



J | A | C | S
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

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Supporting Information for

"Intramolecular Aglycon Delivery on Polymer Support : Gatekeeper Monitored
Glycosylation"

by

Yukishige Ito* and Tomoya Ogawa

The Institute of Physical and Chemical Research (RIKEN)

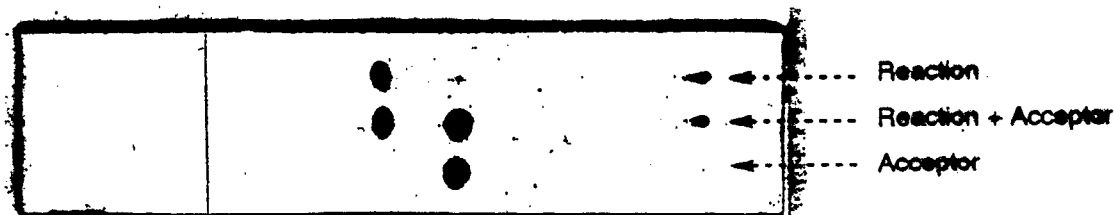
2-1 Hirosawa, Wako-shi, Saitama 351-01, Japan.

1. TLC profile of crude reaction mixtures (Merck silica gel HPTLC)

13a (from 10 + 11a) (hexane-AcOEt 3:1)

