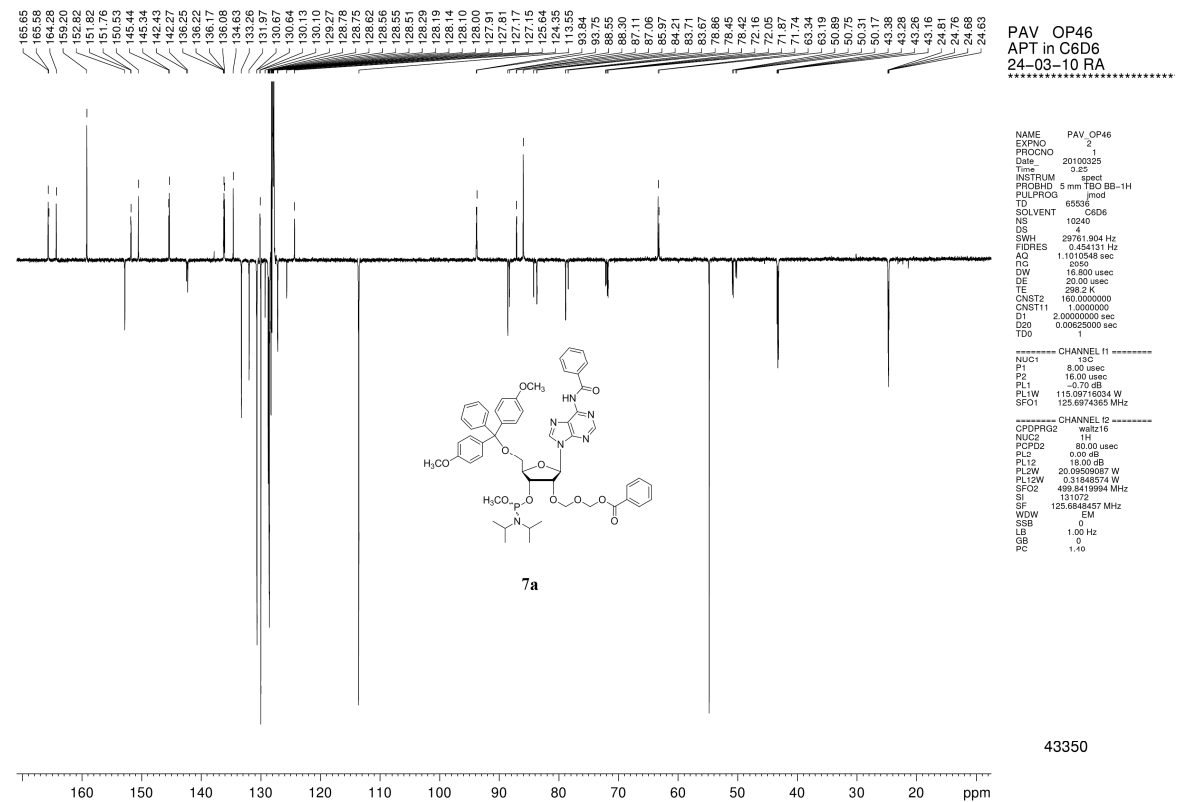
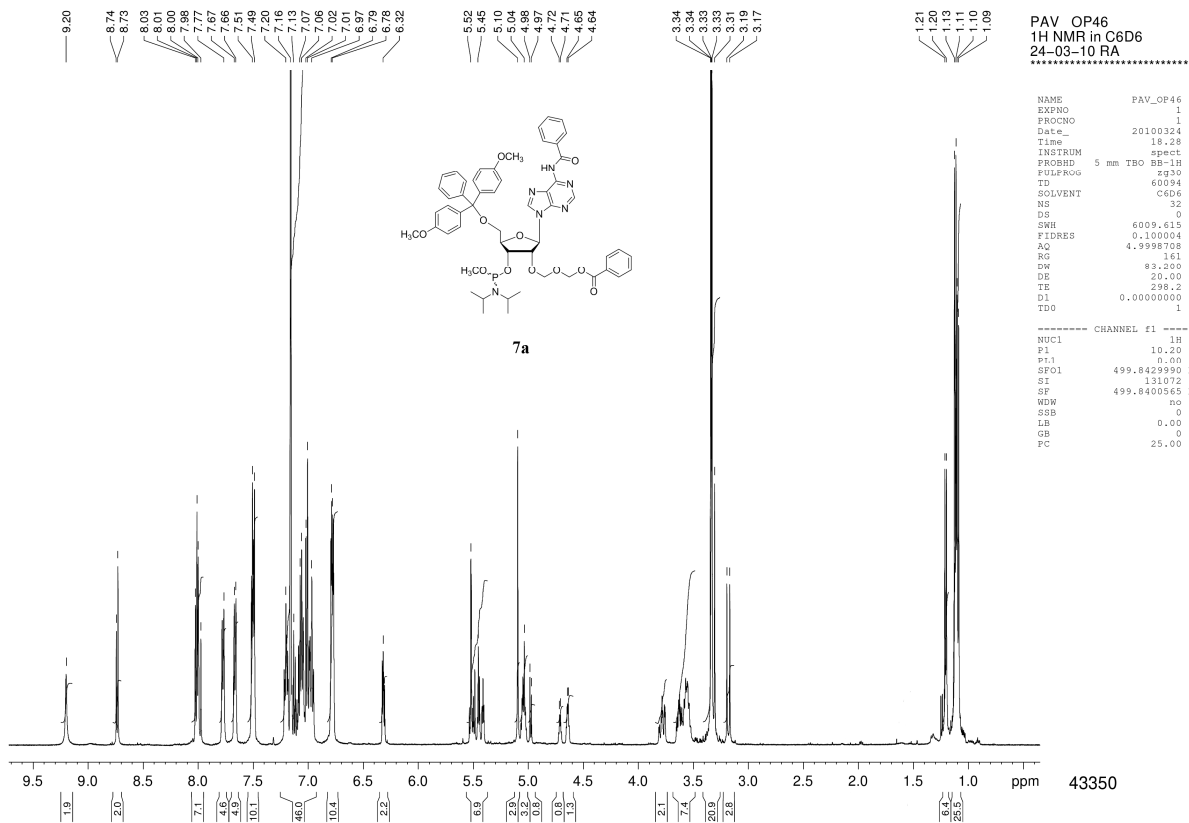
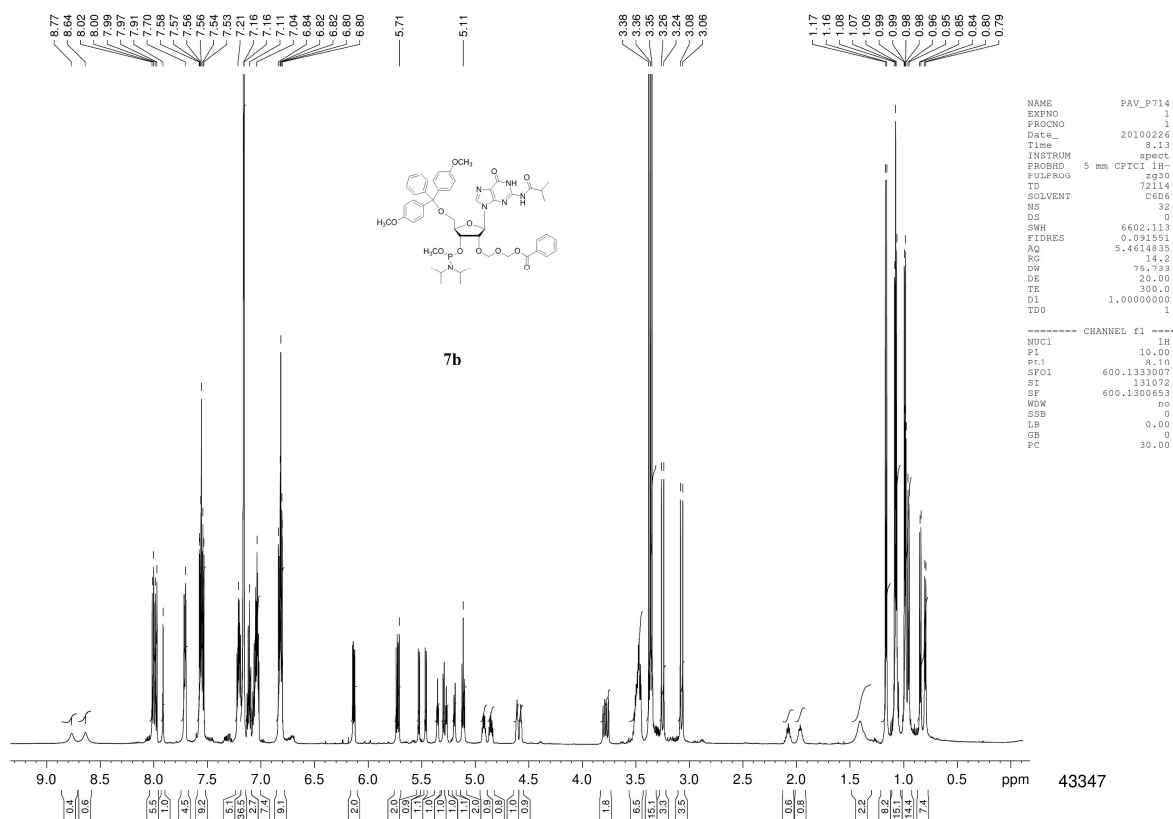
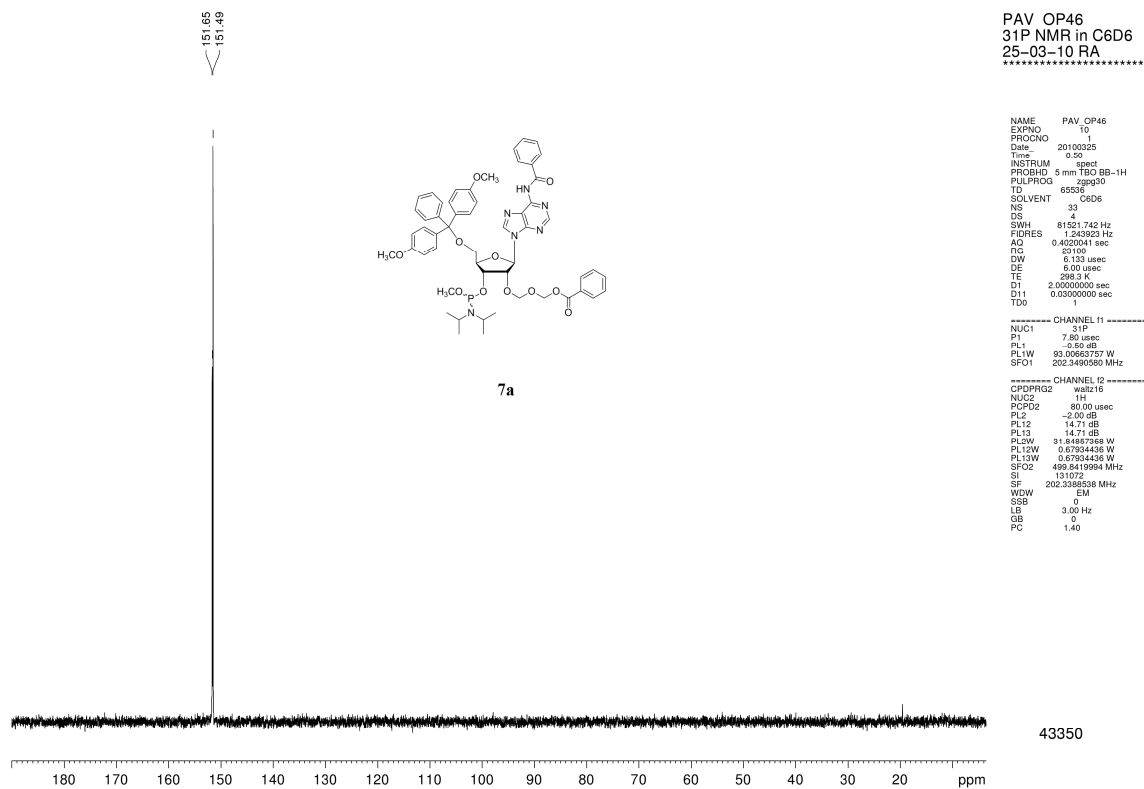
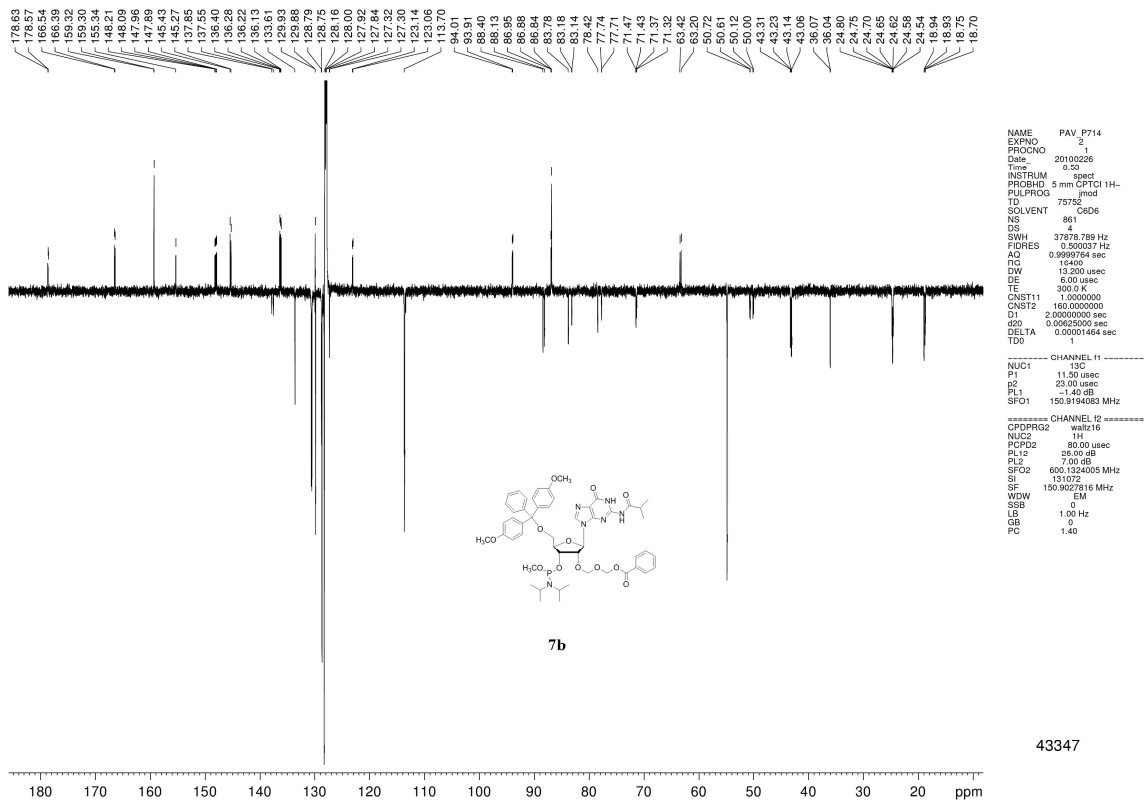
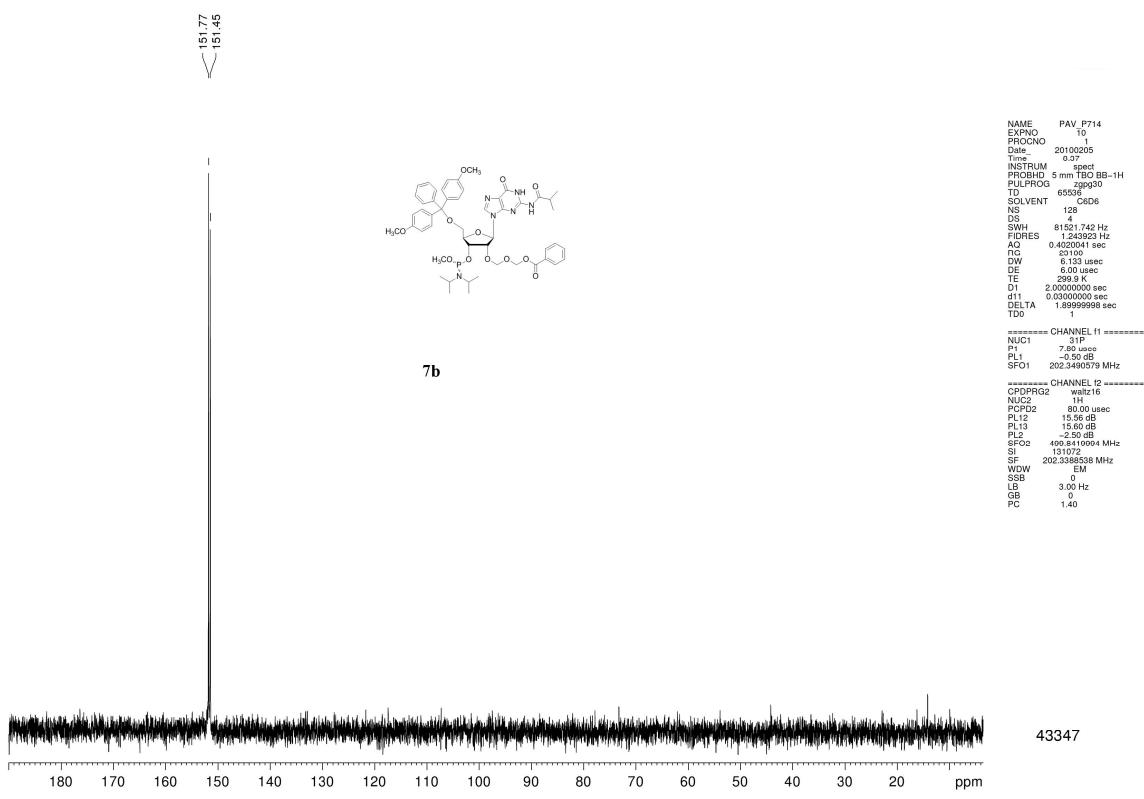




