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JL110F.142
AU PROG:
X00.AU
DATE 12 7-97

SA.NA ROTT353
SA.NO JL11 142
SOLVENT CDCl3
SF 300.133
SY 210.0
D1 5200.000
SI 32768
TD 32768
SW 6024.096
HZ/PT .368

AQ 2.720
RG 2
NS 16
TE 298

O2 3200.000
DP 63L P0

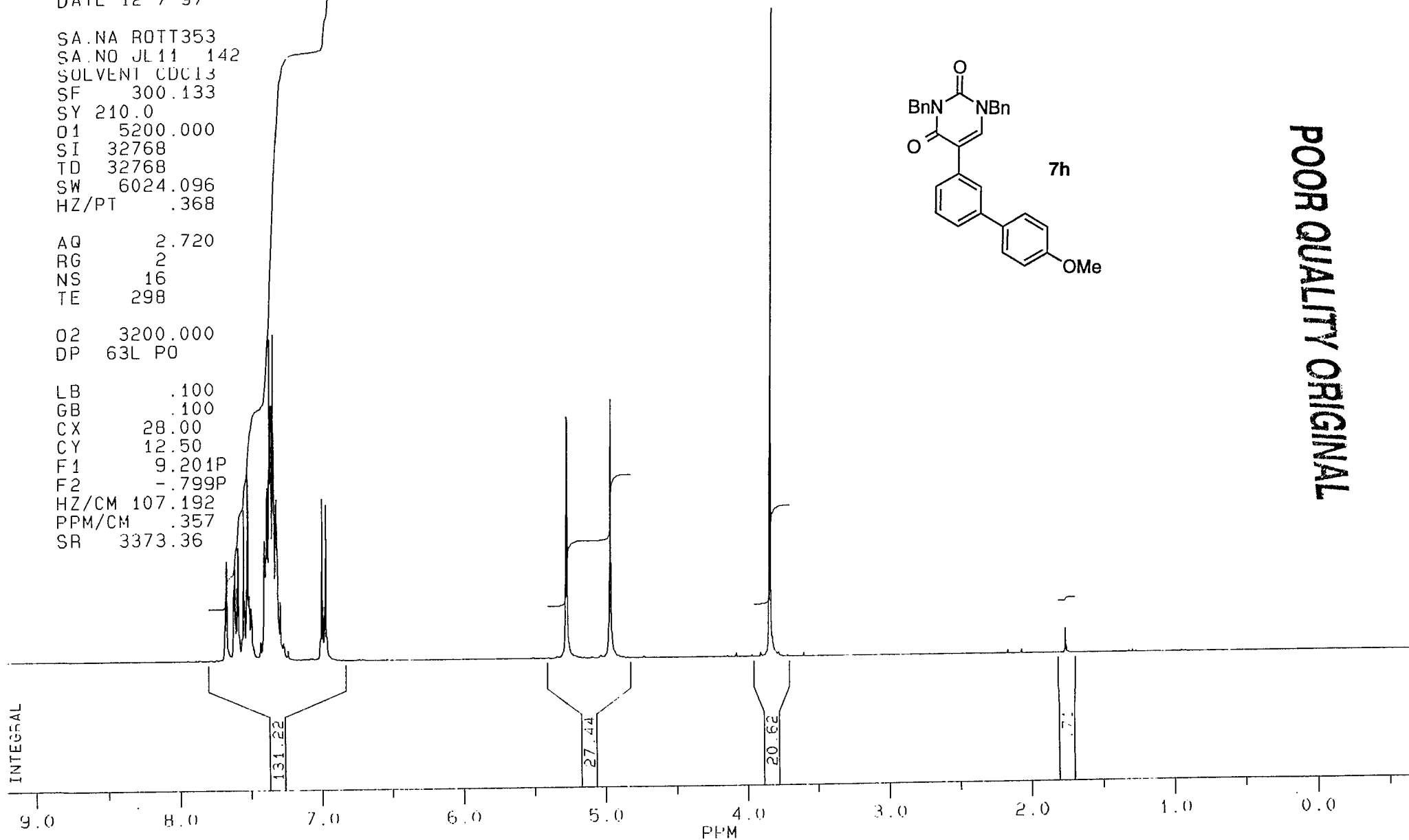
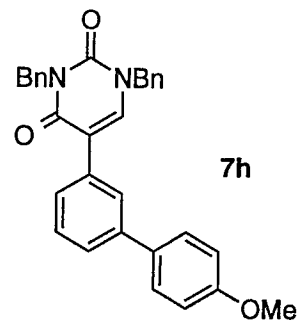
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GB .100
CX 28.00
CY 12.50
F1 9.201P
F2 -.799P
HZ/CM 107.192
PPM/CM .357
SR 3373.36

PPM
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7.54921
7.52021
7.40321
7.38656
7.38375
7.37059
7.36131
7.35533
7.34481
7.32150
7.31086
6.99957
6.97636
6.97050

