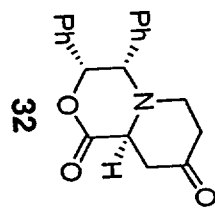
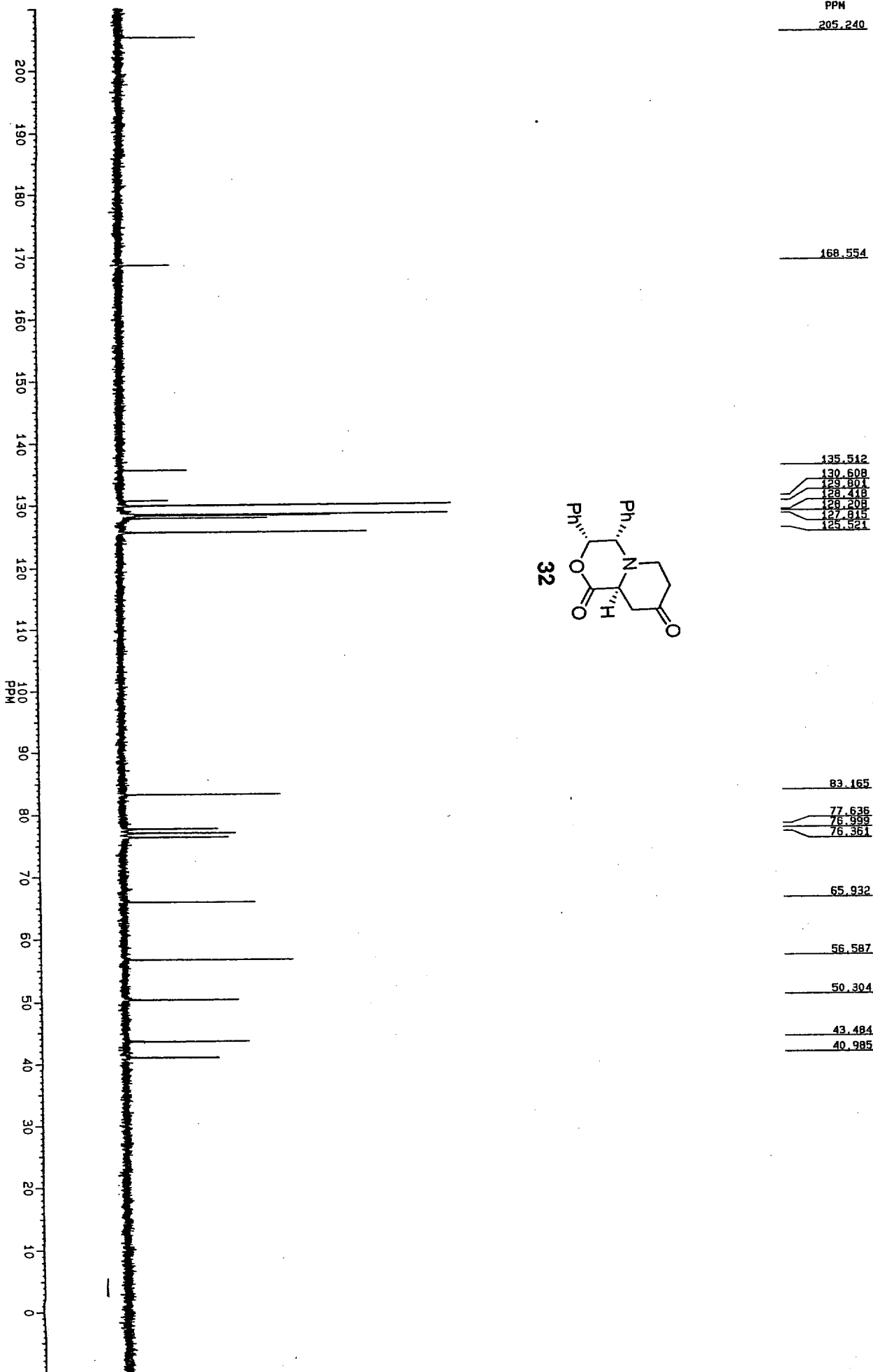
F2 - Processing parameters  
 SI 32768  
 SF 75.4677589 MHz  
 MDM no  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.40

