

Electronic Supplementary Information

Synthesis and biological evaluation of a novel cardiolipin affinity matrix

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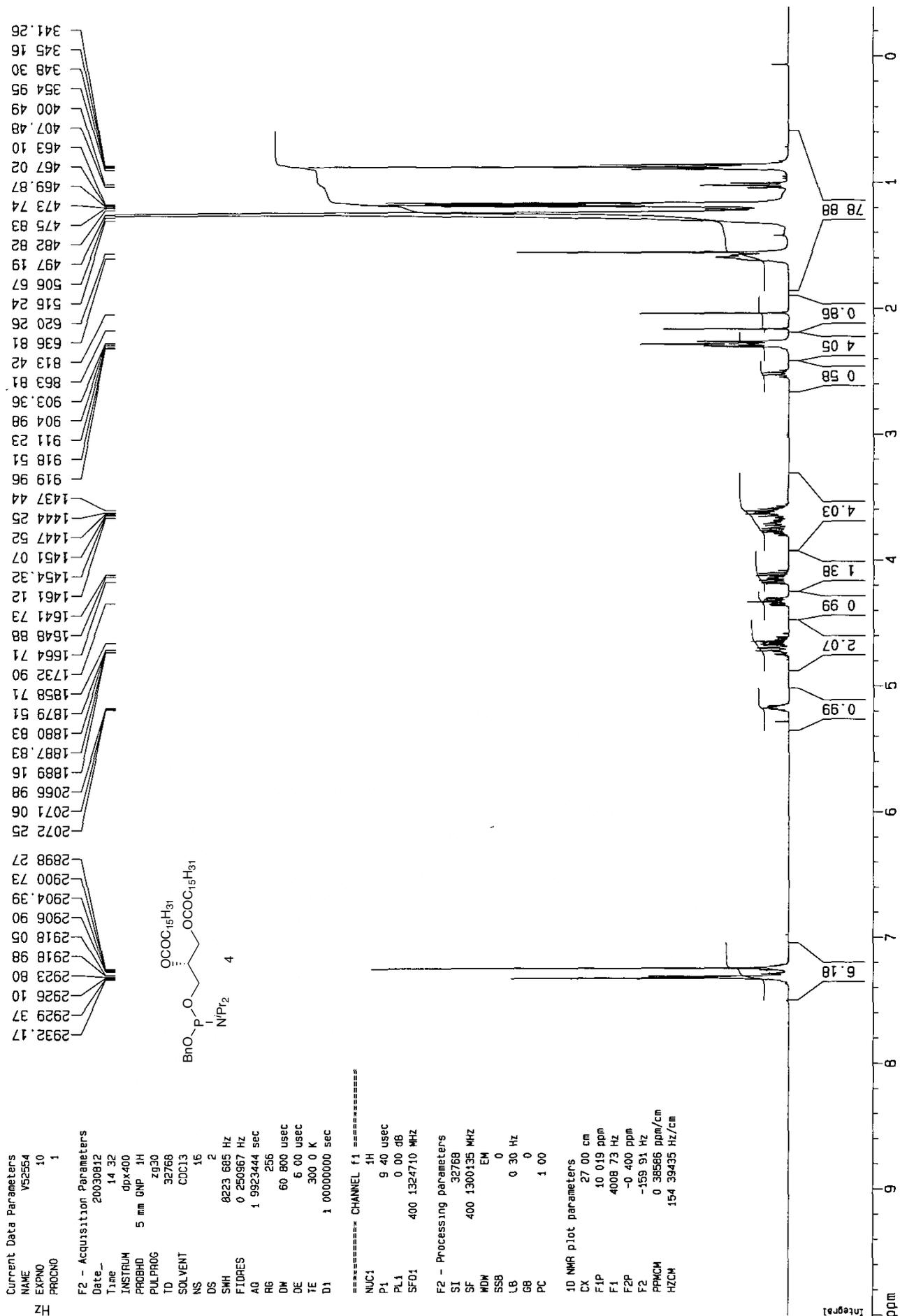
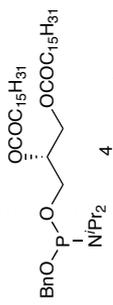