5.27344
5.03064
4.96754

4.07811
3.90354
3.84112
3.77862
3.59889

2.16435
2.06831
1.75860



POOR QUALITY ORIGINAL



REC

JL111F.142
AU PROG:
X02.AU
DATE 12-7-97

SA.NA ROTT353
SA.NO JL11 142
SOLVENT CDCl3
SF 75.469
SY 75.0
O1 7600.000
SI 65536
TD 65536
SW 20000.000
HZ/PT .610

AQ 1.638
RG 100
NS 512
TE 298

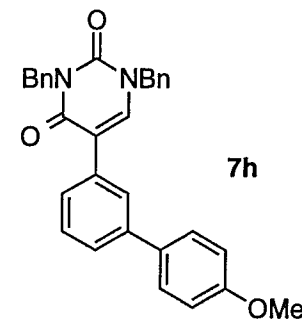
O2 4500.000
DP 16H D0

LB 1.000
GB .100
CX 28.00
CY 14.50
F1 250.001P
F2 -9.988P
HZ/CM 700.749
PPM/CM 9.285
SR -1410.62

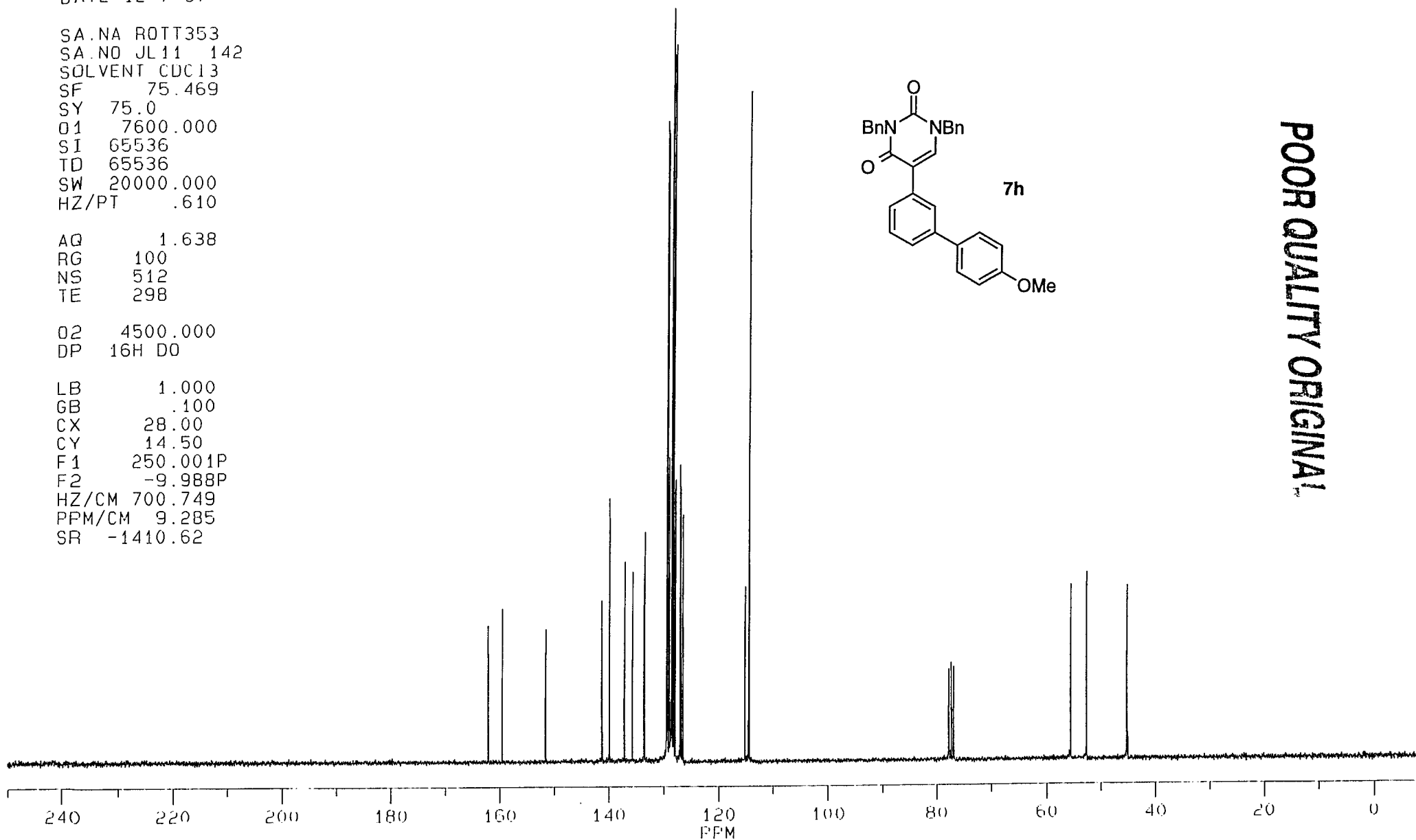
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159.142
151.172
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135.573
133.162
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128.996
128.606
128.566
128.374
128.152
127.801
125.981
125.827
123.452
115.077
111.382

77.725
77.300
75.878

55.453
52.592
45.122



POOR QUALITY ORIGINAL





MA280F.160
AU PROG:
X00.AU
DATE 30-5-97

SA.NA ROTT440
SA.NO MA28 160
SOLVENT CDC13
SF 300.133
SY 210.0
O1 5200.000
SI 32768
TD 32768
SW 6024.096
HZ/PT .368

AQ 2.720
RG 10
NS 16
TE 298

O2 3200.000
DP 63L P0

LB .100
GB .100
CX 28.00
CY 12.50
F1 9.201P
F2 -.799P
HZ/CM 107.192
PPM/CM .357
SR 3367.11

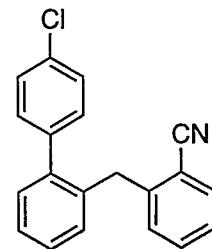
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7.33350
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7.26122
7.25671
7.18702
7.18011
7.16355
7.15296
7.15481
6.97683
6.97682

4.39372
4.25033
4.18172
3.96651

2.56020

2.18053

1.59759



7i

INTEGRAL

92.199

15.096

9.0 8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0

PPM

POOR QUALITY ORIGINAL



MAC

MA281F.160
AU PROG:
X02.AU
DATE 30-5-97

SA.NA ROTT440
SA NO MA28 160
SOLVENT CDC13
SF 75.469
SY 75.0
O1 7600.000
SI 65536
TD 65536
SW 20000.000
HZ/PT .610

AQ 1.638
RG 200
NS 512
TE 298

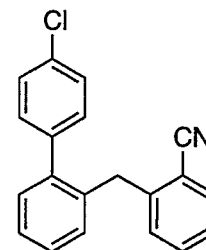
O2 4500.000
DP 16H D0

LB 1.000
GB .100
CX 28.00
CY 14.50
F1 250.001P
F2 -9.988P
HZ/CM 700.749
PPM/CM 9.285
SR -1409.40

144.936
141.931
139.671
136.134
133.337
132.794
132.661
130.157
130.316
129.976
128.524
128.081
127.024
126.671
117.847
112.726

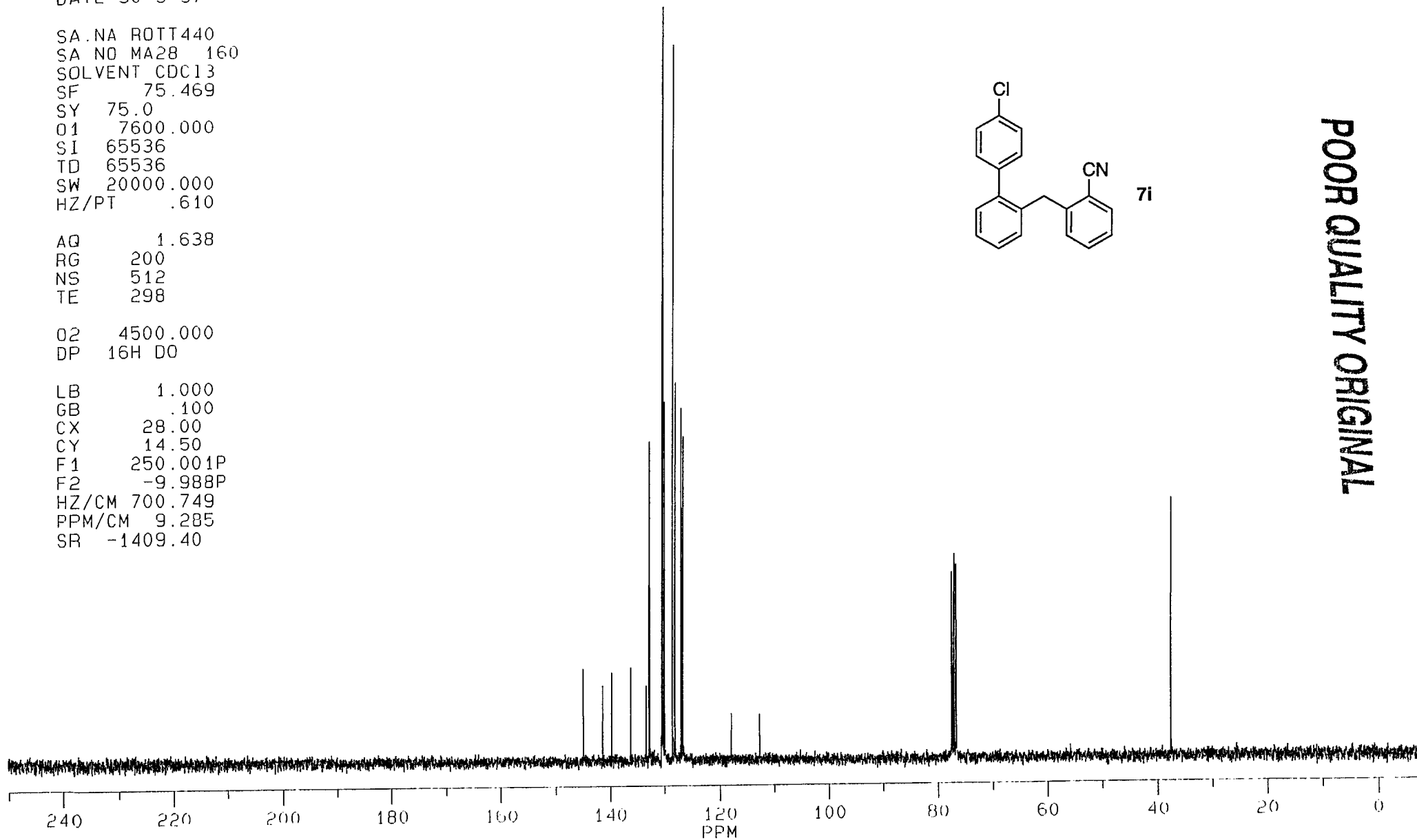
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77.082
75.660