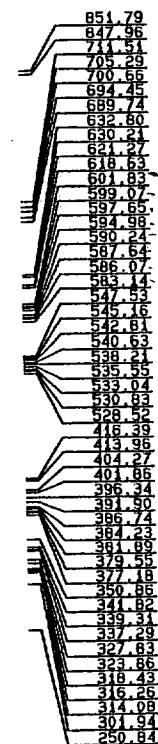
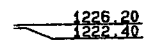
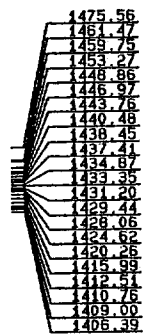
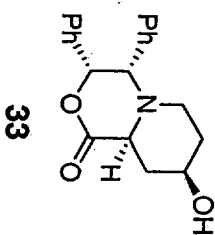
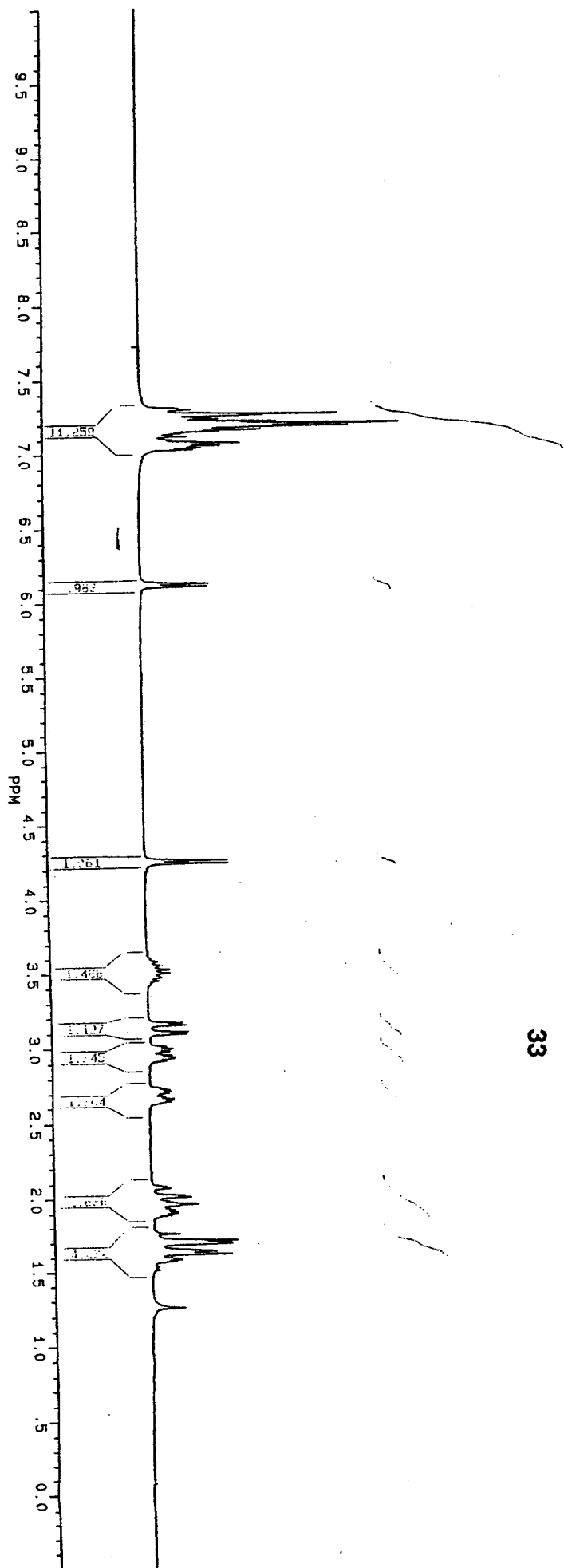
1D NMR plot parameters  
 CX 20.00 cm  
 F1P 210.000 DPM  
 F1 15848.23 Hz  
 F2P -0.500 ppm  
 F2 -37.73 Hz  
 PPMCM 10.52500 DPM/cm  
 HZCM 794.29816 Hz/cm