Figure ESI-1 400 MHz ¹H NMR of 4 in CDCl₃

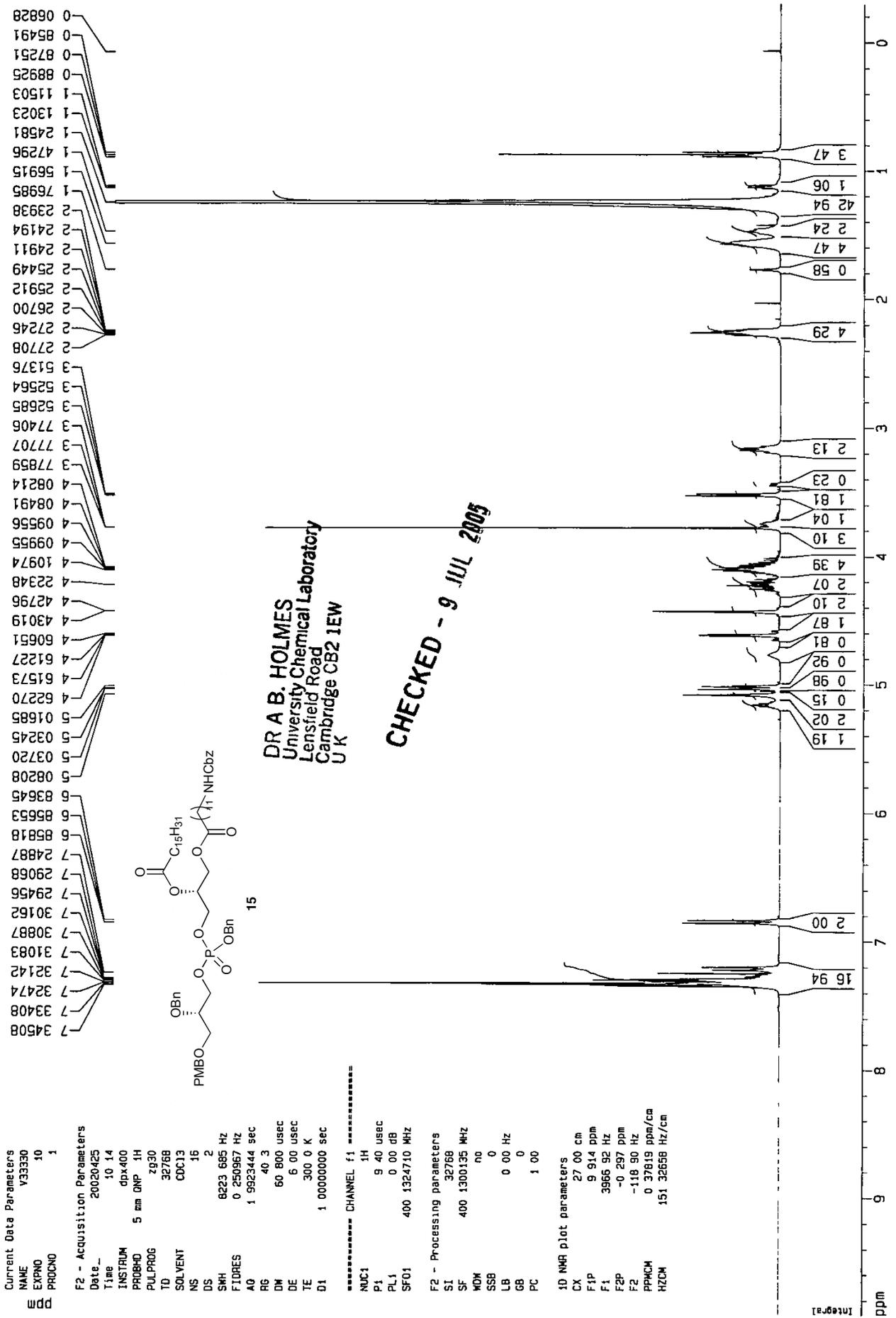
151.649
151.496

V52554
ABH01/SJCC17
stephan amrein
31PCPD
CDCl3
Position 12



ppm

Figure ESI-2 162 MHz ³¹P NMR of 4 in CDCl₃



V33330
 JWB1004/MKJ-A-87-F
 JWBurton
 13C
 CDC13
 Position 10

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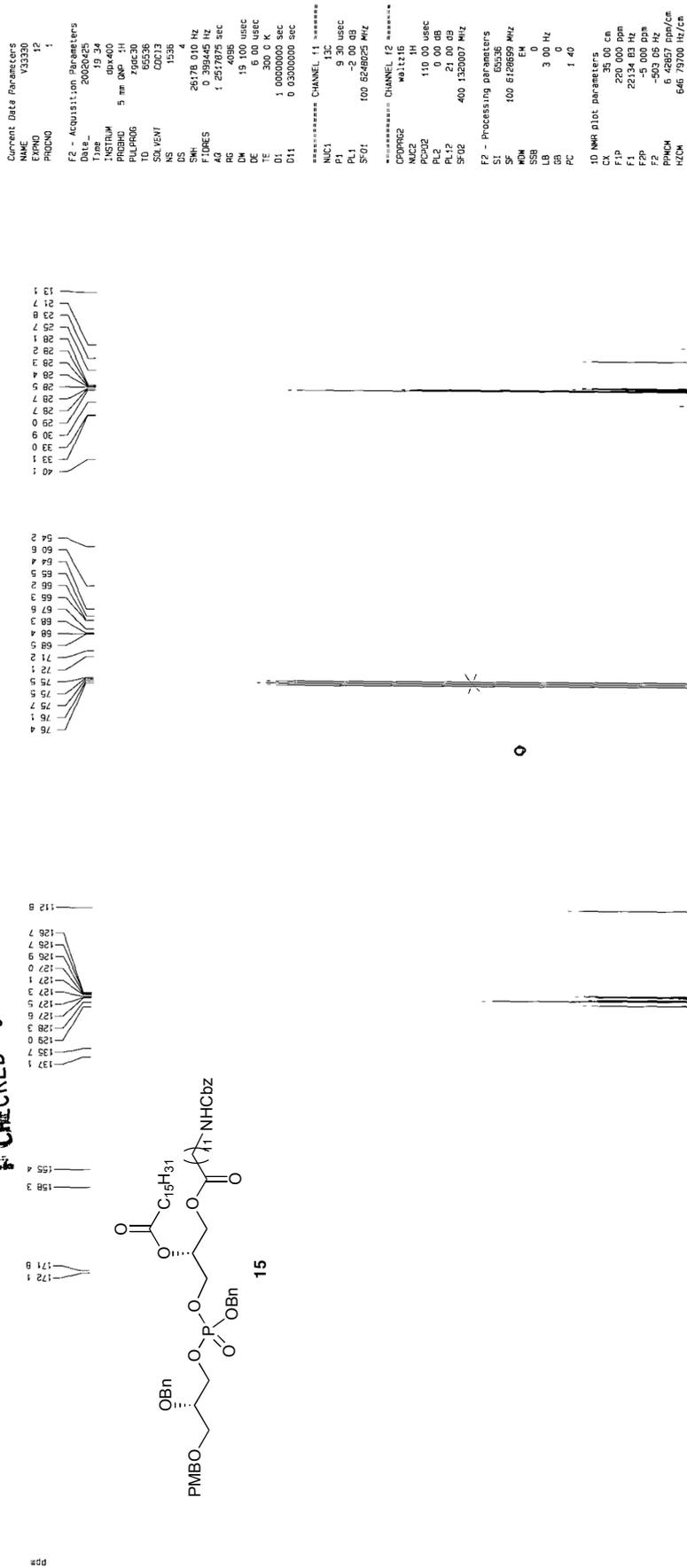