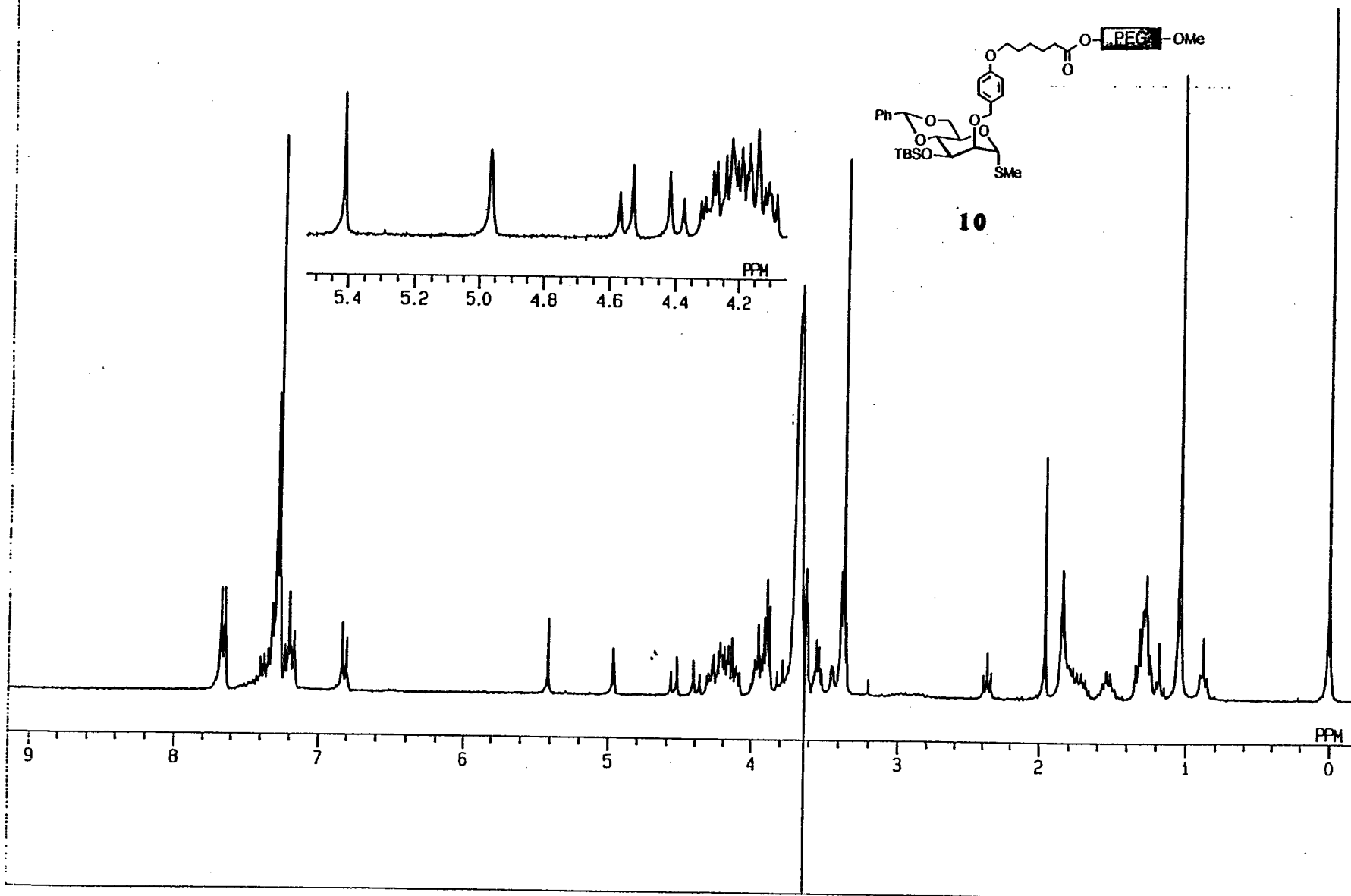


13c (from 10 + 11c) (hexane-AcOEt 2:1)



2. Copies of ^1H -NMR of 10, 12a, 12c and ^1H - and ^{13}C -NMR of 13a, 13b, 13d and 14.

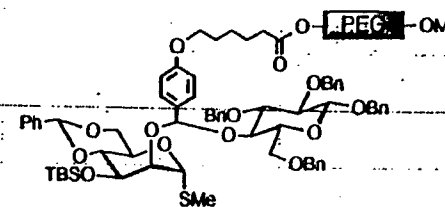
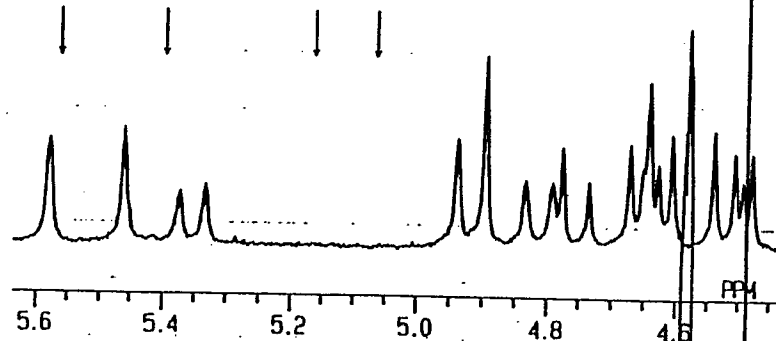
Y-5-36



13-APR-
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EXMOD H
OFR