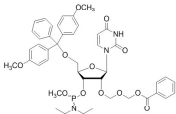




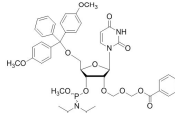
43347



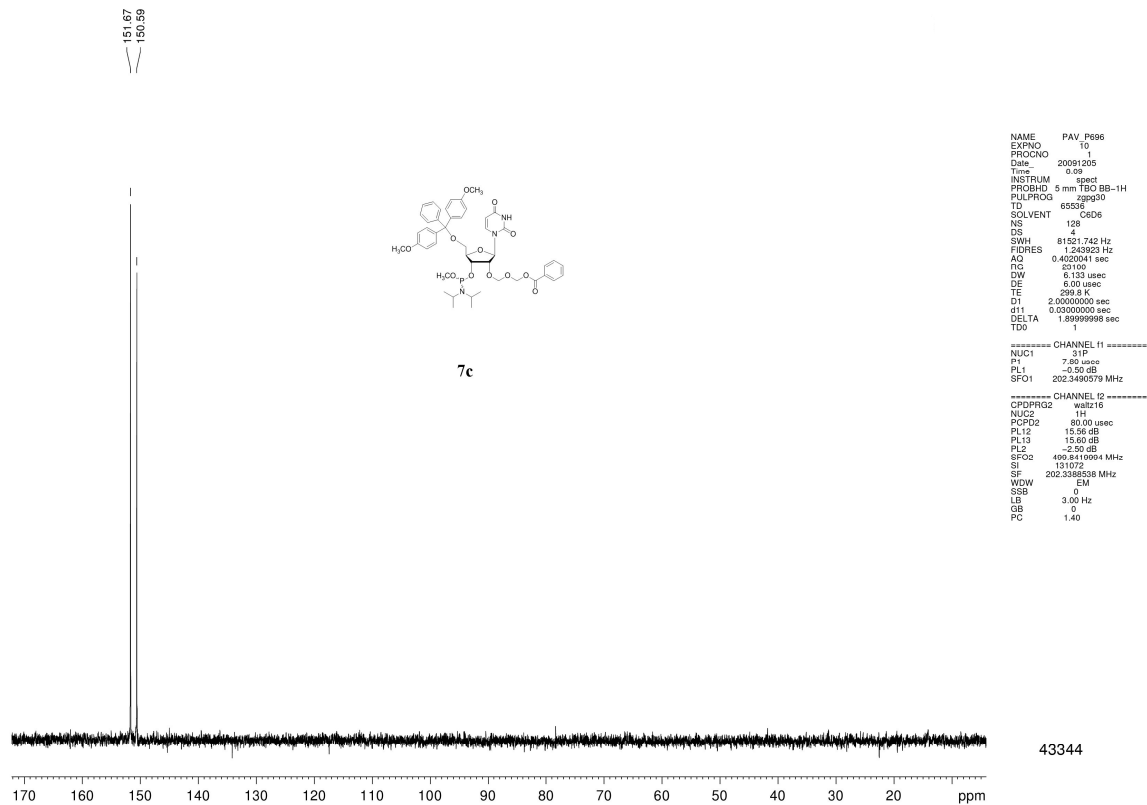
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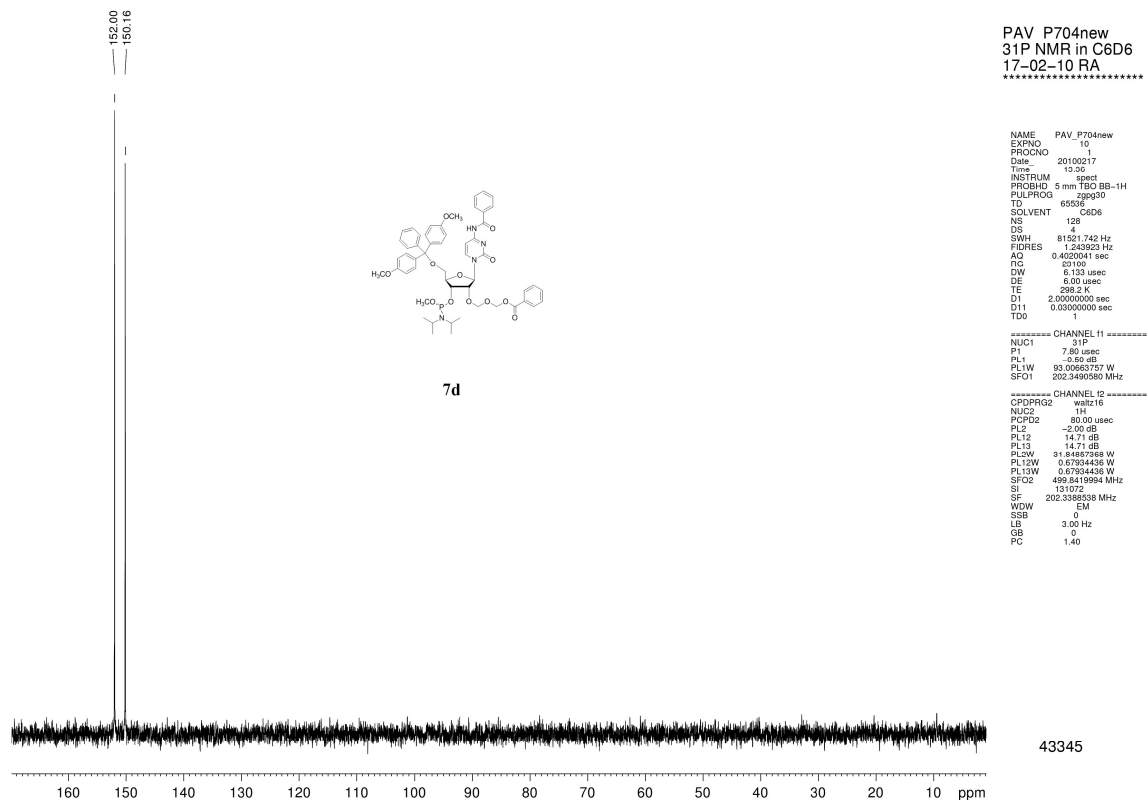
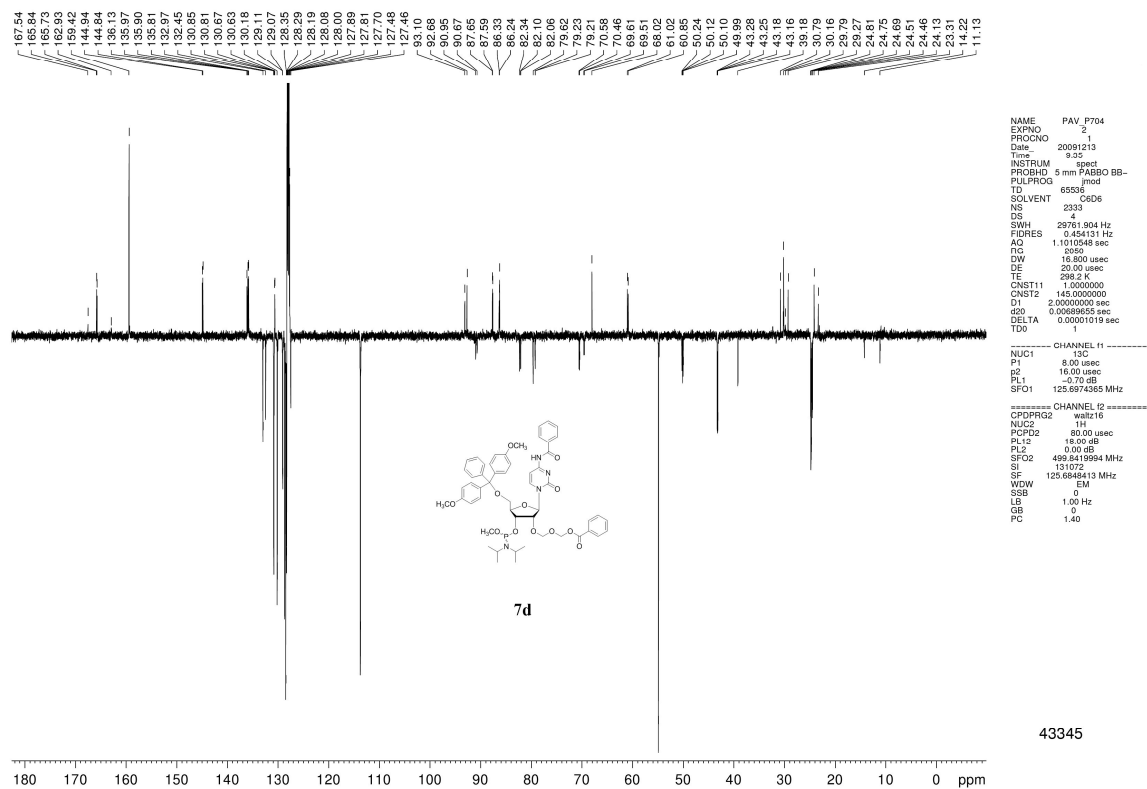


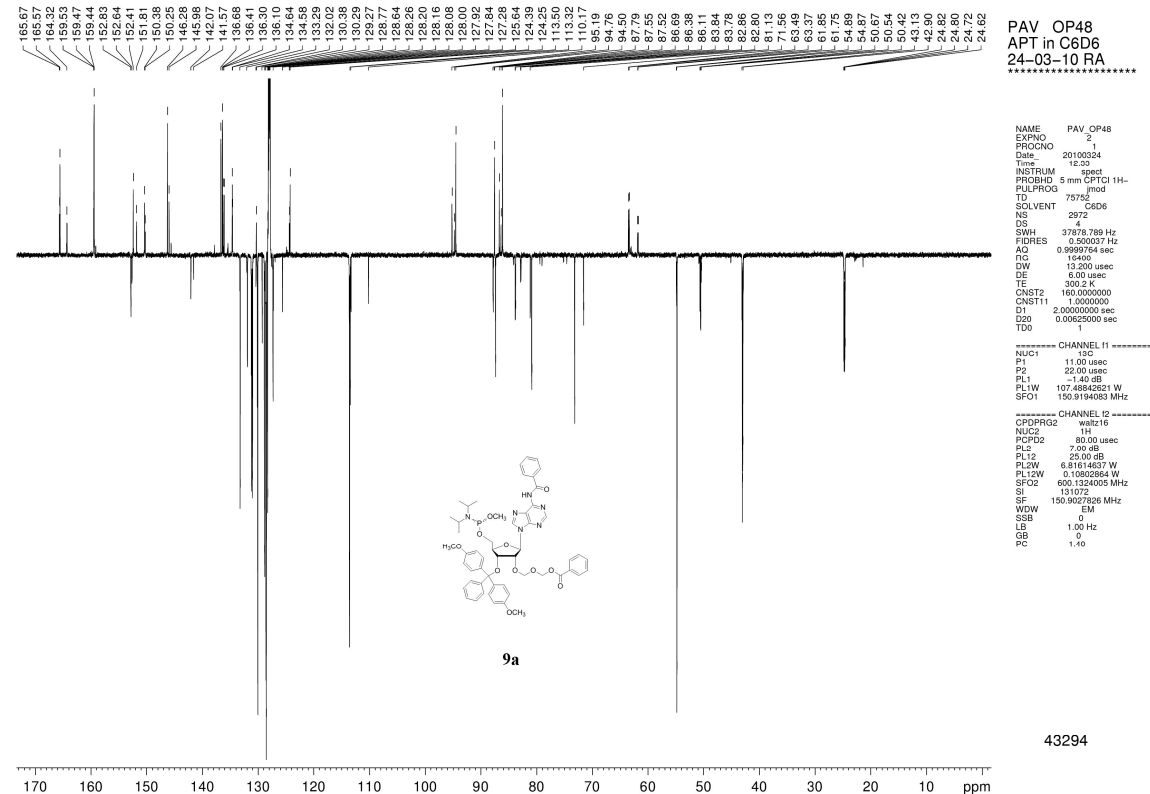
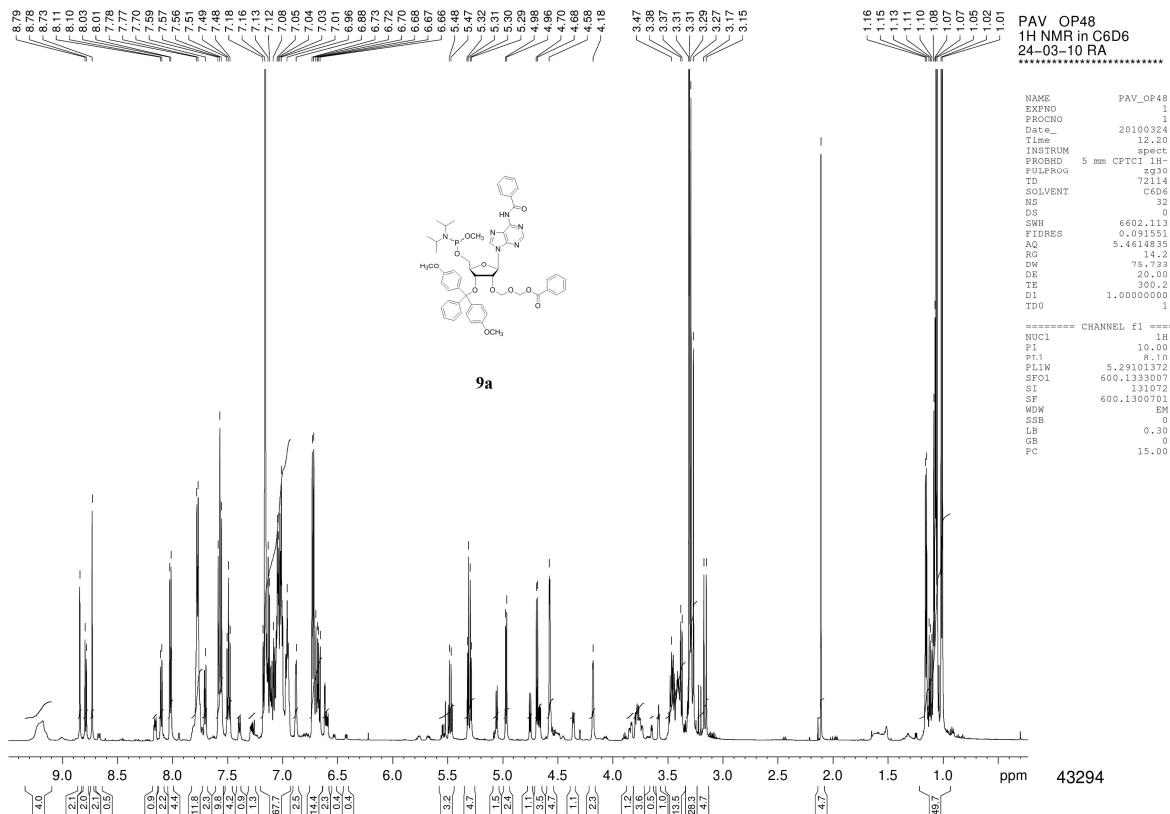
7c

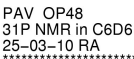


7c









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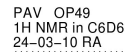
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EXPNO         10
PROCNO        10
Date_         20100325
Time          0.
INSTRUM       spect
PROBHD5       5 mm TBO BB-1H
PULPROG       zgpg30
TD            65536
SFO           299.13
AQ            30
RG            30
NS            15
DS            4
SWH           81521.742 Hz
FIDRES        0.4032011 sec
AQRES         1.23490
RGRES         1.0
WDW            EM
SSB            0.00 usec
DE            6.00 usec
TE            298.2 K
D1            2.00000000 sec
D11           0.03000000 sec
D10           0.03000000 sec

===== CHANNEL 11 =====
NUC1           13
PUL1           -31P
PL1W          93.06667575 W
PL1           10.23333333 MHz

===== CHANNEL 2 =====
CPCPRG2       waltz16
NUC2           13
PUL2           80.00 usec
PL2            -2.00 dB
PL12           1.41 MHz
PL12W          31.0674438 W
PL12W          0.67934438 W
PL13W          0.67934438 W
PL13W          499.999999 MHz
SSB            0.00 usec
TE            313.072 K
D2            202.50000000 sec
WDW            EM
GB            3.00
LB            3.00 Hz
PC            4.00