Figure ESI-4 100 MHz ¹³C NMR of 15 in CDCl₃

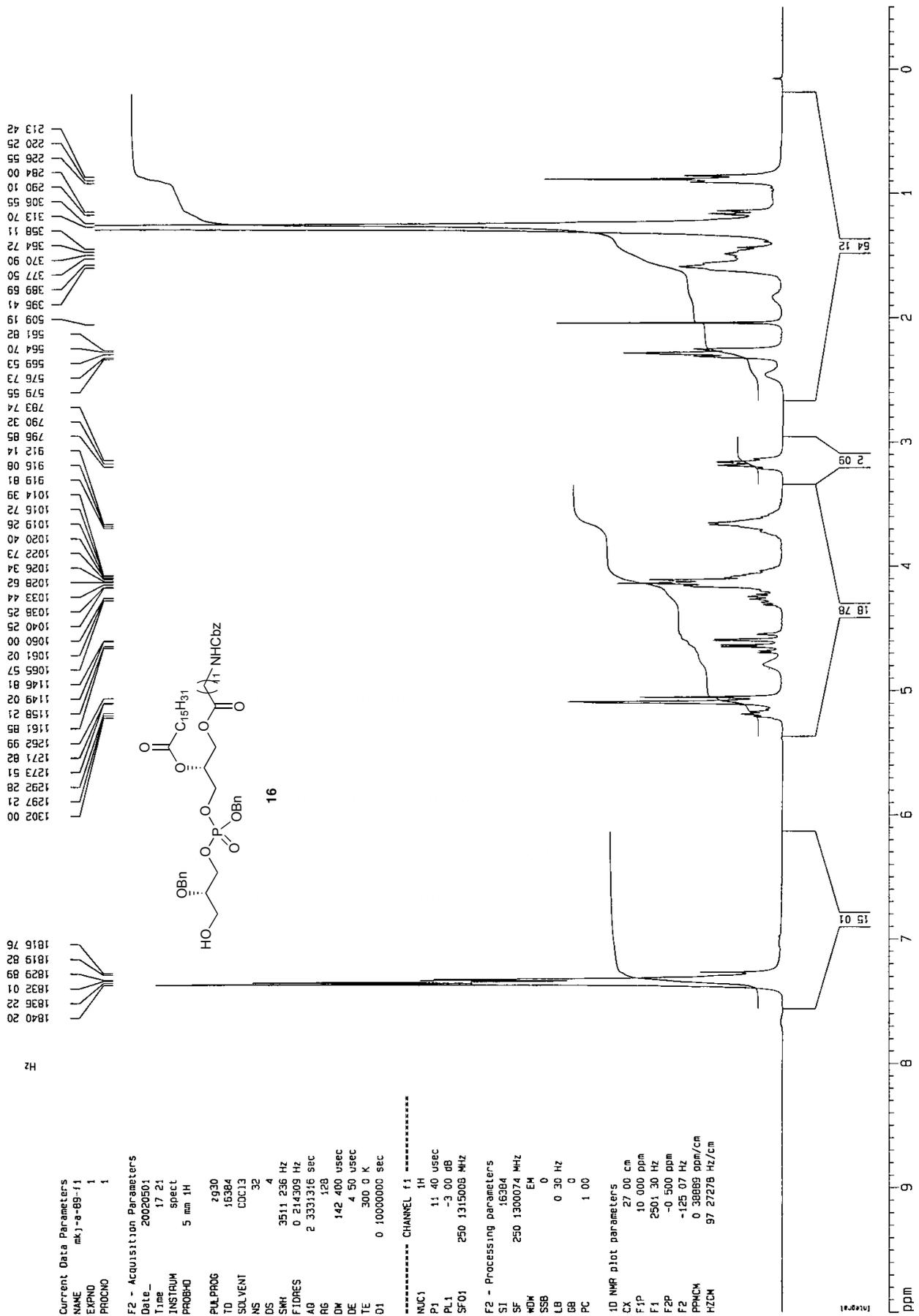


Figure ESI-6 250 MHz ¹H NMR of 16 in CDCl₃

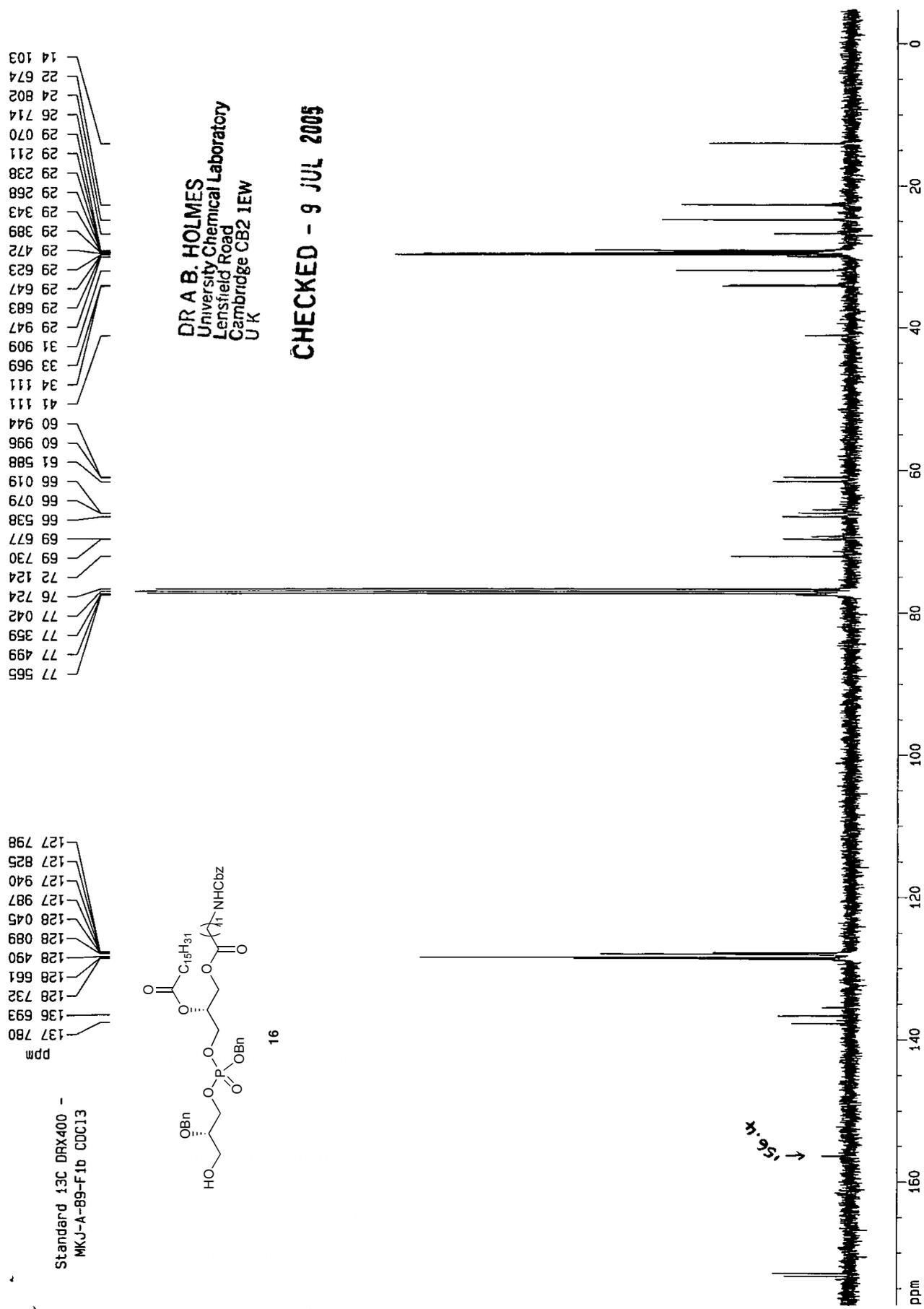


Figure ESI-7 100 MHz ¹³C NMR of **16** in CDCl₃

Standard DPX400
 MKJ-A-89-F1
 phos250m200 cpd CDC13 /disk2 service 6

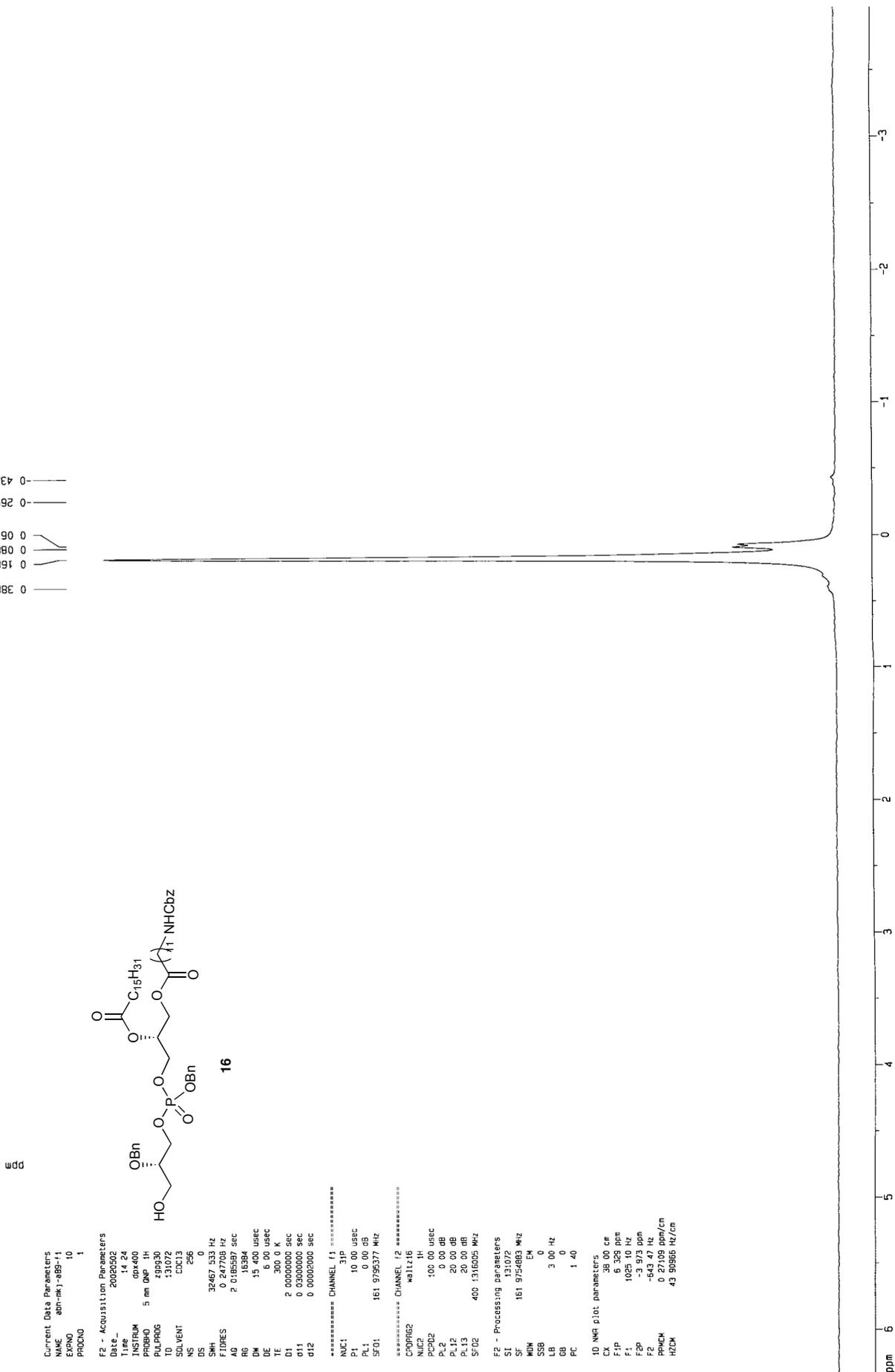


Figure ESI-8 162 MHz ³¹P NMR of 16 in CDCl₃

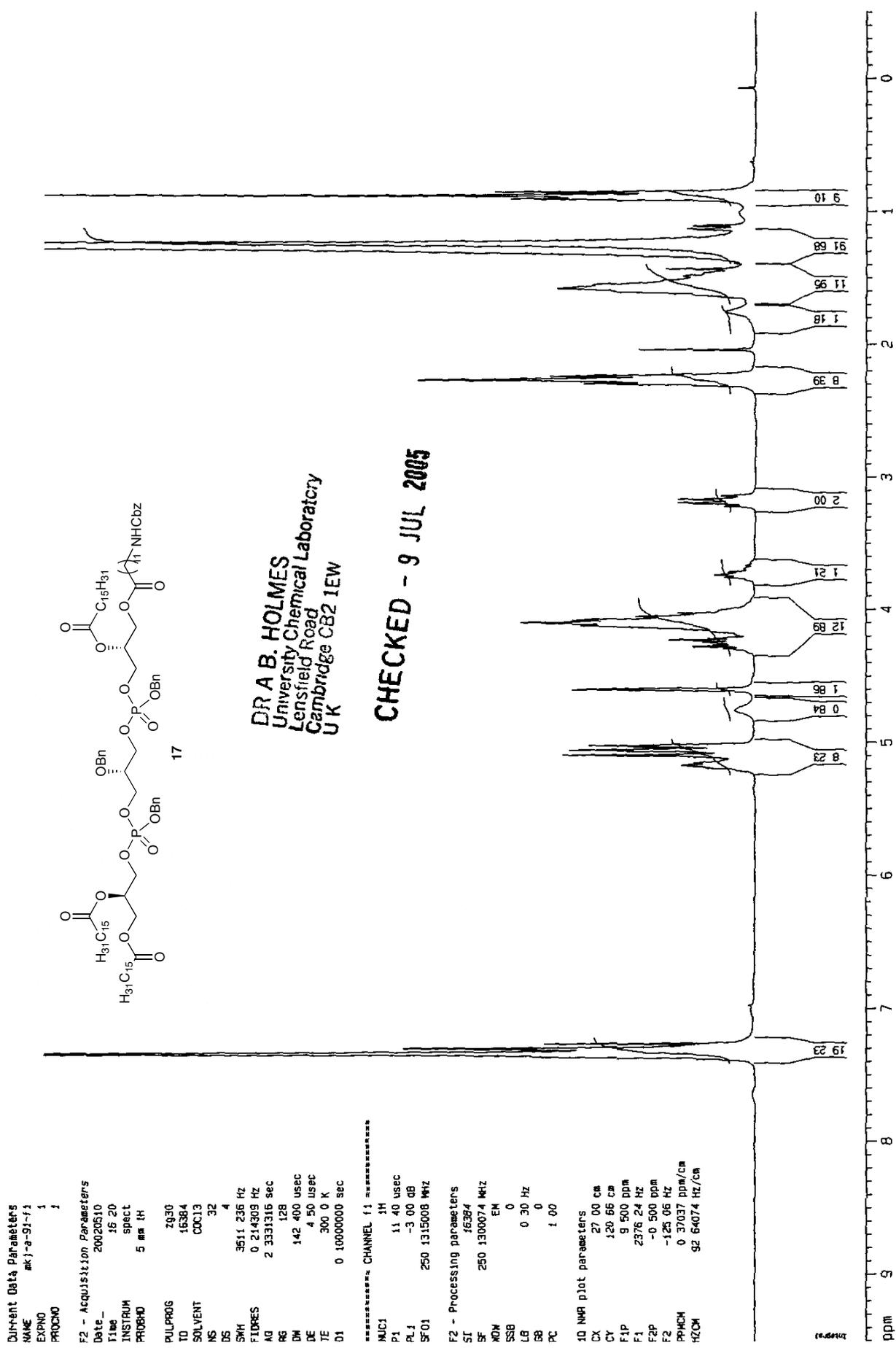
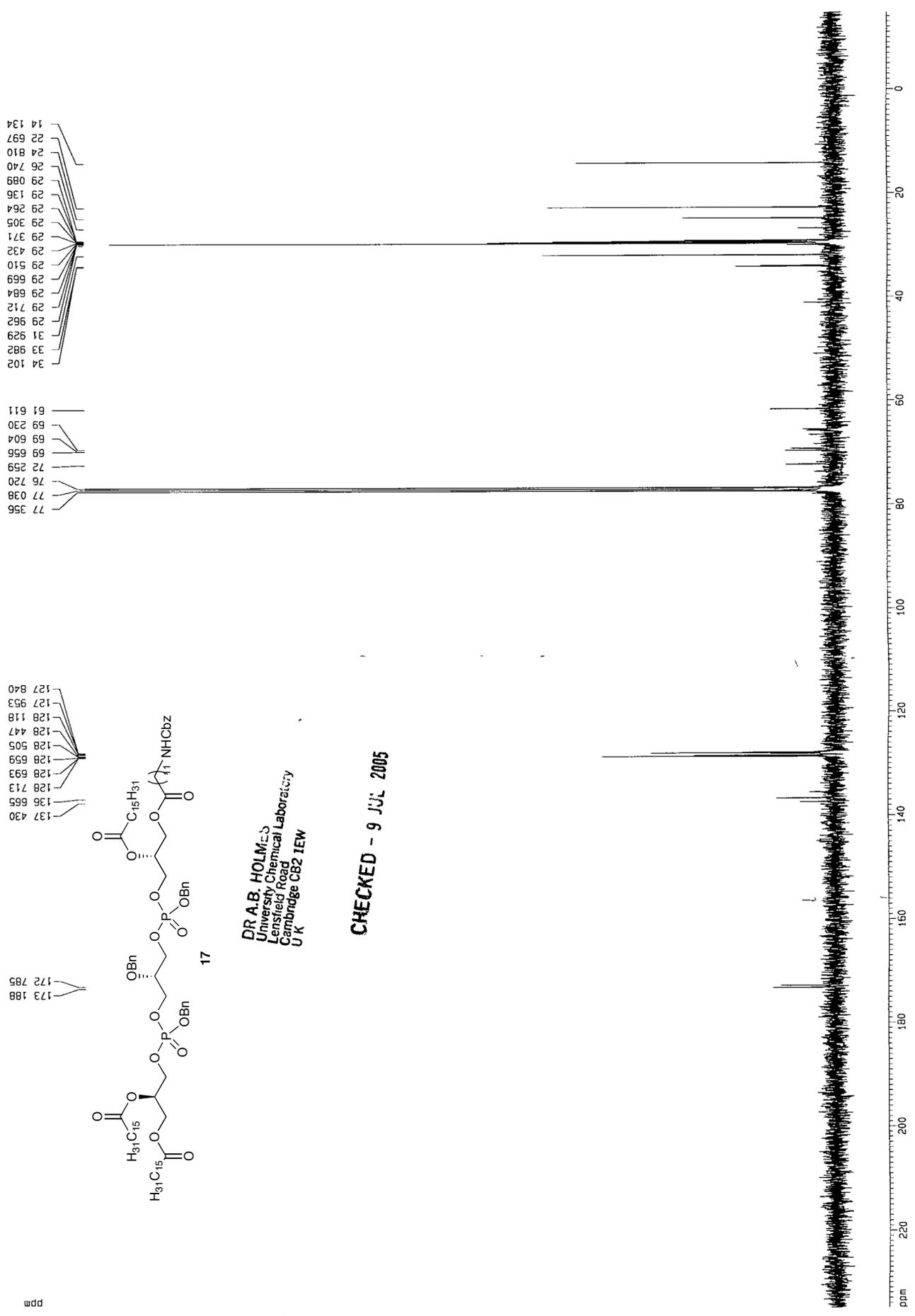


Figure ESI-9 250 MHz ¹H NMR of 17 in CDCl₃



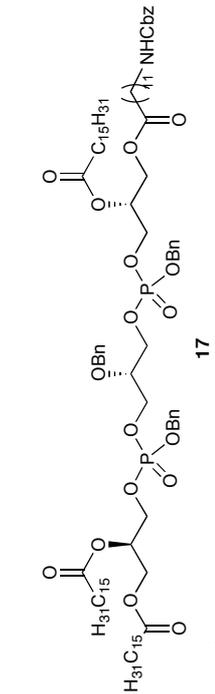
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Figure ESI-10 100 MHz ¹³C NMR of 17 in CDCl₃

Standard DFX400
 MKJ-A-103F1
 phos250m200 cpd CDC13 /disk2 service 21

0.8888
 0.3324
 0.2810

0.0
 0.2
 0.4
 0.6



```

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PROCNO        1

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PULPROG       zgpg30
TD            131072
SOLVENT       CDCl3
NS            1024
DS            0
SWH           72592.703 Hz
FIDRES        0.556890 Hz
AQ            0.8978832 sec
RG            4597.6
DE            6.850 usec
TE            300.0 K
IE            2.00000000 sec
D1            0.03000000 sec
d11           0.03000000 sec
d12           0.00020000 sec

***** CHANNEL f1 *****
NUC1           31P
P1            10.00 usec
PL1           0.00 dB
SFO1          161.9795377 MHz

***** CHANNEL f2 *****
CPDPRG2       waltz16
NUC2           1H
PCPD2         100.00 usec
PL2           0.00 dB
PL3           20.00 dB
PL13          20.00 dB
SFO2          400.1316005 MHz

F2 - Processing parameters
SI            131072
SF            161.9754683 MHz
NUM           0
MUM           0
LB            3.00 Hz
GB            0
PC            1.40

ID_NMR plot parameters
CX            38.00 cm
F1P           250.000 ppm
F1            40.8388 Hz
F2P           -200.000 ppm
F2            -32.39510 Hz
PPMCK        11.84211 ppm/cm
HZCK         1918.13098 Hz/cm
  
