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4-METHYLENE-5-HEXENENITRILE



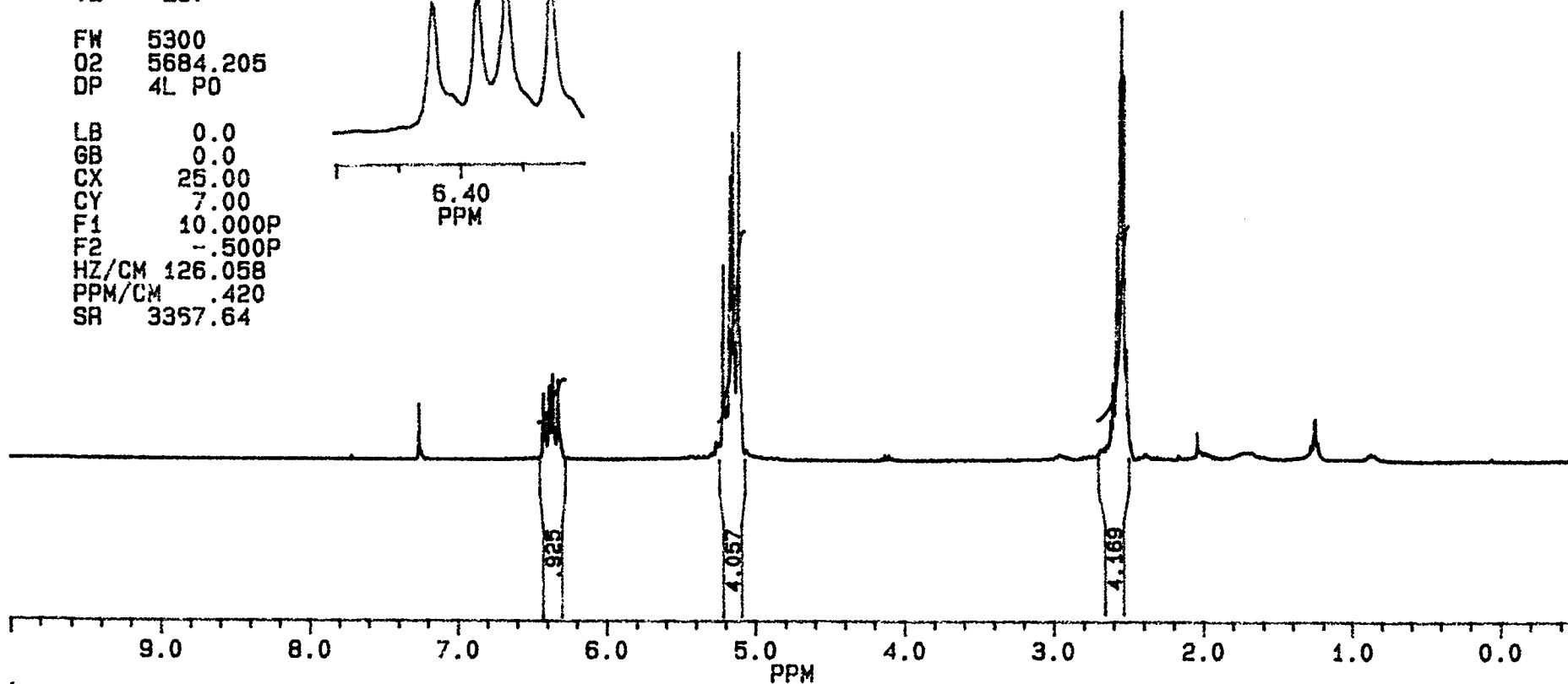
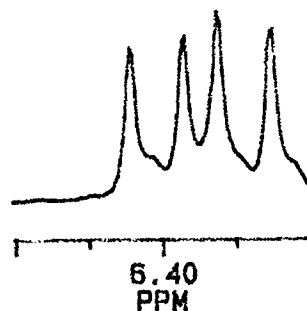
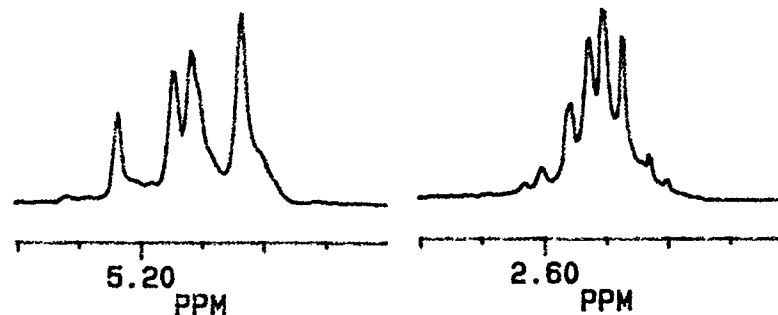
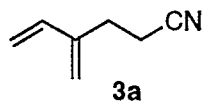
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DATE 13-2-97
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SF 300.135
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O1 4941.850
SI 16384
TD 16384
SW 4166.667
HZ/PT .509

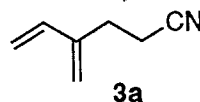
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RD 2.500
AQ 1.966
RG 4
NS 64
TE 297

