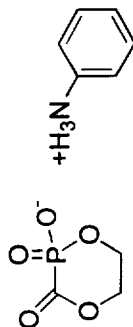


31P NMR

3a



3a

-7.36937



CFC4P31.010
DATE 14-6-94

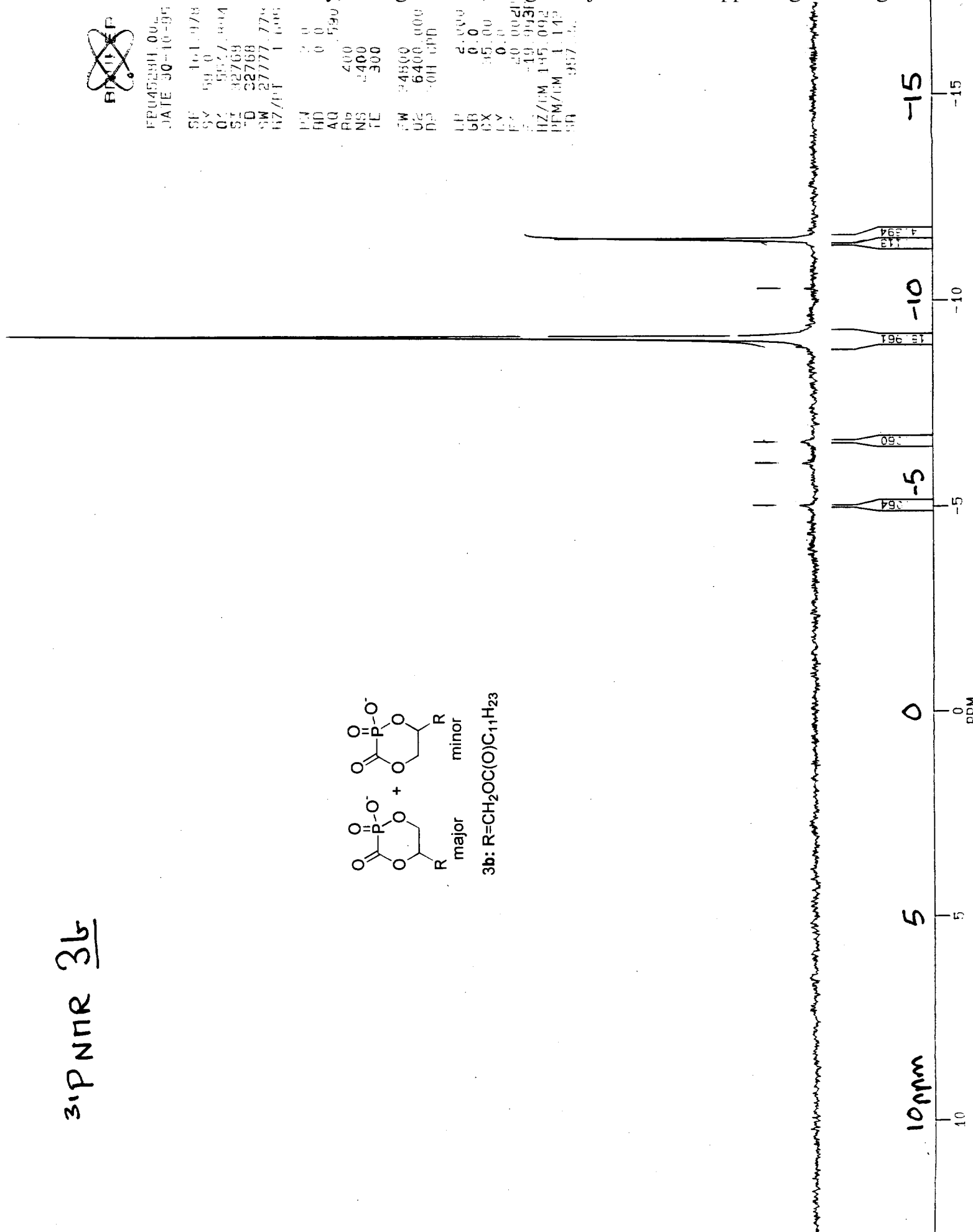
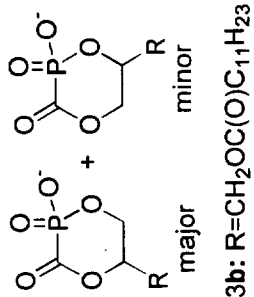
SF 161.978
SY 59.0
O1 5517.894
SI 32768
TD 32768
SW 27777.778
HZ/PT 1.695