OBSET
OBFIN
POINT
FREQU
SCANS
ACQTM
PD
PW1
IRNUC 11
CTEMP
SLVNT C1
EXREF
BF
RGAIN
OPERATOI

Y.I10-PEG-DDQ

53.902
2.303
1.000
2.172

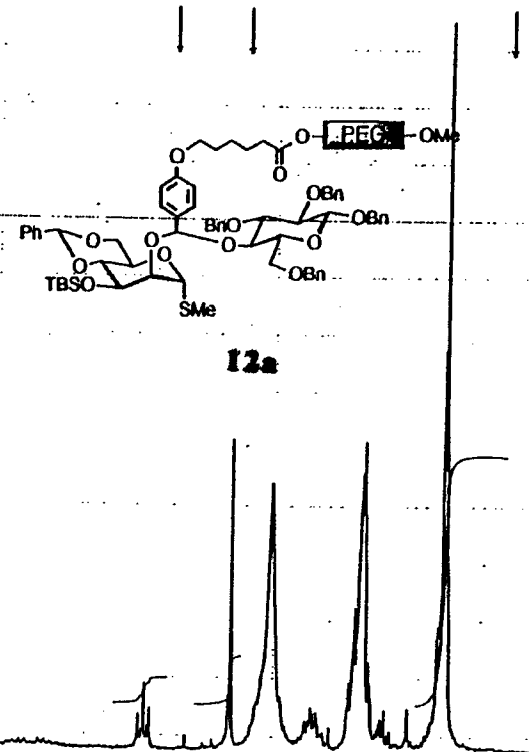


12a

1.615

3.025

15.620



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FREQU
SCANS
ACQTM
PD
PW1
IRNUC 1H
CTEMP
SLVNT CDCL
EXREF
BF
RGAIN 2
OPERATOR :