FW 5300
O2 5684.205
DP 4L P0

LB 0.0
GB 0.0
CX 25.00
CY 7.00
F1 10.000P
F2 -.500P
HZ/CM 126.058
PPM/CM .420
SR 3357.64



4-METHYLENE-5-HEXENENITRILE



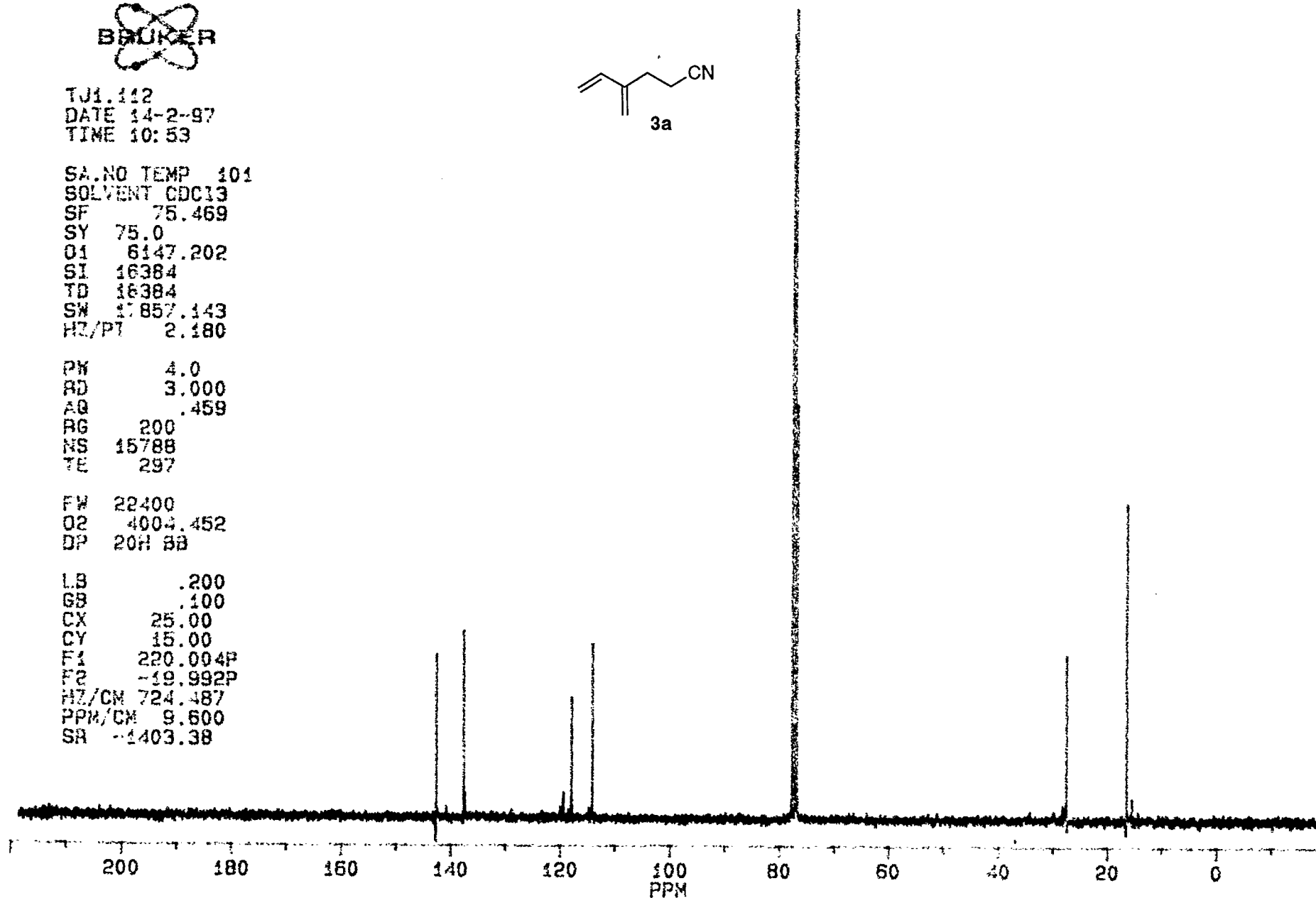
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SF 75.469
SY 75.0
O1 6147.202
SI 16384
TD 16384
SW 17857.143
HZ/PT 2.180