PW 3.0
RD 0.0
AQ .590
RG 100
NS 0
TE 300

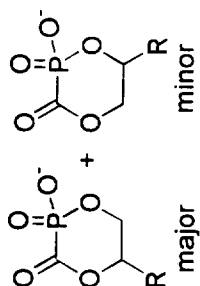
FW 34800
O2 6400.000
DP 30H CPD

LB 0.0
GB 0.0
CX 20.00
CY 0.0
F1 .007P
F2 -14.982P
HZ/CM 121.477
PPM/CM .750
SR 667.90

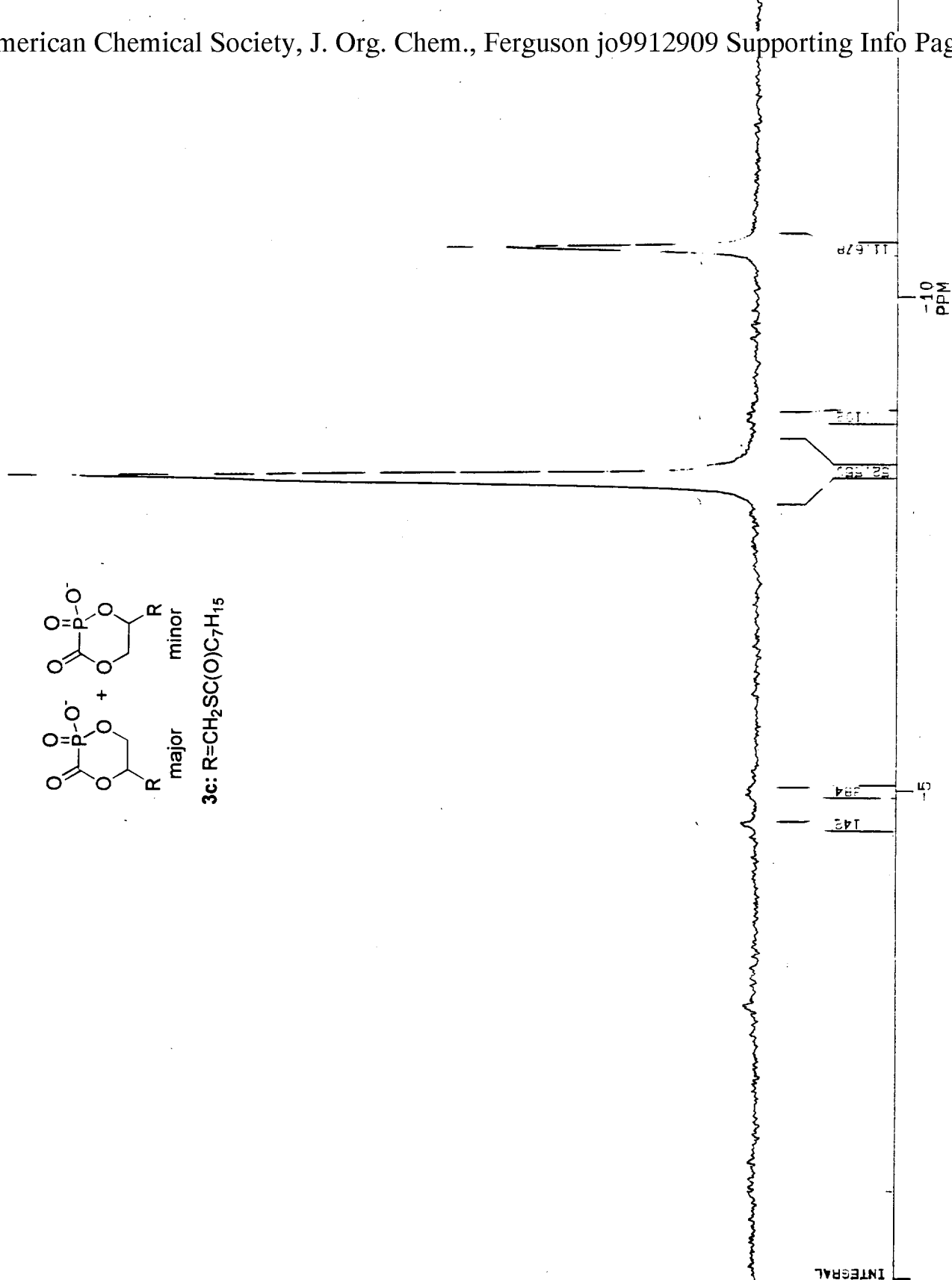
PPM
-5
-10

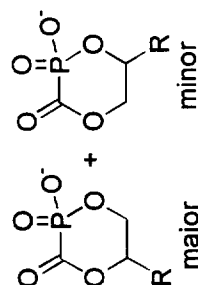
$$\begin{array}{r} 31P \text{ NMR} \\ \hline 36 \end{array}$$