[illegible]

28-MAY-
OF ILE Q
OBNUC 11
EXMOD HI
OFR
OBSET
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PD
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SLVNT CI
EXREF
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RGAIN
OPERATOR

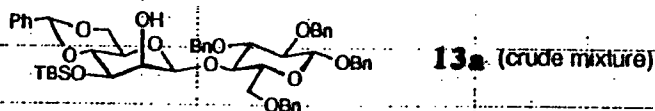
AFTER-WORKUP

Chemical structure of **13a** (crude mixture) is shown, featuring a dimeric sugar derivative with various protecting groups (Ph, TBSO, OBn, OH, BnO).

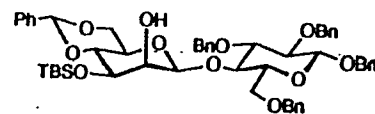
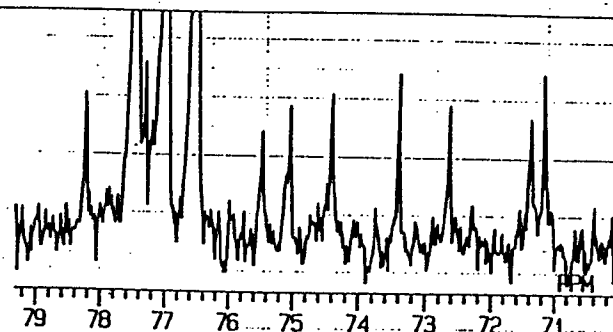
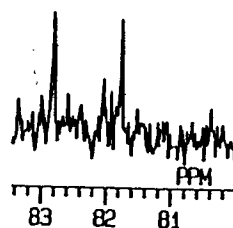
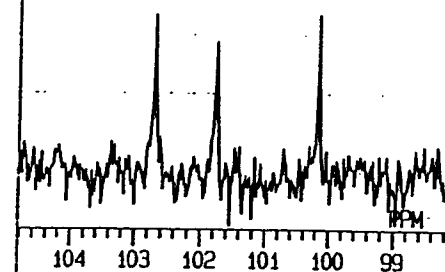
The ^1H NMR spectrum (CDCl₃) displays peaks corresponding to the structure, with the x-axis labeled PPM (0 to 10). The inset shows a zoomed-in view of the 3.0 to 5.5 ppm region.

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OBSET
OBFIN
POINT
FREQU
SCANS
ACQTM
PD
PW1
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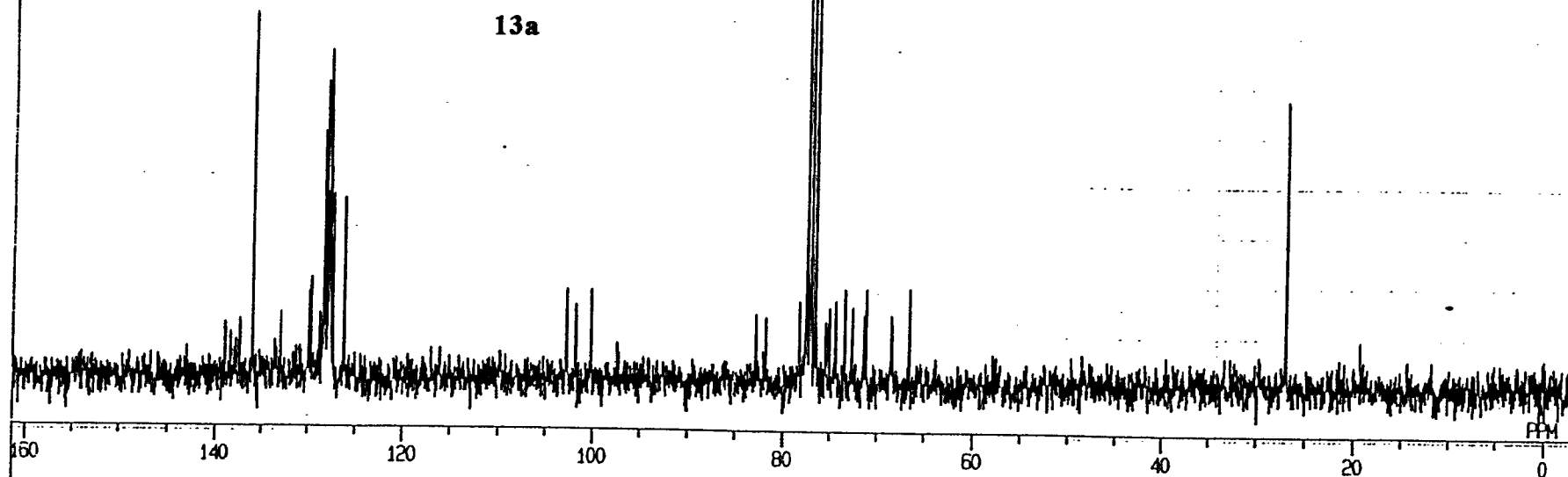
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CTEMP
SLVNT CDCL
EXREF
BF
RGAIN 1
OPERATOR :
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Y-5-40