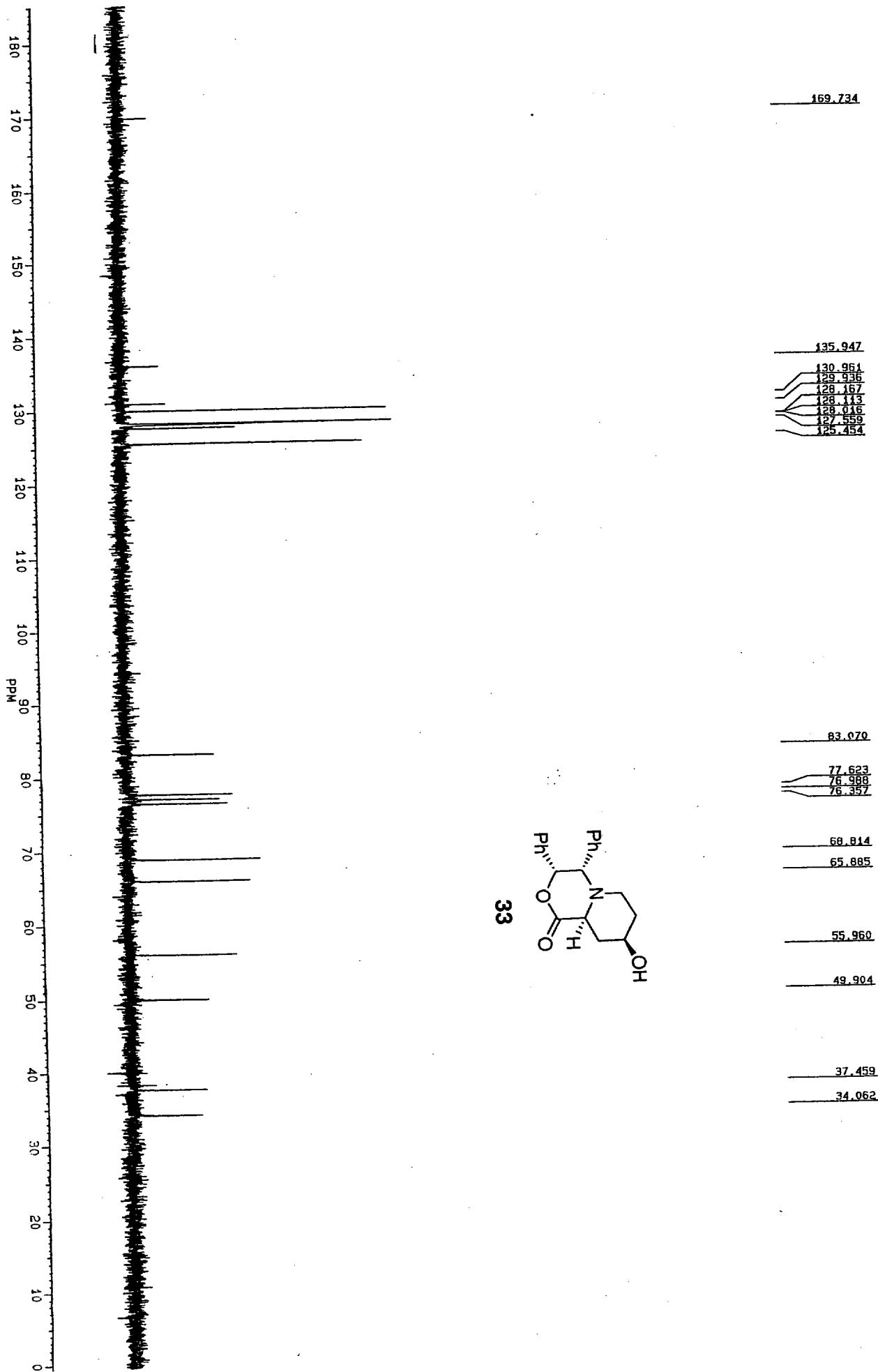


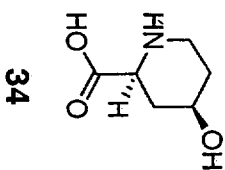
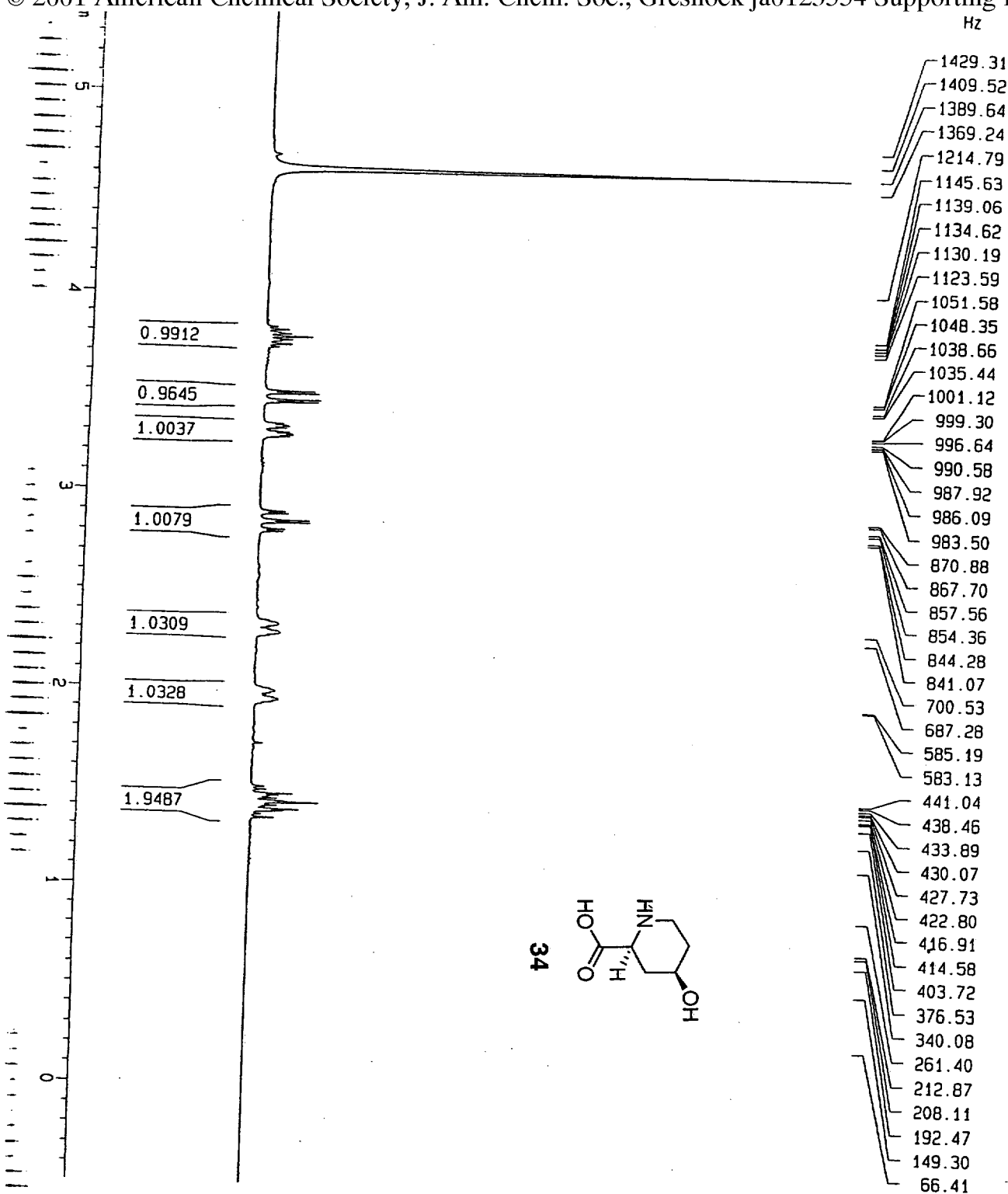
1471.20
1462.80
1461.02
1453.10
1450.22
1445.91
1443.87
1442.70
1439.55
1438.03
1435.83
1433.74
1429.16
1422.91
1418.95
1417.36
1416.16
1414.90
1413.25
1409.38
1241.01
1237.28

881.20
877.43
701.80
698.23
689.74
686.19
654.49
652.72
647.54
645.64
642.95
641.27
638.25
634.54
623.50
621.23
620.04
617.78
608.54
606.30
605.02
602.89
550.99
544.89
538.71
536.09
532.10
530.07
523.89
517.46
482.14
479.24
477.18
464.25
461.55
458.45
448.37
445.49
437.43









