**Catalysis by Ionic Liquid. A Green Protocol for the
Stereoselective Debromination of *vicinal*-Dibromides by
[pmIm]BF₄ under Microwave Irradiation**

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Supporting Information

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Spectroscopic (IR, ^1H NMR and ^{13}C NMR) Data of Products in Entries 14-25, Table 1

- entry 14.** Pale yellow solid, m.p. 61 °C; IR(KBr) 1656, 1600, 1577, 1512, 1263 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 3.81 (s, 3H), 6.90-6.94 (m, 2H), 7.41 (d, $J = 15.7$ Hz, 1H), 7.45-7.59 (m, 5H), 7.79 (d, $J = 15.7$ Hz, 1H), 8.00-8.03 (m, 2H); ^{13}C NMR (75 MHz) δ 55.2, 114.2 (2C), 119.5, 127.3, 128.2 (2C), 128.4 (2C), 130.1 (2C), 131.8, 138.3, 144.5, 161.5, 190.3.
- entry 15** Pale yellow solid, m.p. 108 °C; IR(KBr) 1658, 1606, 1589, 1573, 1018, 777 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 5.99 (s, 2H), 6.81 (d, $J = 8.0$ Hz, 1H), 7.07-7.14 (m, 2H), 7.34 (d, $J = 15.63$ Hz, 1H), 7.44-7.55 (m, 3H), 7.71 (d, $J = 15.63$ Hz, 1H), 7.96-7.99 (m, 2H); ^{13}C NMR (75 MHz) δ 101.6, 106.6, 108.6, 120.0, 125.2, 128.3 (2C), 128.5 (2C), 129.3, 132.6, 138.3, 144.6, 148.3, 149.8, 190.3.
- entry 16** Viscous brown liquid, IR(neat) 1658, 1600, 1222 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 6.43-6.45 (m, 1H), 6.67 (d, $J = 2.01$ Hz, 1H), 7.40-7.53 (m, 5H), 7.57 (d, $J = 15.4$ Hz, 1H), 7.99 (d, $J = 8.1$ Hz, 2H); ^{13}C NMR (75 MHz) δ 112.7, 116.3, 119.2, 128.4 (2C), 128.6 (2C), 130.7, 132.8, 138.1, 145.0, 151.6, 189.7.
- entry 17** Brown solid, m.p. 42-44 °C; IR(KBr) 1652, 1583, 1573, 1215 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 6.89 (t, $J = 4.9$ Hz, 1H), 7.12-7.28 (m, 3H), 7.30-7.41 (m, 3H), 7.76 (d, $J = 15.3$ Hz, 1H), 7.82 (d, $J = 7.32$ Hz, 2H); ^{13}C NMR (75 MHz) δ 120.7, 128.1 (3C), 128.6 (2C), 128.8, 132.0, 132.7, 137.1, 138.0, 140.3, 189.8.
- entry 18** Pale yellow solid, m.p. 82 °C; IR(KBr) 1662, 1602, 1575, 1446, 1348, 1006, 781 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 7.47-7.57 (m, 6H), 7.63 (d, $J = 15.3$ Hz, 1H), 7.85-7.91 (m, 3H), 8.06 (d, $J = 8.7$ Hz, 2H), 8.23 (d, $J = 8.1$ Hz, 1H), 8.66 (d, $J = 15.3$ Hz, 1H); ^{13}C NMR (75 MHz) δ 123.3, 124.5, 124.9, 125.2, 126.1, 126.8, 128.4 (2C), 128.5 (2C), 128.6, 130.6, 131.6, 132.2, 132.7, 133.5, 138.0, 141.6, 190.1.