13a



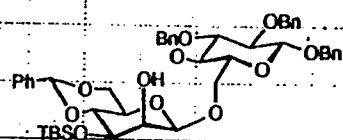
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 OBFIN
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 SCANS
 ACQTH
 PD
 PW1
 IRNUC 1H
 CTEMP
 SLVNT CDC
 EXREF
 BF
 RGAIN
 OPERATOR

Chemical structure of compound **13b** is shown above the spectrum:

CC(C)(C)O[Si](C)(C)C1OC(C2=CC=CC=C2)OC(O)C(OC3=CC=CC=C3)OC1OC3=CC=CC=C3

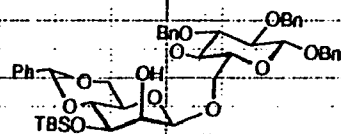
1H NMR spectrum (CDCl₃) of compound **13b** is displayed below the structure. The x-axis represents the chemical shift in PPM, ranging from 0 to 10. Integration values are provided for each major peak group.

Chemical Shift (ppm)	Integration
7.2 - 7.4	6.0
4.8	52.0
4.4	1.0
3.0 - 5.5	13.0
0.1	11.0
1.0 - 1.4	0.0
1.0	1.0
1.4	14.0

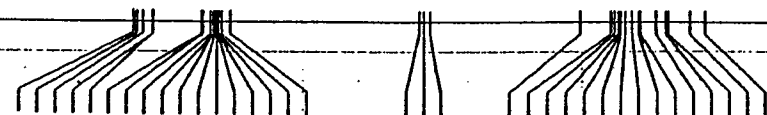
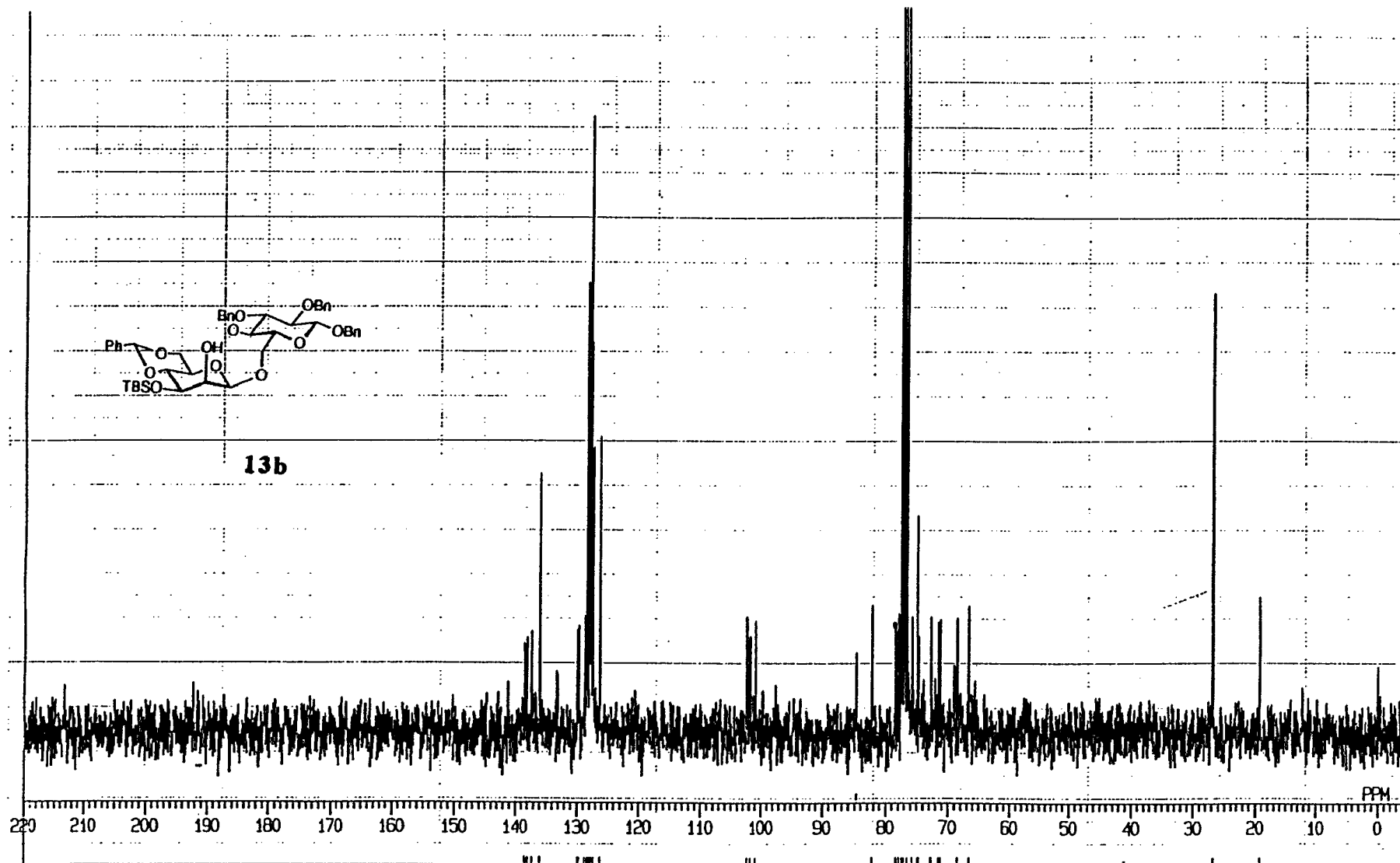