37.614



7i

POOR QUALITY ORIGINAL





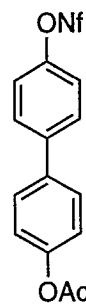
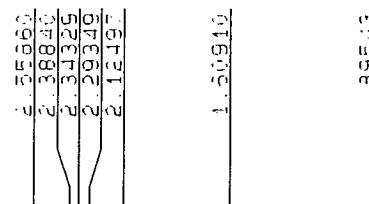
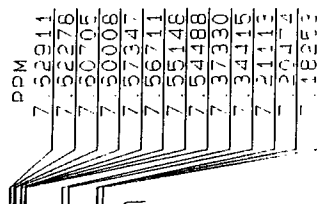
AP220F.141
AU PROG:
X00.AU
DATE 23-4-97

SA.NA ROTT126
SA.NO AP22 141
SOLVENT CDCl3
SF 300.133
SY 210.0
O1 5200.000
S1 32768
ID 32768
SW 6024.096
HZ/PT .368

AQ 2.720
RG 8
NS 16
TE 298

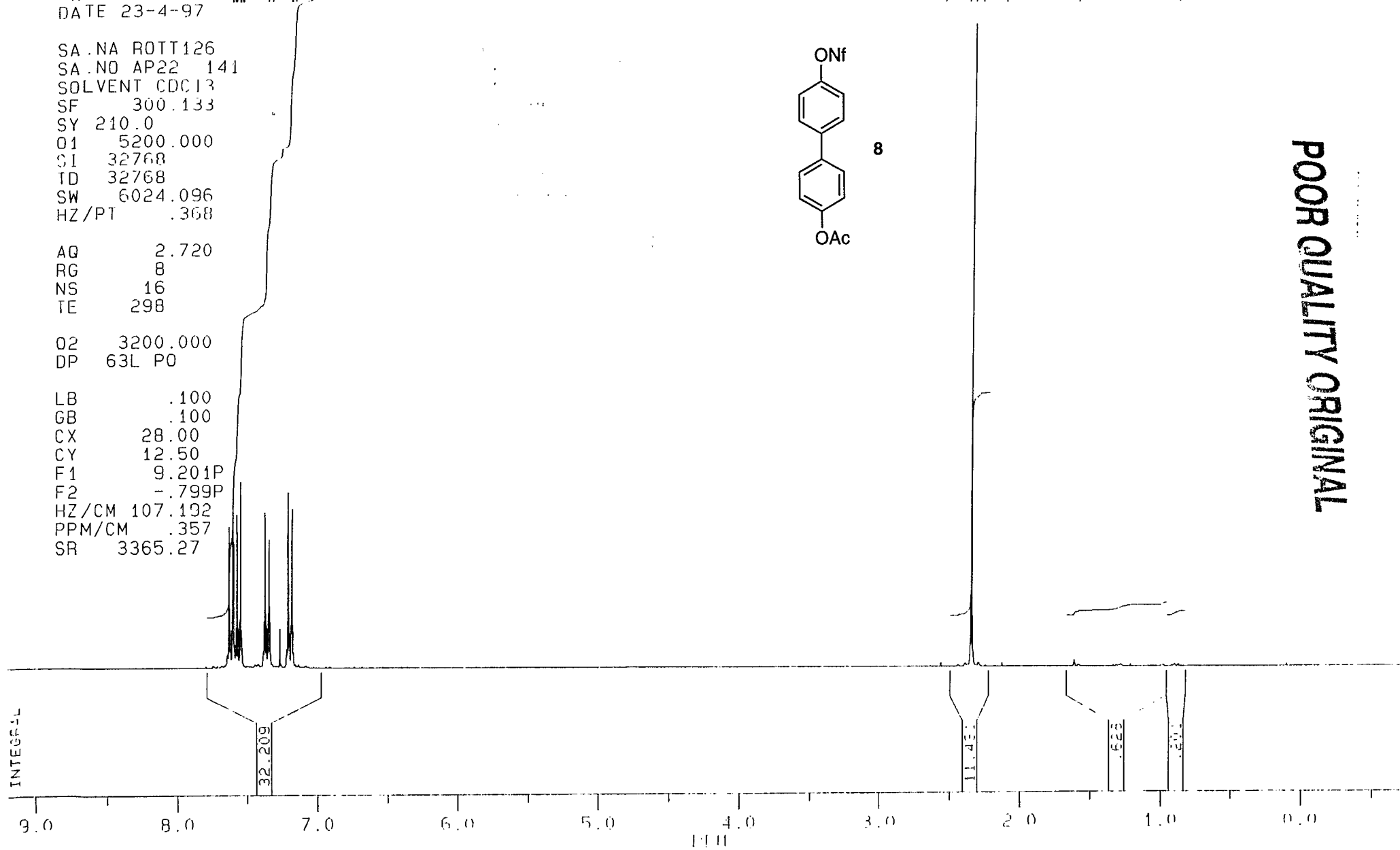
O2 3200.000
DP 63L P0

LB .100
GB .100
CX 28.00
CY 12.50
F1 9.201P
F2 -.799P
HZ/CM 107.192
PPM/CM .357
SR 3365.27



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POOR QUALITY ORIGINAL





PPM

AP221F.141
AU PROG:
X02.AU
DATE 23-4-97

SA.NA ROTT126
SA.NI AP22 141
SOLVENT CDC13
SI 75.469
SY 75.0
O1 7600.000
SI 65536
ID 65536
SW 20000.000
HZ/PI 1.610

AQ 1.638
RG 200
NS 512
TE 298

O2 4500.000
DP 16H D0

LB 1.000
GB .100
CX 28.00
CY 14.50
F1 250.001P
F2 -9.988P
HZ/CM 700.749
PPM/CM 9.285
SR -1402.08

159.341

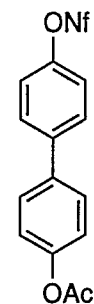
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140.738
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128.769
129.210
122.101
121.541