PN 4.0
RD 3.000
AQ .459
RG 200
NS 15788
TE 297

FW 22400
O2 4004.452
DP 20H 88

LB .200
GB .100
CX 25.00
CY 15.00
F1 220.004P
F2 -19.992P
HZ/CM 724.487
PPM/CM 9.600
SR -1403.38



5-METHYLENE-6-HEPTENITRILE



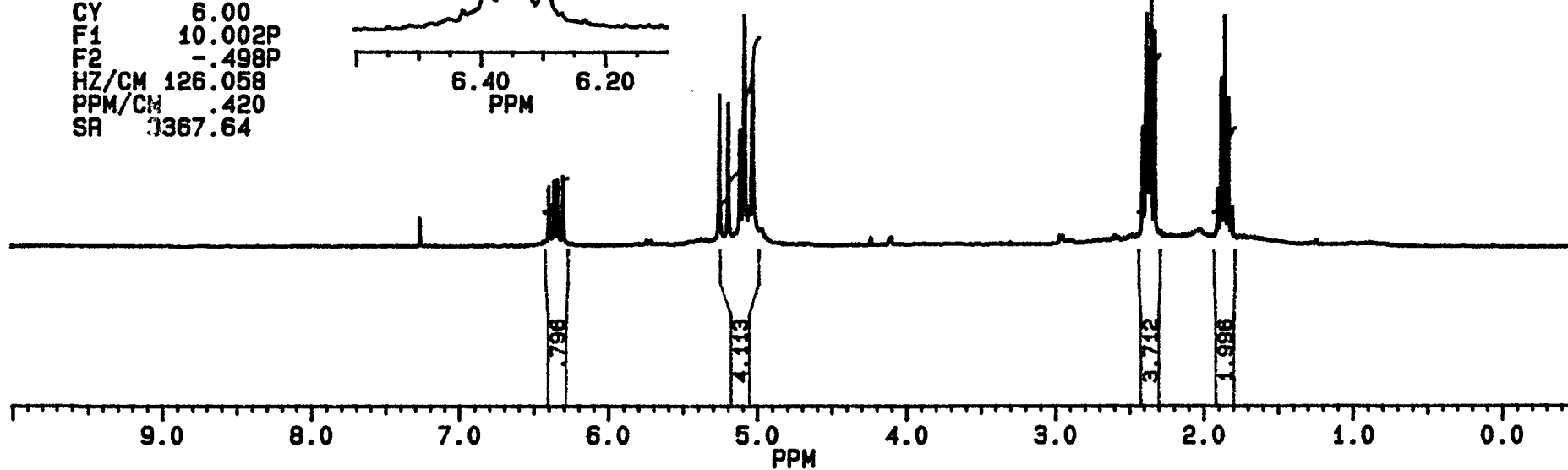
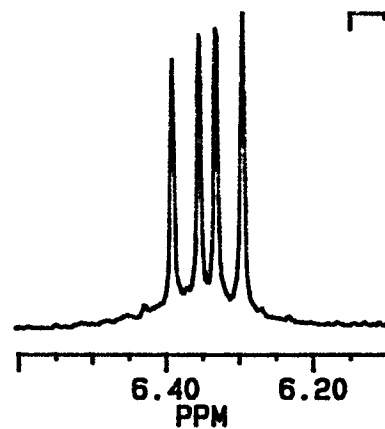
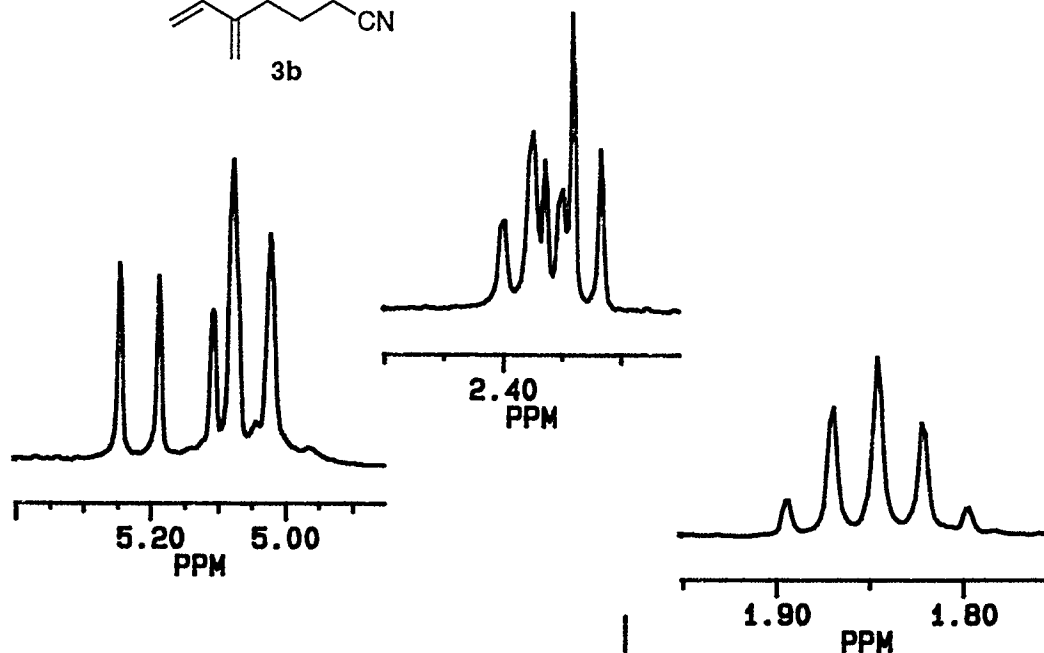
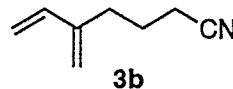
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SY 210.0
O1 4941.850
SI 16384
TD 16384
SW 4166.667
HZ/PT .509

PW 3.0
RD 2.500
AQ 1.966
RG 2
NS 32
TE 297

FW 5300
O2 5684.205
DP 4L P0

LB .200
GB .100
CX 25.00
CY 6.00
F1 10.002P
F2 -.498P
HZ/CM 126.058
PPM/CM .420
SR 3367.64



5-METHYLENE-6-HEPTENENITRILE



PPM

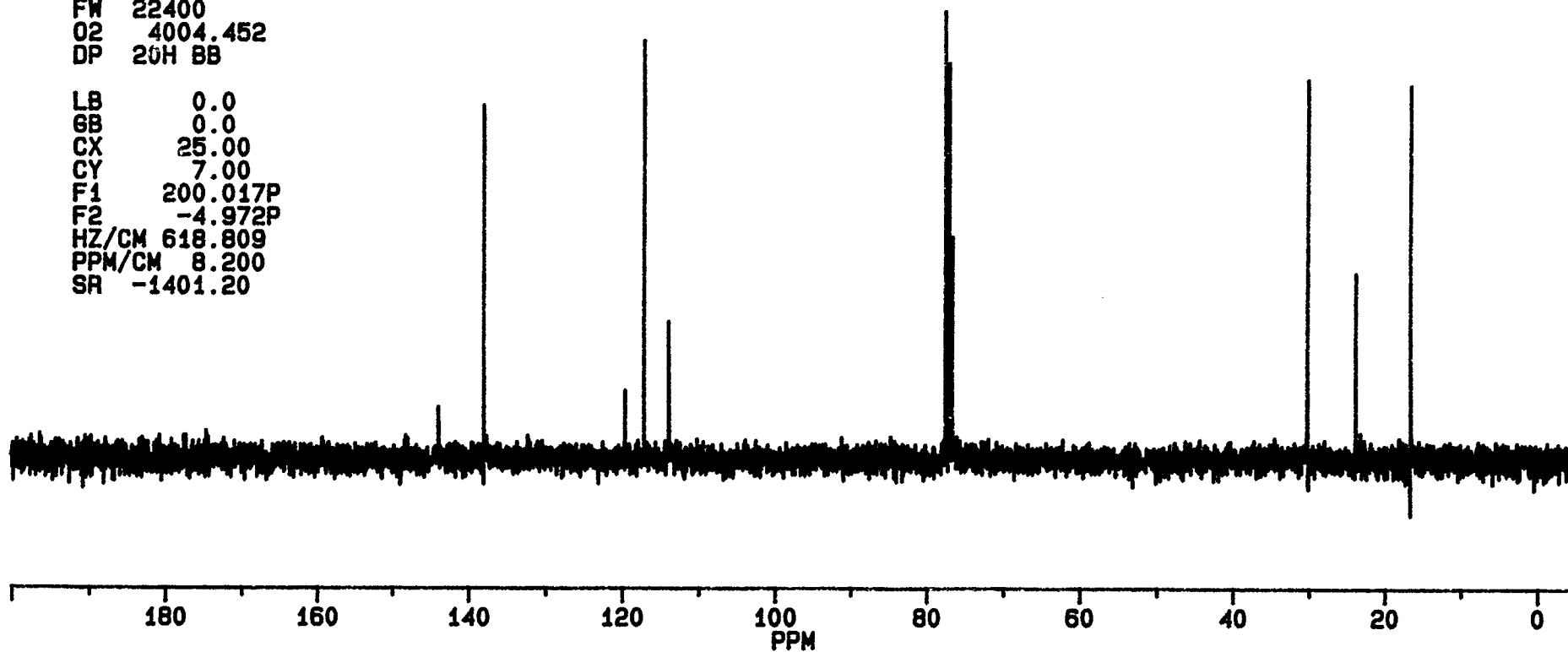
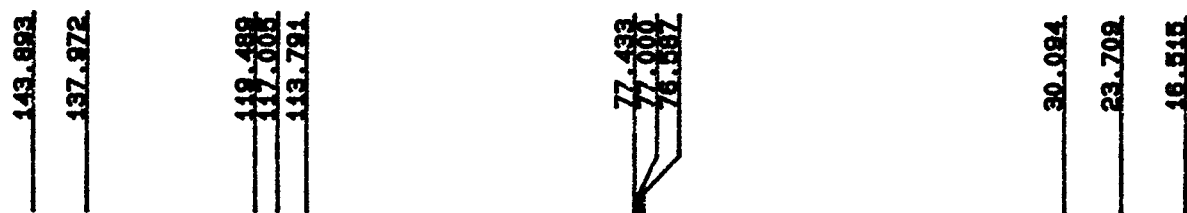
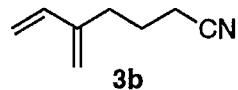
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SF 75.469
SY 75.0
O1 6147.202
SI 16384
TD 16384
SW 17857.143
HZ/PT 2.180