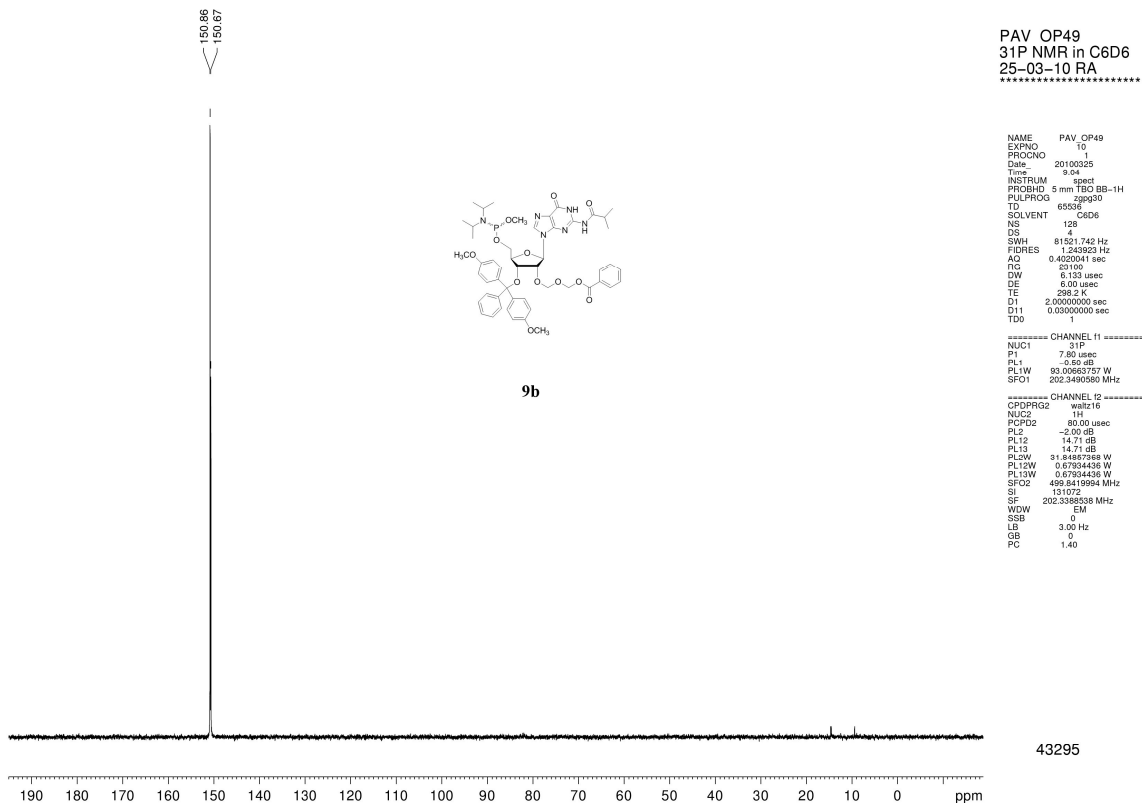
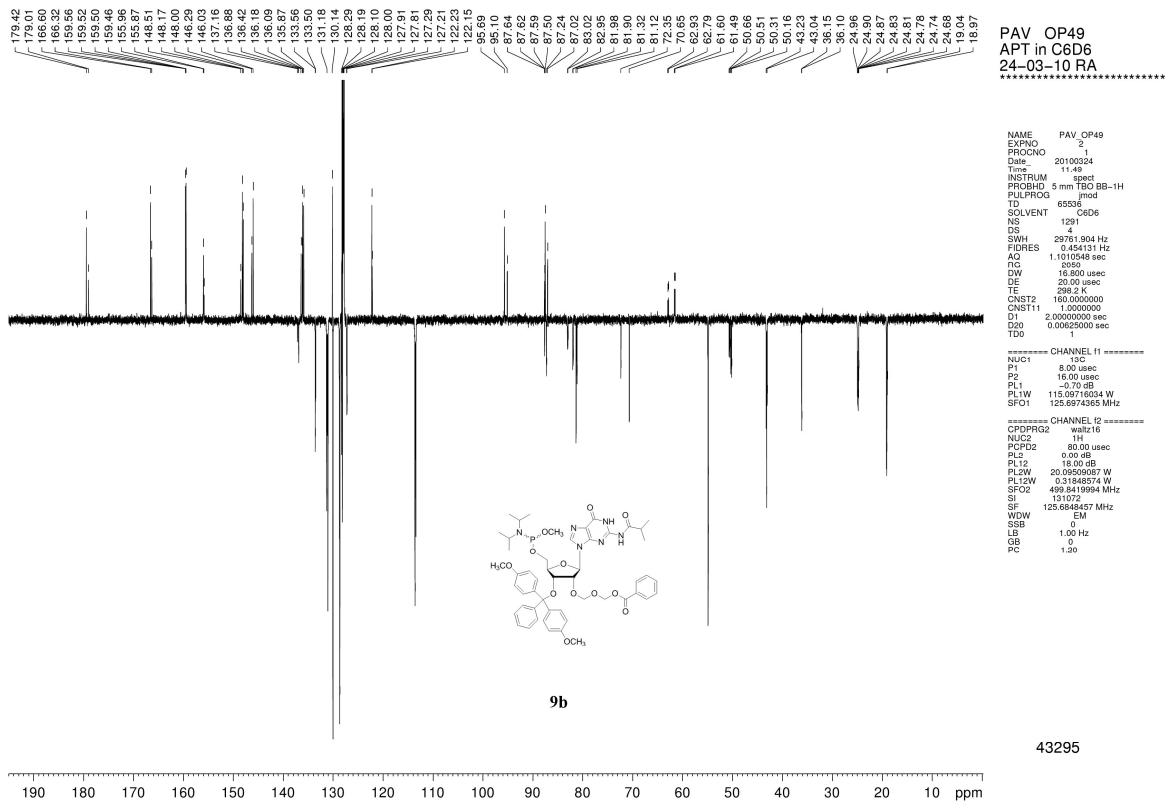
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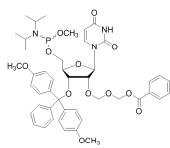
43294



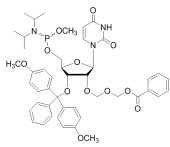
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EXPNO	1
PROCNO	1
Date_	20100324
Time	10.58
INSTRUM	spect
PROBHD	5 mm TBO
PULPROG	zg30
TD	60094
RG	C606
NS	32
DW	6009.615
FIDRES	0.100004
AQ	4.9998708
RG	90.5
DW	83.200
DE	20.00
TE	298.2
DELTA	0.00000000
TD0	1
----- CHANNEL f1 -----	
NUC1	1H
P1	10.20
P2	10.10
SFO1	499.8429990
SF	131072
SF	499.8400565
WDW	no
SSB	0
LB	0.00
GB	0.00
PC	20.00

43295

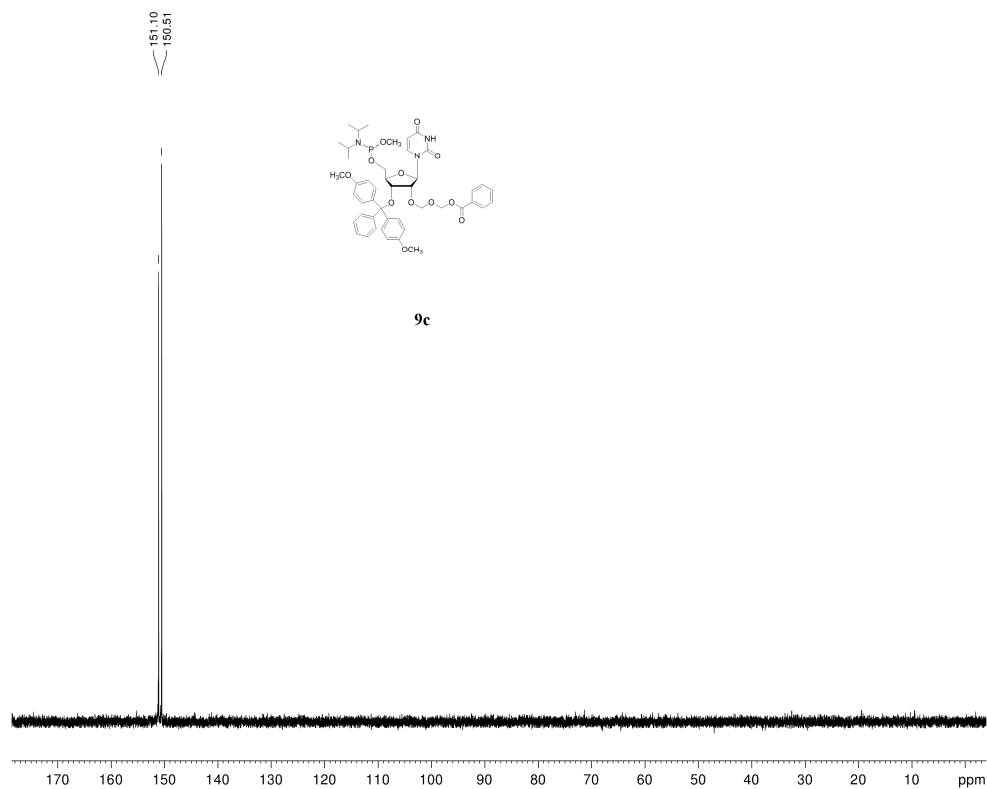




9c



9c

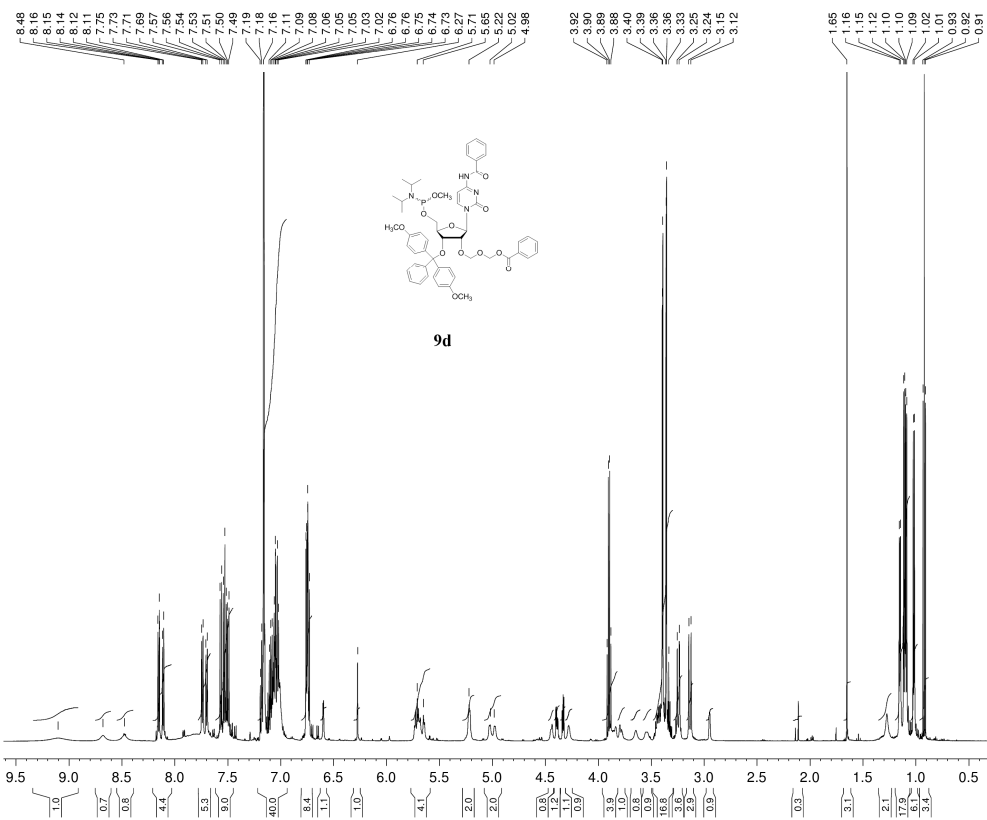


KOSIOVA IK429
31P NMR in C6D6
25-03-10 RA

NAME KOSIOVA IK429
EXPNO 10
PROCNO 1
Date_ 20100325
Time 10.07
INSTRUM spect
PROBHD 5 mm TBO B9-1H
PULPROG zgpg30
ID 65566
SOLVENT C6D6
NS 126
DS 4
SWH 81321.742 Hz
FIDRES 1.243923 Hz
AQ 0.4020041 sec
RG 32109
RG 32109
DW 6.133 usec
DE 6.00 usec
TE 298.2 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0

----- CHANNEL f1 -----
NUC1 31P
P1 7.80 usec
PL1 -0.60 dB
PL1W 93.00863757 W
SFO1 202.3490580 MHz

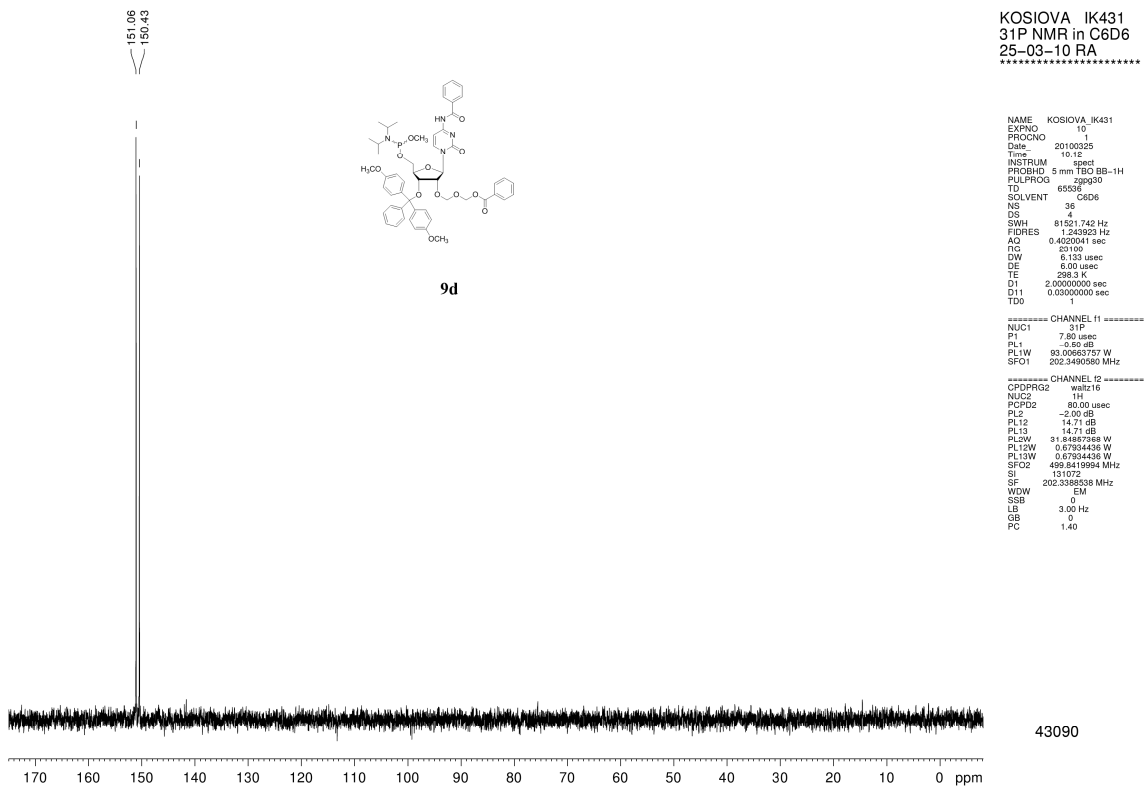
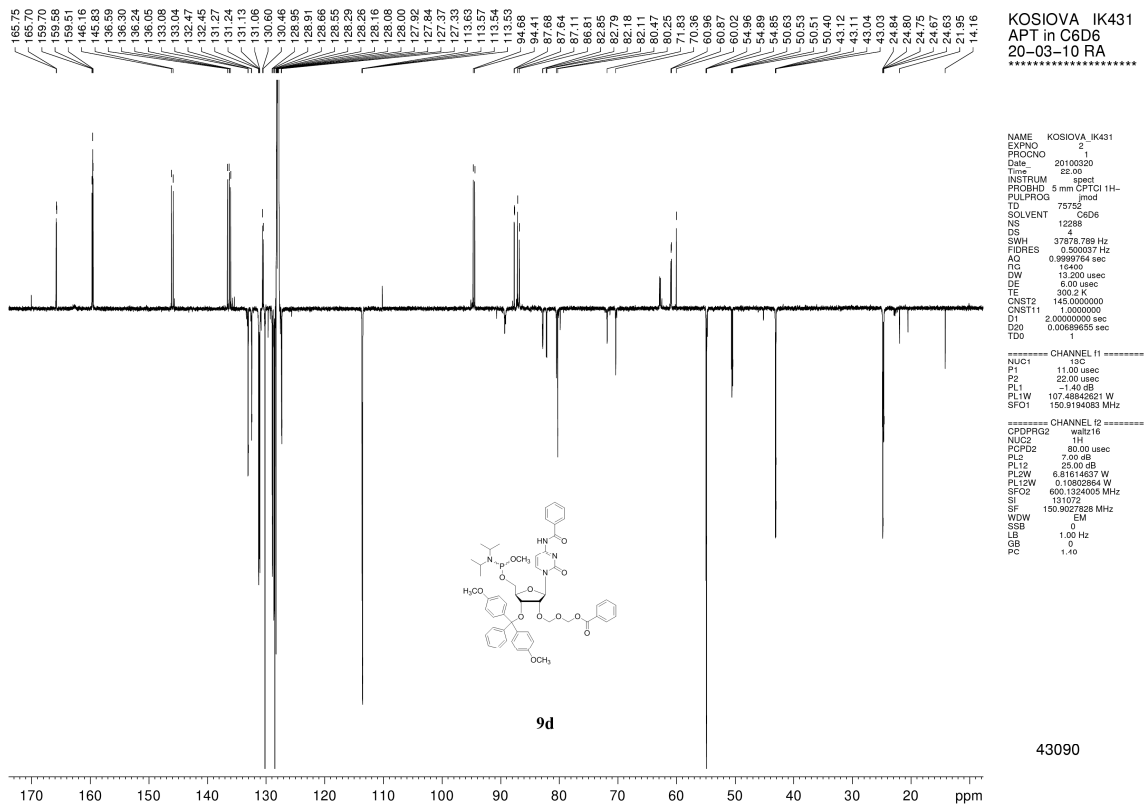
----- CHANNEL f2 -----
CPDPRG2 waiz16
NUC2 1H
PCPD2 80.00 usec
PL2 -2.00 dB
PL2 14.71 dB
PL3 14.71 dB
PL3W 31.84887268 W
PL3W 0.67934436 W
PL3W 0.67934436 W
SFO2 499.9419994 MHz
SI 131072
SF 202.3386338 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