13b

UFH
OBSET
OBFIN
POINT
FREQ
SCANS
ACQTM
PD
PW1
IRNUC 1H
CTEMP
SLVNT CDC
EXREF
BF
RGAIN
OPERATOR



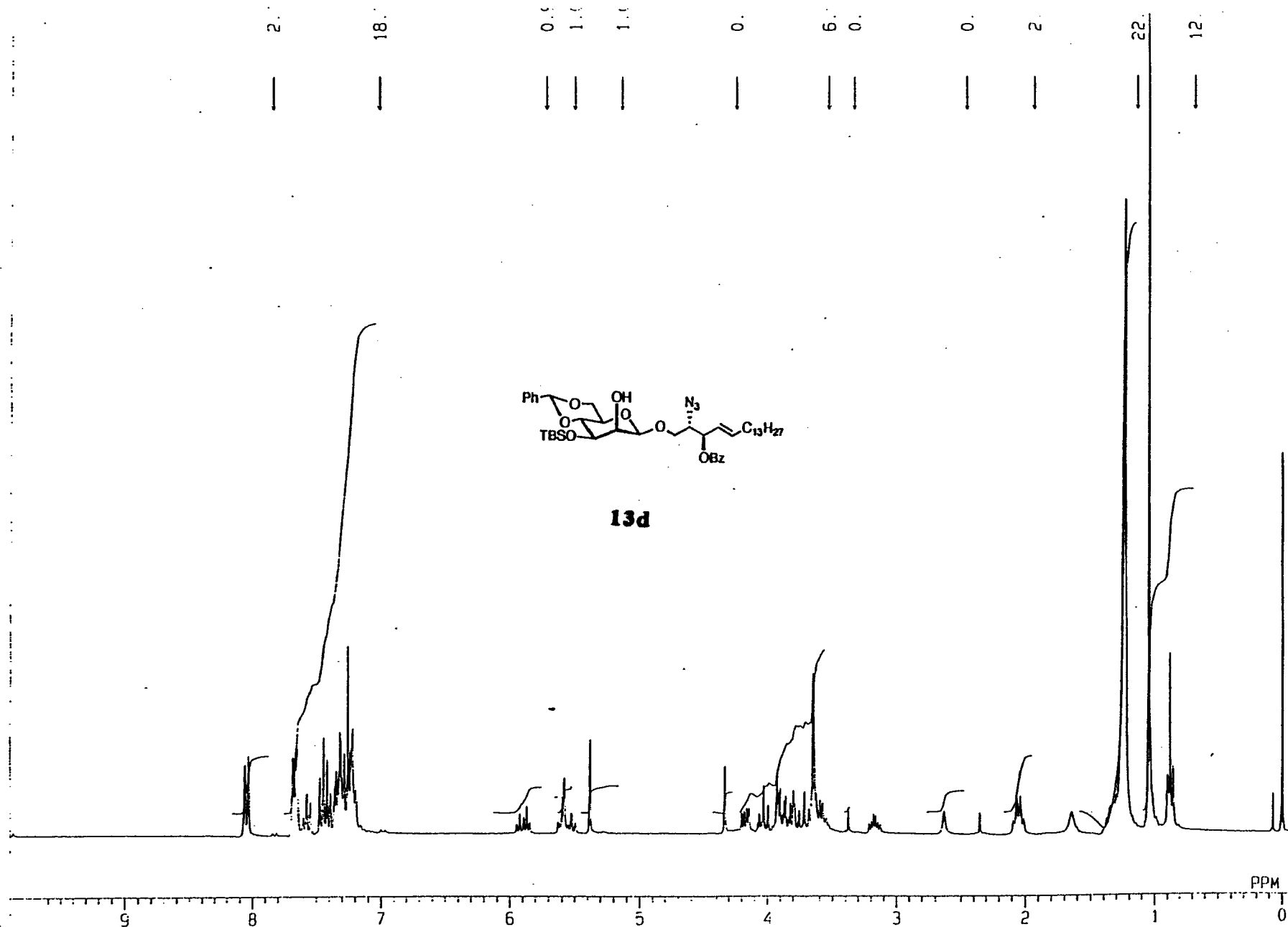
13b



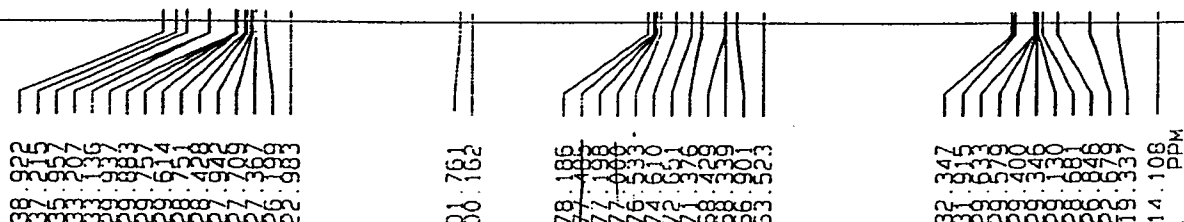
130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220

OFR
 OBSET
 OBEIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
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 CTEMP
 SLVNT CDCl
 EXREF
 BF
 RGAIN 2
 OPERATOR :