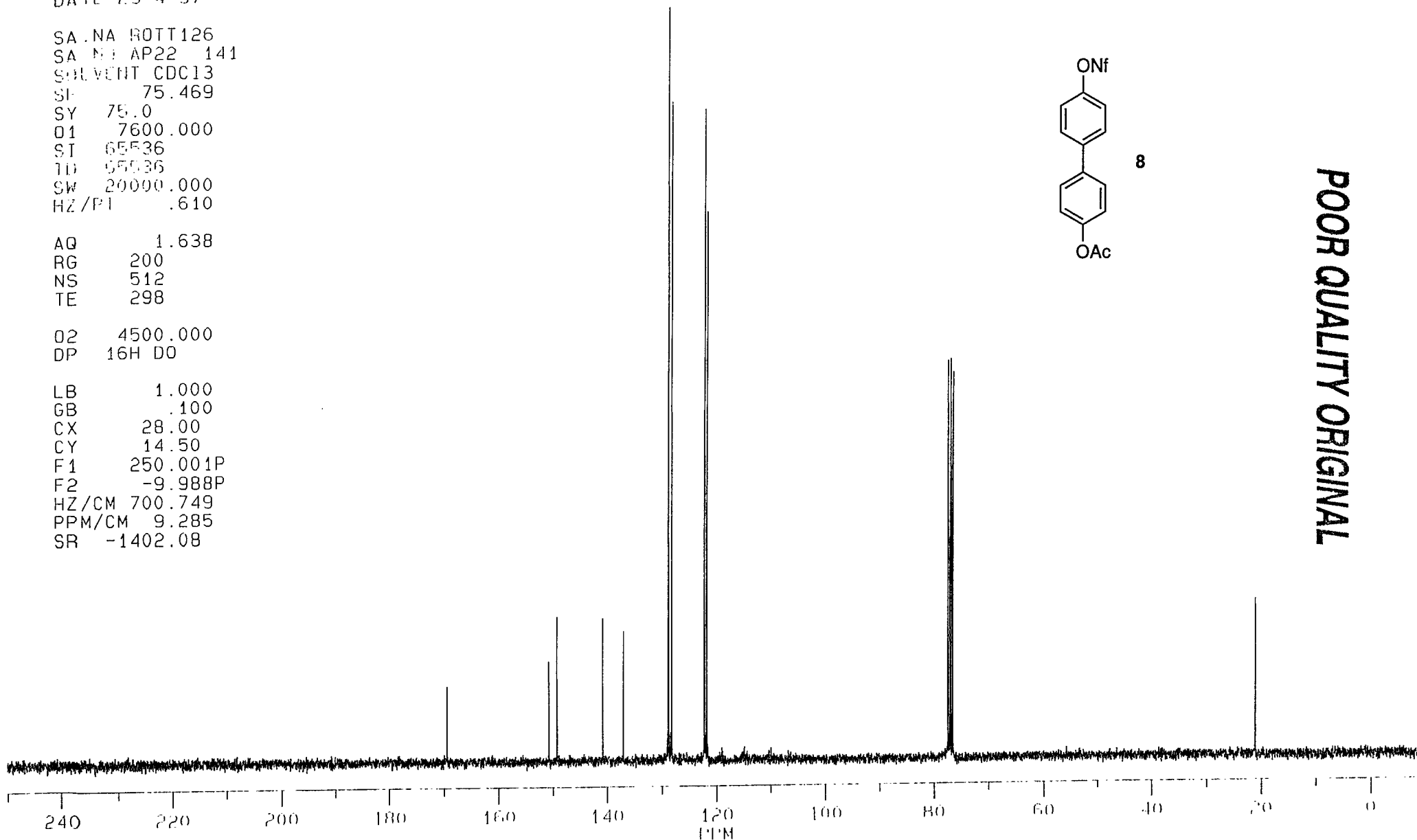
77.390
75.967
75.543

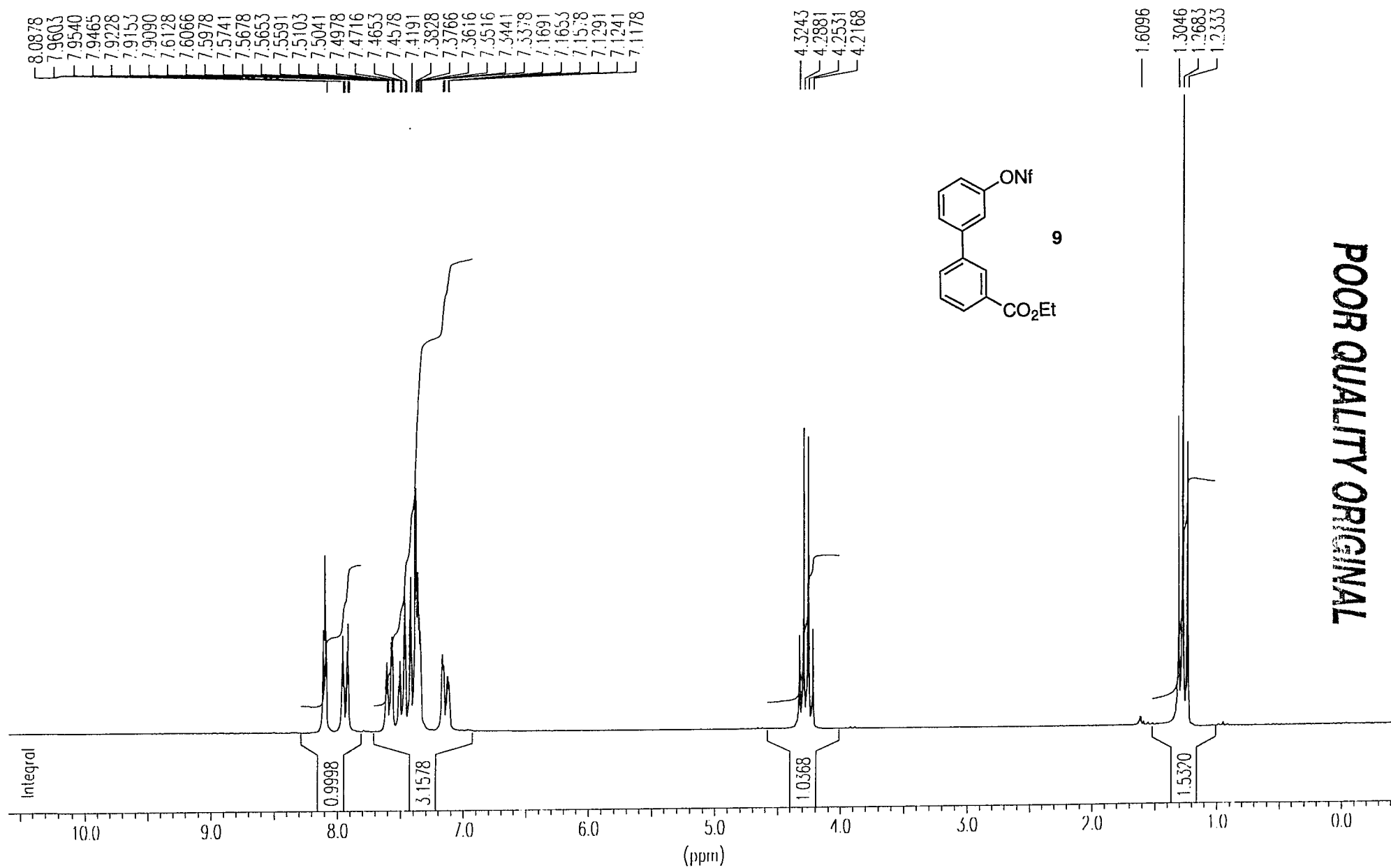