- entry 19** Pale yellow liquid; IR(neat) 1674, 1600, 1575, 1508, 1255 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 4.37-4.41 (m, 2H), 5.09-5.26 (m, 2H), 5.79-5.88 (m, 1H), 6.71-6.80 (m, 2H), 7.10-7.26 (m, 2H), 7.35 (d, $J = 15.6$ Hz, 1H), 7.42-7.45 (m, 1H), 7.60 (d, $J = 15.6$ Hz, 1H), 7.71 (d, $J = 8.43$ Hz, 2H), 7.83 (d, $J = 8.76$ Hz, 2H); ^{13}C NMR (75 MHz) δ 68.9, 114.5 (2C), 118.8, 121.8, 127.5, 128.3, 128.4, 128.9, 130.3 (2C), 130.7, 132.3, 132.5, 137.5, 143.9, 162.8, 188.6.
- entry 20** Light red solid, m.p. 60 $^\circ\text{C}$; IR(KBr) 1483, 755 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 7.33-7.37 (m, 6H), 7.53-7.57 (m, 4H); ^{13}C NMR (75 MHz) δ 89.4 (2C), 123.3 (2C), 128.3 (2C), 128.4 (4C), 131.6 (4C).
- entry 21** Colorless solid, m.p. 112 $^\circ\text{C}$; IR(KBr) 1485, 756 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 7.34-7.36 (m, 3H), 7.46-7.49 (m, 2H), 7.56-7.59 (m, 3H), 7.78-7.81 (m, 3H), 8.05 (s, 1H); ^{13}C NMR (75 MHz) δ 87.7, 94.5, 121.0, 123.5, 125.4, 126.3, 126.6, 126.9, 128.5 (2C), 128.6, 128.7, 128.9, 130.5, 131.8 (2C), 133.3, 133.4.
- entry 22** Pale yellow solid, m.p. 114 $^\circ\text{C}$; IR(KBr) 1647, 1591, 1575, 1448, 1315, 696 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 7.49-7.54 (m, 4H), 7.66-7.69 (m, 2H), 8.14-8.17 (m, 4H); ^{13}C NMR (75 MHz) δ 85.7 (2C), 128.9 (4C), 129.7 (4C), 135.1 (2C), 135.7 (2C), 176.4 (2C).
- entry 23** Pale yellow solid, m.p. 123 $^\circ\text{C}$; IR(KBr) 1653, 1641, 1622, 1596, 1282, 696 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 7.43-7.59 (m, 5H), 7.81 (t, $J = 8.3$ Hz, 2H), 7.91 (d, $J = 7.7$ Hz, 1H), 8.04 (d, $J = 8.3$ Hz, 1H), 8.13 (d, $J = 7.4$ Hz, 2H), 8.64 (s, 1H); ^{13}C NMR (75 MHz) δ 85.6, 85.9, 123.1, 127.1, 127.8, 128.8 (3C), 129.5, 129.6 (2C), 129.8, 132.1, 133.2, 133.5, 135.0, 135.7, 136.3, 176.2, 176.5.
- entry 24** Pale yellow solid, m.p. 134 $^\circ\text{C}$; IR(KBr) 1643, 1629, 1595, 1577, 1494, 1448, 1271, 696 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 6.86 (d, $J = 16.3$ Hz, 1H), 7.34-7.39 (m, 3H), 7.45-7.55 (m, 4H), 7.59-7.64 (m, 1H), 7.83-7.88 (d, $J = 16.3$ Hz, 1H), 8.10-8.13 (d, $J = 8.0$ Hz, 2H); ^{13}C NMR (75 MHz) δ

84.4, 85.5, 127.5, 128.9 (3C), 129.0, 129.1 (2C), 129.7 (2C), 131.8, 133.4, 135.0, 135.7, 150.6, 176.4, 176.6.

entry 25

Colorless solid, m.p. 115 °C; IR(KBr) 1479, 1294, 1230, 1004, 800 cm^{-1} ; ^1H NMR (300 MHz, CDCl_3) δ 4.77 (s, 4H), 6.86 (d, $J = 8.8$ Hz, 2H), 7.08-7.12 (dd, $J_1 = 8.8$ Hz, $J_2 = 2.5$ Hz, 4H), 7.37 (d, $J = 2.5$ Hz, 2H); ^{13}C NMR (75 MHz) δ 56.9 (2C), 82.2 (2C), 115.0 (2C), 126.7 (2C), 127.2 (2C), 130.0 (4C), 151.5 (2C).

RJ-1881-13C (SR)

Current Data Param
NAME RJ-1881-
EXPNO
PROCNO

F2 - Acquisition Par
Date_ 500
Time 15
INSTRUM dp
PROBHD 5 mm Mult
PULPROG z
TD 86
SOLVENT CC
NS 1
DS
SWH 21645
FIDRES 0.250
AQ 1.9995
RG 6
DM 23
DE 4
TE 30
d11 0.0300
PL12 15
CPDPRG2 waltz
PCPD2 100
SF02 300.1314
NUC2
PL2 120
D1 1.00000
P1 6
DE 4
SF01 75.4772
NUC1
PL1 -6

F2 - Processing par
SI 66
SF 75.4677
WDW
SSB
LB
GB
PC 1

10 NMR plot paramete
CX 26
F1P 231
F1 1745
F2P -10
F2 -825
PPMCM 11.01
HZCM 831.36

RJ-1811-13C (SKD)