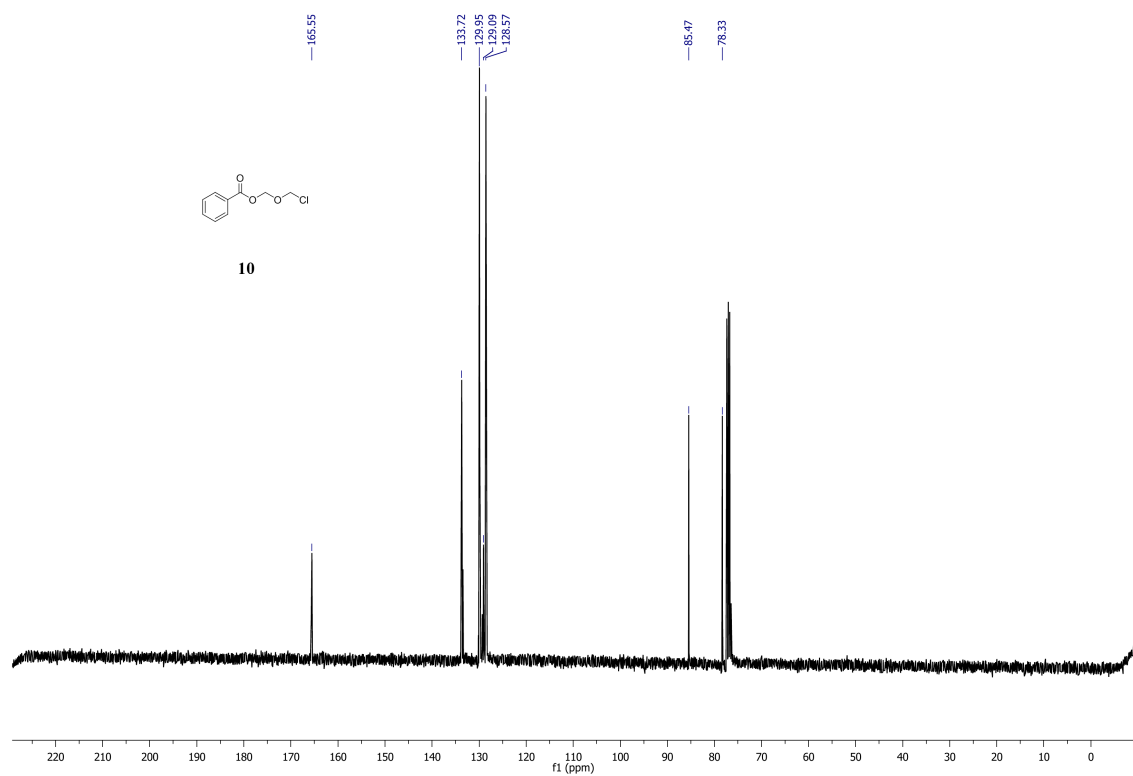
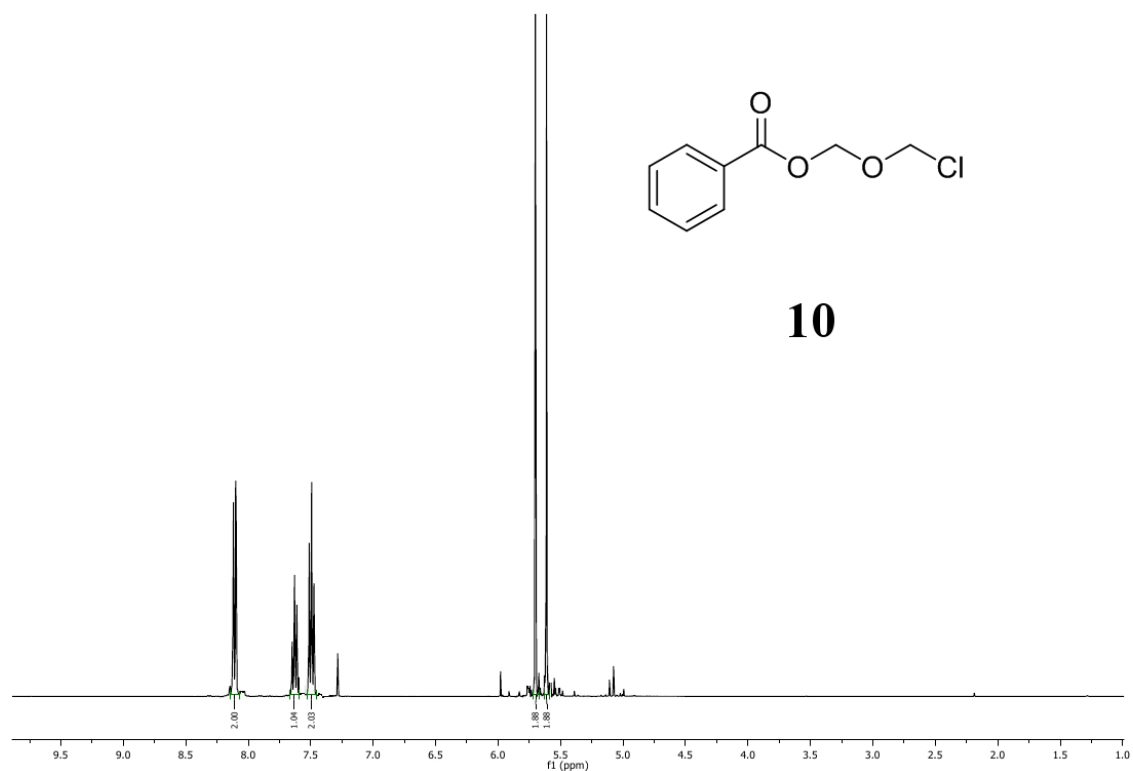


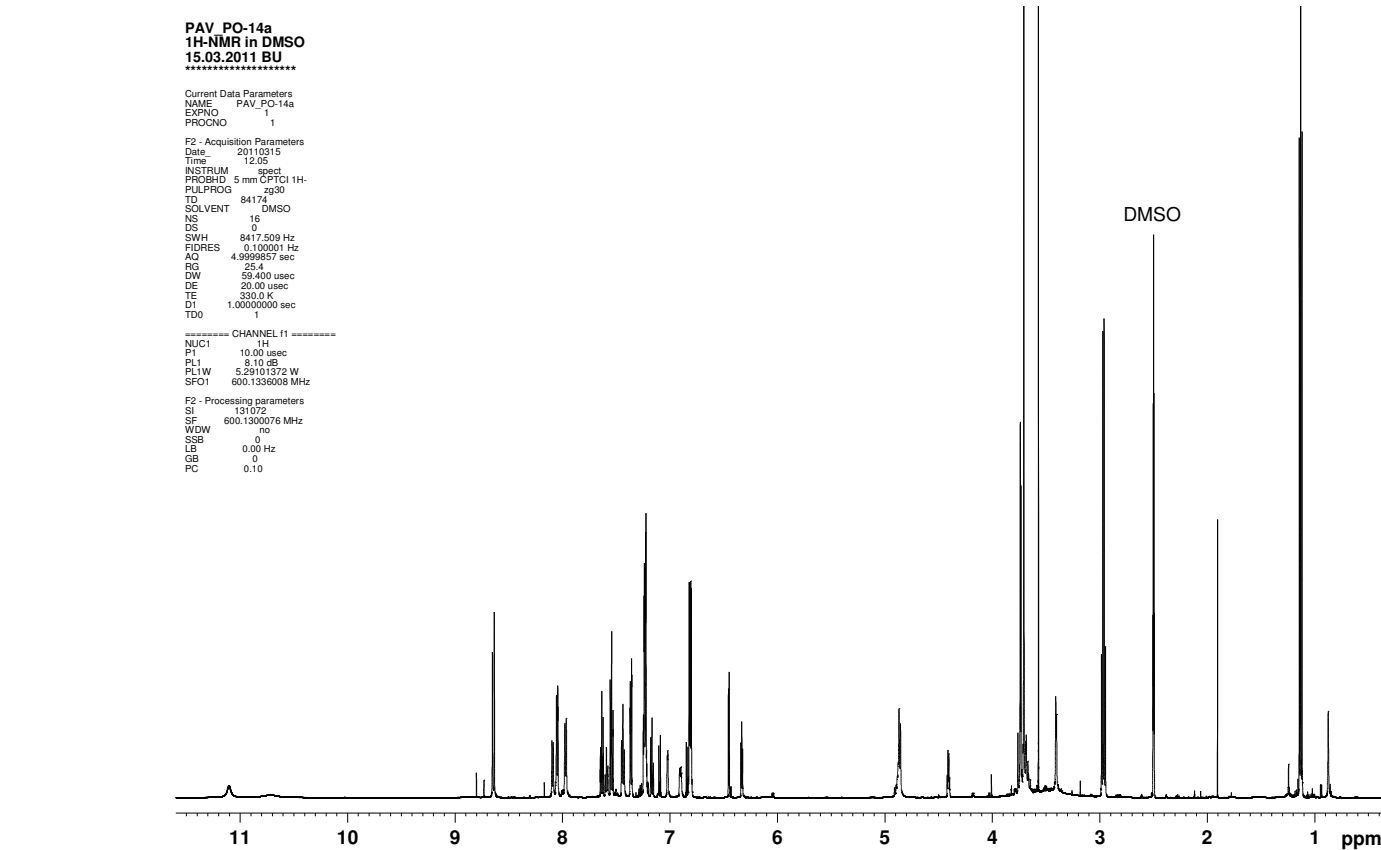
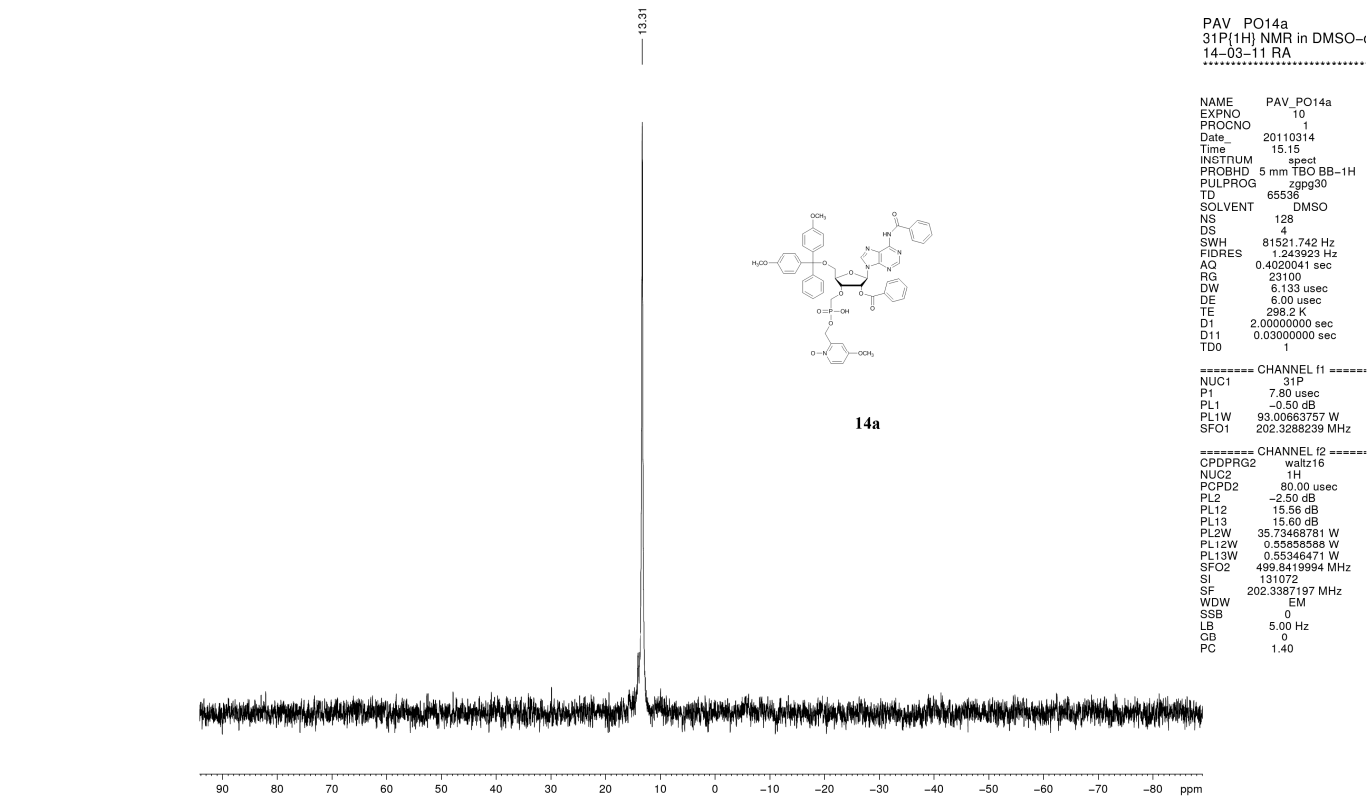
KOSIOVA IK431
1H NMR in C6D6
20-03-10 RA

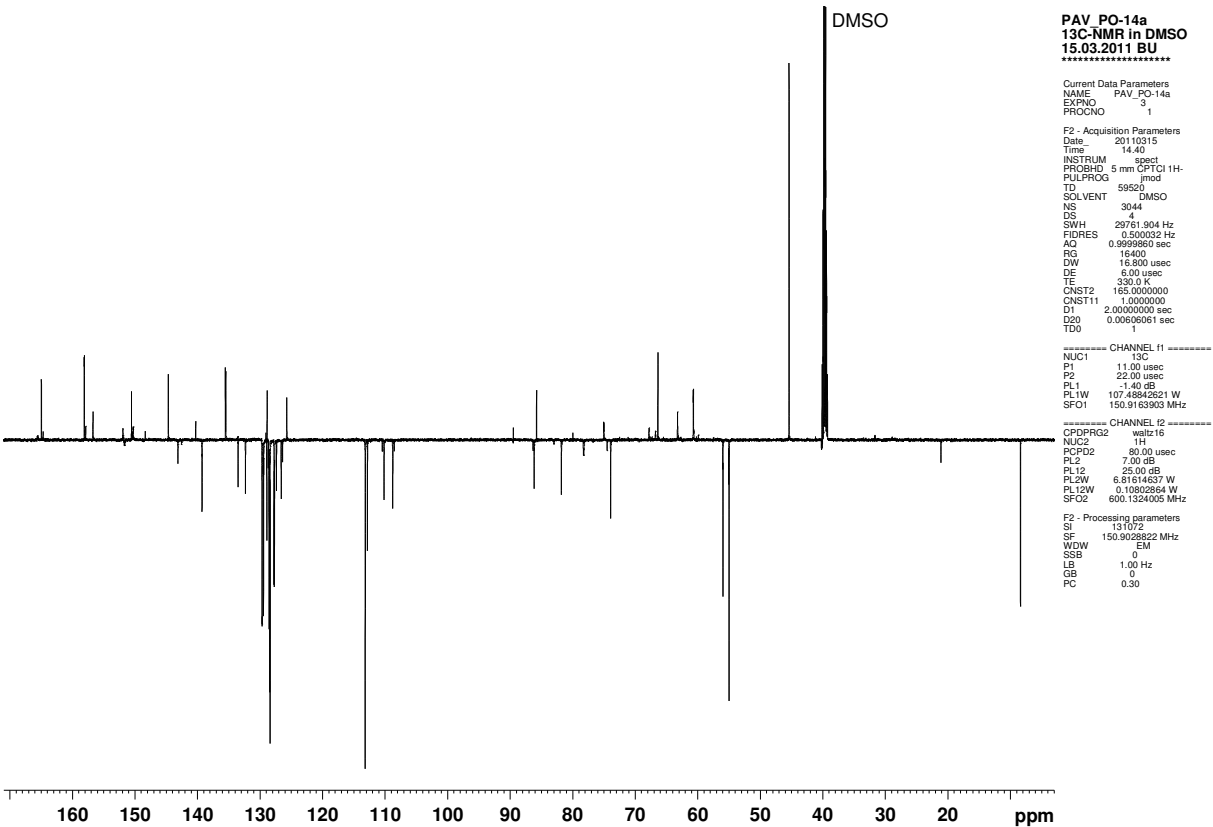
NAME KOSIOVA IK431
EXPNO 1
PROCNO 1
Date_ 20100320
Time 11.41
INSTRUM spect
PROBHD 5 mm CPTCI 1H-
PULPROG zgpg30
ID 72114
SOLVENT C6D6
NS 32
DS 0
SWH 6602.113
FIDRES 0.091551
AQ 5.4614835
RG 14.2
RG 76.733
DE 20.00
TE 300.2
D1 1.00000000 sec
TD0 1