```

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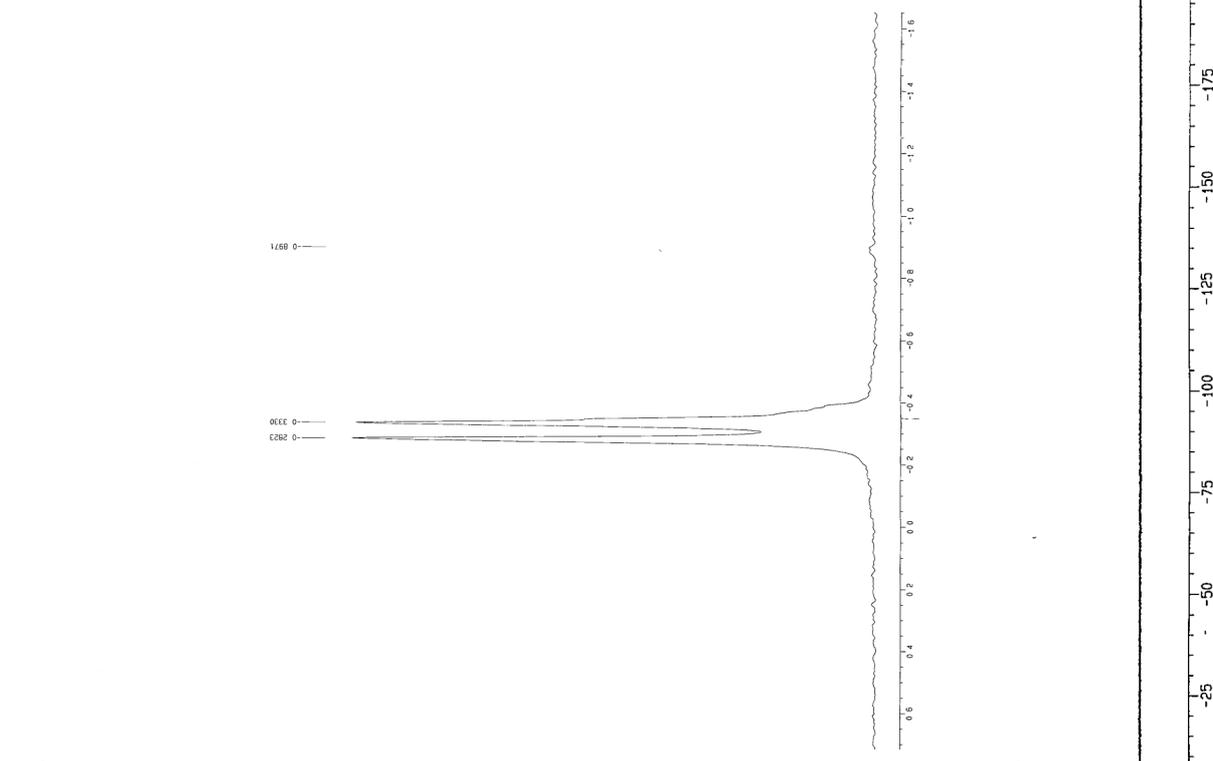
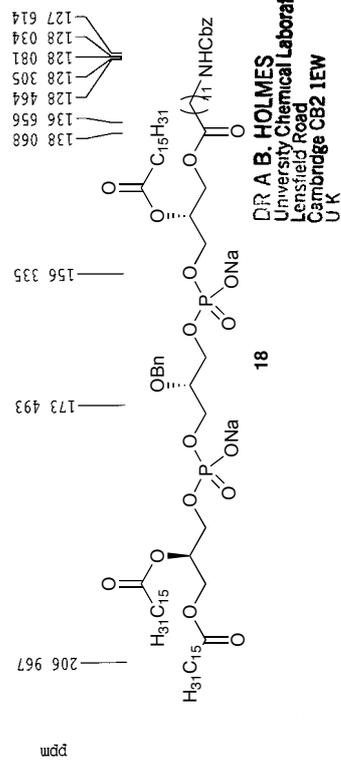


Figure ESI-11 162 MHz ³¹P NMR of 17 in CDCl₃

Standard DRX500 Cryoprobe
abh-mkj-a-105



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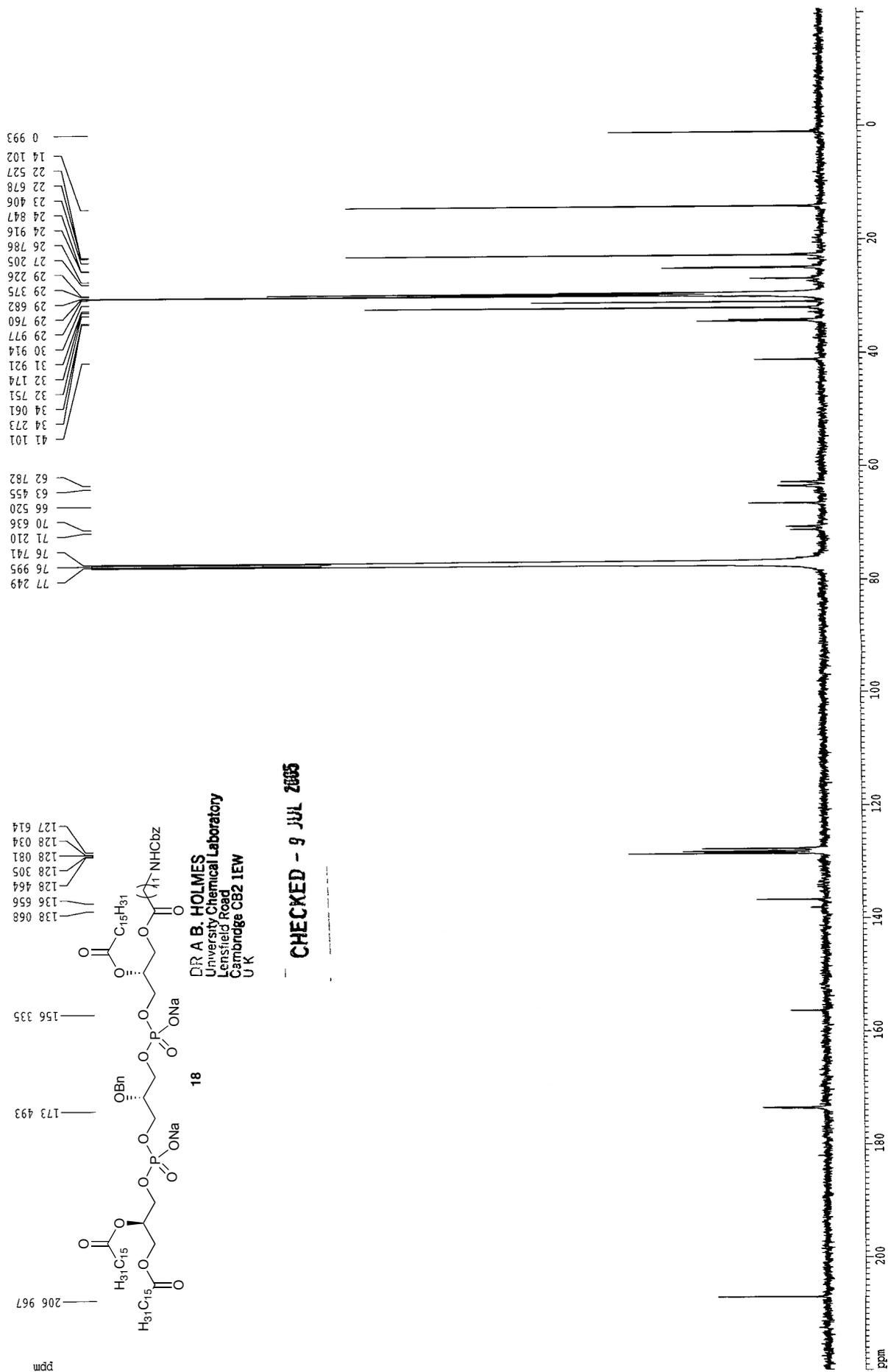
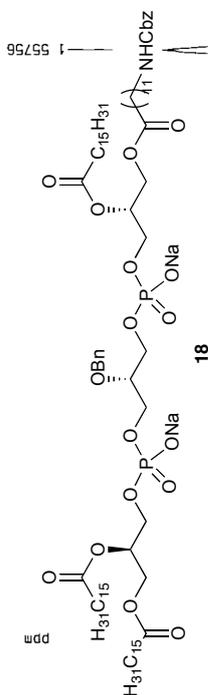