Current Data Param
NAME RJ1811-
EXPNO
PROCNO

F2 - Acquisition Par
Date_ 500
Time 15
INSTRUM 5 mm Mult
PROBHD
PULPROG z
TD 86
SOLVENT CC
NS 1
DS
SWH 21645
FIDRES 0.250
AQ 1.9995
RG 6
DM 23
DE 4
TE 30
d11 0.0300
PL12 15
CPDPRG2 waltz
PCPD2 100
SF02 300.1314
NUC2
PL2 120
D1 1.00000
P1 6
DE 4
SF01 75.4772
NUC1
PL1 -6

F2 - Processing par
SI 66
SF 75.4677
WDW
SSB
LB
GB
PC 1

10 NMR plot paramete
CX 26
F1P 209
F1 1581
F2P -9
F2 -694
PPMCM 9.94
HZCM 750.15

RJ-1921-13C (SR)

Current Data Param
NAME RJ-1921-
EXPNO
PROCNO

F2 - Acquisition Par
Date_ 500
Time 15
INSTRUM 500
PROBHD 5 mm Mult
PULPROG 2
TD 86
SOLVENT CC
NS 1
DS 21645
SWH 0.250
FIDRES 1.9995
AQ 6
RG 23
DE 4
TE 30
d11 0.0300
PL12 16
CPDPRG2 walt
PCPD2 100
SF02 300.1314
NUC2 12C
PL2 1.00000
D1 6
P1 4
DE 4
SF01 75.4772
NUC1
PL1 -6

F2 - Processing par
SI 62
SF 75.4677
WDW
SSB
LB
GB
PC 1

1D NMR plot paramete
CX 20
F1P 213
F1 16136
F2P -6
F2 -526
PRMCM 10.0
H2CM 757.5

RJ-1801-13C (SKD)

Current Data Param
NAME RJ1801-
EXPNO
PROCNO

F2 - Acquisition Par
Date_ 500
Time 11
INSTRUM 500
PROBHD 5 mm Mult
PULPROG 2
TD 86
SOLVENT CC
NS 1
DS 21645
SWH 0.250
FIDRES 1.9995
AQ 6
RG 23
DE 4
TE 30
d11 0.0300
PL12 16
CPDPRG2 walt
PCPD2 100
SF02 300.1314
NUC2 12C
PL2 1.00000
D1 6
P1 4
DE 4
SF01 75.4772
NUC1
PL1 -6

F2 - Processing par
SI 62
SF 75.4677
WDW
SSB
LB
GB
PC 1

1D NMR plot paramete
CX 20
F1P 200
F1 15130
F2P -9
F2 -711
PRMCM 9.54
H2CM 720.66

RJ-1861-13C (SR)

Current Data Parameter
NAME RJ-1861-
EXPNO
PROCNO

F2 - Acquisition Par
Date_ 500
Time 16
INSTRUM dp
PROBHD 5 mm Mult
PULPROG 2
TD 86
SOLVENT CL
NS 1
DS
SWH 21645
FIDRES 0.250
AQ 1.9995
RG 6
DN 23
DE 4
TE 30
D11 0.0300
PL12 16
CPDPRG2 wait
PCPD2 100
SF02 300.1314
NUC2
PL2 120
D1 1.00000
P1 6
DE 4
SF01 75.4776
NUC1
PL1 -6

F2 - Processing par
SI 60
SF 75.4677
WDW
SSB
LB C
GB
PC 1

1D NMR plot paramete
CX 26
F1P 197
F1 14894
F2D -7
F2 -580
PDMCM 9.36
HZCM 703.46

RJ-1931-13C (SR)

Current Data Parameter
NAME RJ-1861-
EXPNO
PROCNO

F2 - Acquisition Par
Date_ 500
Time 16
INSTRUM dp
PROBHD 5 mm Mult
PULPROG 2
TD 86
SOLVENT CL
NS 1
DS
SWH 21645
FIDRES 0.250
AQ 1.9995
RG 6
DN 23
DE 4
TE 30
D11 0.0300
PL12 16
CPDPRG2 wait
PCPD2 100
SF02 300.1314
NUC2
PL2 120
D1 1.00000
P1 6
DE 4
SF01 75.4776
NUC1
PL1 -6

F2 - Processing par
SI 60
SF 75.4677
WDW
SSB
LB C
GB
PC 1

1D NMR plot paramete
CX 26
F1P 206
F1 15594
F2D -7
F2 -550
PDMCM 9.72
HZCM 734.26

RJ-103E-13C (SR)