PW 4.0
RD 3.000
AQ .459
RG 200
NS 956
TE 297

FW 22400
O2 4004.452
DP 20H 88

LB 0.0
GB 0.0
CX 25.00
CY 7.00
F1 200.017P
F2 -4.972P
HZ/CM 618.809
PPM/CM 8.200
SR -1401.20



6-METHYLENE-7-OCTENENITRILE



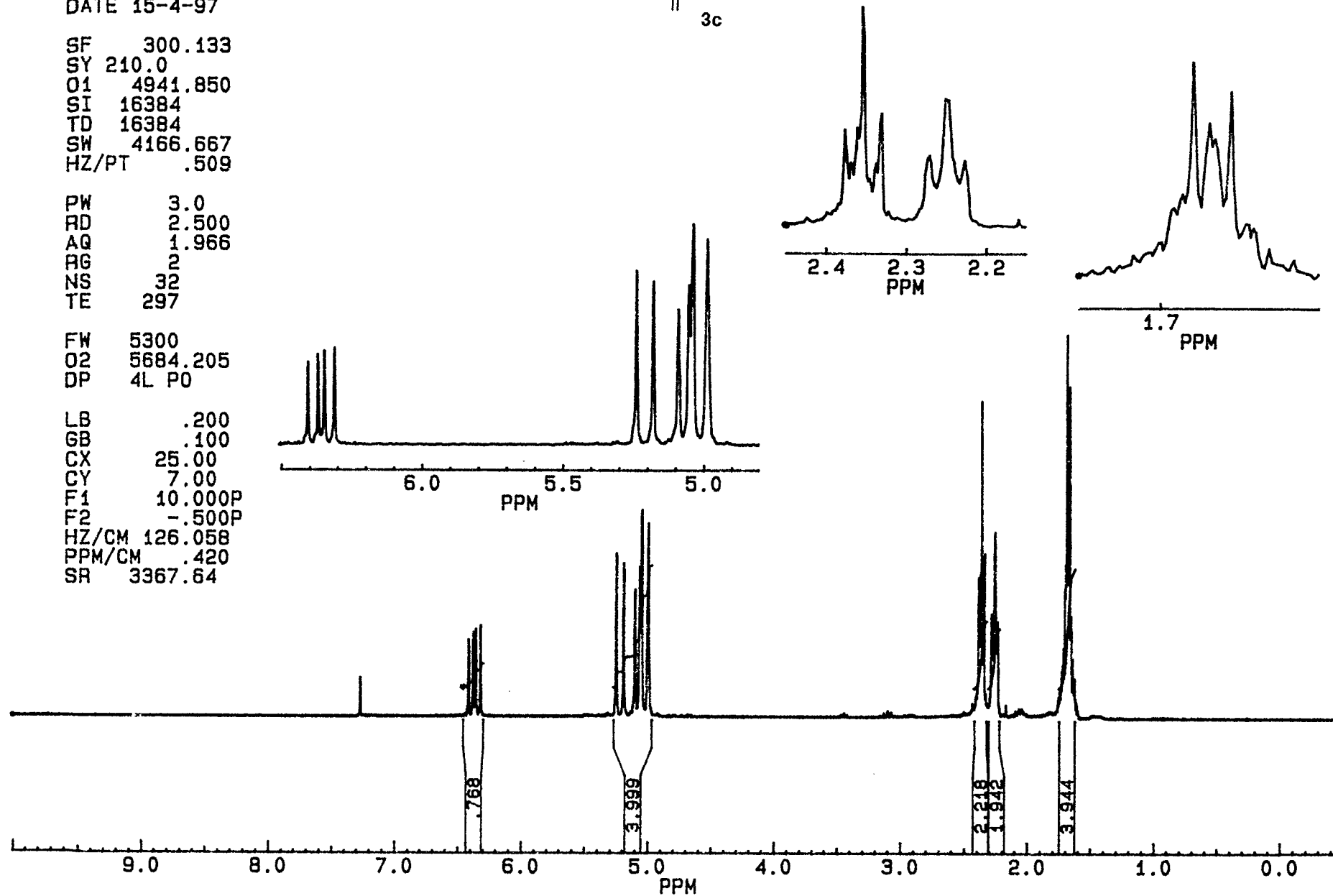
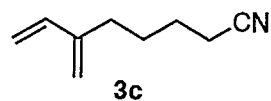
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SF 300.133
SY 210.0
O1 4941.850
SI 16384
TD 16384
SW 4166.667
HZ/PT .509