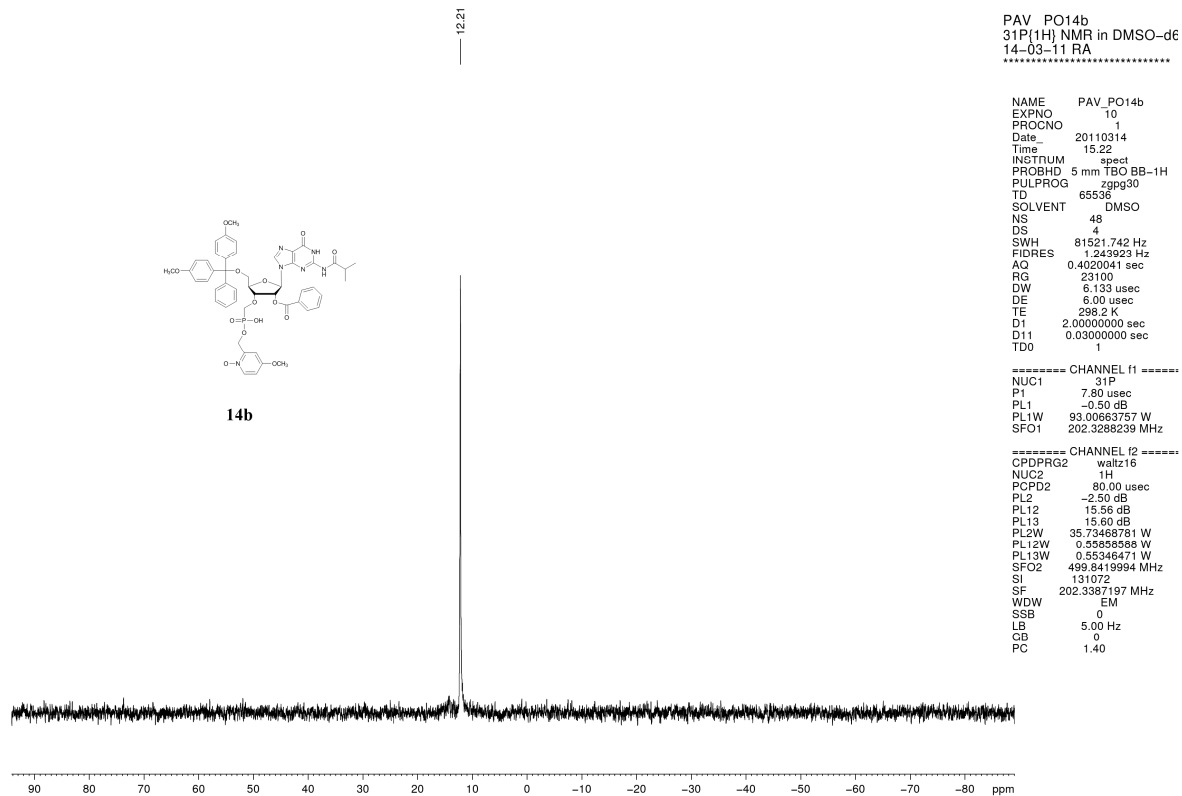
----- CHANNEL f1 -----
NUC1 1H
P1 10.00
PL1 0.10
PL1W 5.29101372
SFO1 600.1323007
SI 131072
SF 600.1300699
WDW no
SSB 0
LB 0.00
GB 0
PC 20.00











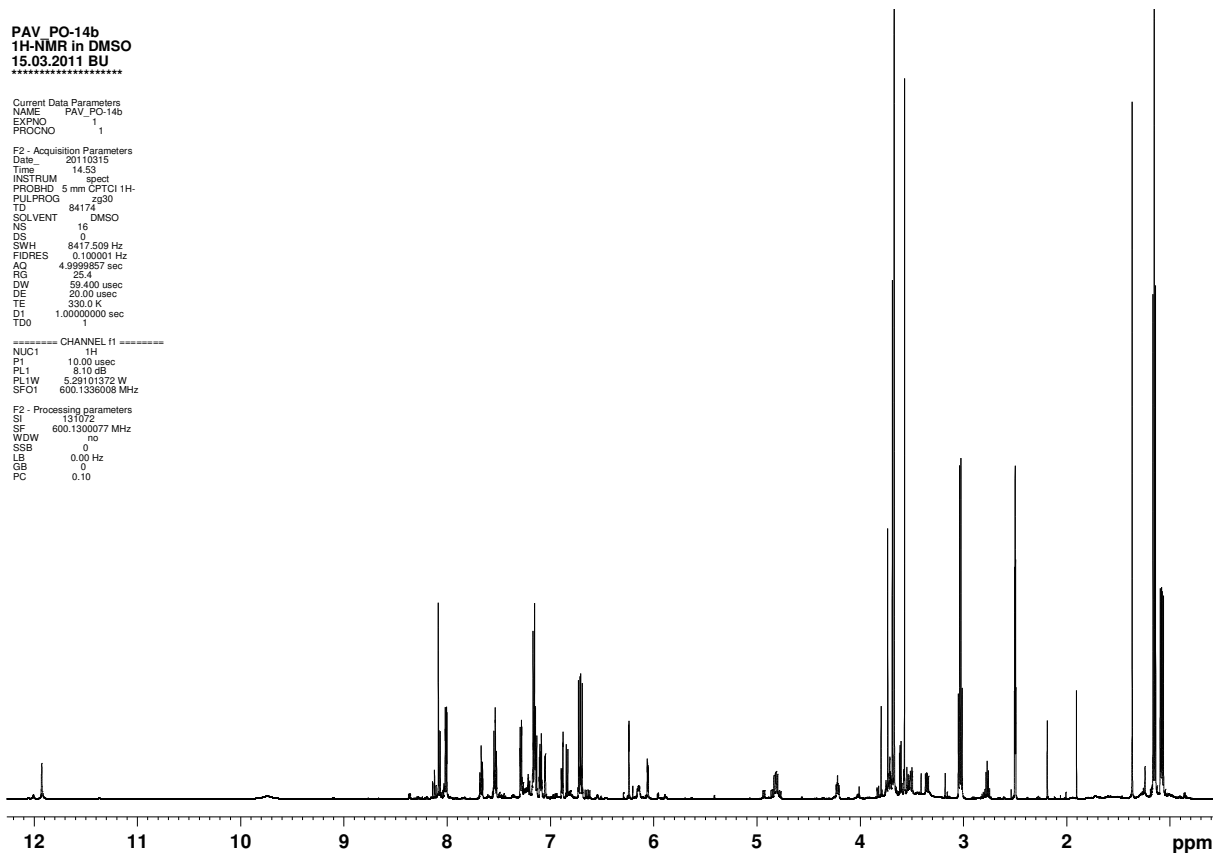
PAV_PO-14b
1H-NMR in DMSO
15.03.2011 BU

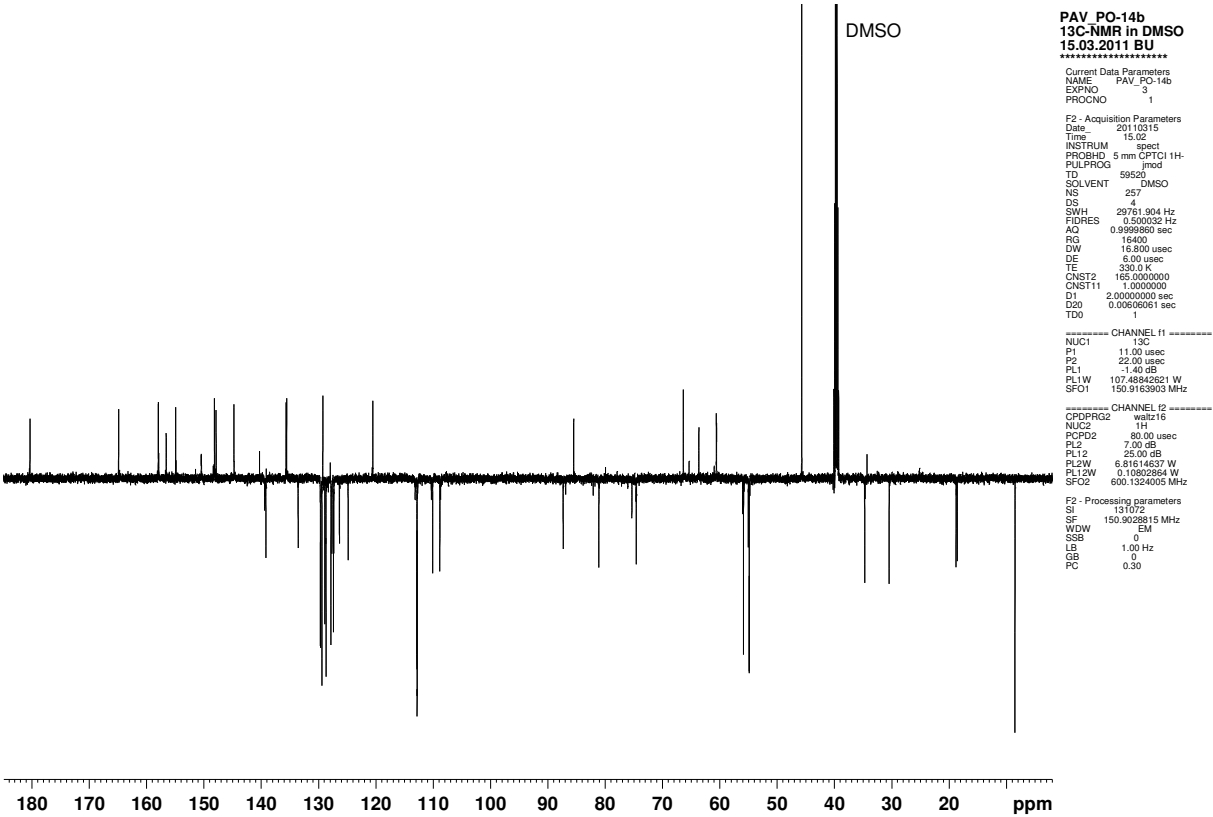
Current Data Parameters
NAME PAV_PO-14b
EXPNO 1
PROCNO 1

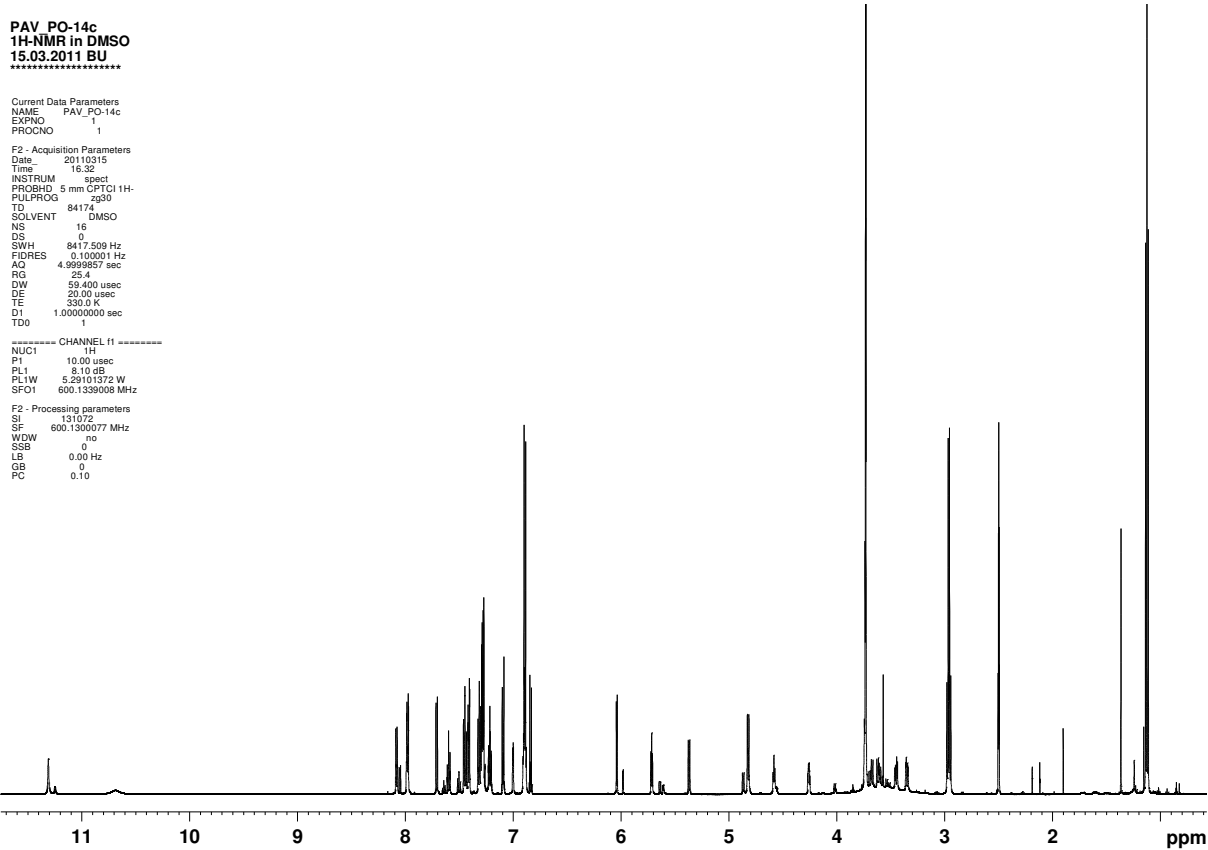
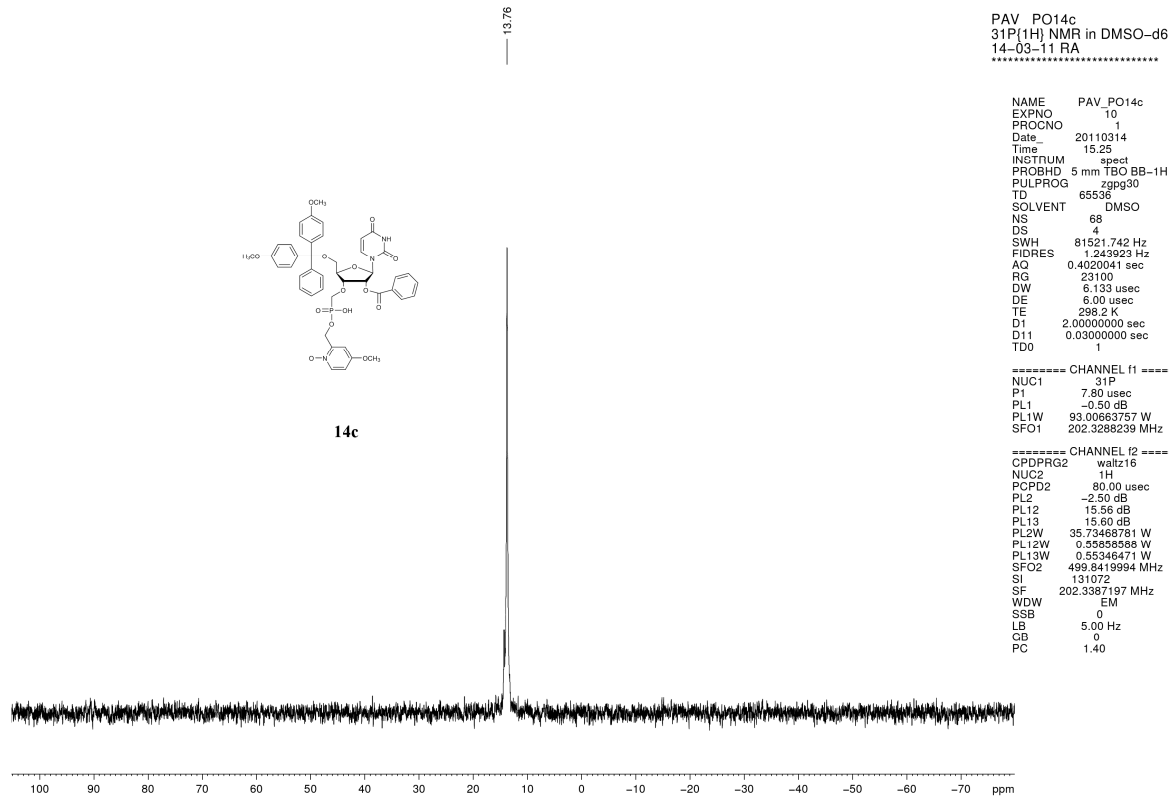
F2 - Acquisition Parameters
Date_ 20110315
Time 14.53
INSTRUM spect
PROBHD 5 mm CPTCI 1H-
PULPROG zg30
TD 84174
SOLVENT DMSO
NS 16
DS 0
SWH 8417.509 Hz
FIDRES 0.100001 Hz
AQ 4.9999857 sec
RG 25.4
DW 59.400 usec
DE 20.00 usec
TE 330.0 K
D1 1.00000000 sec
TD0 1