Current Data Parameters
 NAME RJ-103E-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 20.33
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgpg
 TD 109152
 SOLVENT CDCl3
 NS 1151
 DS 0
 SWH 22675.736 Hz
 FIDRES 0.207745 Hz
 AQ 2.4068515 sec
 RG 8192
 DW 22.050 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 16.00 dB
 CPDPRG2 waitz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.00000000 sec
 P1 10.50 usec
 DE 4.50 usec
 SF01 75.4752658 MHz
 NUC1 13C
 PL1 -1.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677485 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 205.917 ppm
 F1 15540.12 Hz
 F2P -7.807 ppm
 F2 -589.19 Hz
 PPMCM 9.71475 ppm/cm
 HZCM 733.15009 Hz/cm

RJ-142I-13C (SR)

Current Data Parameters
 NAME RJ-142I-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 16.46
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgpg
 TD 86576
 SOLVENT CDCl3
 NS 1877
 DS 0
 SWH 21645.021 Hz
 FIDRES 0.250012 Hz
 AQ 1.999557 sec
 RG 8192
 DW 23.100 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 16.00 dB
 CPDPRG2 waitz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.00000000 sec
 P1 6.70 usec
 DE 4.50 usec
 SF01 75.4772724 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677626 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 206.155 ppm
 F1 15550.06 Hz
 F2P -9.931 ppm
 F2 -749.46 Hz
 PPMCM 9.82209 ppm/cm
 HZCM 741.25122 Hz/cm

RJ-49I-13C (SR)

Current Data Parameters
 NAME RJ-49I-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 18.28
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgpg
 TD 86576
 SOLVENT CDCl3
 NS 1215
 DS 0
 SWH 21645.021 Hz
 FIDRES 0.250012 Hz
 AQ 1.9999557 sec
 RG 8192
 DM 23.100 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 16.00 dB
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.00000000 sec
 P1 6.70 usec
 DE 4.50 usec
 SF01 75.4772724 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677524 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 211.115 ppm
 F1 15932.36 Hz
 F2P -9.730 ppm
 F2 -734.31 Hz
 PPMCM 10.03840 ppm/cm
 HZCM 757.57574 Hz/cm

RJ-56I-13C (SR)

Current Data Parameters
 NAME RJ-56I-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 18.51
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgpg
 TD 45348
 SOLVENT CDCl3
 NS 2552
 DS 0
 SWH 22675.736 Hz
 FIDRES 0.500036 Hz
 AQ 0.9999734 sec
 RG 8192
 DM 22.050 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 16.00 dB
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1314795 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 2.00000000 sec
 P1 10.50 usec
 DE 4.50 usec
 SF01 75.4752658 MHz
 NUC1 13C
 PL1 -1.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677470 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 201.460 ppm
 F1 15203.76 Hz
 F2P -11.884 ppm
 F2 -896.86 Hz
 PPMCM 9.69747 ppm/cm
 HZCM 731.84625 Hz/cm

RJ-451-13C (SR)

Current Data Parameters
NAME RJ-451-13C
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 500000
Time 16.55
INSTRUM dpx300
PROBHD 5 mm Multinu
PULPROG zgdc
TD 86576
SOLVENT CDCl3
NS 1072
DS 0
SWH 21645.021 Hz
FIDRES 0.250012 Hz
AQ 1.9999557 sec
RG 8192
DM 23.100 usec
DE 4.50 usec
TE 300.0 K
d11 0.0300000 sec
PL12 16.00 dB
CPDPRG2 waltz16
PCPD2 100.00 usec
SFO2 300.1314106 MHz
NUC2 1H
PL2 120.00 dB
D1 1.00000000 sec
P1 6.70 usec
DE 4.50 usec
SFO1 75.4772724 MHz
NUC1 13C
PL1 -6.00 dB

F2 - Processing parameters

SI 65536
SF 75.4677511 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 22.00 cm
F1P 200.018 ppm
F1 15094.94 Hz
F2P -6.127 ppm
F2 -462.42 Hz
PPMCM 9.37026 ppm/cm
HZCM 707.15265 Hz/cm

RJ-1411-13C (SR)

Current Data Parameters

NAME RJ-1411-13C
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 500000
Time 18.17
INSTRUM dpx300
PROBHD 5 mm Multinu
PULPROG zgdc
TD 86576
SOLVENT CDCl3
NS 720
DS 0
SWH 21645.021 Hz
FIDRES 0.250012 Hz
AQ 1.9999557 sec
RG 8192
DM 23.100 usec
DE 4.50 usec
TE 300.0 K
d11 0.0300000 sec
PL12 16.00 dB
CPDPRG2 waltz16
PCPD2 100.00 usec
SFO2 300.1314106 MHz
NUC2 1H
PL2 120.00 dB
D1 1.00000000 sec
P1 6.70 usec
DE 4.50 usec
SFO1 75.4772724 MHz
NUC1 13C
PL1 -6.00 dB