^{31}P NMR 3c



3c: R=CH₂SC(O)C₇H₁₅



^{31}P NMR3d3d: R=CH₂SC(O)C₁₁H₂₃

F8SN531H.002
 DATE 30-11-95
 SF 161.978
 SY 59.0
 Q1 5517.894
 S1 32768
 T0 32768
 SW 27777.778
 HZ/PT 1.695
 PW 3.0
 PD 0.0
 AQ 530
 RG 100
 NS 128
 TE 300
 FW 34800
 U2 5400.000
 DP 30H CPD
 LB 2.000
 GB 0.0
 CX 35.00
 CY 0.0
 F1 20.002P
 F2 -19.993P
 HZ/CM 185.952
 PPM/CM 1.143
 SR 957.32

-15 ppm

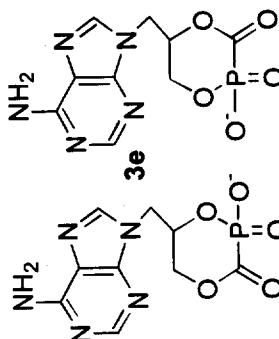
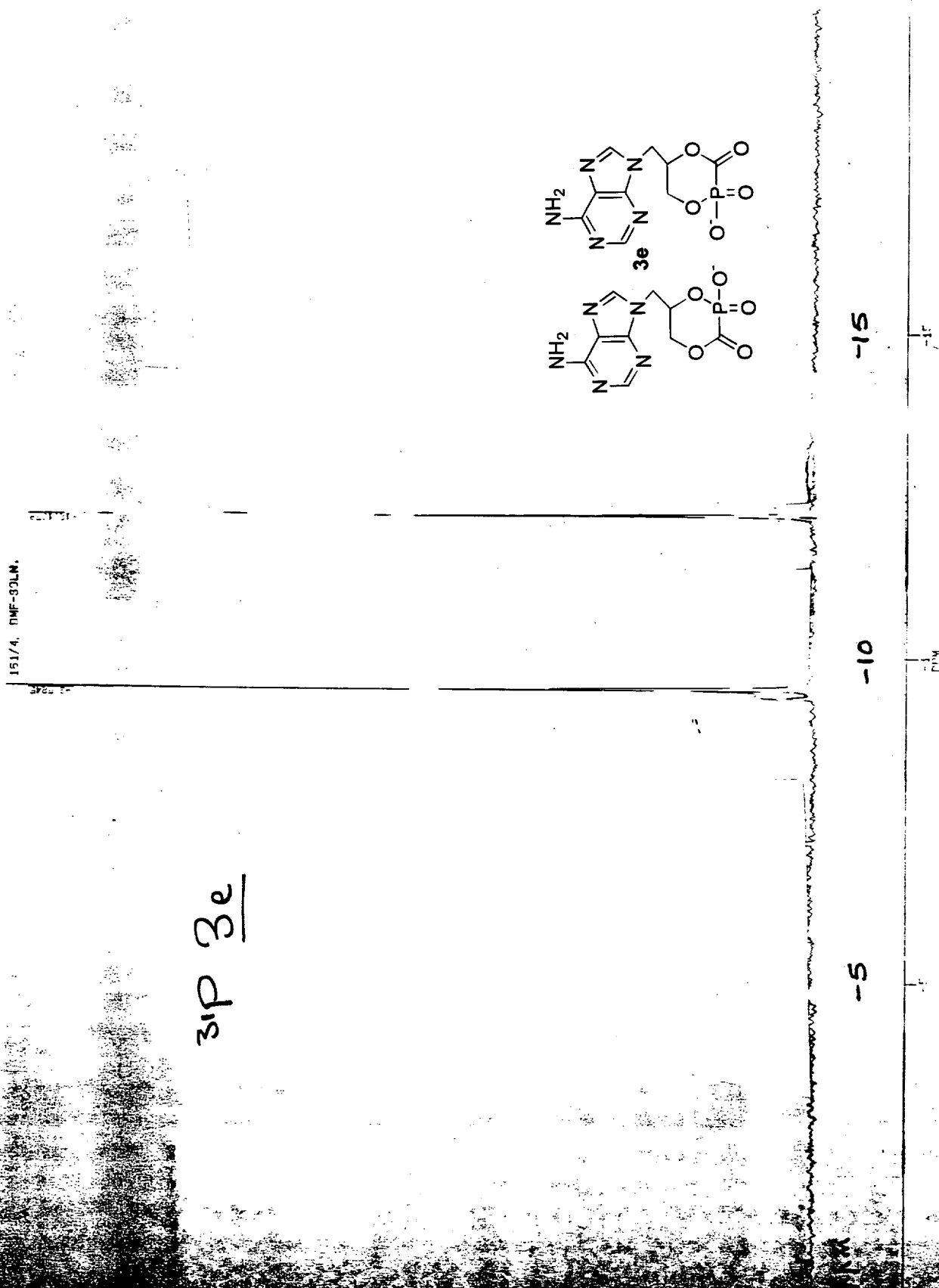
-10