Figure ESI-13 125 MHz ^{13}C NMR of **18** in CDCl_3

Standard DPX400 31P Ref To H3PD4



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PROCNO    1
PRDNO     1
F2 - Acquisition Parameters
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Time      14.44
INSTRUM   dpx400
PROBHD    5 mm QNP 1H
PULPROG   zgpg30
TD         65536
SOLVENT   CDCl3
NS         516
DS         0
AQ         3278.942 Hz
FIDRES    0.197653 Hz
AQ         2.5297396 sec
RG         13004
DE         154.400 usec
DE         5.00 usec
TE         300.0 K
D1         2.00000000 sec
d11        0.03000000 sec
d12        0.00020000 sec
***** CHANNEL f1 *****
NUC1       31P
P1         10.00 usec
PL1        0.00 dB
SFO1       161.9753930 MHz
***** CHANNEL f2 *****
CPDPRG2   waltz16
NUC2       13C
PCPD2     100.00 usec
PL2        0.00 dB
PL12       20.00 dB
PL13       20.00 dB
SFO2       400.1315005 MHz
F2 - Processing parameters
SI         32768
SF         161.9754953 MHz
AQ         1.00 sec
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
1D NMR plot parameters
CX         38.00 cm
F1P        5.441 ppm
F1         881.26 Hz
F2P        -2.776 ppm
F2         -449.71 Hz
PRNCH     0
PRNCH     21624 ppm/cm