PW 3.0
RD 2.500
AQ 1.966
RG 2
NS 32
TE 297

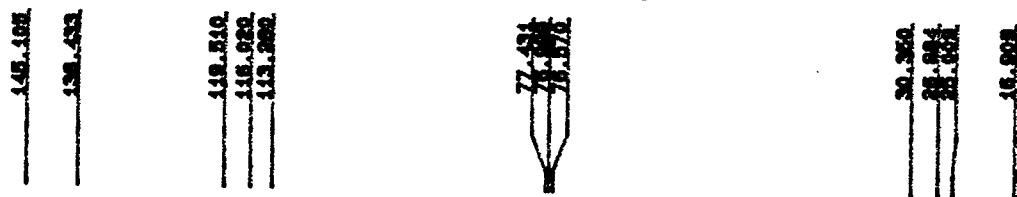
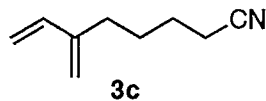
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O2 5684.205
DP 4L P0

LB .200
GB .100
CX 25.00
CY 7.00
F1 10.000P
F2 -.500P
HZ/CM 126.058
PPM/CM .420
SR 3367.64



POOR QUALITY ORIGINAL

6-METHYLENE-7-OCTENENITRILE



PPM

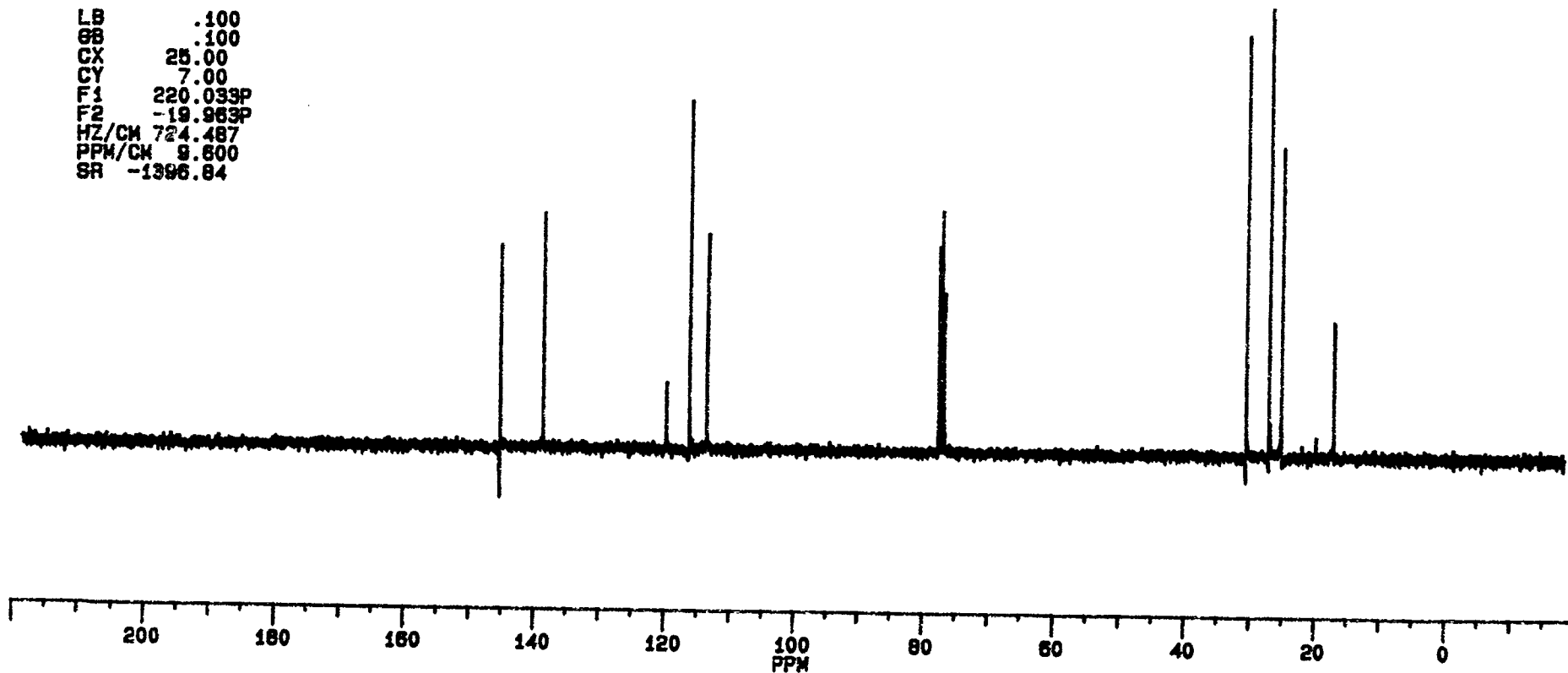
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DATE 14-4-97
TIME 17:22

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SOLVENT CDCl3
SF 75.469
SY 75.0
O1 6147.202
SI 16384
TD 16384
SW 17857.143
HZ/PT 2.180