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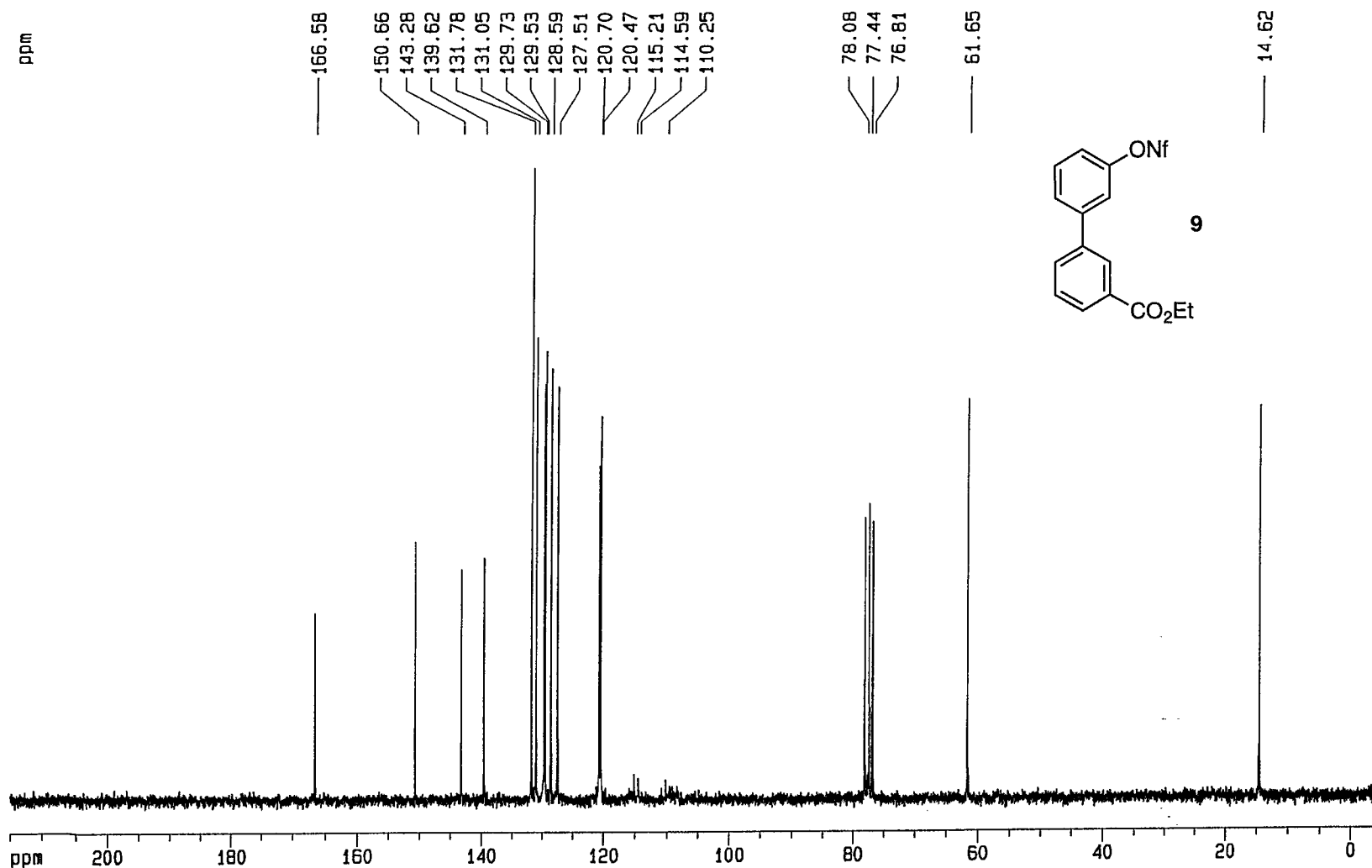