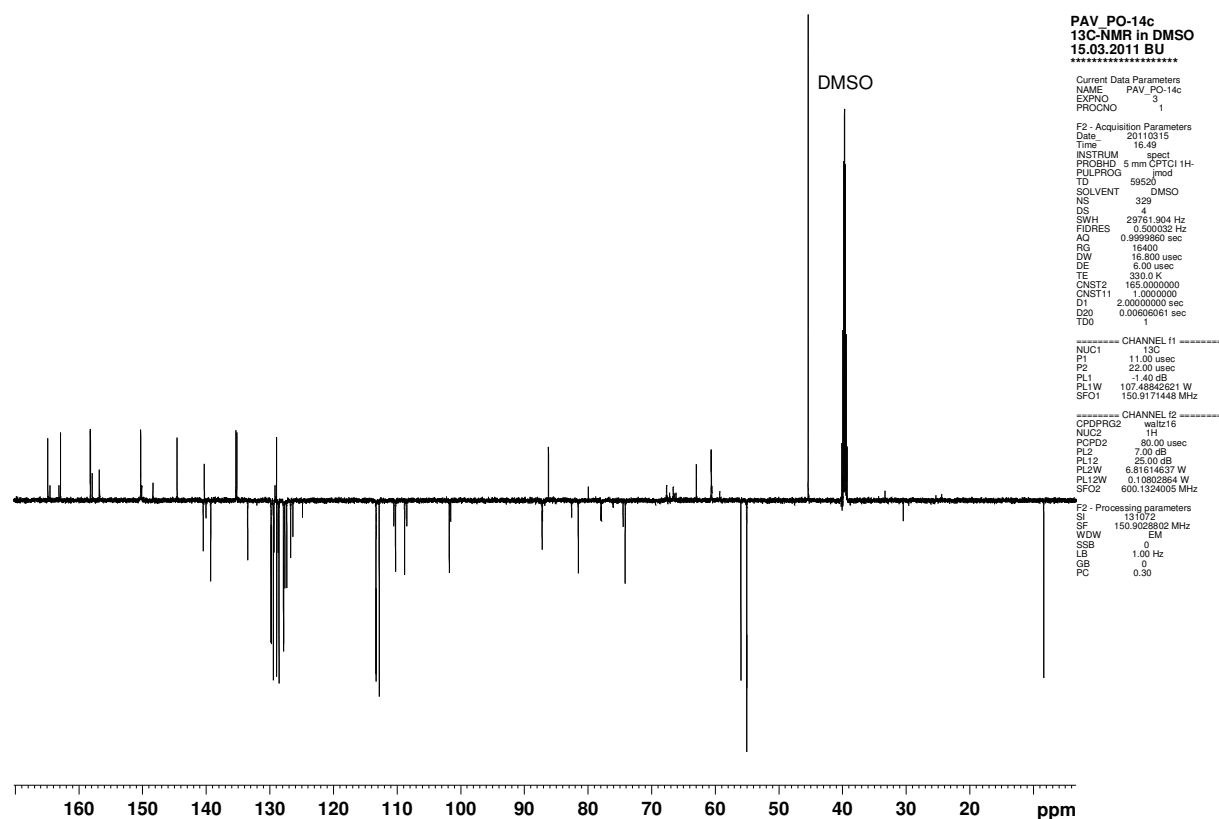
===== CHANNEL f1 =====
NUC1 1H
P1 10.00 usec
PL1 8.10 dB
PL1W 5.29101372 W
SFO1 600.1336008 MHz

F2 - Processing parameters
SI 131072
SF 600.1300077 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 0.10

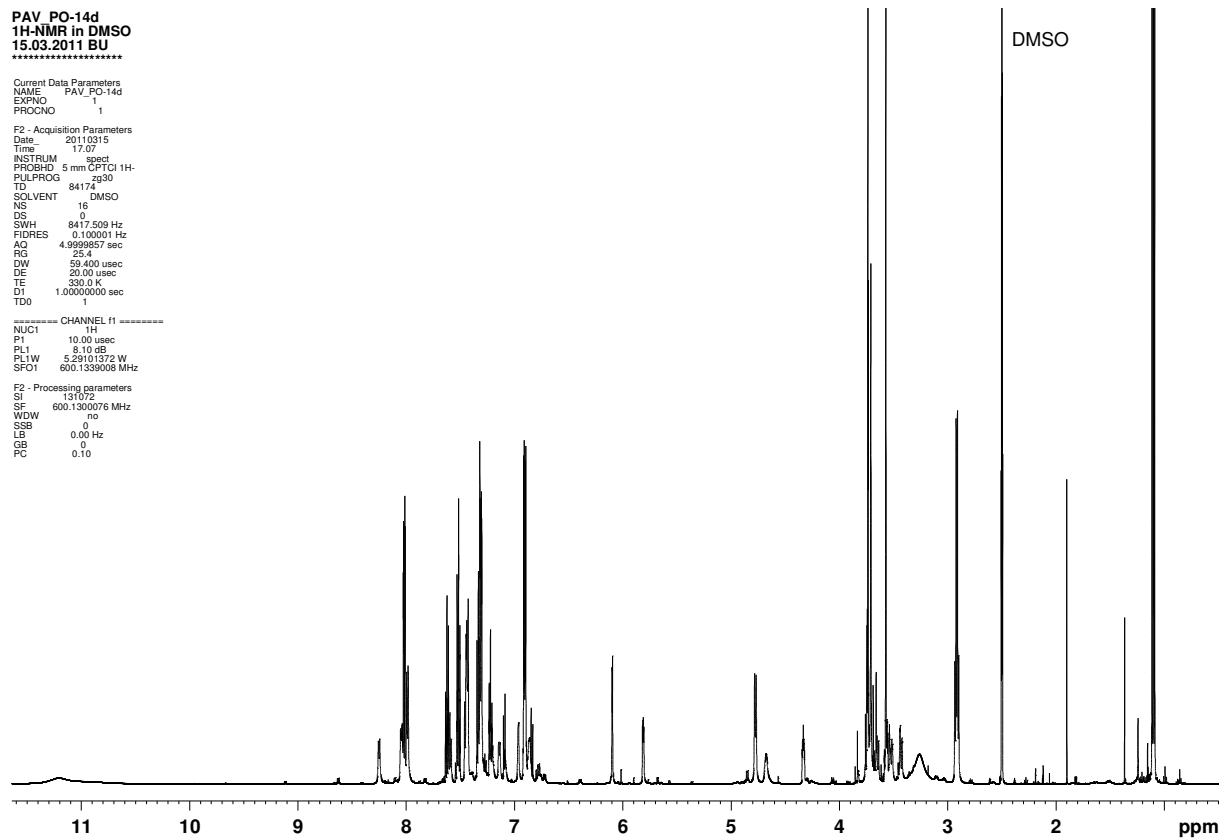
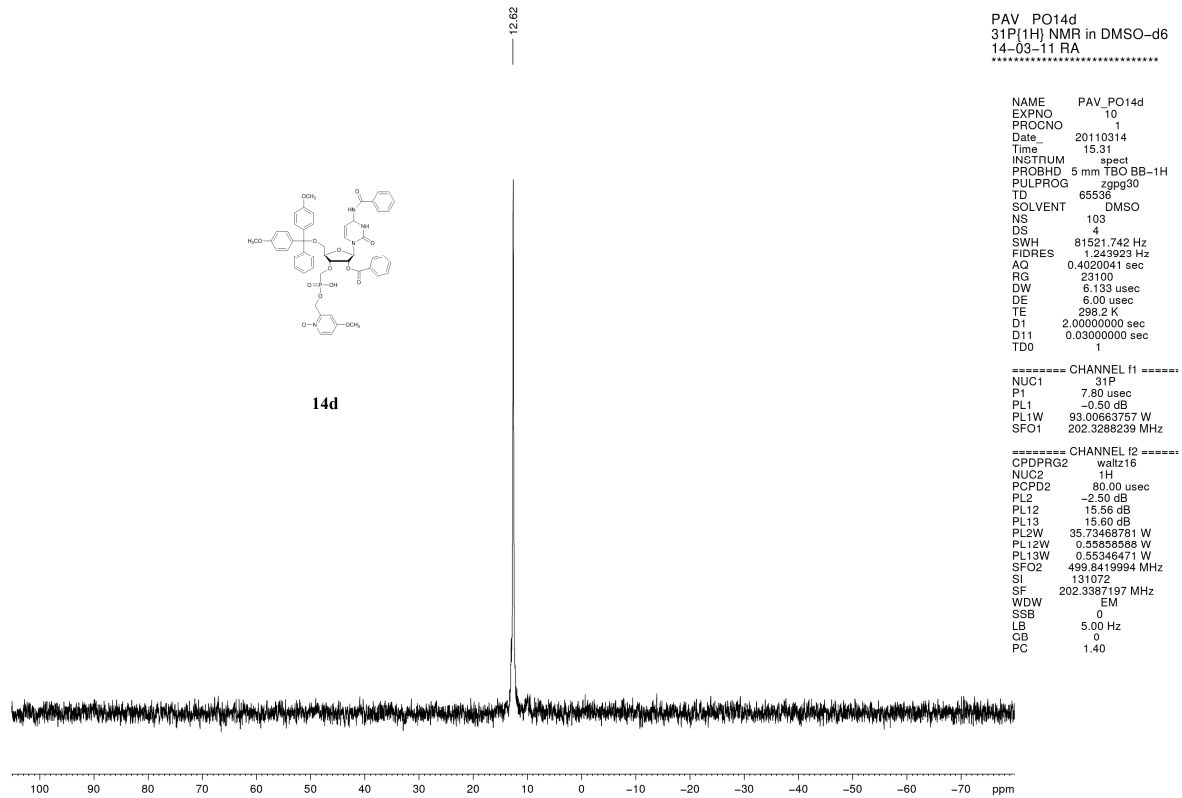


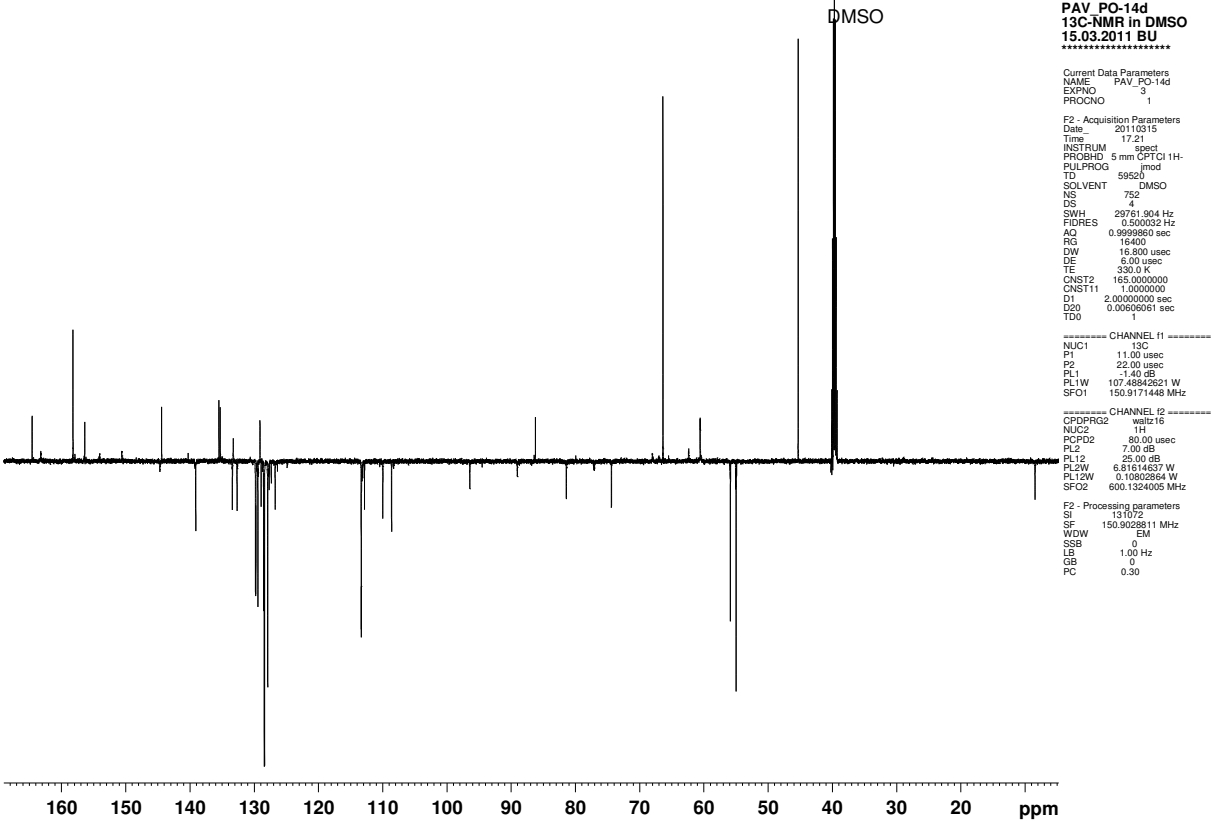


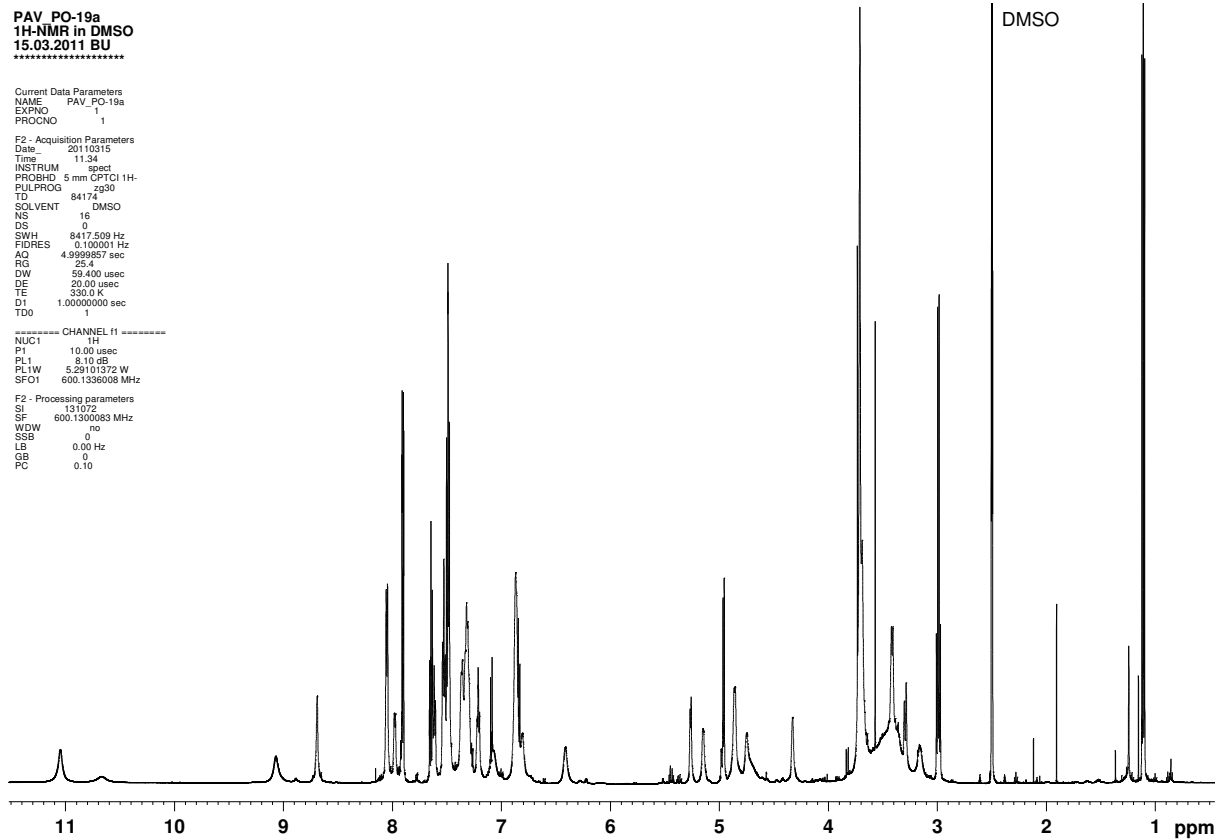
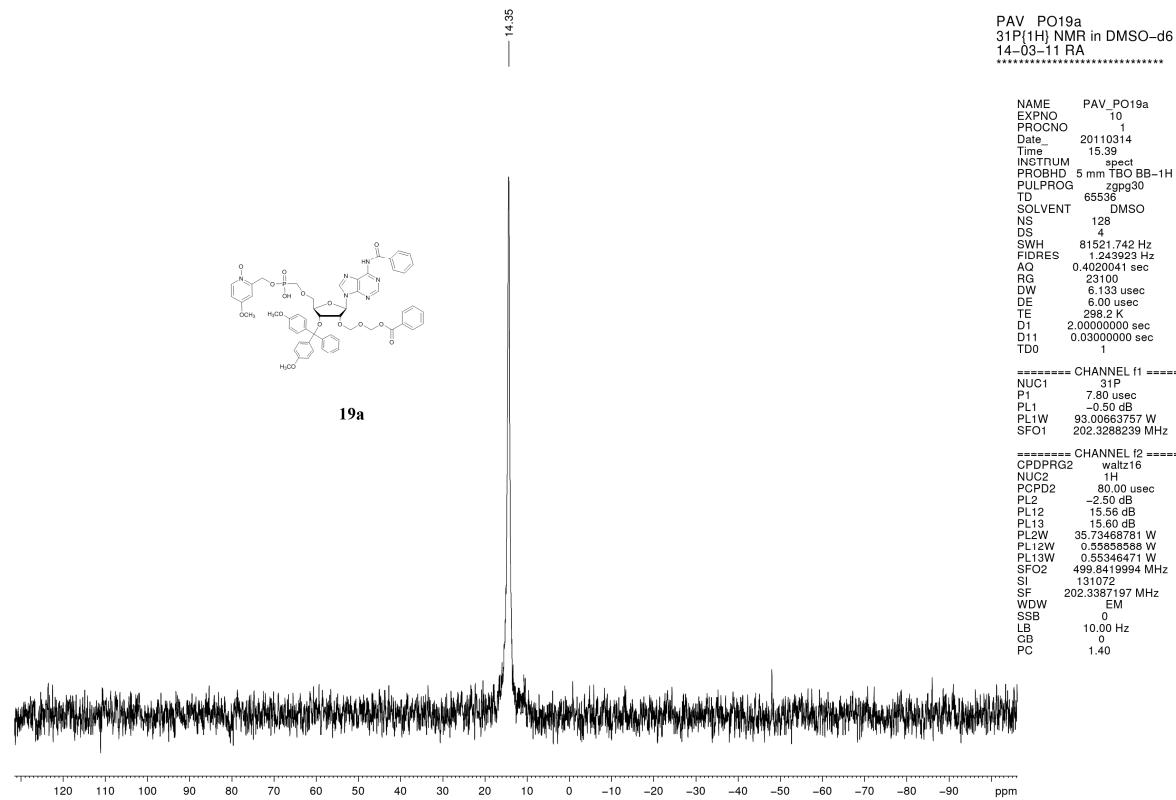