PW 4.0
RO 9.000
AQ .459
RG 200
NS 1889
TE 297

FW 22400
O2 4004.452
DP 20H 88

LB .100
GB .100
CX 25.00
CY 7.00
F1 220.033P
F2 -19.963P
HZ/CM 724.487
PPM/CM 9.600
SR -1396.84



7-METHYLENE-8-NONENENITRILE



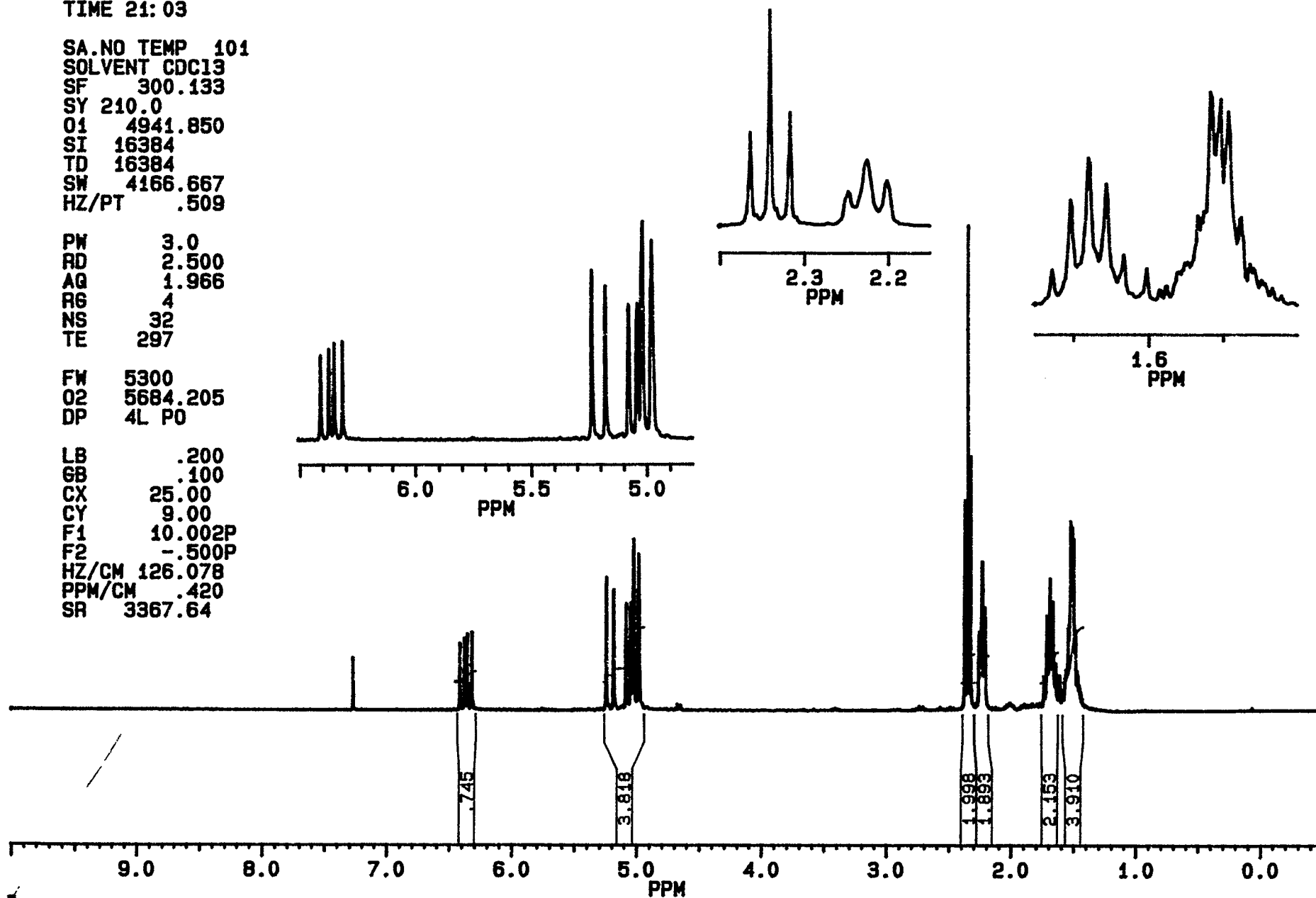
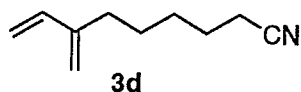
TJ0.006
DATE 9-3-97
TIME 21:03

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SOLVENT CDC13
SF 300.133
SY 210.0
O1 4941.850
SI 16384
TD 16384
SW 4166.667
HZ/PT .509

PW 3.0
RD 2.500
AQ 1.966
RG 4
NS 32
TE 297

FW 5300
O2 5684.205
DP 4L P0

LB .200
GB .100
CX 25.00
CY 9.00
F1 10.002P
F2 -.500P
HZ/CM 126.078
PPM/CM .420
SR 3367.64



7-METHYLENE-8-NONENENITRILE



PPM

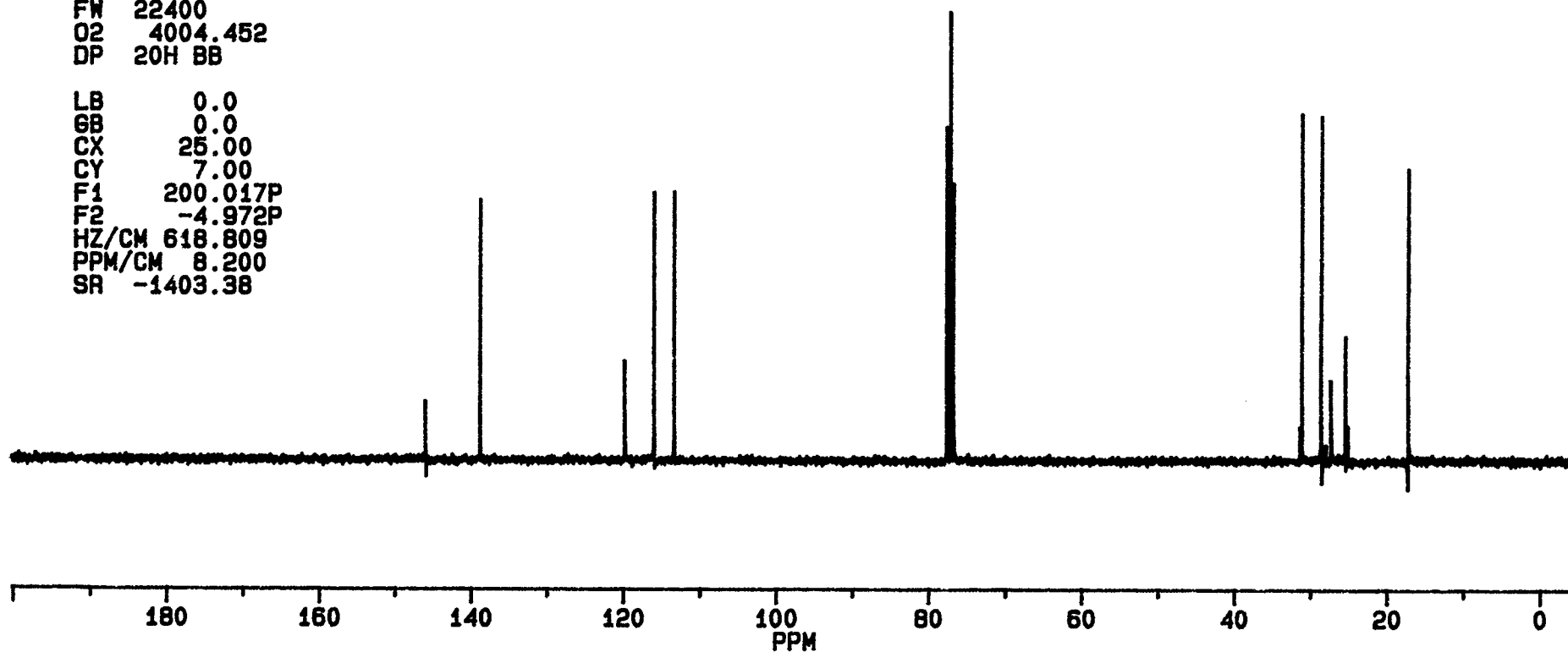
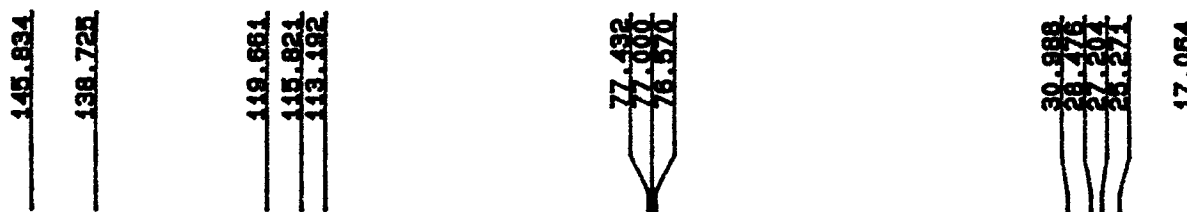
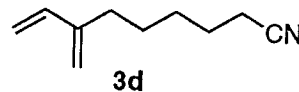
TJ1.111
DATE 9-3-97
TIME 21:05