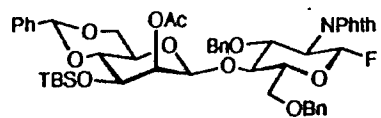
164 53 PPM



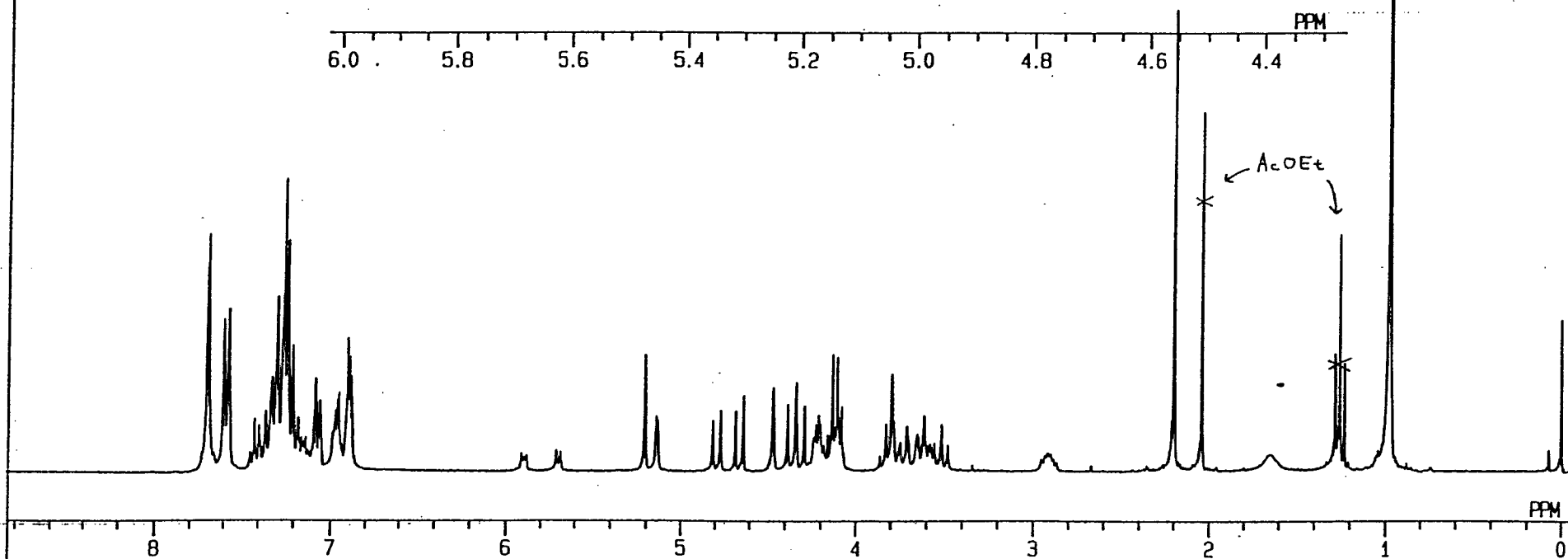
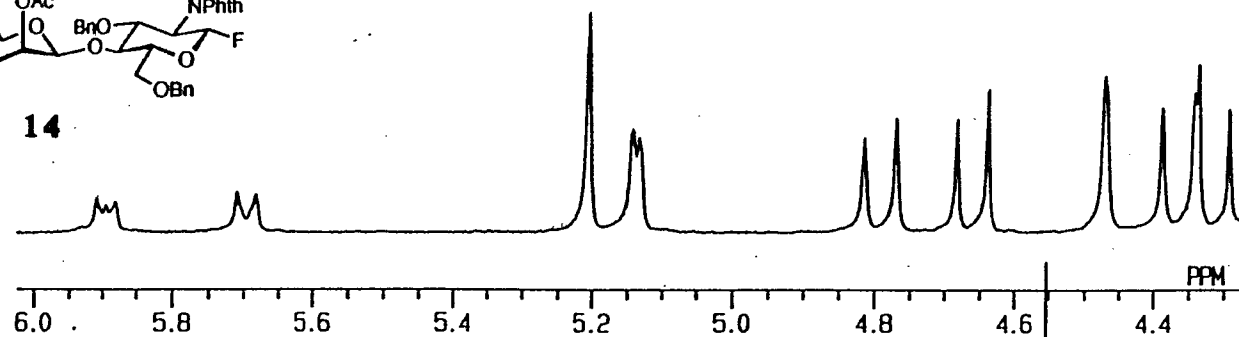
OBSE1
 OBFIN
 POINT
 FREQU
 SCANS
 ACQTM
 PD
 PW1
 IRNUC 1
 CTEMP
 SLVNT C
 EXREF
 BF
 RGAIN
 OPERATO:



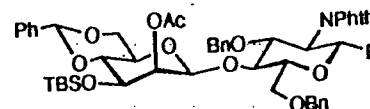
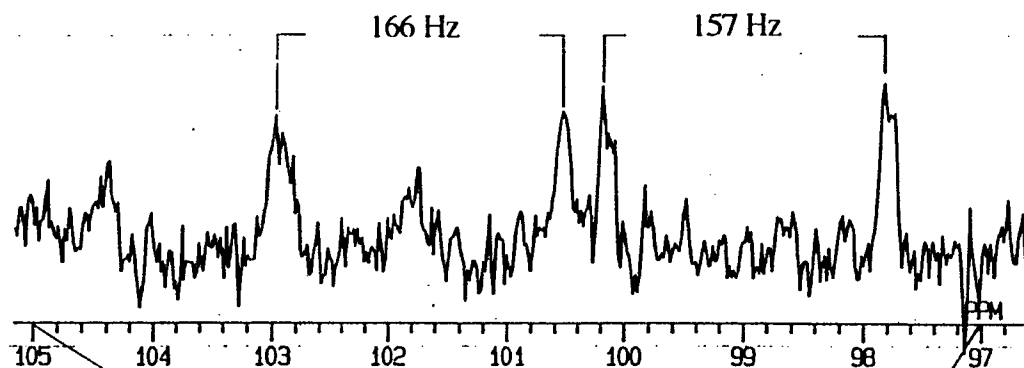
Y-5-y4



14

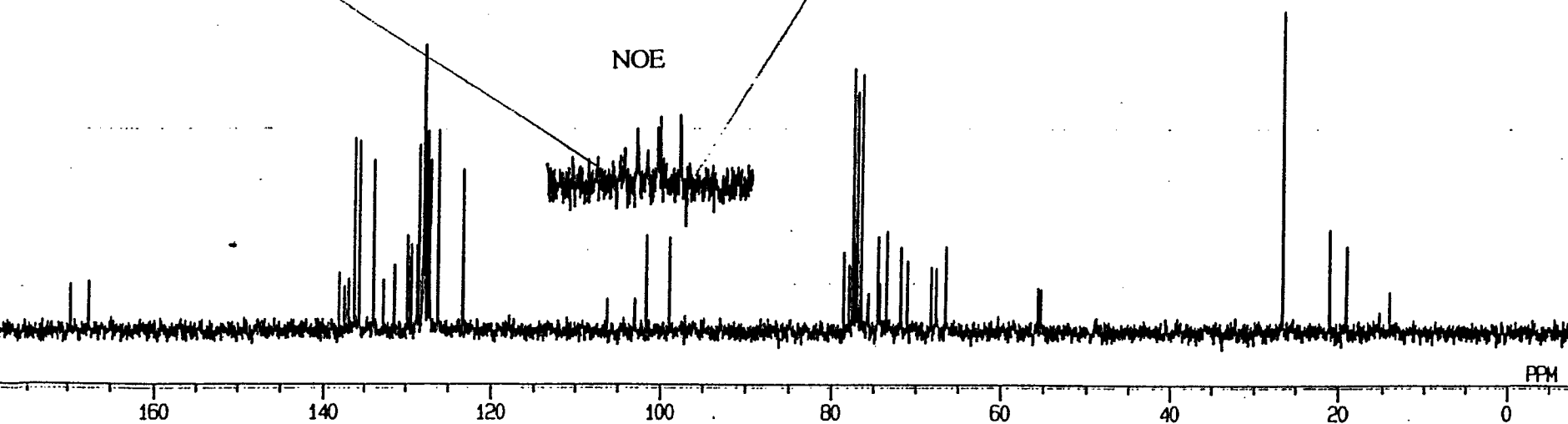


Y-5-94



14

NOE



07-AUG-96

DFILE Q1H

OBNUC 13C

EXMOD BCM

OFB

OBSET

OBFIN

POINT

FREQU

SCANS

ACQTM

PD

PW1

IRNUC 1H

CTEMP

SLVNT CDCL

EXREF

BF

RGAIN 2.

OPERATOR :