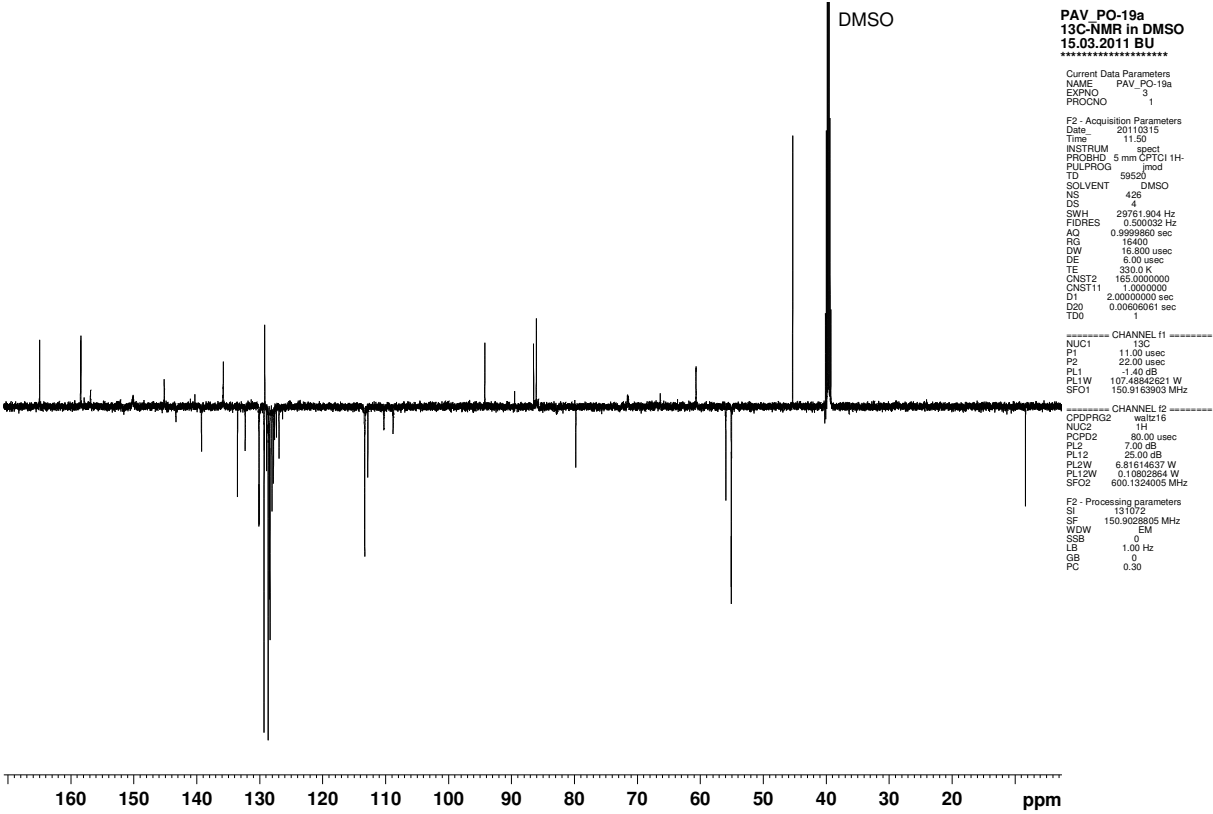


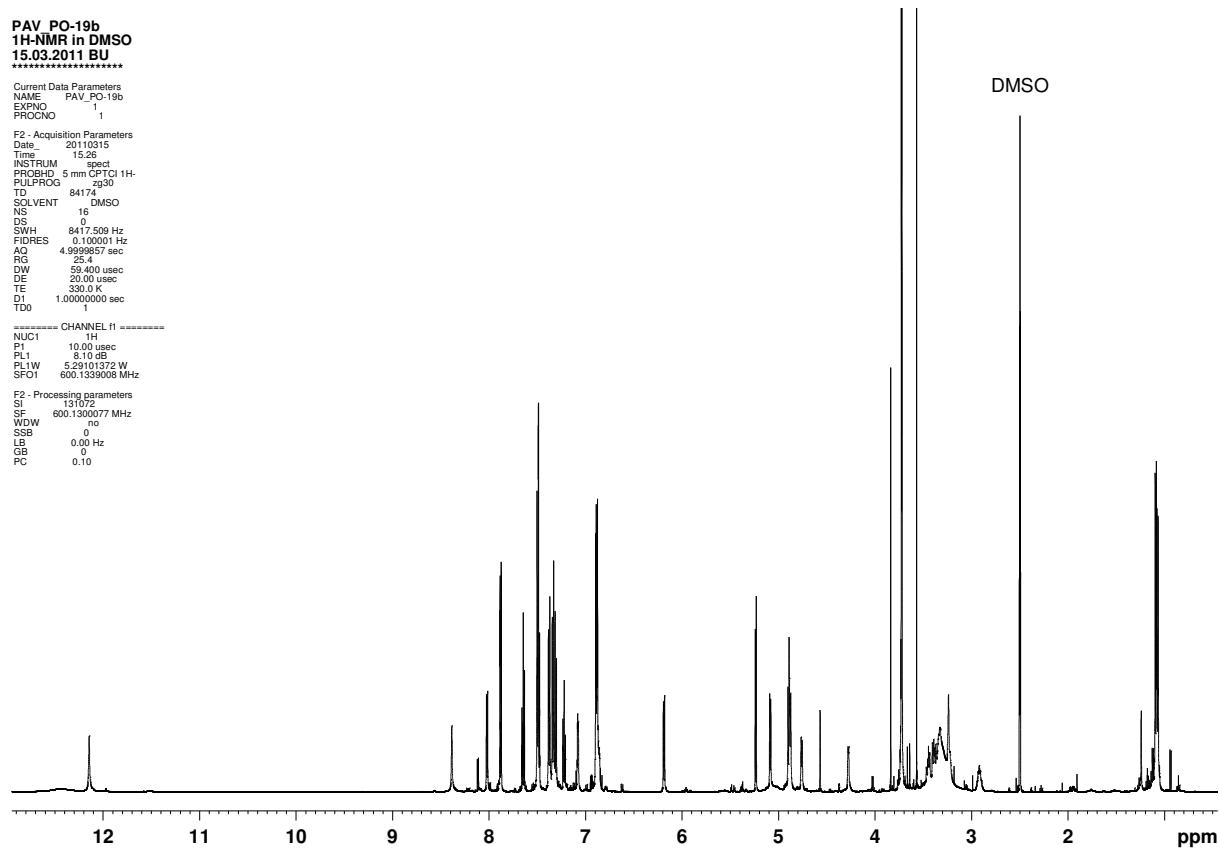
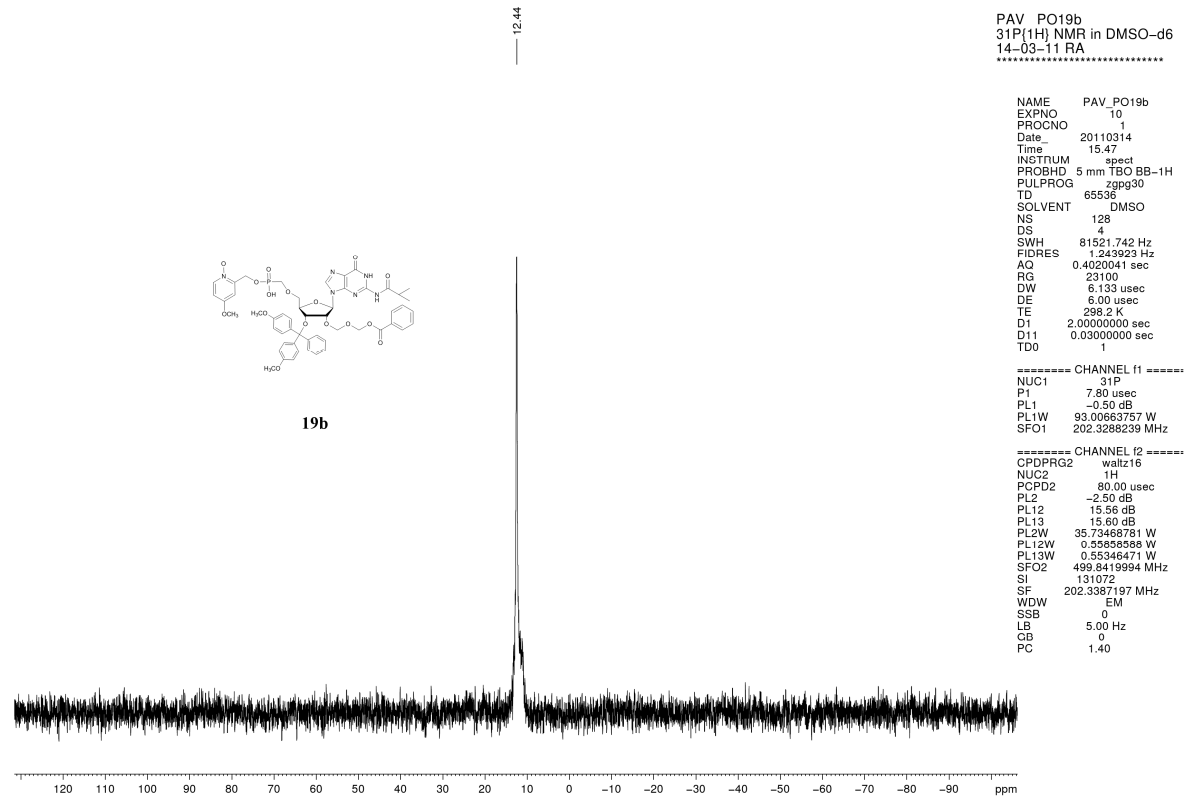
Impurity seen in ³¹P spectra of compound **14c** was characterized by LC-MS as bis(MOP)ester; ESI MS calcd for C₅₄H₅₆N₄O₁₈P (M+H)⁺ 1079.33, found 1079.38. We were not able to separate this impurity even after several chromatographies. Nevertheless, this impurity does not interfere solid phase synthesis.