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SY 75.0
O1 6147.202
SI 16384
TD 16384
SW 17857.143
HZ/PT 2.180

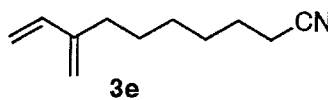
PW 4.0
RD 3.000
AQ .459
RG 200
NS 14080
TE 297

FW 22400
O2 4004.452
DP 20H BB

LB 0.0
GB 0.0
CX 25.00
CY 7.00
F1 200.017P
F2 -4.972P
HZ/CM 618.809
PPM/CM 8.200
SR -1403.38



8-METHYLENE-9-DECENENITRILE



POOR QUALITY ORIGINAL

~~BRUKER~~

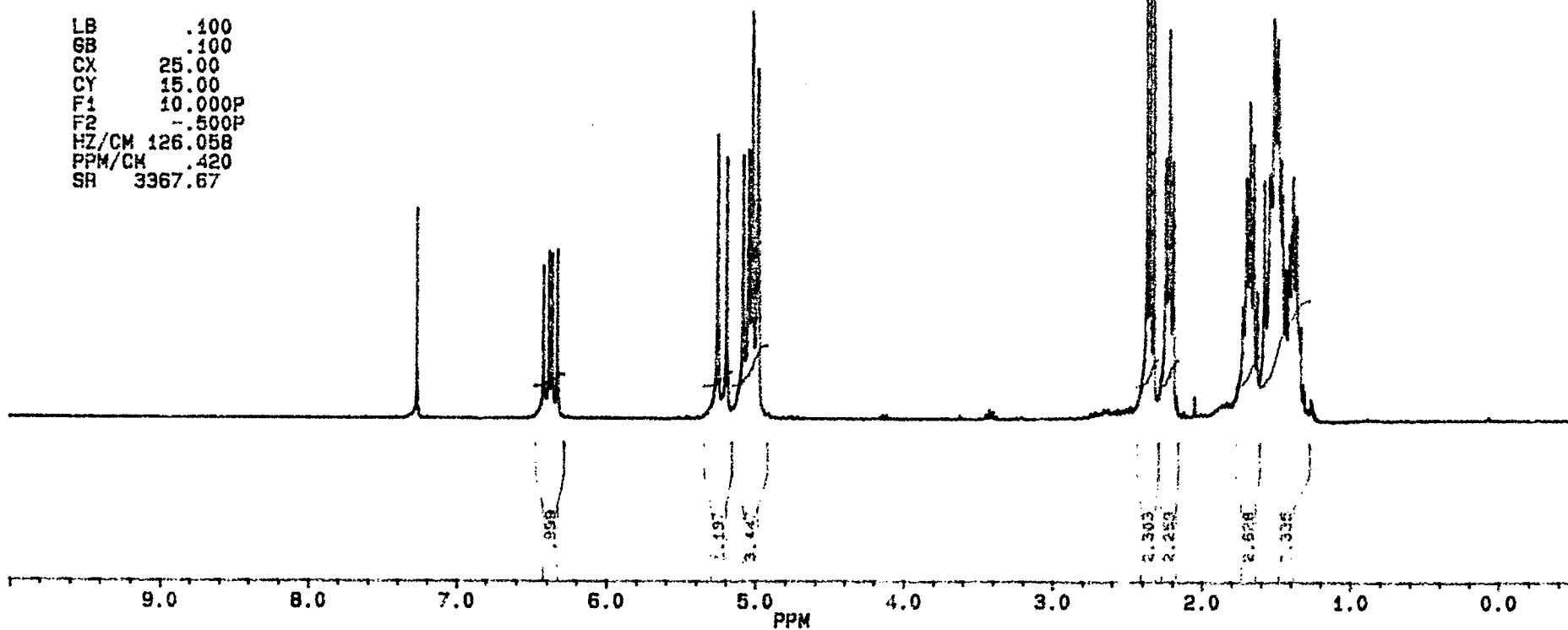
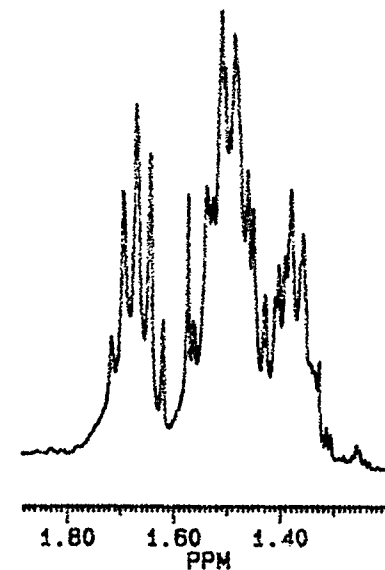
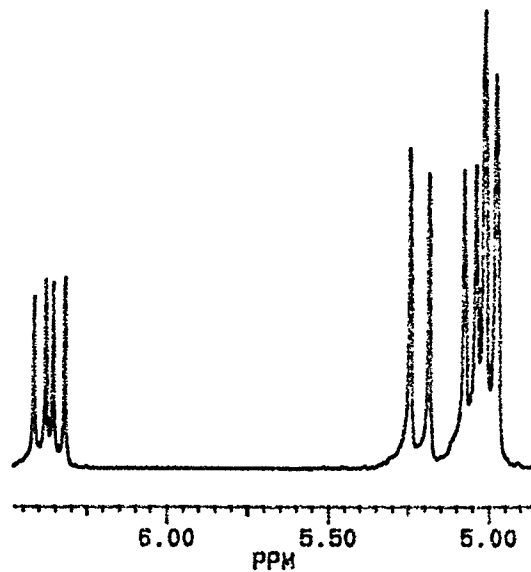
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DATE 31-10-96
TIME 14:52