F2 - Processing parameters

SI 65536
SF 75.4677626 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 22.00 cm
F1P 205.800 ppm
F1 15531.25 Hz
F2P -7.088 ppm
F2 -534.89 Hz
PPMCM 9.57670 ppm/cm
HZCM 730.27875 Hz/cm

SKG-67-13C (SR)

Current Data Parameters
 NAME SKG-67-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 15.44
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgdc
 TD 86576
 SOLVENT CDCl3
 NS 1089
 DS 0
 SWH 21645.021 Hz
 FIDRES 0.250012 Hz
 AQ 1.9999557 sec
 RG 8192
 DM 23.100 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 16.00 dB
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.00000000 sec
 P1 6.70 usec
 DE 4.50 usec
 SF01 75.4772724 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677511 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 213.263 ppm
 F1 16096.02 Hz
 F2P -8.278 ppm
 F2 -624.76 Hz
 PPMCM 10.07100 ppm/cm
 HZCM 760.03540 Hz/cm

RJ-107F-13C (SR)

Current Data Parameters
 NAME RJ-107F-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 15.49
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgdc
 TD 109152
 SOLVENT CDCl3
 NS 1049
 DS 0
 SWH 22675.736 Hz
 FIDRES 0.207745 Hz
 AQ 2.4068515 sec
 RG 8192
 DM 22.050 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 15.00 dB
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.00000000 sec
 P1 10.50 usec
 DE 4.50 usec
 SF01 75.4752658 MHz
 NUC1 13C
 PL1 -1.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677483 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 191.056 ppm
 F1 14418.35 Hz
 F2P -8.894 ppm
 F2 -671.21 Hz
 PPMCM 9.08863 ppm/cm
 HZCM 685.89880 Hz/cm

R3-501-13C (akm)

Current Data Parameters
 NAME R3-501-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 18.57
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgpgc
 TO 86576
 SOLVENT CDC13
 NS 1317
 DS 0
 SWH 21645.021 Hz
 FIDRES 0.250012 Hz
 AQ 1.9999557 sec
 RG 8192
 DM 23.100 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 16.00 dB
 CPDPRG2 waitz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.00000000 sec
 P1 6.70 usec
 DE 4.50 usec
 SF01 75.4772724 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677626 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 226.413 ppm
 F1 17086.89 Hz
 F2P -14.196 ppm
 F2 -1071.32 Hz
 PPMCM 10.93677 ppm/cm
 HZCM 825.37341 Hz/cm

RJ-601-13C (SR)

Current Data Parameters
 NAME RJ-601-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 500000
 Time 17.56
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgpgc
 TO 86576
 SOLVENT CDC13
 NS 1137
 DS 0
 SWH 21645.021 Hz
 FIDRES 0.250012 Hz
 AQ 1.9999557 sec
 RG 8192
 DM 23.100 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 16.00 dB
 CPDPRG2 waitz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.00000000 sec
 P1 6.70 usec
 DE 4.50 usec
 SF01 75.4772724 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters
 SI 65536
 SF 75.4677547 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 194.816 ppm
 F1 14702.32 Hz
 F2P -7.529 ppm
 F2 -568.19 Hz
 PPMCM 9.19749 ppm/cm
 HZCM 694.11395 Hz/cm

RJ371-13C (SKD)

Current Data Parameters
 NAME RJ371-13C
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

Date_ 500000
 Time 9.51
 INSTRUM 60x300
 PROBHD 5 mm Multinu
 PULPROG zgpg
 TD 66576
 SOLVENT CDCl3
 NS 1221
 DS 0
 SWH 21645.021 Hz
 FIDRES 0.250012 Hz
 AQ 1.999557 sec
 RG 8192
 DW 23.100 usec
 DE 4.50 usec
 TE 300.0 K
 d11 0.0300000 sec
 PL12 15.00 dB
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 300.1314106 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 1.0000000 sec
 P1 6.70 usec
 DE 4.50 usec
 SF01 75.4772724 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters

SI 65536
 SF 75.4677626 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

EX 22.00 cm
 F1P 167.061 ppm
 F1 12607.69 Hz
 F2P -9.931 ppm
 F2 -749.46 Hz
 PPMCM 8.04507 ppm/cm
 HZCM 607.14331 Hz/cm