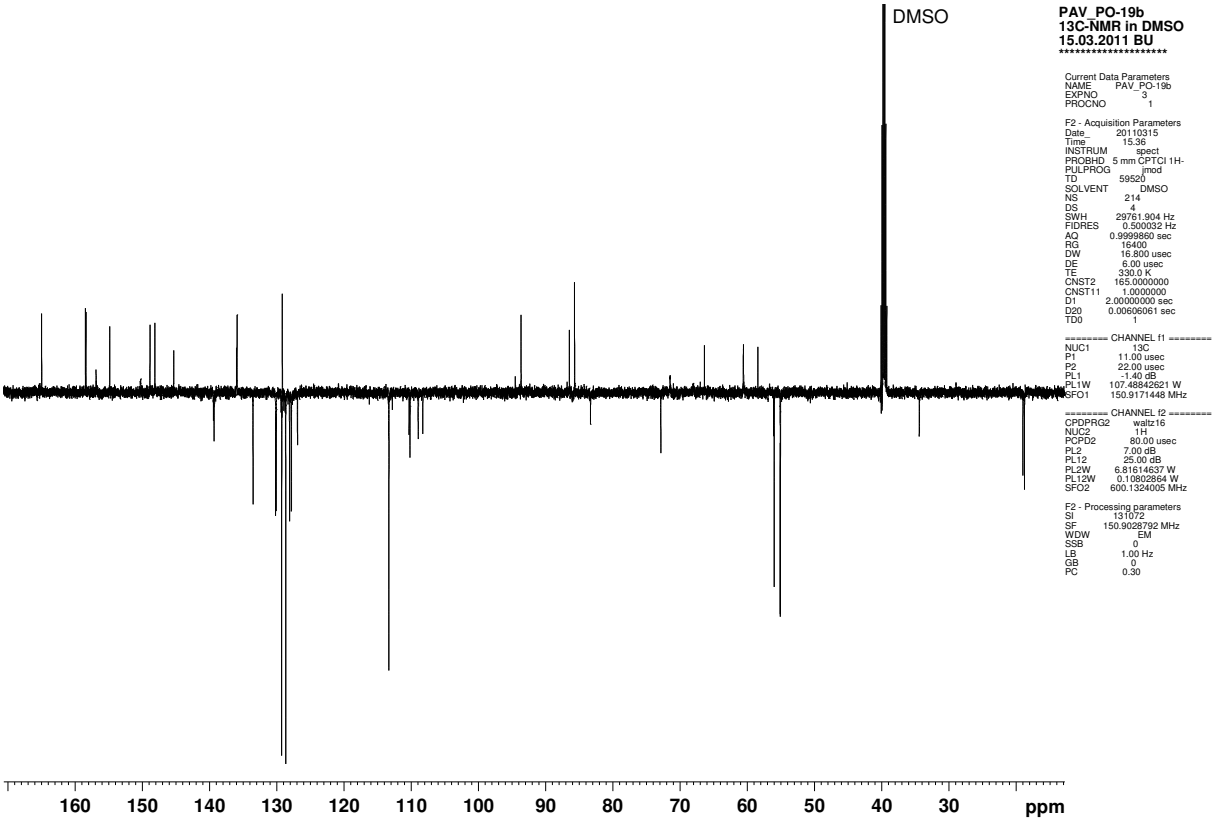


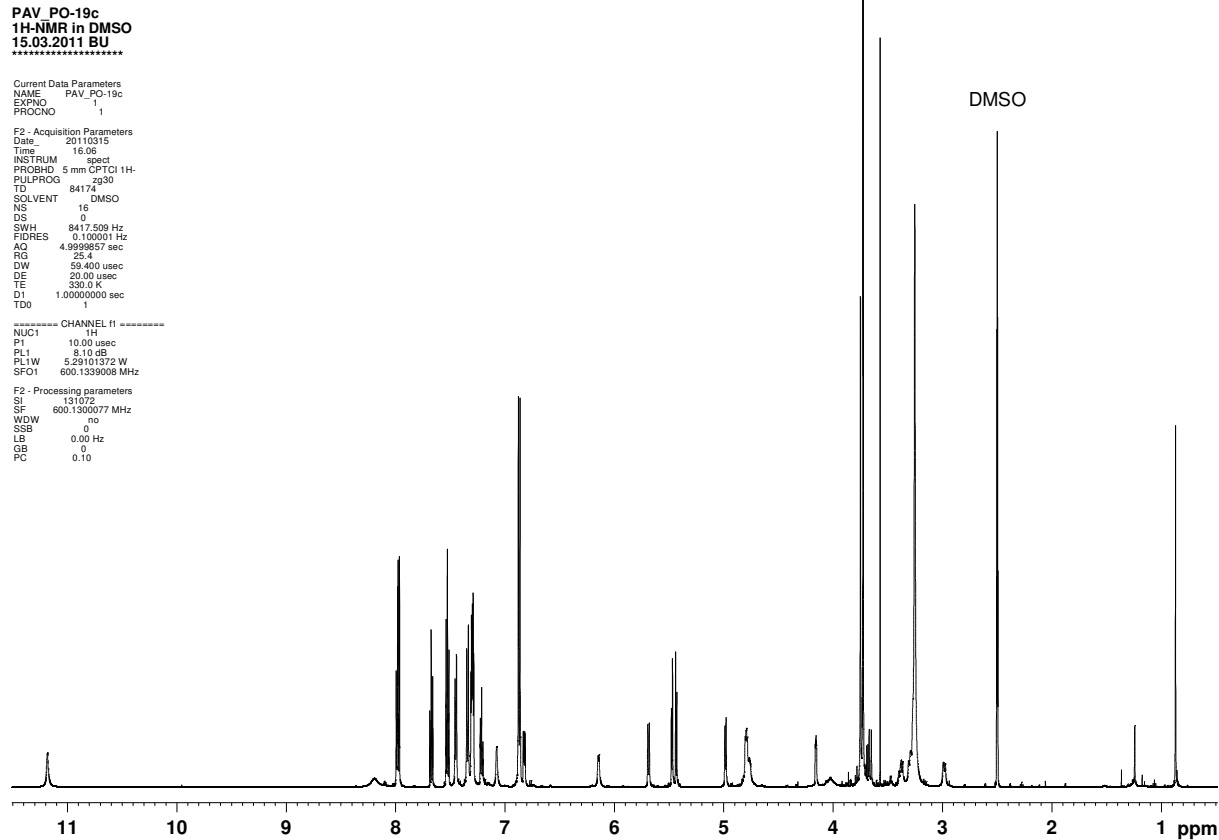
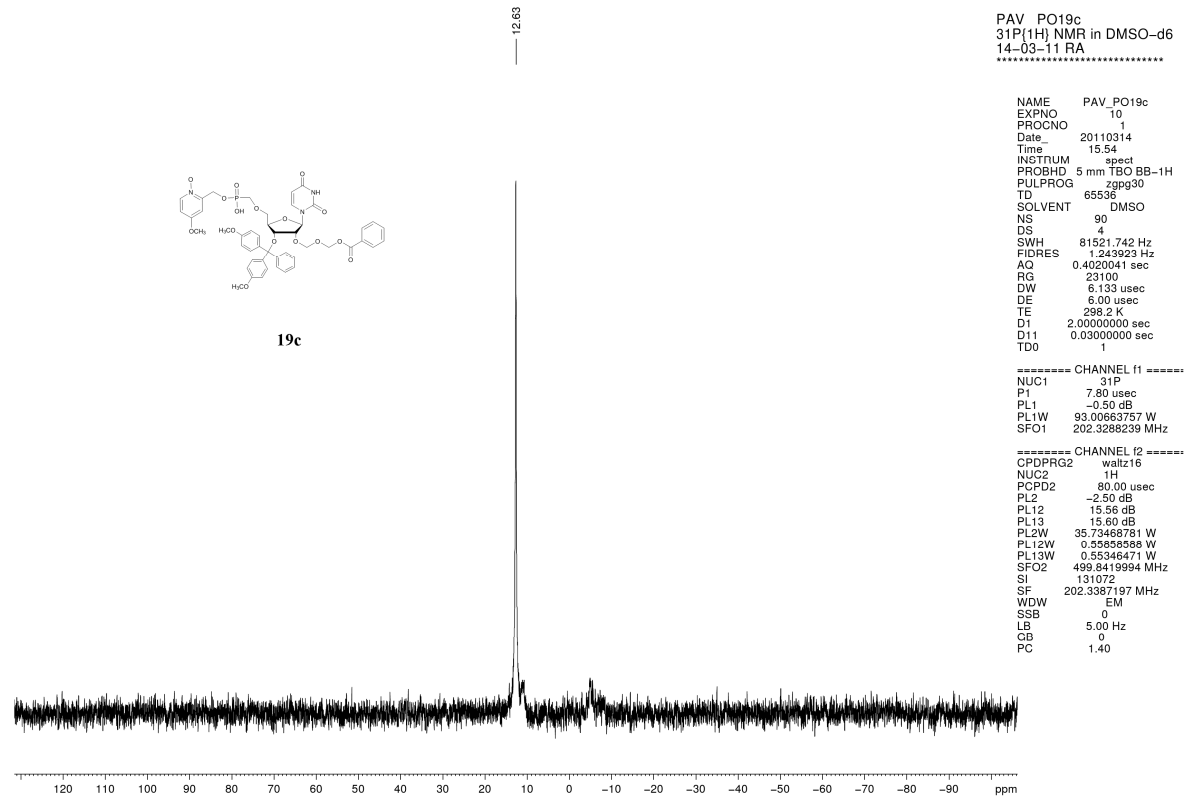


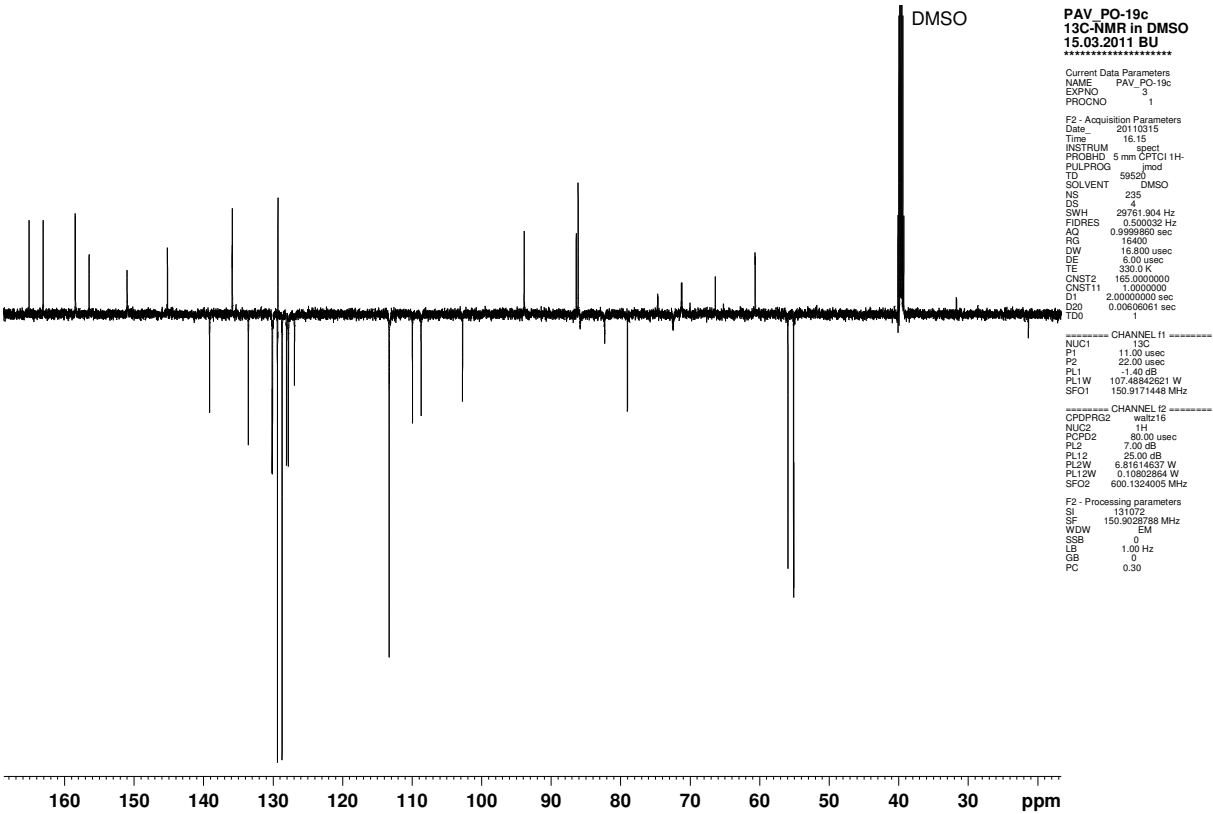


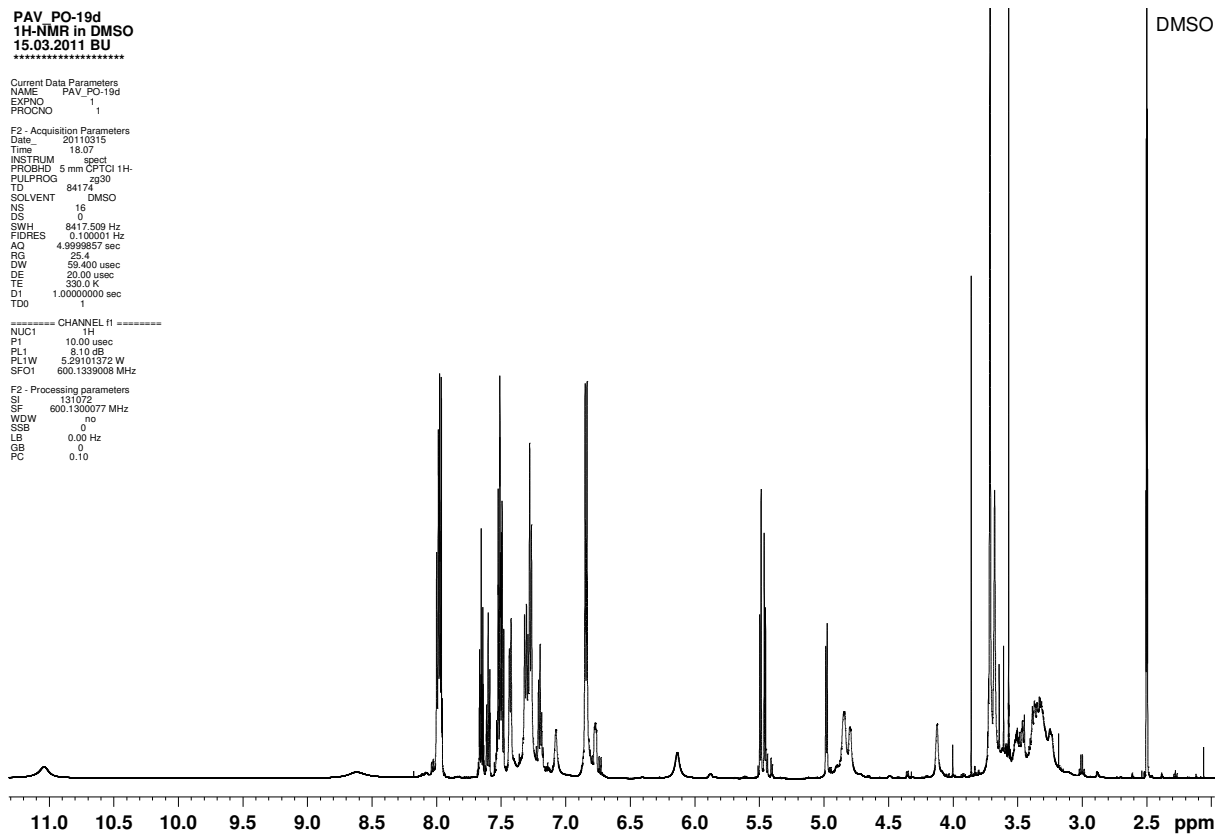
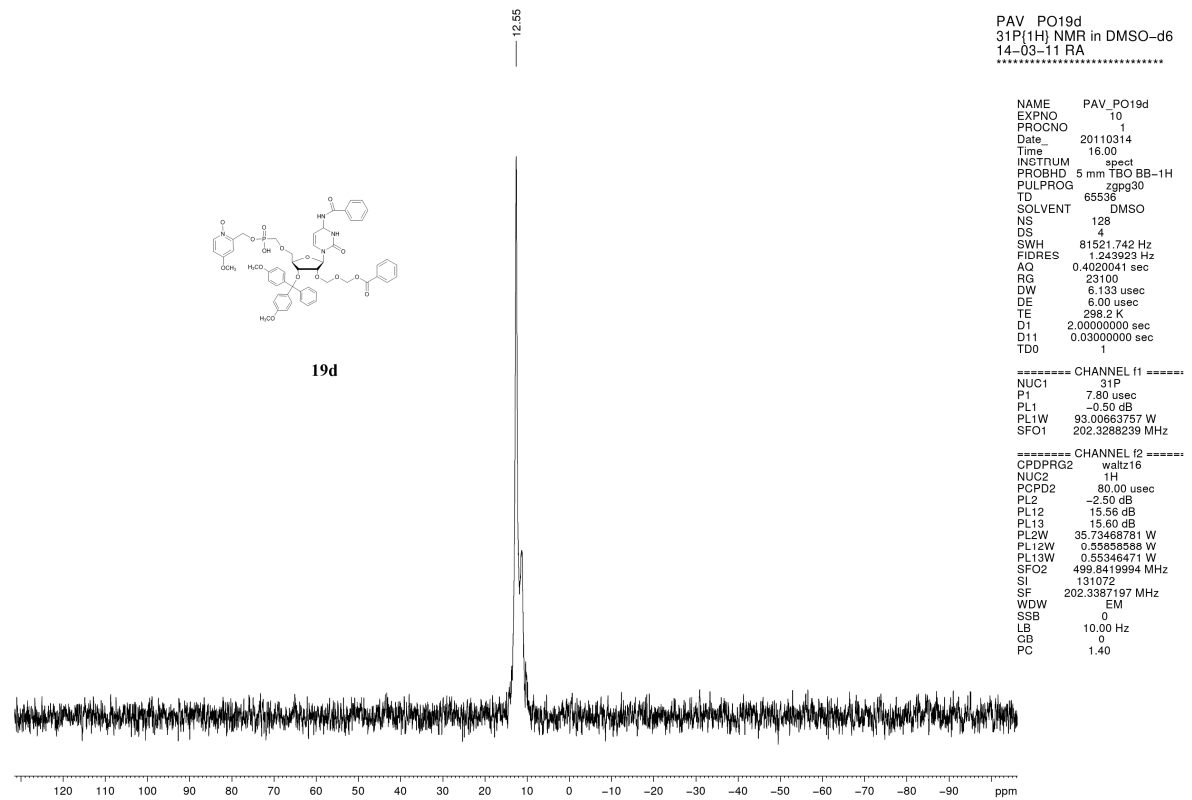


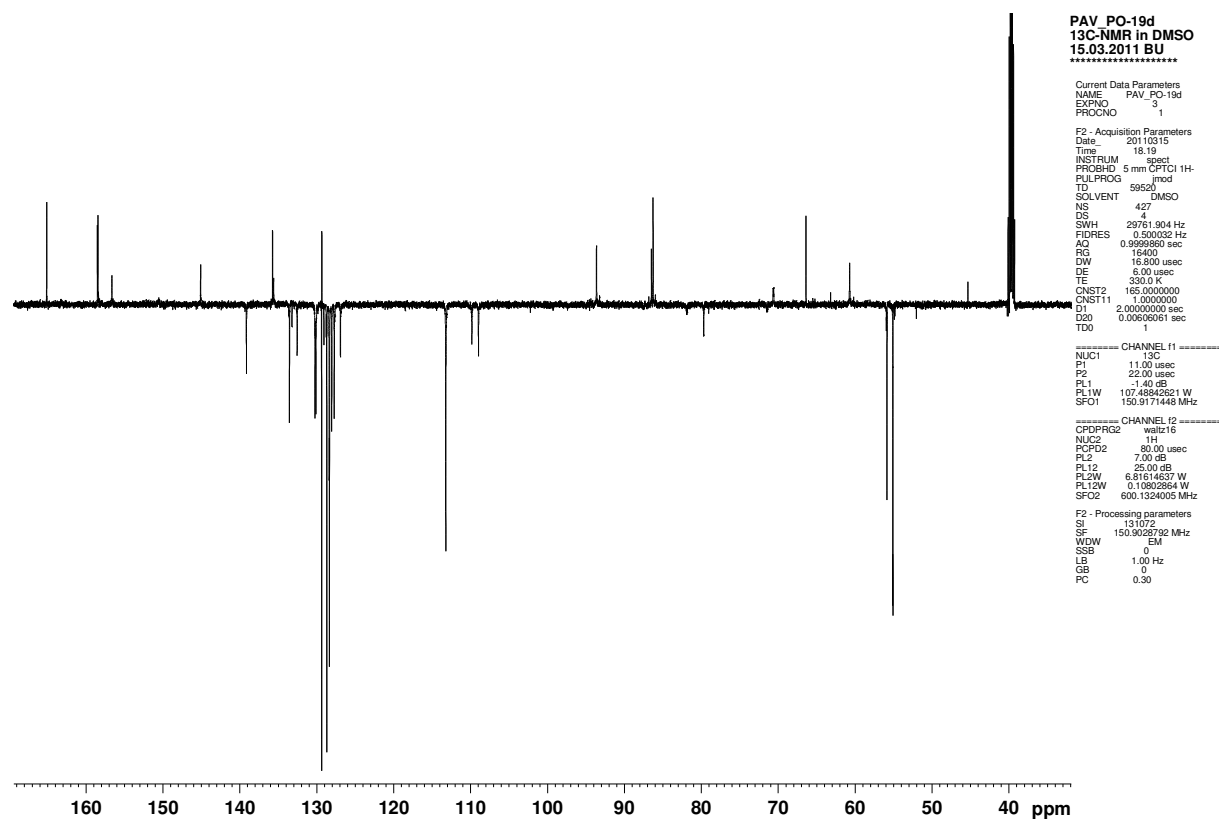












Impurity seen in ³¹P spectra of compound **19d** was characterized by LC-MS as bis(MOP)ester; ESI MS calcd for C₆₁H₆₃N₅O₁₈P (M+H)⁺ 1184.39, found 1184.36. We were not able to separate this impurity even after several chromatographies. Nevertheless, this impurity does not interfere solid phase synthesis.