SA.NO TEMP 101
SOLVENT CDCl3
SF 300.135
SY 210.0
O1 4941.850
SI 16384
TD 16384
SW 4166.667
HZ/PT .509

PW 3.0
RD 2.500
AQ 1.966
RG 10
NS 64
TE 297

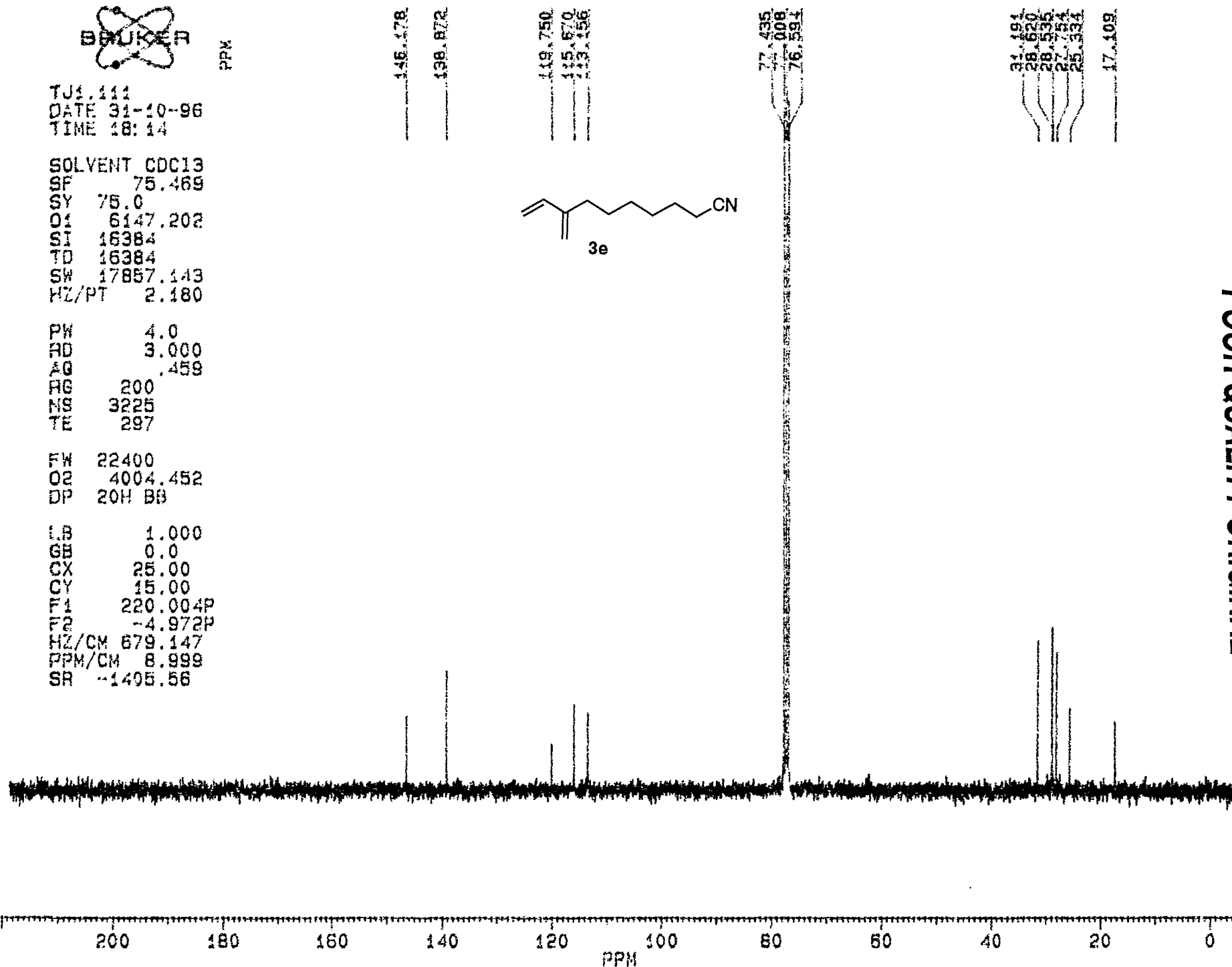
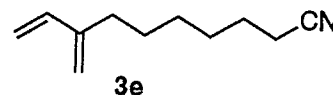
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O2 5684.205
DP 4L P0

LB .100
GB .100
CX 25.00
CY 15.00
F1 10.000P
F2 -.500P
HZ/CM 126.058
PPM/CM .420
SR 3367.67



POOR QUALITY ORIGINAL

8-METHYLENE-9-DECENENITRILE



PPM

TJ4.111
DATE 31-10-96
TIME 18:14

SOLVENT CDC13
SF 75.469
SY 75.0
O1 6147.202
SI 16384
TD 16384
SW 17857.143
HZ/PT 2.180

PW 4.0
RD 3.000
AQ .459
RG 200
NS 3225
TE 297

FW 22400
O2 4004.452
DP 20H B8

LB 1.000
GB 0.0
CX 25.00
CY 15.00
F1 220.004P
F2 -4.972P
HZ/CM 679.147
PPM/CM 8.999
SR -1405.56

200 180 160 140 120 100 80 60 40 20 0

PPM