Current Data Parameters

NAME	Funk-07-09-01
EXPNO	1
PROCNO	1

F2 - Acquisition Parameters

Date_	20010709
Time	18.42
INSTRUM	Spect
PROBHD	5 mm Multinu
PULPROG	ZG30
TD	65536
SOLVENT	D2O
NS	16
DS	2
SKH	6172.839 Hz
FIDRES	0.094190 Hz
AQ	5.3084660 sec
RG	362
DM	81.000 usec
DE	6.00 usec
TE	300.0 K
D1	1.00000000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*

NUC1 1H

P1 9.80 usec

PL1 -6.00 dB

SFO1 300.1318534 MHz

F2 - Processing parameters

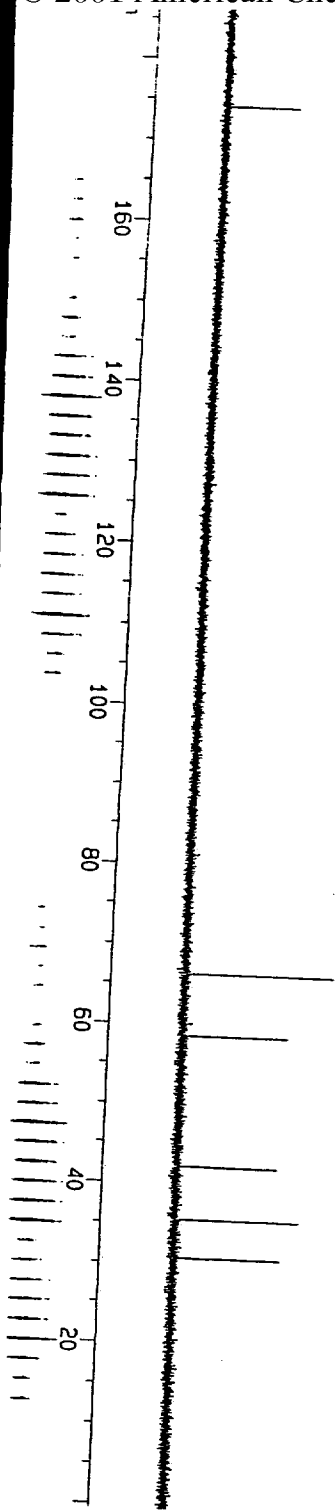
SI	32768
SF	300.1300191 MHz
WDW	no
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

1D NMR plot parameters

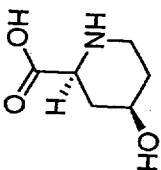
CX	20.00 cm
F1P	5.500 DPM
F1	1650.72 Hz
F2P	-0.500 DPM
F2	-150.06 Hz
PPMCM	0.30000 DPM/cm
HZCM	90.03900 Hz/cm

ppm

174.117



34



- 66.227
- 58.533
- 42.097
- 35.386
- 30.607

Current Data Parameters  
 NAME Funk-07-09-01  
 EXPNO 2  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20010709  
 Time 21.49

INSTRUM spect  
 PROBHD 5 mm Multinu  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT D2O  
 NS 2800  
 DS 4

SWH 18832.393 Hz  
 FIDRES 0.287360 Hz  
 AQ 1.7400308 sec  
 RG 11585.2  
 DH 25.550 usec  
 DE 6.00 usec  
 TE 300.0 K

D1 2.00000000 sec  
 d11 0.03000000 sec  
 d12 0.00002000 sec

\*\*\*\*\* CHANNEL f1 \*\*\*\*\*  
 NUC1 13C  
 P1 5.60 usec  
 PL1 -6.00 dB  
 SF01 75.4760200 MHz

\*\*\*\*\* CHANNEL f2 \*\*\*\*\*  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 114.00 usec  
 PL2 -6.00 dB  
 PL12 18.00 dB  
 PL13 18.00 dB  
 SF02 300.1312005 MHz

F2 - Processing parameters  
 SI 32768  
 SF 75.4676943 MHz  
 MDW nd  
 SSB 0  
 LB 0.00 Hz  
 GB 0  
 PC 1.40

10 NMR plot parameters  
 CX 20.00 cm  
 FIP 190.000 ppm  
 F1 14338.86 Hz  
 F2P -0.500 ppm  
 F2 -37.73 Hz  
 PPMCM 9.52500 ppm/cm  
 HZCM 718.82977 Hz/cm