HZCH      35.02551 Hz/cm
  
```

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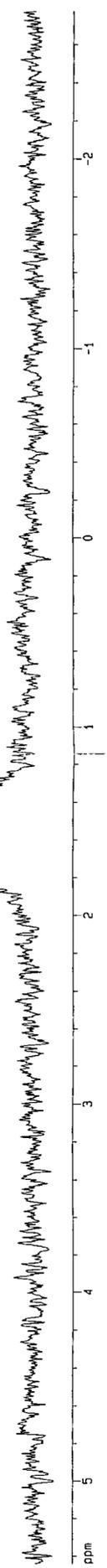


Figure ESI-14 125 MHz ¹³C NMR of 18 in CDCl₃

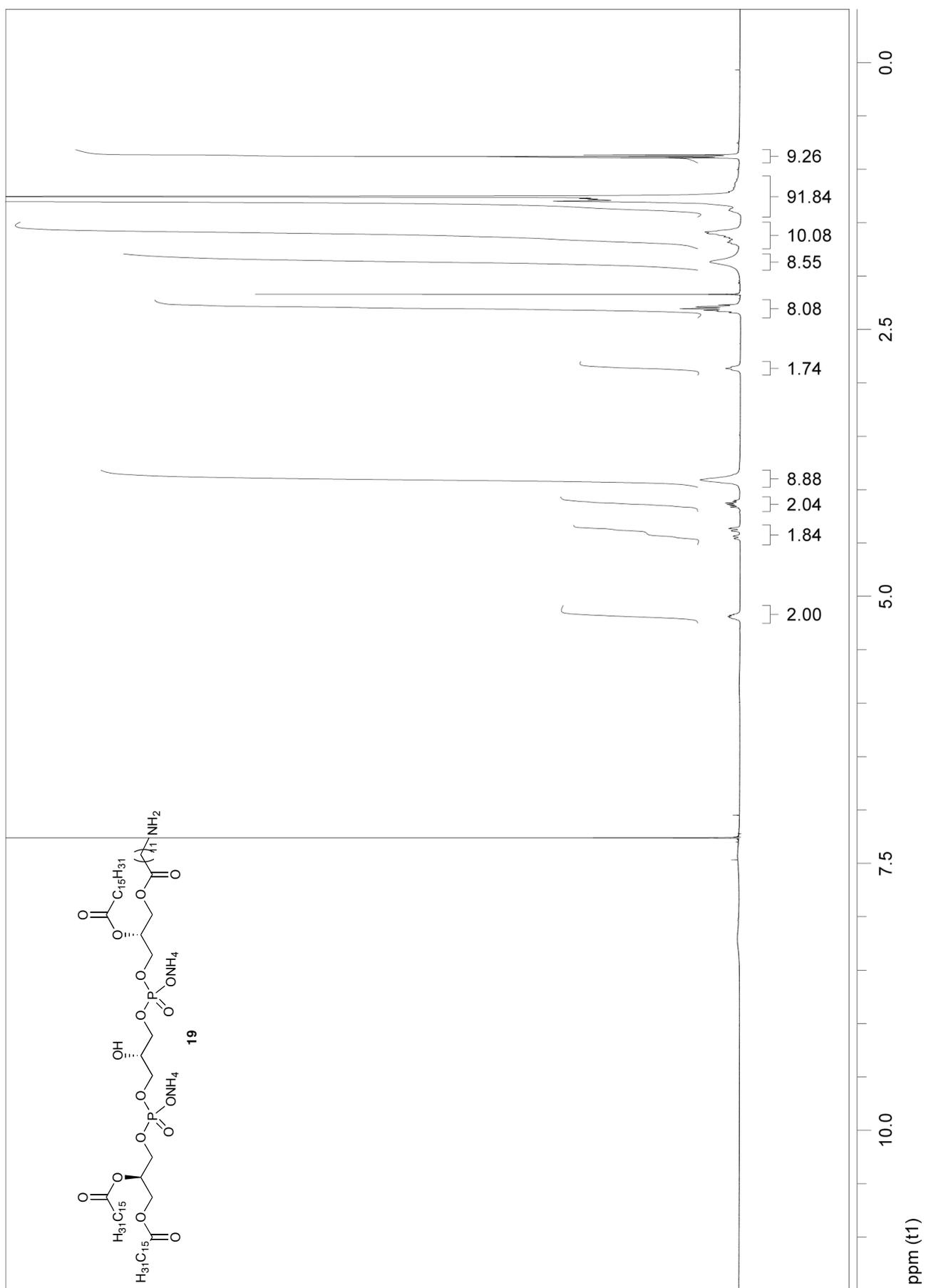


Figure ESI-15 500 MHz ¹H NMR of **19** in CDCl₃

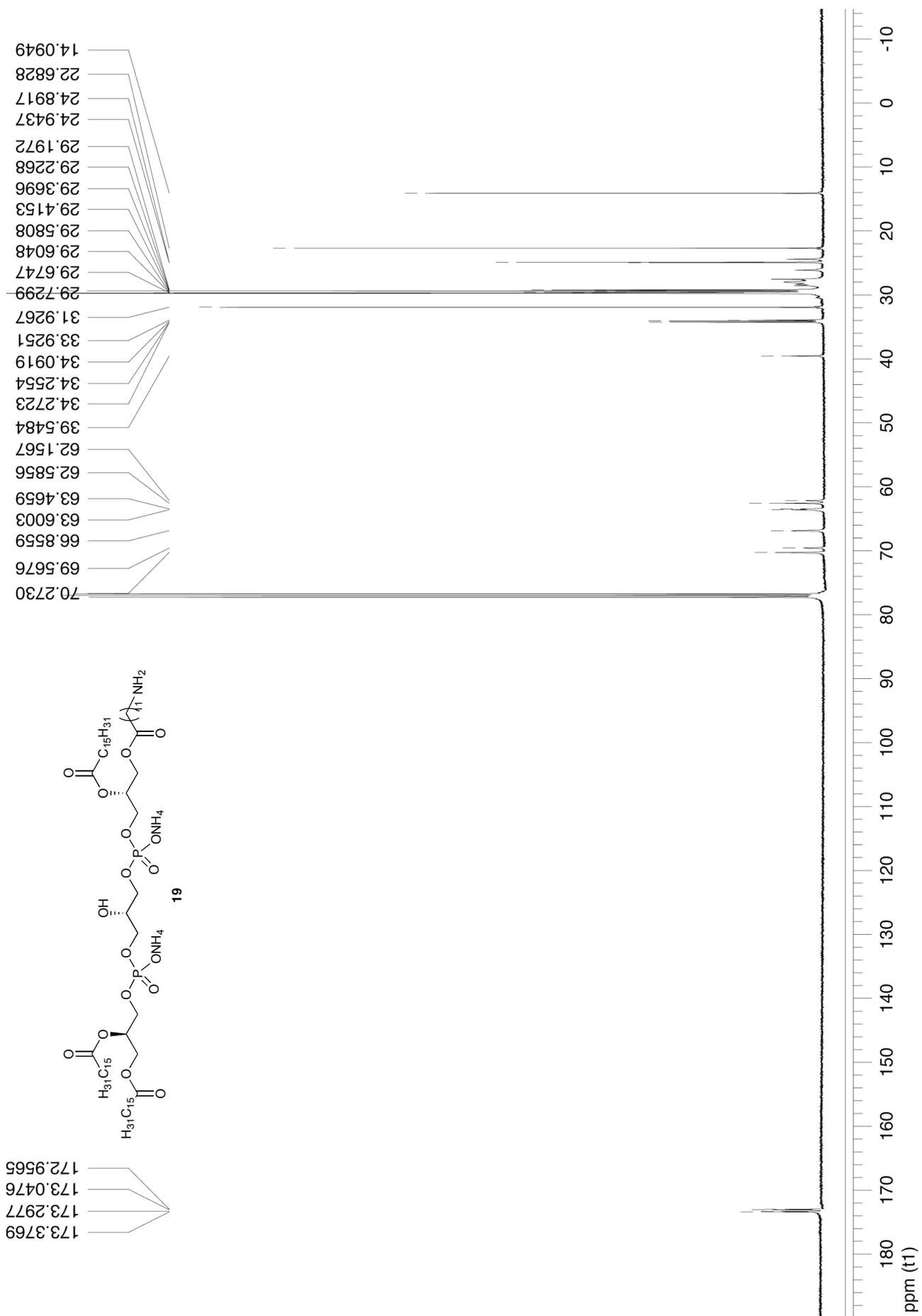


Figure ESI-16 125 MHz ¹³C NMR of **19** in CDCl₃

1.301
0.983

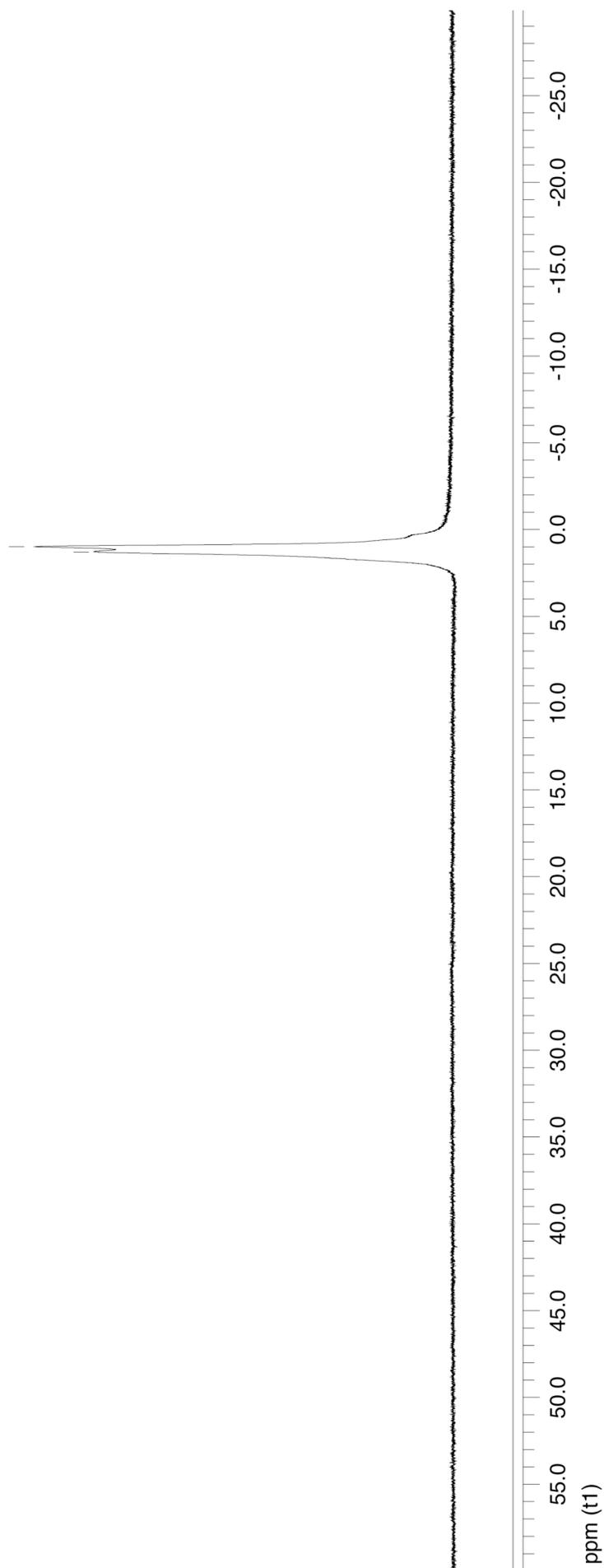
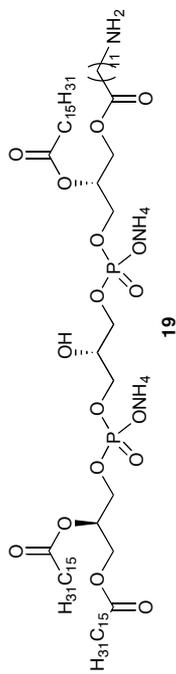


Figure ESI-17 202 MHz ³¹P NMR of **19** in CDCl₃

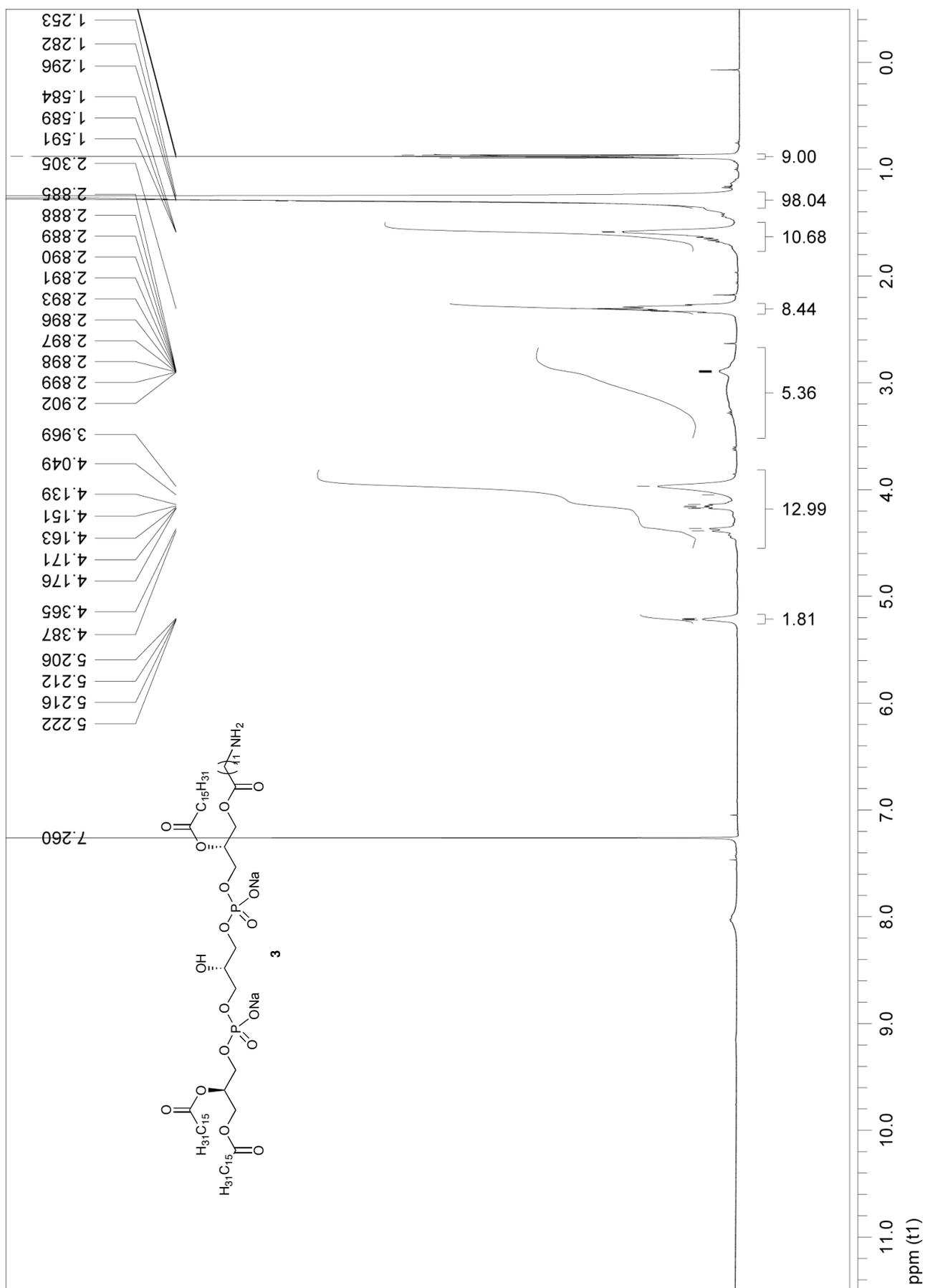
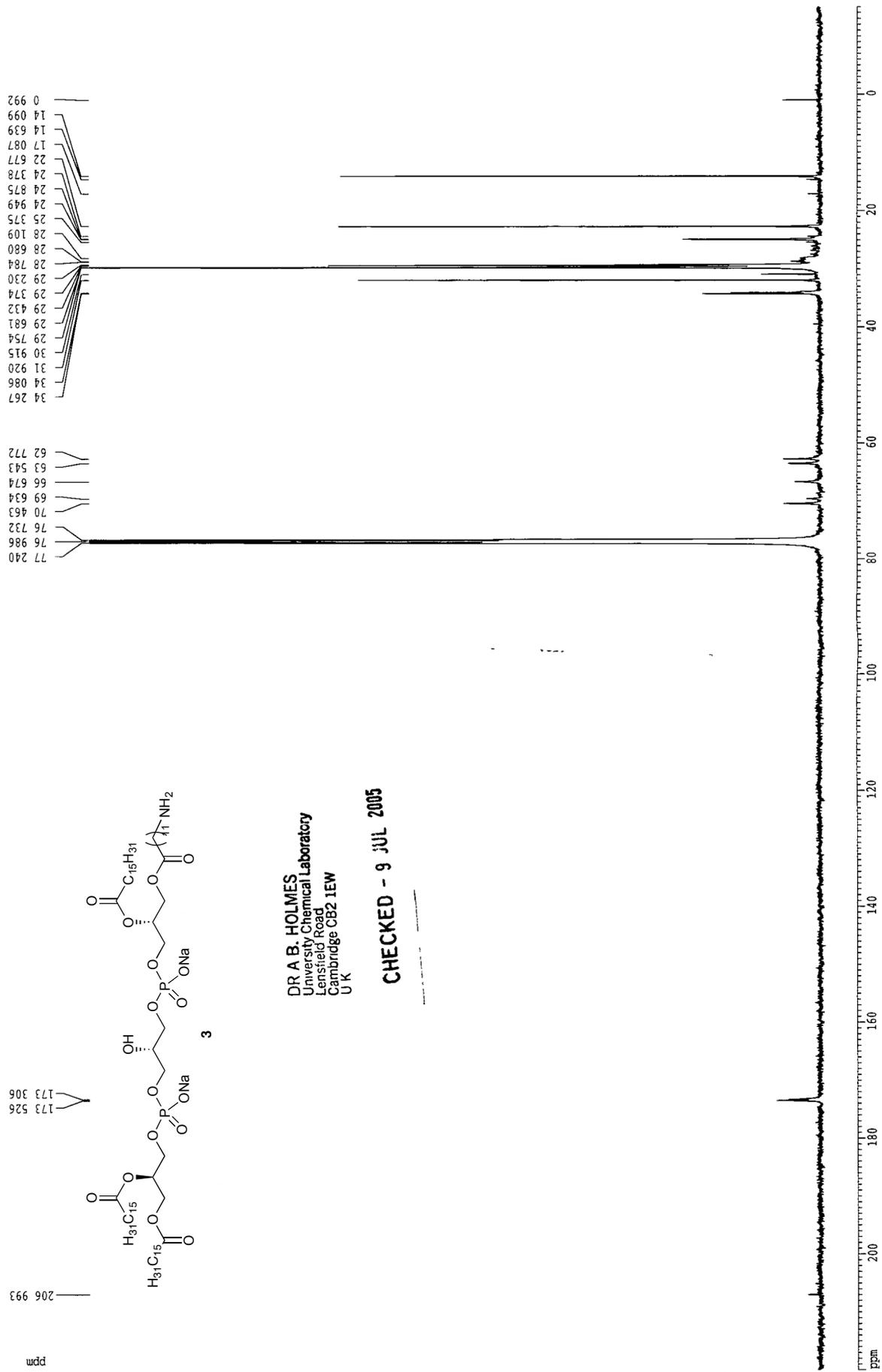


Figure ESI-18 500 MHz ¹H NMR of **3** in CDCl₃

CryoProbe 13C DRX500
MKJ-A-97B
M Johns - ABH



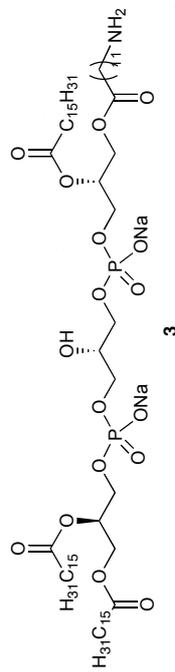
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Figure ESI-19 125 MHz ¹³C NMR of 3 in CDCl₃

Standard 116 D01500 31P
 Ref 16 0011 10304 at 0000 in CDCl3

Current Data Parameters
 Name: 160202
 Date_: 20050401
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 PULPROG: zgpg30
 F2 - Acquisition Parameters
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 Time: 14.50
 INSTRUM: AV500
 PULPROG: zgpg30
 F2 - Acquisition Parameters
 Date_: 20050401
 Time: 14.50