8

POOR QUALITY ORIGINAL







Current Data Parameters

NAME rott435
EXPNO 11
PROCNO 1

F2 - Acquisition Parameters

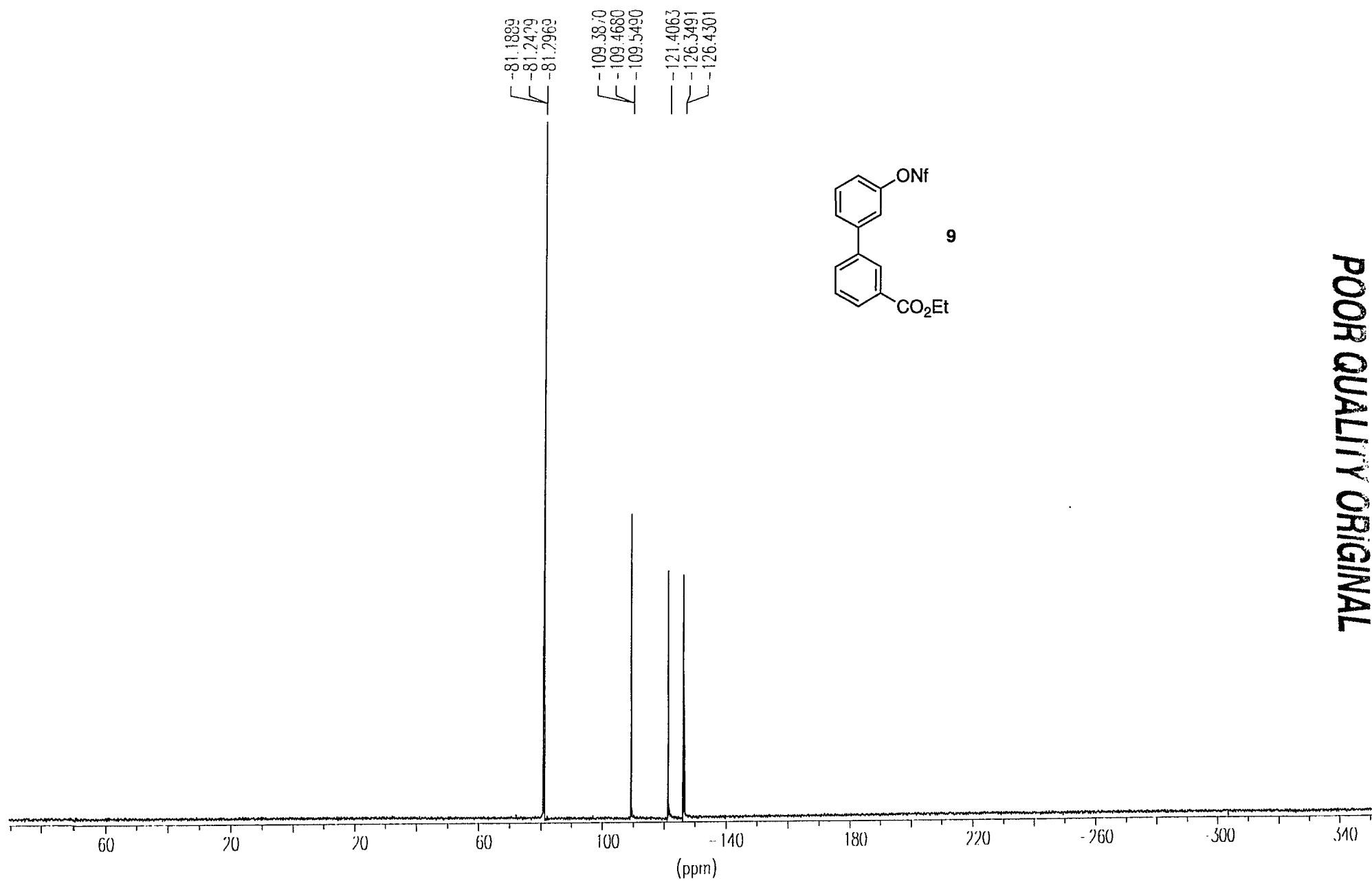
Date 970530
Time 17.00
PULPROG zgdc30
SOLVENT CDCl3
AQ 2.4248519 sec
FIDRES 0.206200 Hz
DM 37.0 usec
RG 32768
NUCLEUS 13C
D12 0.0000200 sec
DL5 26.00 dB
P31 100.0 usec
D1 0.0500000 sec
P1 8.5 usec
DE 46.3 usec
SF01 50.3290000 MHz
SMH 13513.51 Hz
TD 65536
NS 384
DS 0
D11 0.0300000 sec

F2 - Processing parameters

SI 32768
SF 50.3232957 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 22.00 cm
F1P 215.000 ppm
F1 10819.51 Hz
F2P -5.000 ppm
F2 -251.62 Hz
PPMCM 10.00000 ppm/cm
HZCM 503.23297 Hz/cm



POOR QUALITY ORIGINAL



JU120F.113

AU PROG:

X001AU

DATE 12-6-97

SA.NA ROTT276

SA.NO JU12 113

SOLVENT CDCl3

SF 300.133

SY 210.0

O1 5200.000

SI 32768

TD 32768

SW 6024.096

HZ/PT .368

AQ 2.720

RG 4

NS 16

TE 298

O2 3200.000

DP 63L P0

LB .100

GB .100

CX 28.00

CY 12.50

F1 0.2018

F2 1.7998

HZ/CM 107.192

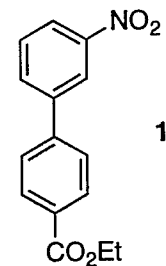
PPM/CM .357

SR 3365.64

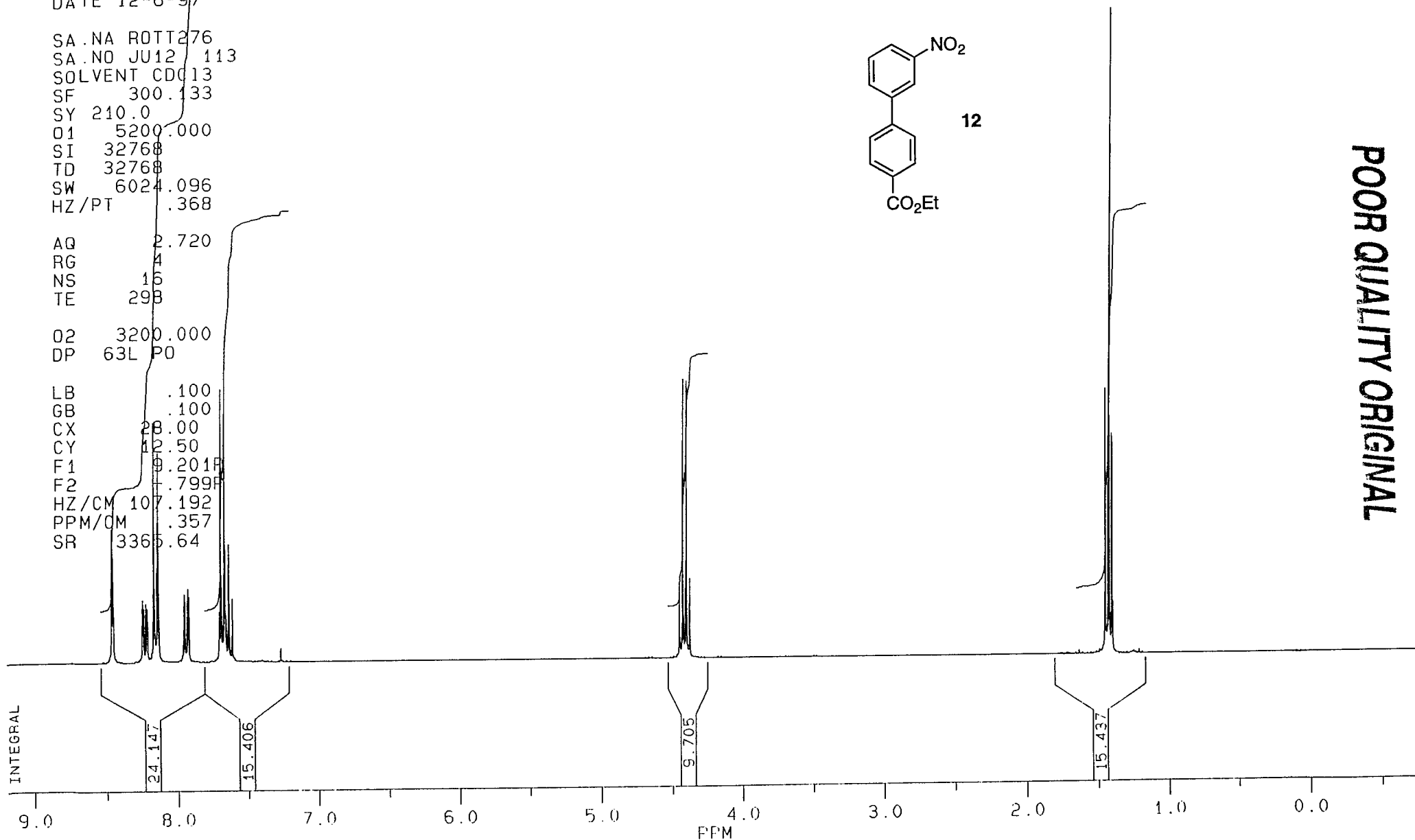
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8.13184
7.69322
7.68671
7.67112
7.66411
7.63621
7.26491