-5

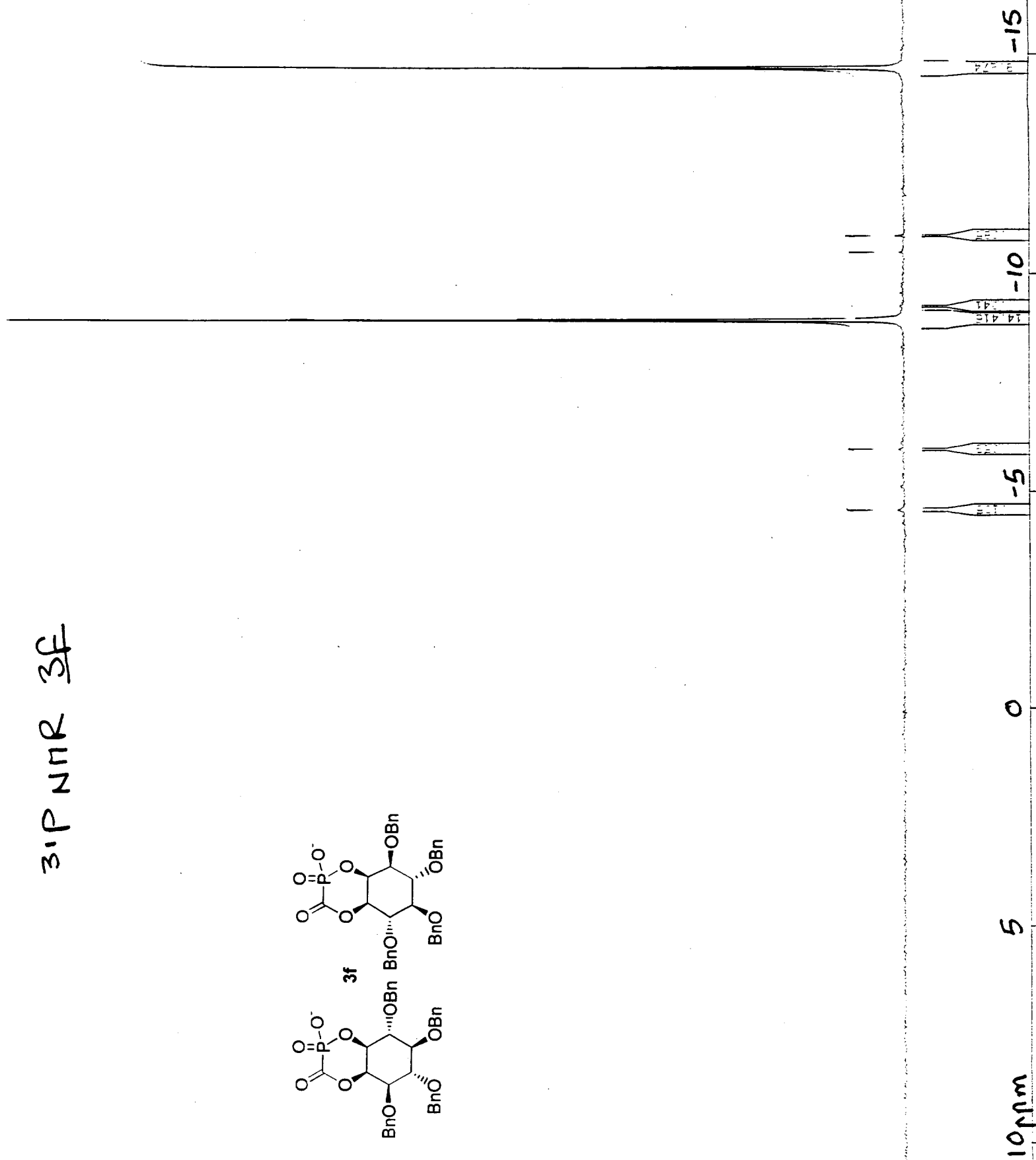
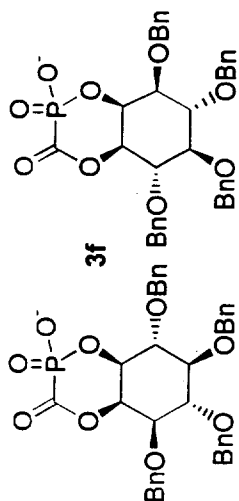
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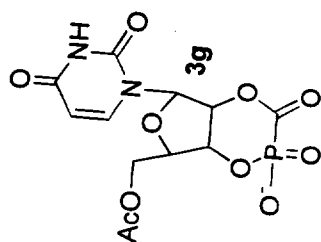
ppm

31p 3e



^3P NMR 3f





152/4, DMF-d₅

³¹P NMR 3g Na⁺ salt