 INSTRUM: AV500
 PULPROG: zgpg30



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Figure ESI-20 202 MHz ³¹P NMR of 3 in CDCl₃

Channel 11 31P
 NUC1: 31P
 P1: 8.52 usec
 PL1: 0.00 dB
 SF01: 202.461460 MHz
 Channel 12
 NUC2: 1H
 P2: 65.00 usec
 PL2: 3.00 dB
 PL12: 13.00 dB
 PL13: 13.00 dB
 SF02: 500.262000 MHz
 Processing parameters
 SI: 32768
 SF: 202.461432 MHz
 Acq: 60.0000000 Hz
 SSB: EN
 LB: 1.00 Hz
 GB: 0
 PC: 1.40
 10 NMR plot parameters
 CX: 27.00 cm
 F1: 10.00 cm
 F2: 20.00 cm
 F3: 50.00 cm
 F4: 50.00 cm
 F5: 50.00 cm
 F6: 50.00 cm
 F7: 50.00 cm
 F8: 50.00 cm
 F9: 50.00 cm
 F10: 50.00 cm
 F11: 50.00 cm
 F12: 50.00 cm
 F13: 50.00 cm
 F14: 50.00 cm
 F15: 50.00 cm
 F16: 50.00 cm
 F17: 50.00 cm
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 F22: 50.00 cm
 F23: 50.00 cm
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 F25: 50.00 cm
 F26: 50.00 cm
 F27: 50.00 cm
 F28: 50.00 cm
 F29: 50.00 cm
 F30: 50.00 cm
 F31: 50.00 cm
 F32: 50.00 cm
 F33: 50.00 cm
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 F35: 50.00 cm
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 F96: 50.00 cm
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 F100: 50.00 cm