4.44661
4.42256
4.39910
4.37506

1.63075
1.48505
1.44457
1.42106
1.39728
1.20783



12



POOR QUALITY ORIGINAL



ppm

JU121F.113
AU PROG:
X02.AU
DATE 12-6-97

SA.NA ROTT276
SA.NO JU12 113
SOLVENT CDC13
SF 75.469
SY 75.0
O1 7600.000
SI 65536
TD 65536
SW 20000.000
HZ/PT .610

AQ 1.638
RG 200
NS 512
TE 298

O2 4500.000
DP 16H D0

LB 1.000
GB .100
CX 28.00
CY 14.50
F1 250.000P
F2 -9.988P
HZ/CM 700.749
PPM/CM 9.285
SR -1400.85

166.010

148.721

142.694

141.645

133.041

130.470

130.302

129.856

127.019

122.698

122.002

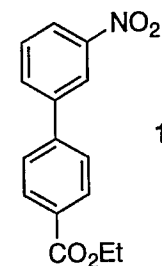
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76.990

75.562

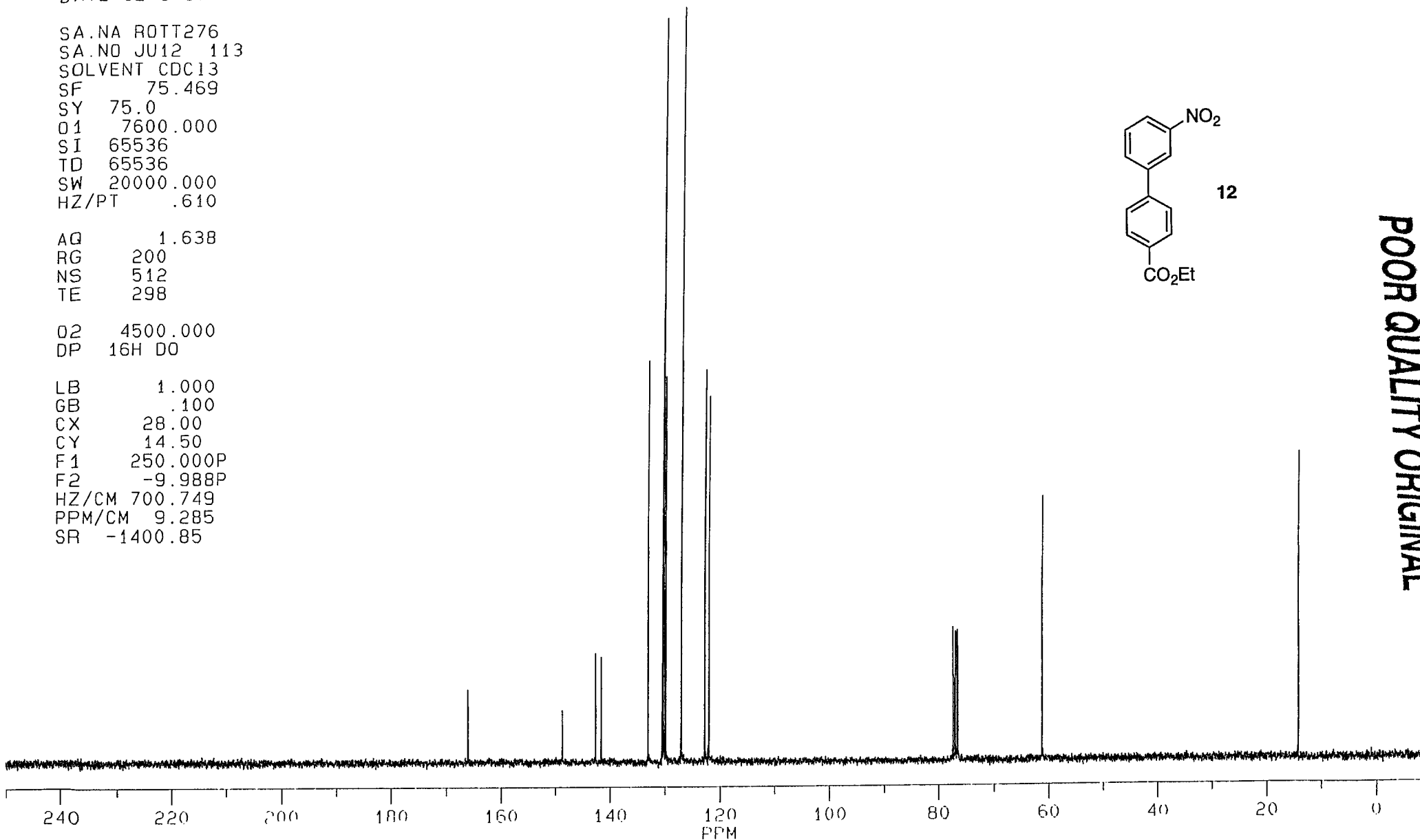
61.123

14.259

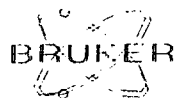


12

POOR QUALITY ORIGINAL



ROTATION 100



JU270F.148

AU PROG:

X00.AU

DATE 28-6-97

SA.NA R0T311

SA.NO JU27 148

SOLVENT CDCl3

SF 300.133

SY 210.0

Q1 5200.000

SI 32768

TD 32768

SW 6024.096

HZ/PT .368

AQ 2.720

RG 2

NS 16

IE 298

O2 3200.000

DP 63L P0

LB .100

GB .100

CX 28.00

CY 12.50

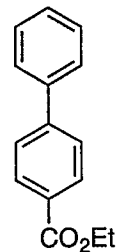
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F2 7.799P

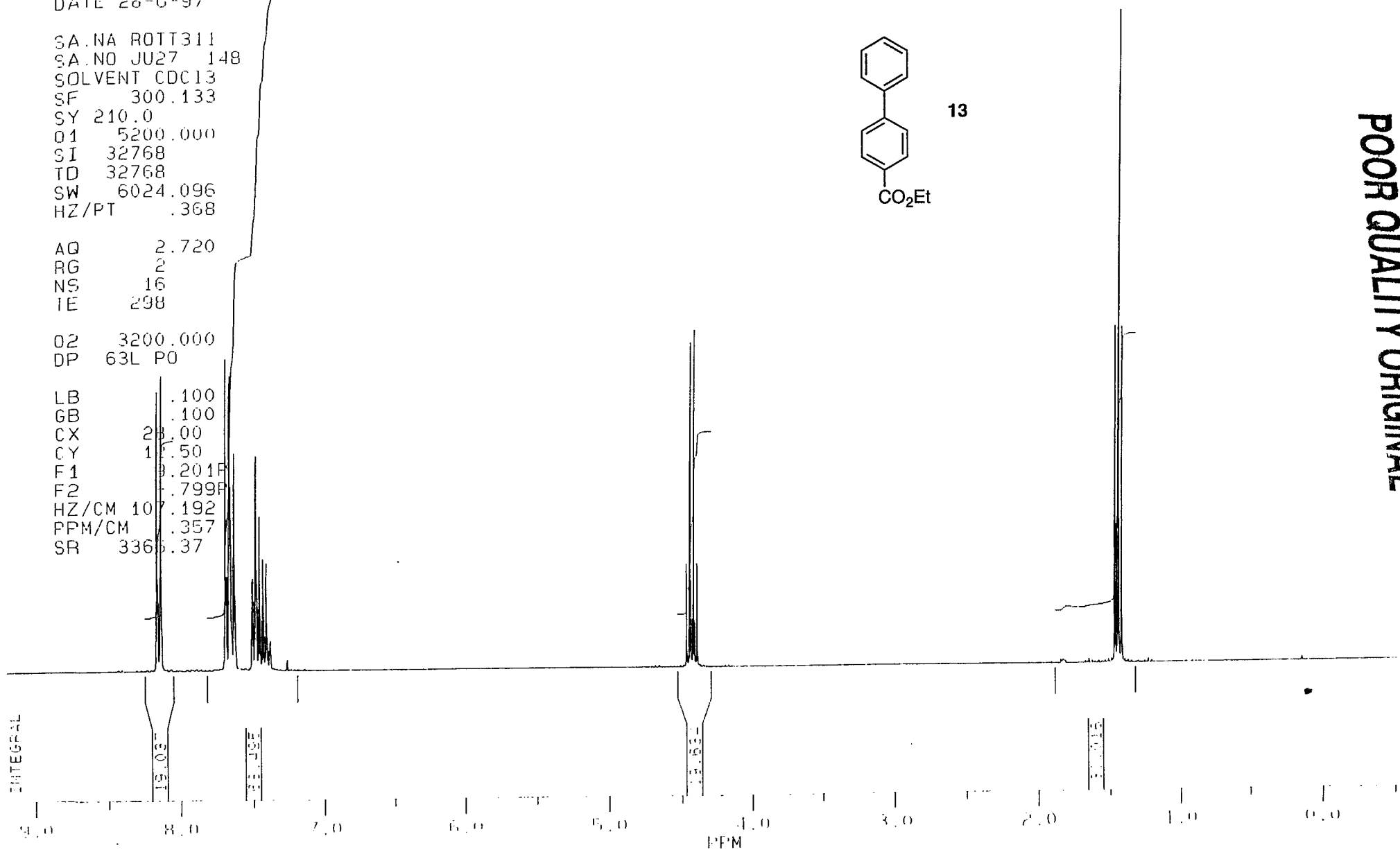
HZ/CM 107.192

PPM/CM .357

SR 3366.37



13

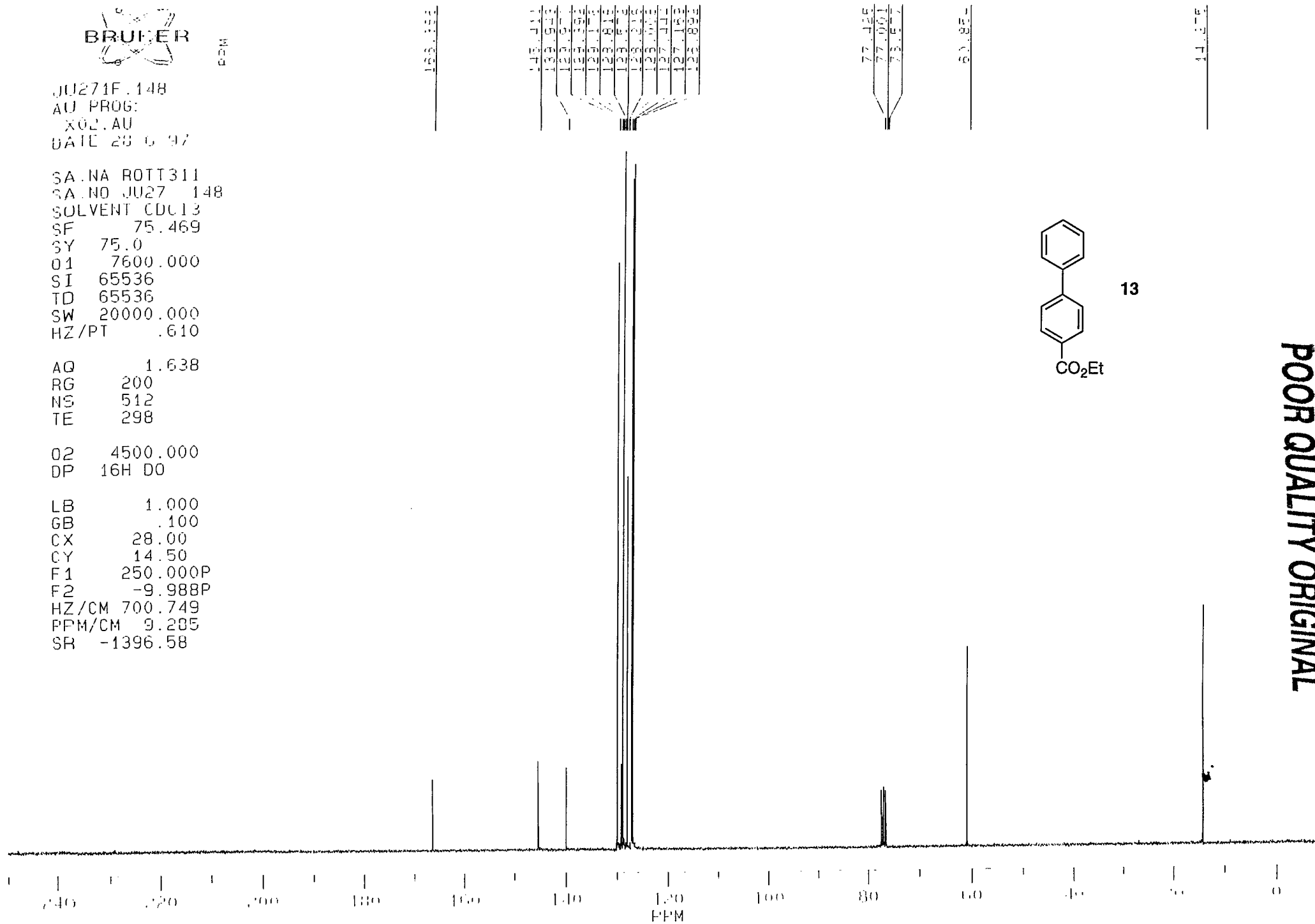


POOR QUALITY ORIGINAL

~~BRUIER~~

三白草

LB	1.000
GB	.100
CX	28.00
CY	14.50
F1	250.000P
F2	-9.988P
HZ/CM	700.749
PPM/CM	9.285
SR	-1396.58



POOR QUALITY ORIGINAL